



## Full wwPDB EM Validation Report ⓘ

May 21, 2024 – 06:38 AM EDT

PDB ID : 8SF7  
EMDB ID : EMD-40436  
Title : 48-nm doublet microtubule from Tetrahymena thermophila strain MEC17  
Authors : Black, C.S.; Kubo, S.; Yang, S.K.; Bui, K.H.  
Deposited on : 2023-04-10  
Resolution : 4.10 Å (reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev92  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36.2

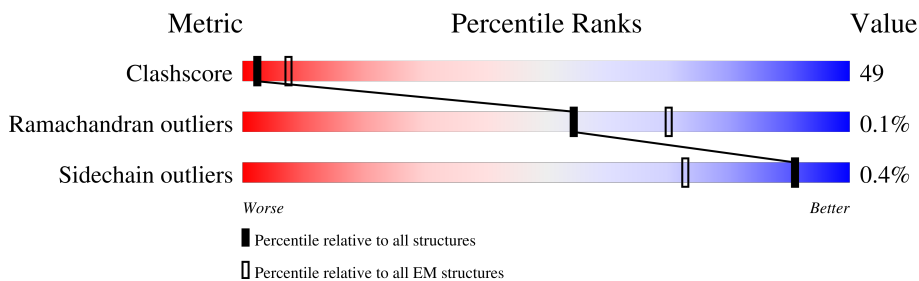
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	6H	518	12% (Poor fit) 20% (3+ outliers), 11% (2 outliers), 68% (1 or 0 outliers, or not modelled)
2	0A	236	31% (3+ outliers), 49% (2 outliers), 16% (1 outlier), 36% (0 outliers, or not modelled)
2	1A	236	23% (3+ outliers), 49% (2 outliers), 15% (1 outlier), 36% (0 outliers, or not modelled)
2	2A	236	16% (3+ outliers), 47% (2 outliers), 17% (1 outlier), 36% (0 outliers, or not modelled)
2	3A	236	22% (3+ outliers), 44% (2 outliers), 19% (1 outlier), 36% (0 outliers, or not modelled)
3	0B	329	42% (3+ outliers), 77% (2 outliers), 21% (1 outlier), 36% (0 outliers, or not modelled)
4	0C	156	20% (3+ outliers), 47% (2 outliers), 14% (1 outlier), 39% (0 outliers, or not modelled)
4	1C	156	22% (3+ outliers), 42% (2 outliers), 17% (1 outlier), 39% (0 outliers, or not modelled)

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Mol	Chain	Length	Quality of chain
5	0D	225	48% 68% 20% 10%
5	1D	225	31% 72% 17% 10%
5	2D	225	36% 69% 20% 10%
6	0E	191	68% 95% ..
6	1E	191	51% 97% ..
6	2E	191	44% 92% 7%
6	3E	191	72% 93% 6%
7	0F	219	39% 74% 20% 6%
8	0G	183	48% 67% 24% 8%
8	1G	183	40% 57% 15% 27%
9	0H	447	14% 23% 75%
9	1H	447	56% 85% 8% 6%
10	0N	492	21% 53% 43%
10	1N	492	33% 89% 5% 6%
10	2N	492	28% 54% 43%
11	0Q	195	20% 91% 5%
11	1Q	195	12% 90% 5% 5%
11	2Q	195	14% 90% 6% 5%
11	3Q	195	13% 86% 9% 5%
11	4Q	195	11% 92% 5%
11	5Q	195	11% 33% 62% 5%
11	6Q	195	21% 30% 64% 5%
12	0S	319	48% 82% 5% 12%
12	1S	319	24% 84% 7% 10%
12	2S	319	19% 83% 8% 10%


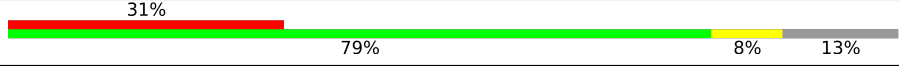

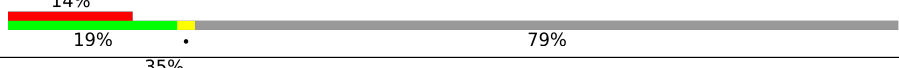
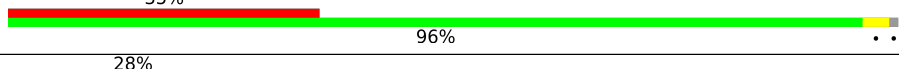
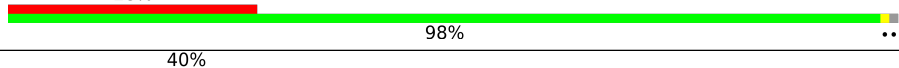




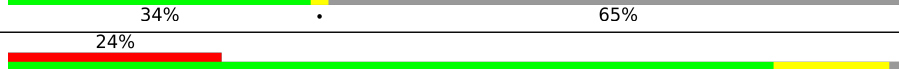

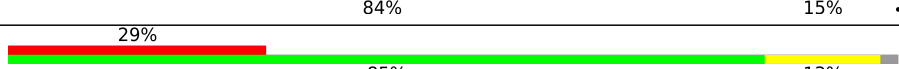
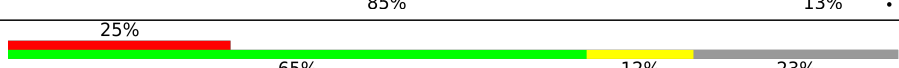

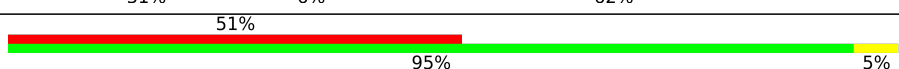
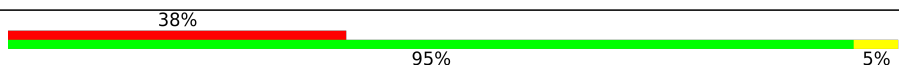
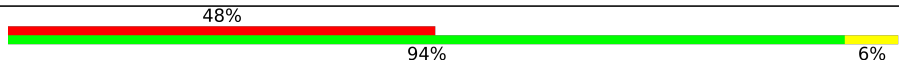
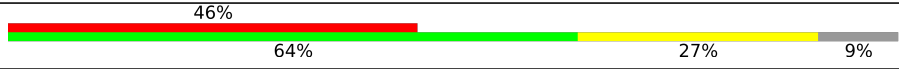
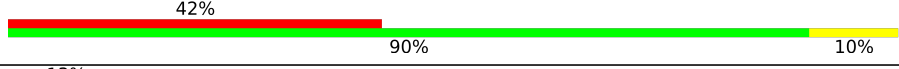





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Mol	Chain	Length	Quality of chain
12	3S	319	26% 83% 7% 10%
13	0T	298	54% 73% 24%
13	1T	298	32% 88% 8%
13	2T	298	27% 90% 6%
13	3T	298	30% 90% 5%
14	0U	656	50% 92% 7%
14	1U	656	25% 91% 7%
14	2U	656	23% 90% 7%
14	3U	656	43% 90% 7%
15	0V	269	50% 71% 7% 21%
15	1V	269	49% 80% 17% ..
15	2V	269	49% 80% 17% ..
15	3V	269	54% 82% 15% ..
16	0X	142	22% 63% 12% 25%
16	1X	142	24% 82% 18%
16	2X	142	18% 85% 15%
16	3X	142	25% 82% 18%
16	4X	142	25% 82% 17% ..
17	1B	498	43% 98%
17	2B	498	58% 56% 41%
17	3B	498	45% 59% 40%
18	1F	173	31% 61% 17% 21%
19	1I	263	32% 59% 13% 29%
20	1J	422	40% 69% 18% 12%
21	1K	489	29% 49% 6% 45%

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Mol	Chain	Length	Quality of chain
21	2K	489	
22	1L	940	
22	2L	940	
22	3L	940	
23	1M	372	
23	2M	372	
24	1O	494	
24	2O	494	
24	3O	494	
25	1P	507	
25	2P	507	
26	1R	516	
26	2R	516	
26	3R	516	
27	1W	280	
27	2W	280	
28	2C	300	
28	3C	300	
28	4C	300	
29	2F	96	
30	2G	99	
31	2H	229	
31	3H	229	
31	4H	229	
32	2I	293	

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Mol	Chain	Length	Quality of chain
32	3I	293	13% 18% 11% 70%
33	3D	237	66% 98%
34	4F	276	49% 56% 17% 28%
35	4R	613	20% 89% 10%
35	5R	613	23% 38% 62%
35	6R	613	54% 54% 42%
35	7R	613	45% 35% 64%
36	4S	249	15% 72% 24%
36	5S	249	14% 34% 41% 24%
37	5A	175	61% 75% 15% 10%
37	5B	175	51% 72% 17% 10%
37	5C	175	49% 75% 14% 10%
37	5D	175	51% 26% 31% 39%
38	5E	247	60% 57% 16% 27%
38	5F	247	55% 52% 32% 15%
38	5G	247	49% 34% 50% 15%
38	5H	247	40% 18% 34% 47%
39	5I	168	38% 32% 23% 45%
39	5J	168	40% 34% 30% 35%
39	5K	168	31% 11% 29% 58%
40	6F	145	52% 37% 52% 9%
41	6G	364	37% 22% 37% 41%
42	8L	385	44% 63% 37%
42	8N	385	50% 67% 26% 7%
43	8P	363	55% 69% 31%

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Mol	Chain	Length	Quality of chain
43	8R	363	58% 77% 22%
44	AA	449	13% 37% 61%
44	AC	449	7% 39% 58%
44	AE	449	7% 41% 57%
44	AG	449	7% 38% 59%
44	AI	449	8% 42% 56%
44	AK	449	5% 40% 57%
44	AM	449	13% 37% 61%
44	BA	449	32% 32% 64%
44	BC	449	8% 39% 57%
44	BE	449	10% 38% 58%
44	BG	449	9% 36% 59%
44	BI	449	9% 45% 51%
44	BK	449	8% 39% 57%
44	BM	449	14% 31% 65%
44	CA	449	52% 29% 67%
44	CC	449	27% 35% 62%
44	CE	449	20% 37% 59%
44	CG	449	20% 41% 56%
44	CI	449	14% 42% 55%
44	CK	449	17% 39% 58%
44	CM	449	36% 32% 65%
44	DA	449	63% 26% 70%
44	DC	449	36% 31% 66%
44	DE	449	24% 31% 65%

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Mol	Chain	Length	Quality of chain
44	DG	449	24% 36% 61%
44	DI	449	20% 30% 66%
44	DK	449	19% 35% 61%
44	DM	449	40% 31% 65%
44	EA	449	65% 35% 62%
44	EC	449	39% 34% 63%
44	EE	449	25% 30% 67%
44	EG	449	19% 34% 64%
44	EI	449	19% 34% 64%
44	EK	449	21% 38% 59%
44	EM	449	36% 29% 69%
44	FA	449	33% 31% 65%
44	FC	449	22% 29% 67%
44	FE	449	17% 39% 58%
44	FG	449	17% 35% 62%
44	FI	449	12% 34% 62%
44	FK	449	25% 30% 67%
44	FM	449	73% 36% 57% 6%
44	GA	449	34% 30% 65%
44	GC	449	17% 35% 61%
44	GE	449	12% 35% 60%
44	GG	449	15% 40% 56%
44	GI	449	12% 35% 61%
44	GK	449	26% 27% 71%
44	GM	449	53% 33% 63%

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Mol	Chain	Length	Quality of chain
44	HA	449	38% 34% 62%
44	HC	449	15% 36% 59%
44	HE	449	15% 38% 58%
44	HG	449	18% 39% 56%
44	HI	449	10% 39% 57%
44	HK	449	21% 35% 61%
44	HM	449	50% 30% 65%
44	IA	449	33% 35% 61%
44	IC	449	14% 40% 58%
44	IE	449	10% 35% 61%
44	IG	449	16% 37% 60%
44	II	449	12% 39% 58%
44	IK	449	13% 36% 60%
44	IM	449	40% 35% 61%
44	JA	449	14% 40% 56%
44	JC	449	11% 37% 59%
44	JE	449	9% 39% 59%
44	JG	449	12% 34% 63%
44	JI	449	10% 41% 56%
44	JK	449	14% 38% 60%
44	JM	449	55% 33% 63%
44	KA	449	16% 39% 58%
44	KC	449	9% 45% 51%
44	KE	449	8% 42% 54%
44	KG	449	8% 37% 60%

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Mol	Chain	Length	Quality of chain
44	KI	449	8% 37% 60%
44	KK	449	10% 39% 59%
44	KM	449	25% 29% 67%
44	LA	449	17% 34% 63%
44	LC	449	13% 39% 58%
44	LE	449	14% 42% 55%
44	LG	449	17% 34% 63%
44	LI	449	12% 36% 61%
44	LK	449	14% 65% 31%
44	LM	449	21% 36% 61%
44	MA	449	14% 43% 55%
44	MC	449	11% 39% 57%
44	ME	449	11% 44% 52%
44	MG	449	13% 33% 63%
44	MI	449	11% 43% 55%
44	MK	449	11% 37% 59%
44	MM	449	18% 32% 65%
44	NA	449	36% 33% 65%
44	NC	449	21% 34% 62%
44	NE	449	20% 37% 60%
44	NG	449	19% 35% 61%
44	NI	449	21% 40% 58%
44	NK	449	22% 29% 67%
44	NM	449	51% 32% 65%
44	OA	449	40% 31% 66%

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Mol	Chain	Length	Quality of chain
44	OC	449	26% 34% 63%
44	OE	449	20% 36% 60%
44	OG	449	22% 33% 63%
44	OI	449	22% 37% 60%
44	OK	449	31% 35% 61%
44	OM	449	55% 34% 63%
44	PA	449	51% 29% 67%
44	PC	449	32% 33% 63%
44	PE	449	26% 35% 60%
44	PG	449	24% 38% 57%
44	PI	449	26% 37% 57%
44	PK	449	27% 38% 57%
44	PM	449	55% 33% 62%
44	QA	449	66% 33% 62%
44	QC	449	36% 26% 70%
44	QE	449	32% 33% 63%
44	QG	449	27% 35% 61%
44	QI	449	29% 39% 56%
44	QK	449	30% 36% 60%
44	QM	449	53% 29% 66%
44	RA	449	70% 39% 57%
44	RC	449	39% 33% 62%
44	RE	449	32% 31% 64%
44	RG	449	27% 33% 62%
44	RI	449	28% 37% 59%

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Mol	Chain	Length	Quality of chain	
44	RK	449	28%	61%
44	RM	449	50%	67%
44	SA	449	63%	63%
44	SC	449	40%	65%
44	SE	449	32%	64%
44	SG	449	27%	63%
44	SI	449	25%	63%
44	SK	449	31%	62%
44	SM	449	51%	69%
44	TA	449	72%	65%
44	TC	449	52%	64%
44	TE	449	37%	70%
44	TG	449	34%	62%
44	TI	449	31%	65%
44	TK	449	38%	62%
44	TM	449	52%	67%
44	UA	449	76%	61%
44	UC	449	44%	69%
44	UE	449	35%	66%
44	UG	449	38%	63%
44	UI	449	33%	63%
44	UK	449	34%	64%
44	UM	449	47%	66%
44	VA	449	41%	65%
44	VC	449	29%	59%

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Mol	Chain	Length	Quality of chain
44	VE	449	
44	VG	449	
44	VI	449	
44	VK	449	
44	VM	449	
44	WA	449	
44	WC	449	
44	WE	449	
44	WG	449	
44	WI	449	
44	WK	449	
44	WM	449	
45	AB	443	
45	AD	443	
45	AF	443	
45	AH	443	
45	AJ	443	
45	AL	443	
45	AN	443	
45	BB	443	
45	BD	443	
45	BF	443	
45	BH	443	
45	BJ	443	
45	BL	443	

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Mol	Chain	Length	Quality of chain
45	BN	443	9% 30% 67%
45	CB	443	35% 26% 70%
45	CD	443	22% 36% 61%
45	CF	443	23% 37% 59%
45	CH	443	20% 41% 56%
45	CJ	443	16% 38% 59%
45	CL	443	23% 27% 70%
45	CN	443	51% 28% 69%
45	DB	443	44% 32% 65%
45	DD	443	29% 36% 60%
45	DF	443	24% 36% 61%
45	DH	443	22% 36% 61%
45	DJ	443	22% 31% 66%
45	DL	443	30% 32% 64%
45	DN	443	59% 31% 65%
45	EB	443	40% 26% 71%
45	ED	443	28% 29% 68%
45	EF	443	23% 28% 69%
45	EH	443	22% 33% 65%
45	EJ	443	20% 27% 70%
45	EL	443	31% 33% 64%
45	EN	443	61% 31% 65%
45	FB	443	43% 28% 69%
45	FD	443	25% 33% 65%
45	FF	443	17% 37% 60%

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Mol	Chain	Length	Quality of chain
45	FH	443	
45	FJ	443	
45	FL	443	
45	FN	443	
45	GB	443	
45	GD	443	
45	GF	443	
45	GH	443	
45	GJ	443	
45	GL	443	
45	GN	443	
45	HB	443	
45	HD	443	
45	HF	443	
45	HH	443	
45	HJ	443	
45	HL	443	
45	HN	443	
45	IB	443	
45	ID	443	
45	IF	443	
45	IH	443	
45	IJ	443	
45	IL	443	
45	IN	443	

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Mol	Chain	Length	Quality of chain
45	JB	443	
45	JD	443	
45	JF	443	
45	JH	443	
45	JJ	443	
45	JL	443	
45	JN	443	
45	KB	443	
45	KD	443	
45	KF	443	
45	KH	443	
45	KJ	443	
45	KL	443	
45	KN	443	
45	LB	443	
45	LD	443	
45	LF	443	
45	LH	443	
45	LJ	443	
45	LL	443	
45	LN	443	
45	MB	443	
45	MD	443	
45	MF	443	
45	MH	443	

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Mol	Chain	Length	Quality of chain
45	MJ	443	14% 35% 63%
45	ML	443	9% 39% 58%
45	MN	443	14% 36% 61%
45	NB	443	44% 30% 66% 5%
45	ND	443	29% 30% 67%
45	NF	443	17% 30% 65% 5%
45	NH	443	20% 34% 63%
45	NJ	443	16% 33% 63% 5%
45	NL	443	21% 32% 65%
45	NN	443	29% 29% 66% 5%
45	OB	443	53% 33% 64%
45	OD	443	36% 26% 70%
45	OF	443	24% 36% 61%
45	OH	443	23% 34% 63%
45	OJ	443	26% 33% 63%
45	OL	443	22% 32% 65%
45	ON	443	35% 31% 66%
45	PB	443	65% 35% 62%
45	PD	443	41% 31% 65%
45	PF	443	28% 34% 62%
45	PH	443	28% 35% 63%
45	PJ	443	28% 33% 64%
45	PL	443	31% 34% 63%
45	PN	443	41% 33% 64%
45	QB	443	47% 25% 72%

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Mol	Chain	Length	Quality of chain
45	QD	443	41% 32% 65%
45	QF	443	31% 37% 60%
45	QH	443	29% 31% 65%
45	QJ	443	35% 30% 67%
45	QL	443	46% 30% 67%
45	QN	443	69% 39% 56% 5%
45	RB	443	56% 30% 67%
45	RD	443	35% 29% 68%
45	RF	443	31% 34% 63%
45	RH	443	28% 32% 65%
45	RJ	443	30% 30% 67%
45	RL	443	47% 29% 68%
45	RN	443	73% 38% 59%
45	SB	443	51% 25% 72%
45	SD	443	36% 33% 64%
45	SF	443	30% 33% 64%
45	SH	443	29% 35% 62%
45	SJ	443	29% 32% 65%
45	SL	443	39% 27% 70%
45	SN	443	64% 35% 63%
45	TB	443	72% 33% 64%
45	TD	443	40% 28% 69%
45	TF	443	39% 26% 71%
45	TH	443	32% 30% 67%
45	TJ	443	33% 30% 67%

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Mol	Chain	Length	Quality of chain
45	TL	443	44% 28% 69%
45	TN	443	64% 35% 62%
45	UB	443	68% 37% 60%
45	UD	443	41% 31% 66%
45	UF	443	37% 33% 63%
45	UH	443	35% 27% 70%
45	UJ	443	31% 30% 67%
45	UL	443	43% 27% 70%
45	UN	443	61% 35% 62%
45	VB	443	56% 31% 66%
45	VD	443	32% 27% 69%
45	VF	443	24% 36% 61%
45	VH	443	24% 35% 62%
45	VJ	443	26% 32% 65%
45	VL	443	31% 28% 69%
45	VN	443	53% 32% 65%
45	WB	443	47% 32% 65%
45	WD	443	26% 30% 67%
45	WF	443	28% 38% 59%
45	WH	443	27% 39% 57%
45	WJ	443	28% 37% 60%
45	WL	443	21% 38% 59%
45	WN	443	43% 27% 70%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
46	GTP	CM	501	-	-	X	-
46	GTP	DA	501	-	-	X	-
46	GTP	DM	501	-	-	X	-
46	GTP	EC	501	-	-	X	-
46	GTP	EI	501	-	-	X	-
46	GTP	EM	501	-	-	X	-
46	GTP	HA	501	-	-	X	-
46	GTP	HI	501	-	-	X	-
46	GTP	IG	501	-	-	X	-
46	GTP	JM	501	-	-	X	-
46	GTP	PK	501	-	-	X	-
46	GTP	QA	501	-	-	X	-
46	GTP	QC	501	-	-	X	-
46	GTP	QG	501	-	-	X	-
46	GTP	QM	501	-	-	X	-
46	GTP	RI	501	-	-	X	-
46	GTP	RM	501	-	-	X	-
46	GTP	SA	501	-	-	X	-
46	GTP	TA	501	-	-	X	-
46	GTP	TC	501	-	-	X	-
46	GTP	TG	501	-	-	X	-
46	GTP	TM	501	-	-	X	-
46	GTP	UA	501	-	-	X	-
46	GTP	UG	501	-	-	X	-
46	GTP	UI	501	-	-	X	-
46	GTP	UK	501	-	-	X	-
46	GTP	VA	501	-	-	X	-
46	GTP	VM	501	-	-	X	-
46	GTP	WC	501	-	-	X	-
48	GDP	BF	502	-	-	X	-
48	GDP	CB	501	-	-	X	-
48	GDP	IF	501	-	-	X	-
48	GDP	QH	501	-	-	X	-
48	GDP	RJ	501	-	-	X	-
48	GDP	TD	501	-	-	X	-
48	GDP	TL	501	-	-	X	-
48	GDP	UJ	501	-	-	X	-

## 2 Entry composition

There are 48 unique types of molecules in this entry. The entry contains 1334198 atoms, of which 10347 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Nebulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	6H	166	1370	861	234	269	6	0	0

- Molecule 2 is a protein called RIB27A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	0A	152	1229	776	224	228	1	0	0
2	1A	152	1229	776	224	228	1	0	0
2	2A	152	1229	776	224	228	1	0	0
2	3A	152	1229	776	224	228	1	0	0

- Molecule 3 is a protein called RIB38.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	0B	321	2614	1633	472	503	6	0	0

- Molecule 4 is a protein called CFAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	0C	95	747	471	131	143	2	0	0
4	1C	95	747	471	131	143	2	0	0

- Molecule 5 is a protein called CFAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0D	202	Total	C	N	O	S	1	0
			1621	1019	293	307	2		
5	1D	202	Total	C	N	O	S	1	0
			1621	1019	293	307	2		
5	2D	202	Total	C	N	O	S	1	0
			1621	1019	293	307	2		

- Molecule 6 is a protein called RIB22.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
6	1E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
6	2E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
6	3E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		

- Molecule 7 is a protein called CFAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0F	206	Total	C	N	O	S	0	0
			1665	1048	300	314	3		

- Molecule 8 is a protein called CFAP107.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	0G	168	Total	C	N	O	S	0	0
			1378	872	237	265	4		
8	1G	133	Total	C	N	O	S	0	0
			1089	692	185	210	2		

- Molecule 9 is a protein called CFAP127.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	0H	111	Total	C	N	O	S	0	2
			949	591	172	183	3		
9	1H	418	Total	C	N	O	S	0	0
			3654	2250	680	710	14		

- Molecule 10 is a protein called CFAP161A.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	0N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		
10	1N	463	Total	C	N	O	S	0	0
			3805	2414	653	723	15		
10	2N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		

- Molecule 11 is a protein called CFAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	0Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	1Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	2Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	3Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	4Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	5Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
11	6Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

- Molecule 12 is a protein called Parkin co-regulated protein PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	0S	281	Total	C	N	O	S	0	1
			2227	1430	383	408	6		
12	1S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
12	2S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
12	3S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		

- Molecule 13 is a protein called IJ34.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	0T	226	Total	C	N	O	S	0	4
			1774	1138	305	322	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	1T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
13	2T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
13	3T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		

- Molecule 14 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	0U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
14	1U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
14	2U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
14	3U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		

- Molecule 15 is a protein called DNA polymerase delta C4-type zinc-finger protein.

Mol	Chain	Residues	Atoms					AltConf	Trace	
15	0V	212	Total	C	N	O	S	0	0	
			1750	1095	317	332	6			
15	1V	263	Total	C	H	N	O	S	0	0
			3379	1359	1211	388	412	9		
15	2V	263	Total	C	H	N	O	S	0	0
			3379	1359	1211	388	412	9		
15	3V	263	Total	C	H	N	O	S	0	0
			3379	1359	1211	388	412	9		

- Molecule 16 is a protein called RIB43A protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	0X	106	Total	C	N	O	S	0	0
			903	553	170	175	5		
16	1X	141	Total	C	N	O	S	0	0
			1205	736	229	234	6		
16	2X	141	Total	C	N	O	S	0	0
			1205	736	229	234	6		
16	3X	141	Total	C	N	O	S	0	0
			1205	736	229	234	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	4X	141	1205	736	229	234	6	0	0

- Molecule 17 is a protein called RIB57.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	1B	498	4066	2598	692	768	8	0	0
17	2B	295	2439	1553	416	464	6	0	0
17	3B	297	2449	1558	418	467	6	0	0

- Molecule 18 is a protein called CFAP182A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
18	1F	136	1093	696	184	208	5	0	0

- Molecule 19 is a protein called CFAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	1I	188	1546	951	285	306	4	0	0

- Molecule 20 is a protein called CFAP21A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	1J	370	3025	1901	534	579	11	0	0

- Molecule 21 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	1K	269	2335	1441	440	447	7	0	1
21	2K	278	2396	1473	443	473	7	0	2

- Molecule 22 is a protein called CFAP115.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	1L	820	Total	C	N	O	S	0	0
			6841	4357	1186	1280	18		
22	2L	620	Total	C	N	O	S	0	0
			5181	3304	902	963	12		
22	3L	200	Total	C	N	O	S	0	0
			1660	1053	284	317	6		

- Molecule 23 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace	
23	1M	369	Total	C	H	N	O	S	0	0
			5154	1910	2176	501	552	15		
23	2M	369	Total	C	H	N	O	S	0	0
			5169	1910	2191	501	552	15		

- Molecule 24 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace	
24	1O	235	Total	C	N	O	S	0	0	
			1983	1235	350	386	12			
24	2O	370	Total	C	N	O	S	0	0	
			3173	1948	595	617	13			
24	3O	269	Total	C	H	N	O	S	0	1
			4637	1404	2347	438	444	4		

- Molecule 25 is a protein called CFAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1P	344	Total	C	N	O	S	0	0
			2958	1831	552	567	8		
25	2P	179	Total	C	N	O	S	0	2
			1507	928	282	293	4		

- Molecule 26 is a protein called RIB72B.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	1R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
26	2R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
26	3R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		



- Molecule 27 is a protein called Protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	1W	216	Total	C	N	O	S	0	1
			1840	1113	365	353	9		
27	2W	105	Total	C	N	O	S	0	0
			890	550	171	164	5		

- Molecule 28 is a protein called RIB35.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	2C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
28	3C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
28	4C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		

- Molecule 29 is a protein called CFAP182B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	2F	87	Total	C	N	O	S	0	0
			746	469	136	137	4		

- Molecule 30 is a protein called Flagellar FliJ protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	2G	99	Total	C	N	O	S	0	0
			848	536	153	155	4		

- Molecule 31 is a protein called RIB27B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	2H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
31	3H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
31	4H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		

- Molecule 32 is a protein called STPG2.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	2I	136	Total	C	N	O	S	0	1
			1086	699	190	196	1		
32	3I	87	Total	C	N	O	S	0	0
			712	451	130	127	4		

- Molecule 33 is a protein called RIB26.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	3D	237	Total	C	N	O	S	0	0
			1835	1174	310	340	11		

- Molecule 34 is a protein called CFAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	4F	200	Total	C	N	O	S	0	0
			1622	1022	286	312	2		

- Molecule 35 is a protein called Flagellar microtugule protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	4R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
35	5R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
35	6R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
35	7R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		

- Molecule 36 is a protein called Parkin co-regulated protein PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	4S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		
36	5S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		

- Molecule 37 is a protein called OJ2.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	5A	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
37	5B	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
37	5C	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
37	5D	107	Total	C	N	O	S	0	1
			846	535	154	154	3		

- Molecule 38 is a protein called CFAP77A.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	5E	181	Total	C	N	O	S	0	1
			1500	949	272	274	5		
38	5F	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
38	5G	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
38	5H	132	Total	C	N	O	S	0	1
			1077	683	194	197	3		

- Molecule 39 is a protein called OJ3.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	5I	93	Total	C	N	O	S	0	1
			732	465	122	143	2		
39	5J	109	Total	C	N	O	S	0	0
			878	559	147	169	3		
39	5K	70	Total	C	N	O	S	0	0
			553	358	92	102	1		

- Molecule 40 is a protein called SB1.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	6F	132	Total	C	N	O	S	0	0
			1140	718	197	221	4		

- Molecule 41 is a protein called STPG1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	6G	216	Total	C	N	O	S	0	0
			1769	1128	303	333	5		

- Molecule 42 is a protein called CFAP112B.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	8L	385	Total	C	N	O	0	0
			1925	1155	385	385		
42	8N	358	Total	C	N	O	0	0
			1790	1074	358	358		

- Molecule 43 is a protein called CFAP112A.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	8P	363	Total	C	N	O	0	0
			1815	1089	363	363		
43	8R	361	Total	C	N	O	0	0
			2020	1269	361	390		

- Molecule 44 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	AA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	AM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	BA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BI	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	BM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	CA	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	CM	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	DA	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	DC	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
44	DE	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	DG	436	Total 3389	C 2143	N 576	O 648	S 22	0	0
44	DI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	DK	436	Total 3389	C 2143	N 576	O 648	S 22	0	0
44	DM	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	EA	439	Total 3397	C 2147	N 576	O 652	S 22	0	0
44	EC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	EE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	EG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	EI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	EK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	EM	439	Total 3408	C 2155	N 579	O 652	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	FA	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
44	FC	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	FE	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
44	FG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	FI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	FK	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	FM	420	Total 3239	C 2055	N 549	O 613	S 22	0	4
44	GA	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
44	GC	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
44	GE	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
44	GG	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
44	GI	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
44	GK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	GM	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
44	HA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	HM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	IA	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	IC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	IE	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	IG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	II	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	IK	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	IM	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	JA	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
44	JC	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
44	JE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	JG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	JI	439	Total 3404	C 2151	N 579	O 652	S 22	0	0
44	JK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	JM	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
44	KA	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
44	KC	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	KE	435	Total 3385	C 2141	N 575	O 647	S 22	0	0
44	KG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	KI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	KK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	KM	434	Total 3376	C 2135	N 573	O 646	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
44	LA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	LC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	LE	438	Total	C	N	O	S	0	0
			3400	2149	578	651	22		
44	LG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	LI	434	Total	C	N	O	S	0	0
			3381	2139	574	646	22		
44	LK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	LM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	MA	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
44	MC	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
44	ME	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
44	MG	437	Total	C	N	O	S	0	0
			3400	2151	577	650	22		
44	MI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	MK	436	Total	C	N	O	S	0	0
			3384	2139	575	648	22		
44	MM	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
44	NA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	NC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	NE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	NG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	NI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
44	NK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
44	NM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	OA	433	3368	2131	572	643	22	0	0
44	OC	433	3368	2131	572	643	22	0	0
44	OE	433	3368	2131	572	643	22	0	0
44	OG	433	3368	2131	572	643	22	0	0
44	OI	433	3368	2131	572	643	22	0	0
44	OK	433	3368	2131	572	643	22	0	0
44	OM	433	3368	2131	572	643	22	0	0
44	PA	429	3342	2118	568	634	22	0	0
44	PC	429	3342	2118	568	634	22	0	0
44	PE	429	3342	2118	568	634	22	0	0
44	PG	429	3342	2118	568	634	22	0	0
44	PI	429	3342	2118	568	634	22	0	0
44	PK	429	3342	2118	568	634	22	0	0
44	PM	429	3342	2118	568	634	22	0	0
44	QA	431	3356	2125	570	639	22	0	0
44	QC	431	3356	2125	570	639	22	0	0
44	QE	431	3356	2125	570	639	22	0	0
44	QG	431	3356	2125	570	639	22	0	0
44	QI	431	3356	2125	570	639	22	0	0
44	QK	431	3356	2125	570	639	22	0	0
44	QM	431	3356	2125	570	639	22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	RA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	RM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	SA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SG	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SI	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SK	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	SM	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TG	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TI	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TK	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	TM	430	Total 3350	C 2122	N 569	O 637	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	UA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
44	UC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	UE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	UG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	UI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	UK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	UM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	VA	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	VC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	VE	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	VG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	VI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
44	VK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	VM	433	Total 3365	C 2128	N 570	O 645	S 22	0	0
44	WA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	WC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	WE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	WG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	WI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
44	WK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
44	WM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0

- Molecule 45 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	AB	425	Total 3291	C 2066	N 563	O 634	S 28	0	1
45	AD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	AF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	AH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	AJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	AL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	AN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	BN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	CN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	DB	430	3366	2115	577	646	28	0	0
45	DD	430	3366	2115	577	646	28	0	0
45	DF	430	3366	2115	577	646	28	0	0
45	DH	430	3366	2115	577	646	28	0	0
45	DJ	430	3366	2115	577	646	28	0	0
45	DL	430	3366	2115	577	646	28	0	0
45	DN	430	3366	2115	577	646	28	0	0
45	EB	430	3366	2115	577	646	28	0	0
45	ED	430	3366	2115	577	646	28	0	0
45	EF	430	3366	2115	577	646	28	0	0
45	EH	430	3366	2115	577	646	28	0	0
45	EJ	430	3366	2115	577	646	28	0	0
45	EL	430	3366	2115	577	646	28	0	0
45	EN	430	3366	2115	577	646	28	0	0
45	FB	430	3366	2115	577	646	28	0	0
45	FD	430	3366	2115	577	646	28	0	0
45	FF	430	3366	2115	577	646	28	0	0
45	FH	430	3366	2115	577	646	28	0	0
45	FJ	430	3366	2115	577	646	28	0	0
45	FL	430	3366	2115	577	646	28	0	0
45	FN	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	GB	430	3366	2115	577	646	28	0	0
45	GD	430	3366	2115	577	646	28	0	0
45	GF	430	3366	2115	577	646	28	0	0
45	GH	430	3366	2115	577	646	28	0	0
45	GJ	430	3366	2115	577	646	28	0	0
45	GL	430	3366	2115	577	646	28	0	0
45	GN	430	3366	2115	577	646	28	0	0
45	HB	430	3366	2115	577	646	28	0	0
45	HD	430	3366	2115	577	646	28	0	0
45	HF	430	3366	2115	577	646	28	0	0
45	HH	430	3366	2115	577	646	28	0	0
45	HJ	430	3366	2115	577	646	28	0	0
45	HL	430	3366	2115	577	646	28	0	0
45	HN	430	3366	2115	577	646	28	0	0
45	IB	430	3366	2115	577	646	28	0	0
45	ID	430	3366	2115	577	646	28	0	0
45	IF	430	3366	2115	577	646	28	0	0
45	IH	430	3366	2115	577	646	28	0	0
45	IJ	430	3366	2115	577	646	28	0	0
45	IL	430	3366	2115	577	646	28	0	0
45	IN	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	JB	430	3366	2115	577	646	28	0	0
45	JD	430	3366	2115	577	646	28	0	0
45	JF	430	3366	2115	577	646	28	0	0
45	JH	430	3366	2115	577	646	28	0	0
45	JJ	430	3366	2115	577	646	28	0	0
45	JL	430	3366	2115	577	646	28	0	0
45	JN	430	3366	2115	577	646	28	0	0
45	KB	430	3366	2115	577	646	28	0	0
45	KD	430	3366	2115	577	646	28	0	0
45	KF	430	3366	2115	577	646	28	0	0
45	KH	430	3366	2115	577	646	28	0	0
45	KJ	430	3366	2115	577	646	28	0	0
45	KL	430	3366	2115	577	646	28	0	0
45	KN	430	3366	2115	577	646	28	0	0
45	LB	430	3366	2115	577	646	28	0	0
45	LD	430	3366	2115	577	646	28	0	0
45	LF	430	3366	2115	577	646	28	0	0
45	LH	430	3366	2115	577	646	28	0	0
45	LJ	430	3366	2115	577	646	28	0	0
45	LL	430	3366	2115	577	646	28	0	0
45	LN	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	MB	430	3366	2115	577	646	28	0	0
45	MD	430	3366	2115	577	646	28	0	0
45	MF	430	3366	2115	577	646	28	0	0
45	MH	430	3366	2115	577	646	28	0	0
45	MJ	430	3366	2115	577	646	28	0	0
45	ML	430	3366	2115	577	646	28	0	0
45	MN	430	3366	2115	577	646	28	0	0
45	NB	423	3304	2079	562	635	28	0	0
45	ND	430	3366	2115	577	646	28	0	0
45	NF	423	3304	2079	562	635	28	0	0
45	NH	430	3366	2115	577	646	28	0	0
45	NJ	423	3304	2079	562	635	28	0	0
45	NL	430	3366	2115	577	646	28	0	0
45	NN	423	3304	2079	562	635	28	0	0
45	OB	430	3366	2115	577	646	28	0	0
45	OD	430	3366	2115	577	646	28	0	0
45	OF	430	3366	2115	577	646	28	0	0
45	OH	430	3366	2115	577	646	28	0	0
45	OJ	430	3366	2115	577	646	28	0	0
45	OL	430	3366	2115	577	646	28	0	0
45	ON	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	PB	430	3351	2106	571	646	28	0	0
45	PD	430	3366	2115	577	646	28	0	0
45	PF	430	3366	2115	577	646	28	0	0
45	PH	430	3366	2115	577	646	28	0	0
45	PJ	430	3366	2115	577	646	28	0	0
45	PL	430	3366	2115	577	646	28	0	0
45	PN	430	3366	2115	577	646	28	0	0
45	QB	430	3366	2115	577	646	28	0	0
45	QD	430	3366	2115	577	646	28	0	0
45	QF	430	3366	2115	577	646	28	0	0
45	QH	430	3366	2115	577	646	28	0	0
45	QJ	430	3366	2115	577	646	28	0	0
45	QL	430	3366	2115	577	646	28	0	0
45	QN	420	3244	2045	551	620	28	0	3
45	RB	430	3366	2115	577	646	28	0	0
45	RD	430	3366	2115	577	646	28	0	0
45	RF	430	3366	2115	577	646	28	0	0
45	RH	430	3366	2115	577	646	28	0	0
45	RJ	430	3366	2115	577	646	28	0	0
45	RL	430	3366	2115	577	646	28	0	0
45	RN	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	SB	430	3366	2115	577	646	28	0	0
45	SD	430	3366	2115	577	646	28	0	0
45	SF	430	3366	2115	577	646	28	0	0
45	SH	430	3366	2115	577	646	28	0	0
45	SJ	430	3366	2115	577	646	28	0	0
45	SL	430	3366	2115	577	646	28	0	0
45	SN	430	3366	2115	577	646	28	0	0
45	TB	430	3366	2115	577	646	28	0	0
45	TD	430	3366	2115	577	646	28	0	0
45	TF	430	3366	2115	577	646	28	0	0
45	TH	430	3366	2115	577	646	28	0	0
45	TJ	430	3366	2115	577	646	28	0	0
45	TL	430	3366	2115	577	646	28	0	0
45	TN	430	3366	2115	577	646	28	0	0
45	UB	430	3366	2115	577	646	28	0	0
45	UD	430	3366	2115	577	646	28	0	0
45	UF	430	3366	2115	577	646	28	0	0
45	UH	430	3366	2115	577	646	28	0	0
45	UJ	430	3366	2115	577	646	28	0	0
45	UL	430	3366	2115	577	646	28	0	0
45	UN	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	VB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	VN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
45	WN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

- Molecule 46 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula:  $C_{10}H_{16}N_5O_{14}P_3$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	AA	1	Total 32	10	5	14	3	0
46	AC	1	Total 32	10	5	14	3	0
46	AE	1	Total 32	10	5	14	3	0
46	AG	1	Total 32	10	5	14	3	0
46	AI	1	Total 32	10	5	14	3	0
46	AK	1	Total 32	10	5	14	3	0
46	AM	1	Total 32	10	5	14	3	0
46	BA	1	Total 32	10	5	14	3	0
46	BC	1	Total 32	10	5	14	3	0
46	BE	1	Total 32	10	5	14	3	0
46	BG	1	Total 32	10	5	14	3	0
46	BI	1	Total 32	10	5	14	3	0
46	BK	1	Total 32	10	5	14	3	0
46	BM	1	Total 32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	CA	1	Total 32	C 10	N 5	O 14	P 3	0
46	CC	1	Total 32	C 10	N 5	O 14	P 3	0
46	CE	1	Total 32	C 10	N 5	O 14	P 3	0
46	CG	1	Total 32	C 10	N 5	O 14	P 3	0
46	CI	1	Total 32	C 10	N 5	O 14	P 3	0
46	CK	1	Total 32	C 10	N 5	O 14	P 3	0
46	CM	1	Total 32	C 10	N 5	O 14	P 3	0
46	DA	1	Total 32	C 10	N 5	O 14	P 3	0
46	DB	1	Total 32	C 10	N 5	O 14	P 3	0
46	DE	1	Total 32	C 10	N 5	O 14	P 3	0
46	DG	1	Total 32	C 10	N 5	O 14	P 3	0
46	DI	1	Total 32	C 10	N 5	O 14	P 3	0
46	DK	1	Total 32	C 10	N 5	O 14	P 3	0
46	DM	1	Total 32	C 10	N 5	O 14	P 3	0
46	EA	1	Total 32	C 10	N 5	O 14	P 3	0
46	EC	1	Total 32	C 10	N 5	O 14	P 3	0
46	EE	1	Total 32	C 10	N 5	O 14	P 3	0
46	EG	1	Total 32	C 10	N 5	O 14	P 3	0
46	EI	1	Total 32	C 10	N 5	O 14	P 3	0
46	EK	1	Total 32	C 10	N 5	O 14	P 3	0
46	EM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	FA	1	Total 32	C 10	N 5	O 14	P 3	0
46	FC	1	Total 32	C 10	N 5	O 14	P 3	0
46	FE	1	Total 32	C 10	N 5	O 14	P 3	0
46	FG	1	Total 32	C 10	N 5	O 14	P 3	0
46	FI	1	Total 32	C 10	N 5	O 14	P 3	0
46	FK	1	Total 32	C 10	N 5	O 14	P 3	0
46	FM	1	Total 32	C 10	N 5	O 14	P 3	0
46	GB	1	Total 32	C 10	N 5	O 14	P 3	0
46	GD	1	Total 32	C 10	N 5	O 14	P 3	0
46	GE	1	Total 32	C 10	N 5	O 14	P 3	0
46	GG	1	Total 32	C 10	N 5	O 14	P 3	0
46	GI	1	Total 32	C 10	N 5	O 14	P 3	0
46	GL	1	Total 32	C 10	N 5	O 14	P 3	0
46	GM	1	Total 32	C 10	N 5	O 14	P 3	0
46	HA	1	Total 32	C 10	N 5	O 14	P 3	0
46	HC	1	Total 32	C 10	N 5	O 14	P 3	0
46	HE	1	Total 32	C 10	N 5	O 14	P 3	0
46	HG	1	Total 32	C 10	N 5	O 14	P 3	0
46	HI	1	Total 32	C 10	N 5	O 14	P 3	0
46	HK	1	Total 32	C 10	N 5	O 14	P 3	0
46	HM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	IA	1	Total 32	C 10	N 5	O 14	P 3	0
46	ID	1	Total 32	C 10	N 5	O 14	P 3	0
46	IE	1	Total 32	C 10	N 5	O 14	P 3	0
46	IG	1	Total 32	C 10	N 5	O 14	P 3	0
46	II	1	Total 32	C 10	N 5	O 14	P 3	0
46	IK	1	Total 32	C 10	N 5	O 14	P 3	0
46	IM	1	Total 32	C 10	N 5	O 14	P 3	0
46	JA	1	Total 32	C 10	N 5	O 14	P 3	0
46	JC	1	Total 32	C 10	N 5	O 14	P 3	0
46	JE	1	Total 32	C 10	N 5	O 14	P 3	0
46	JG	1	Total 32	C 10	N 5	O 14	P 3	0
46	JI	1	Total 32	C 10	N 5	O 14	P 3	0
46	JK	1	Total 32	C 10	N 5	O 14	P 3	0
46	JM	1	Total 32	C 10	N 5	O 14	P 3	0
46	KA	1	Total 32	C 10	N 5	O 14	P 3	0
46	KC	1	Total 32	C 10	N 5	O 14	P 3	0
46	KE	1	Total 32	C 10	N 5	O 14	P 3	0
46	KG	1	Total 32	C 10	N 5	O 14	P 3	0
46	KJ	1	Total 32	C 10	N 5	O 14	P 3	0
46	KK	1	Total 32	C 10	N 5	O 14	P 3	0
46	KM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	LB	1	Total 32	C 10	N 5	O 14	P 3	0
46	LC	1	Total 32	C 10	N 5	O 14	P 3	0
46	LE	1	Total 32	C 10	N 5	O 14	P 3	0
46	LG	1	Total 32	C 10	N 5	O 14	P 3	0
46	LI	1	Total 32	C 10	N 5	O 14	P 3	0
46	LK	1	Total 32	C 10	N 5	O 14	P 3	0
46	LM	1	Total 32	C 10	N 5	O 14	P 3	0
46	MA	1	Total 32	C 10	N 5	O 14	P 3	0
46	MC	1	Total 32	C 10	N 5	O 14	P 3	0
46	ME	1	Total 32	C 10	N 5	O 14	P 3	0
46	MG	1	Total 32	C 10	N 5	O 14	P 3	0
46	MI	1	Total 32	C 10	N 5	O 14	P 3	0
46	MK	1	Total 32	C 10	N 5	O 14	P 3	0
46	MM	1	Total 32	C 10	N 5	O 14	P 3	0
46	NA	1	Total 32	C 10	N 5	O 14	P 3	0
46	NC	1	Total 32	C 10	N 5	O 14	P 3	0
46	NE	1	Total 32	C 10	N 5	O 14	P 3	0
46	NG	1	Total 32	C 10	N 5	O 14	P 3	0
46	NI	1	Total 32	C 10	N 5	O 14	P 3	0
46	NK	1	Total 32	C 10	N 5	O 14	P 3	0
46	NM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	OA	1	Total 32	C 10	N 5	O 14	P 3	0
46	OC	1	Total 32	C 10	N 5	O 14	P 3	0
46	OE	1	Total 32	C 10	N 5	O 14	P 3	0
46	OG	1	Total 32	C 10	N 5	O 14	P 3	0
46	OI	1	Total 32	C 10	N 5	O 14	P 3	0
46	OL	1	Total 32	C 10	N 5	O 14	P 3	0
46	OM	1	Total 32	C 10	N 5	O 14	P 3	0
46	PA	1	Total 32	C 10	N 5	O 14	P 3	0
46	PC	1	Total 32	C 10	N 5	O 14	P 3	0
46	PE	1	Total 32	C 10	N 5	O 14	P 3	0
46	PG	1	Total 32	C 10	N 5	O 14	P 3	0
46	PI	1	Total 32	C 10	N 5	O 14	P 3	0
46	PK	1	Total 32	C 10	N 5	O 14	P 3	0
46	PM	1	Total 32	C 10	N 5	O 14	P 3	0
46	QA	1	Total 32	C 10	N 5	O 14	P 3	0
46	QC	1	Total 32	C 10	N 5	O 14	P 3	0
46	QE	1	Total 32	C 10	N 5	O 14	P 3	0
46	QG	1	Total 32	C 10	N 5	O 14	P 3	0
46	QI	1	Total 32	C 10	N 5	O 14	P 3	0
46	QK	1	Total 32	C 10	N 5	O 14	P 3	0
46	QM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	RA	1	Total 32	C 10	N 5	O 14	P 3	0
46	RC	1	Total 32	C 10	N 5	O 14	P 3	0
46	RE	1	Total 32	C 10	N 5	O 14	P 3	0
46	RG	1	Total 32	C 10	N 5	O 14	P 3	0
46	RI	1	Total 32	C 10	N 5	O 14	P 3	0
46	RK	1	Total 32	C 10	N 5	O 14	P 3	0
46	RM	1	Total 32	C 10	N 5	O 14	P 3	0
46	SA	1	Total 32	C 10	N 5	O 14	P 3	0
46	SC	1	Total 32	C 10	N 5	O 14	P 3	0
46	SE	1	Total 32	C 10	N 5	O 14	P 3	0
46	SG	1	Total 32	C 10	N 5	O 14	P 3	0
46	SI	1	Total 32	C 10	N 5	O 14	P 3	0
46	SK	1	Total 32	C 10	N 5	O 14	P 3	0
46	SM	1	Total 32	C 10	N 5	O 14	P 3	0
46	TA	1	Total 32	C 10	N 5	O 14	P 3	0
46	TC	1	Total 32	C 10	N 5	O 14	P 3	0
46	TE	1	Total 32	C 10	N 5	O 14	P 3	0
46	TG	1	Total 32	C 10	N 5	O 14	P 3	0
46	TI	1	Total 32	C 10	N 5	O 14	P 3	0
46	TK	1	Total 32	C 10	N 5	O 14	P 3	0
46	TM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
46	UA	1	Total 32	C 10	N 5	O 14	P 3	0
46	UC	1	Total 32	C 10	N 5	O 14	P 3	0
46	UE	1	Total 32	C 10	N 5	O 14	P 3	0
46	UG	1	Total 32	C 10	N 5	O 14	P 3	0
46	UI	1	Total 32	C 10	N 5	O 14	P 3	0
46	UK	1	Total 32	C 10	N 5	O 14	P 3	0
46	UM	1	Total 32	C 10	N 5	O 14	P 3	0
46	VA	1	Total 32	C 10	N 5	O 14	P 3	0
46	VC	1	Total 32	C 10	N 5	O 14	P 3	0
46	VE	1	Total 32	C 10	N 5	O 14	P 3	0
46	VG	1	Total 32	C 10	N 5	O 14	P 3	0
46	VI	1	Total 32	C 10	N 5	O 14	P 3	0
46	VK	1	Total 32	C 10	N 5	O 14	P 3	0
46	VM	1	Total 32	C 10	N 5	O 14	P 3	0
46	WA	1	Total 32	C 10	N 5	O 14	P 3	0
46	WC	1	Total 32	C 10	N 5	O 14	P 3	0
46	WE	1	Total 32	C 10	N 5	O 14	P 3	0
46	WG	1	Total 32	C 10	N 5	O 14	P 3	0
46	WI	1	Total 32	C 10	N 5	O 14	P 3	0
46	WK	1	Total 32	C 10	N 5	O 14	P 3	0
46	WM	1	Total 32	C 10	N 5	O 14	P 3	0

- Molecule 47 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
47	AB	1	Total Mg 1 1	0
47	AC	1	Total Mg 1 1	0
47	AE	1	Total Mg 1 1	0
47	AG	1	Total Mg 1 1	0
47	AI	1	Total Mg 1 1	0
47	AL	1	Total Mg 1 1	0
47	AM	1	Total Mg 1 1	0
47	BA	1	Total Mg 1 1	0
47	BD	1	Total Mg 1 1	0
47	BF	1	Total Mg 1 1	0
47	BH	1	Total Mg 1 1	0
47	BJ	1	Total Mg 1 1	0
47	BL	1	Total Mg 1 1	0
47	BM	1	Total Mg 1 1	0
47	CA	1	Total Mg 1 1	0
47	CC	1	Total Mg 1 1	0
47	CE	1	Total Mg 1 1	0
47	CF	1	Total Mg 1 1	0
47	CH	1	Total Mg 1 1	0
47	CJ	1	Total Mg 1 1	0
47	CM	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	DA	1	1	1	0
47	DB	1	1	1	0
47	DE	1	1	1	0
47	DG	1	1	1	0
47	DI	1	1	1	0
47	DK	1	1	1	0
47	DM	1	1	1	0
47	EA	1	1	1	0
47	EB	1	1	1	0
47	EE	1	1	1	0
47	EG	1	1	1	0
47	EI	1	1	1	0
47	EJ	1	1	1	0
47	EL	1	1	1	0
47	FA	1	1	1	0
47	FD	1	1	1	0
47	FF	1	1	1	0
47	FG	1	1	1	0
47	FI	1	1	1	0
47	FK	1	1	1	0
47	FM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	GA	1	1	1	0
47	GD	1	1	1	0
47	GE	1	1	1	0
47	GH	1	1	1	0
47	GJ	1	1	1	0
47	GK	1	1	1	0
47	GM	1	1	1	0
47	HA	1	1	1	0
47	HC	1	1	1	0
47	HF	1	1	1	0
47	HG	1	1	1	0
47	HI	1	1	1	0
47	HL	1	1	1	0
47	HM	1	1	1	0
47	IA	1	1	1	0
47	IC	1	1	1	0
47	IE	1	1	1	0
47	IH	1	1	1	0
47	IJ	1	1	1	0
47	IK	1	1	1	0
47	IM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	JA	1	1	1	0
47	JC	1	1	1	0
47	JE	1	1	1	0
47	JG	1	1	1	0
47	JI	1	1	1	0
47	JK	1	1	1	0
47	JM	1	1	1	0
47	KA	1	1	1	0
47	KC	1	1	1	0
47	KF	1	1	1	0
47	KG	1	1	1	0
47	KI	1	1	1	0
47	KK	1	1	1	0
47	KM	1	1	1	0
47	LA	1	1	1	0
47	LC	1	1	1	0
47	LE	1	1	1	0
47	LG	1	1	1	0
47	LI	1	1	1	0
47	LK	1	1	1	0
47	LN	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	MA	1	1	1	0
47	MC	1	1	1	0
47	MF	1	1	1	0
47	MG	1	1	1	0
47	MJ	1	1	1	0
47	MK	1	1	1	0
47	MN	1	1	1	0
47	NA	1	1	1	0
47	NC	1	1	1	0
47	NE	1	1	1	0
47	NG	1	1	1	0
47	NI	1	1	1	0
47	NK	1	1	1	0
47	NM	1	1	1	0
47	OA	1	1	1	0
47	OD	1	1	1	0
47	OE	1	1	1	0
47	OG	1	1	1	0
47	OI	1	1	1	0
47	OK	1	1	1	0
47	OM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	PA	1	1	1	0
47	PD	1	1	1	0
47	PE	1	1	1	0
47	PG	1	1	1	0
47	PI	1	1	1	0
47	PK	1	1	1	0
47	PM	1	1	1	0
47	QA	1	1	1	0
47	QC	1	1	1	0
47	QD	1	1	1	0
47	QG	1	1	1	0
47	QI	1	1	1	0
47	QJ	1	1	1	0
47	QM	1	1	1	0
47	RA	1	1	1	0
47	RC	1	1	1	0
47	RE	1	1	1	0
47	RG	1	1	1	0
47	RH	1	1	1	0
47	RK	1	1	1	0
47	RM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	SA	1	1	1	0
47	SC	1	1	1	0
47	SE	1	1	1	0
47	SG	1	1	1	0
47	SI	1	1	1	0
47	SK	1	1	1	0
47	SM	1	1	1	0
47	TA	1	1	1	0
47	TC	1	1	1	0
47	TE	1	1	1	0
47	TG	1	1	1	0
47	TI	1	1	1	0
47	TK	1	1	1	0
47	TM	1	1	1	0
47	UA	1	1	1	0
47	UC	1	1	1	0
47	UE	1	1	1	0
47	UG	1	1	1	0
47	UI	1	1	1	0
47	UK	1	1	1	0
47	UL	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
47	VB	1	1	1	0
47	VC	1	1	1	0
47	VE	1	1	1	0
47	VG	1	1	1	0
47	VI	1	1	1	0
47	VK	1	1	1	0
47	VM	1	1	1	0
47	WA	1	1	1	0
47	WC	1	1	1	0
47	WE	1	1	1	0
47	WG	1	1	1	0
47	WJ	1	1	1	0
47	WK	1	1	1	0
47	WM	1	1	1	0

- Molecule 48 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula:  $C_{10}H_{15}N_5O_{11}P_2$ ) (labeled as "Ligand of Interest" by depositor).



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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
48	CB	1	Total 28	C 10	N 5	O 11	P 2	0
48	CD	1	Total 28	C 10	N 5	O 11	P 2	0
48	CF	1	Total 28	C 10	N 5	O 11	P 2	0
48	CH	1	Total 28	C 10	N 5	O 11	P 2	0
48	CJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	CL	1	Total 28	C 10	N 5	O 11	P 2	0
48	CN	1	Total 28	C 10	N 5	O 11	P 2	0
48	DB	1	Total 28	C 10	N 5	O 11	P 2	0
48	DD	1	Total 28	C 10	N 5	O 11	P 2	0
48	DF	1	Total 28	C 10	N 5	O 11	P 2	0
48	DH	1	Total 28	C 10	N 5	O 11	P 2	0
48	DJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	DL	1	Total 28	C 10	N 5	O 11	P 2	0
48	DN	1	Total 28	C 10	N 5	O 11	P 2	0
48	EB	1	Total 28	C 10	N 5	O 11	P 2	0
48	ED	1	Total 28	C 10	N 5	O 11	P 2	0
48	EF	1	Total 28	C 10	N 5	O 11	P 2	0
48	EH	1	Total 28	C 10	N 5	O 11	P 2	0
48	EJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	EL	1	Total 28	C 10	N 5	O 11	P 2	0
48	EN	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
48	FB	1	Total 28	C 10	N 5	O 11	P 2	0
48	FD	1	Total 28	C 10	N 5	O 11	P 2	0
48	FF	1	Total 28	C 10	N 5	O 11	P 2	0
48	FH	1	Total 28	C 10	N 5	O 11	P 2	0
48	FJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	FL	1	Total 28	C 10	N 5	O 11	P 2	0
48	FN	1	Total 28	C 10	N 5	O 11	P 2	0
48	GB	1	Total 28	C 10	N 5	O 11	P 2	0
48	GD	1	Total 28	C 10	N 5	O 11	P 2	0
48	GF	1	Total 28	C 10	N 5	O 11	P 2	0
48	GH	1	Total 28	C 10	N 5	O 11	P 2	0
48	GJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	GL	1	Total 28	C 10	N 5	O 11	P 2	0
48	GN	1	Total 28	C 10	N 5	O 11	P 2	0
48	HB	1	Total 28	C 10	N 5	O 11	P 2	0
48	HD	1	Total 28	C 10	N 5	O 11	P 2	0
48	HF	1	Total 28	C 10	N 5	O 11	P 2	0
48	HH	1	Total 28	C 10	N 5	O 11	P 2	0
48	HJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	HL	1	Total 28	C 10	N 5	O 11	P 2	0
48	HN	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
48	IB	1	Total 28	C 10	N 5	O 11	P 2	0
48	ID	1	Total 28	C 10	N 5	O 11	P 2	0
48	IF	1	Total 28	C 10	N 5	O 11	P 2	0
48	IH	1	Total 28	C 10	N 5	O 11	P 2	0
48	IJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	IL	1	Total 28	C 10	N 5	O 11	P 2	0
48	IN	1	Total 28	C 10	N 5	O 11	P 2	0
48	JB	1	Total 28	C 10	N 5	O 11	P 2	0
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48	JF	1	Total 28	C 10	N 5	O 11	P 2	0
48	JH	1	Total 28	C 10	N 5	O 11	P 2	0
48	JJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	JL	1	Total 28	C 10	N 5	O 11	P 2	0
48	JN	1	Total 28	C 10	N 5	O 11	P 2	0
48	KB	1	Total 28	C 10	N 5	O 11	P 2	0
48	KD	1	Total 28	C 10	N 5	O 11	P 2	0
48	KF	1	Total 28	C 10	N 5	O 11	P 2	0
48	KH	1	Total 28	C 10	N 5	O 11	P 2	0
48	KJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	KL	1	Total 28	C 10	N 5	O 11	P 2	0
48	KN	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
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48	LD	1	Total 28	C 10	N 5	O 11	P 2	0
48	LF	1	Total 28	C 10	N 5	O 11	P 2	0
48	LH	1	Total 28	C 10	N 5	O 11	P 2	0
48	LJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	LL	1	Total 28	C 10	N 5	O 11	P 2	0
48	LN	1	Total 28	C 10	N 5	O 11	P 2	0
48	MB	1	Total 28	C 10	N 5	O 11	P 2	0
48	MD	1	Total 28	C 10	N 5	O 11	P 2	0
48	MF	1	Total 28	C 10	N 5	O 11	P 2	0
48	MH	1	Total 28	C 10	N 5	O 11	P 2	0
48	MJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	ML	1	Total 28	C 10	N 5	O 11	P 2	0
48	MN	1	Total 28	C 10	N 5	O 11	P 2	0
48	NB	1	Total 28	C 10	N 5	O 11	P 2	0
48	ND	1	Total 28	C 10	N 5	O 11	P 2	0
48	NF	1	Total 28	C 10	N 5	O 11	P 2	0
48	NH	1	Total 28	C 10	N 5	O 11	P 2	0
48	NJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	NL	1	Total 28	C 10	N 5	O 11	P 2	0
48	NN	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
48	OB	1	Total 28	C 10	N 5	O 11	P 2	0
48	OD	1	Total 28	C 10	N 5	O 11	P 2	0
48	OF	1	Total 28	C 10	N 5	O 11	P 2	0
48	OH	1	Total 28	C 10	N 5	O 11	P 2	0
48	OJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	OL	1	Total 28	C 10	N 5	O 11	P 2	0
48	ON	1	Total 28	C 10	N 5	O 11	P 2	0
48	PB	1	Total 28	C 10	N 5	O 11	P 2	0
48	PD	1	Total 28	C 10	N 5	O 11	P 2	0
48	PF	1	Total 28	C 10	N 5	O 11	P 2	0
48	PH	1	Total 28	C 10	N 5	O 11	P 2	0
48	PJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	PL	1	Total 28	C 10	N 5	O 11	P 2	0
48	PN	1	Total 28	C 10	N 5	O 11	P 2	0
48	QB	1	Total 28	C 10	N 5	O 11	P 2	0
48	QD	1	Total 28	C 10	N 5	O 11	P 2	0
48	QF	1	Total 28	C 10	N 5	O 11	P 2	0
48	QH	1	Total 28	C 10	N 5	O 11	P 2	0
48	QJ	1	Total 28	C 10	N 5	O 11	P 2	0
48	QL	1	Total 28	C 10	N 5	O 11	P 2	0
48	QN	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
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48	RD	1	28	10	5	11	2	0
48	RF	1	28	10	5	11	2	0
48	RH	1	28	10	5	11	2	0
48	RJ	1	28	10	5	11	2	0
48	RL	1	28	10	5	11	2	0
48	RN	1	28	10	5	11	2	0
48	SB	1	28	10	5	11	2	0
48	SD	1	28	10	5	11	2	0
48	SF	1	28	10	5	11	2	0
48	SH	1	28	10	5	11	2	0
48	SJ	1	28	10	5	11	2	0
48	SL	1	28	10	5	11	2	0
48	SN	1	28	10	5	11	2	0
48	TB	1	28	10	5	11	2	0
48	TD	1	28	10	5	11	2	0
48	TF	1	28	10	5	11	2	0
48	TH	1	28	10	5	11	2	0
48	TJ	1	28	10	5	11	2	0
48	TL	1	28	10	5	11	2	0
48	TN	1	28	10	5	11	2	0

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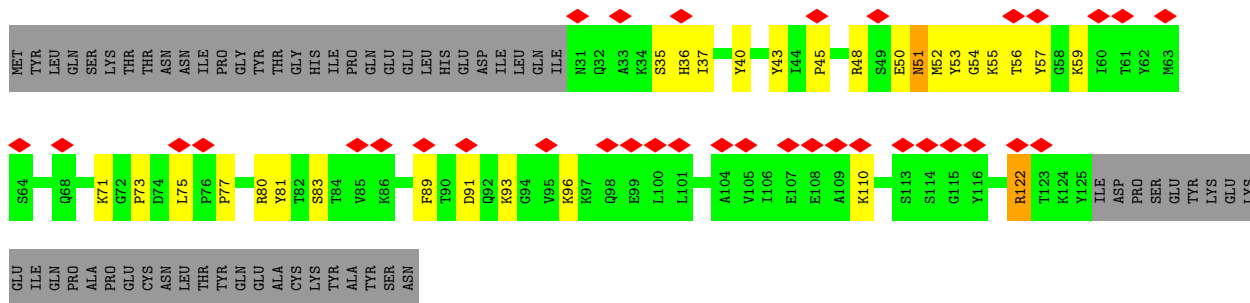
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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
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48	UD	1	28	10	5	11	2	0
48	UF	1	28	10	5	11	2	0
48	UH	1	28	10	5	11	2	0
48	UJ	1	28	10	5	11	2	0
48	UL	1	28	10	5	11	2	0
48	UN	1	28	10	5	11	2	0
48	VB	1	28	10	5	11	2	0
48	VD	1	28	10	5	11	2	0
48	VF	1	28	10	5	11	2	0
48	VH	1	28	10	5	11	2	0
48	VJ	1	28	10	5	11	2	0
48	VL	1	28	10	5	11	2	0
48	VN	1	28	10	5	11	2	0
48	WB	1	28	10	5	11	2	0
48	WD	1	28	10	5	11	2	0
48	WF	1	28	10	5	11	2	0
48	WH	1	28	10	5	11	2	0
48	WJ	1	28	10	5	11	2	0
48	WL	1	28	10	5	11	2	0
48	WN	1	28	10	5	11	2	0

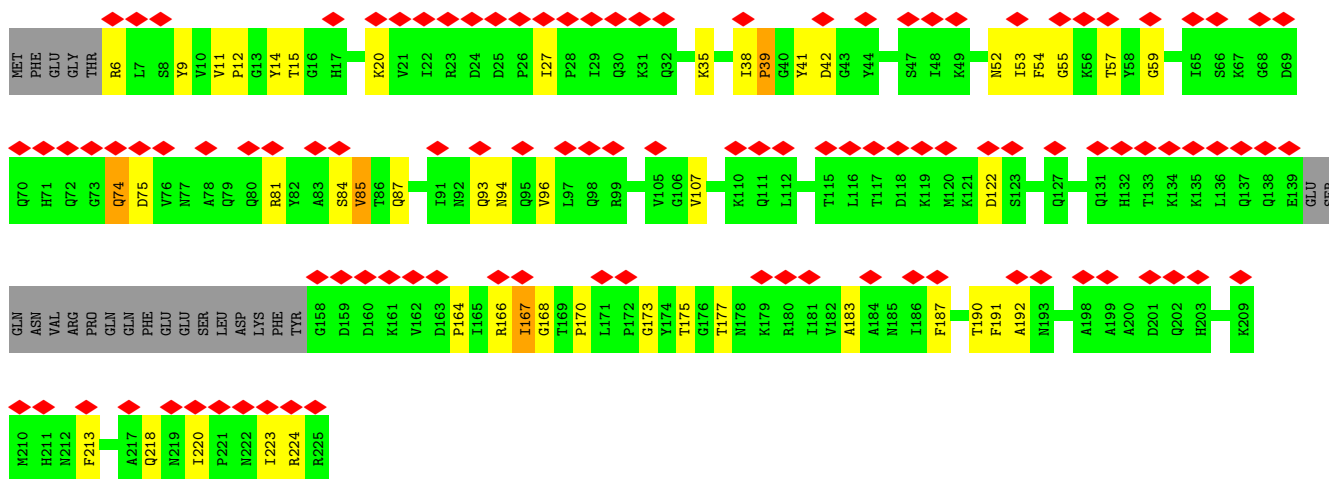




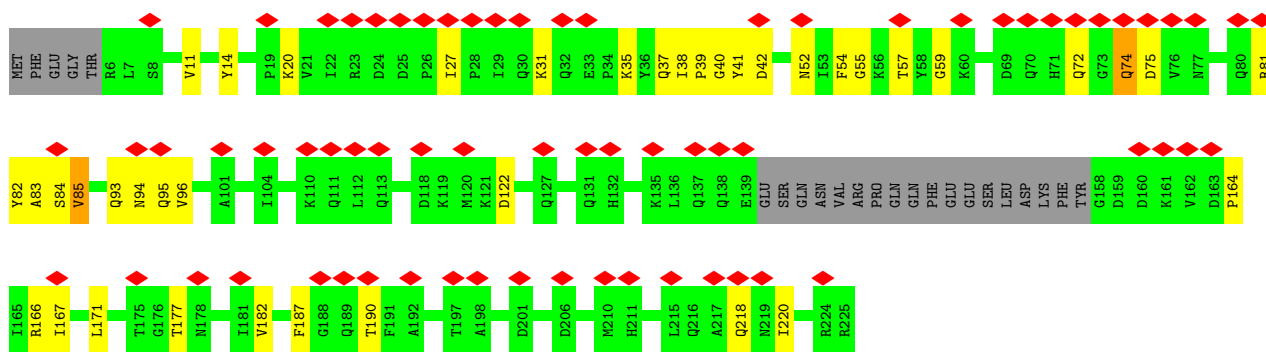
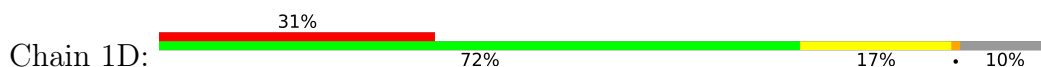




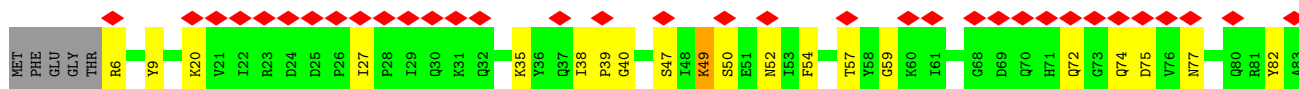
• Molecule 5: CFAM166A

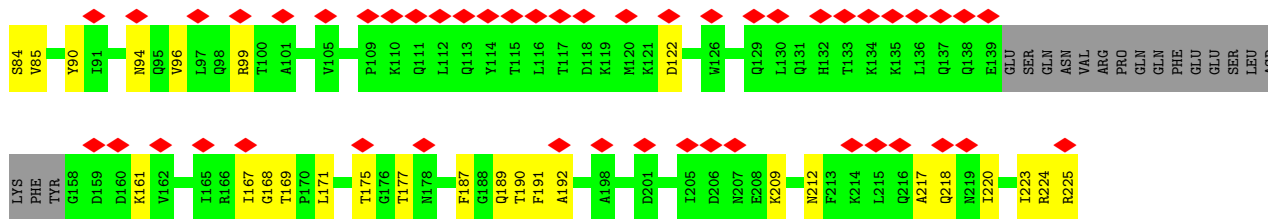


• Molecule 5: CFAM166A

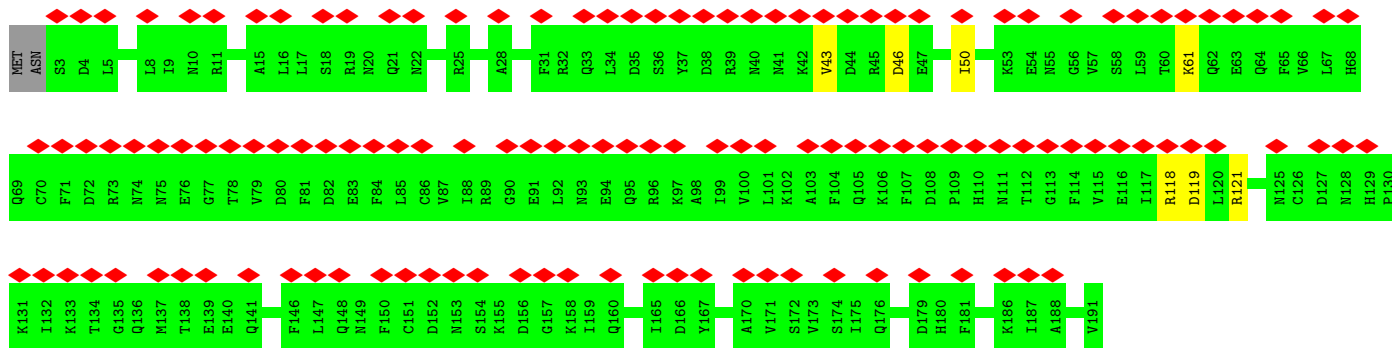


• Molecule 5: CFAM166A

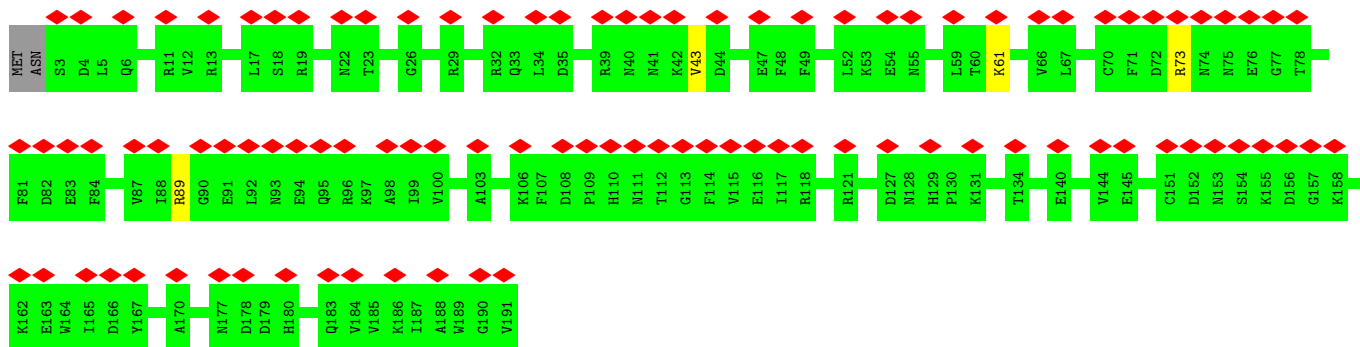




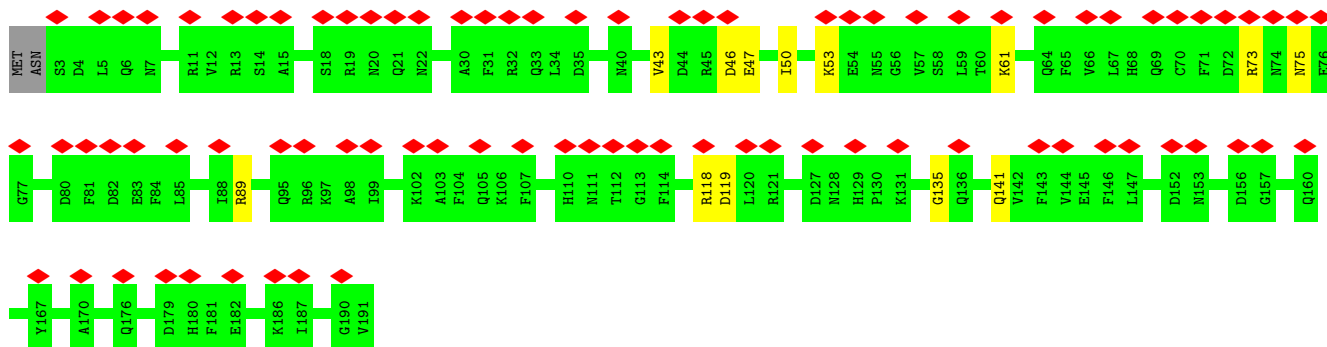
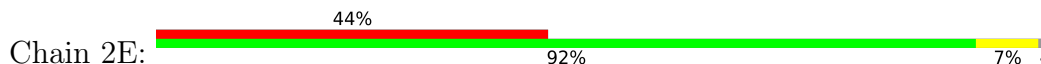
• Molecule 6: RIB22



• Molecule 6: RIB22

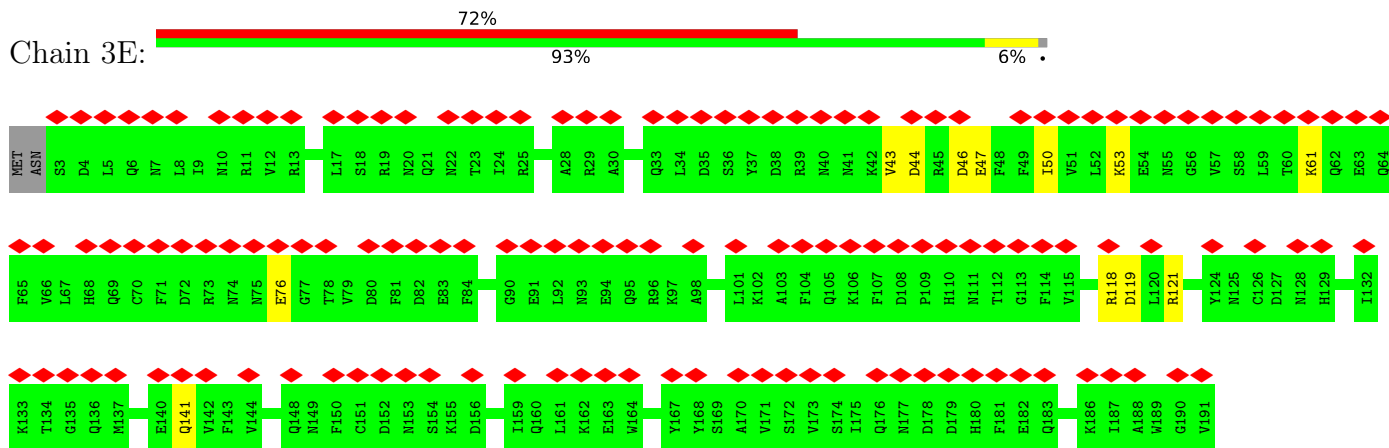


• Molecule 6: RIB22

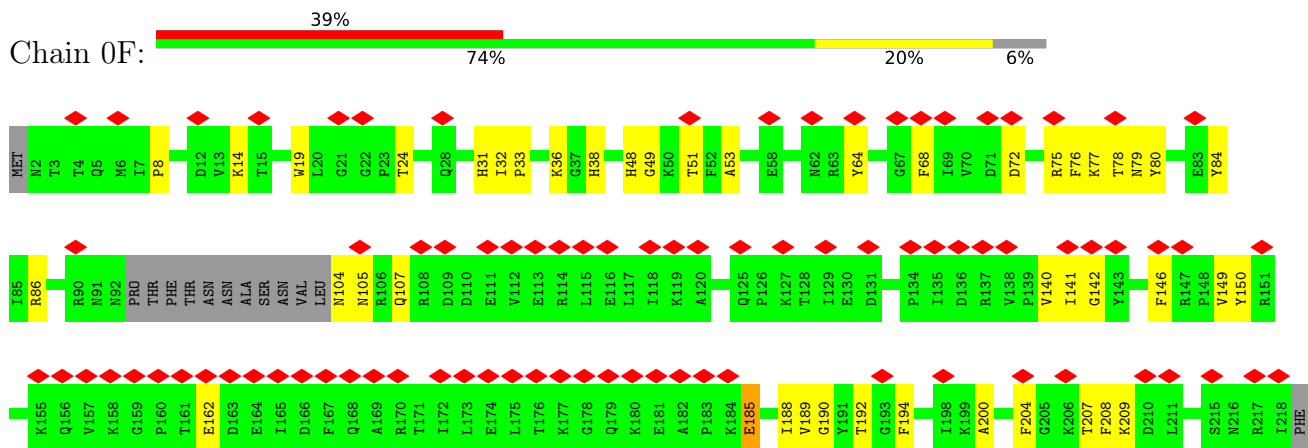




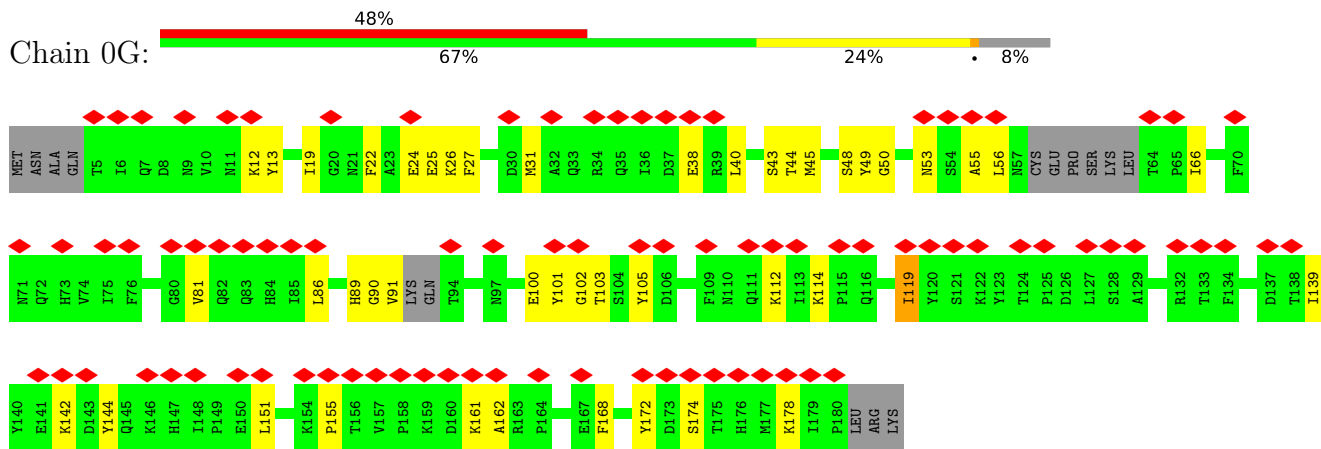
• Molecule 6: RIB22



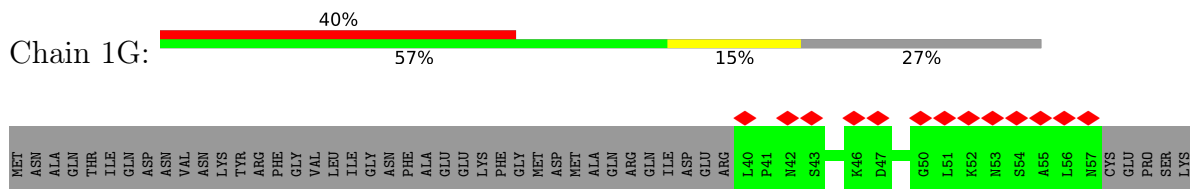
• Molecule 7: CFAM166C



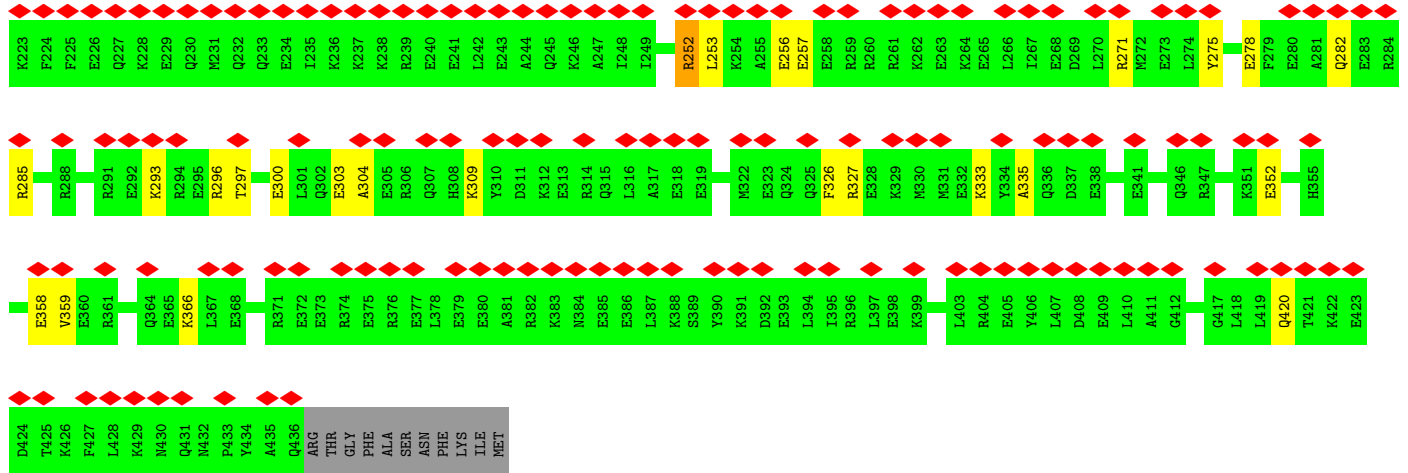
• Molecule 8: CFAP107



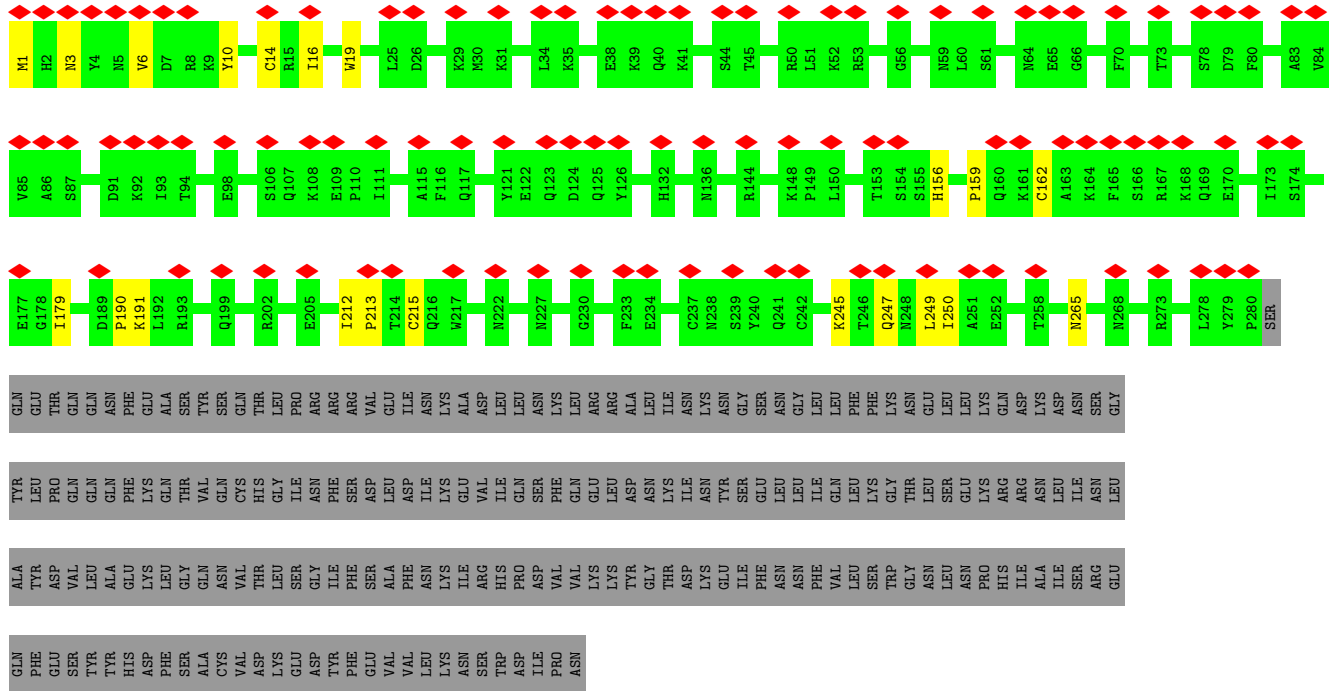
• Molecule 8: CFAP107



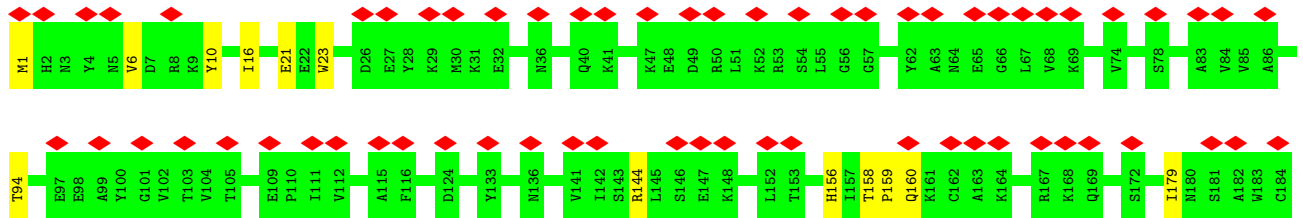
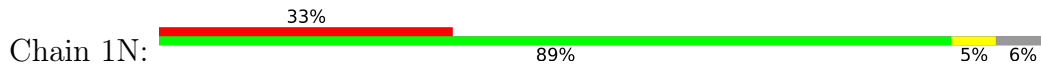




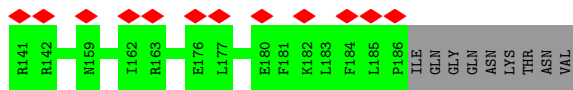
• Molecule 10: CFAP161A



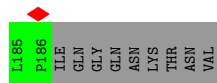
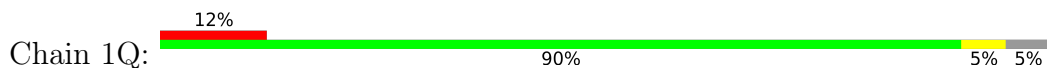
• Molecule 10: CFAP161A



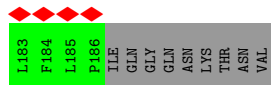
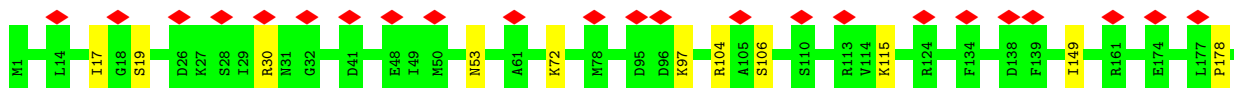
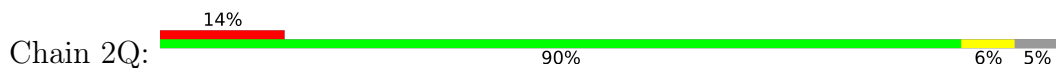




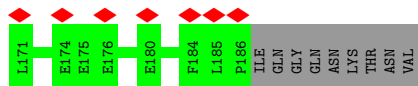
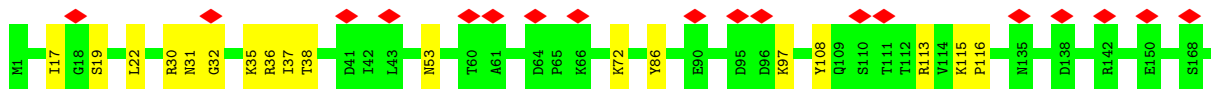
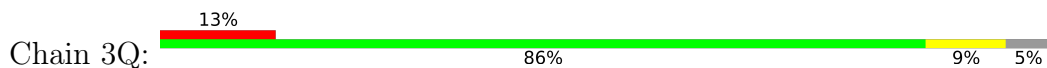
• Molecule 11: CFAP20



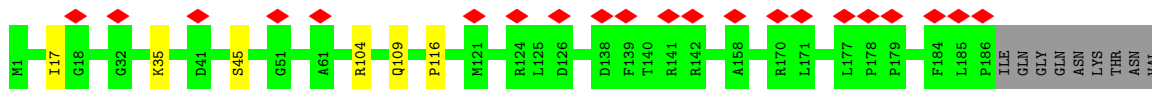
• Molecule 11: CFAP20



• Molecule 11: CFAP20

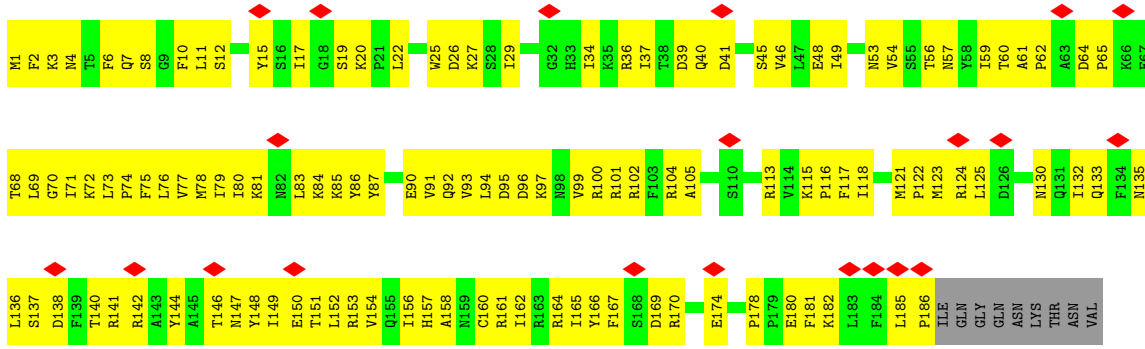


• Molecule 11: CFAP20



• Molecule 11: CFAP20

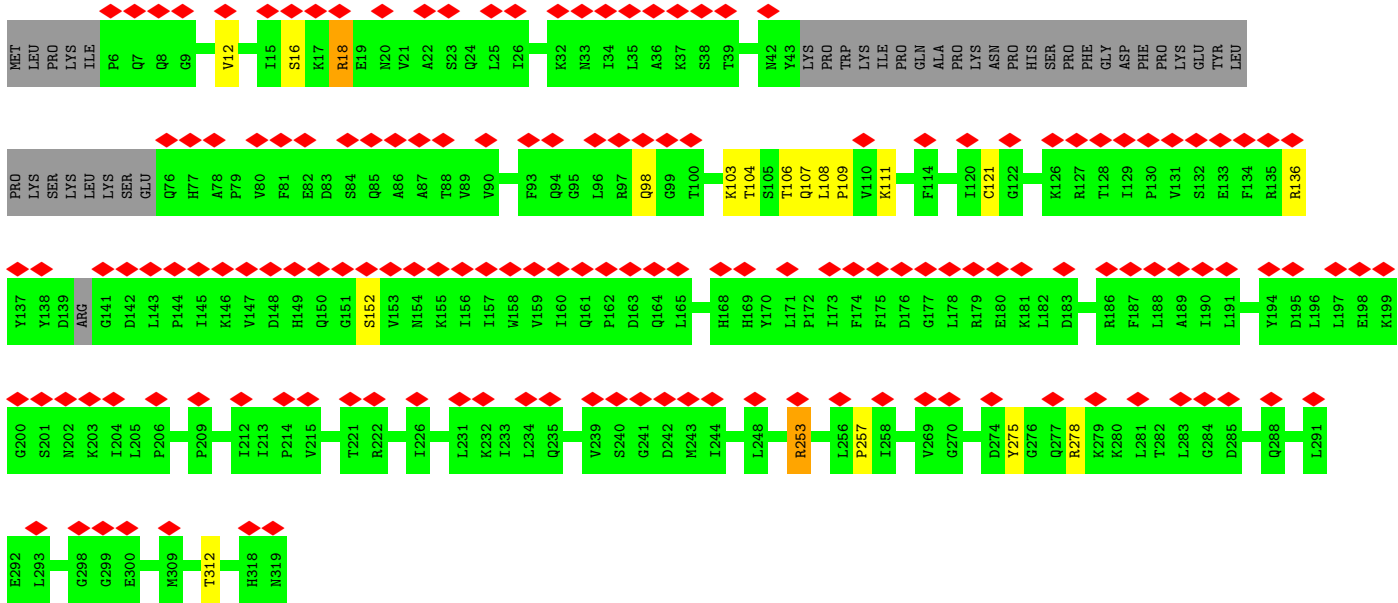
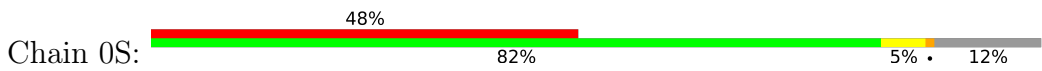




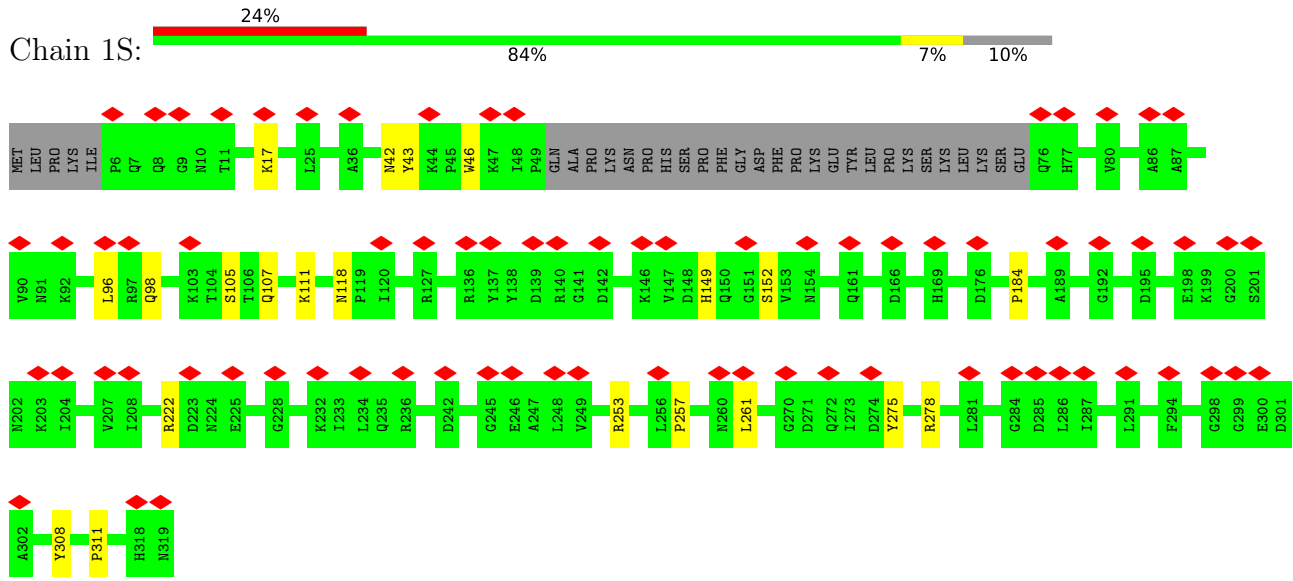
• Molecule 11: CFAP20



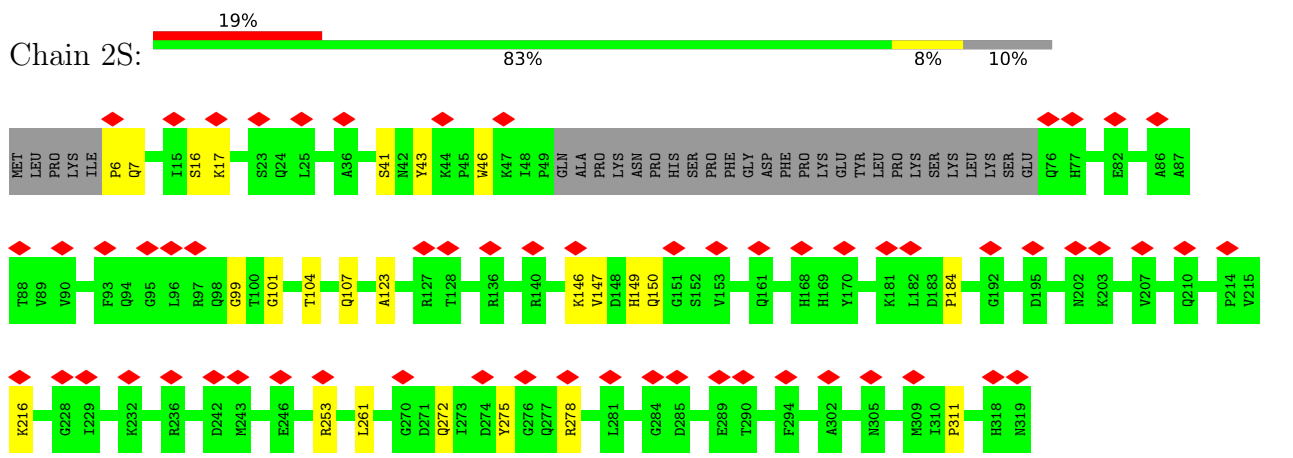
• Molecule 12: Parkin co-regulated protein PACRGA



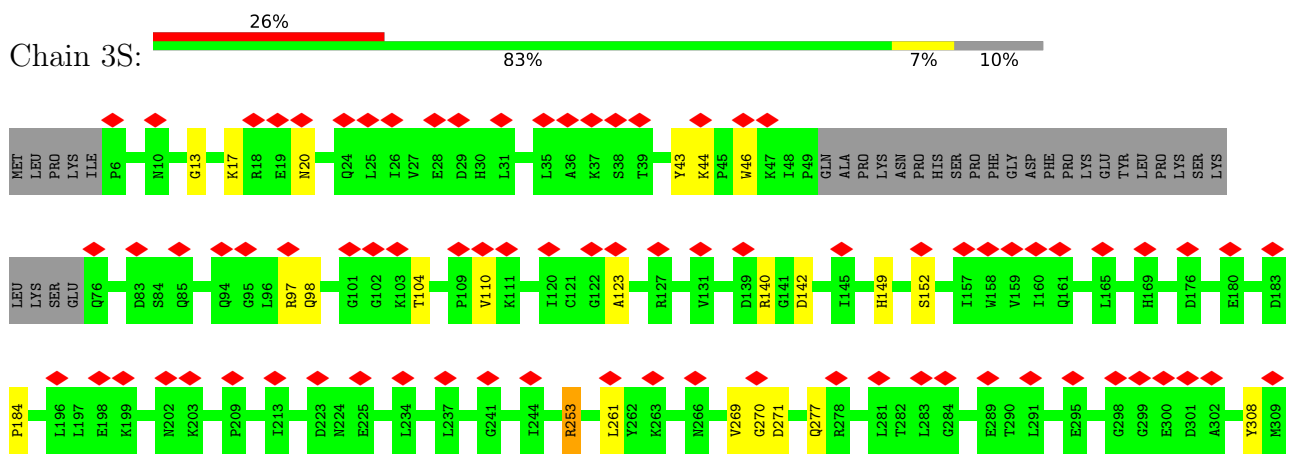
• Molecule 12: Parkin co-regulated protein PACRGA

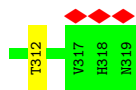


• Molecule 12: Parkin co-regulated protein PACRGA

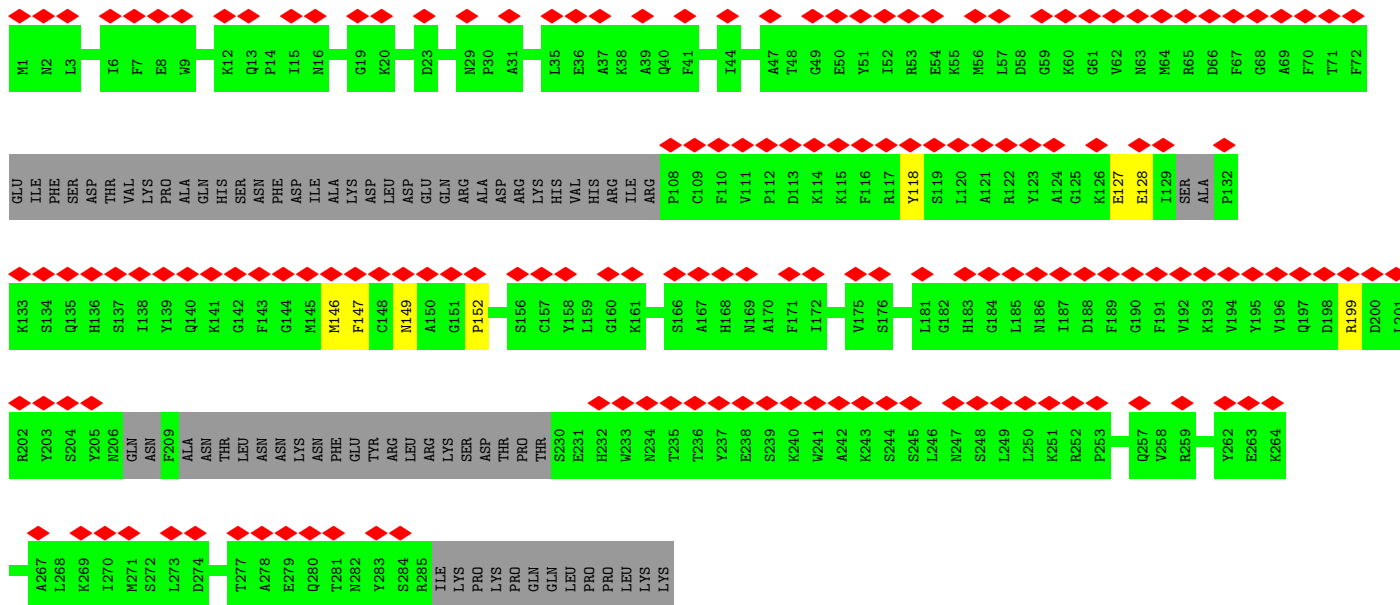
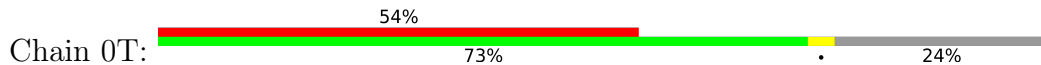


• Molecule 12: Parkin co-regulated protein PACRGA

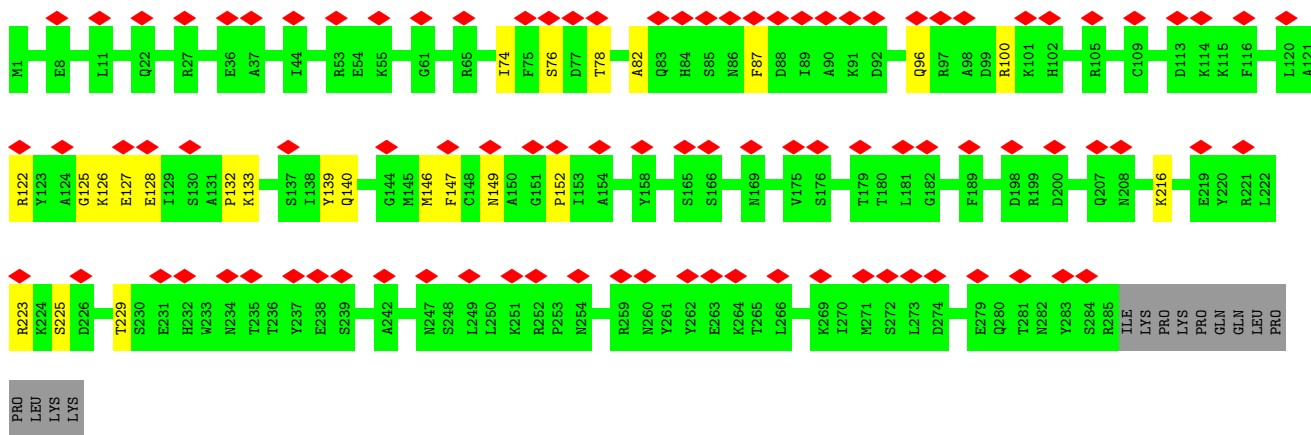
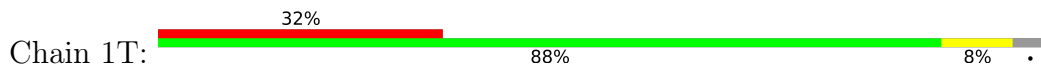




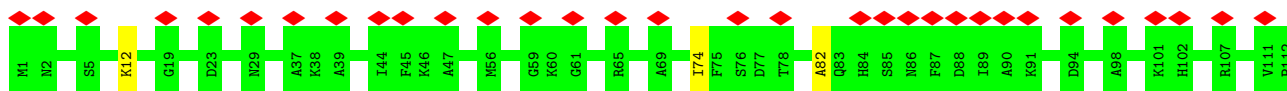
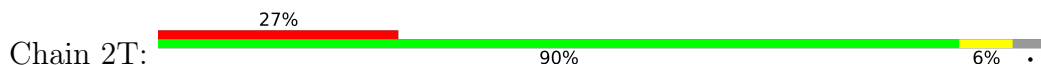
• Molecule 13: IJ34



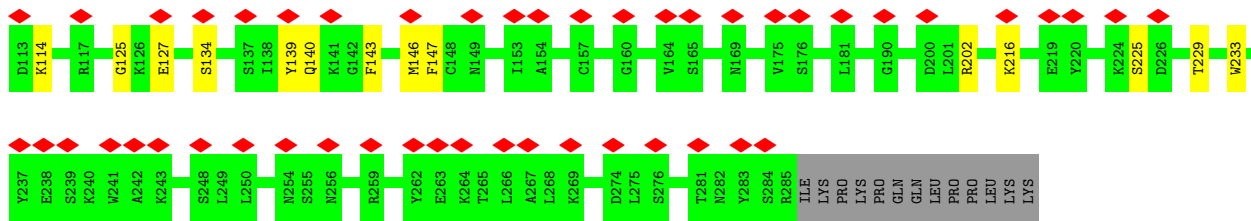
• Molecule 13: IJ34



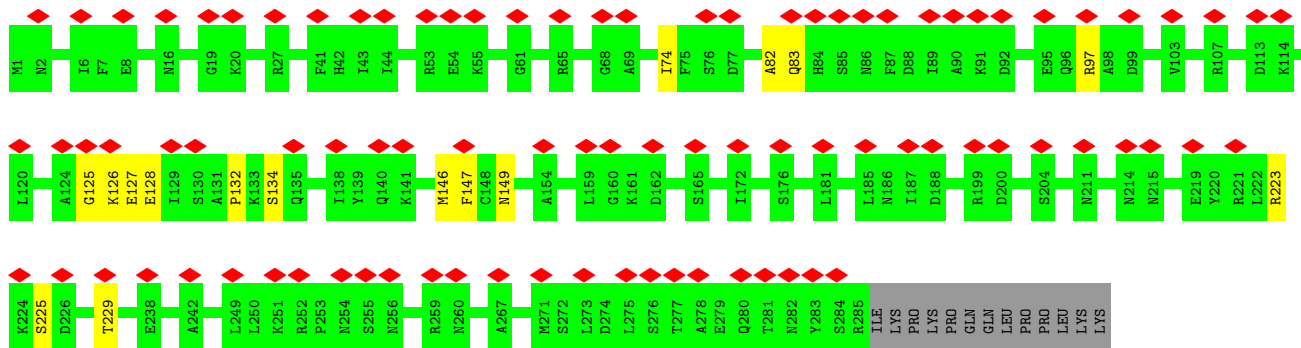
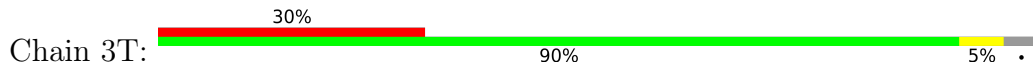
• Molecule 13: IJ34



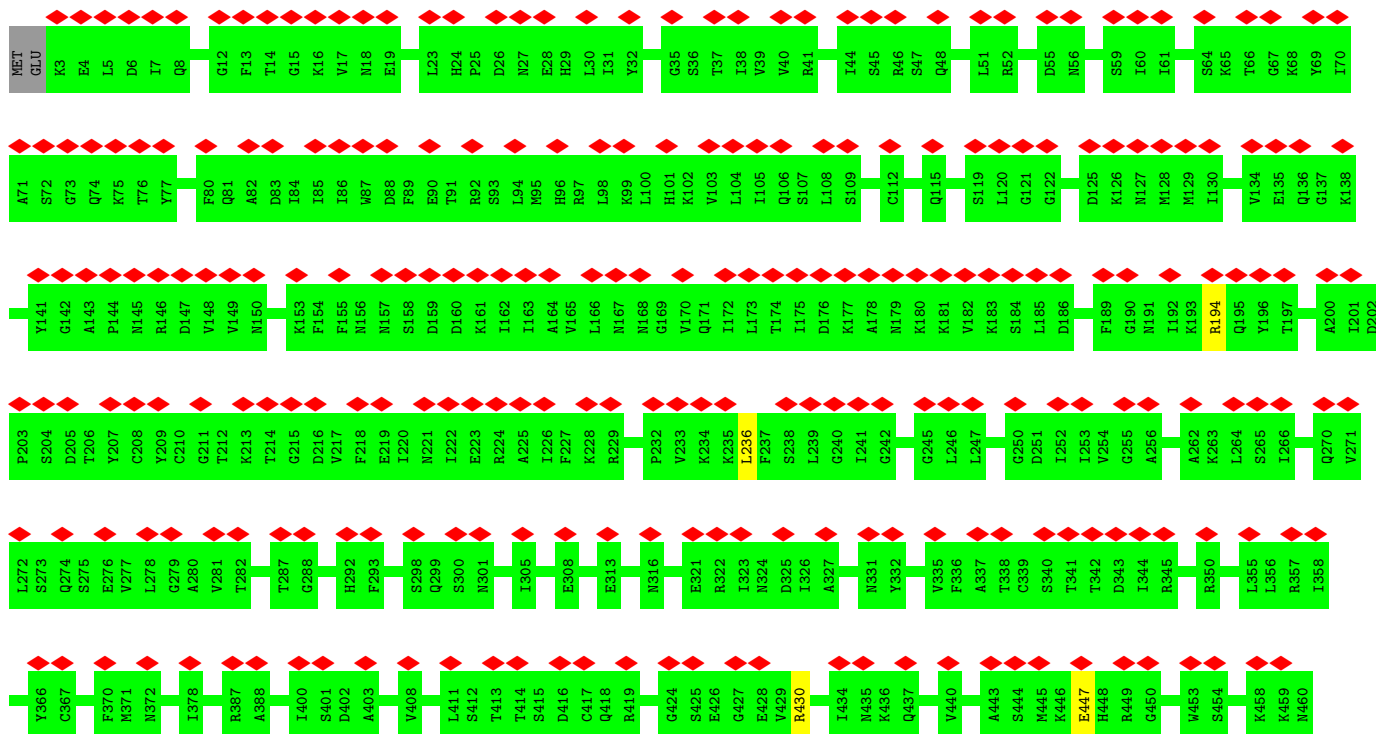




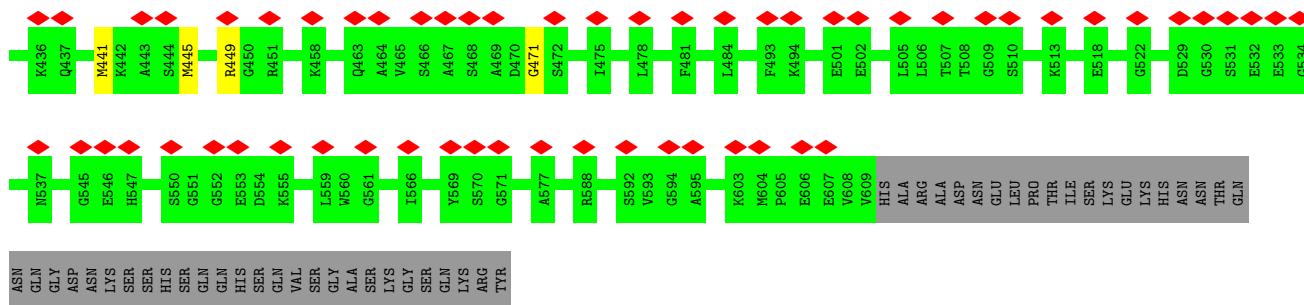
• Molecule 13: IJ34



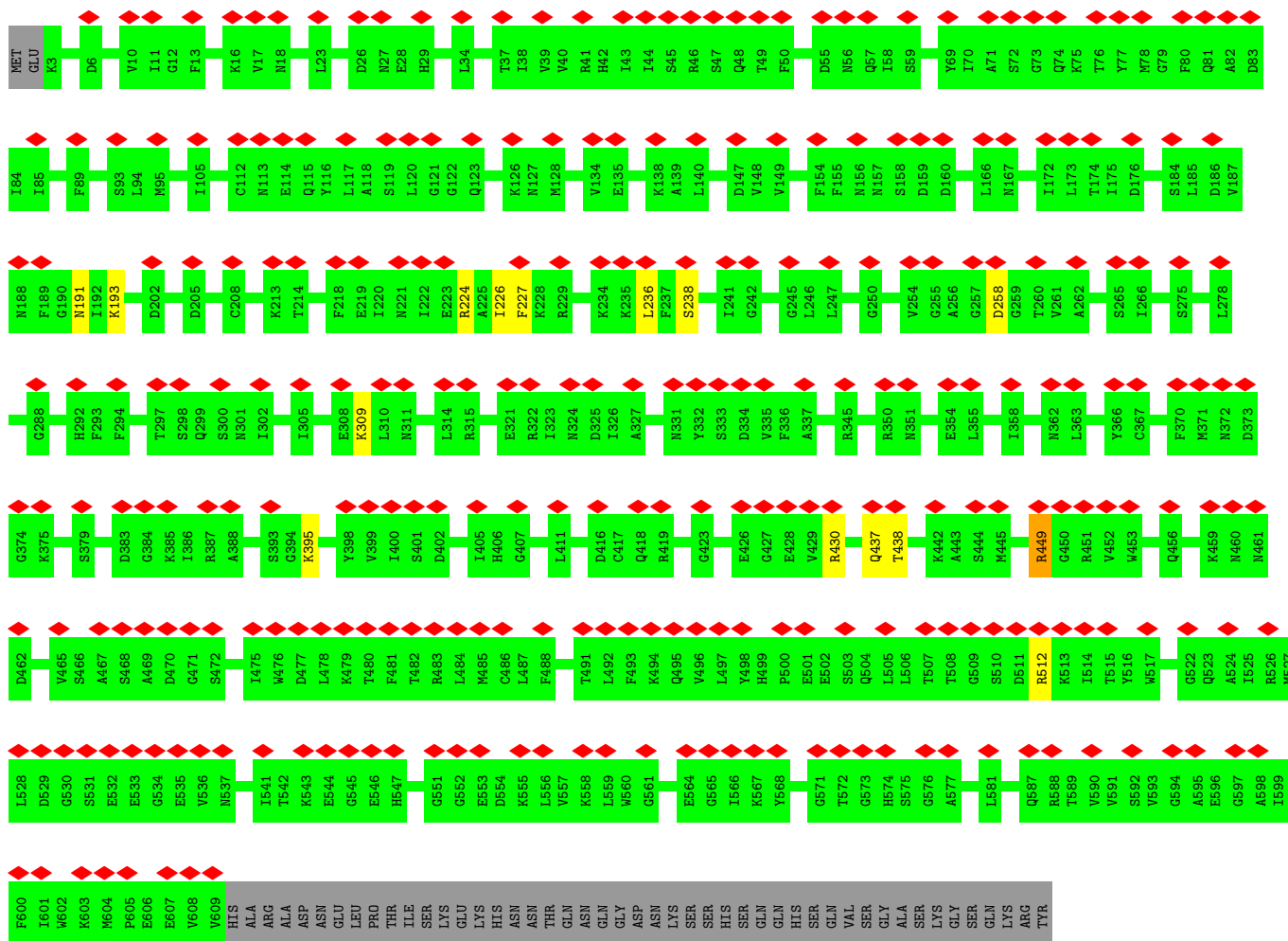
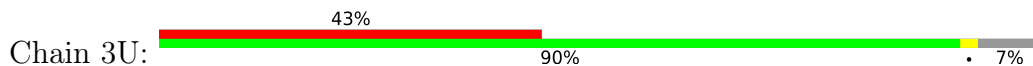
• Molecule 14: Cilia- and flagella-associated protein 52



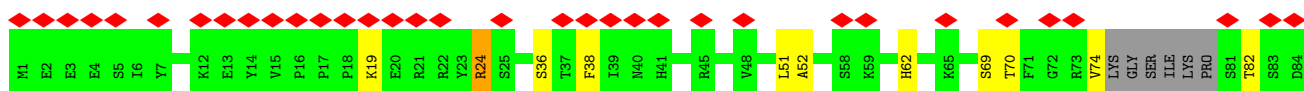
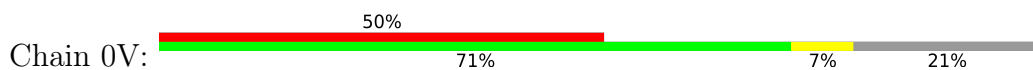




• Molecule 14: Cilia- and flagella-associated protein 52



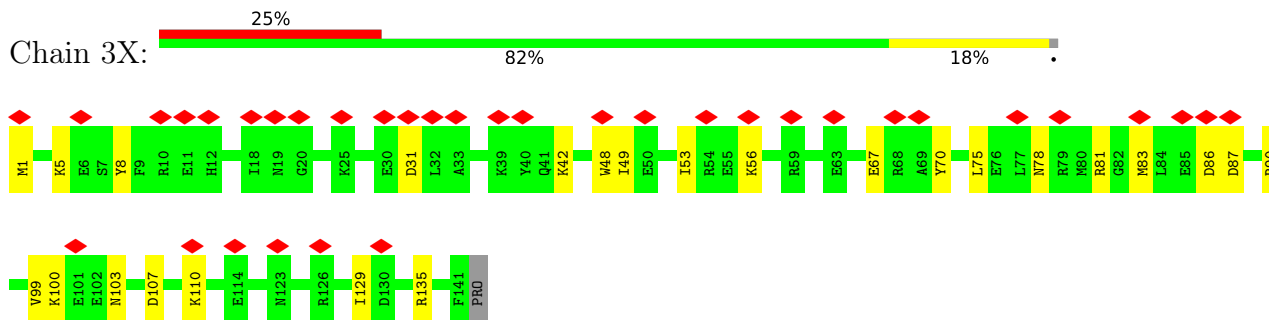
• Molecule 15: DNA polymerase delta C4-type zinc-finger protein



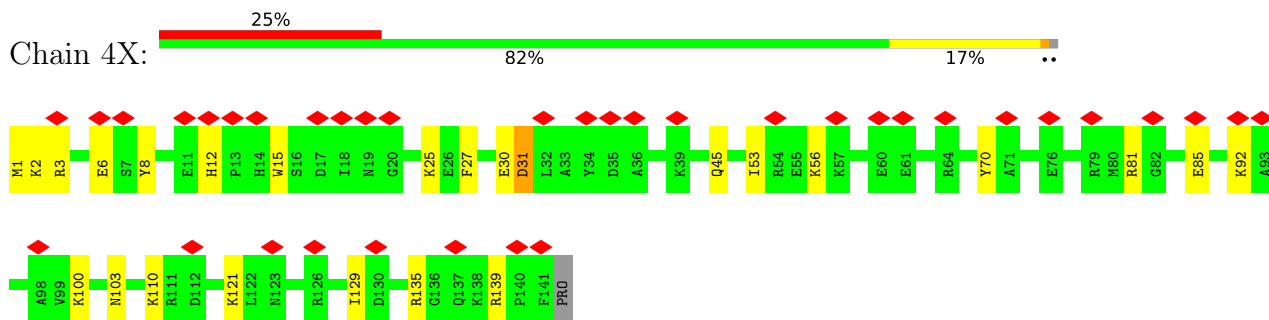




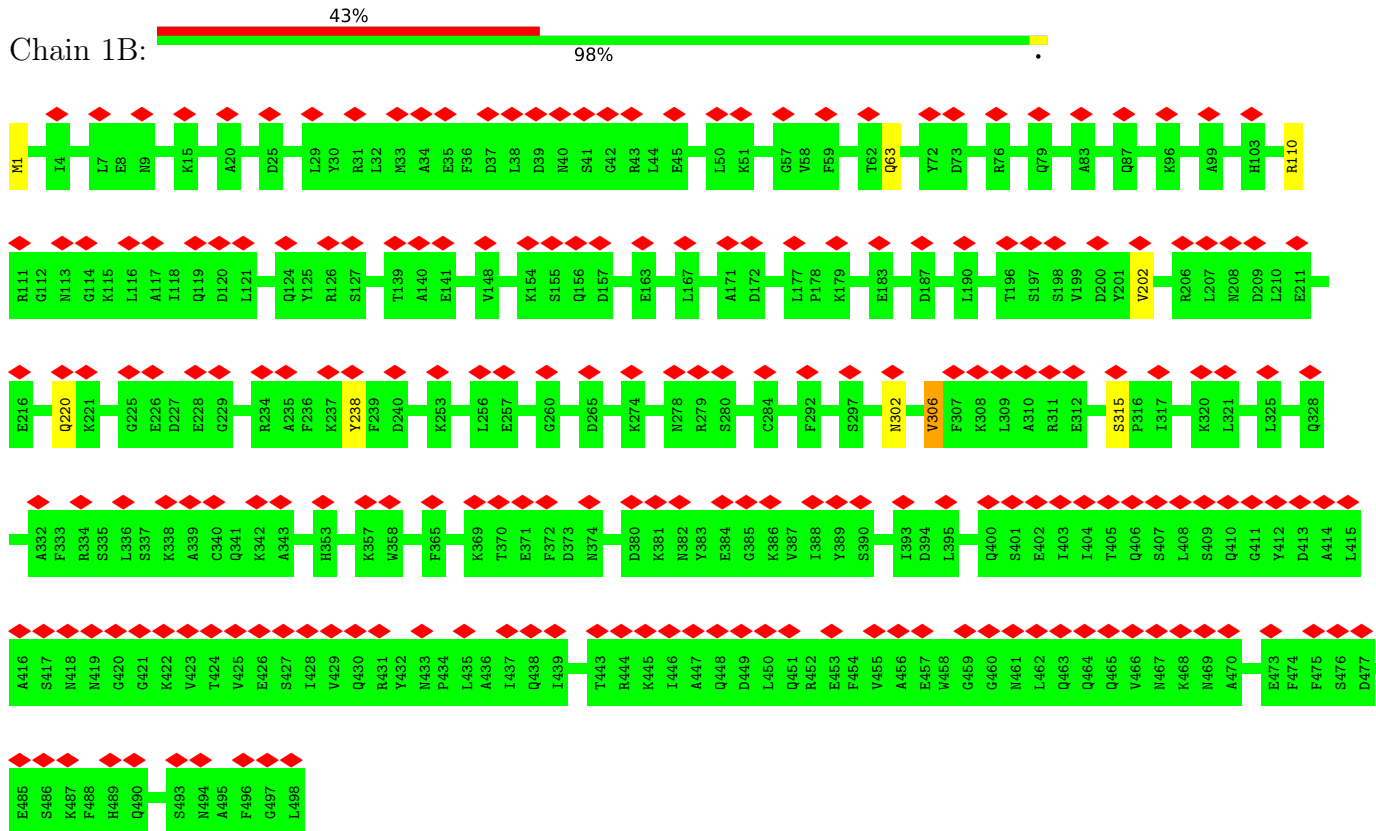
• Molecule 16: RIB43A protein



• Molecule 16: RIB43A protein

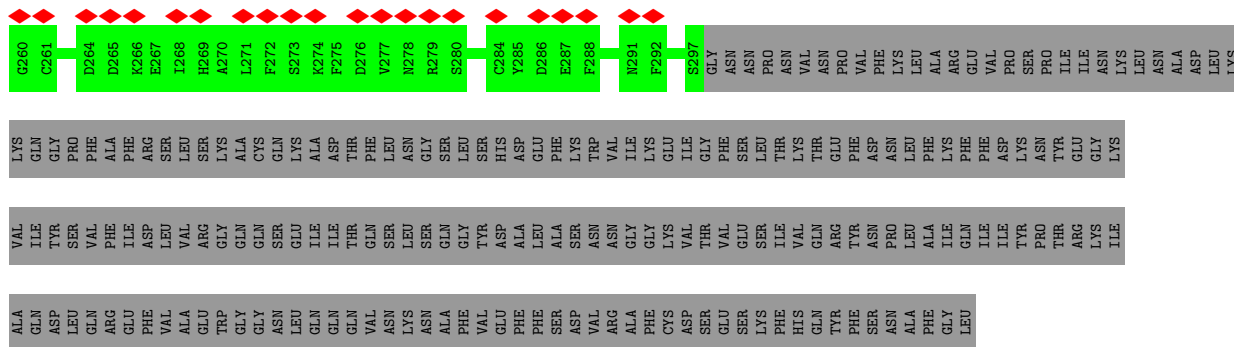


• Molecule 17: RIB57

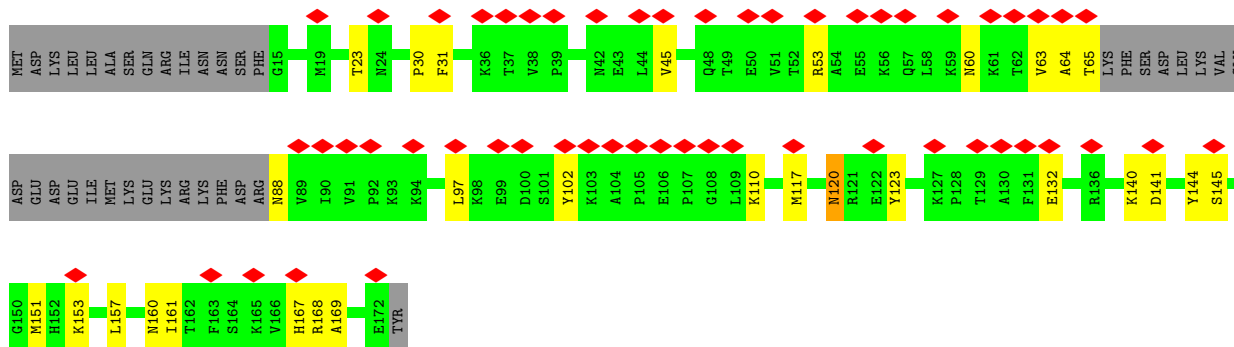


• Molecule 17: RIB57

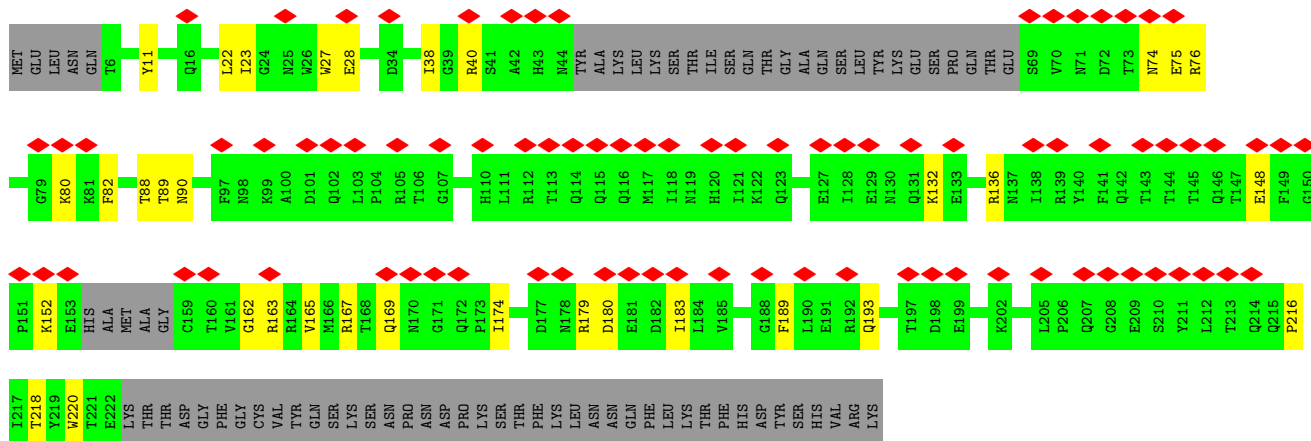




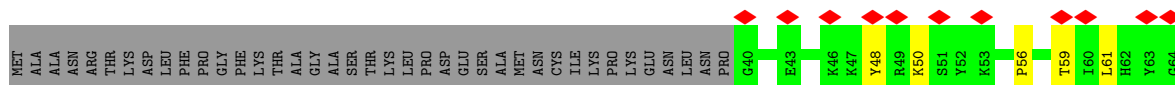
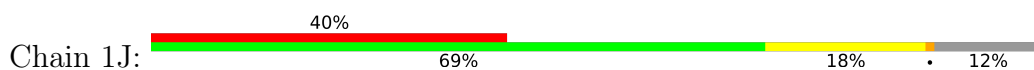
• Molecule 18: CFAP182A



• Molecule 19: CFAP143

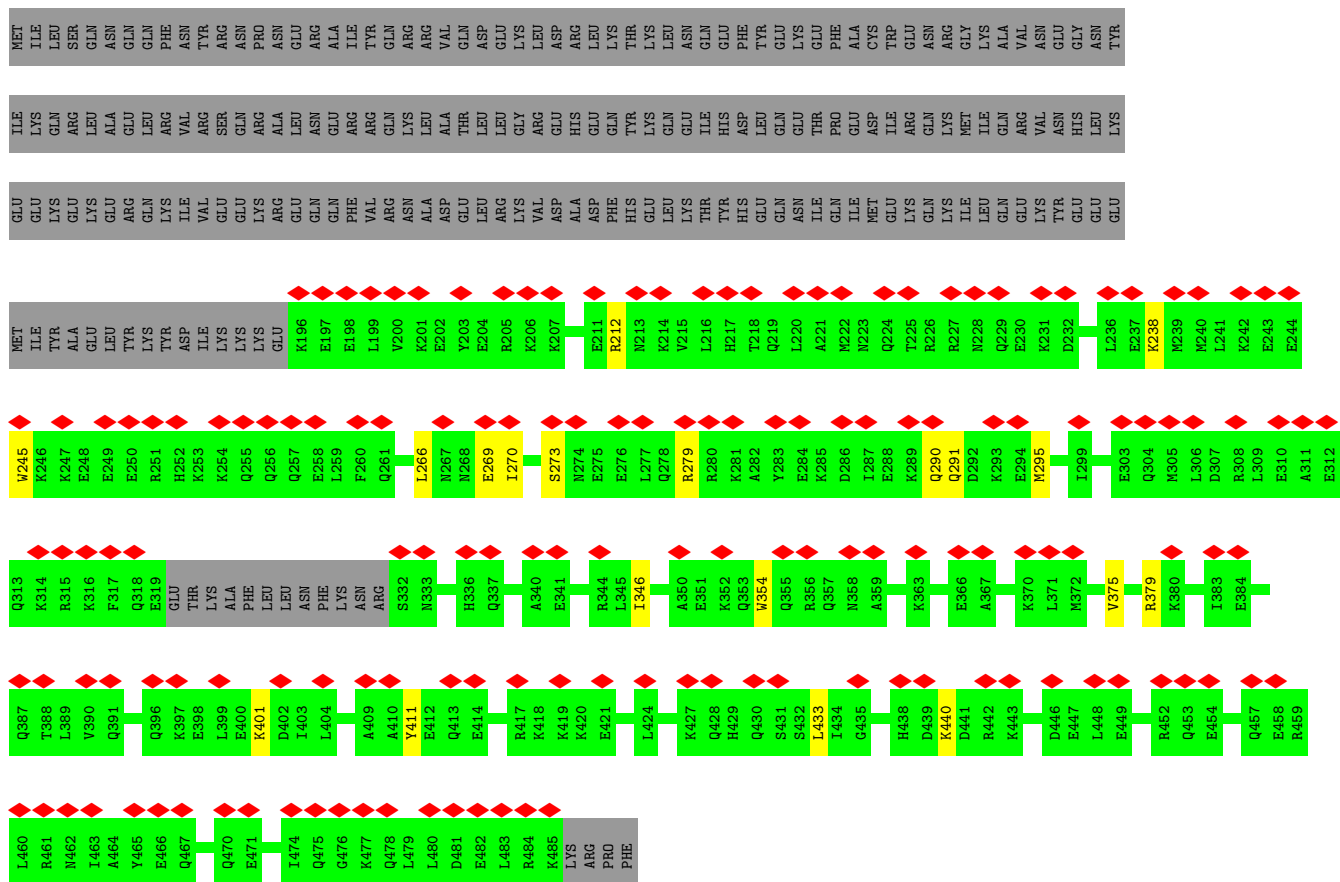


• Molecule 20: CFAP21A

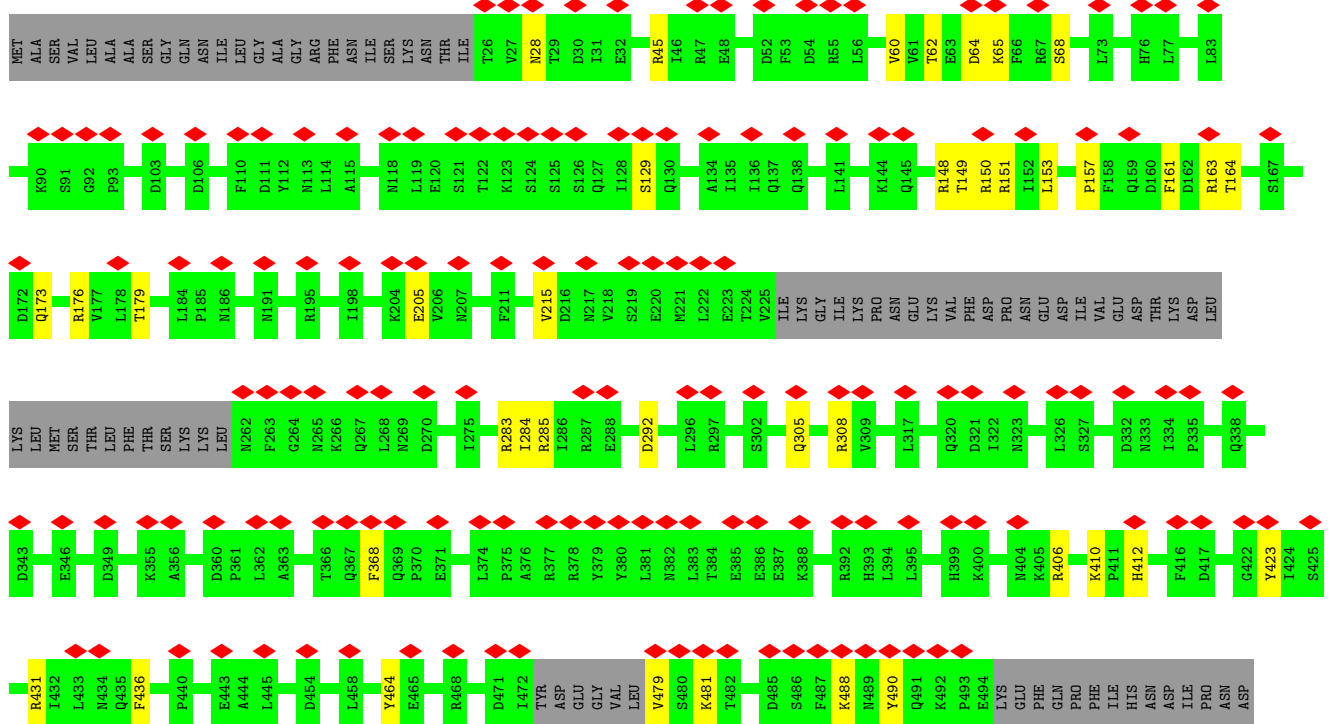
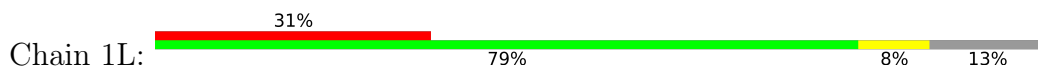








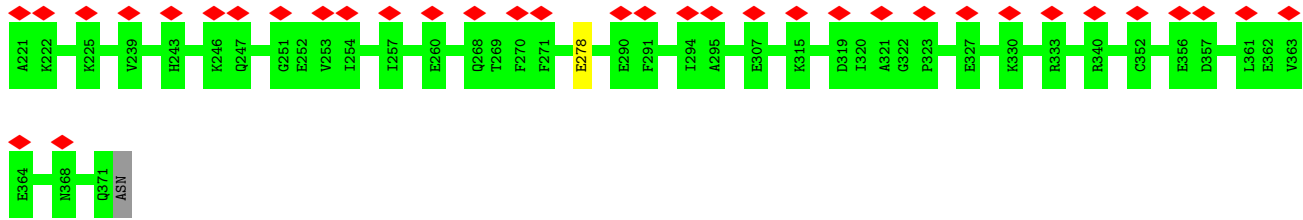
• Molecule 22: CFAP115



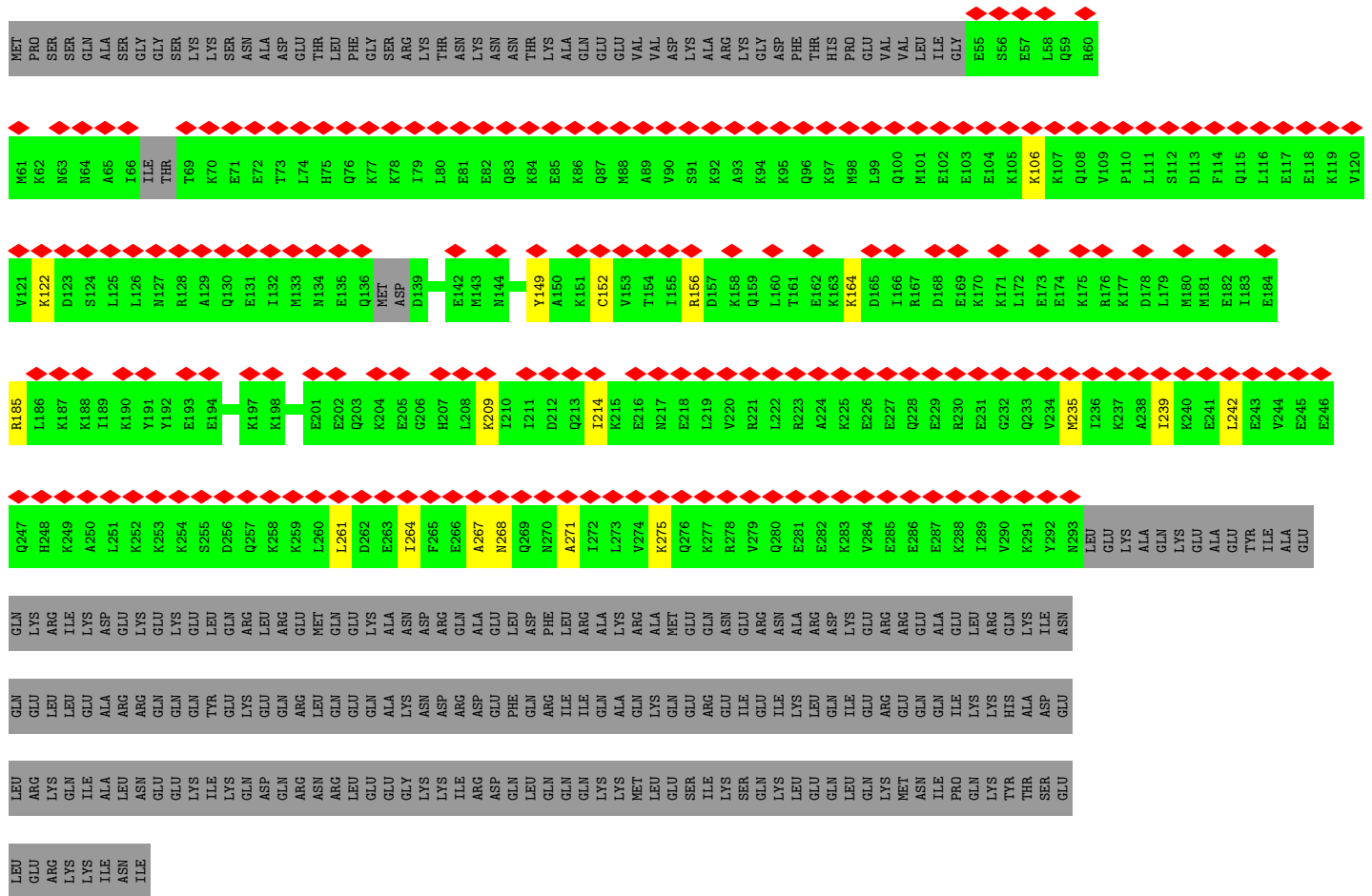
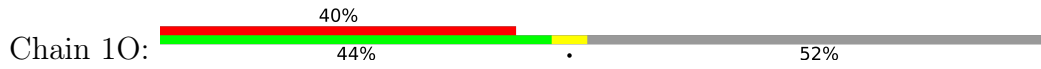




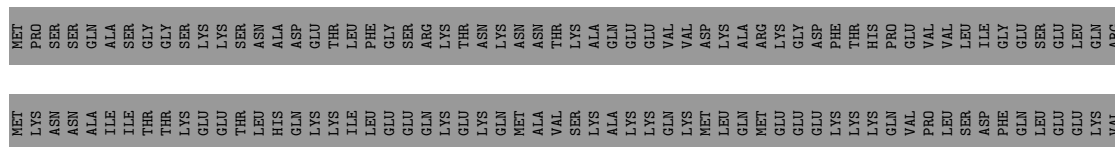




• Molecule 24: Cilia- and flagella-associated protein 45



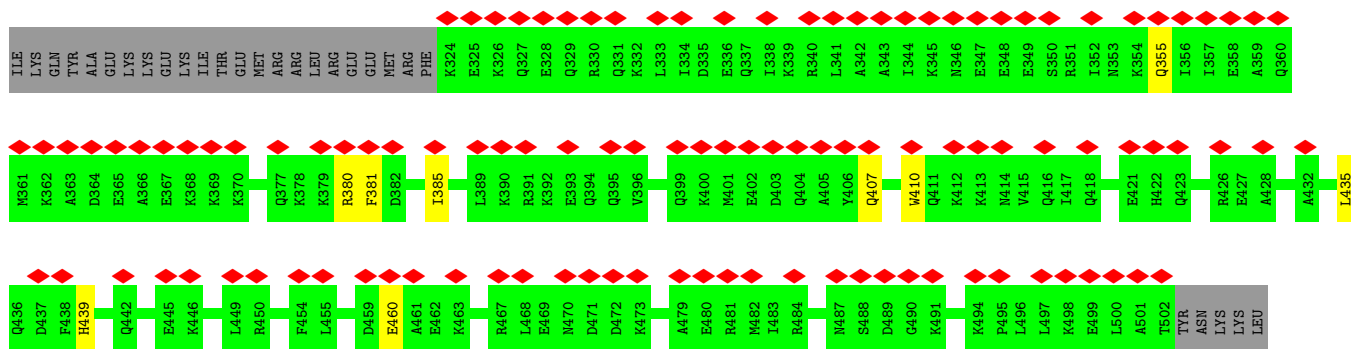
• Molecule 24: Cilia- and flagella-associated protein 45



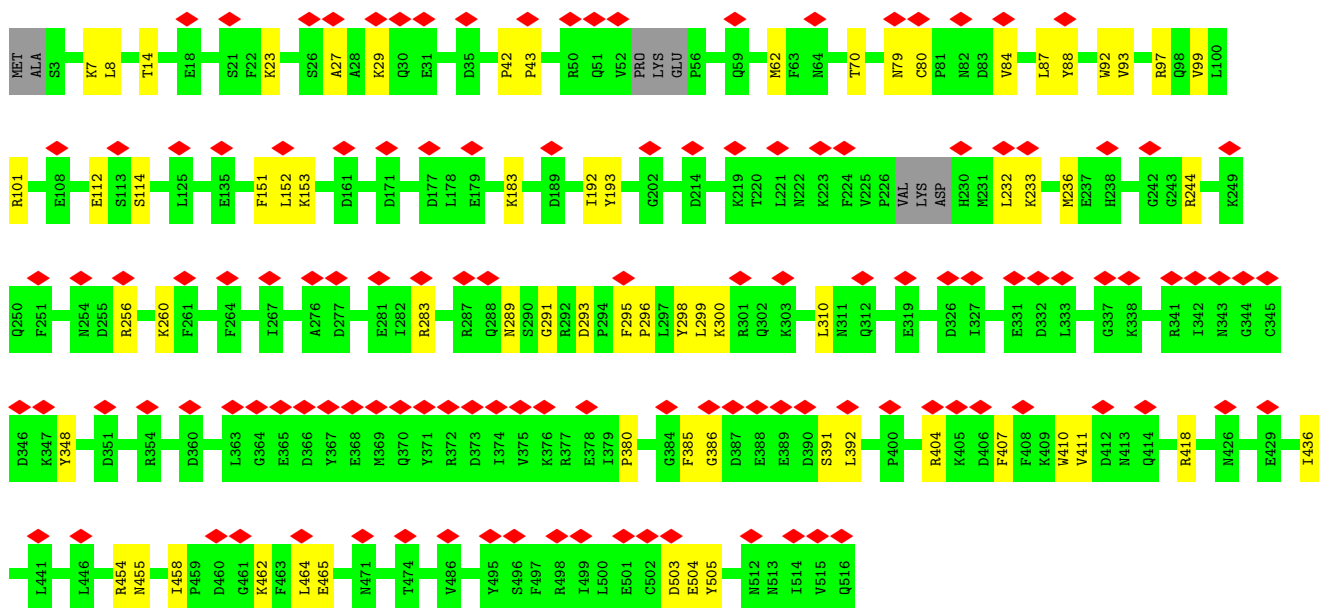
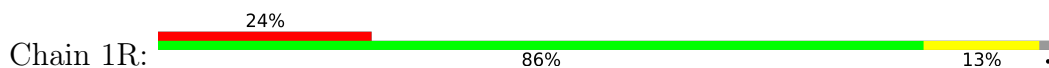




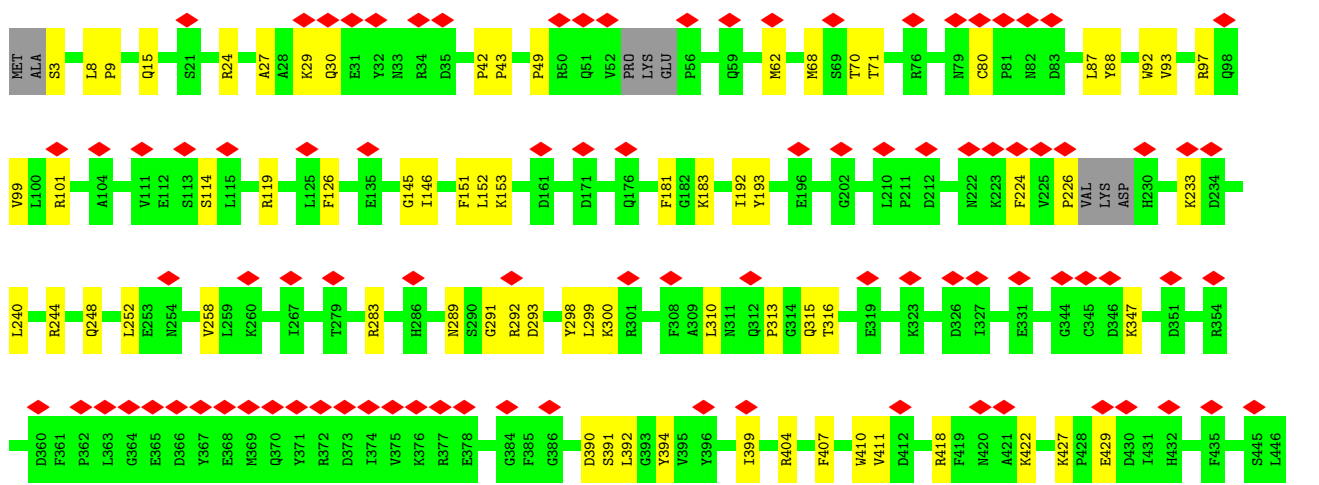
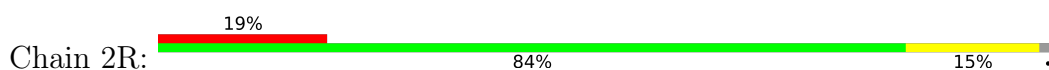




• Molecule 26: RIB72B



• Molecule 26: RIB72B

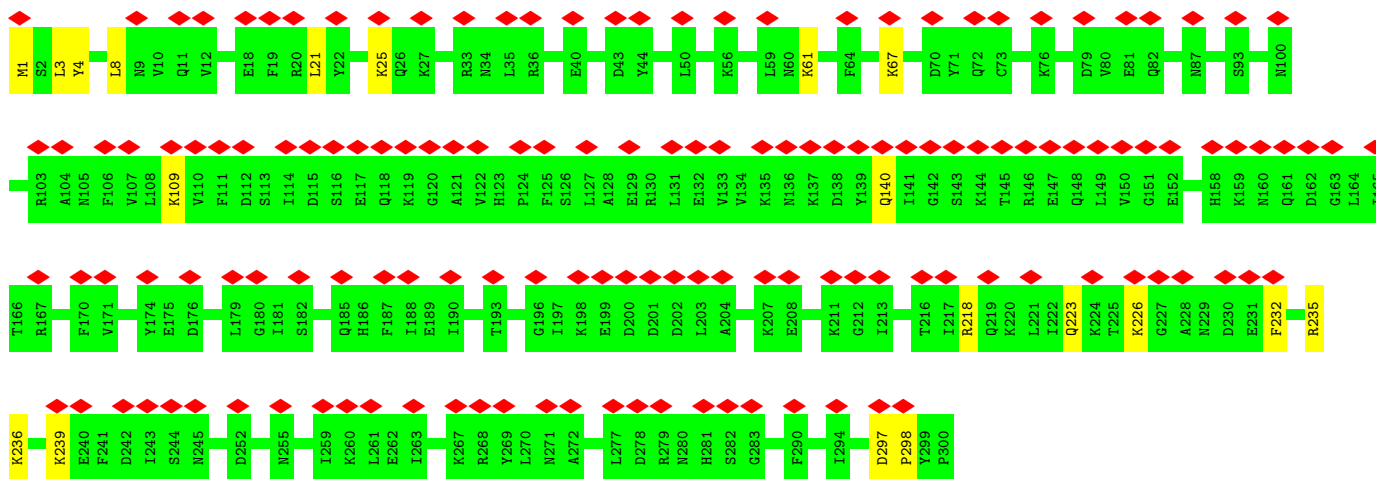




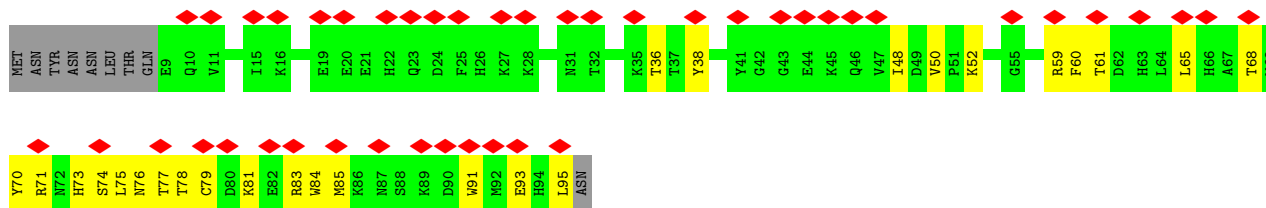




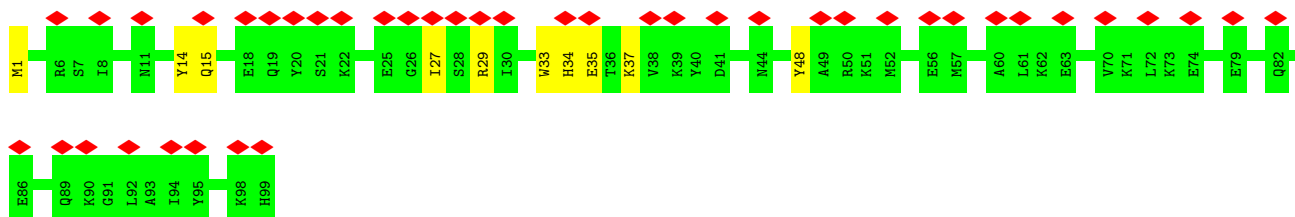
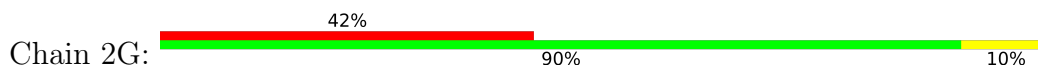
• Molecule 28: RIB35



• Molecule 29: CFAP182B

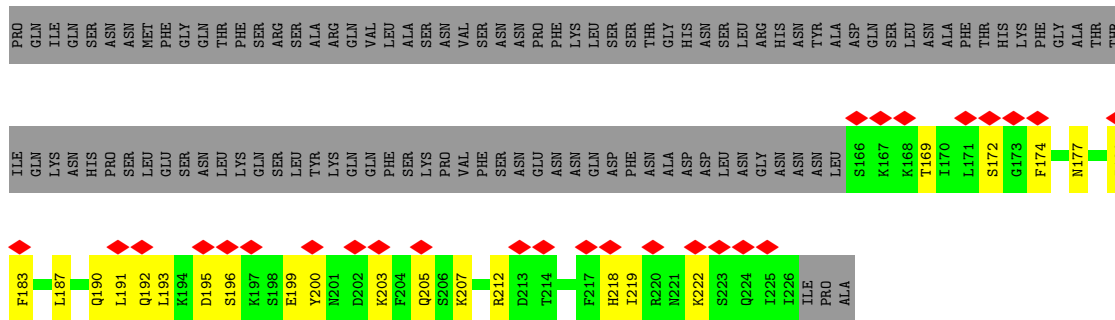


• Molecule 30: Flagellar FliJ protein

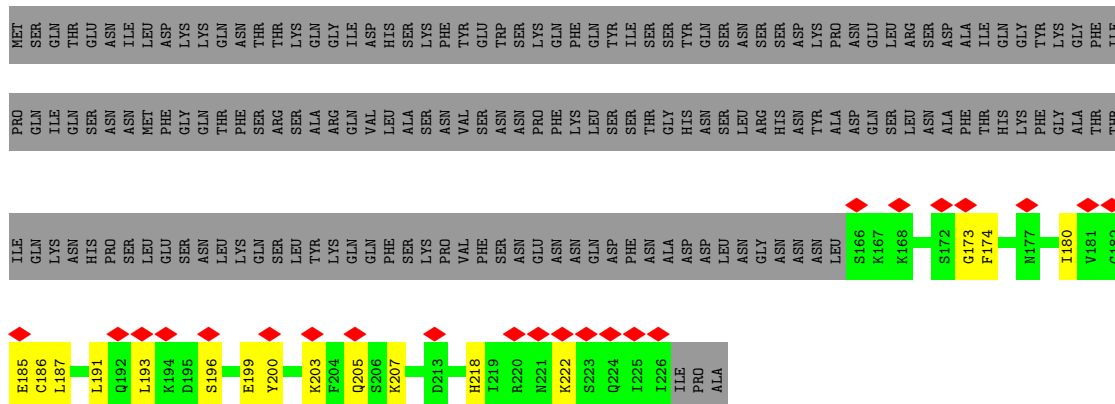


• Molecule 31: RIB27B

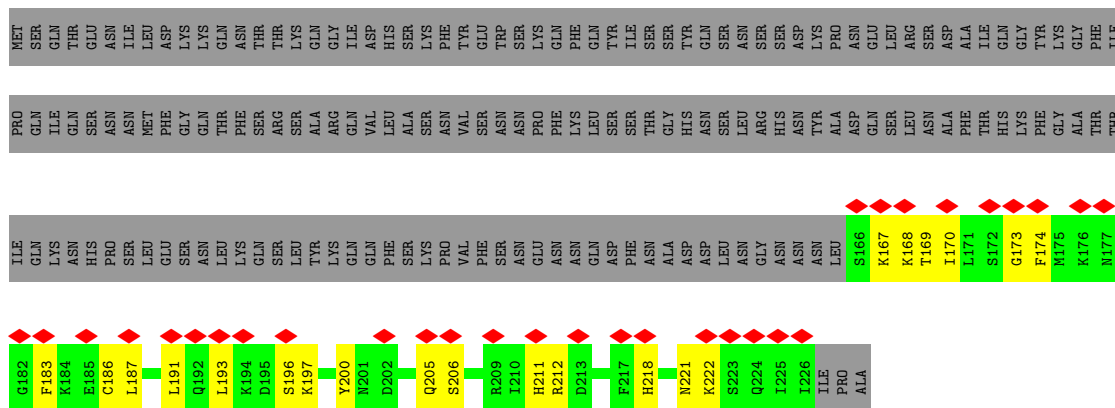




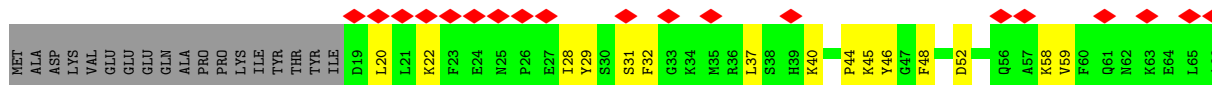
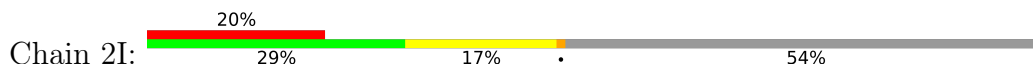
• Molecule 31: RIB27B



• Molecule 31: RIB27B

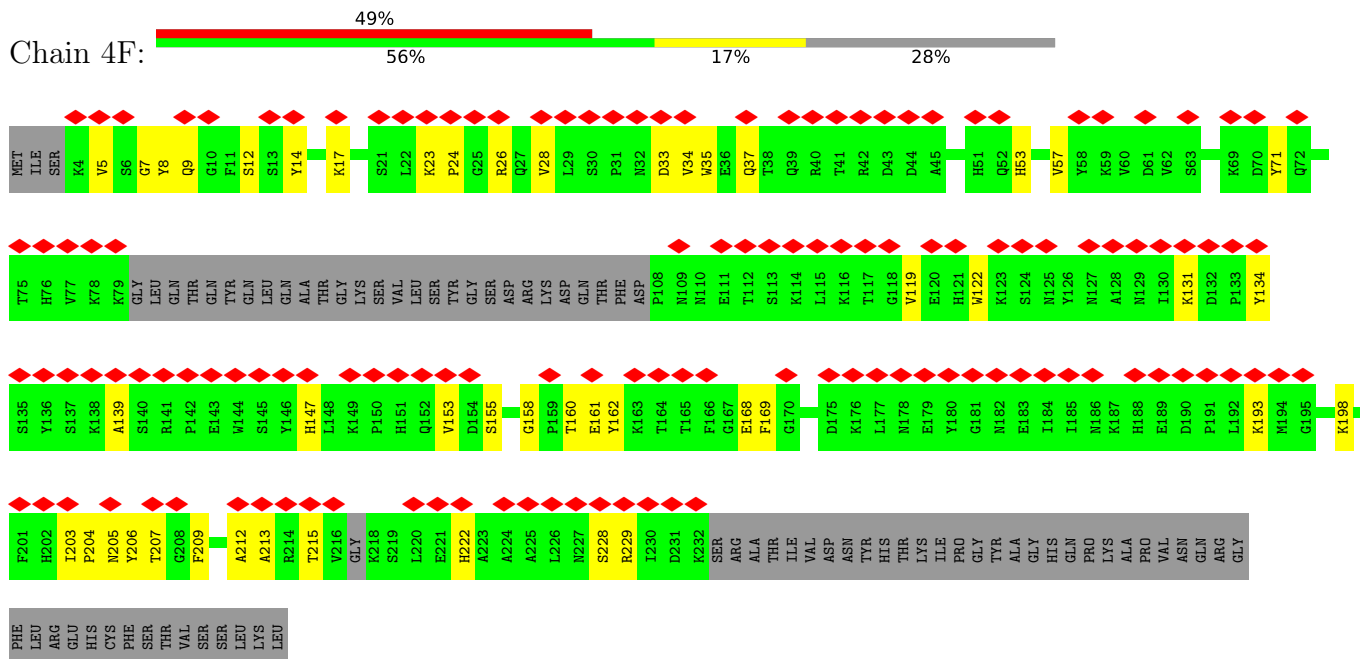


• Molecule 32: STPG2





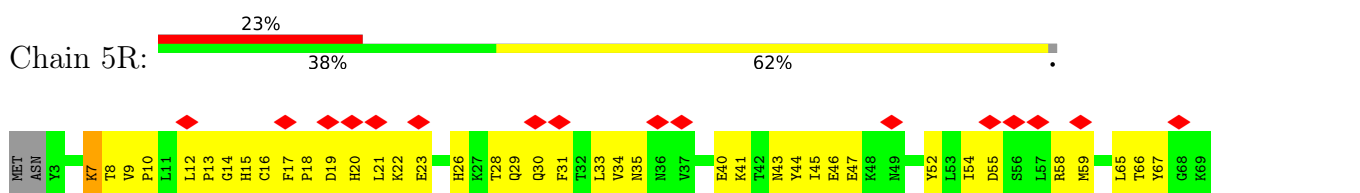
• Molecule 34: CFAP129



• Molecule 35: Flagellar microtugule protofilament ribbon protein



• Molecule 35: Flagellar microtugule protofilament ribbon protein



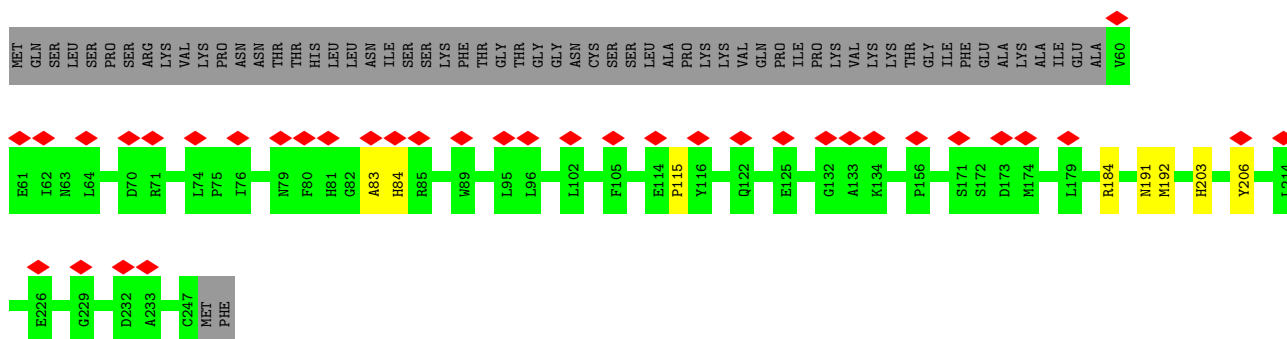
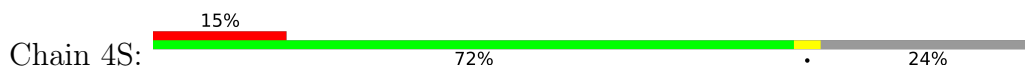




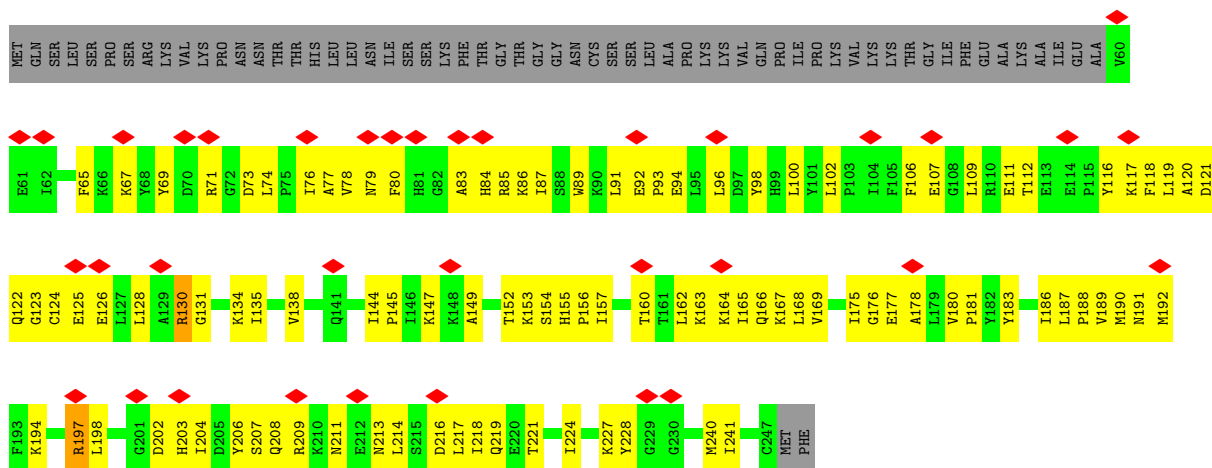




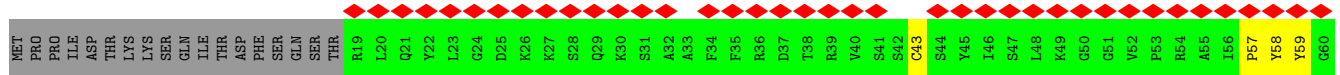
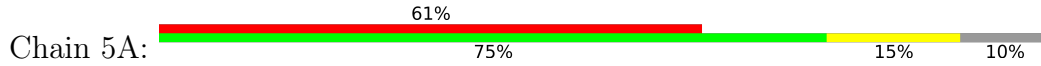
• Molecule 36: Parkin co-regulated protein PACRGB

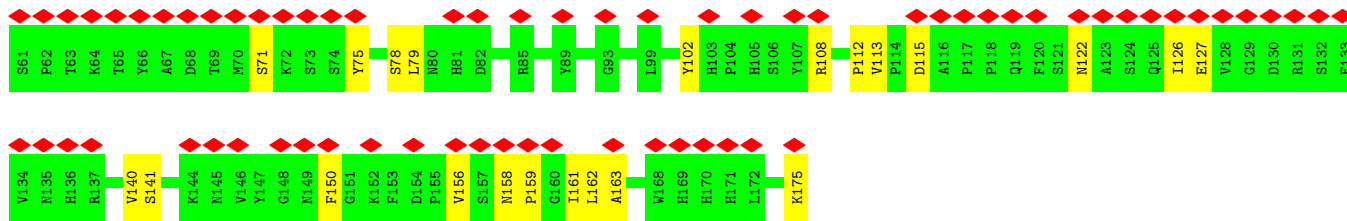


• Molecule 36: Parkin co-regulated protein PACRGB

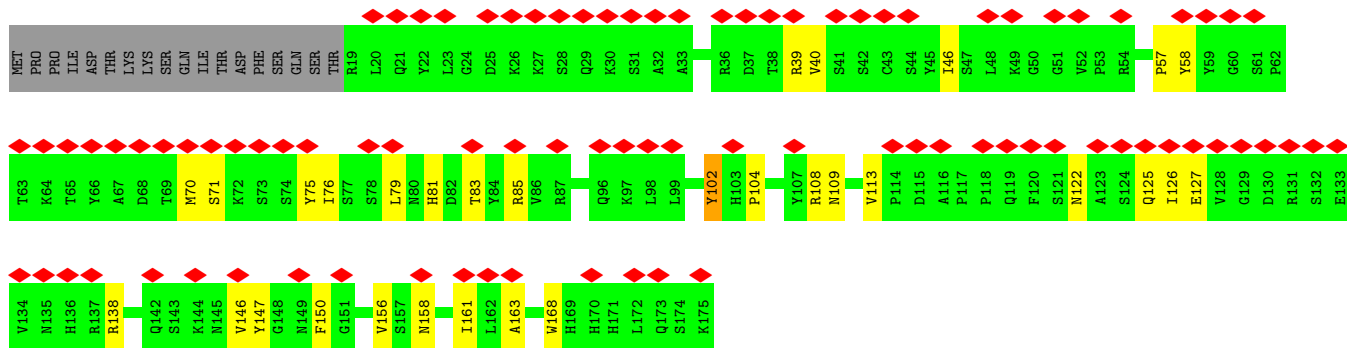
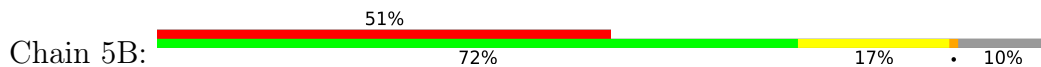


• Molecule 37: OJ2

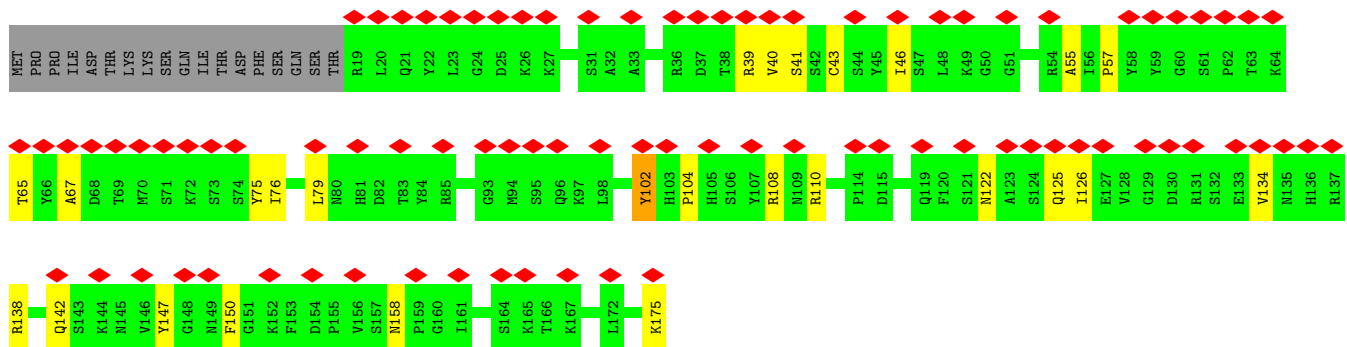
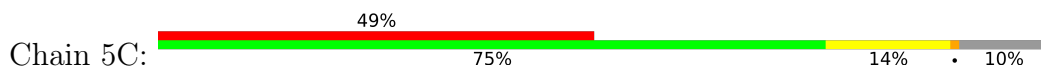




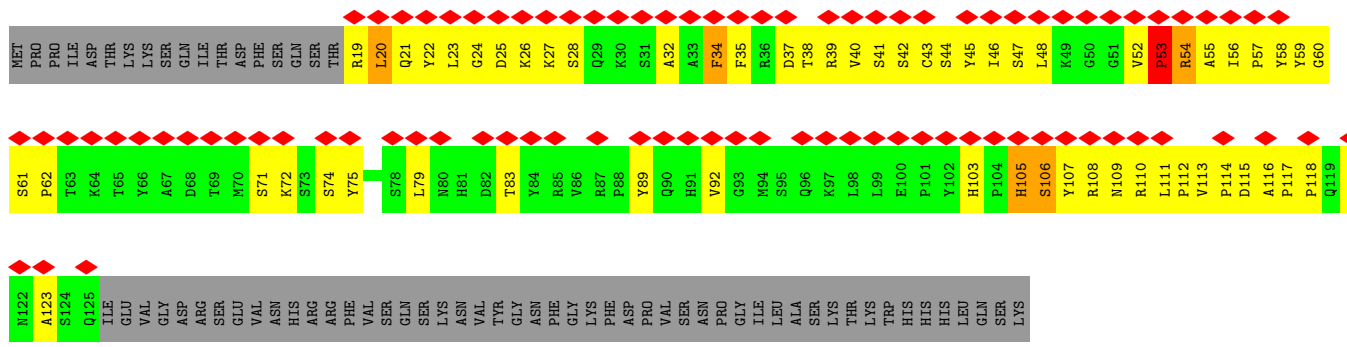
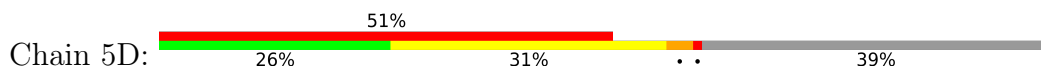
• Molecule 37: OJ2



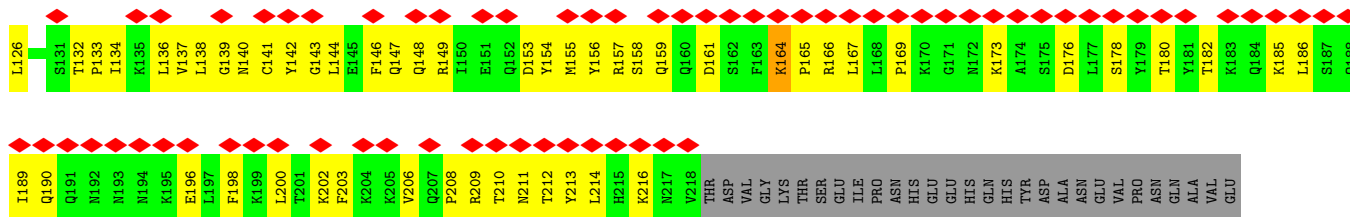
• Molecule 37: OJ2



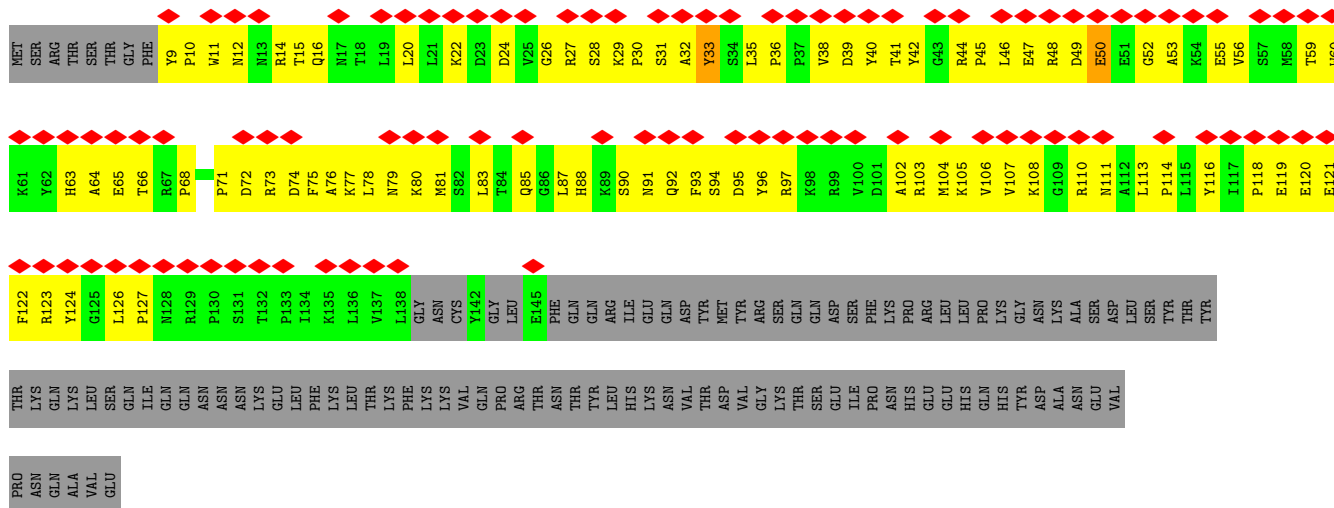
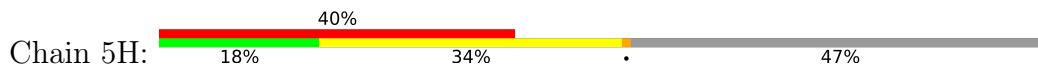
• Molecule 37: OJ2



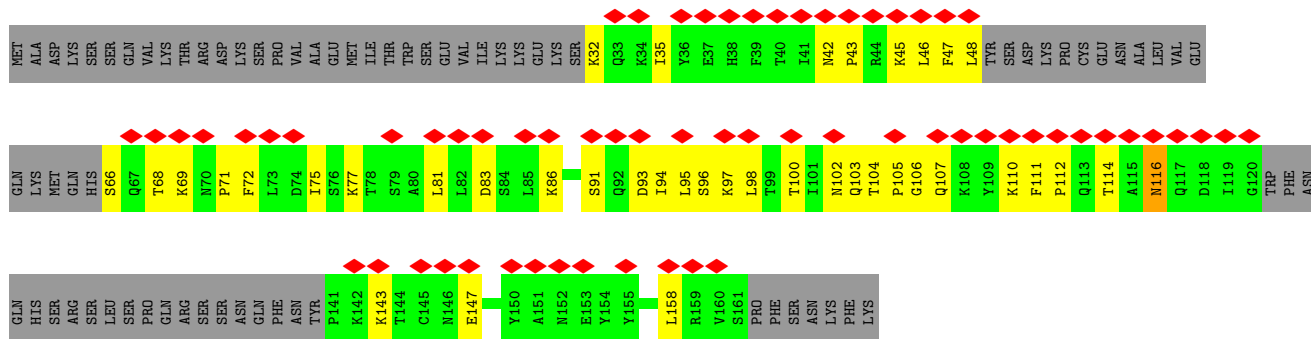
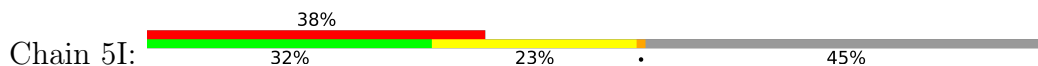




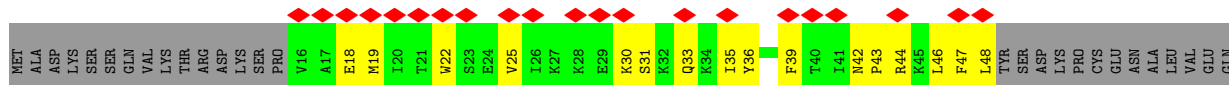
• Molecule 38: CFAP77A



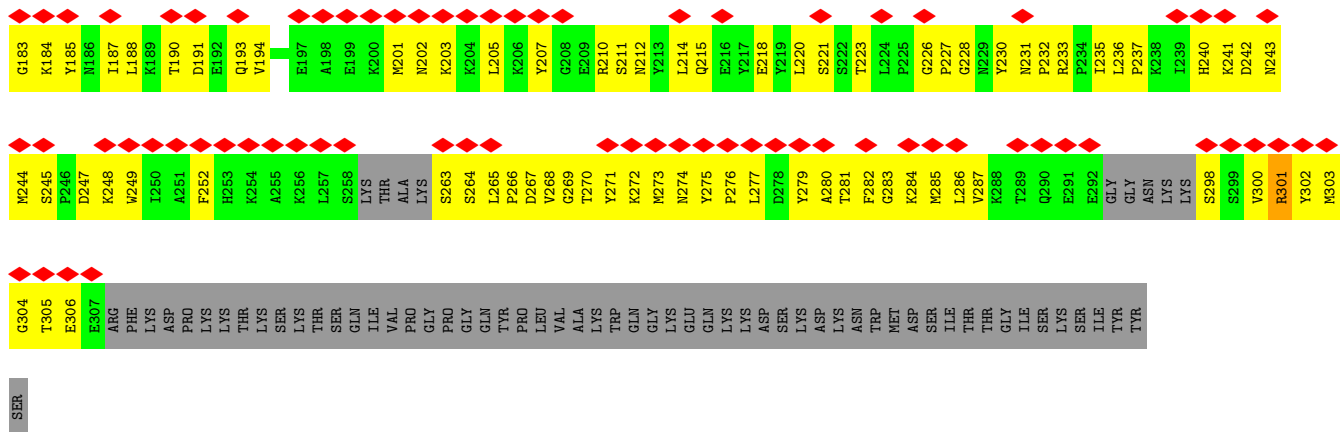
• Molecule 39: OJ3



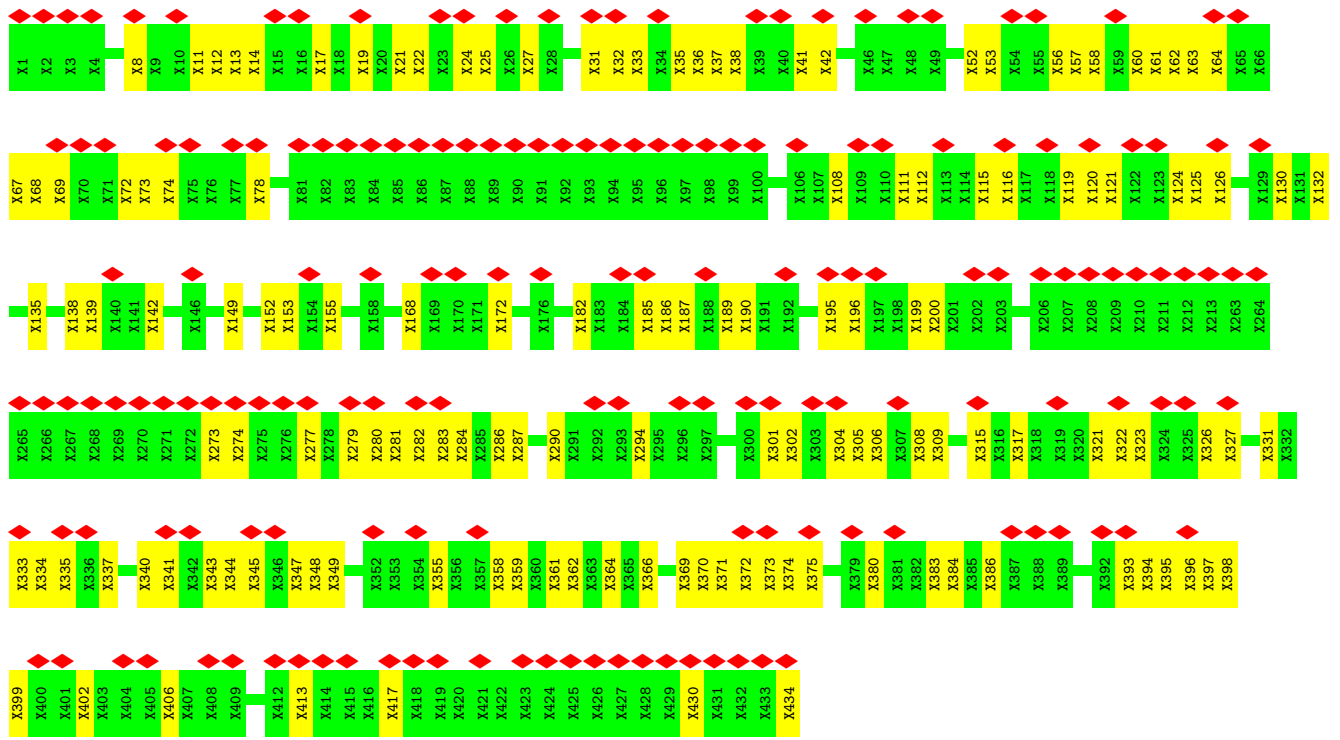
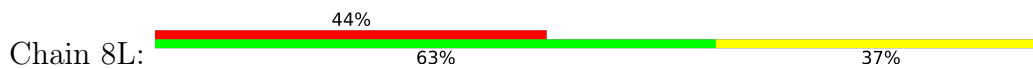
• Molecule 39: OJ3



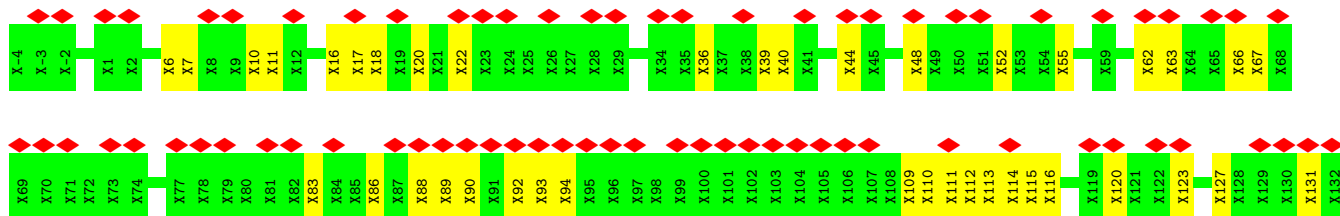


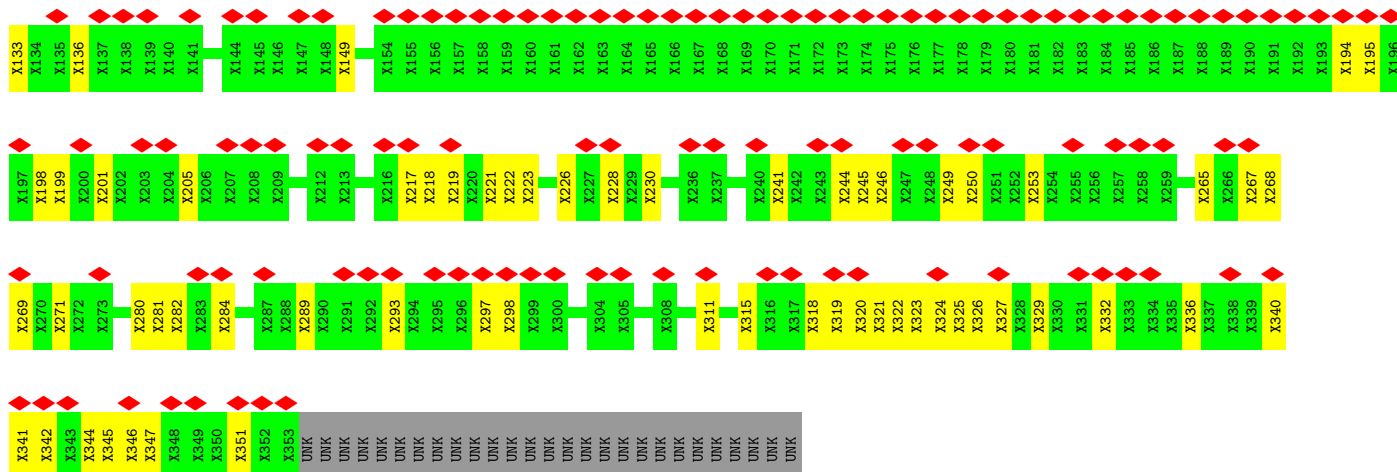


● Molecule 42: CFAP112B

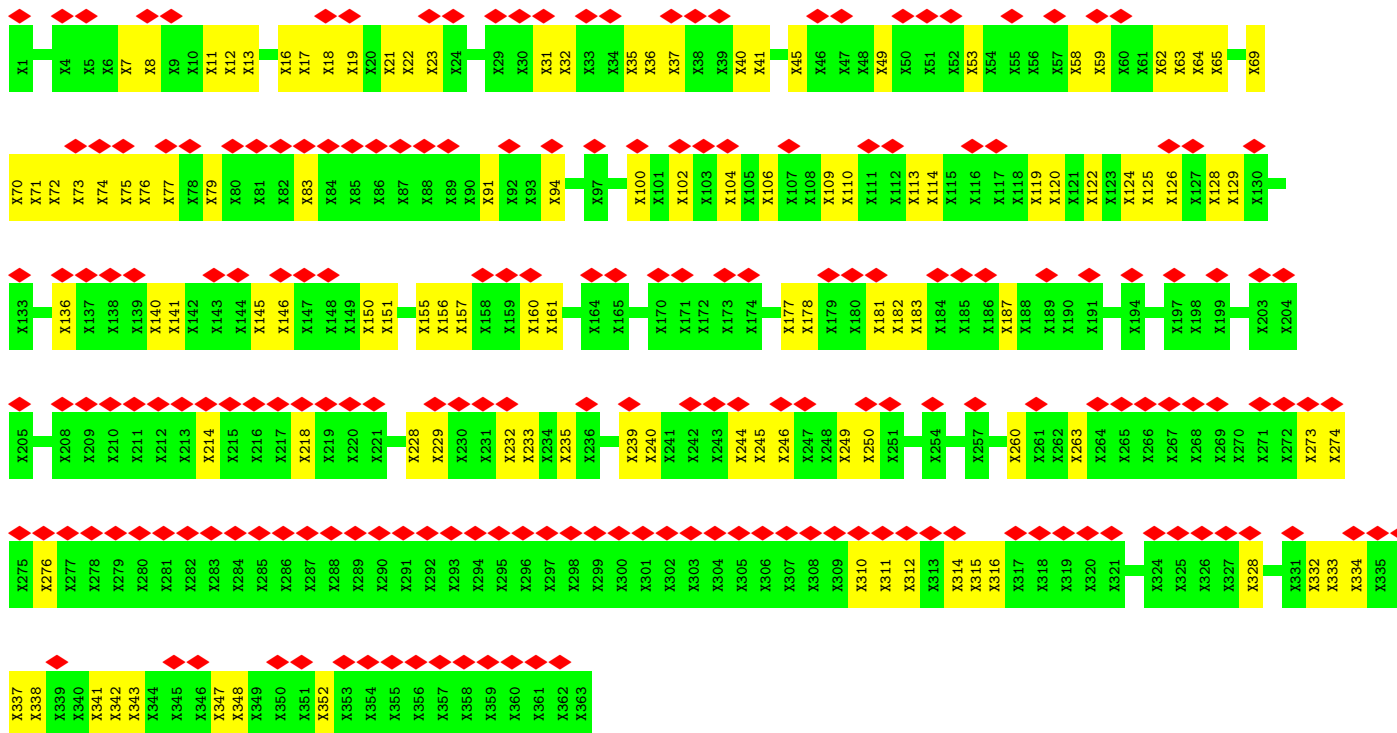


● Molecule 42: CFAP112B

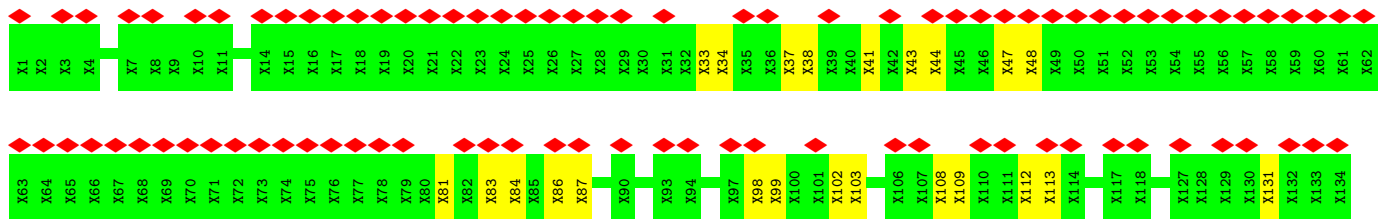
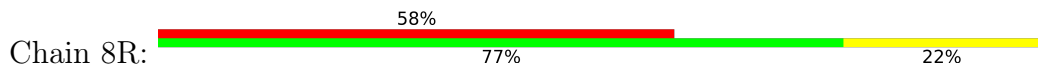




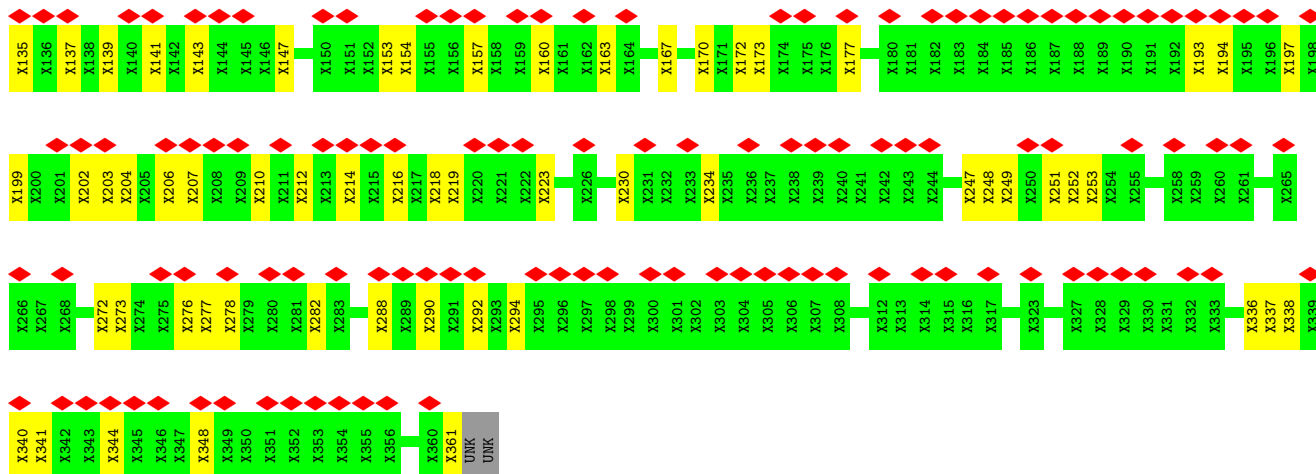
• Molecule 43: CFAP112A



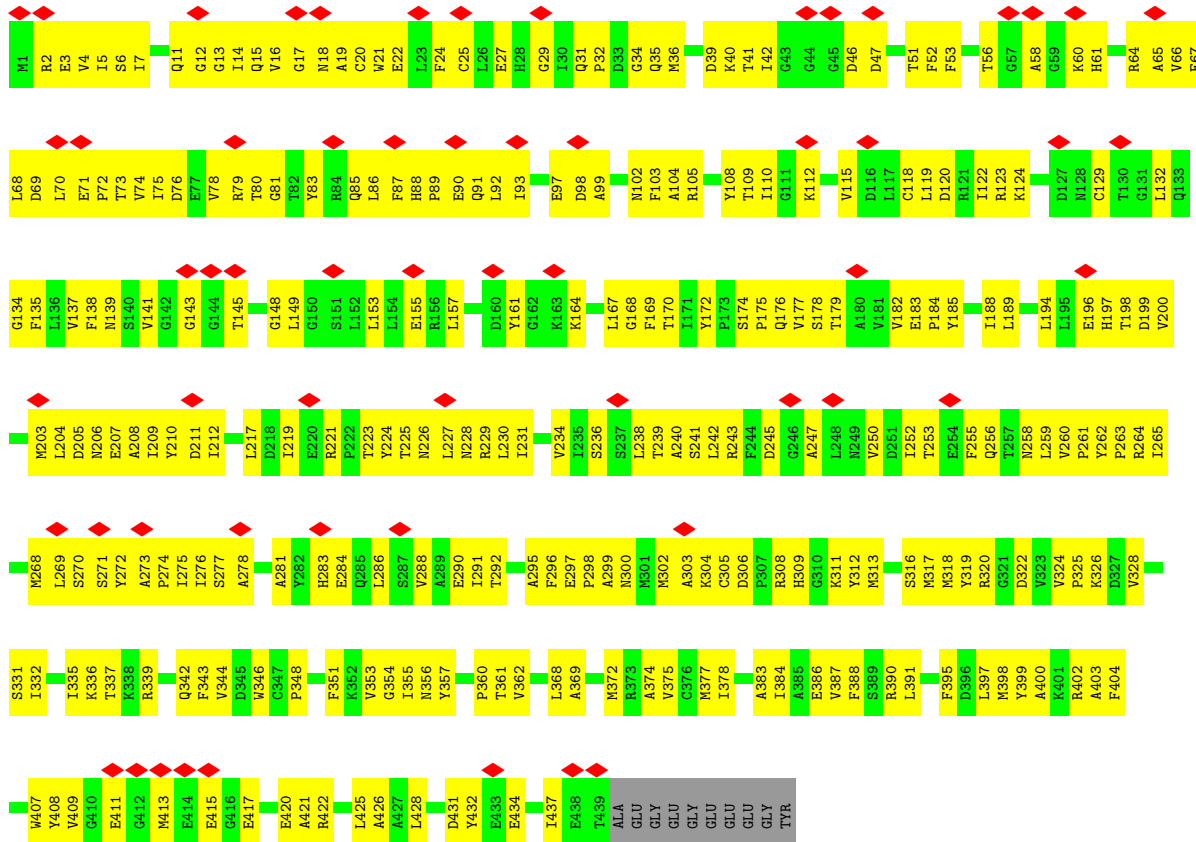
• Molecule 43: CFAP112A





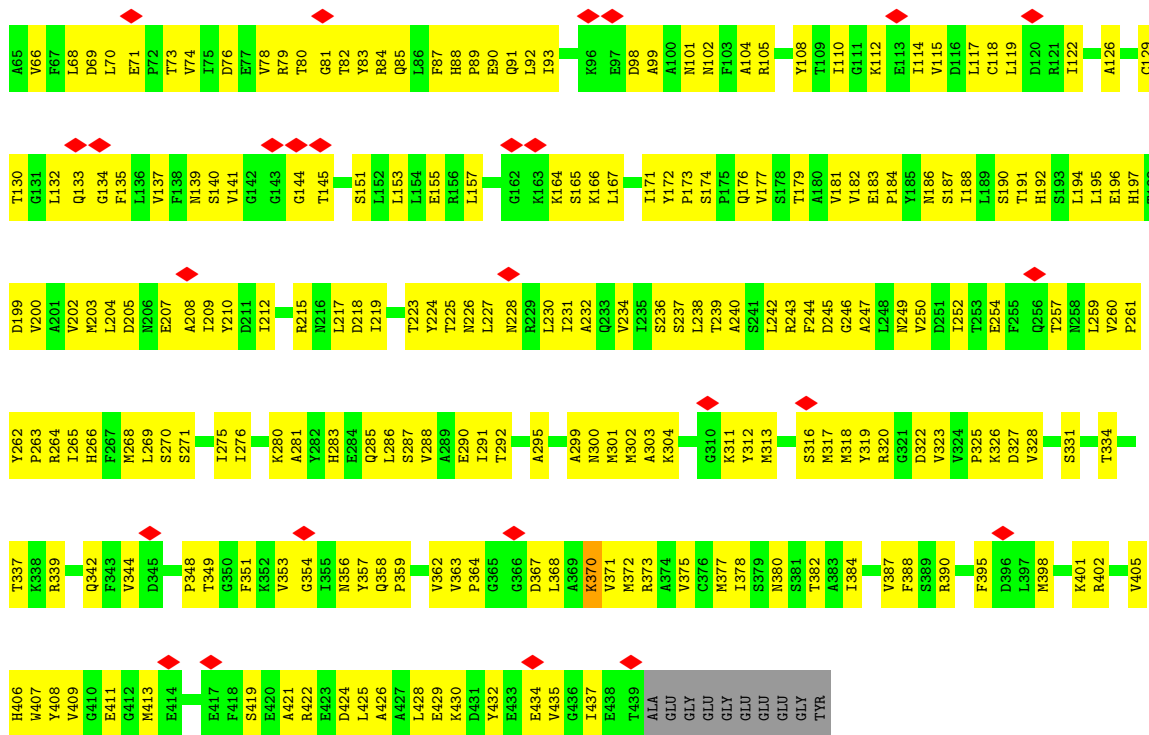


• Molecule 44: Tubulin alpha chain



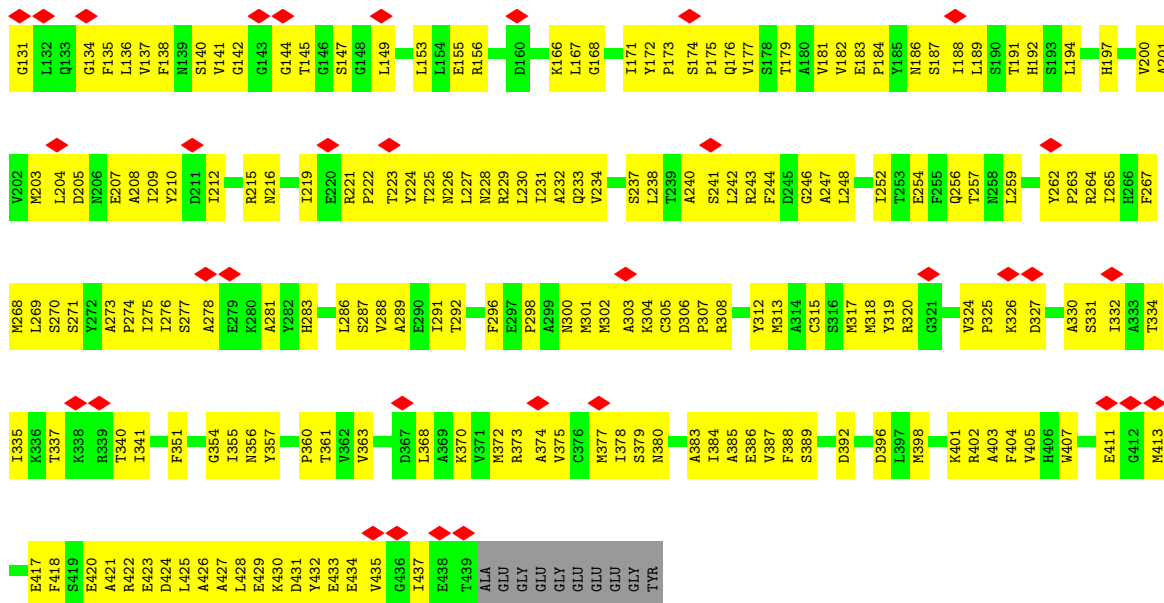
• Molecule 44: Tubulin alpha chain



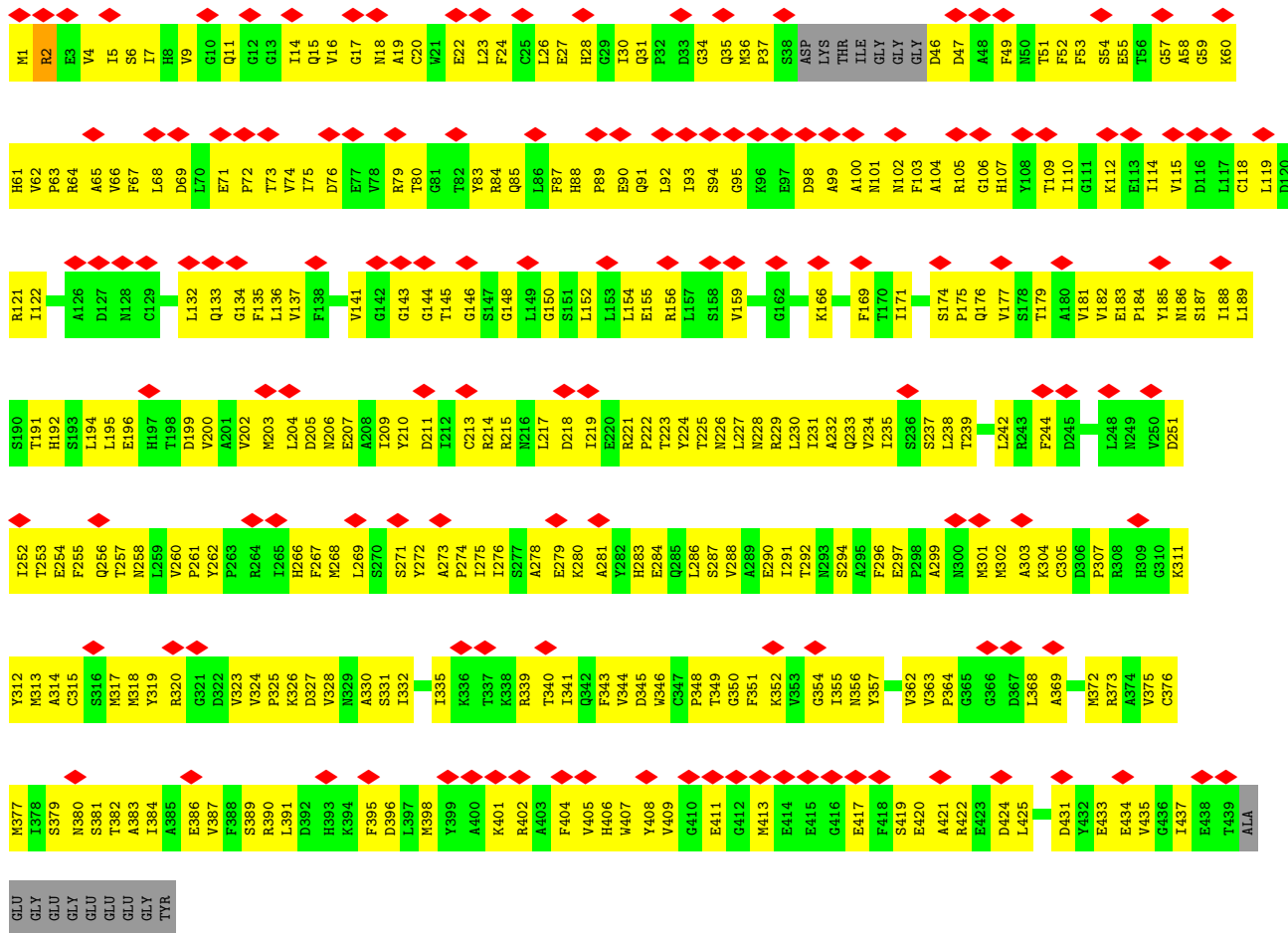








• Molecule 44: Tubulin alpha chain



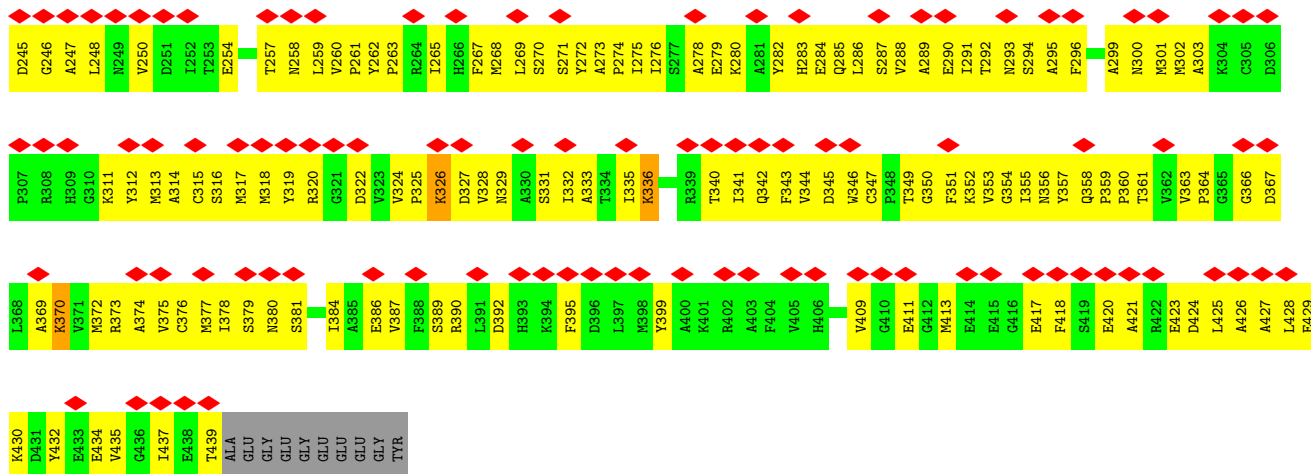




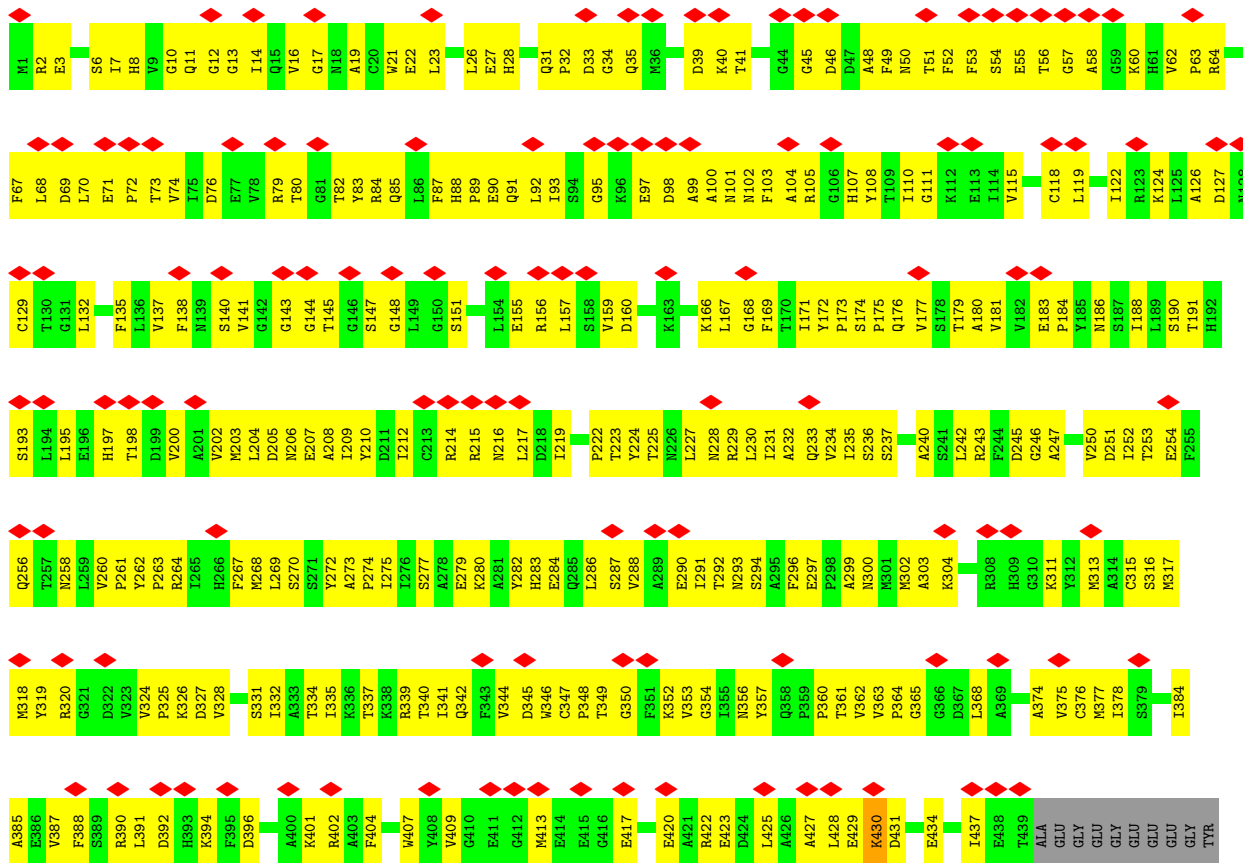






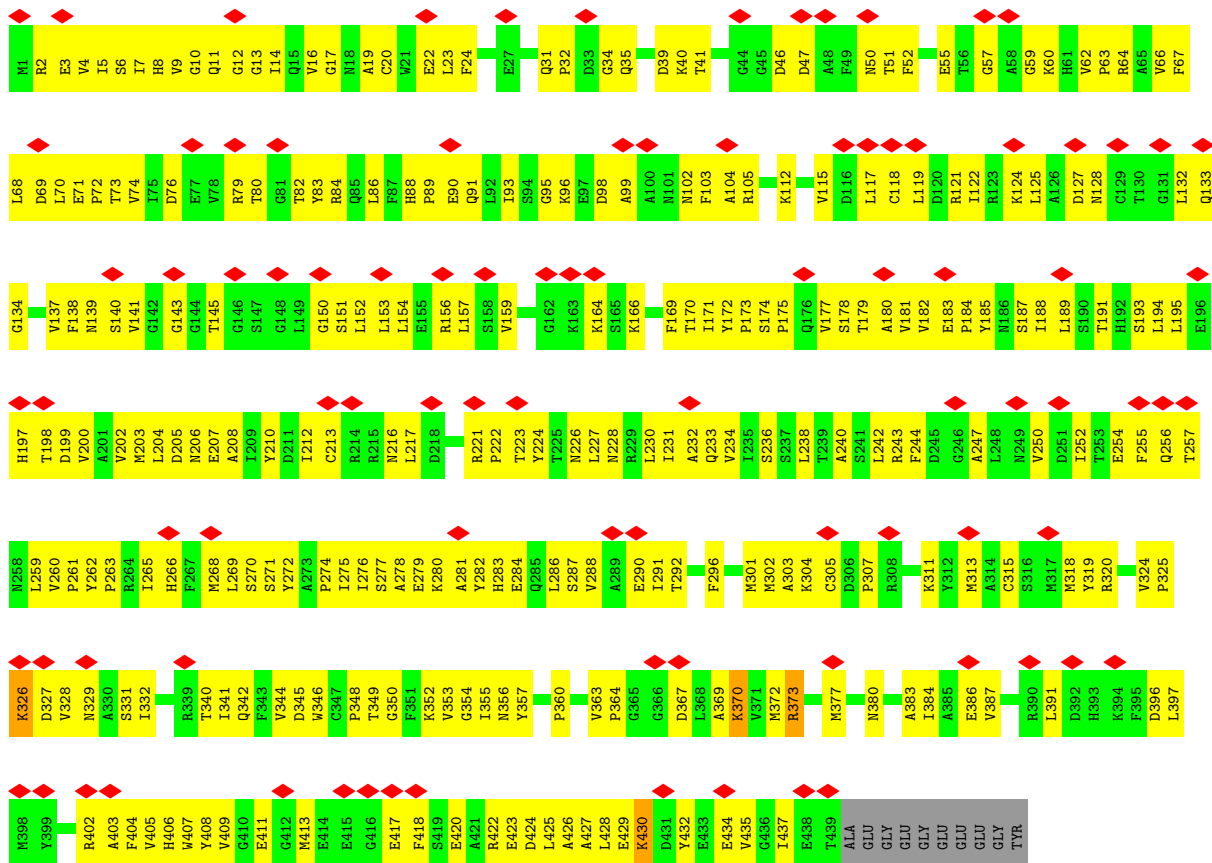


• Molecule 44: Tubulin alpha chain

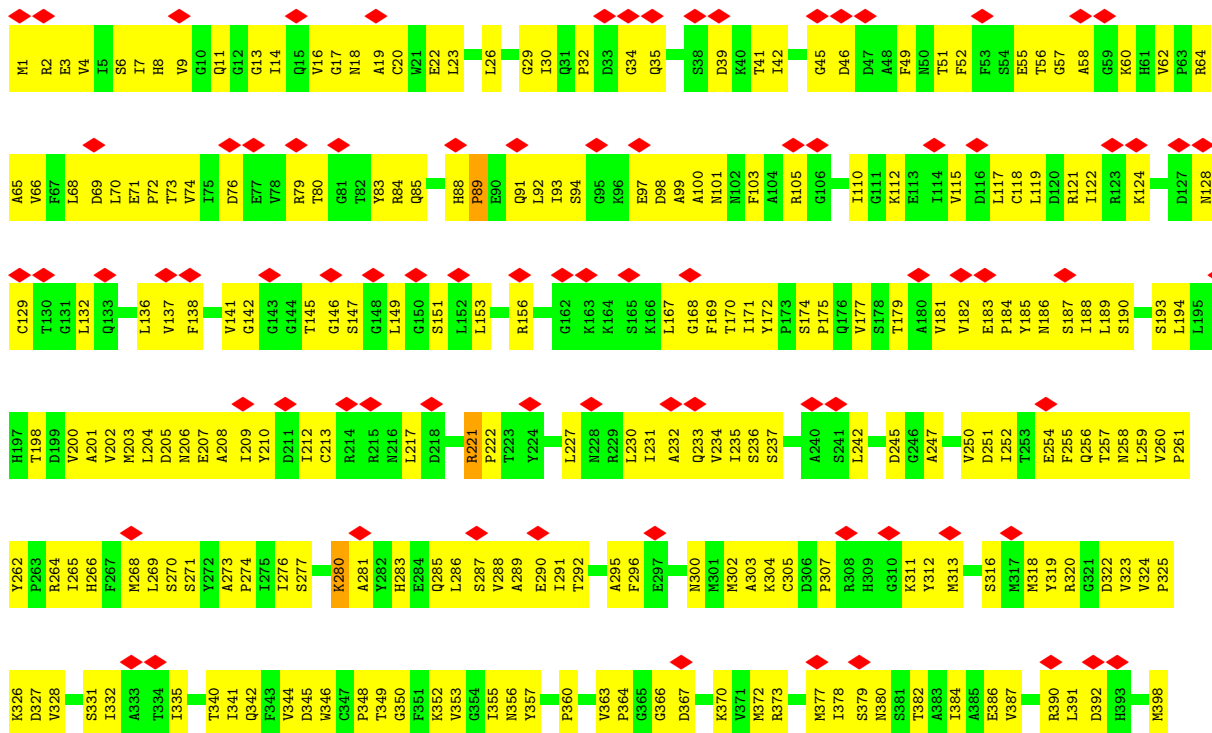


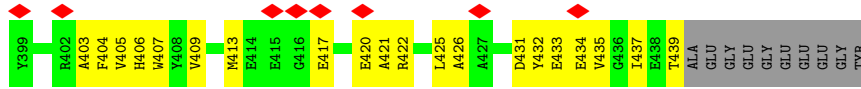
• Molecule 44: Tubulin alpha chain



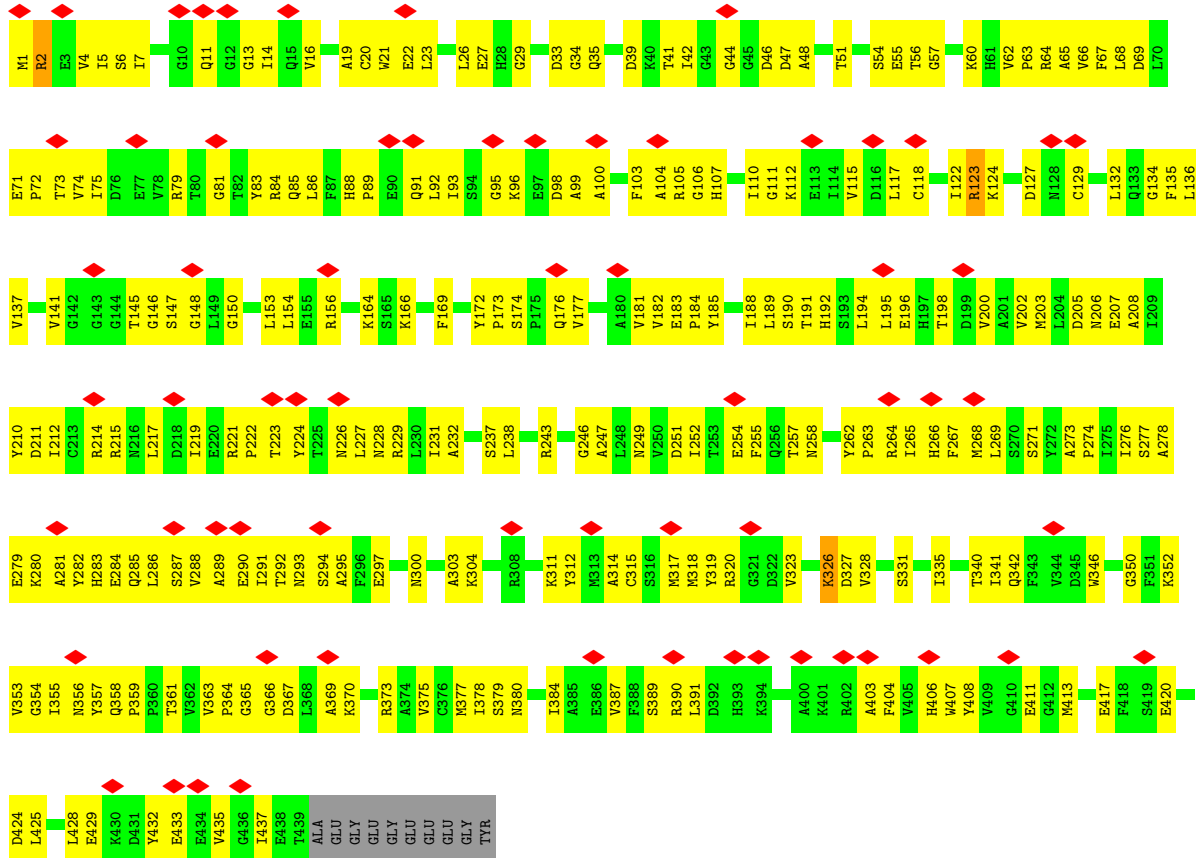
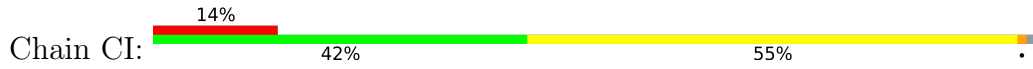


• Molecule 44: Tubulin alpha chain

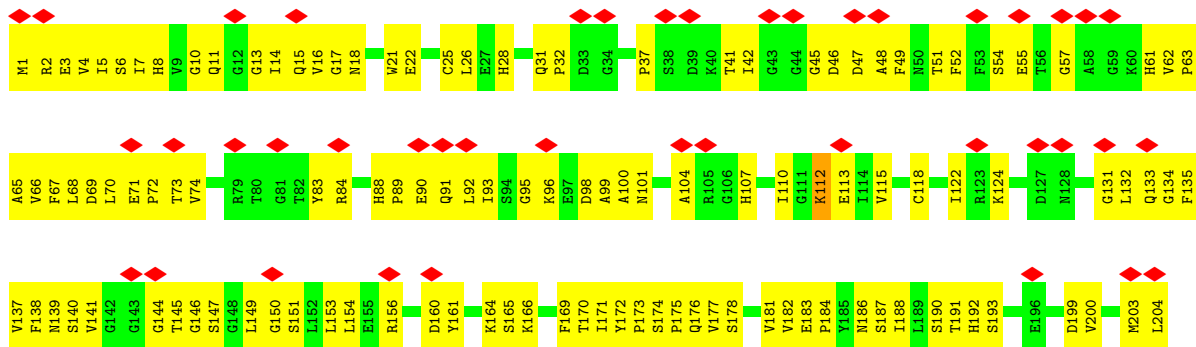


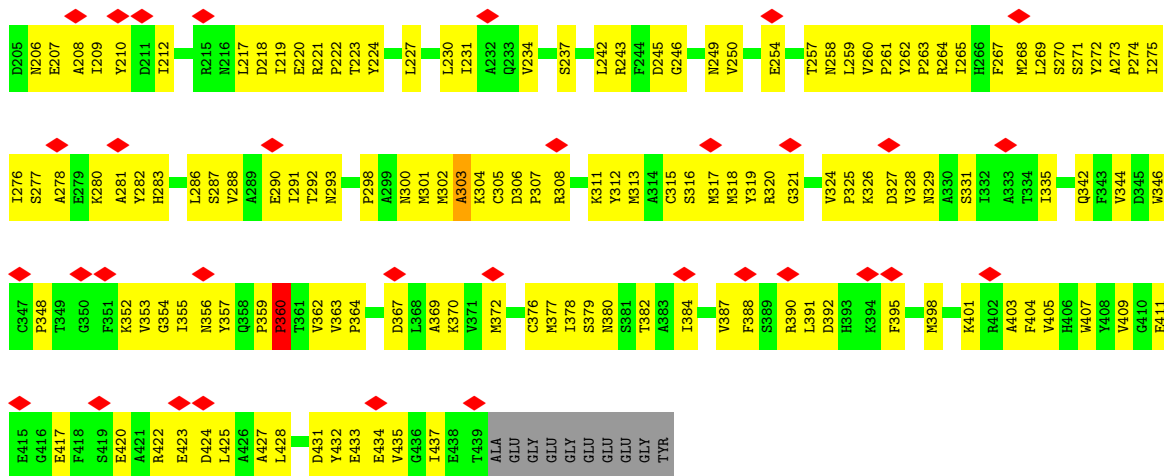


• Molecule 44: Tubulin alpha chain

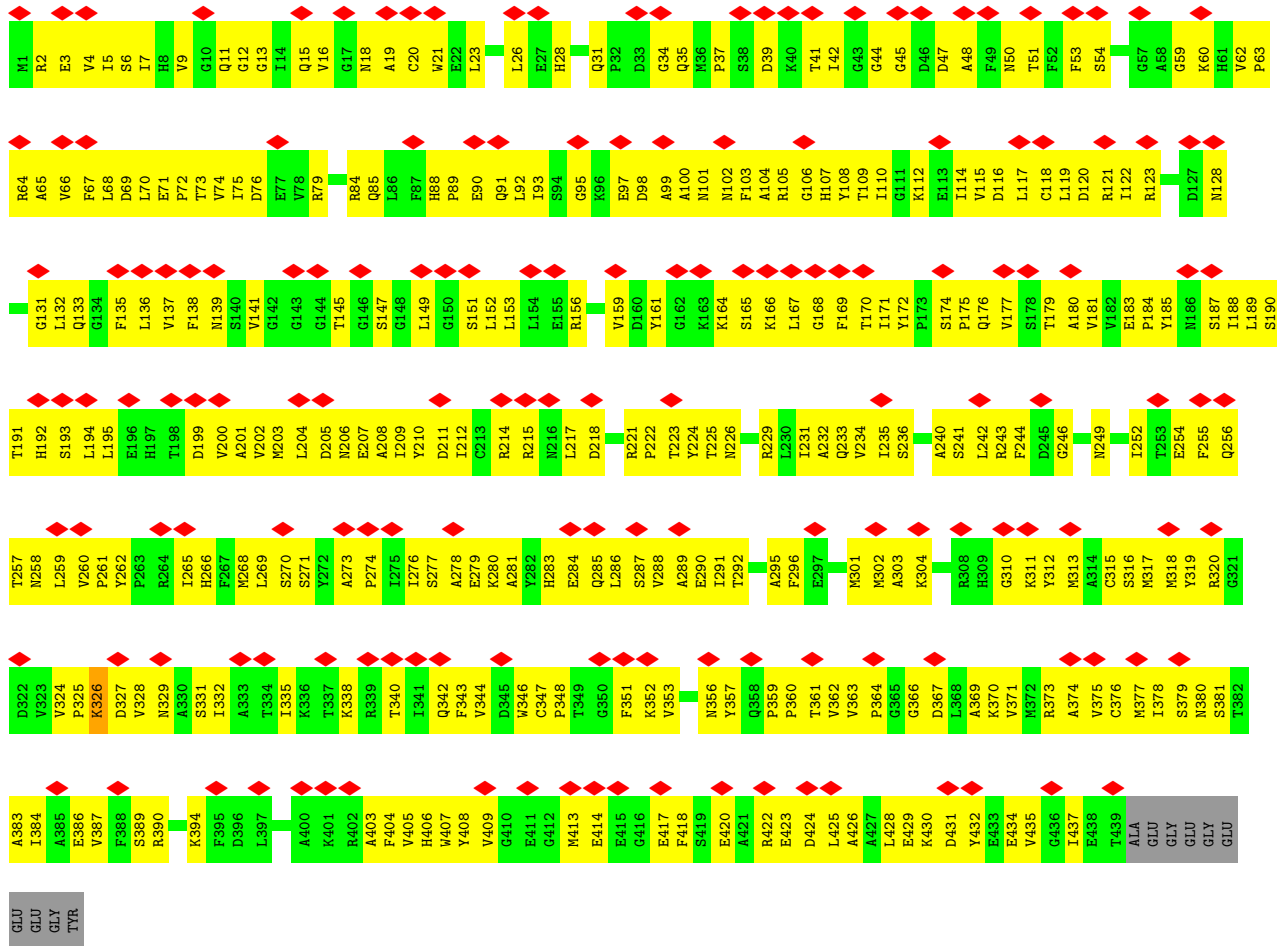


• Molecule 44: Tubulin alpha chain





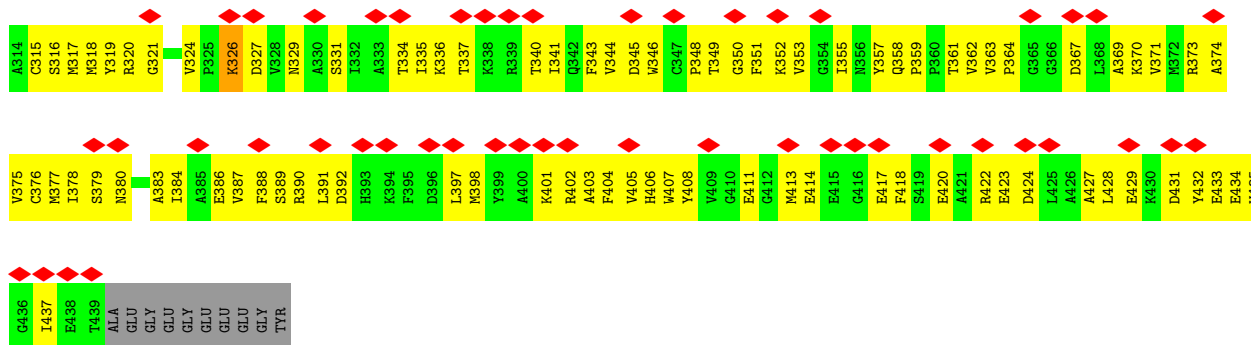
• Molecule 44: Tubulin alpha chain



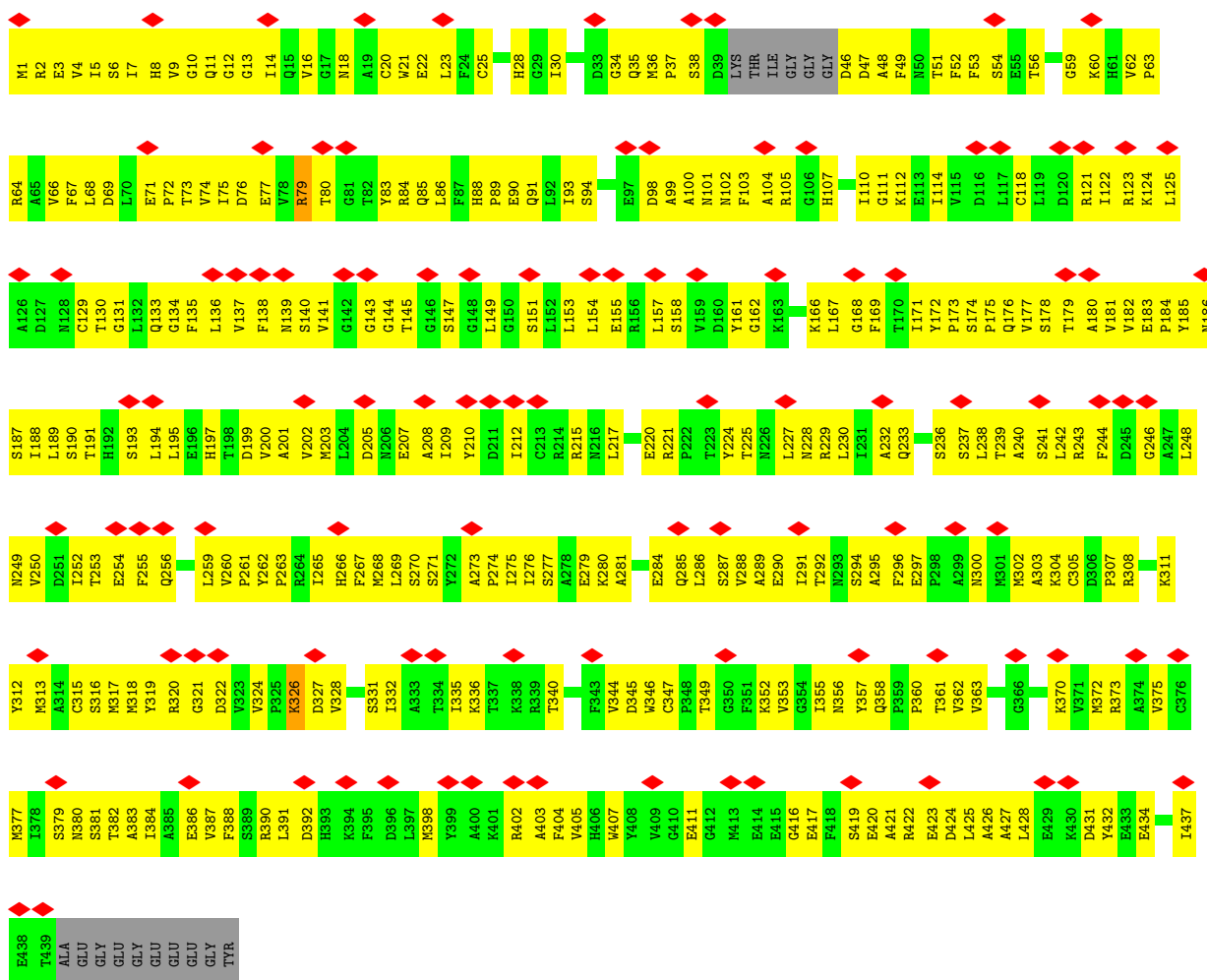
• Molecule 44: Tubulin alpha chain





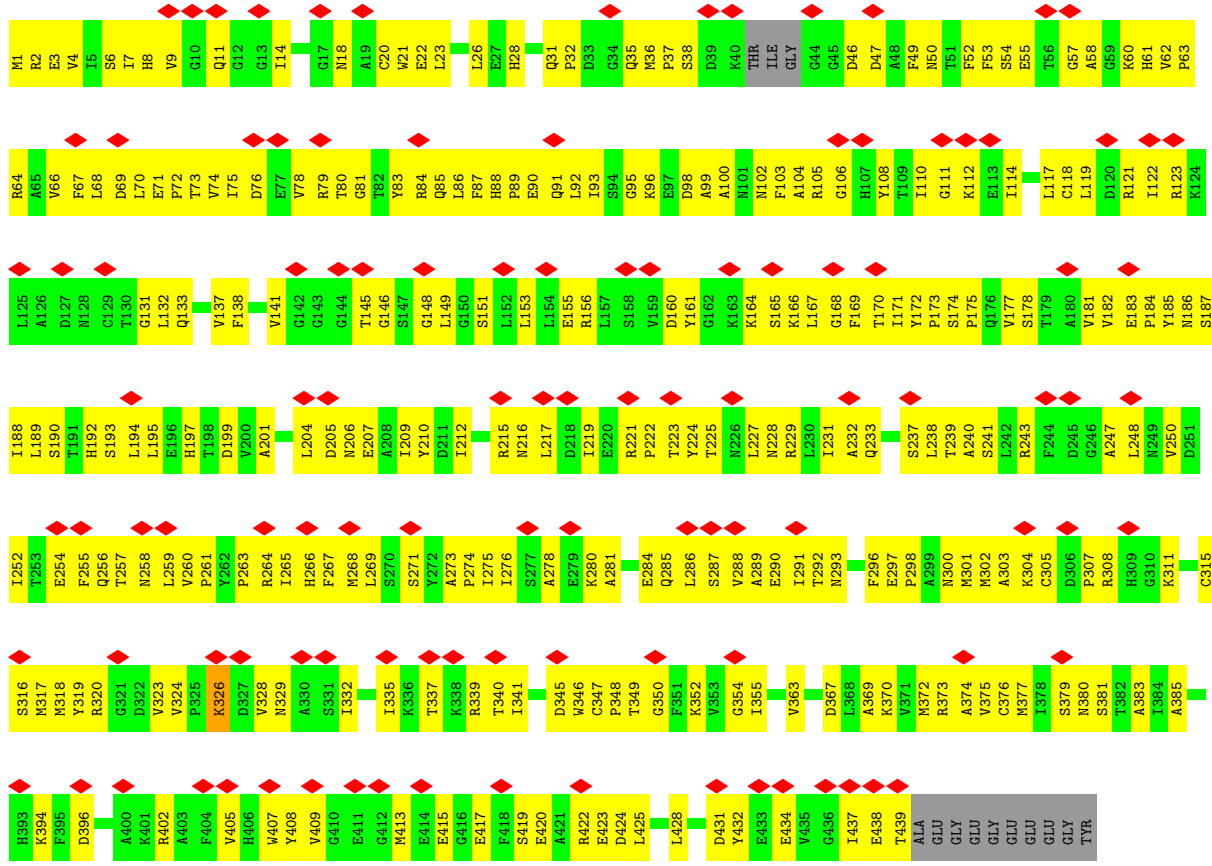


• Molecule 44: Tubulin alpha chain

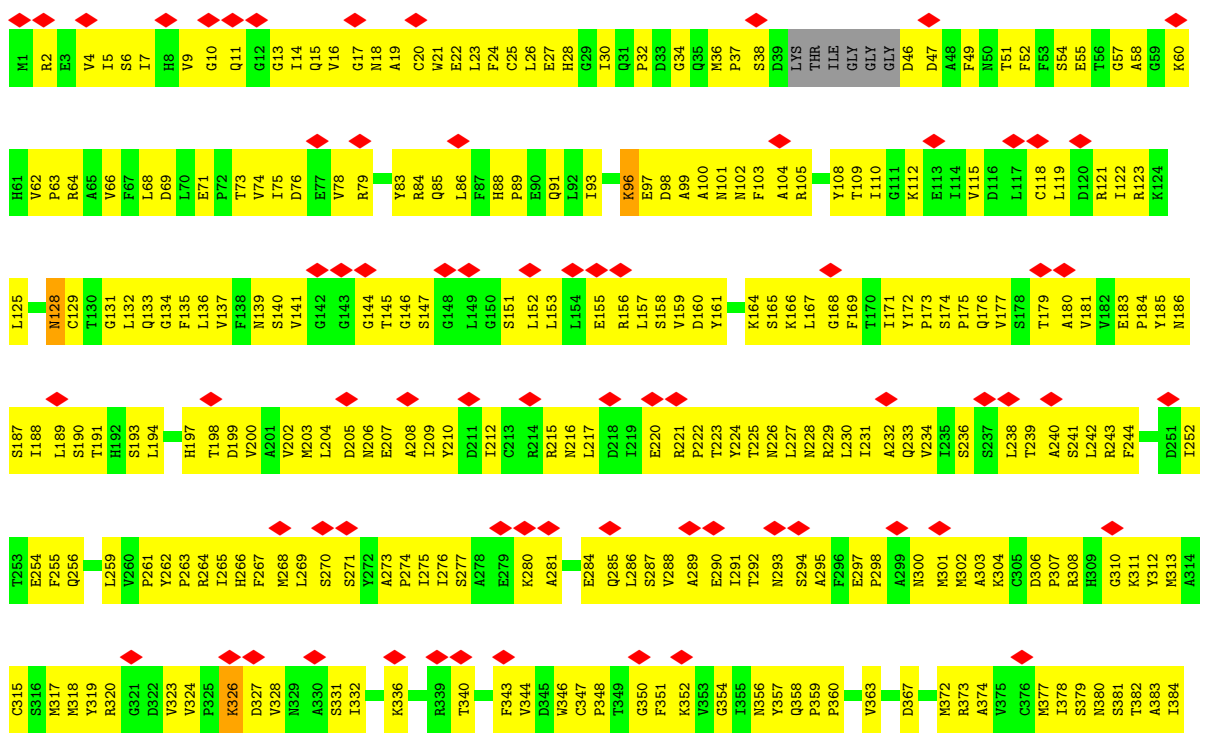


• Molecule 44: Tubulin alpha chain

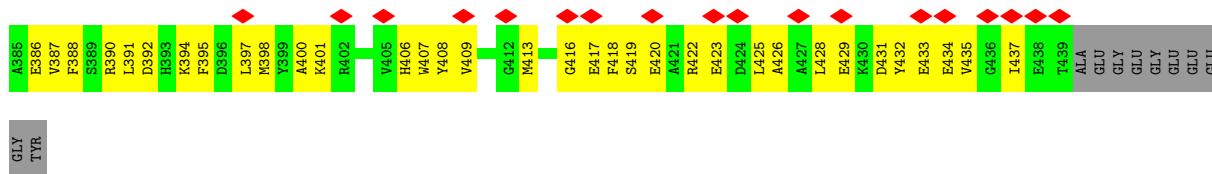




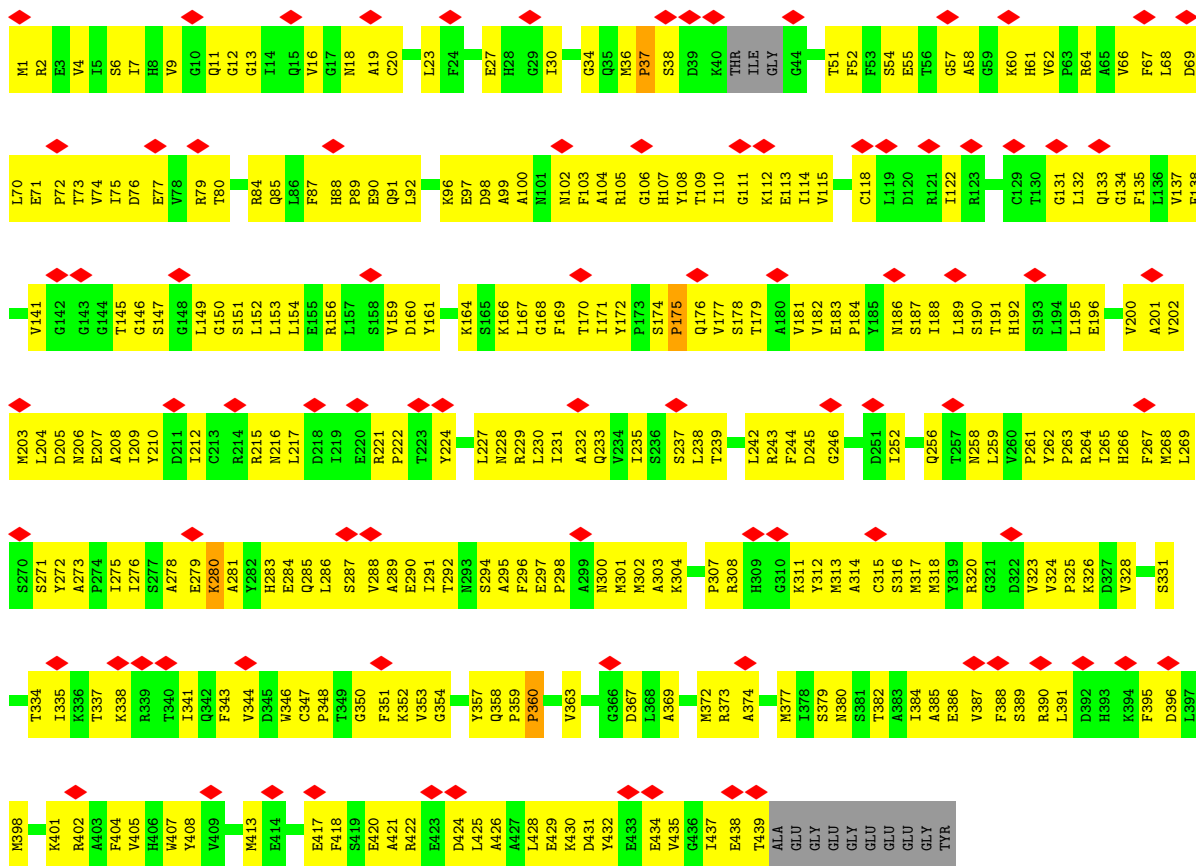
• Molecule 44: Tubulin alpha chain



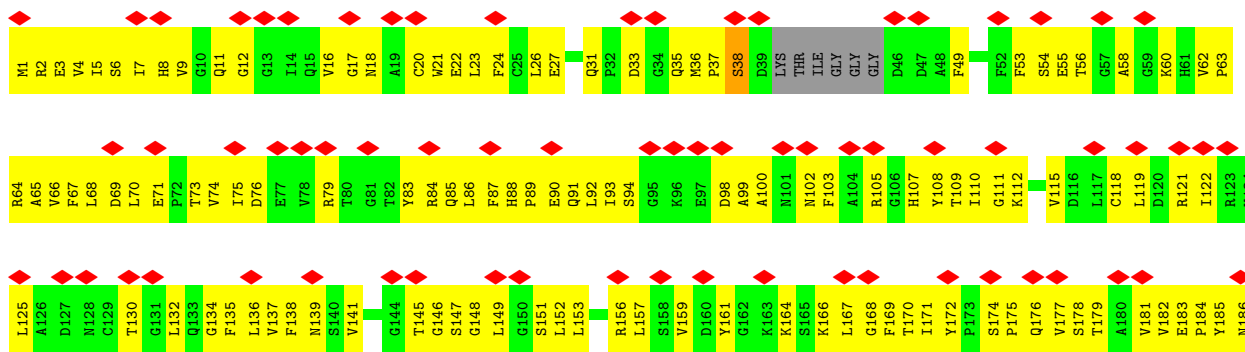


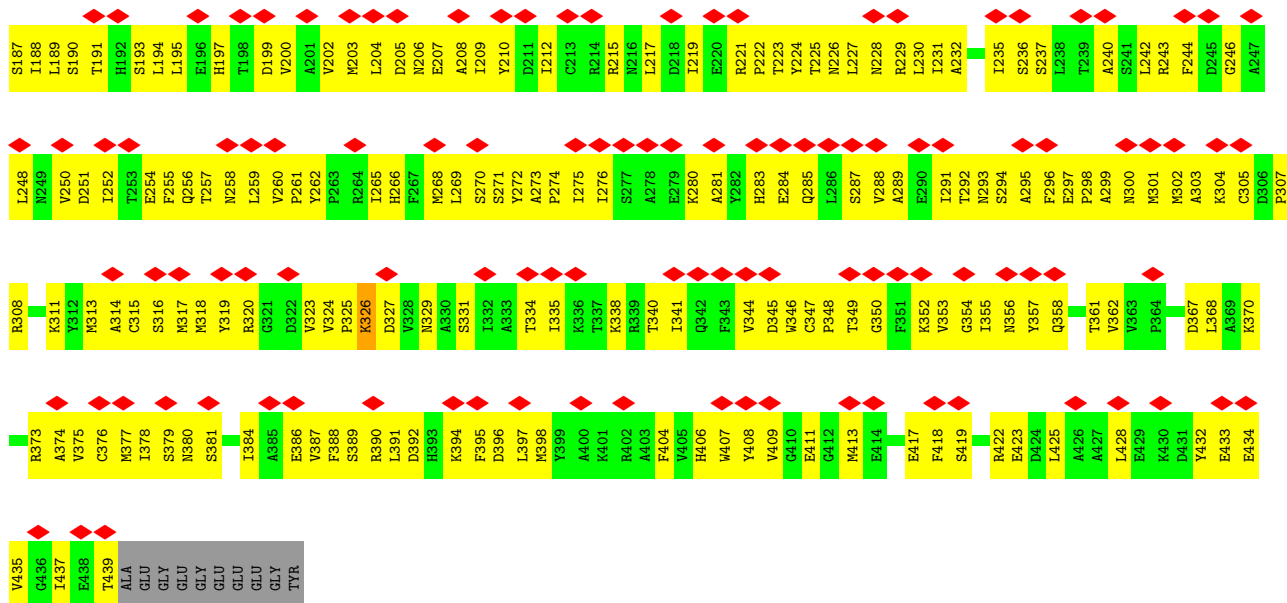


• Molecule 44: Tubulin alpha chain

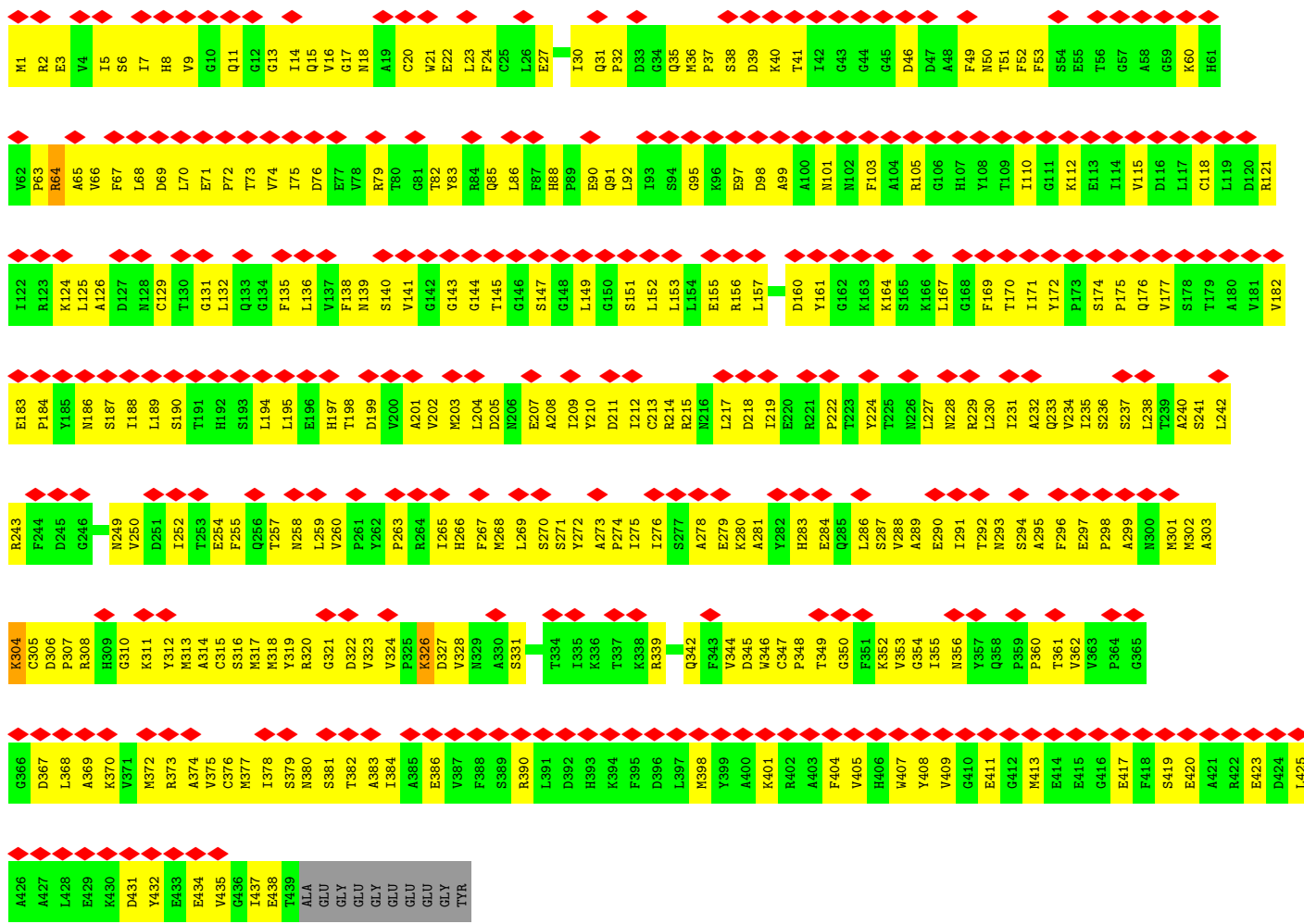


• Molecule 44: Tubulin alpha chain

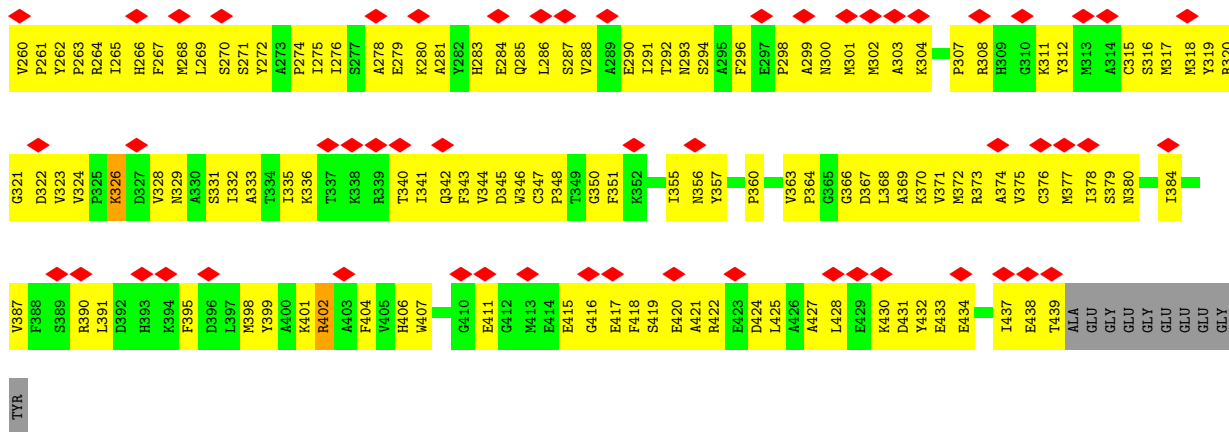




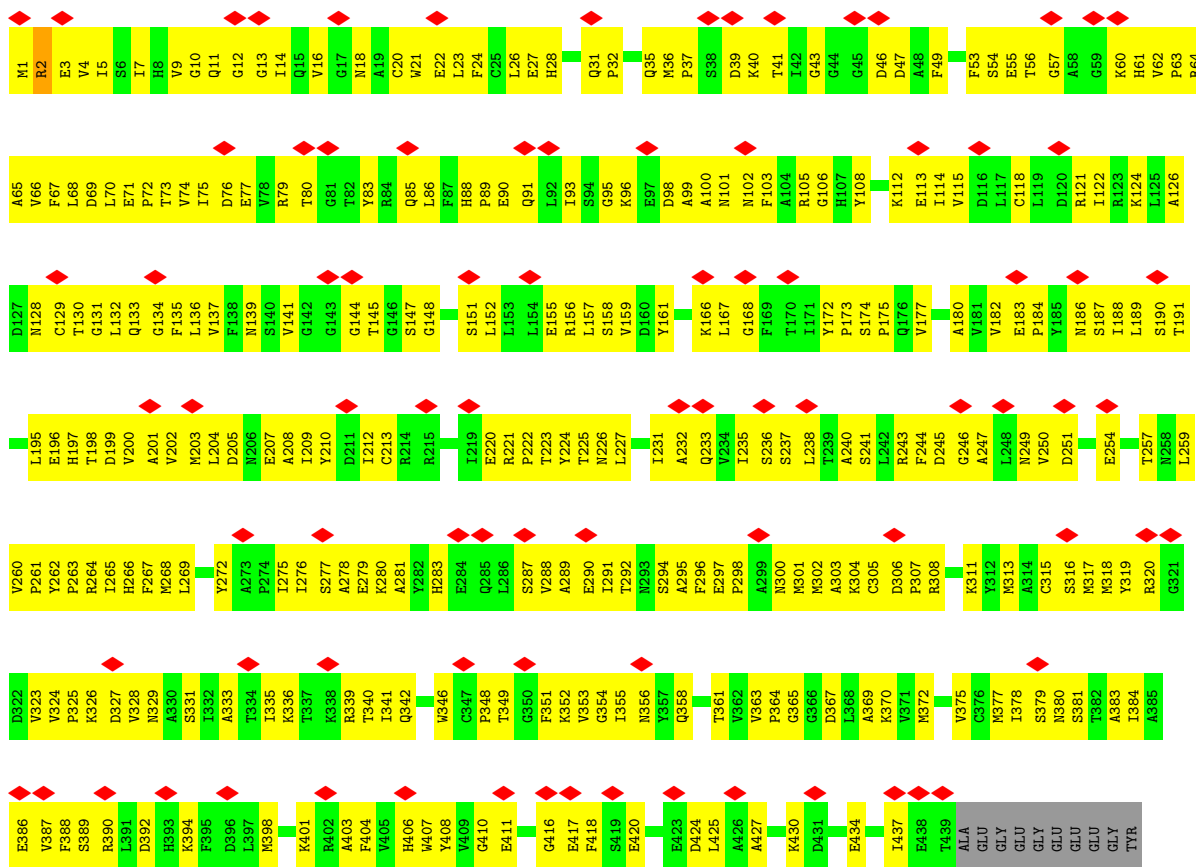
• Molecule 44: Tubulin alpha chain





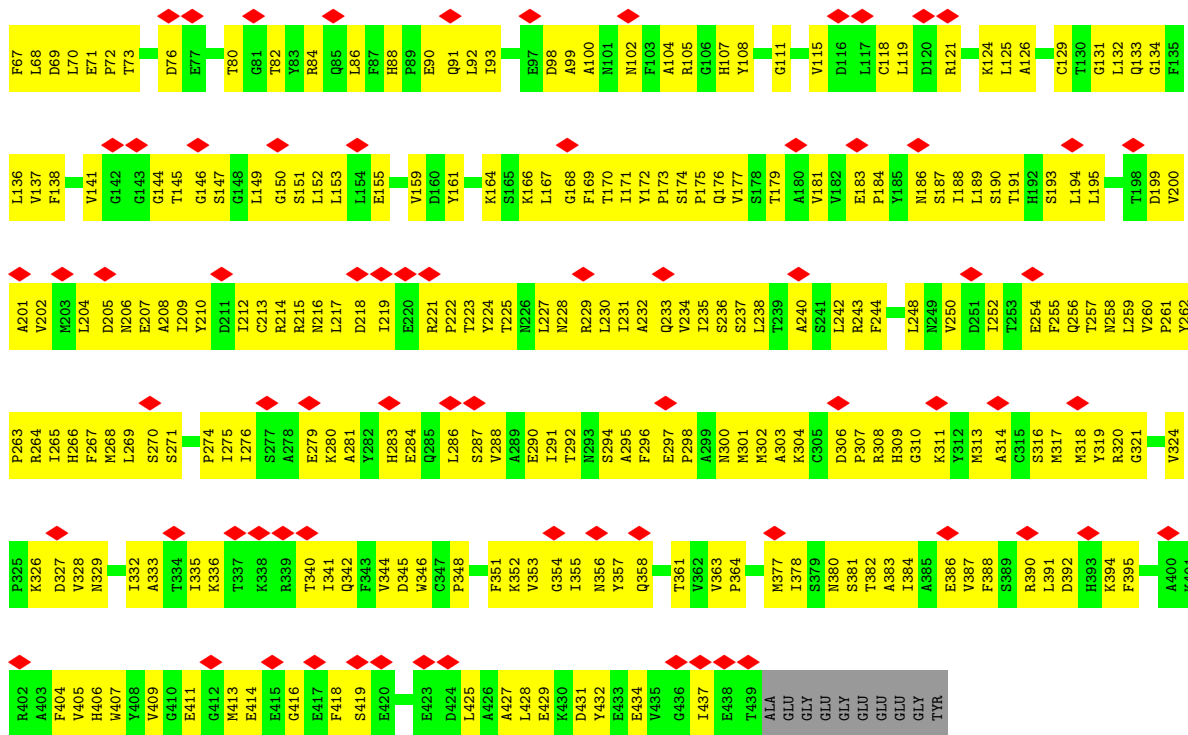


• Molecule 44: Tubulin alpha chain

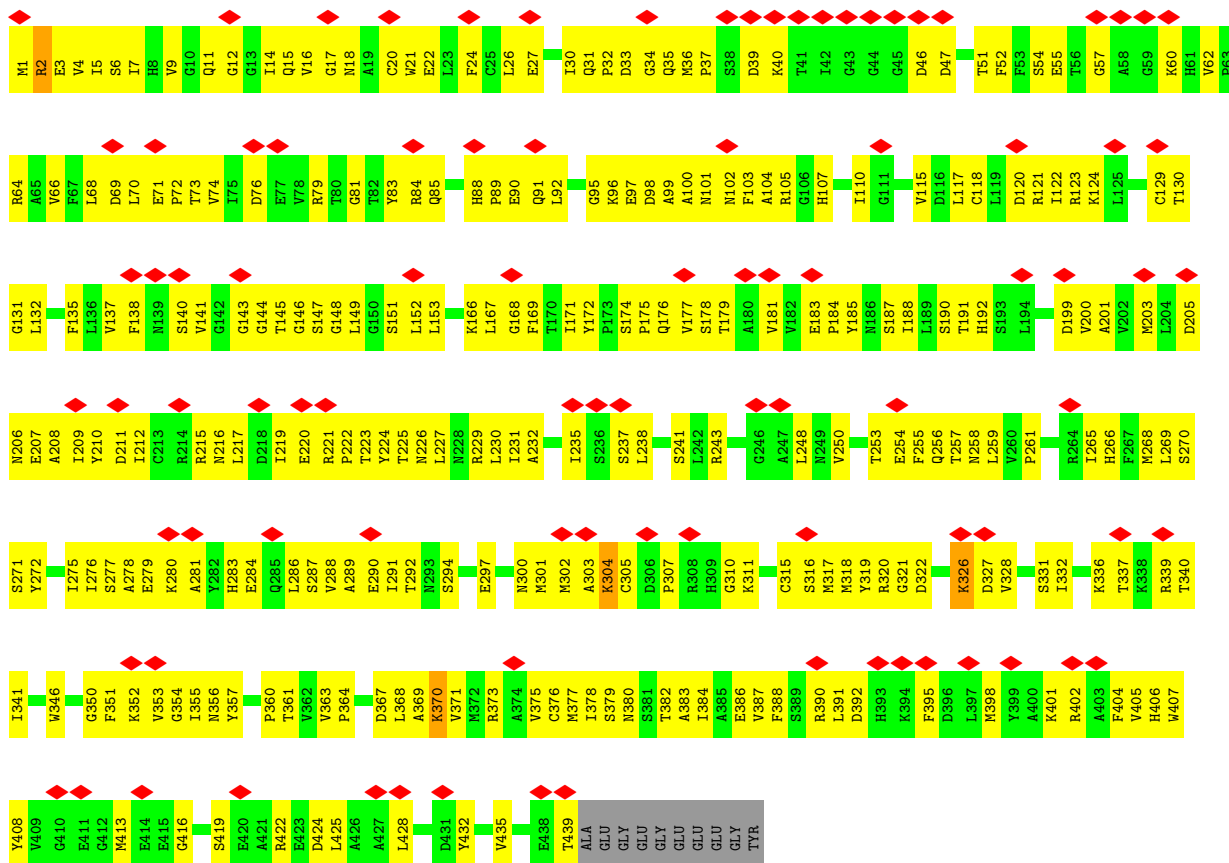


• Molecule 44: Tubulin alpha chain





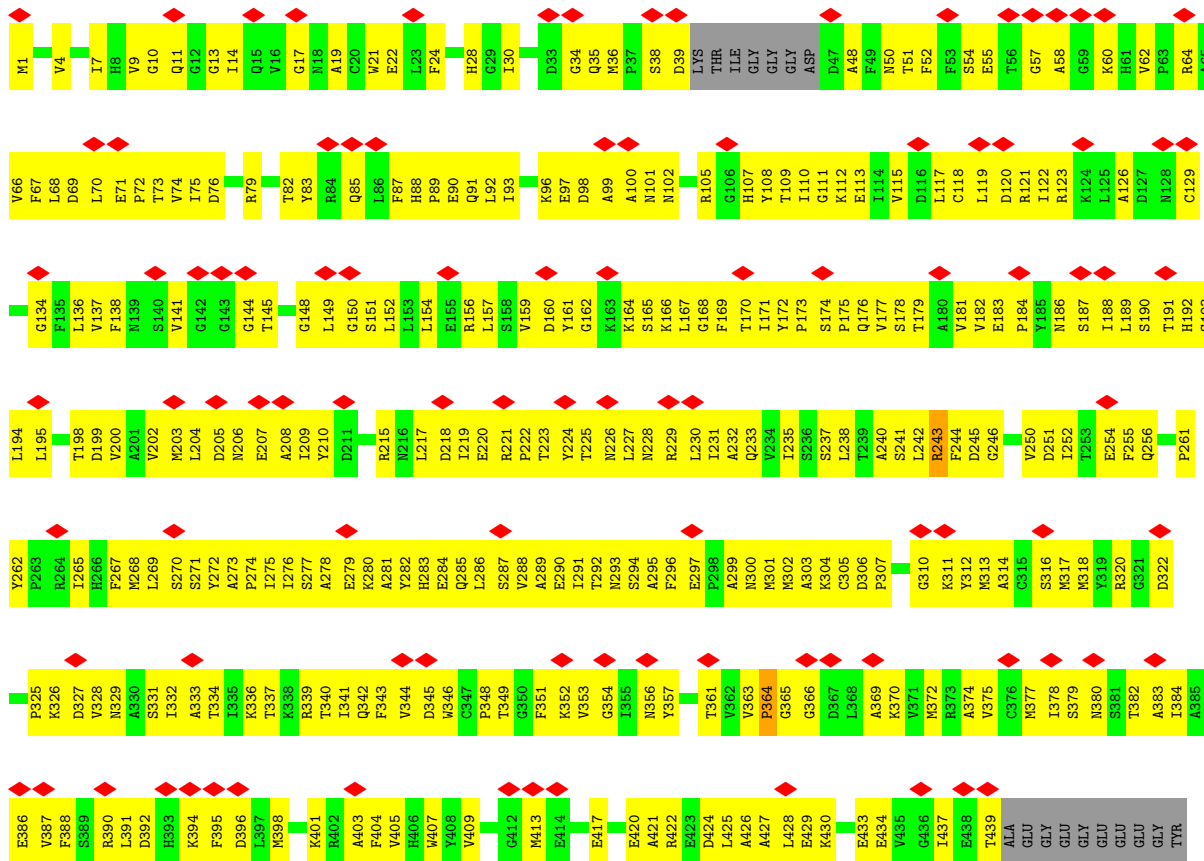
• Molecule 44: Tubulin alpha chain







• Molecule 44: Tubulin alpha chain



• Molecule 44: Tubulin alpha chain

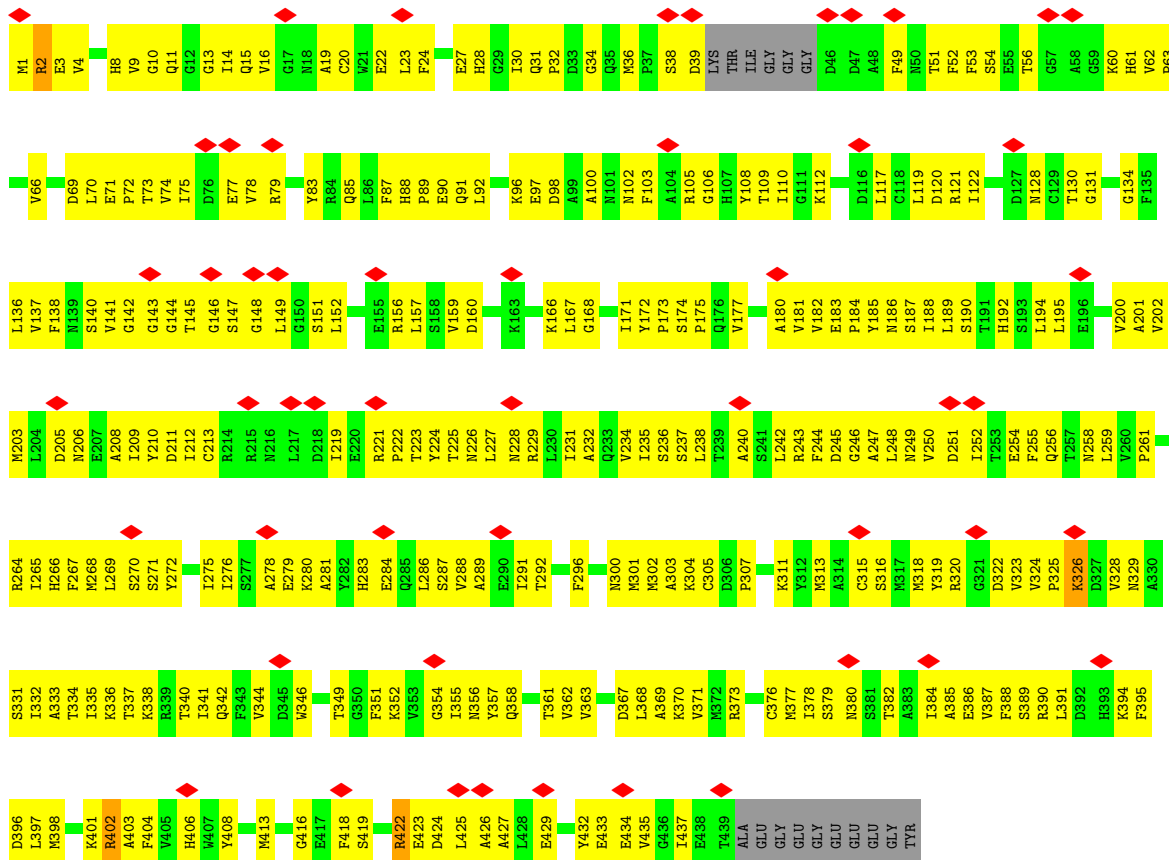




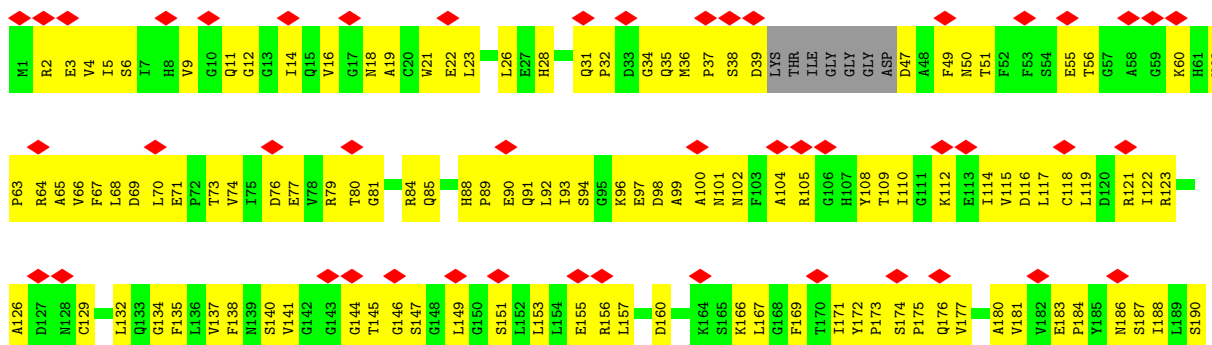




• Molecule 44: Tubulin alpha chain

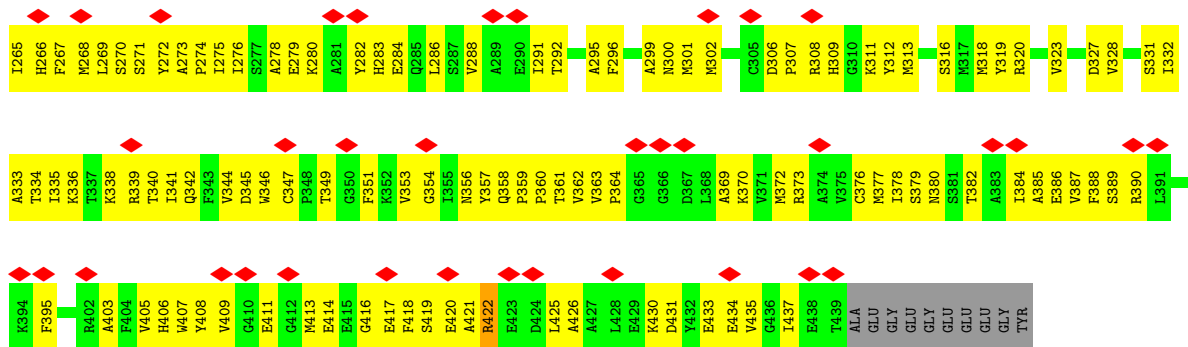


• Molecule 44: Tubulin alpha chain

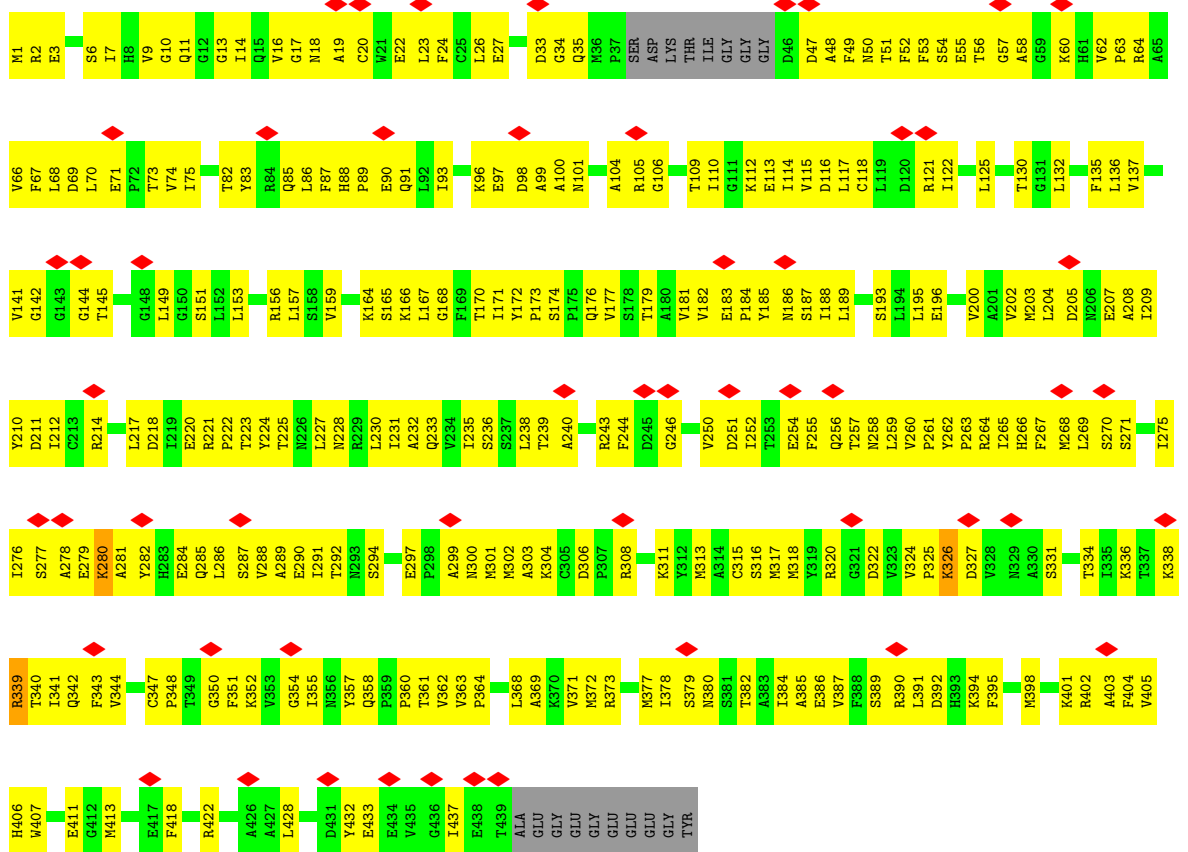




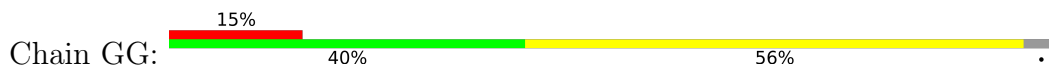


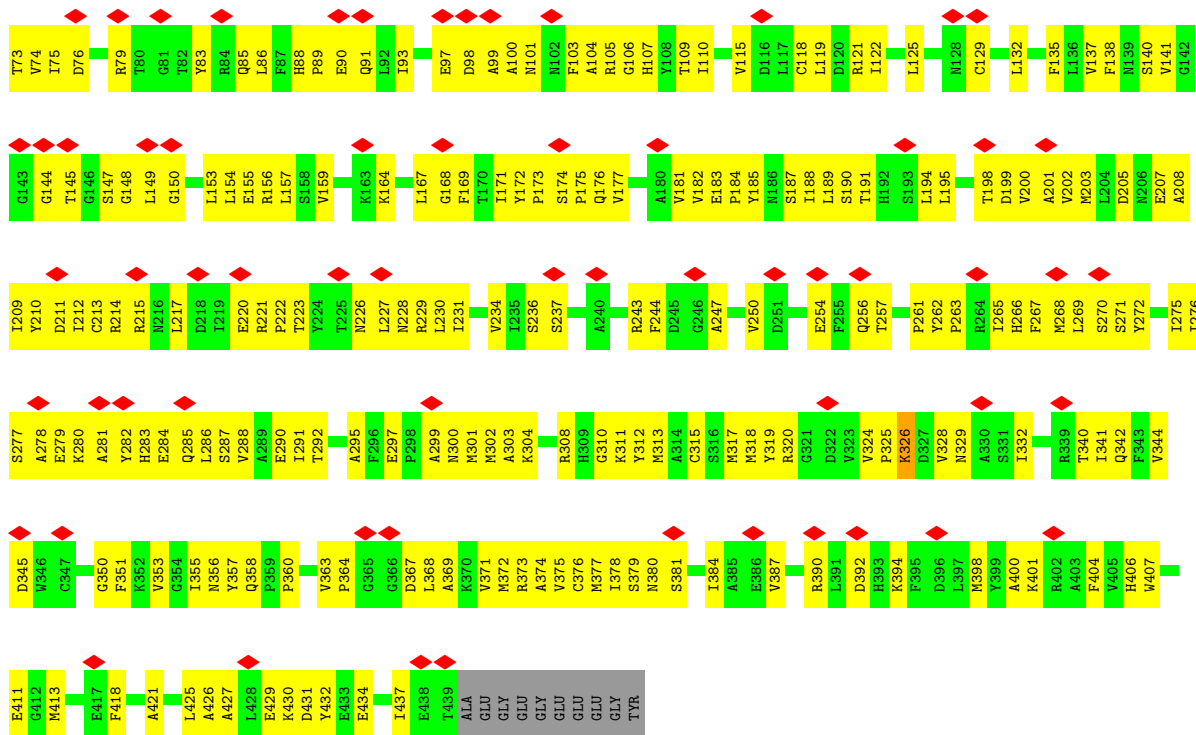


• Molecule 44: Tubulin alpha chain

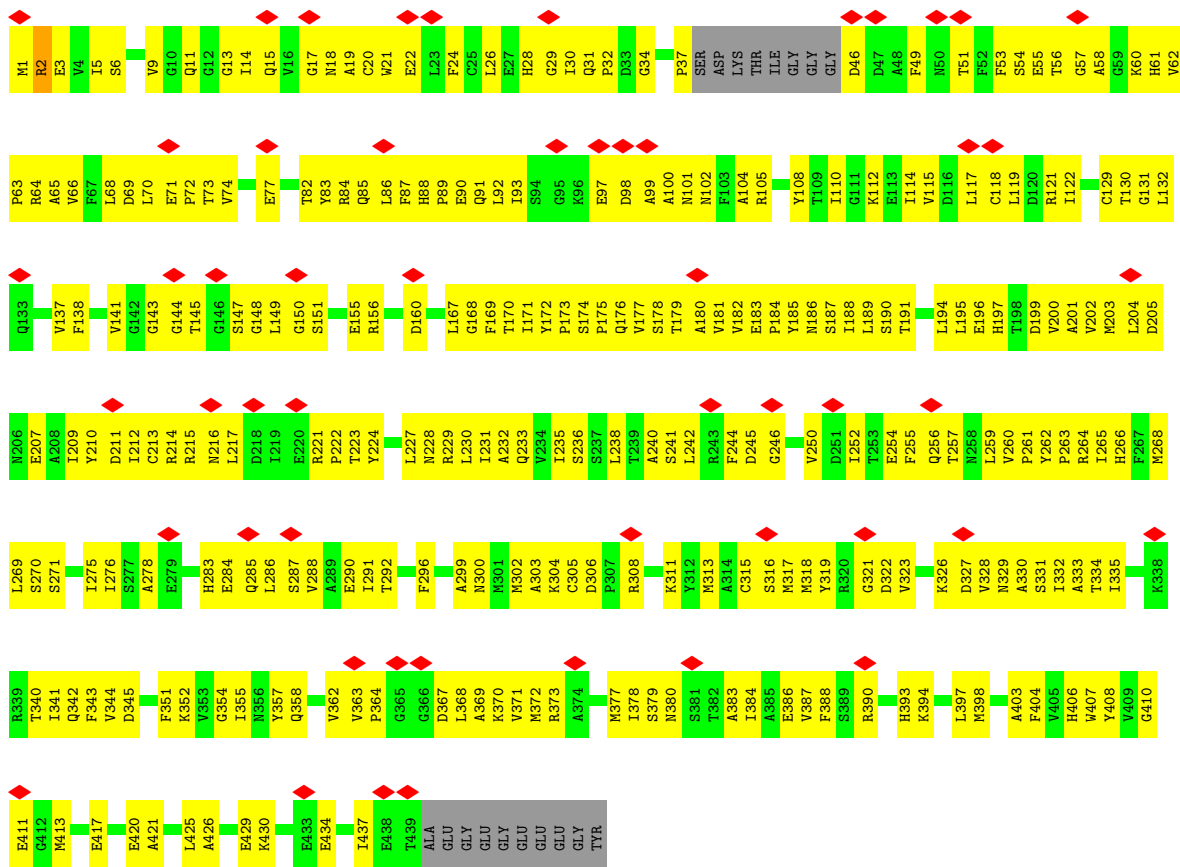


• Molecule 44: Tubulin alpha chain

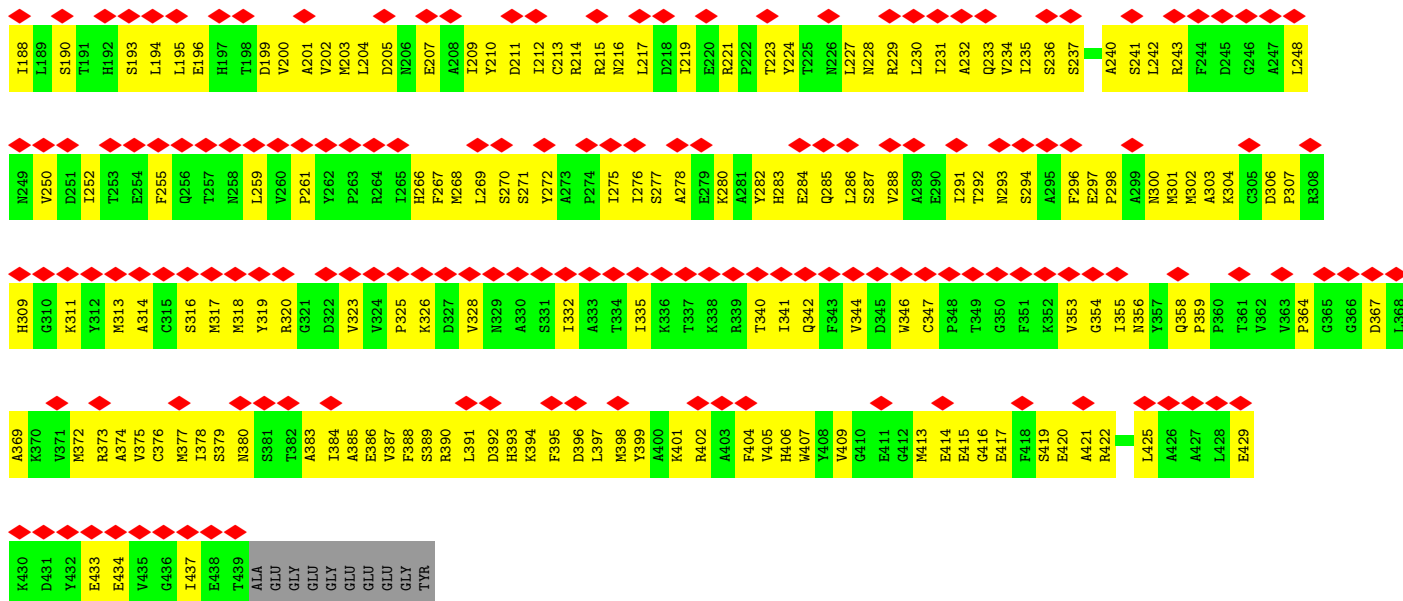




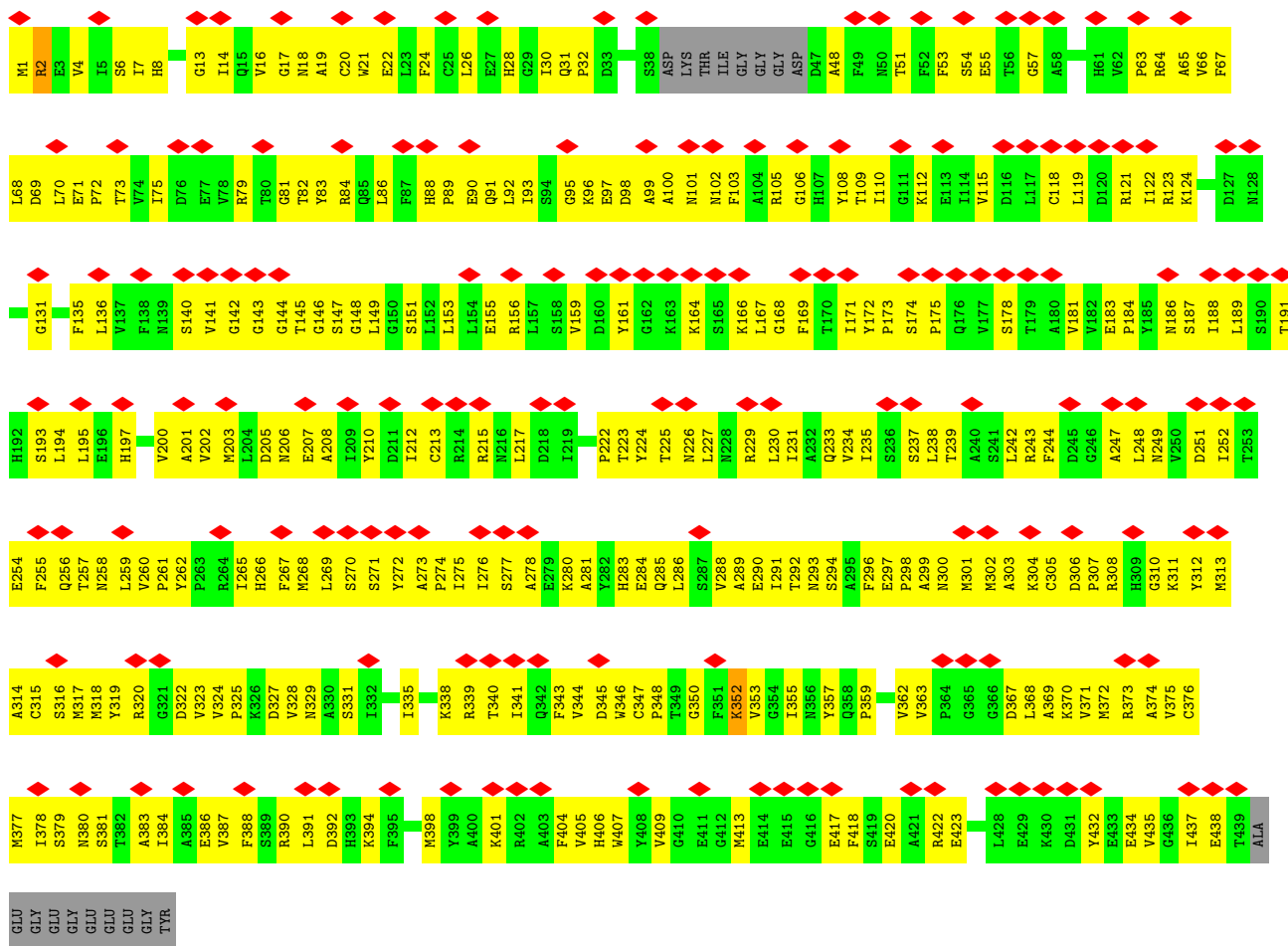
• Molecule 44: Tubulin alpha chain





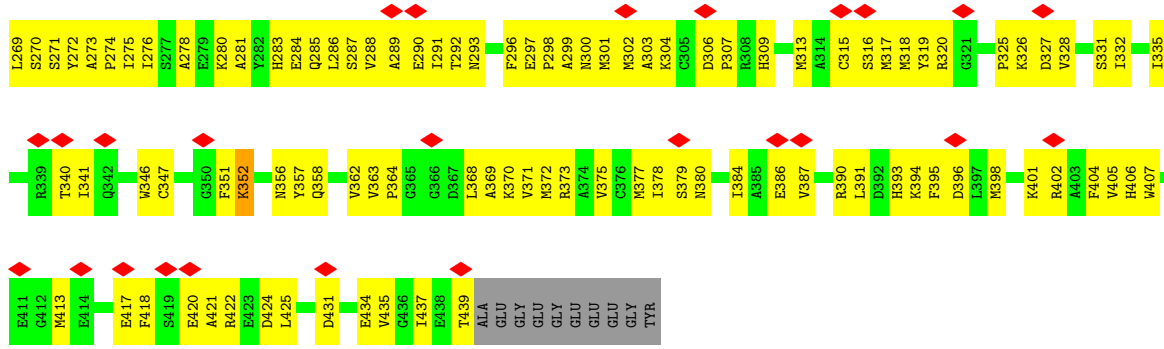


• Molecule 44: Tubulin alpha chain

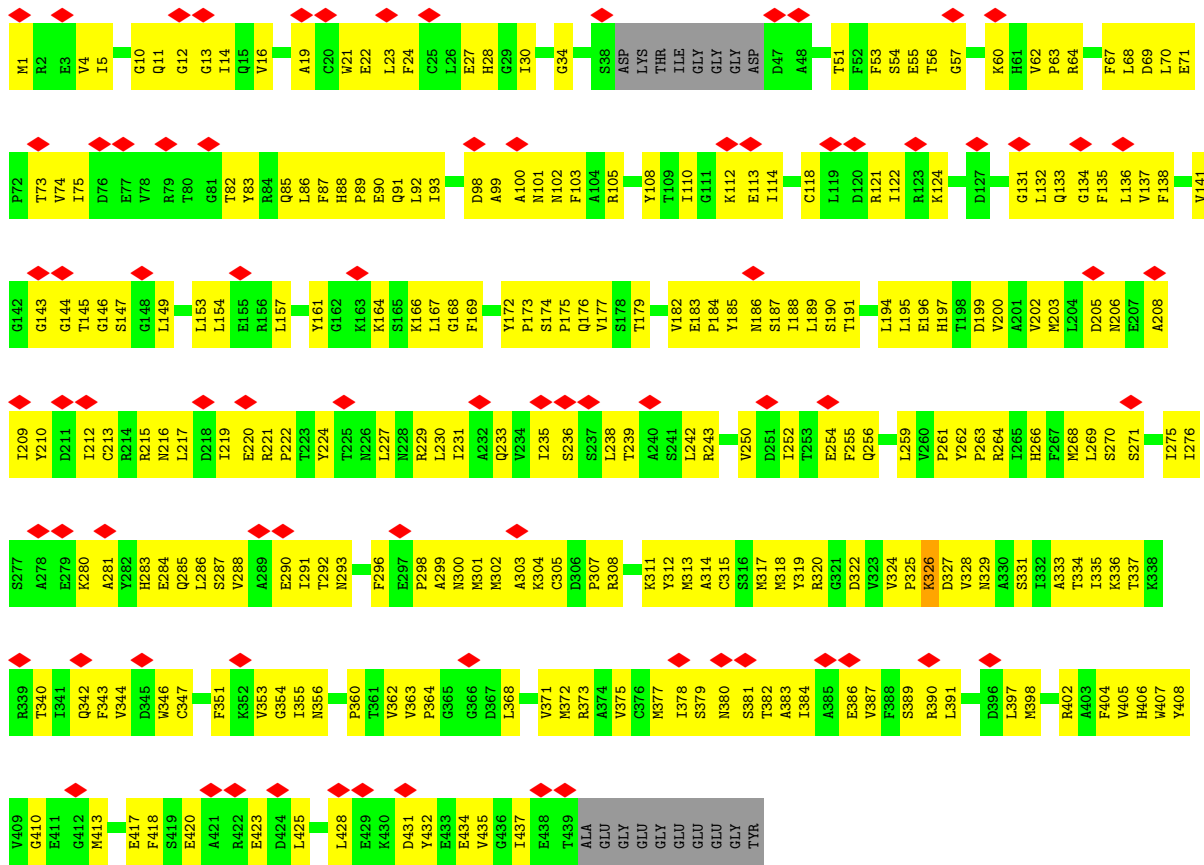




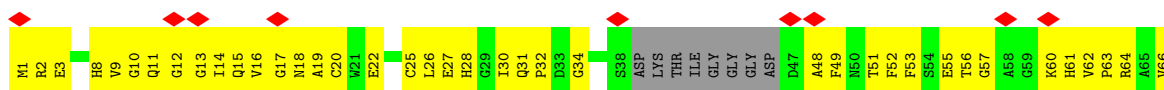


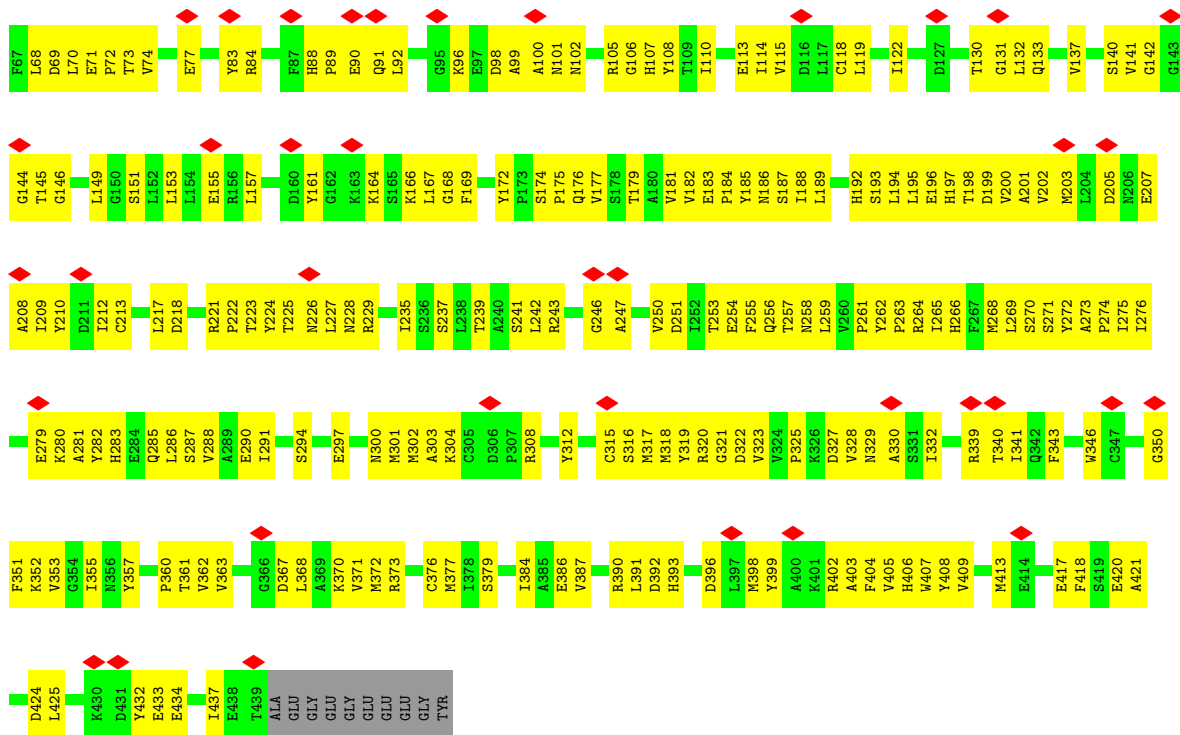


• Molecule 44: Tubulin alpha chain

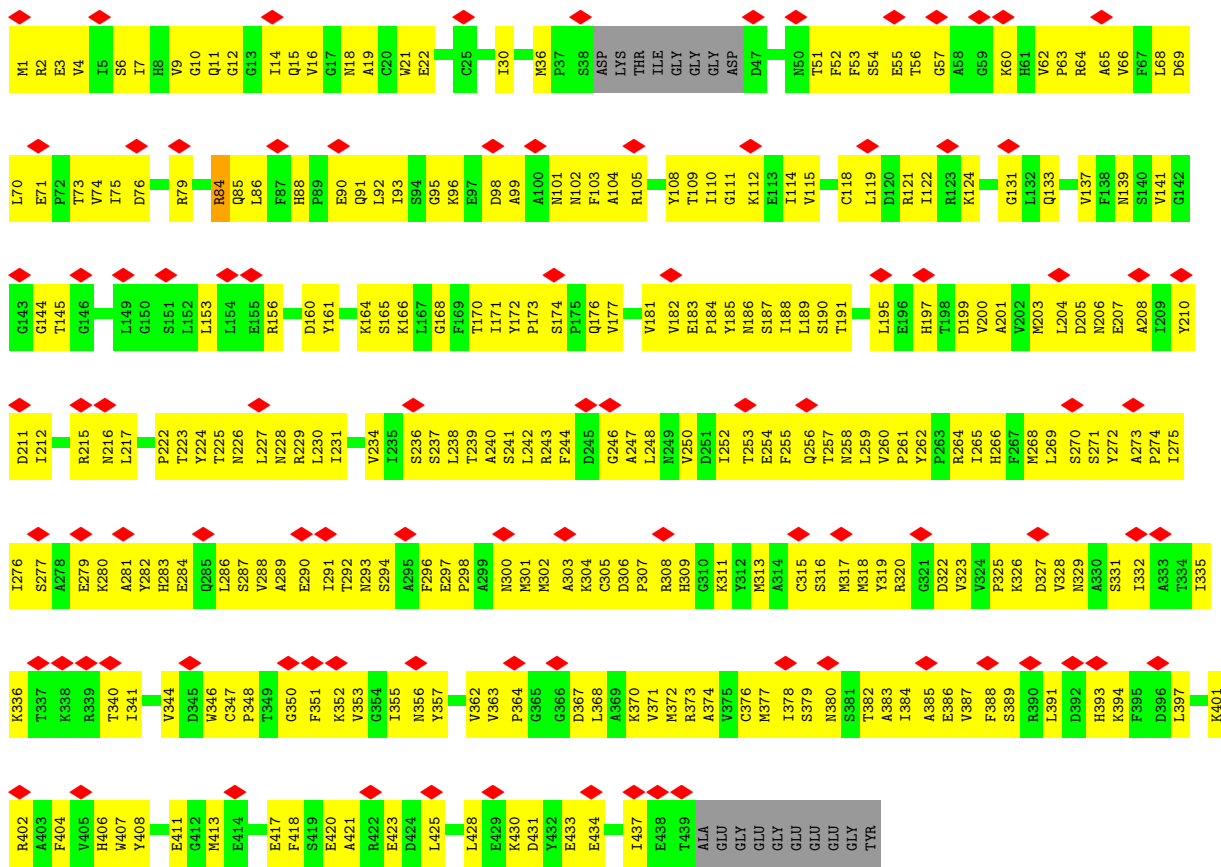


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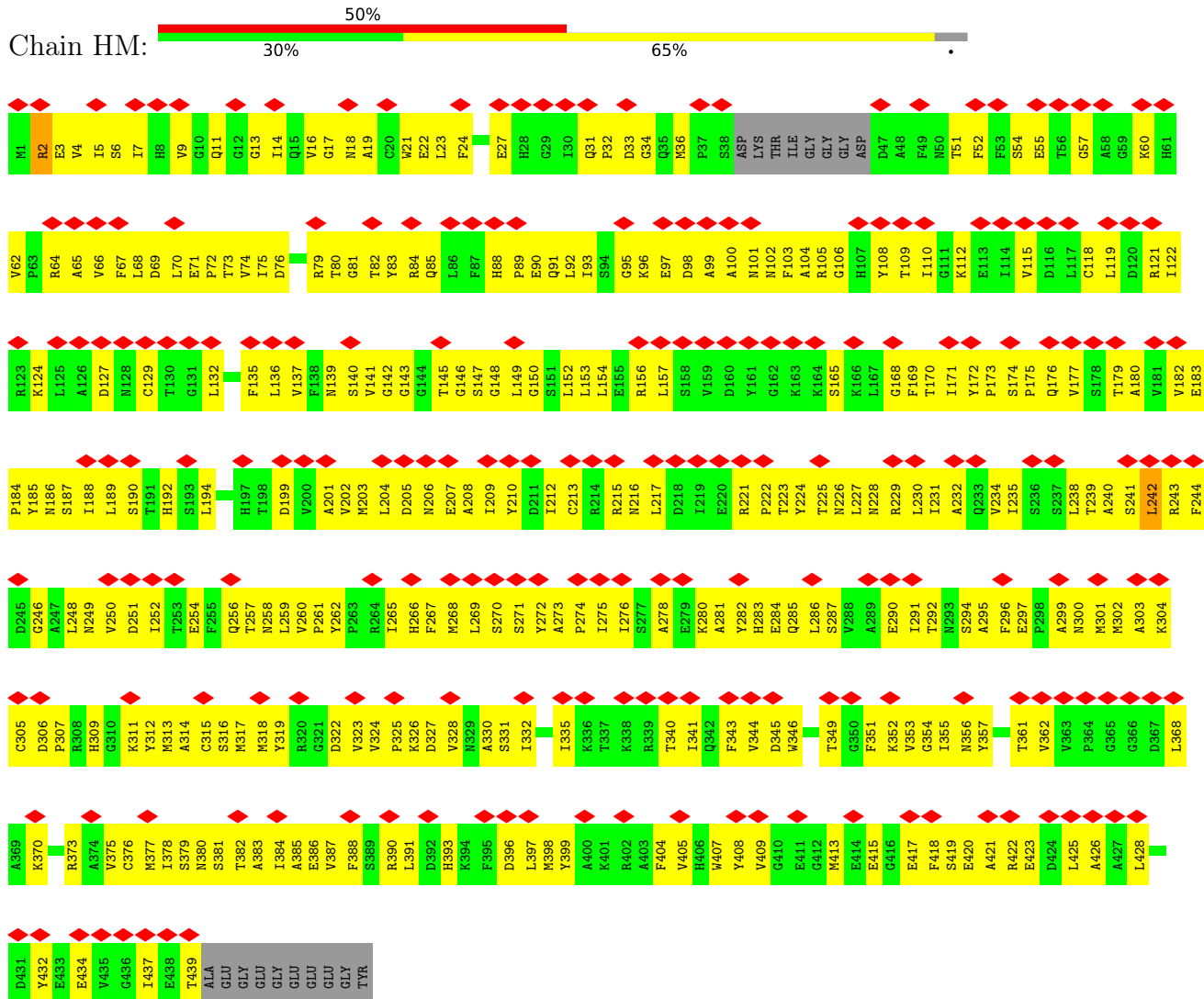




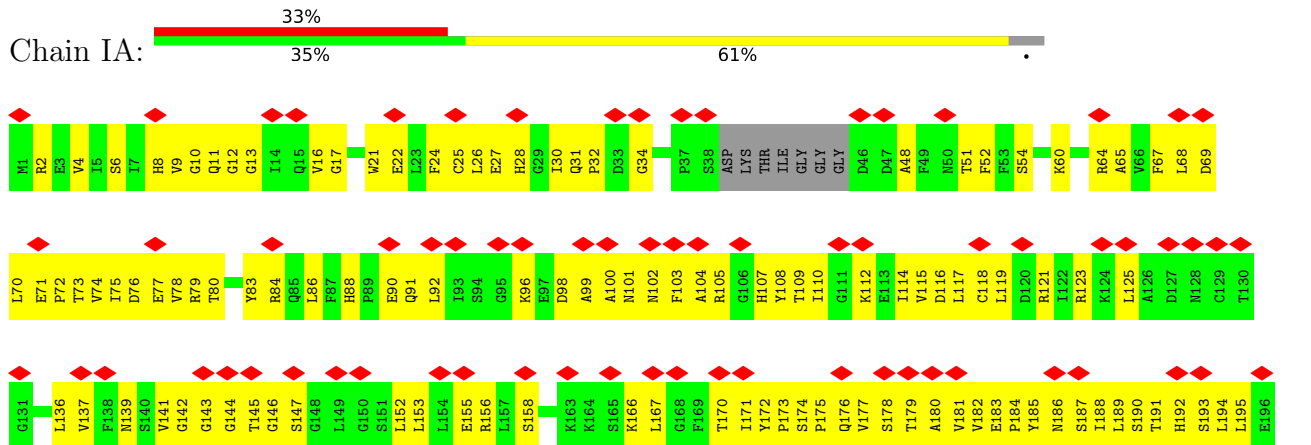
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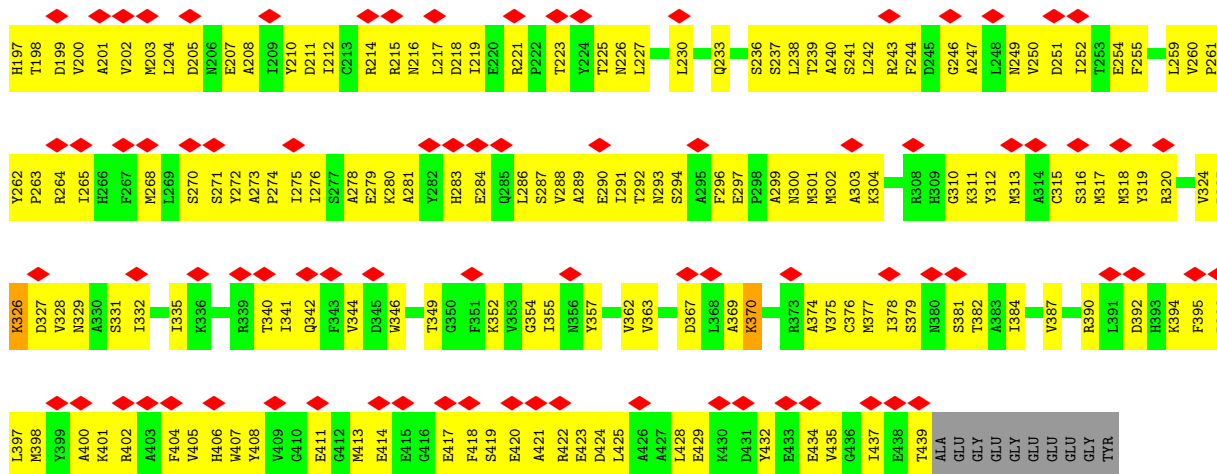


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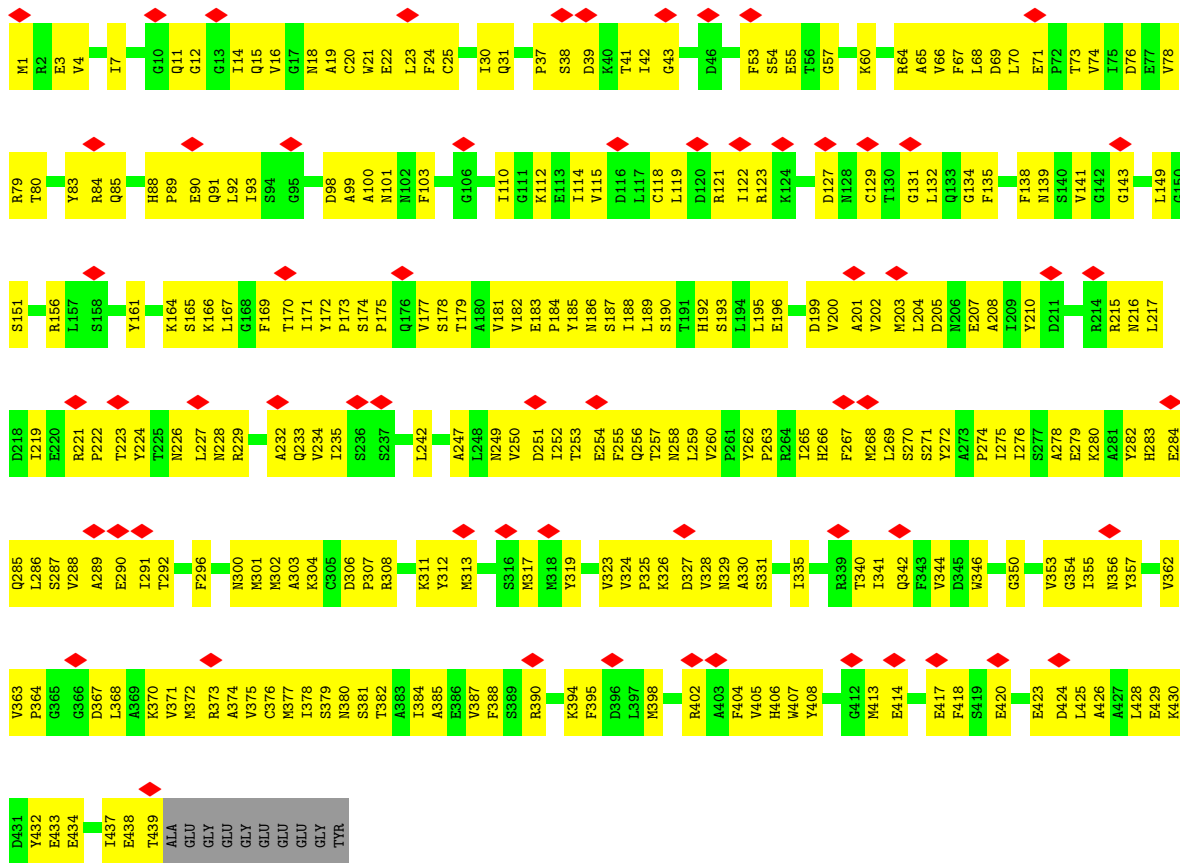


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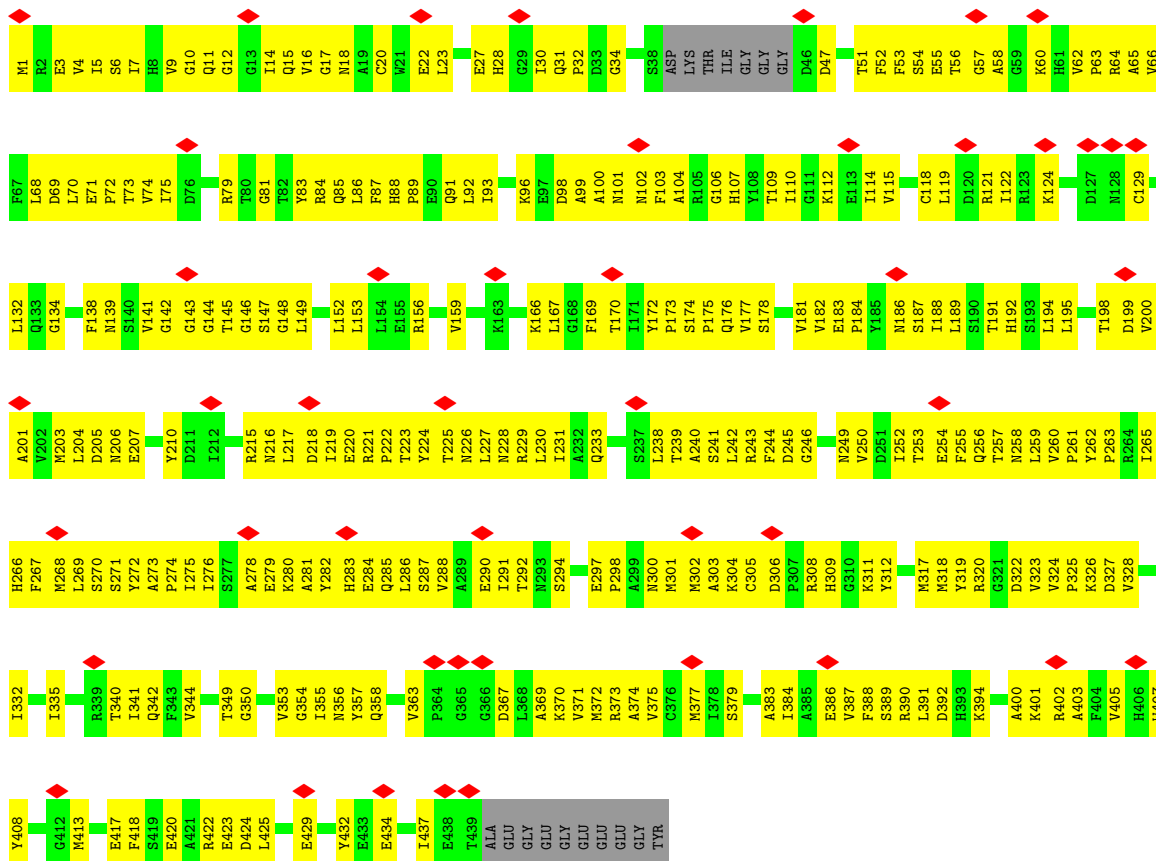


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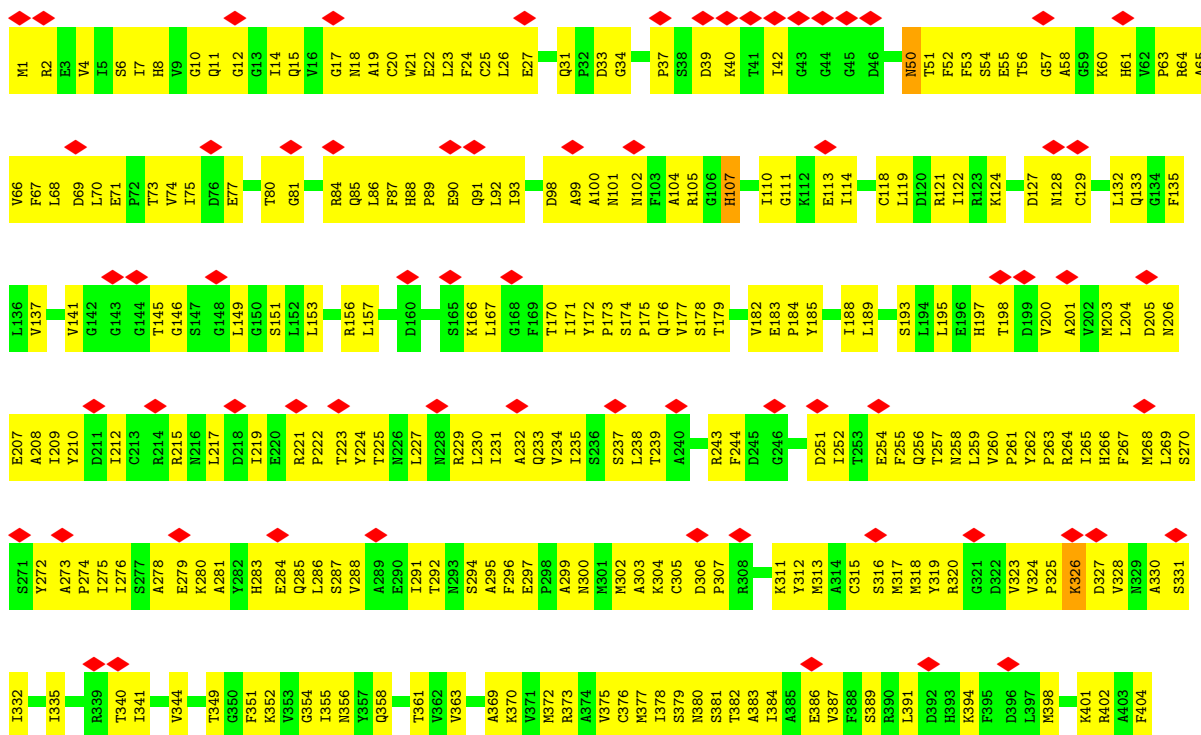


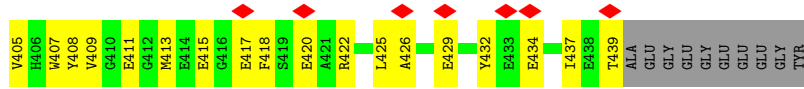
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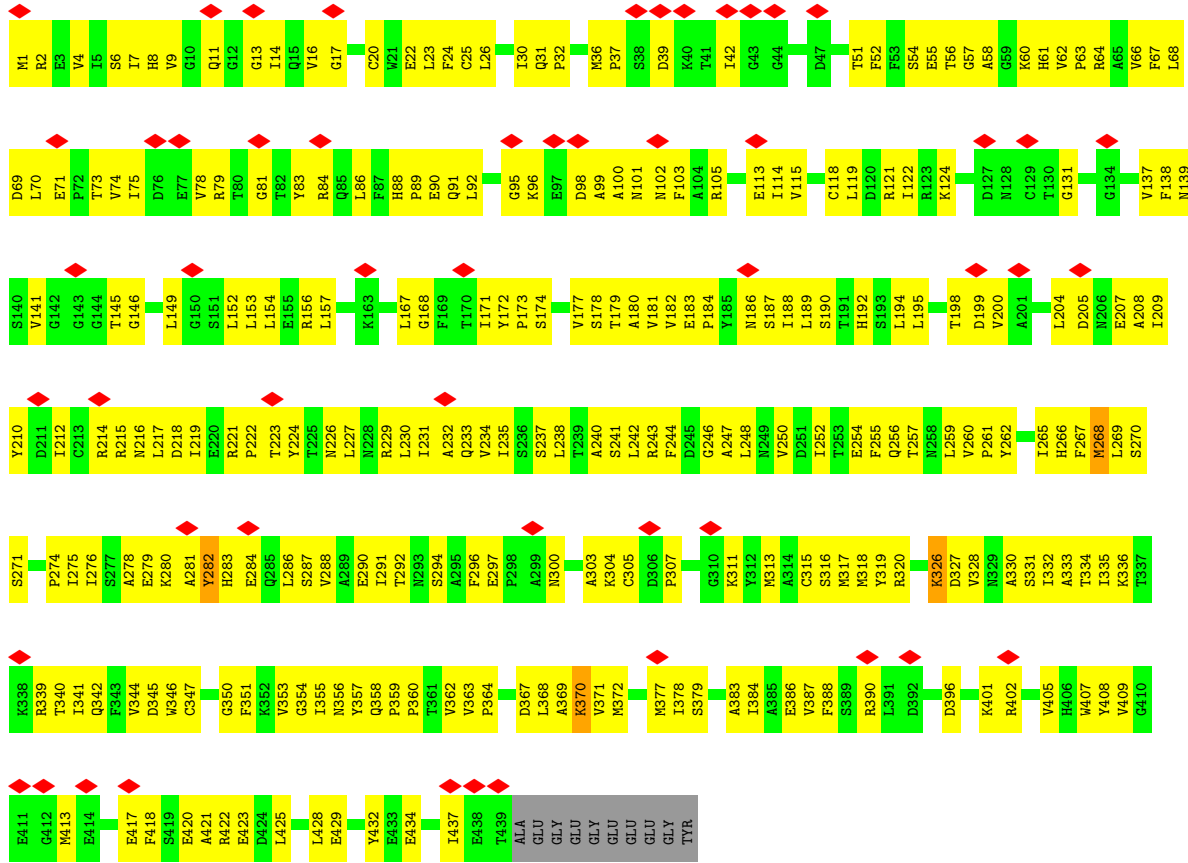


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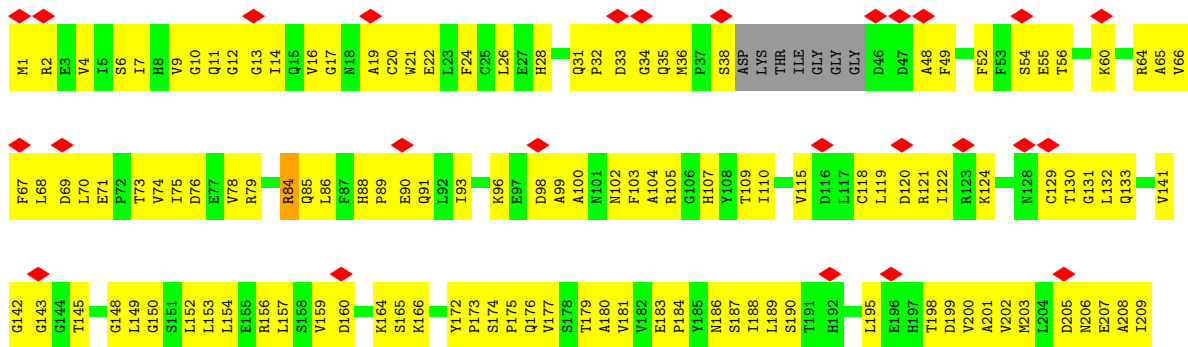


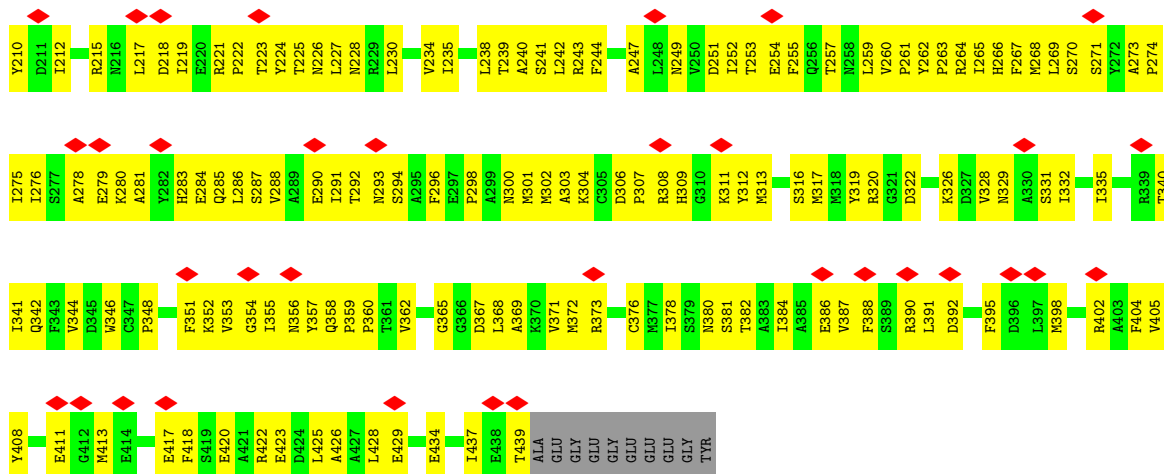


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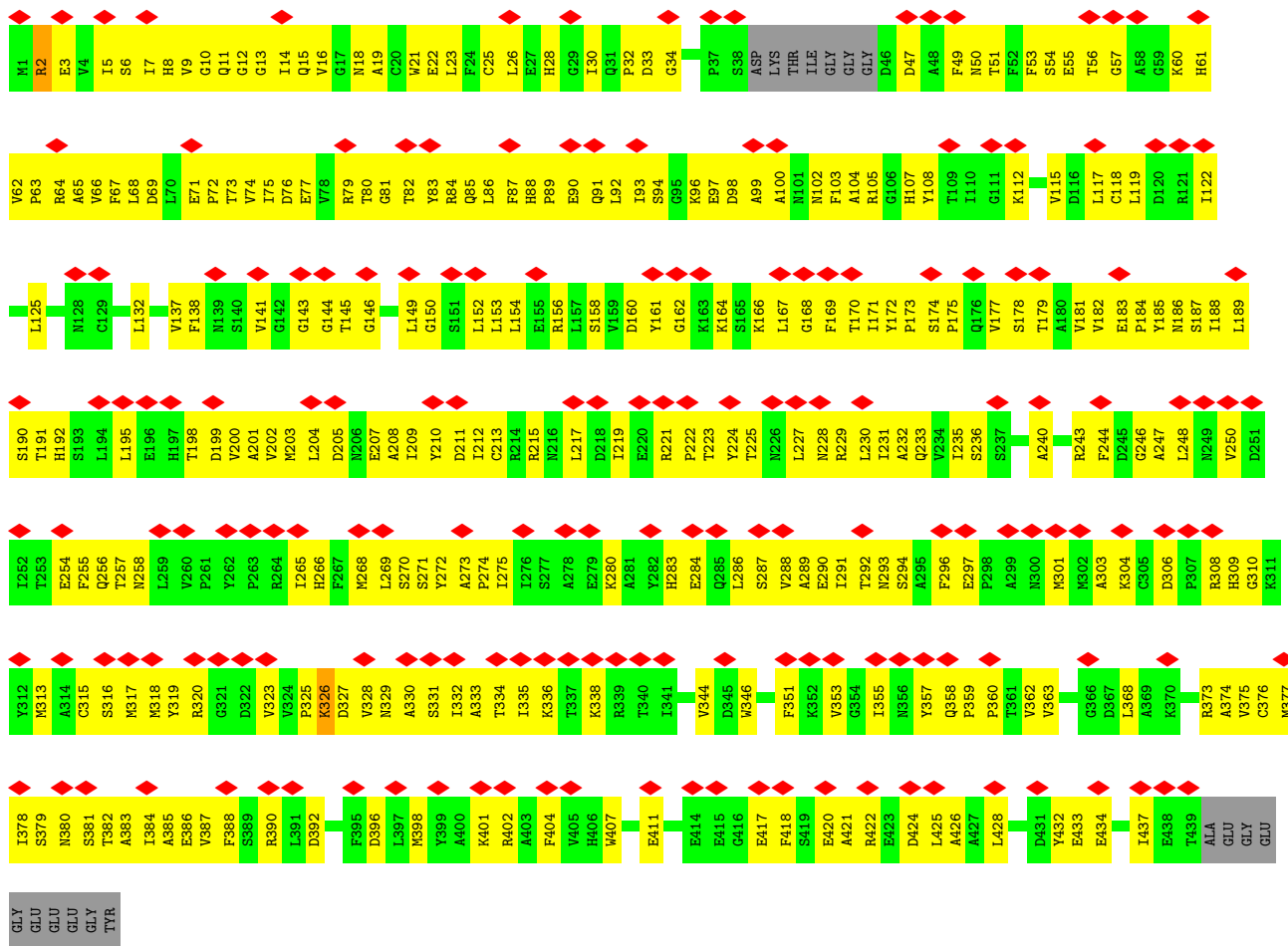


• Molecule 44: Tubulin alpha chain





- Molecule 44: Tubulin alpha chain



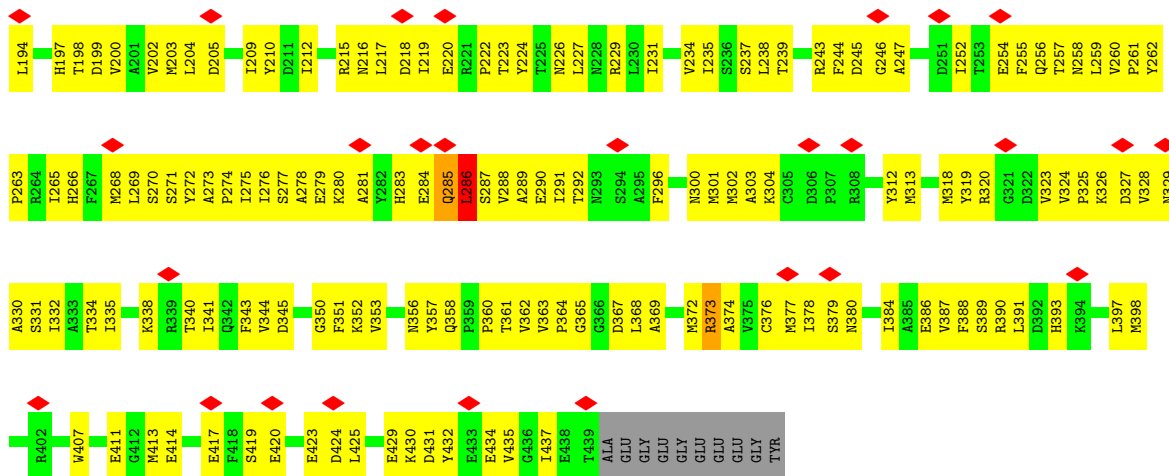
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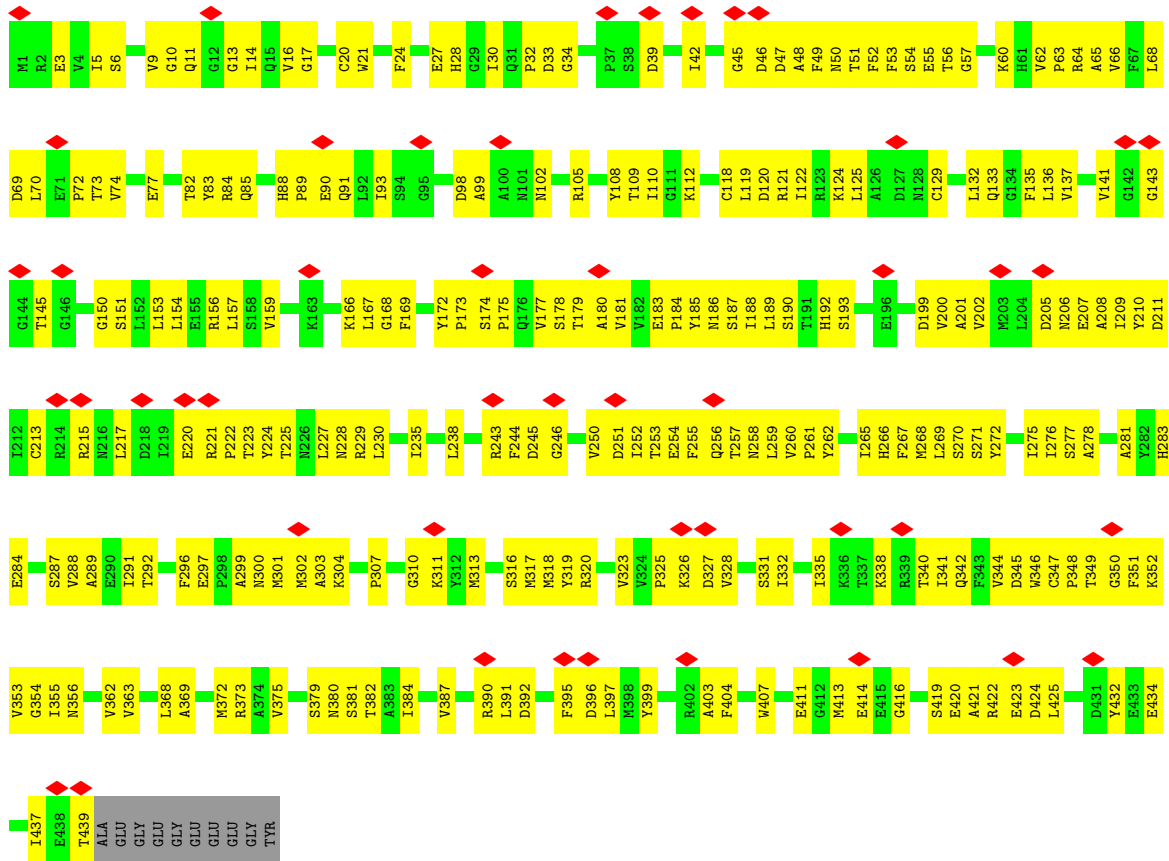






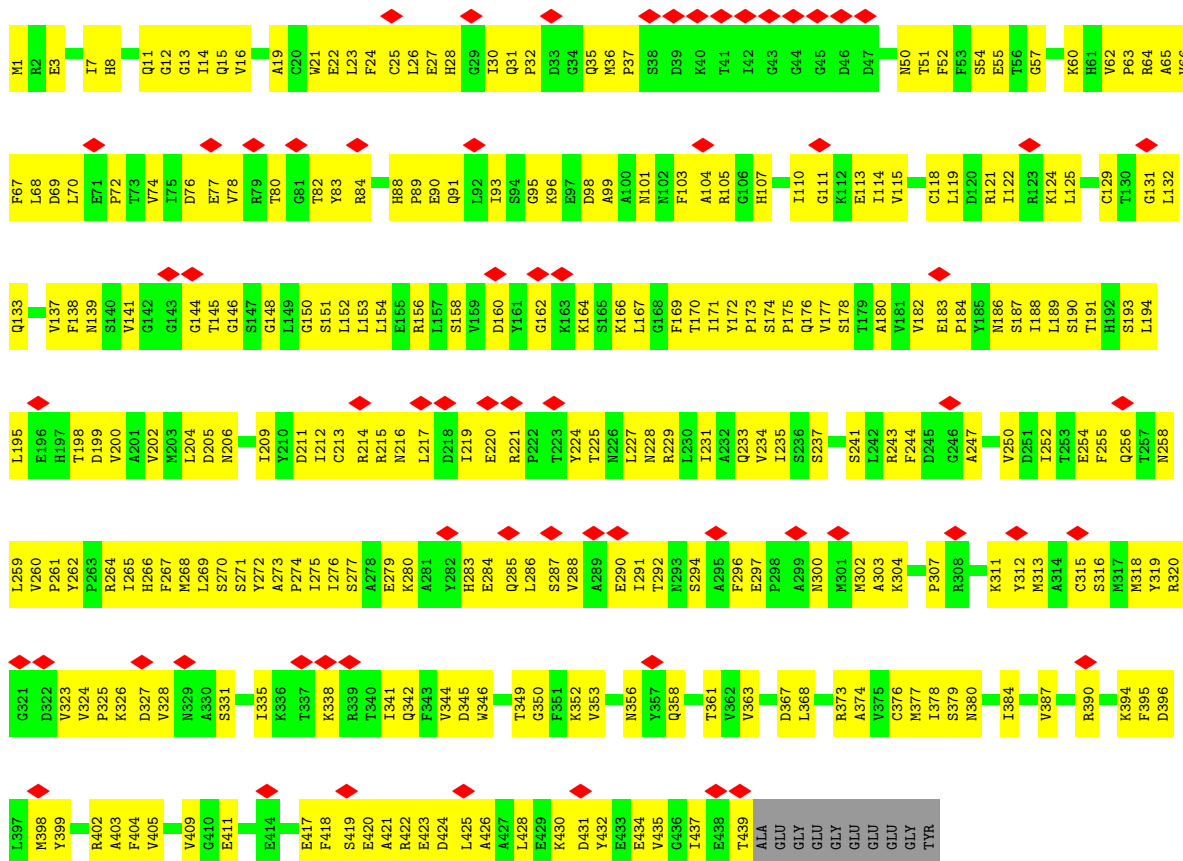


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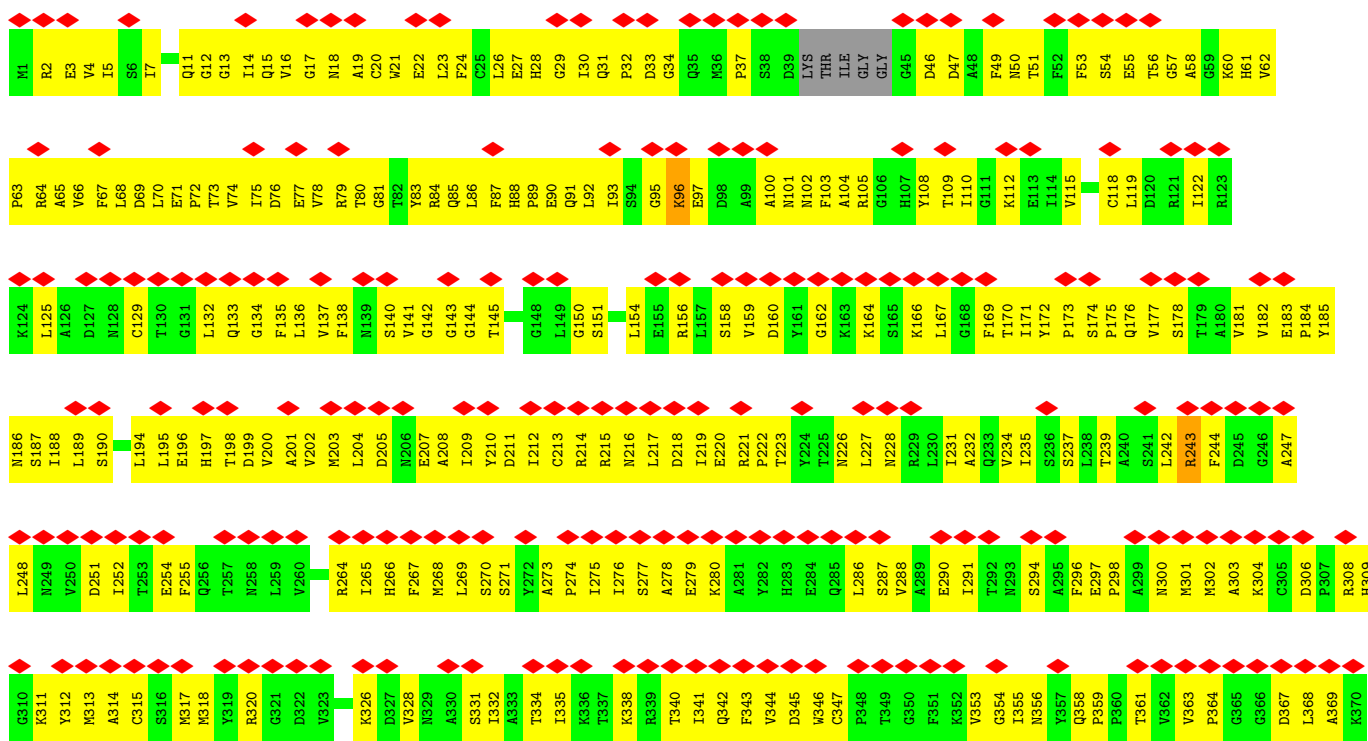


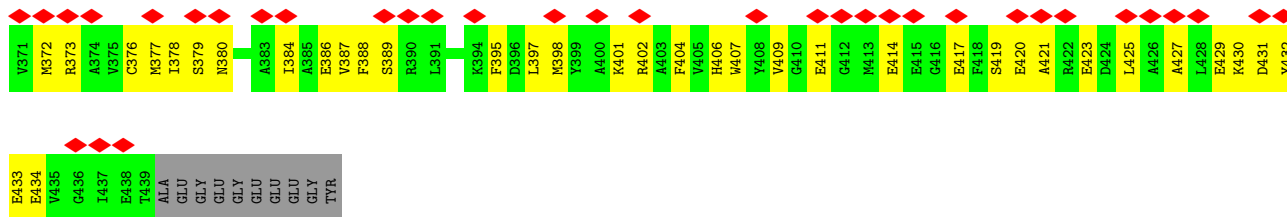
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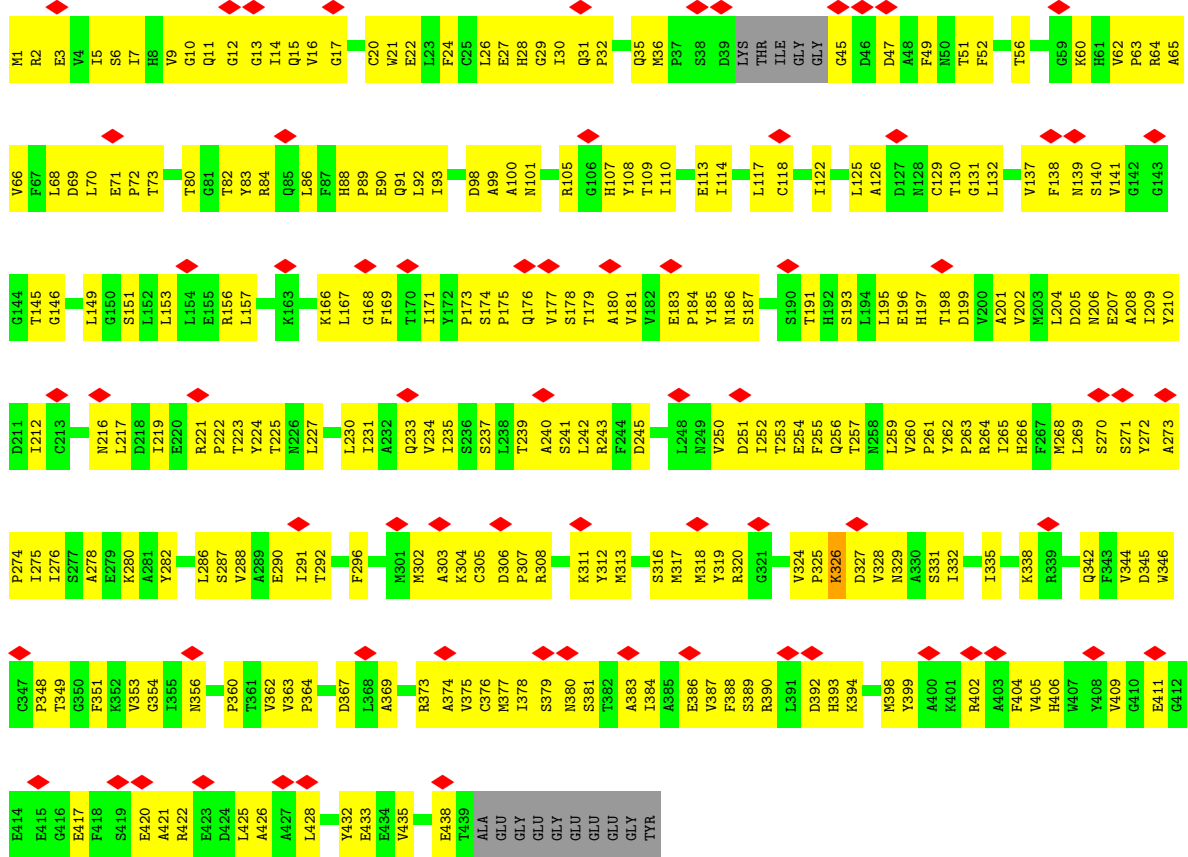


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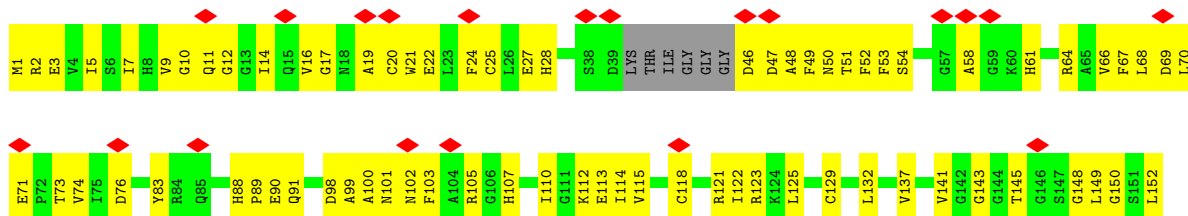


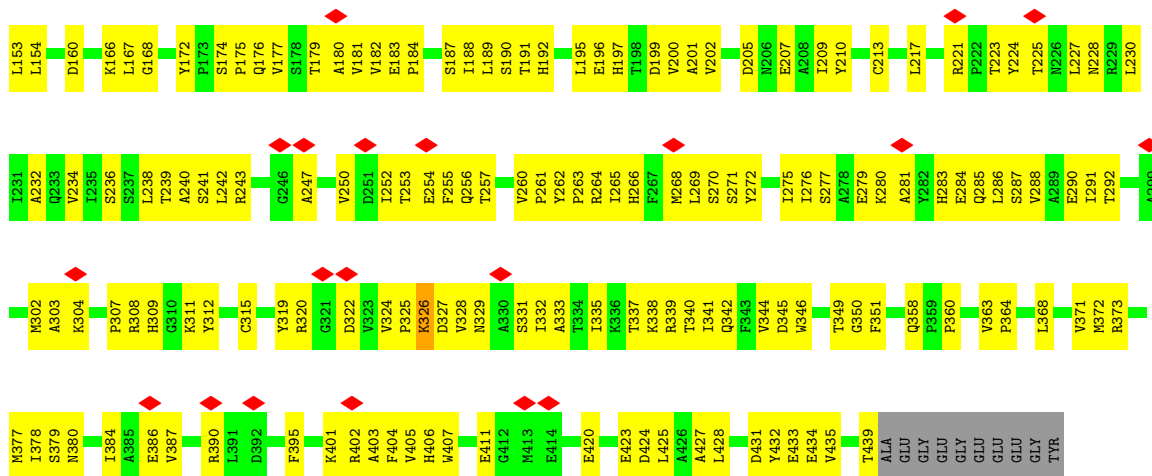


• Molecule 44: Tubulin alpha chain

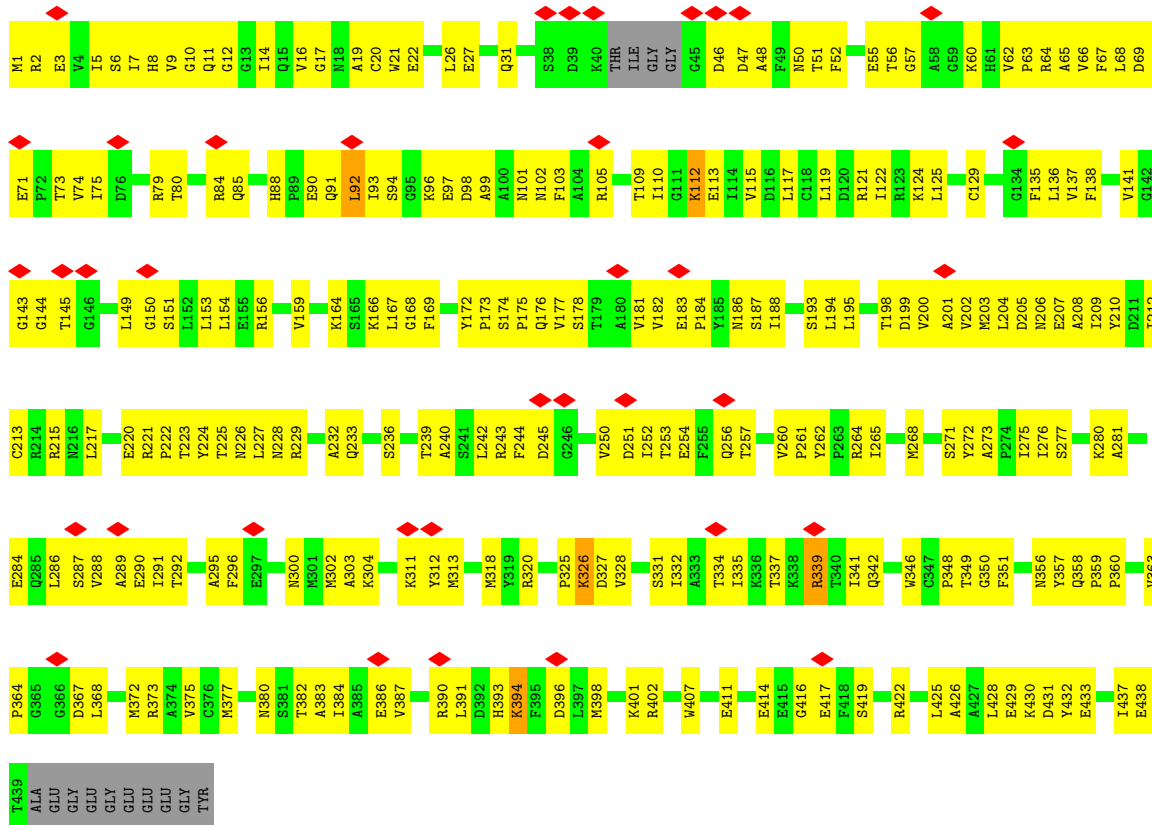


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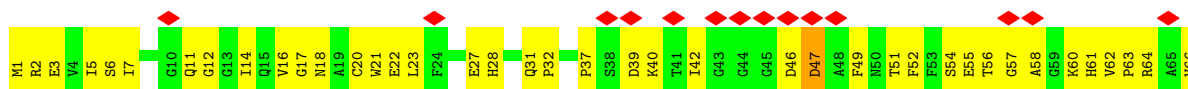


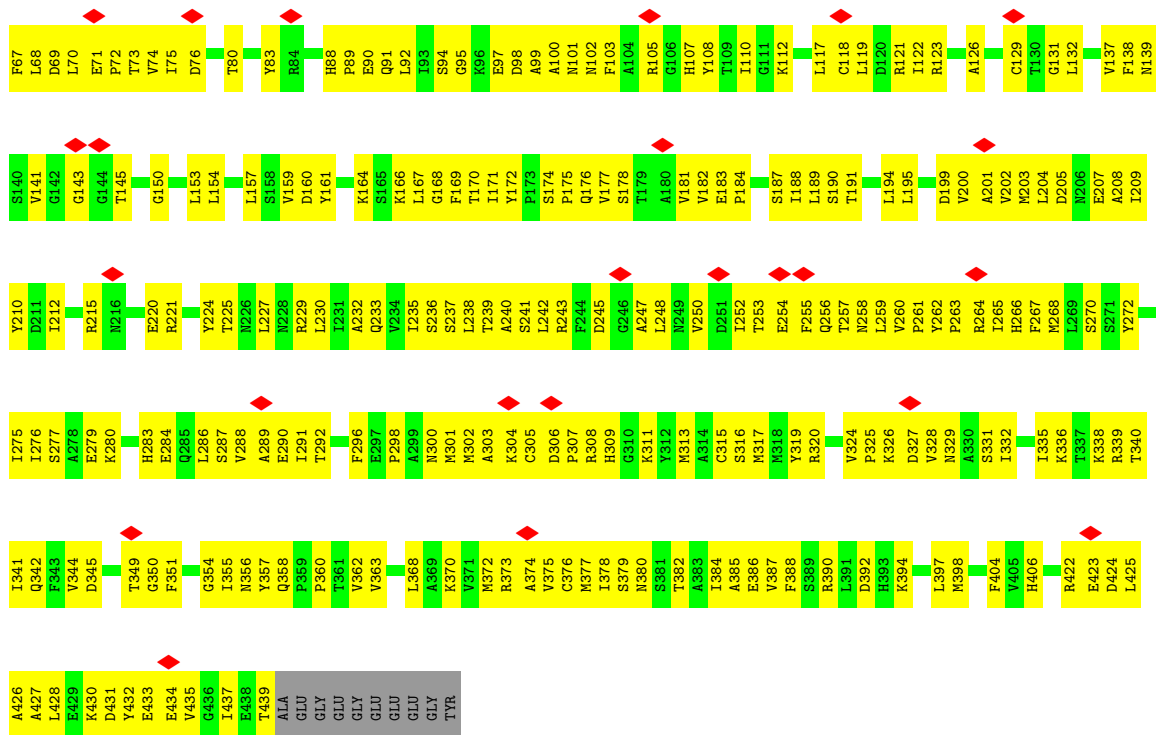


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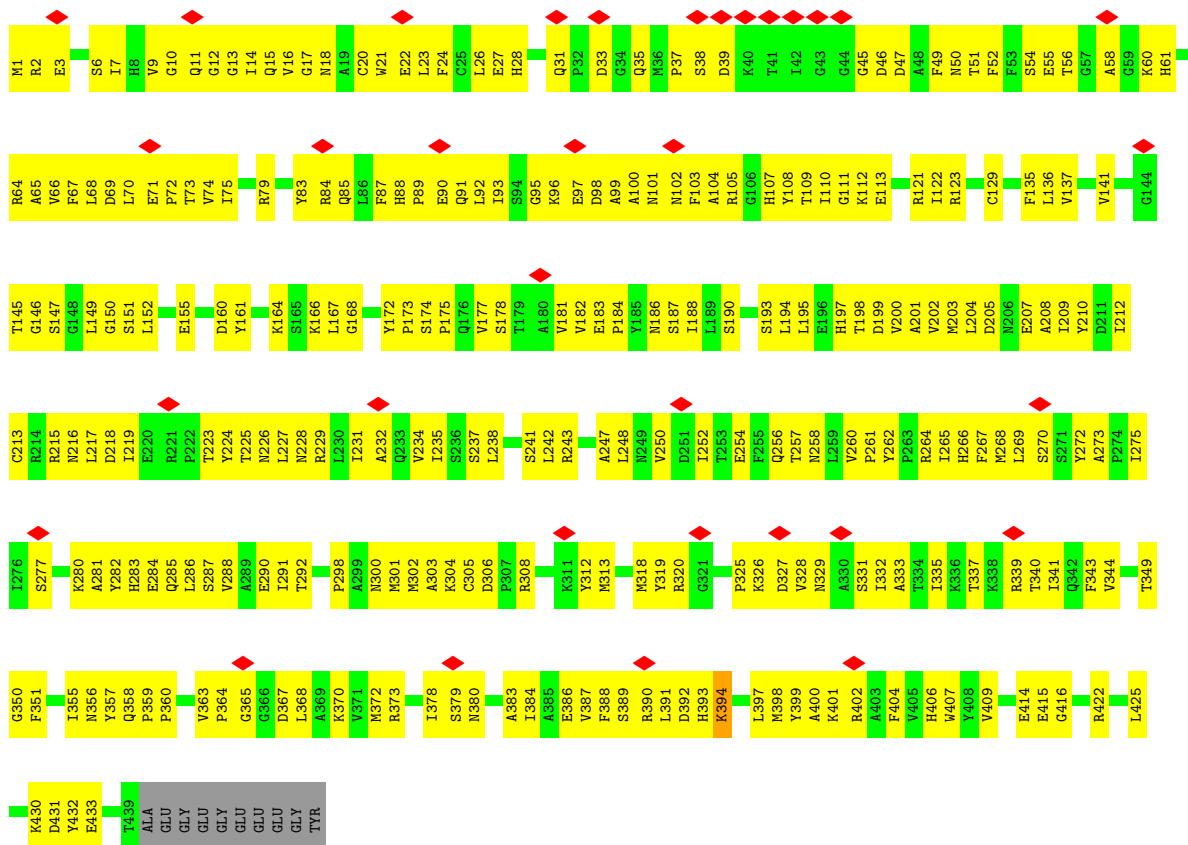


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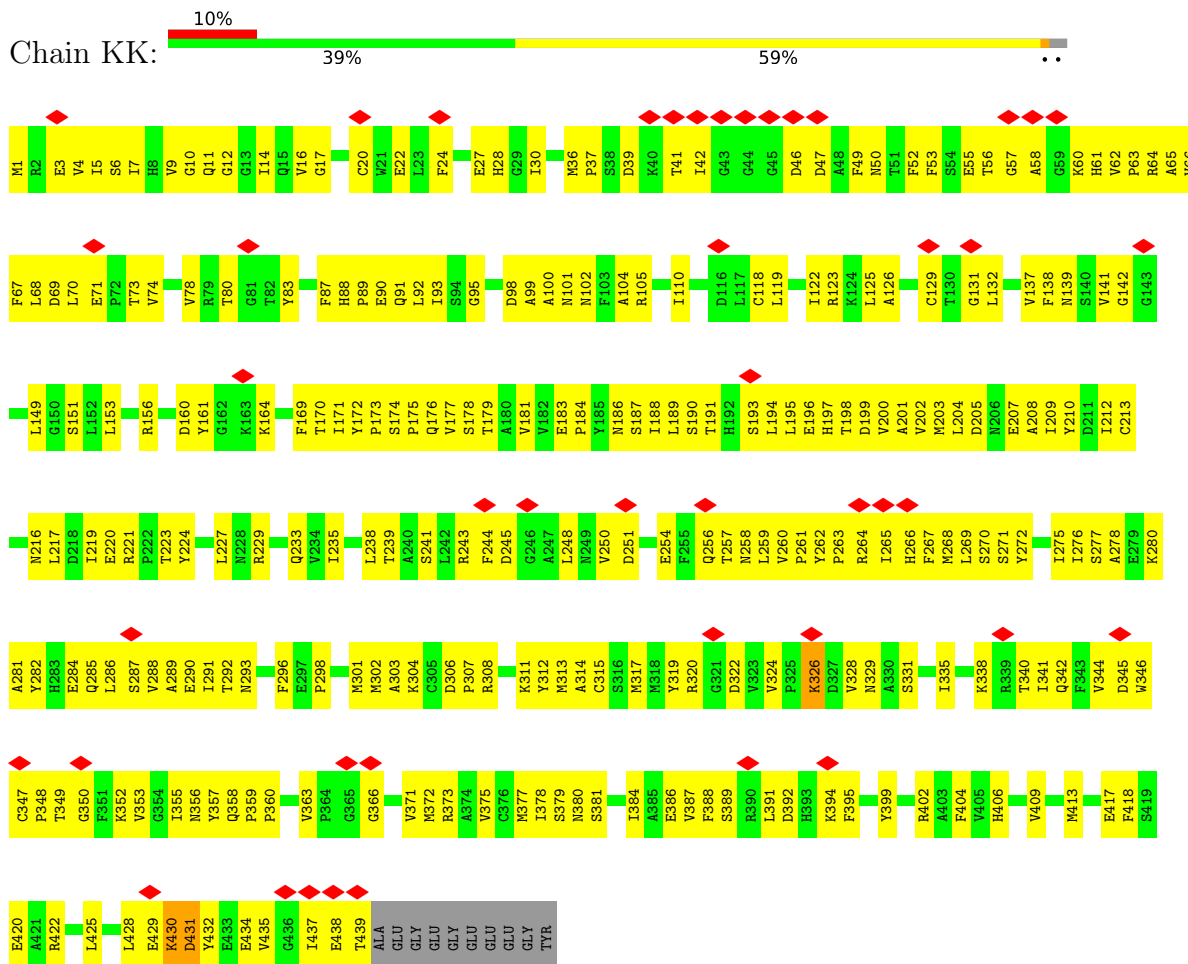




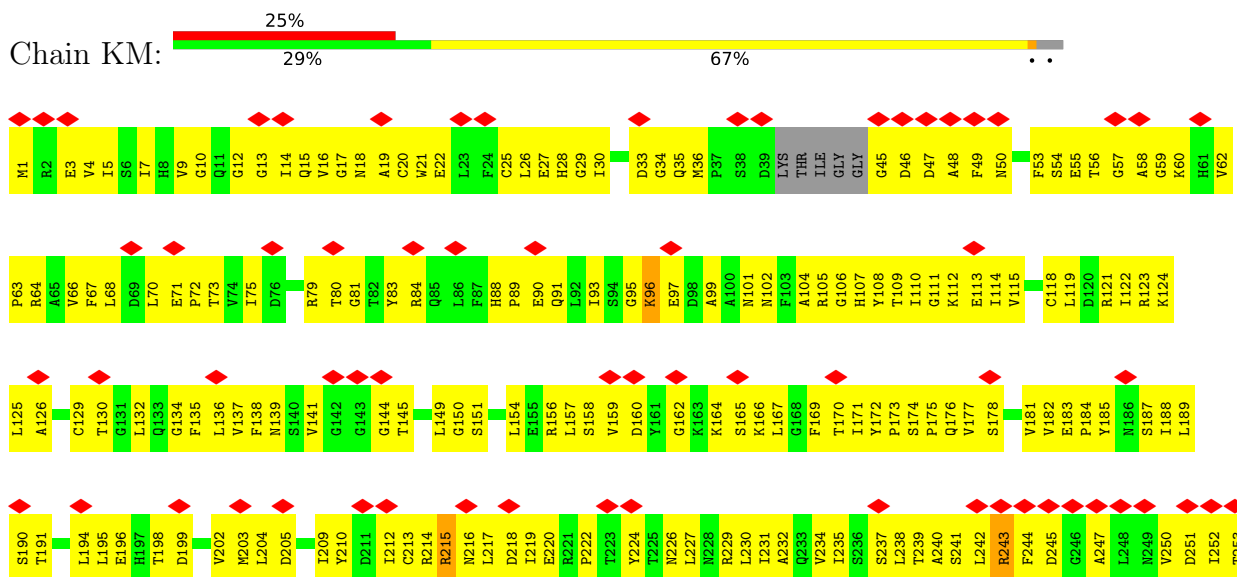
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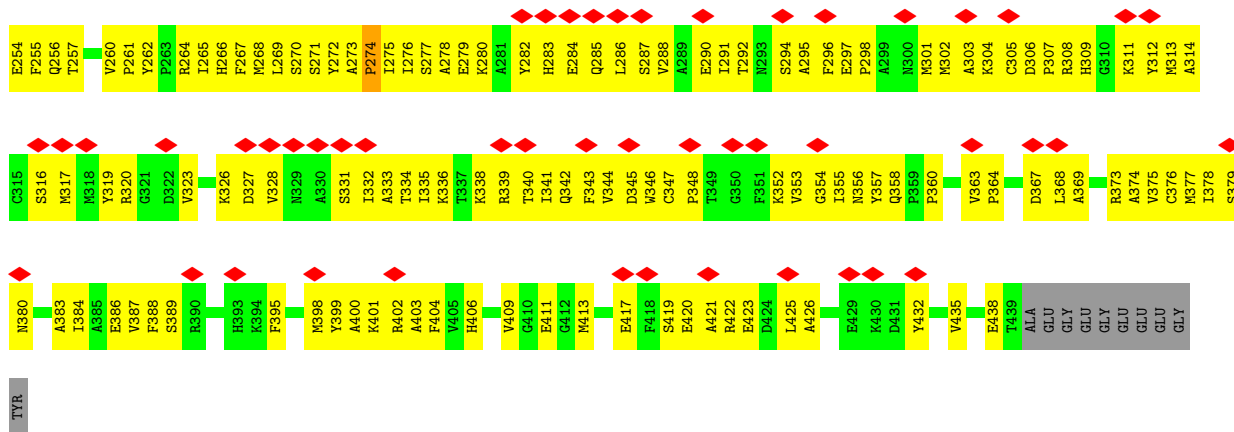


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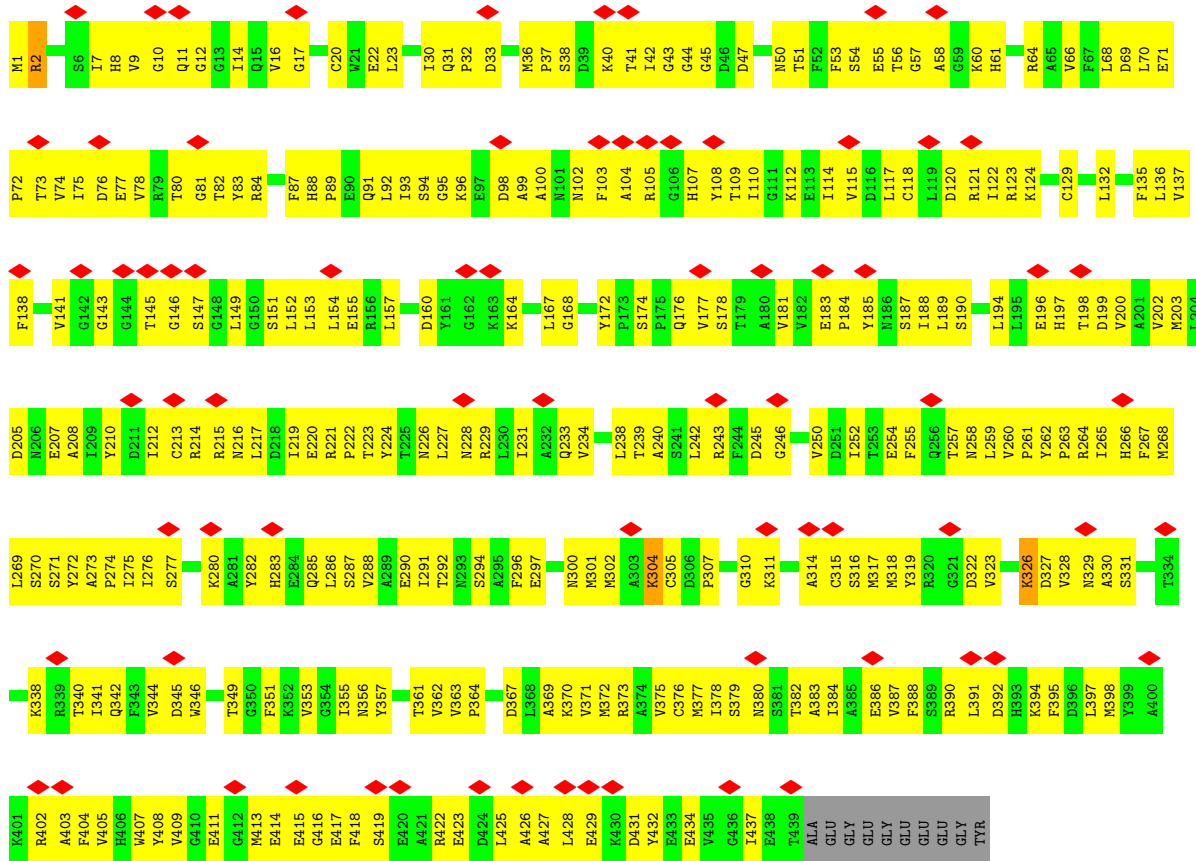


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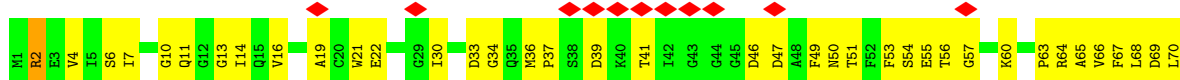




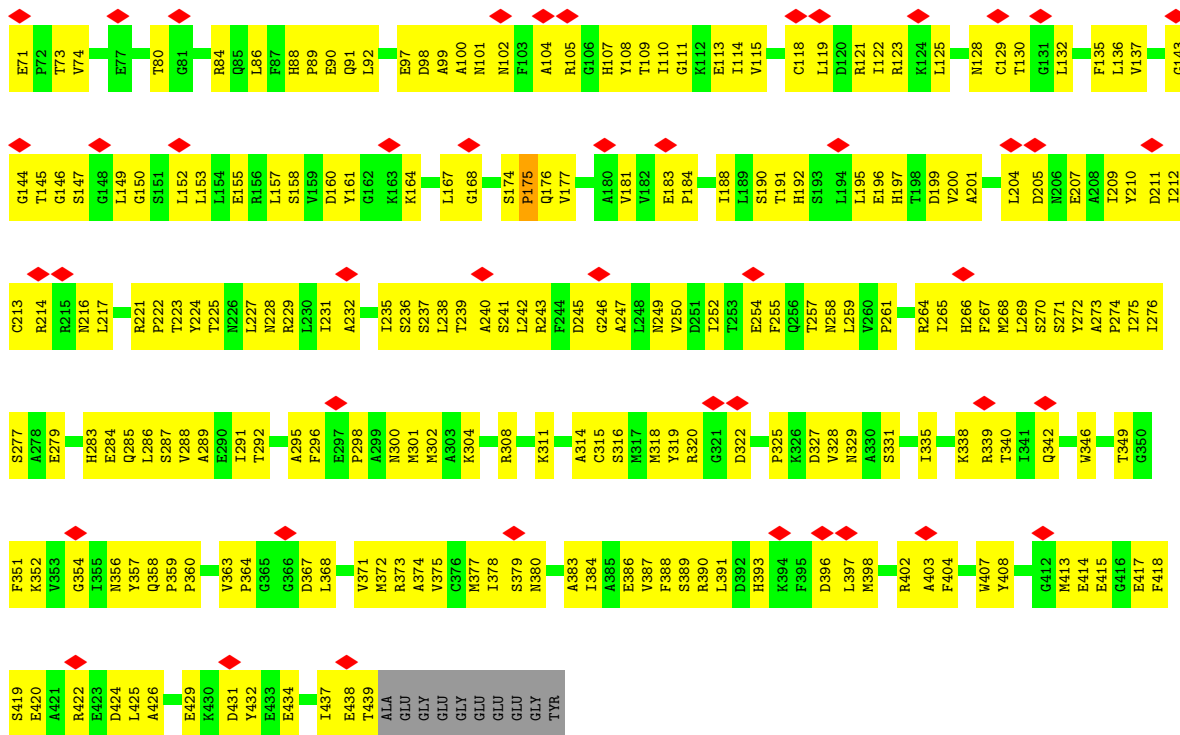
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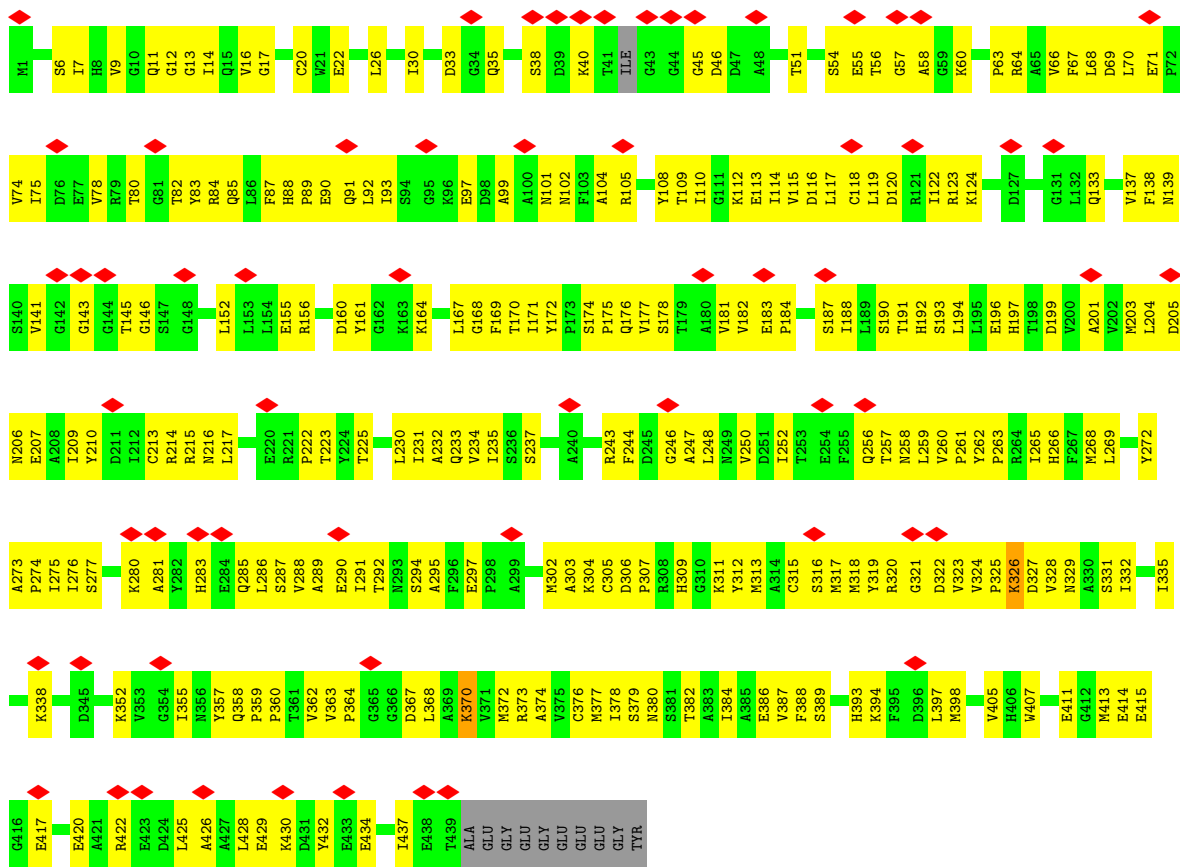
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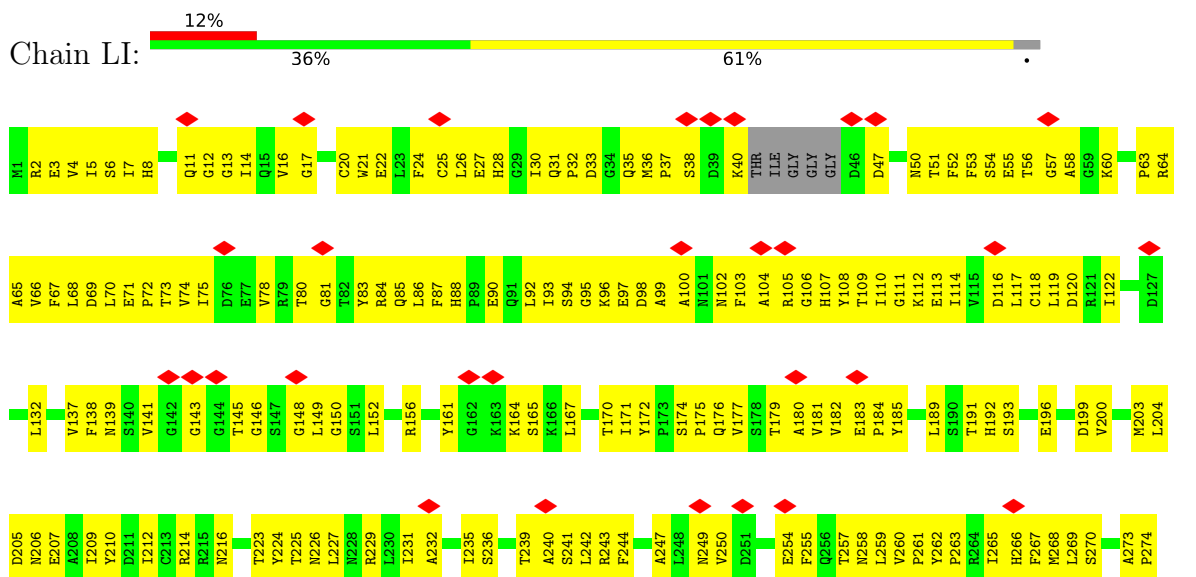
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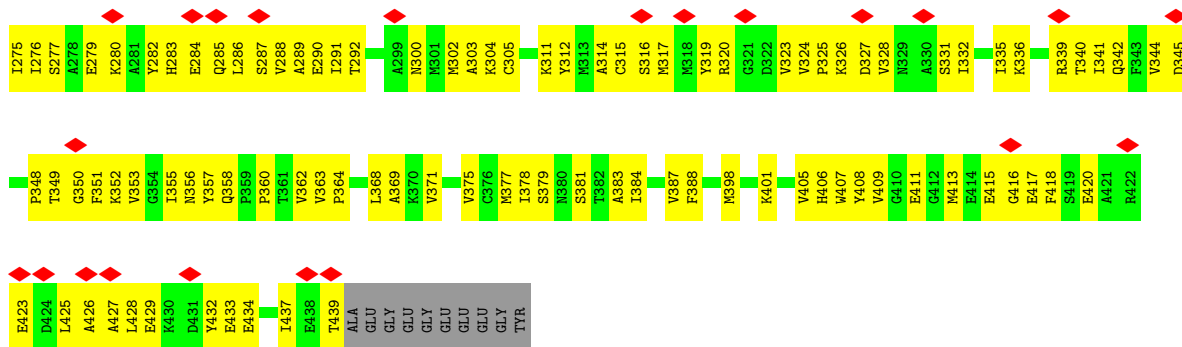


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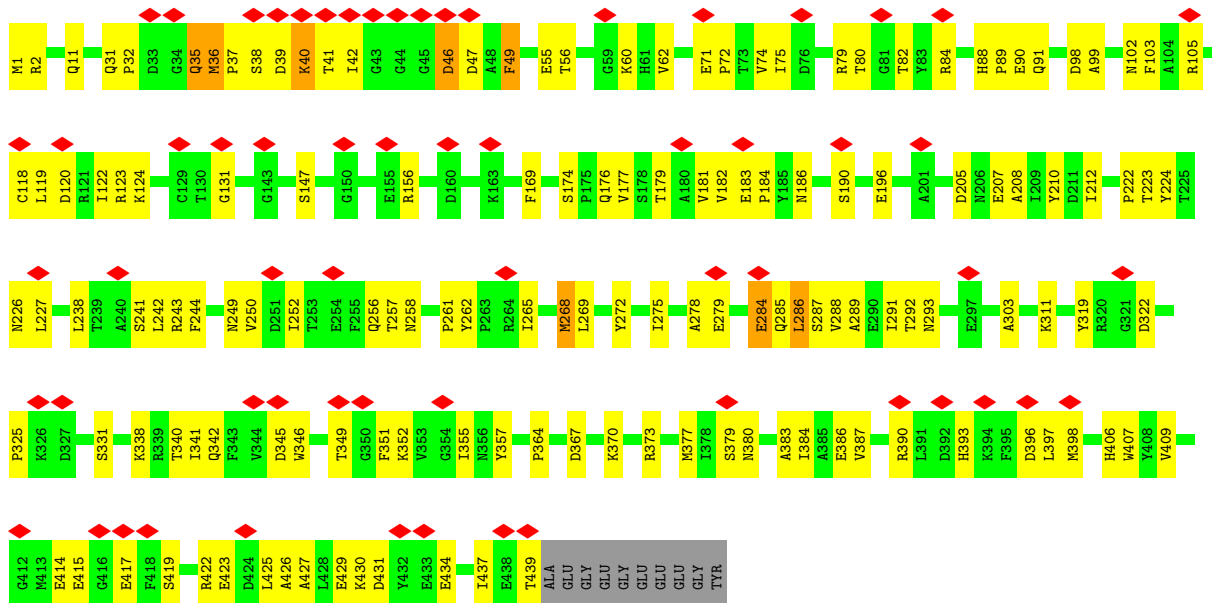


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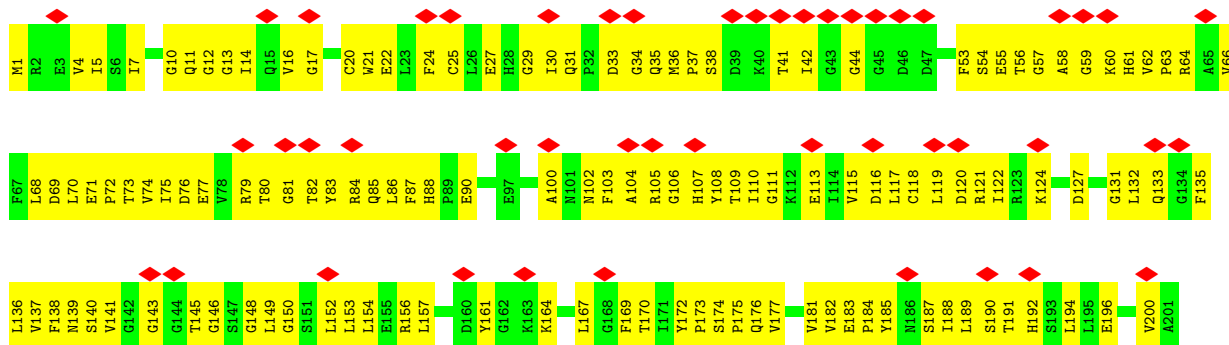


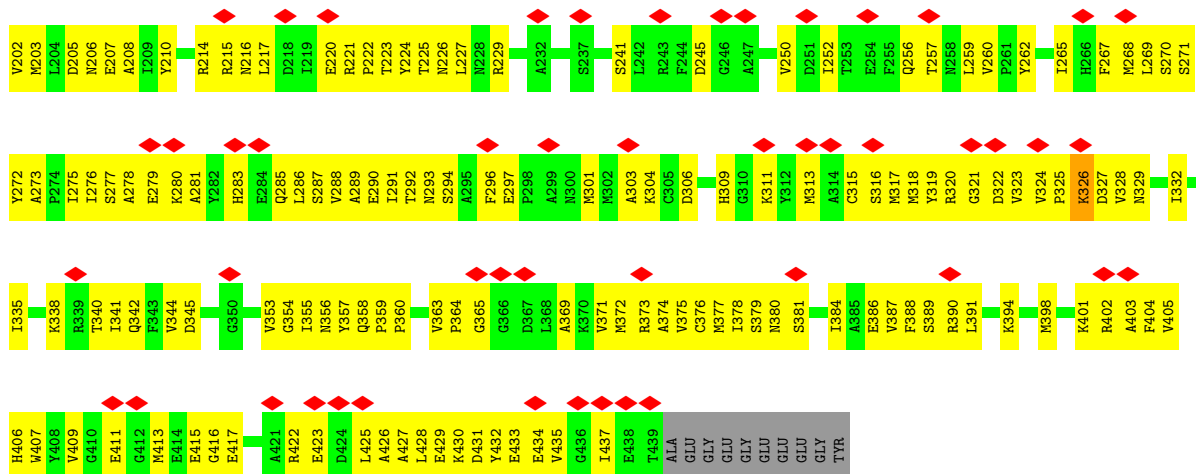


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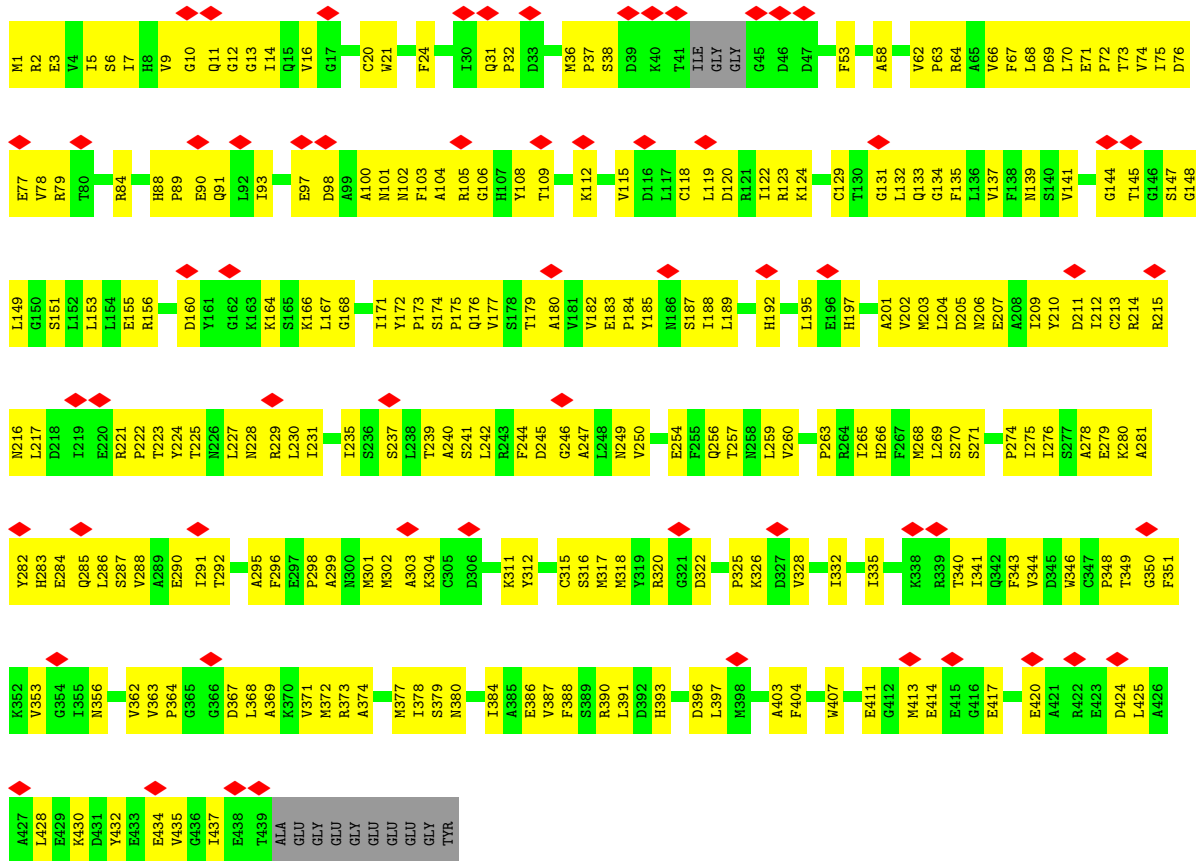


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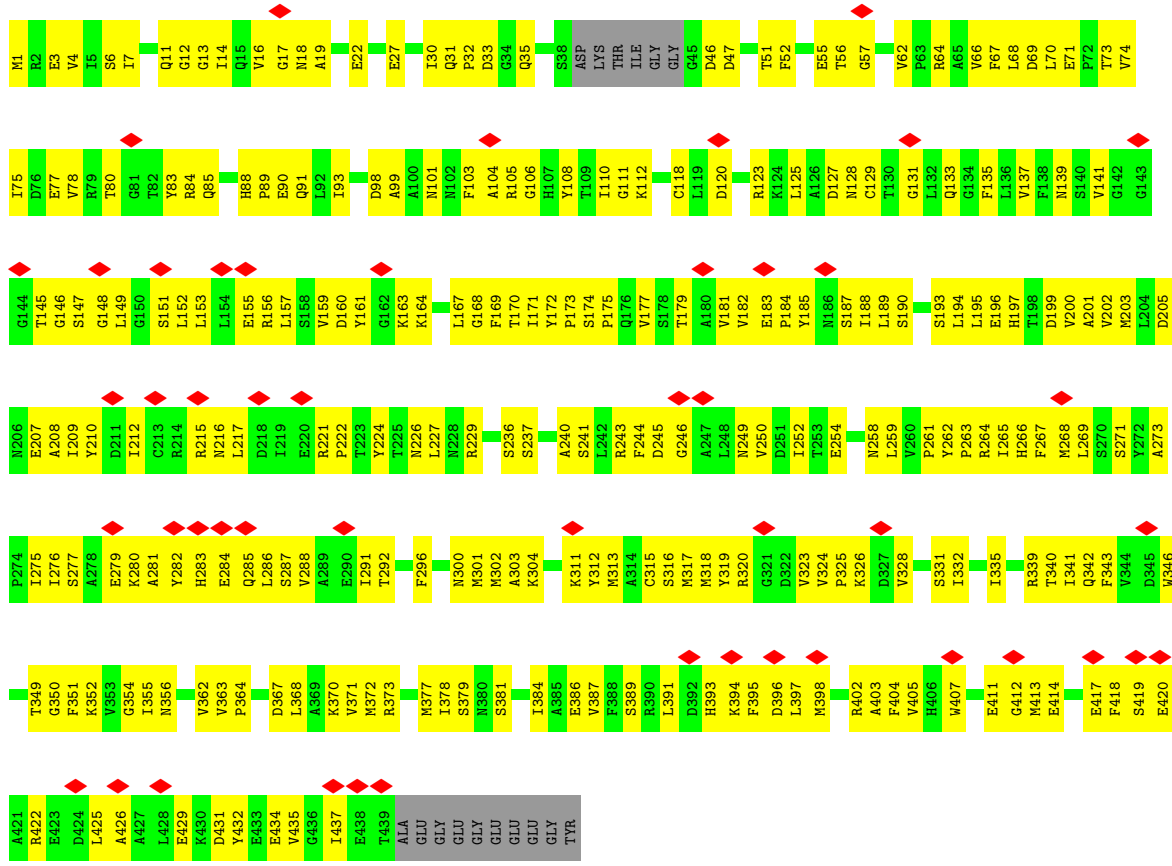


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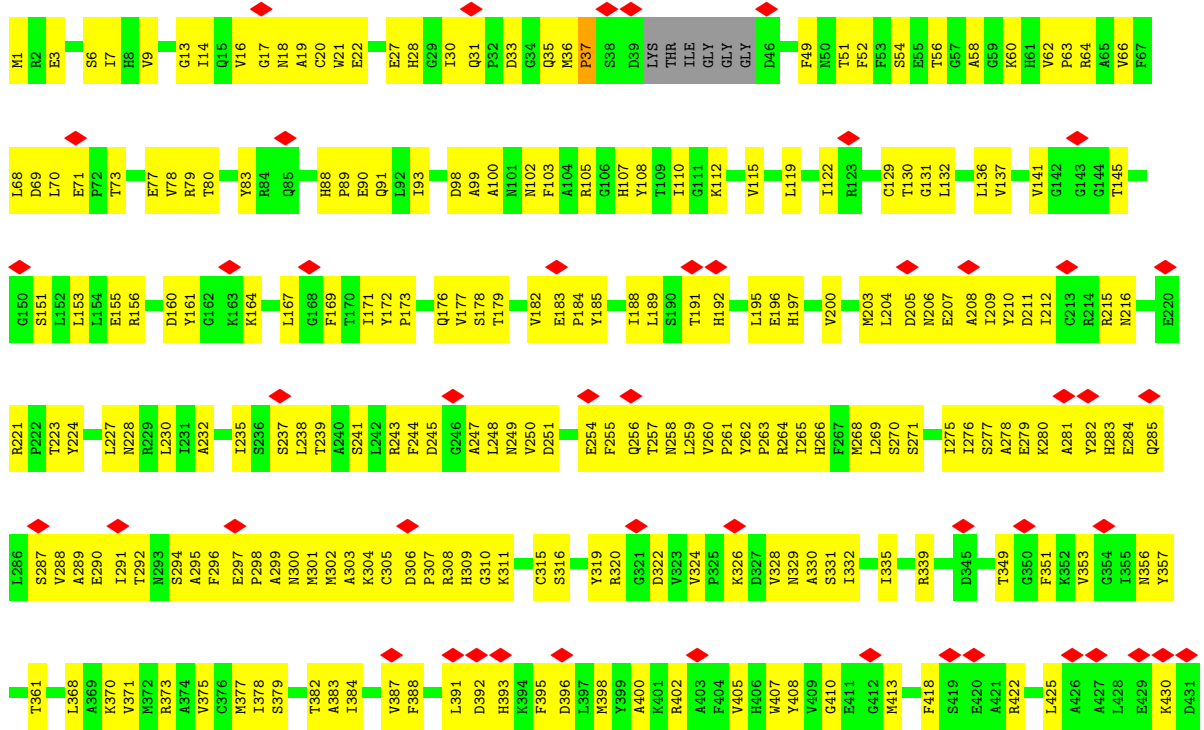
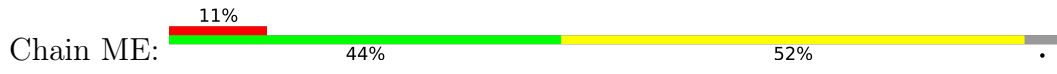


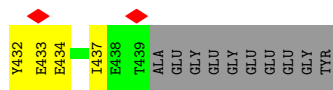
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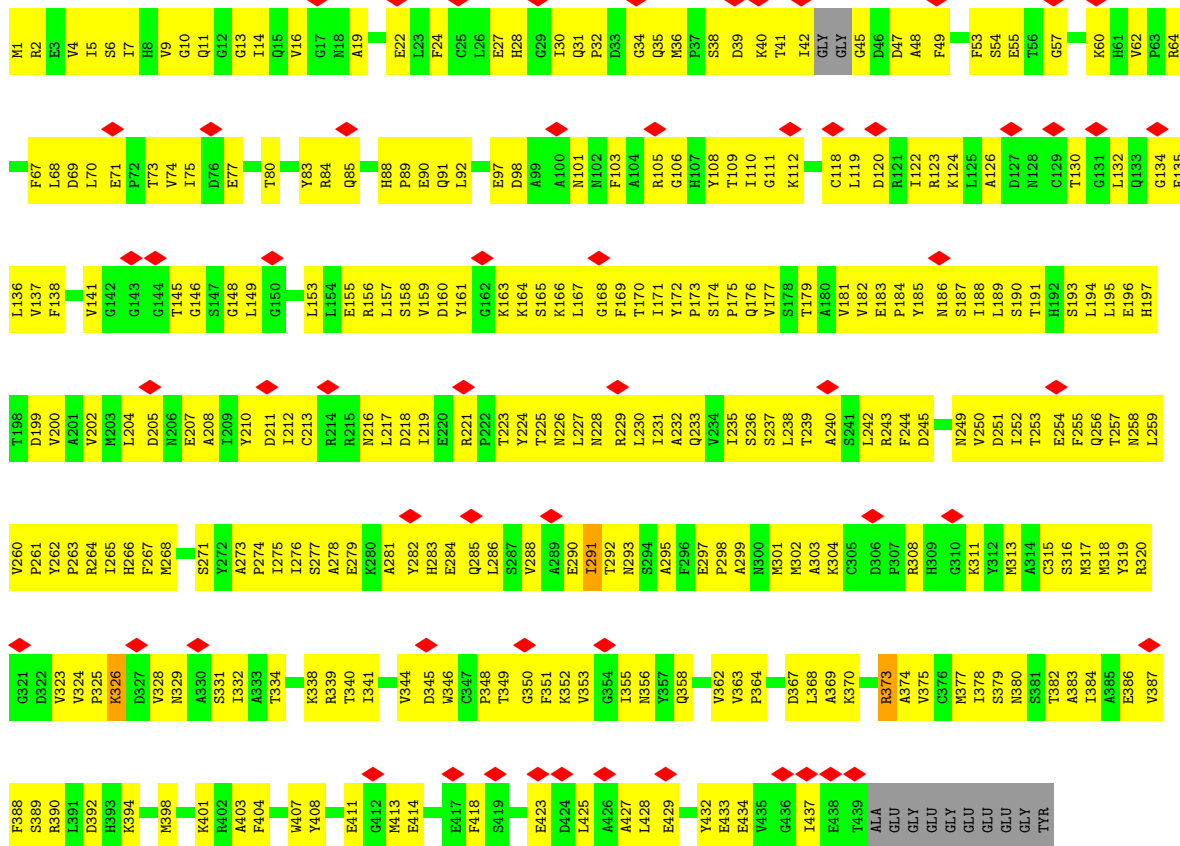
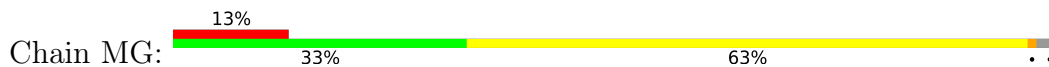


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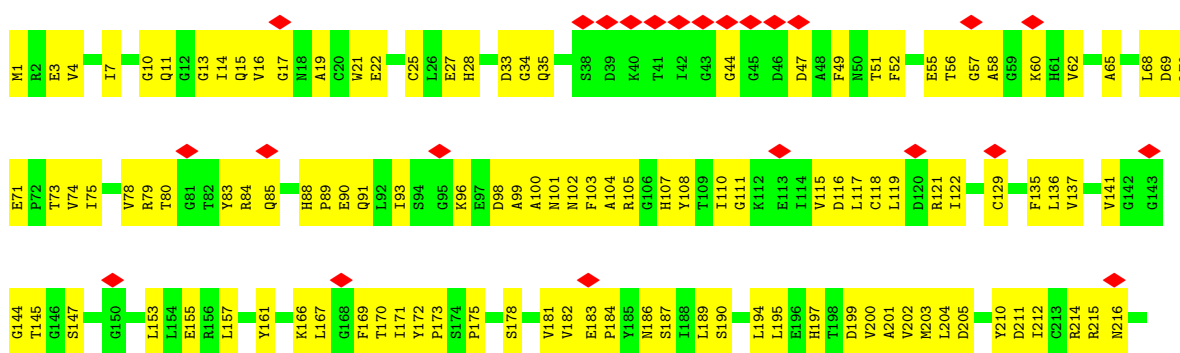
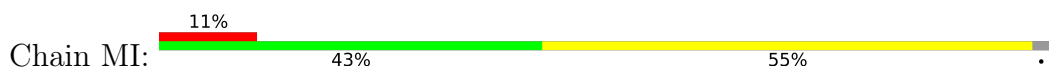


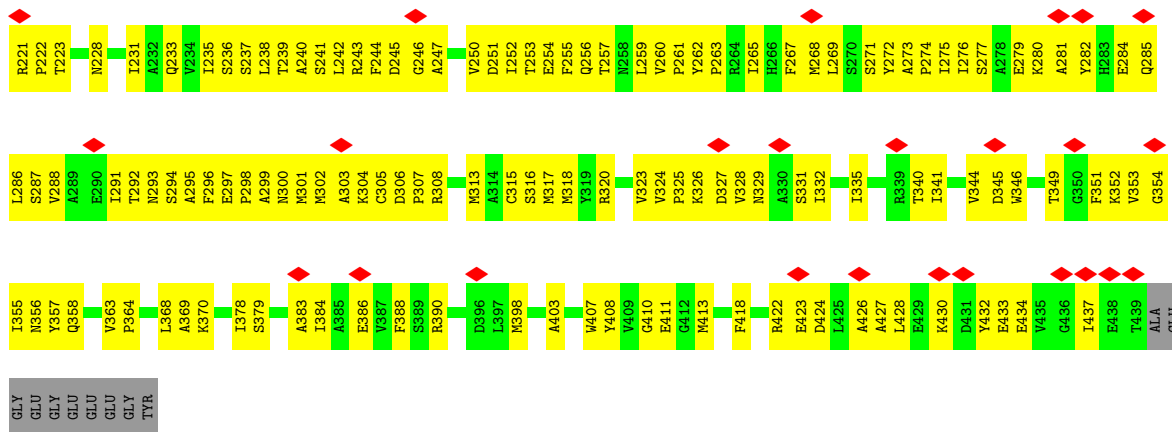


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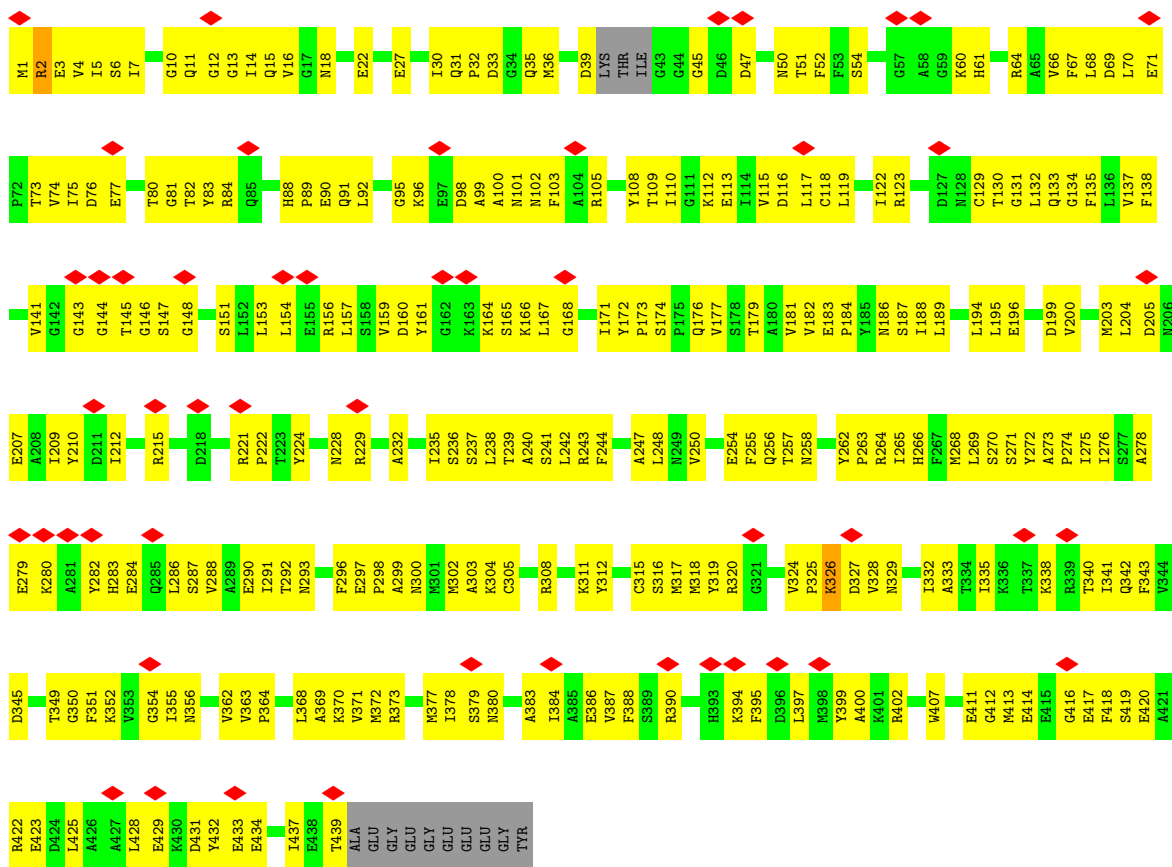


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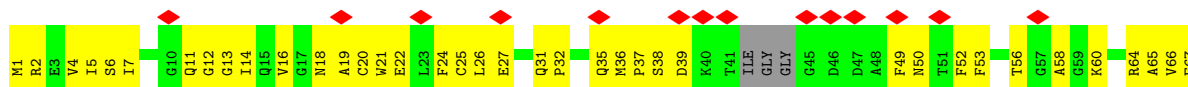




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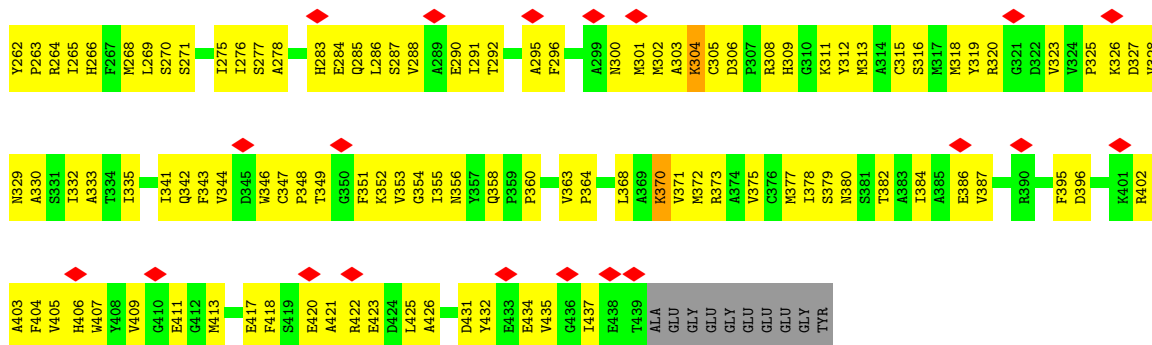
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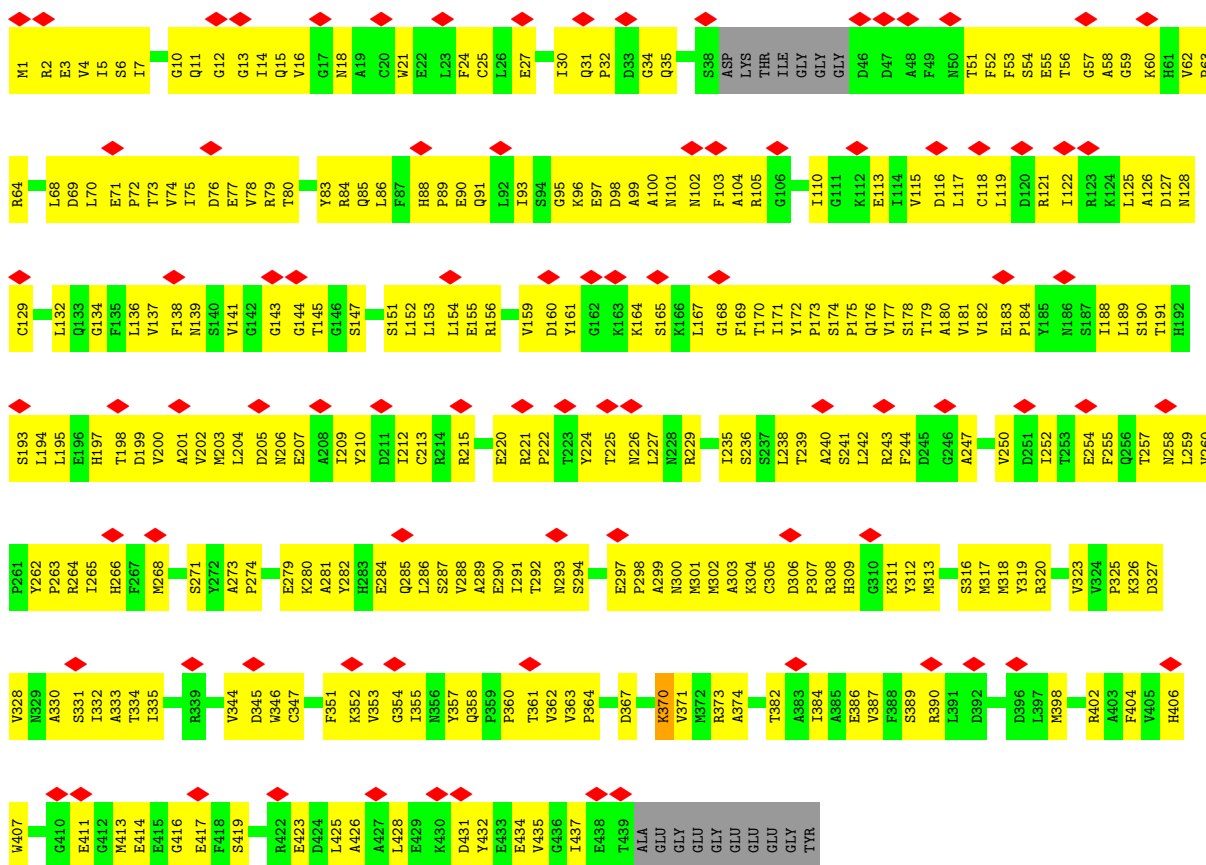




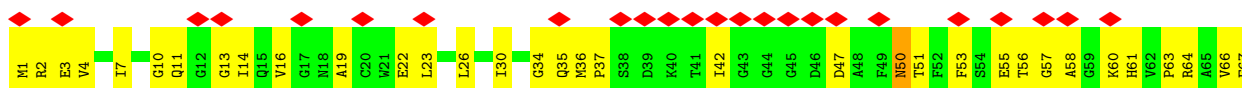
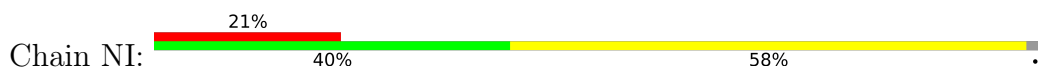


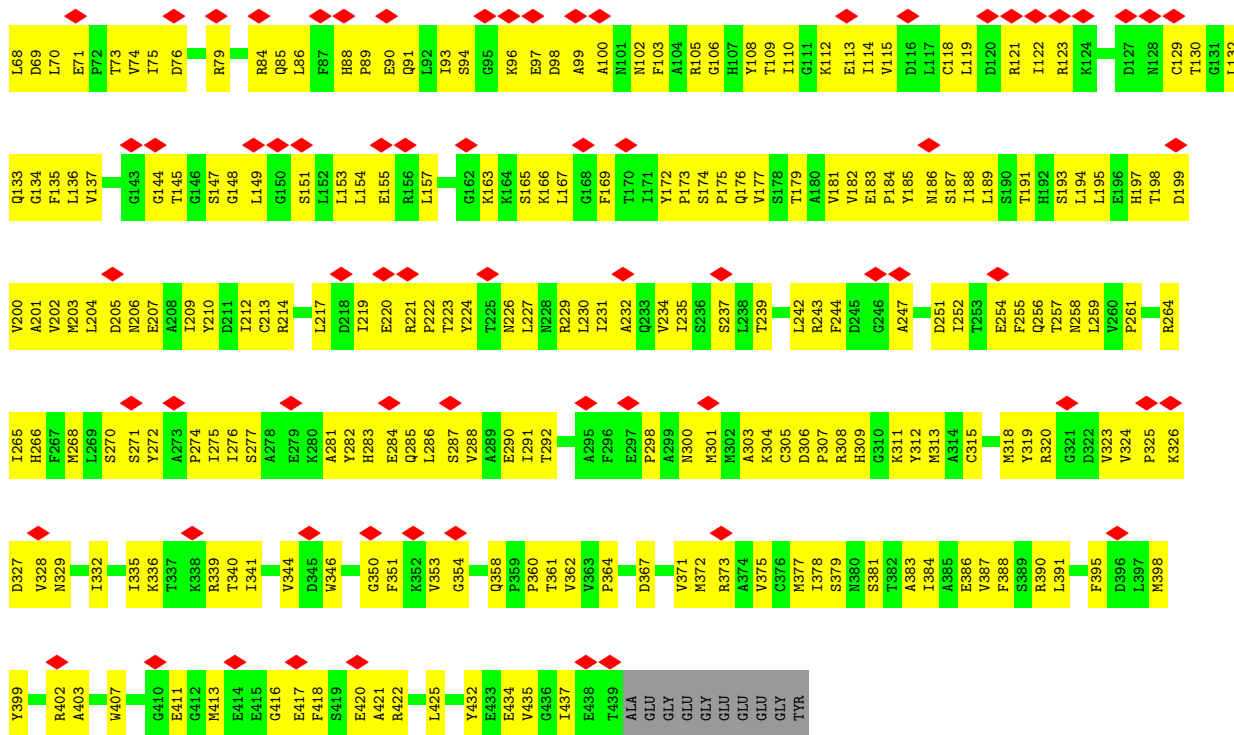


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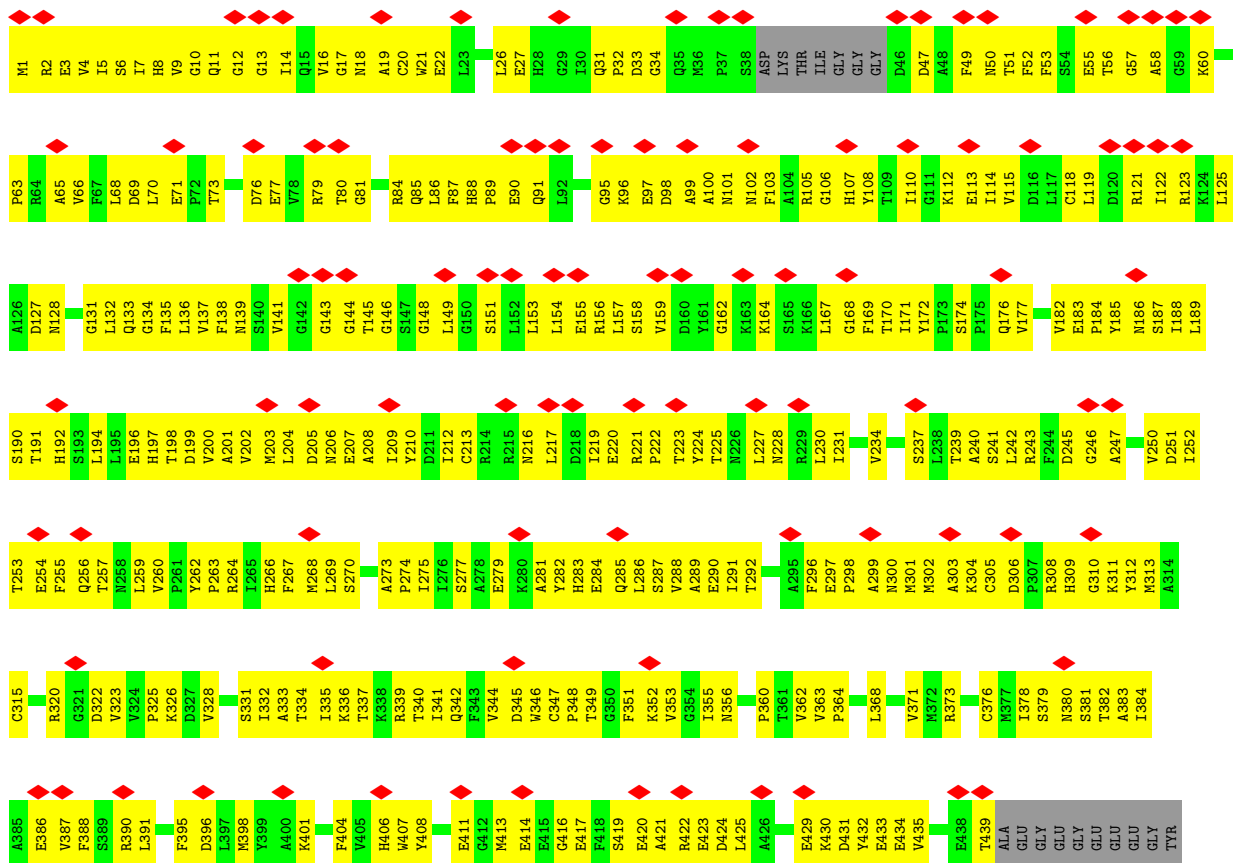


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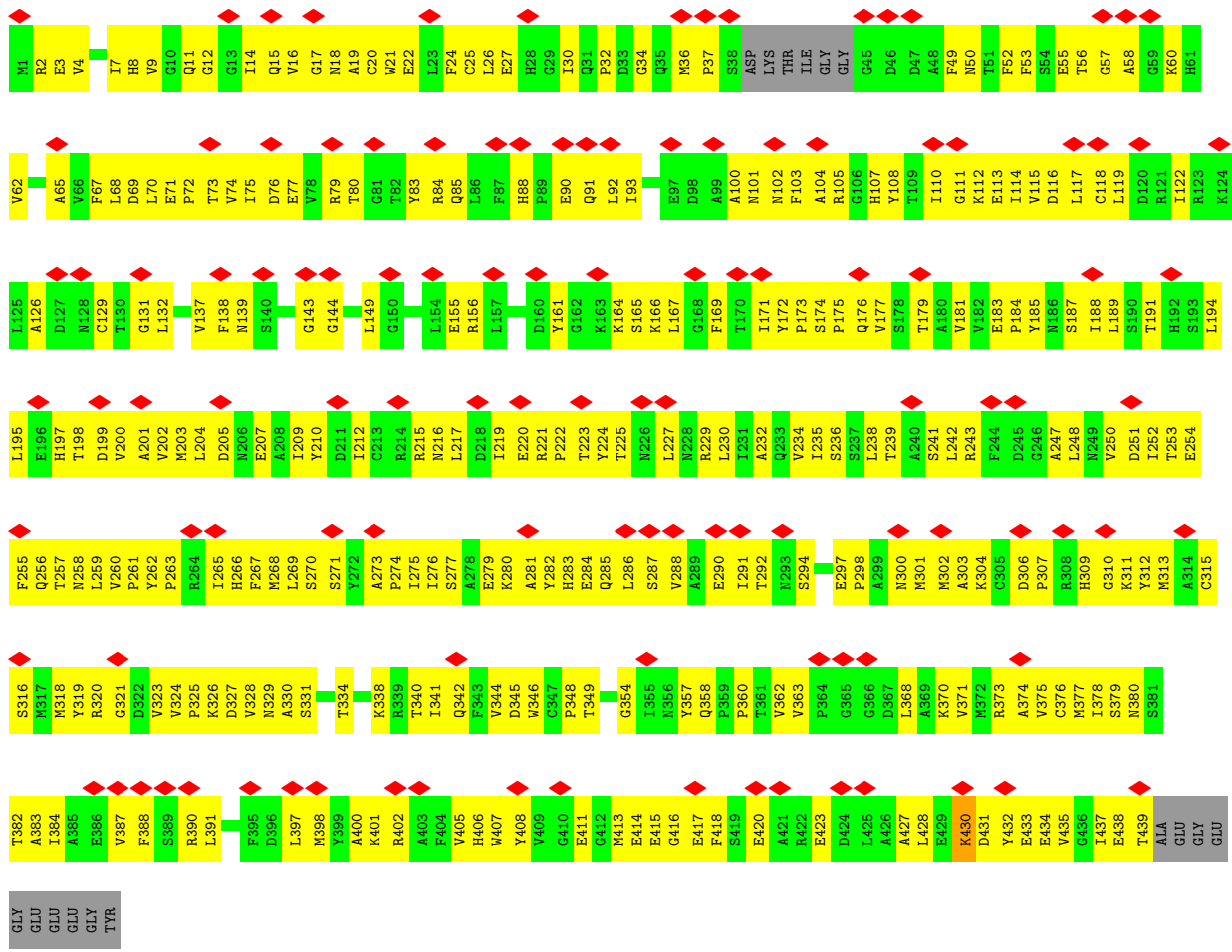
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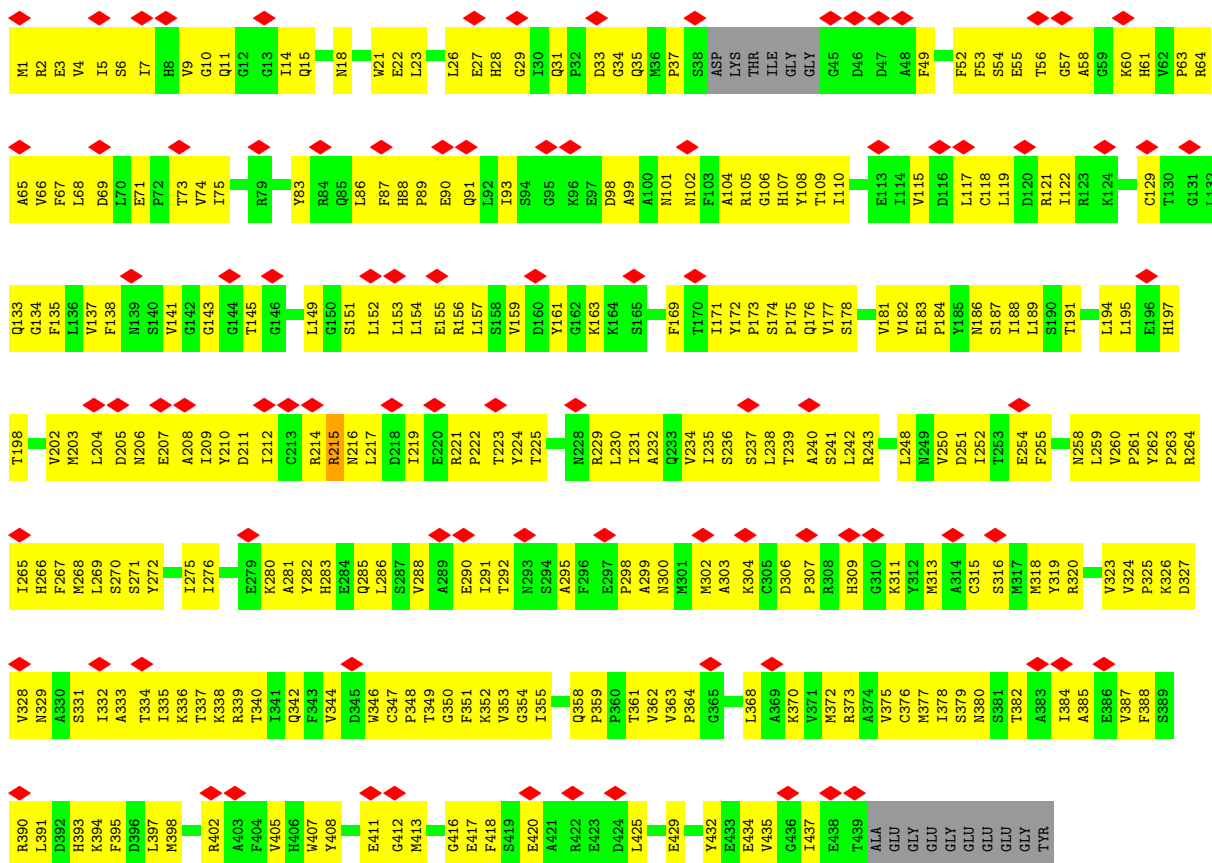


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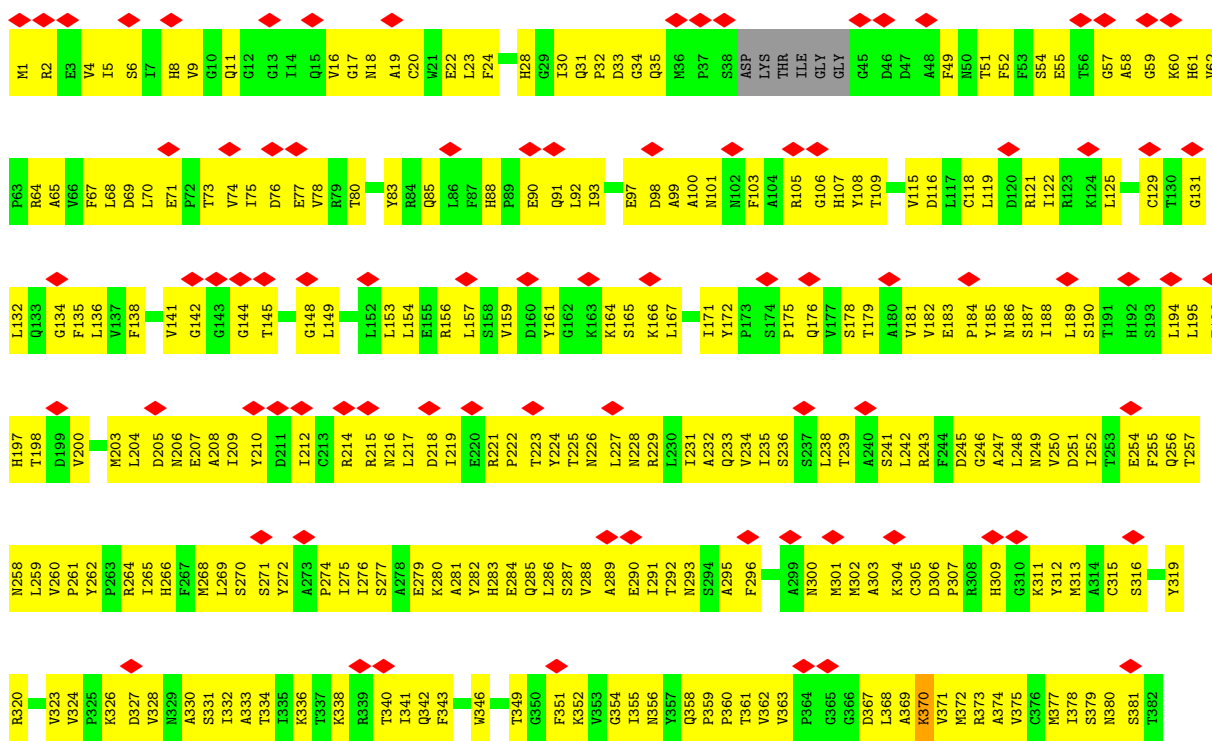


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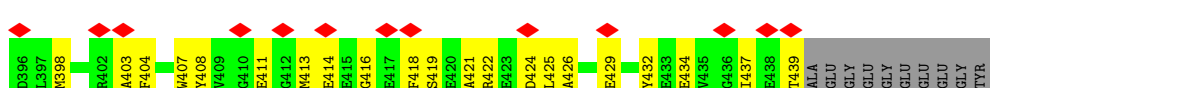
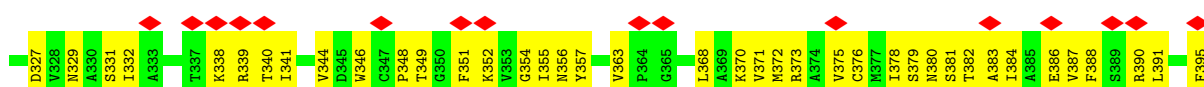
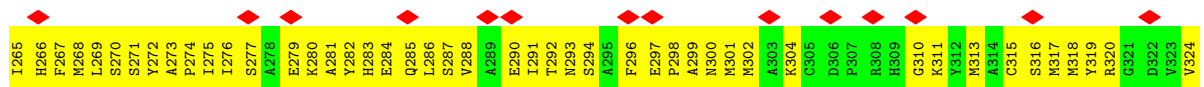
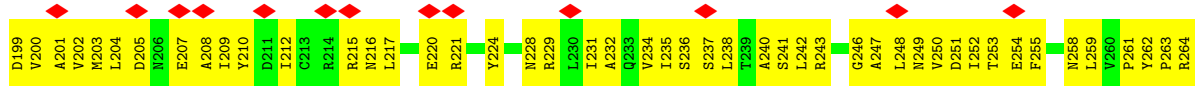
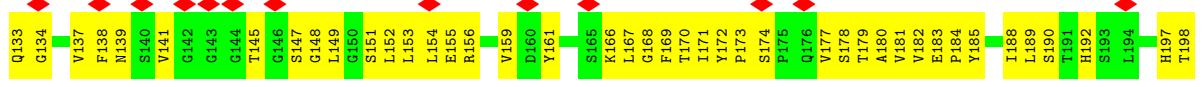
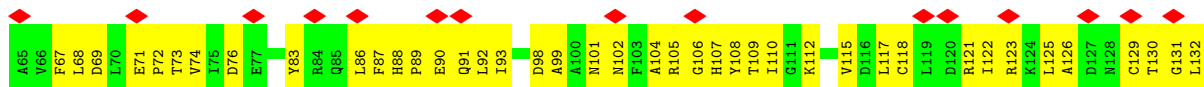
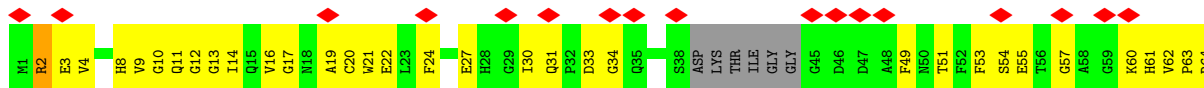
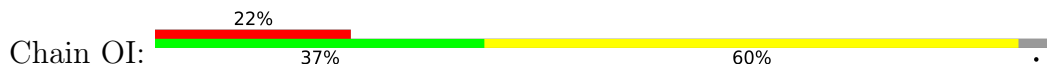


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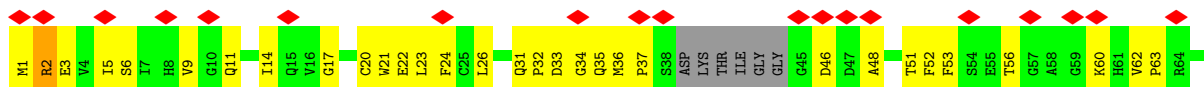


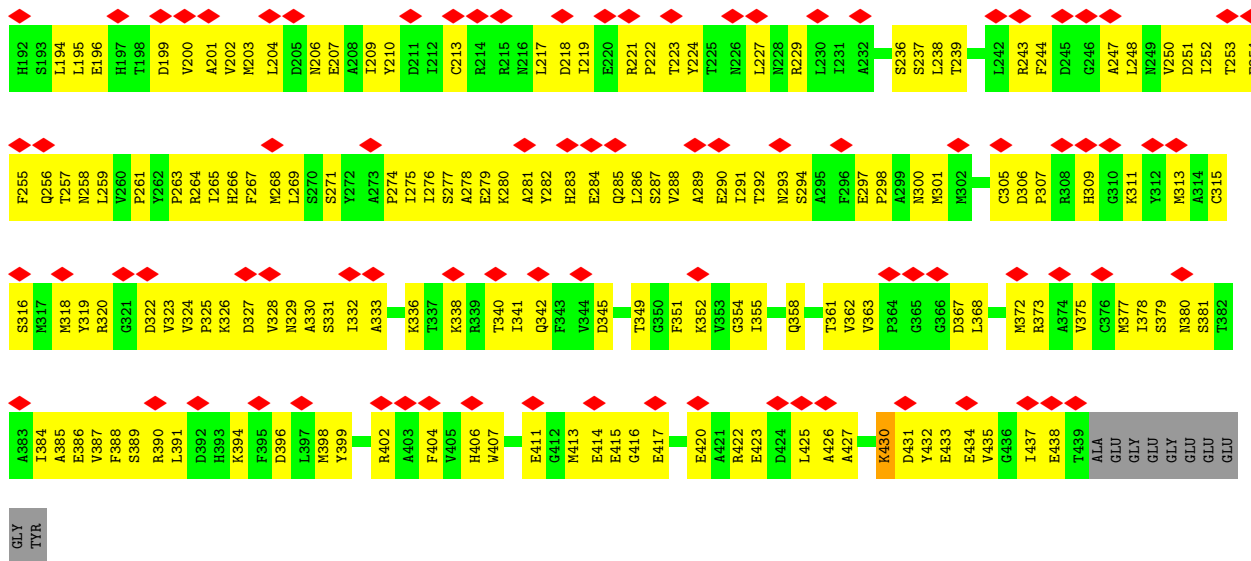


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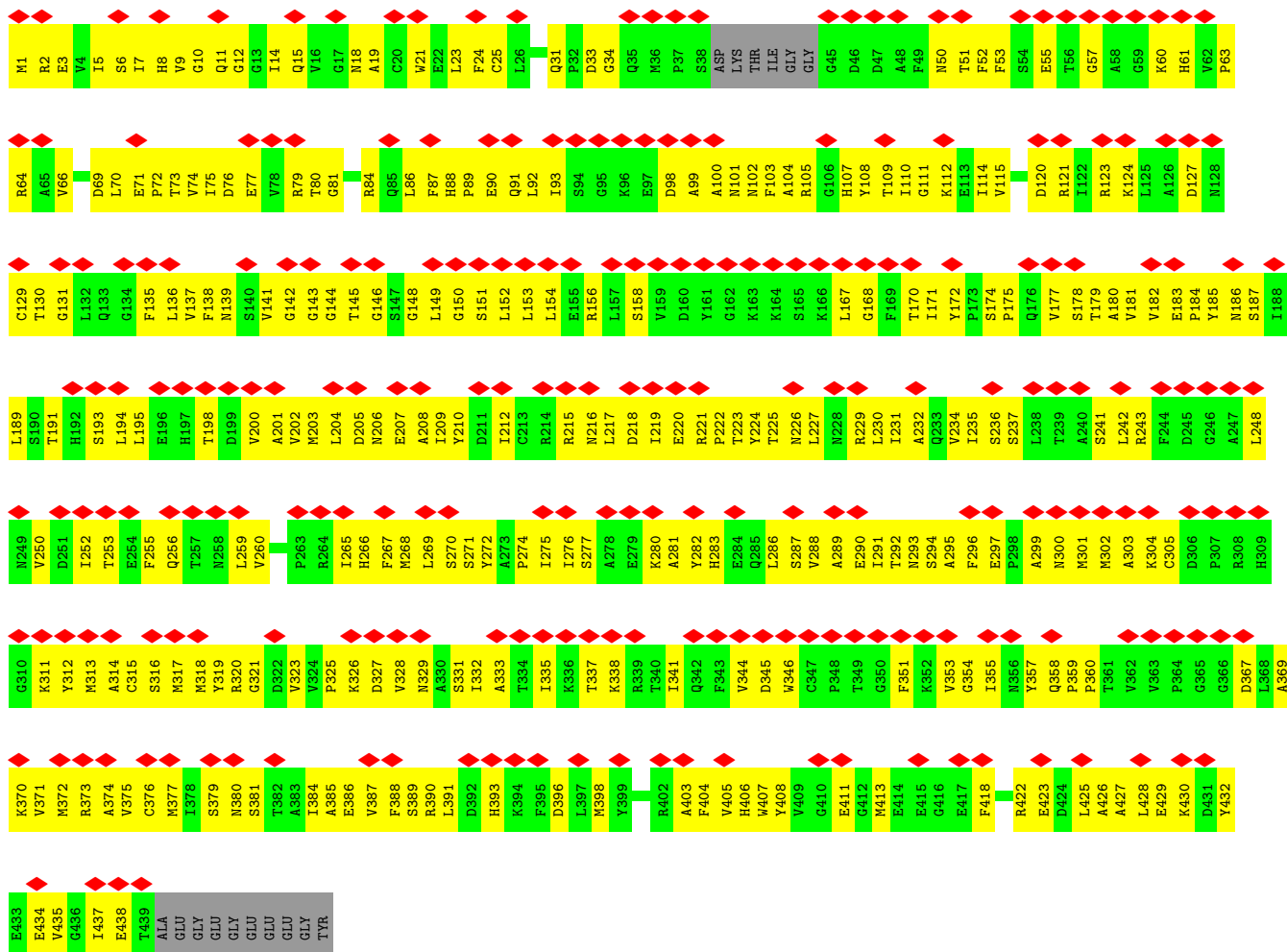


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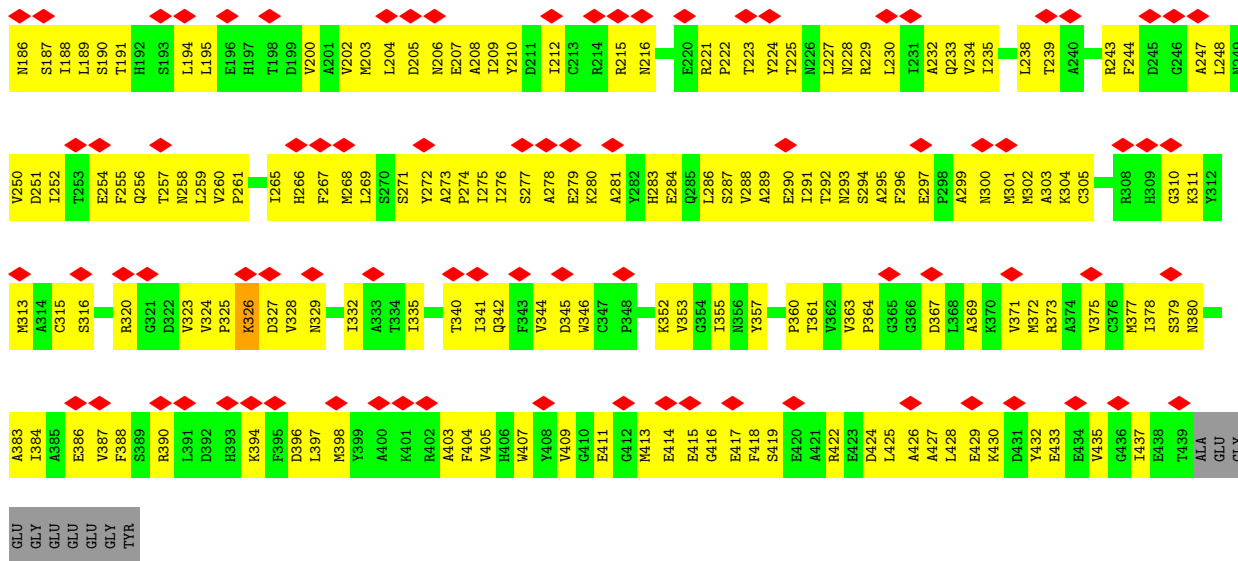


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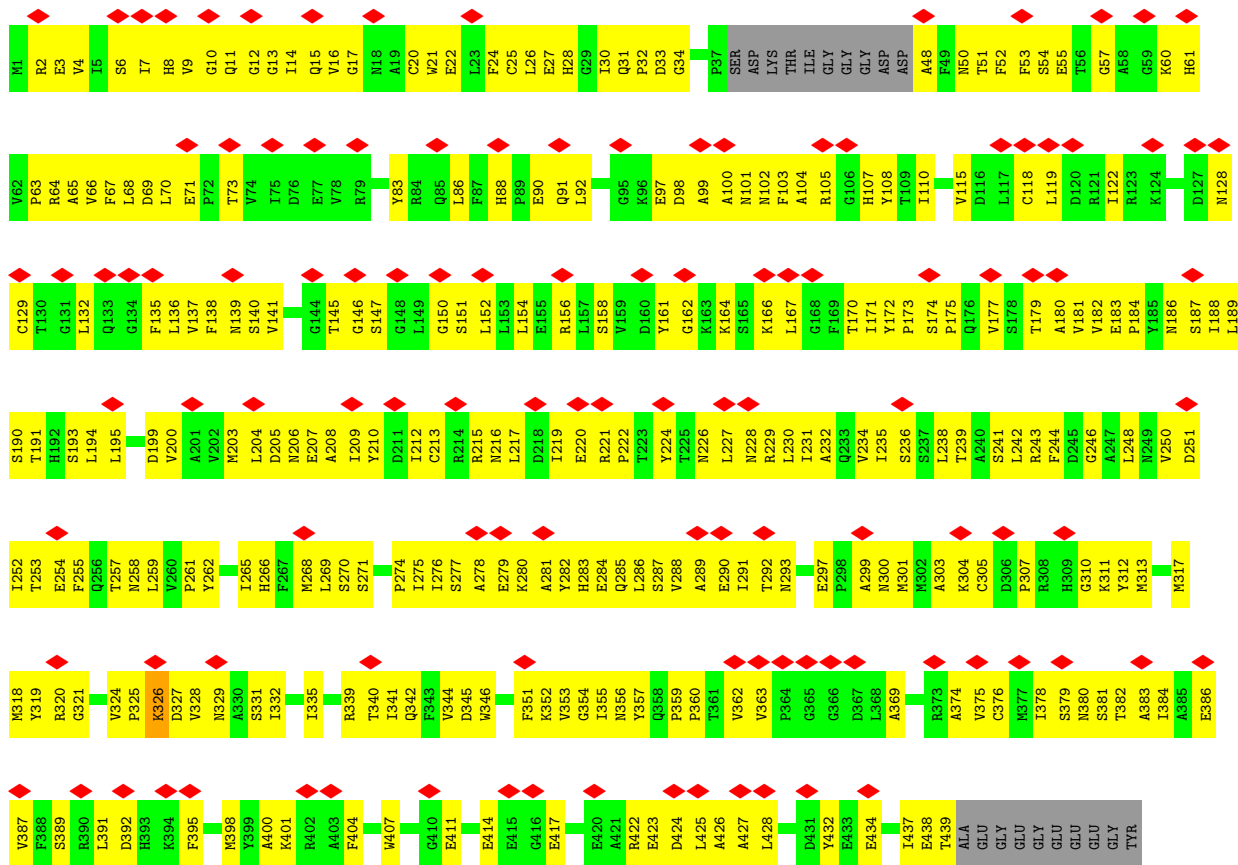








• Molecule 44: Tubulin alpha chain



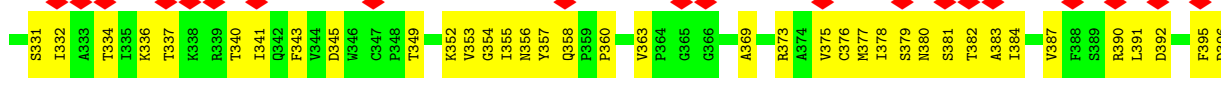
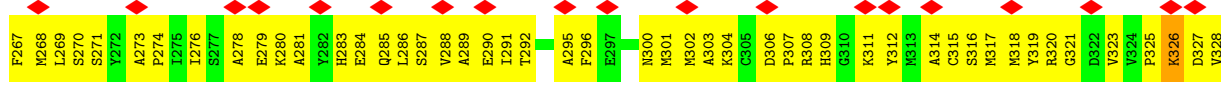
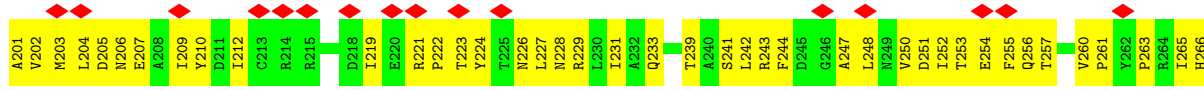
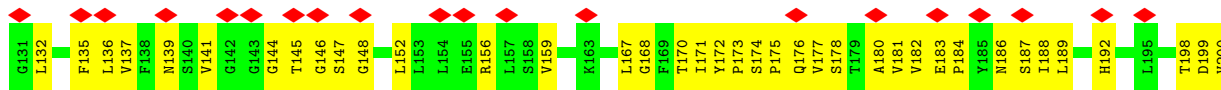
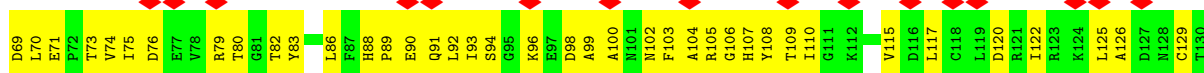
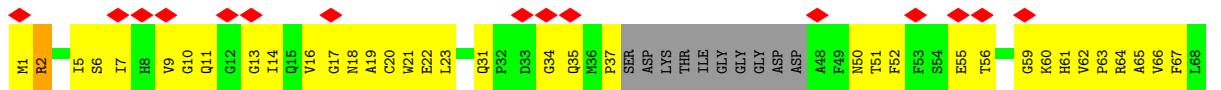
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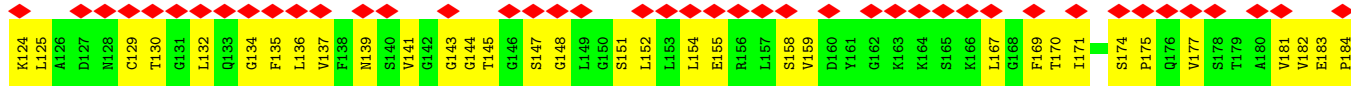
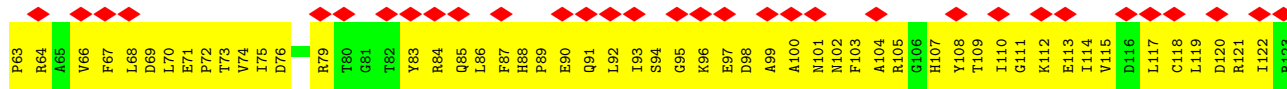
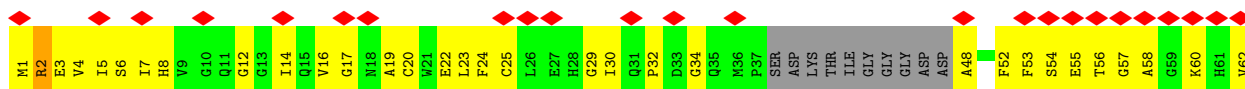


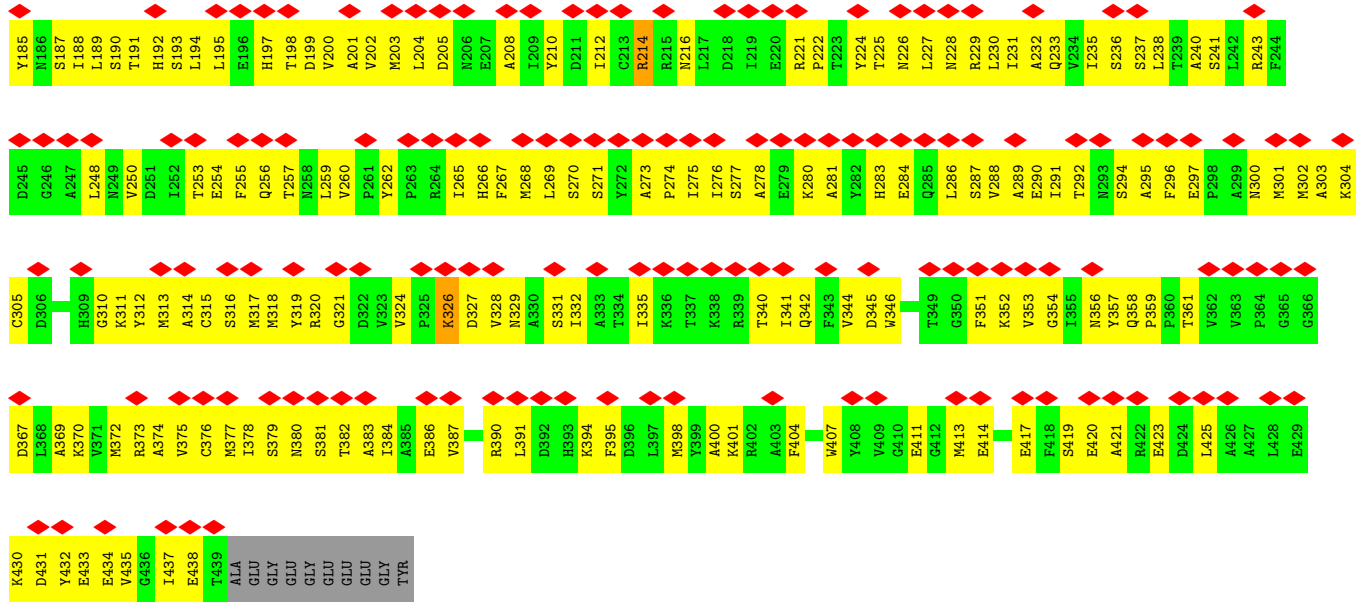


• Molecule 44: Tubulin alpha chain

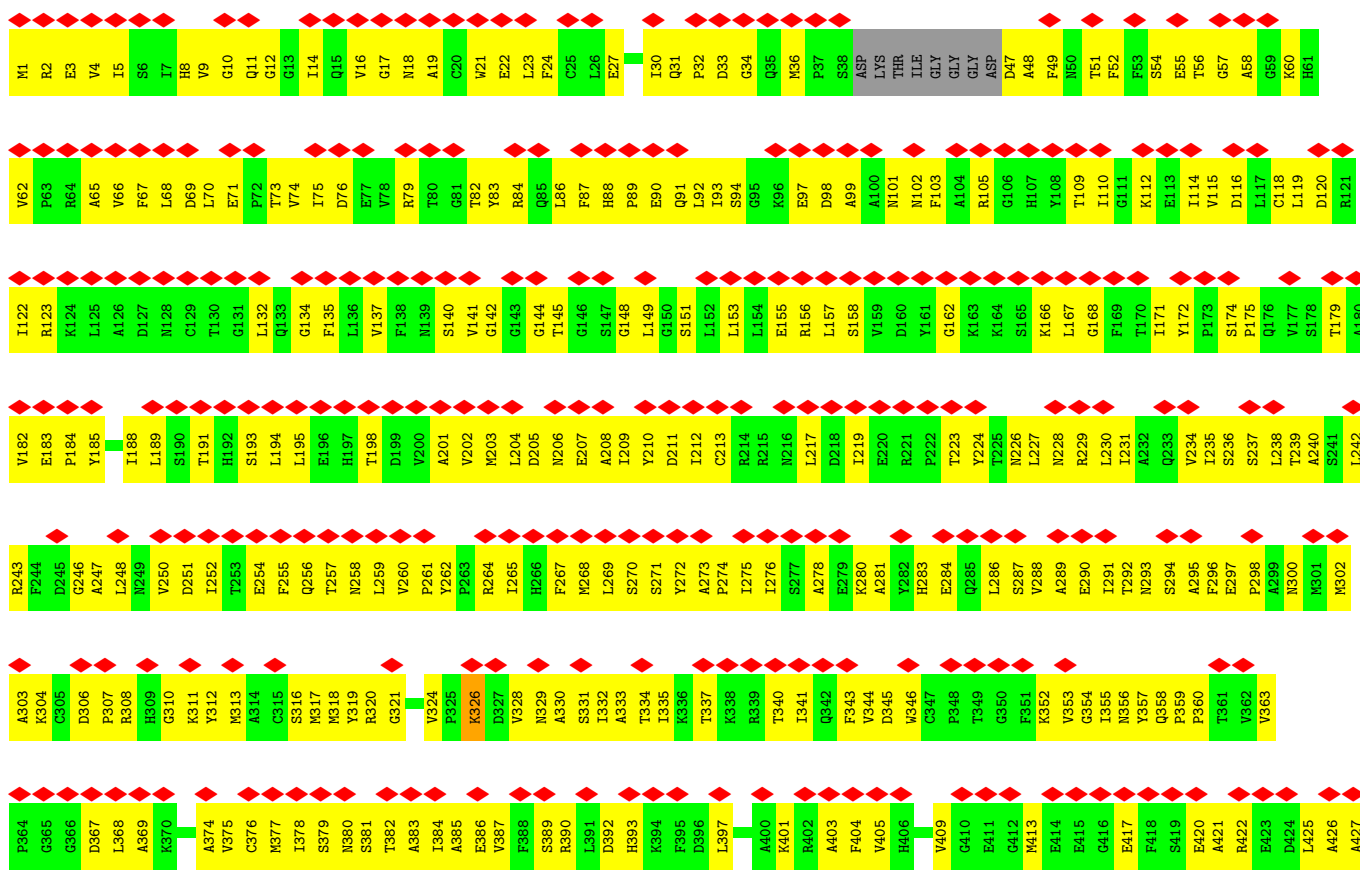


• Molecule 44: Tubulin alpha chain



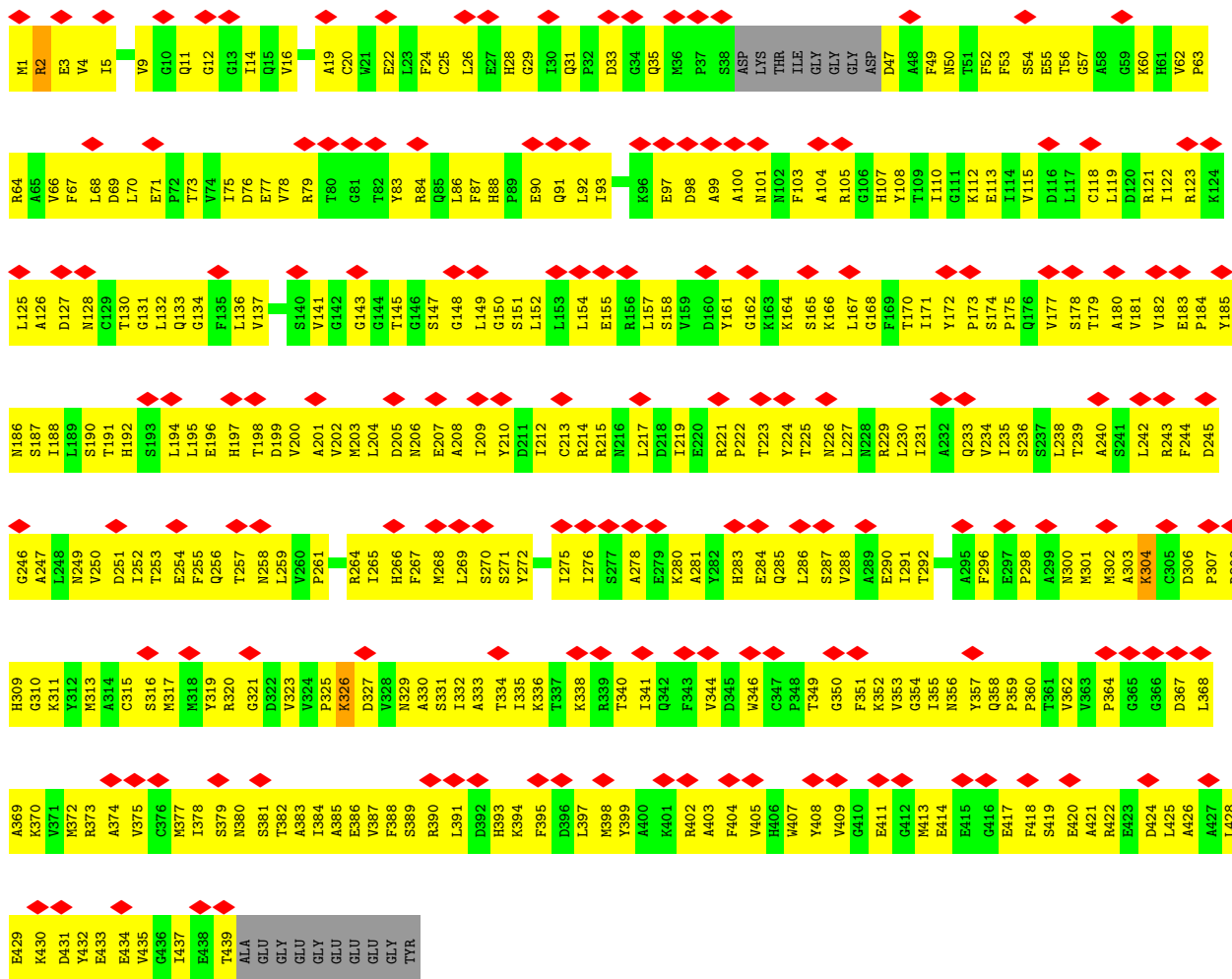


• Molecule 44: Tubulin alpha chain

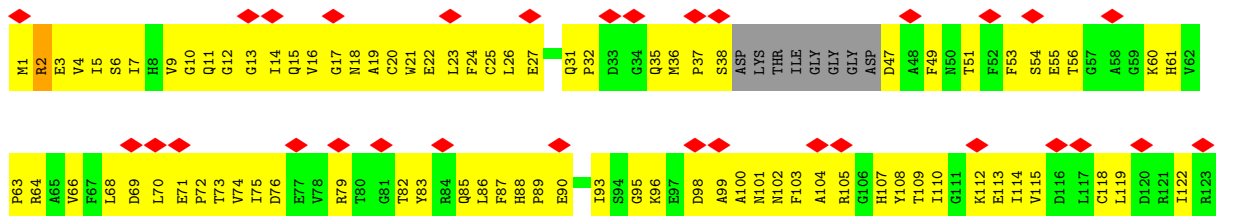


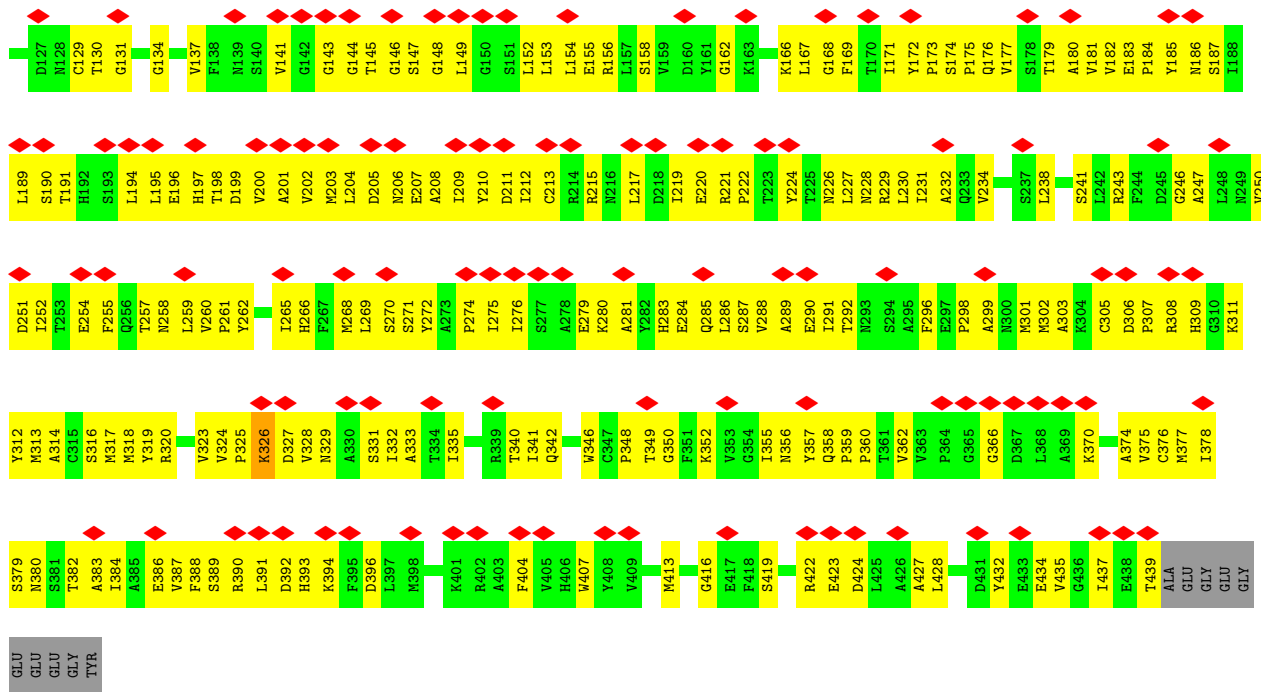


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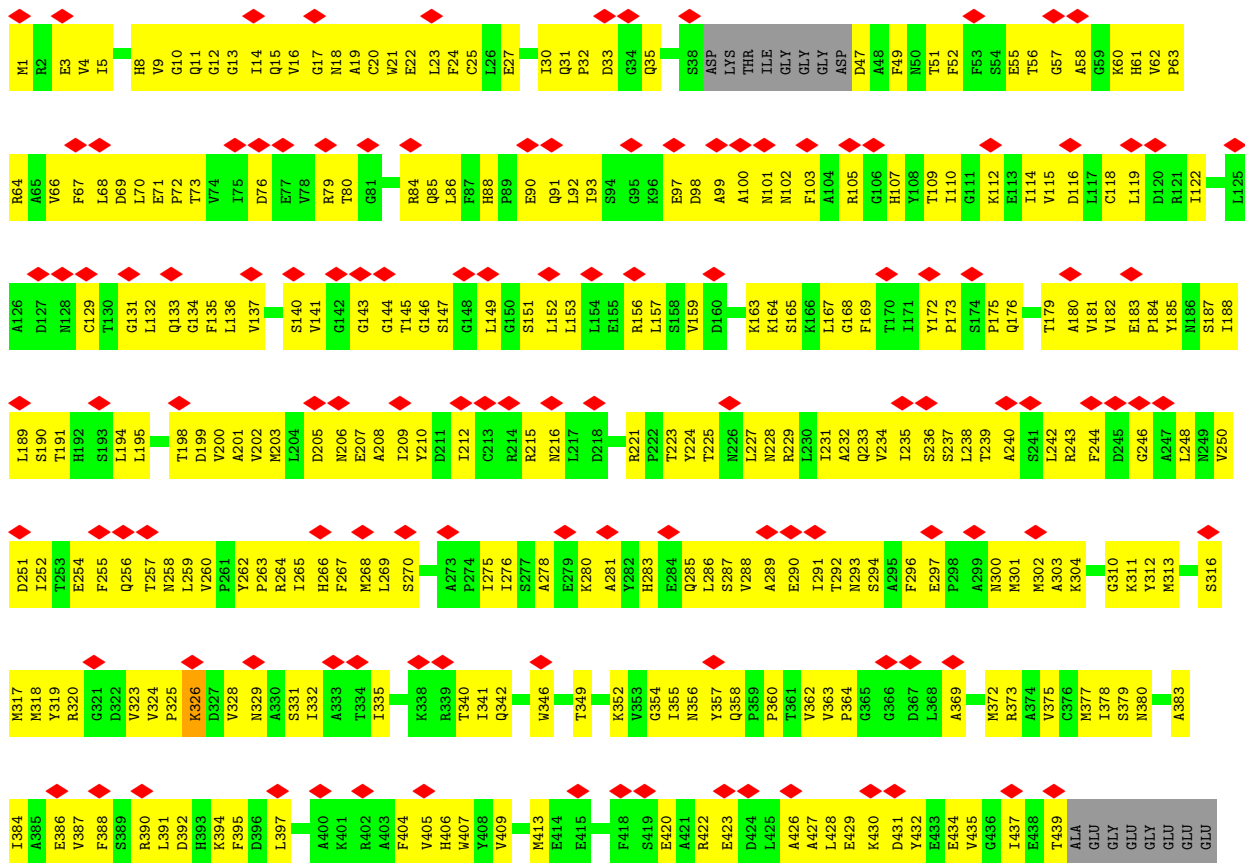


• Molecule 44: Tubulin alpha chain



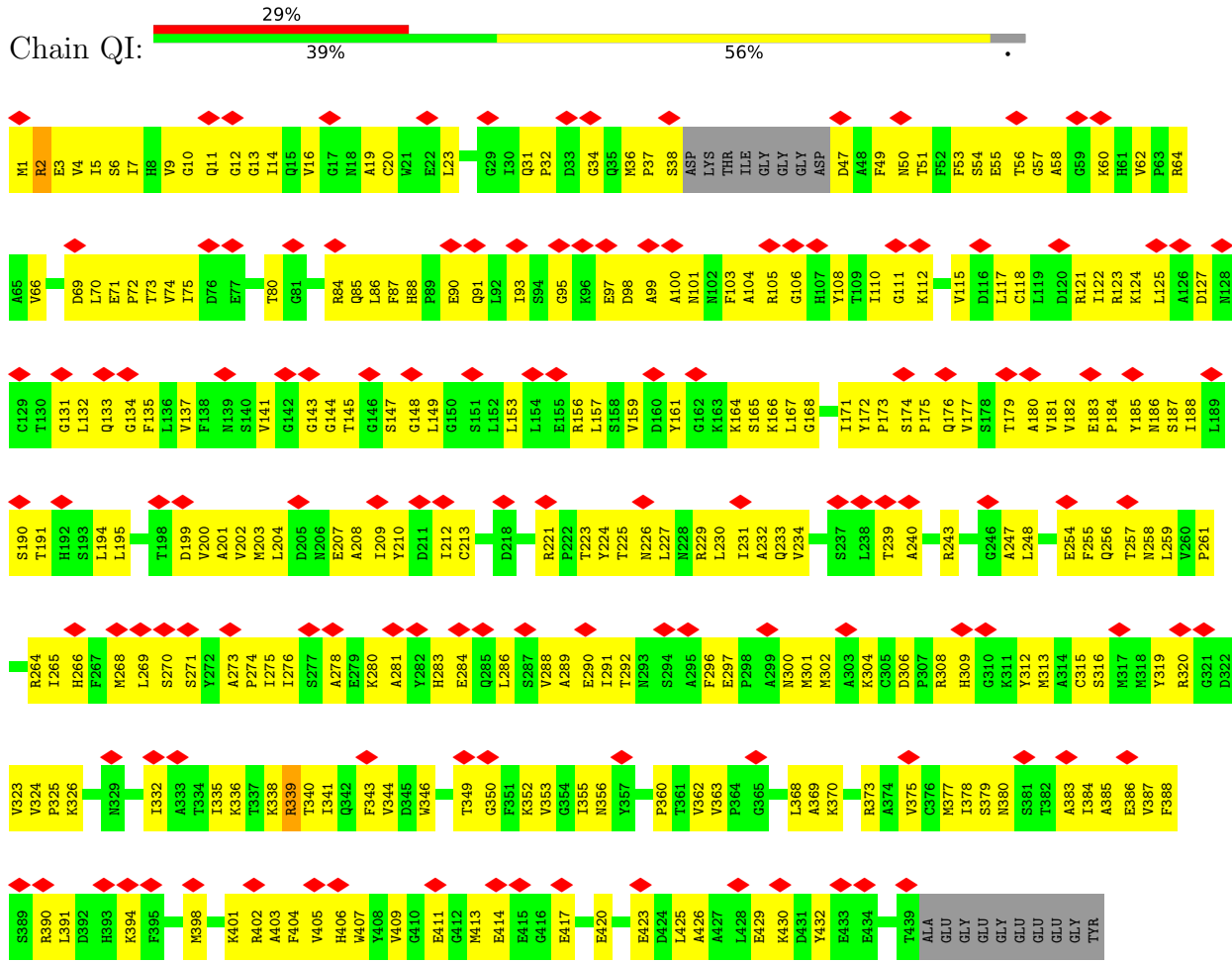


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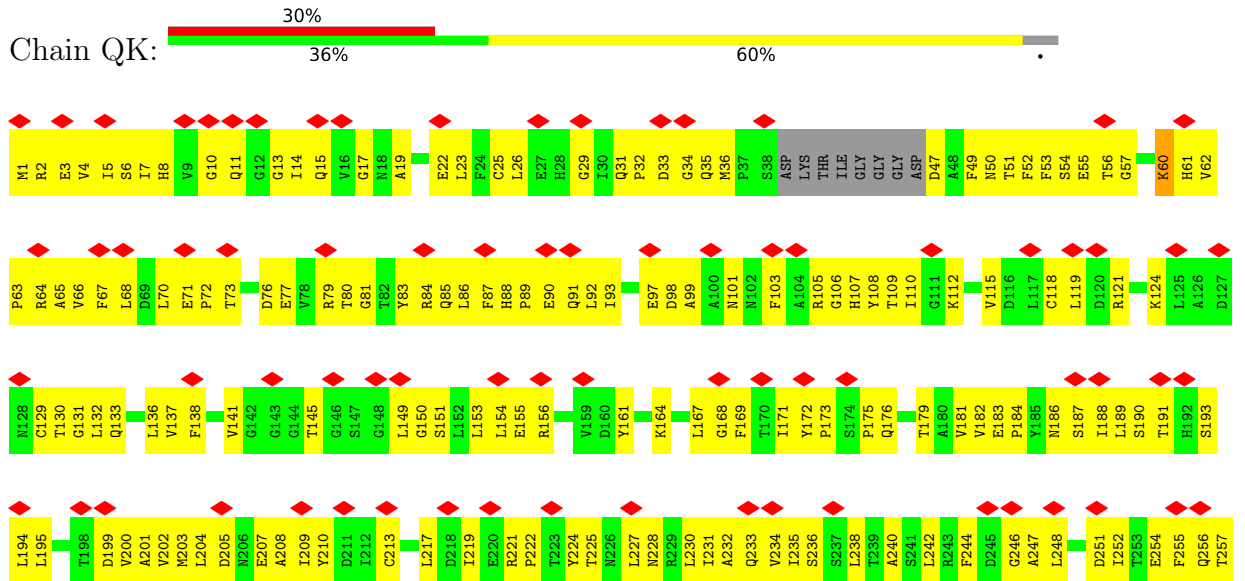


GLY  
TYR

• Molecule 44: Tubulin alpha chain



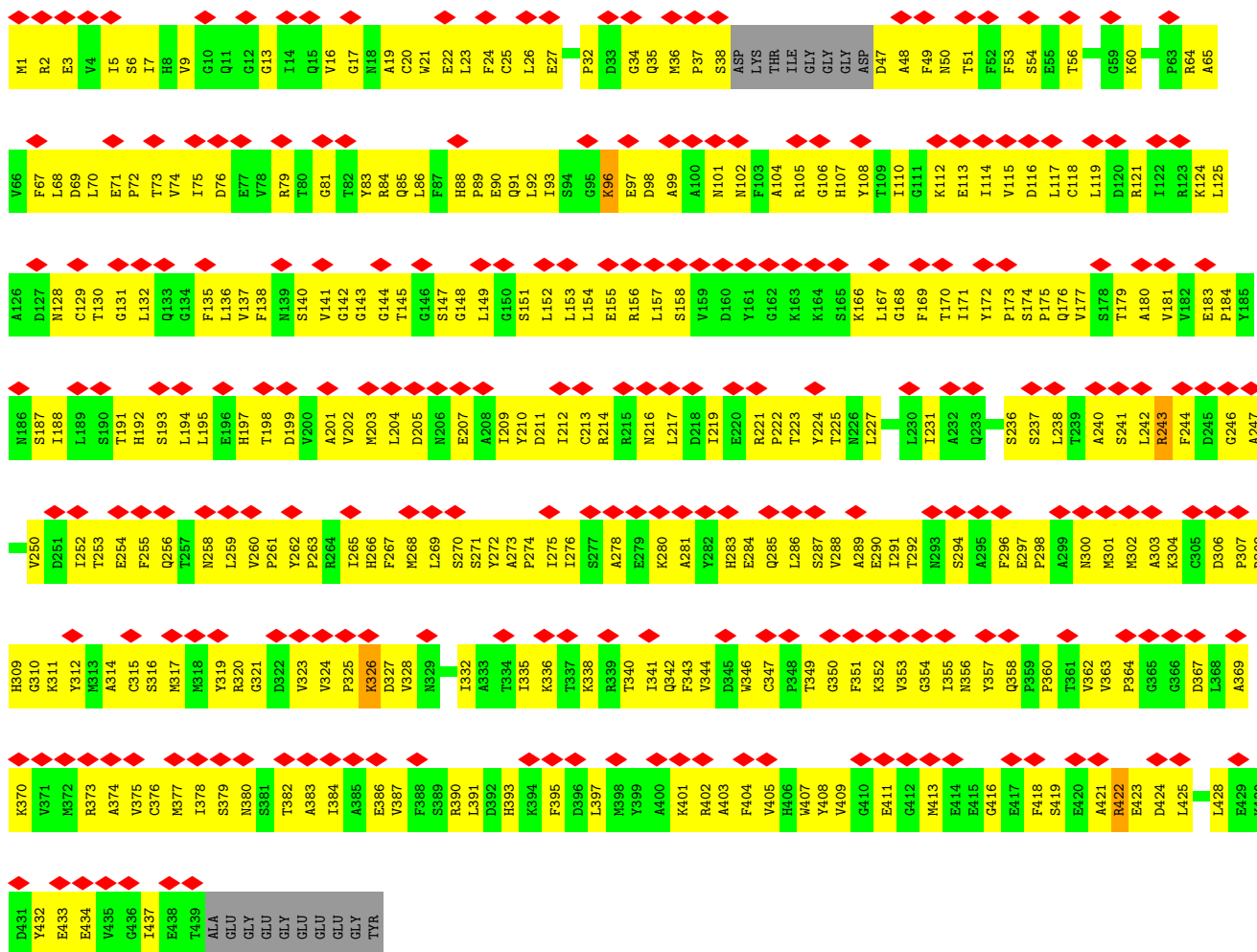
• Molecule 44: Tubulin alpha chain



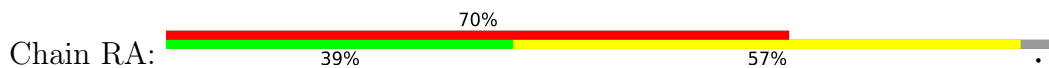




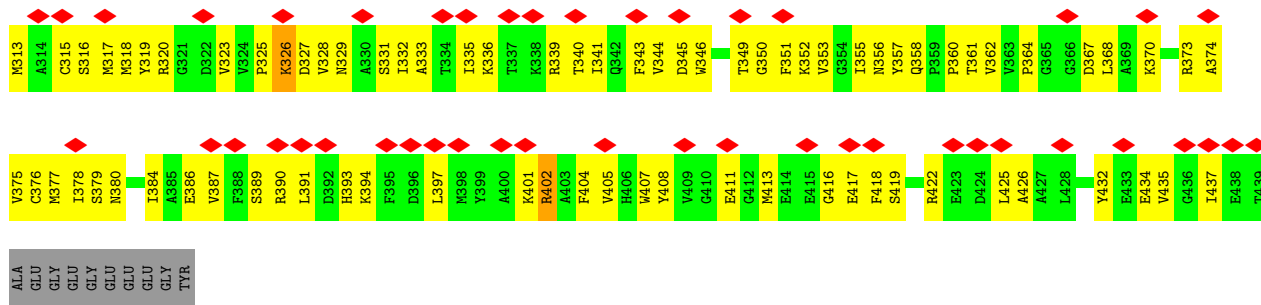
• Molecule 44: Tubulin alpha chain



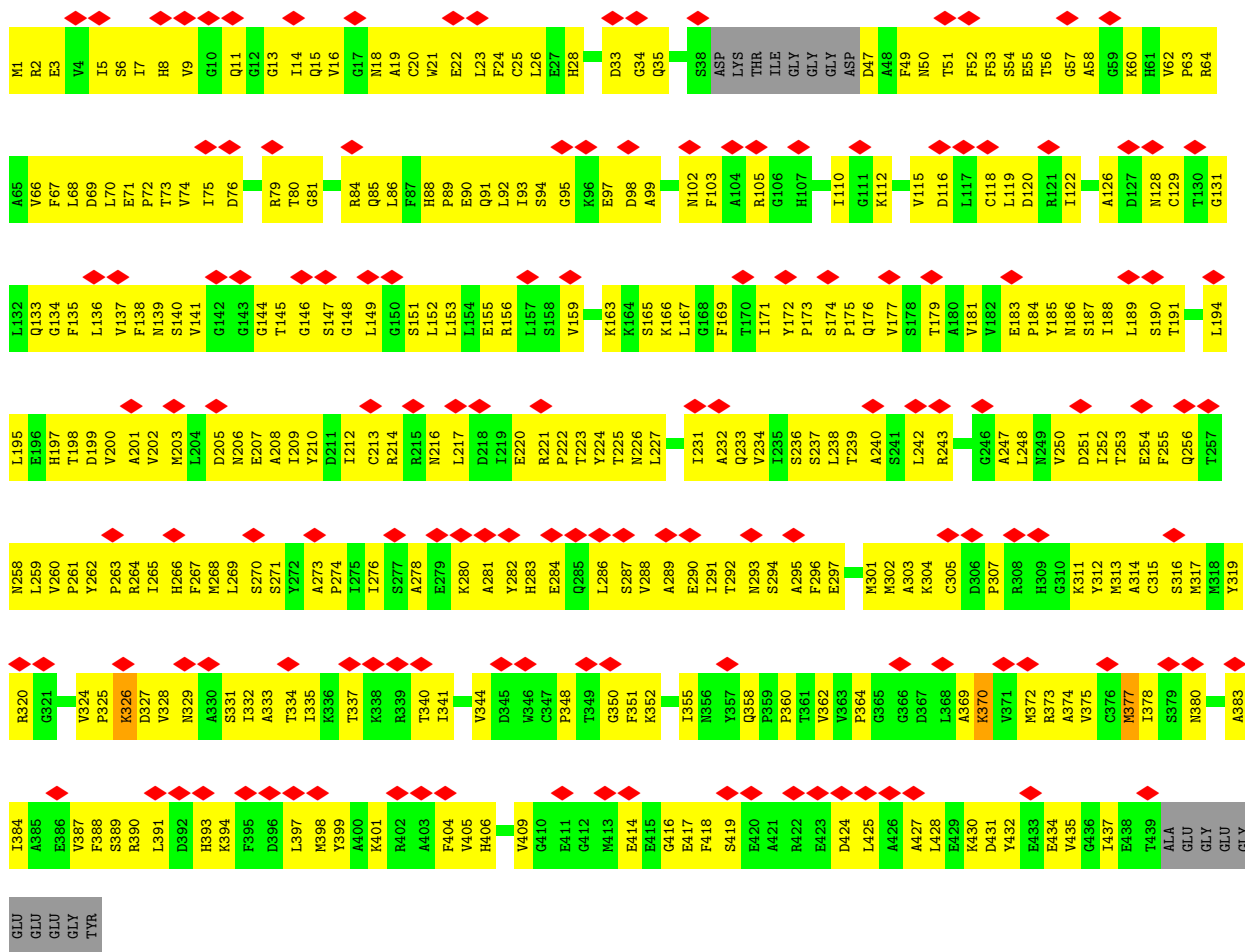
• Molecule 44: Tubulin alpha chain



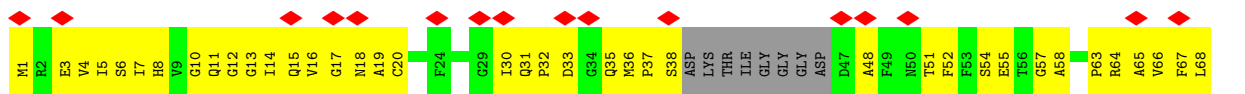


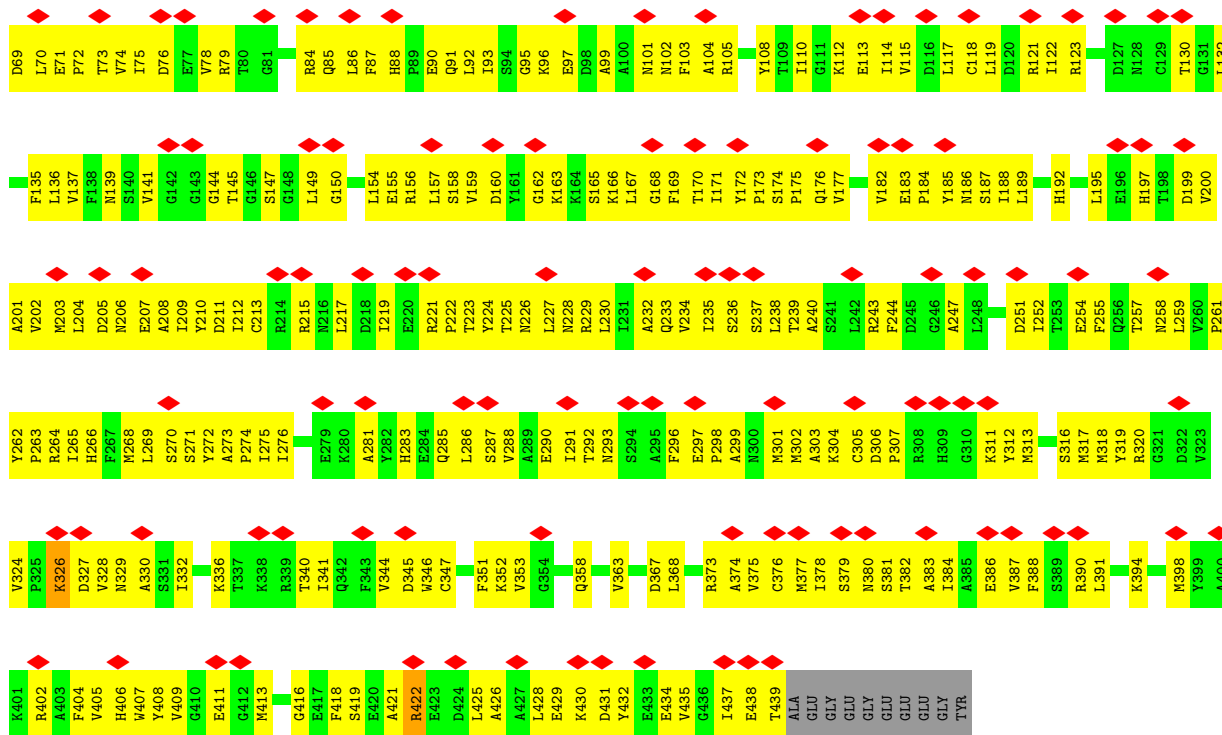


• Molecule 44: Tubulin alpha chain

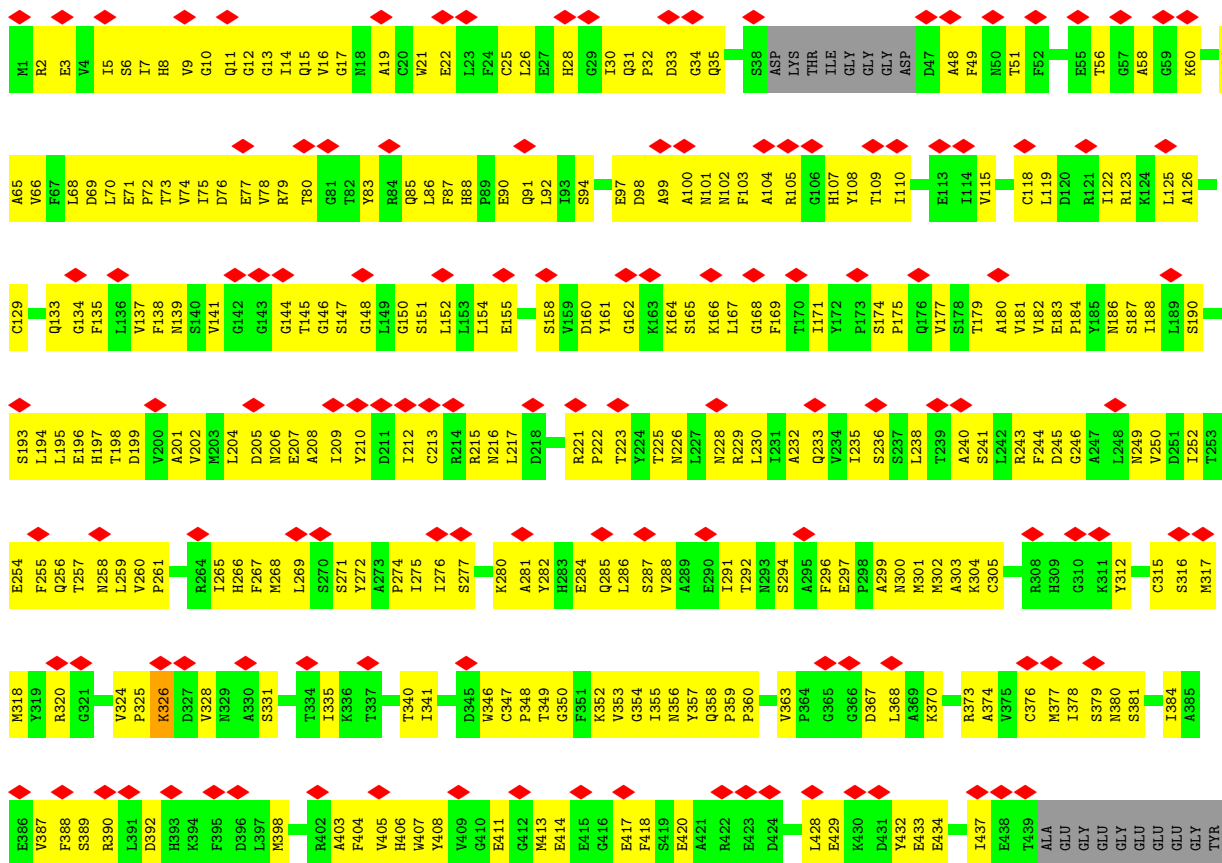


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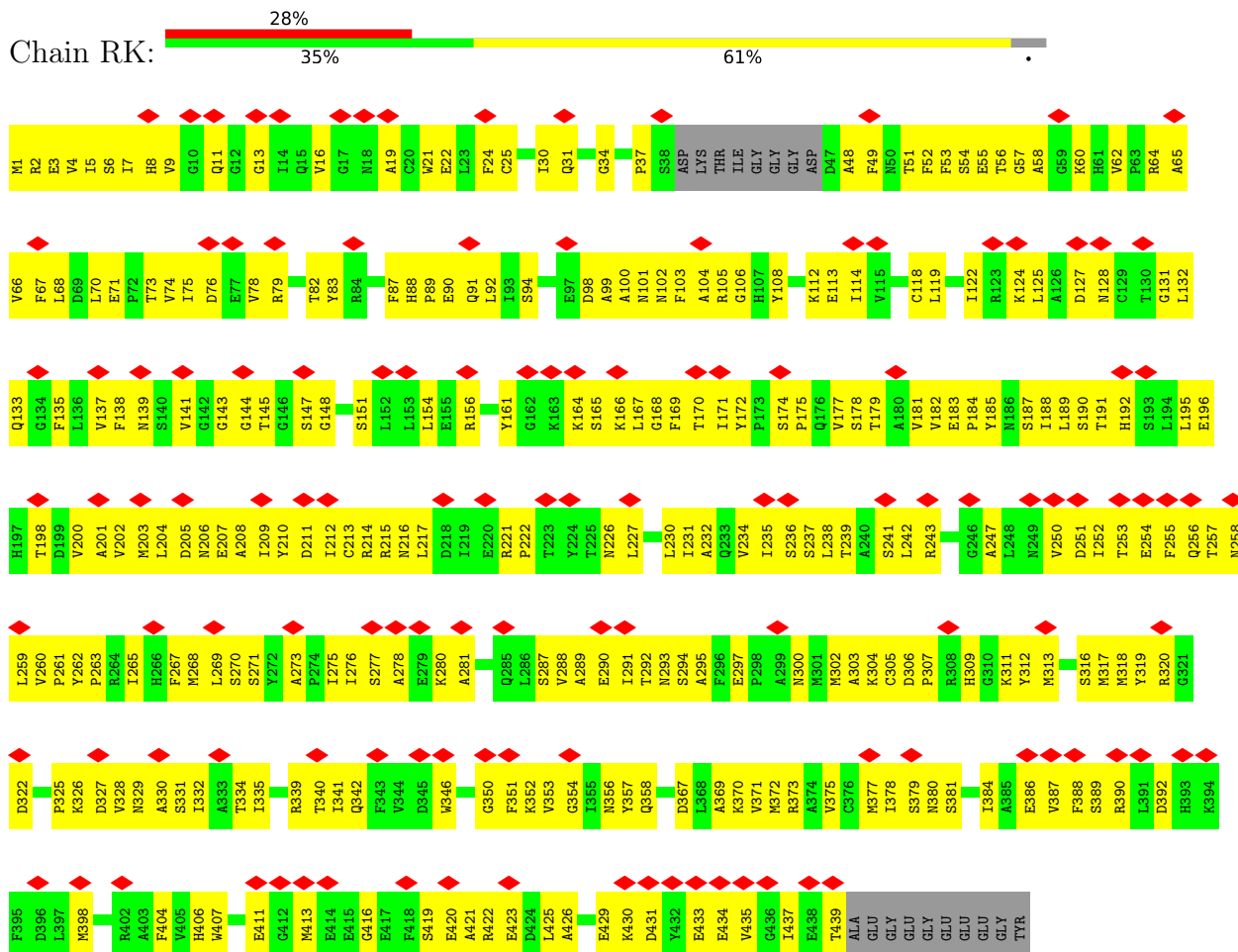




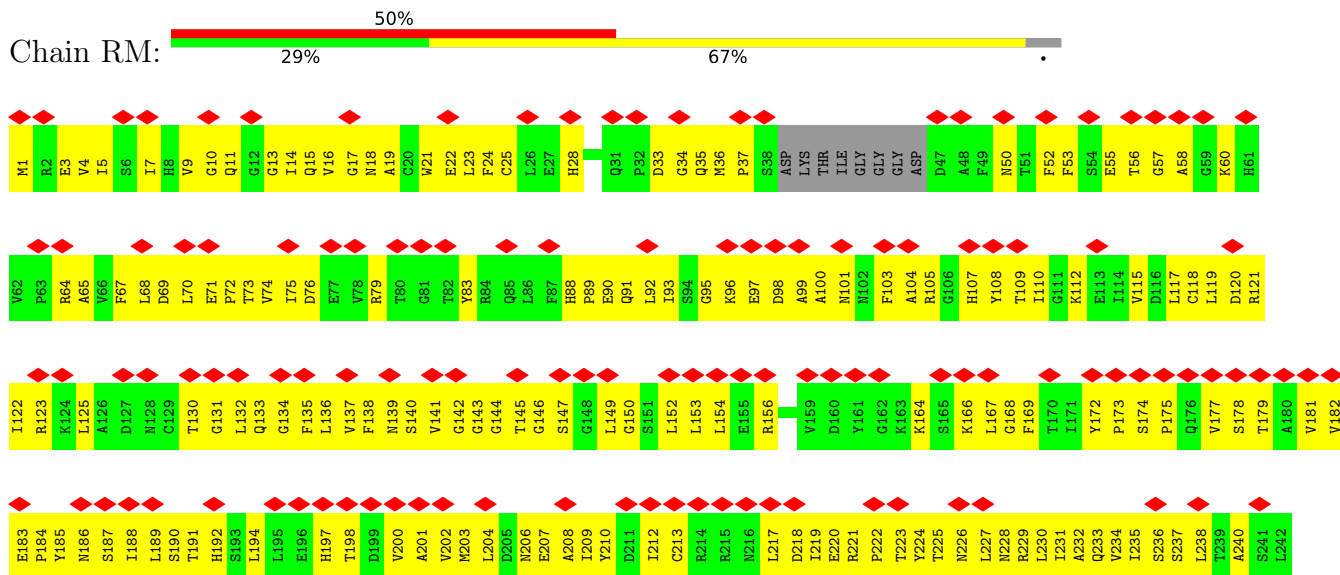
• Molecule 44: Tubulin alpha chain

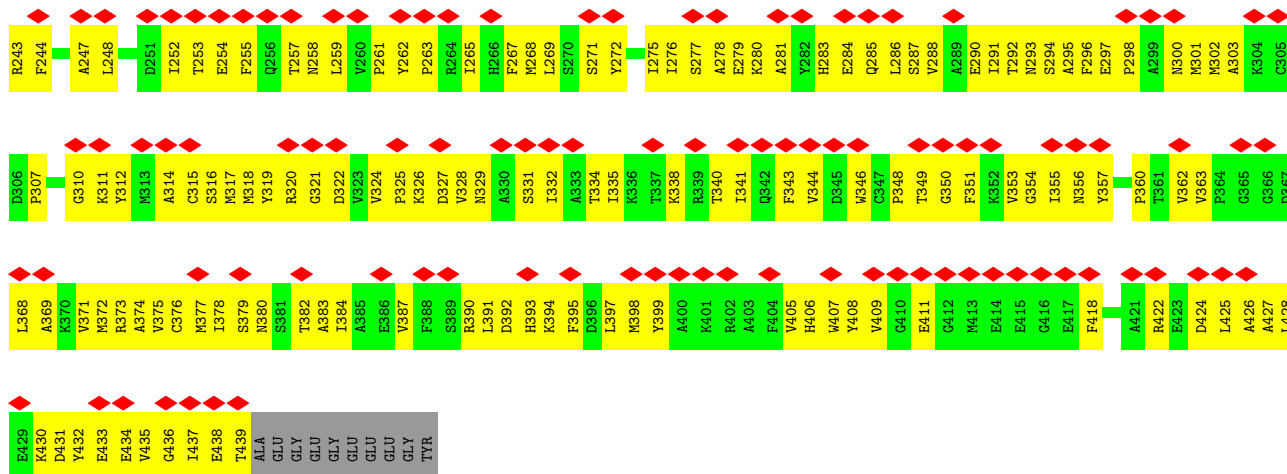


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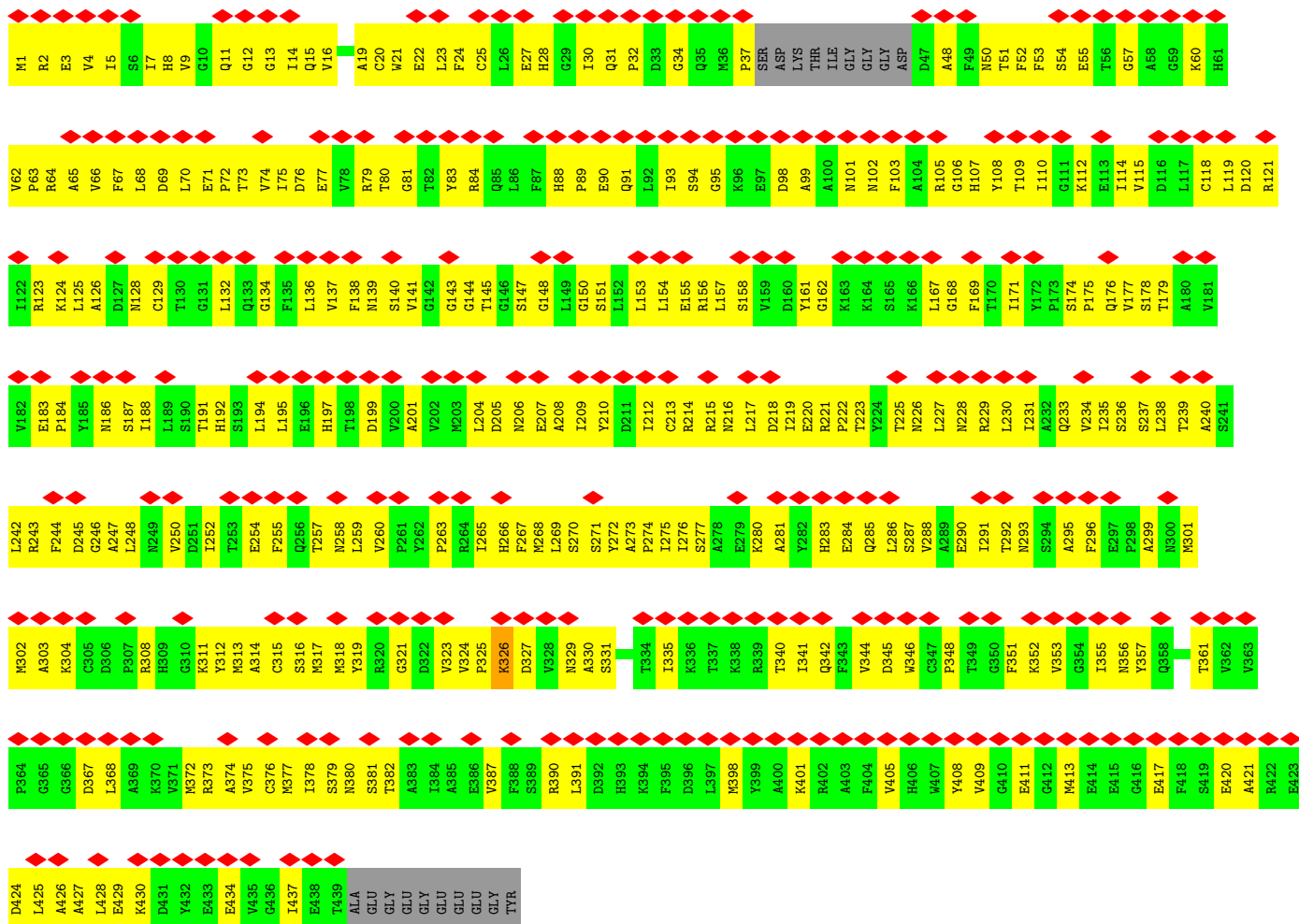


• Molecule 44: Tubulin alpha chain

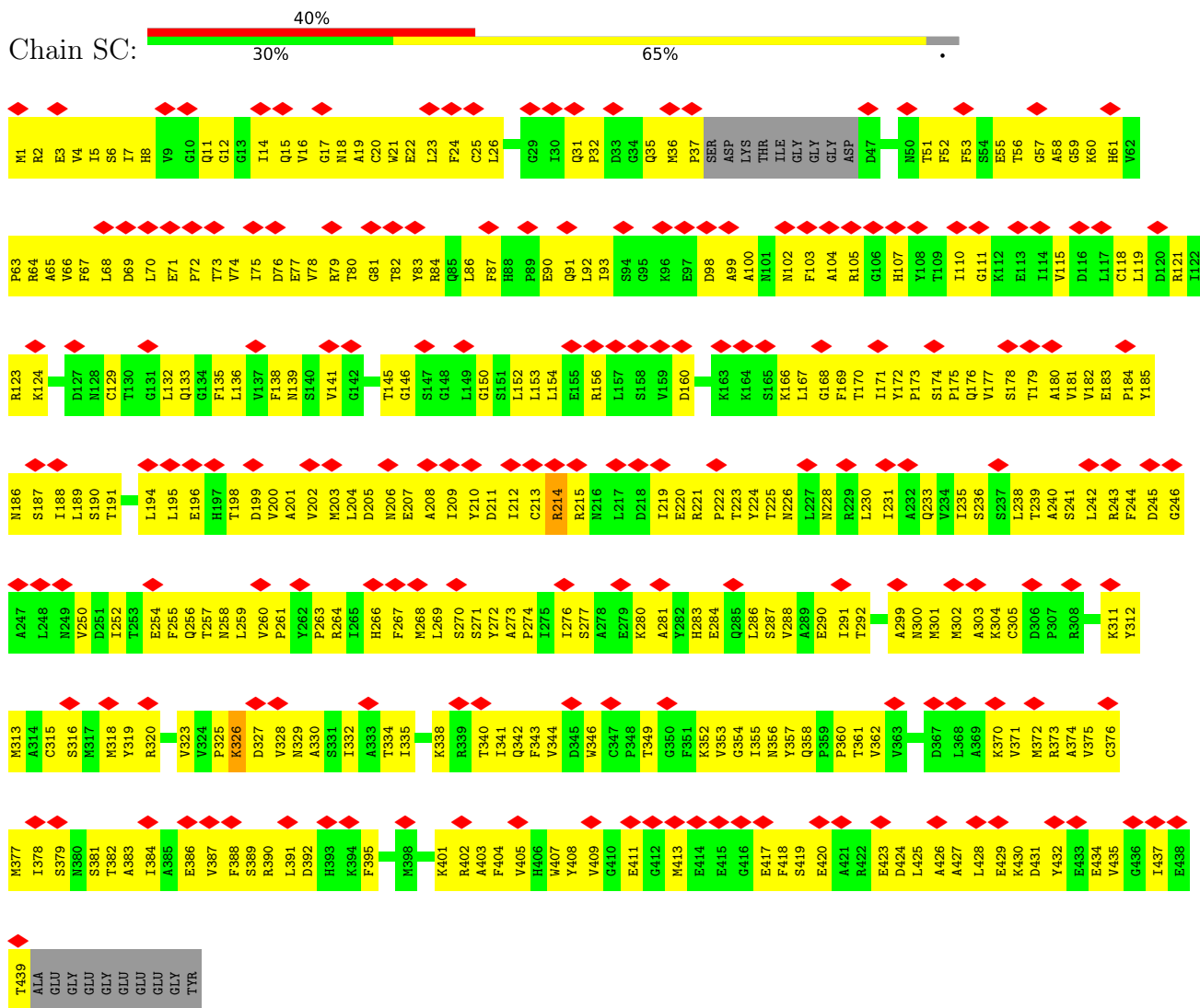




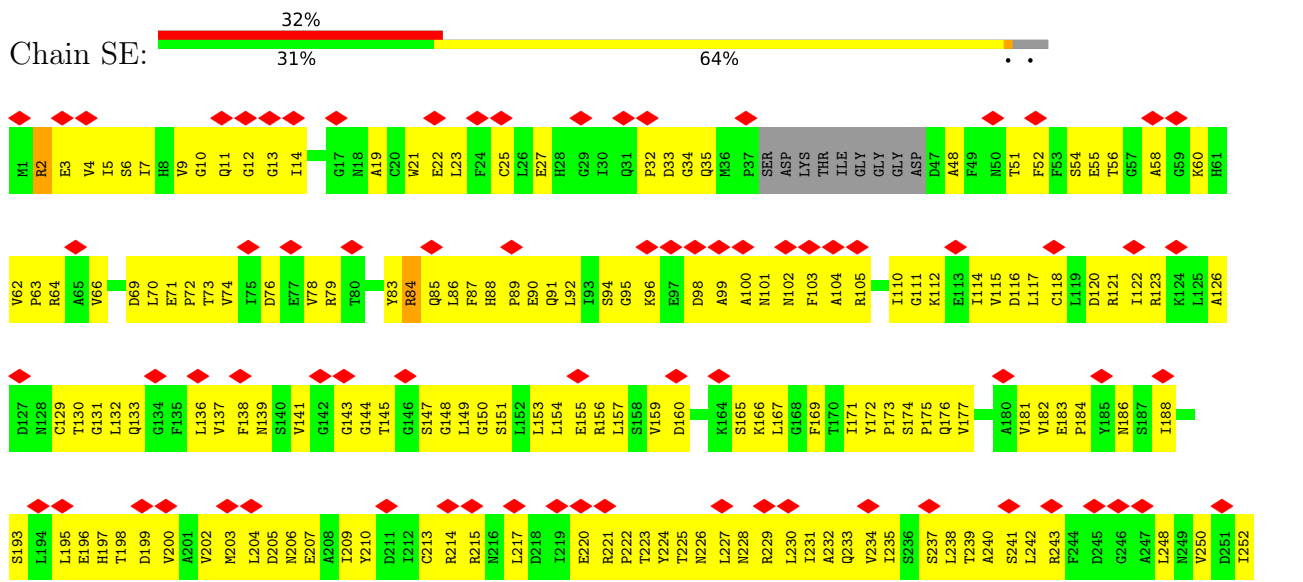
• Molecule 44: Tubulin alpha chain



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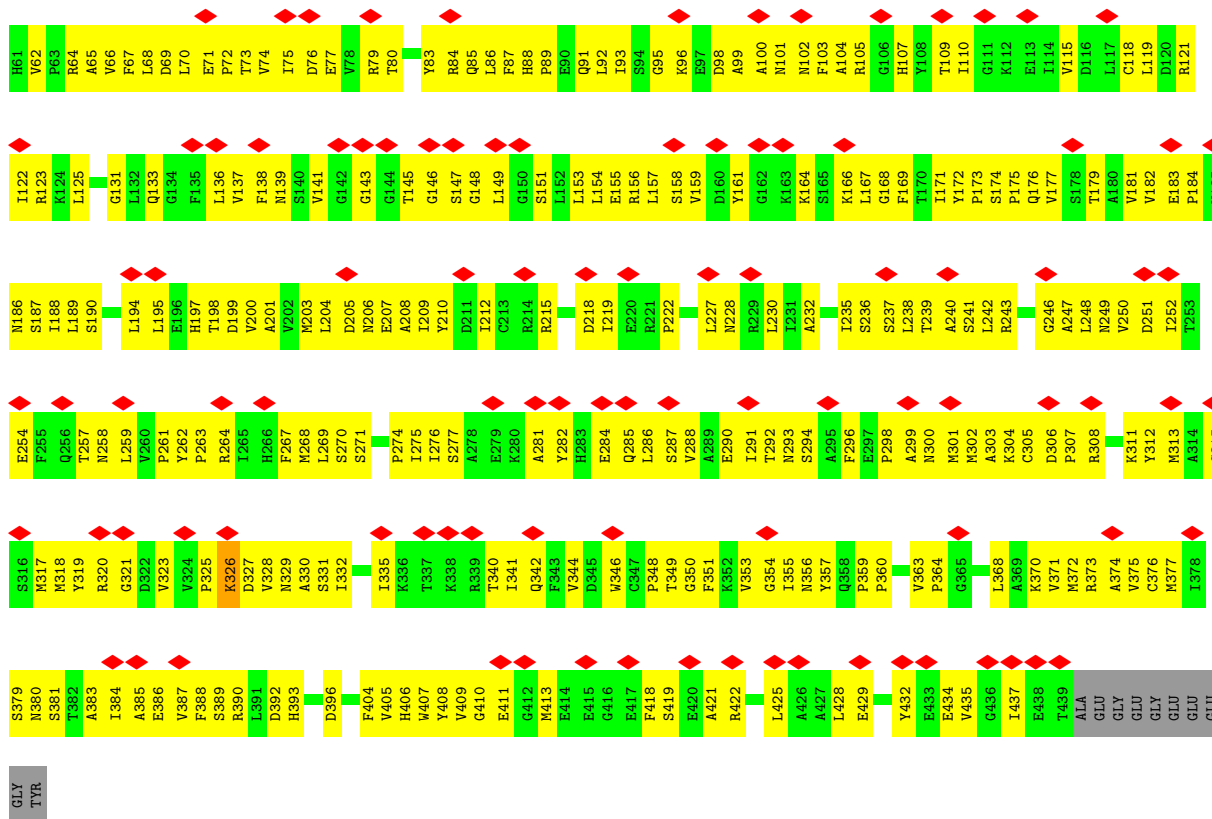


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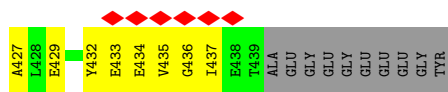




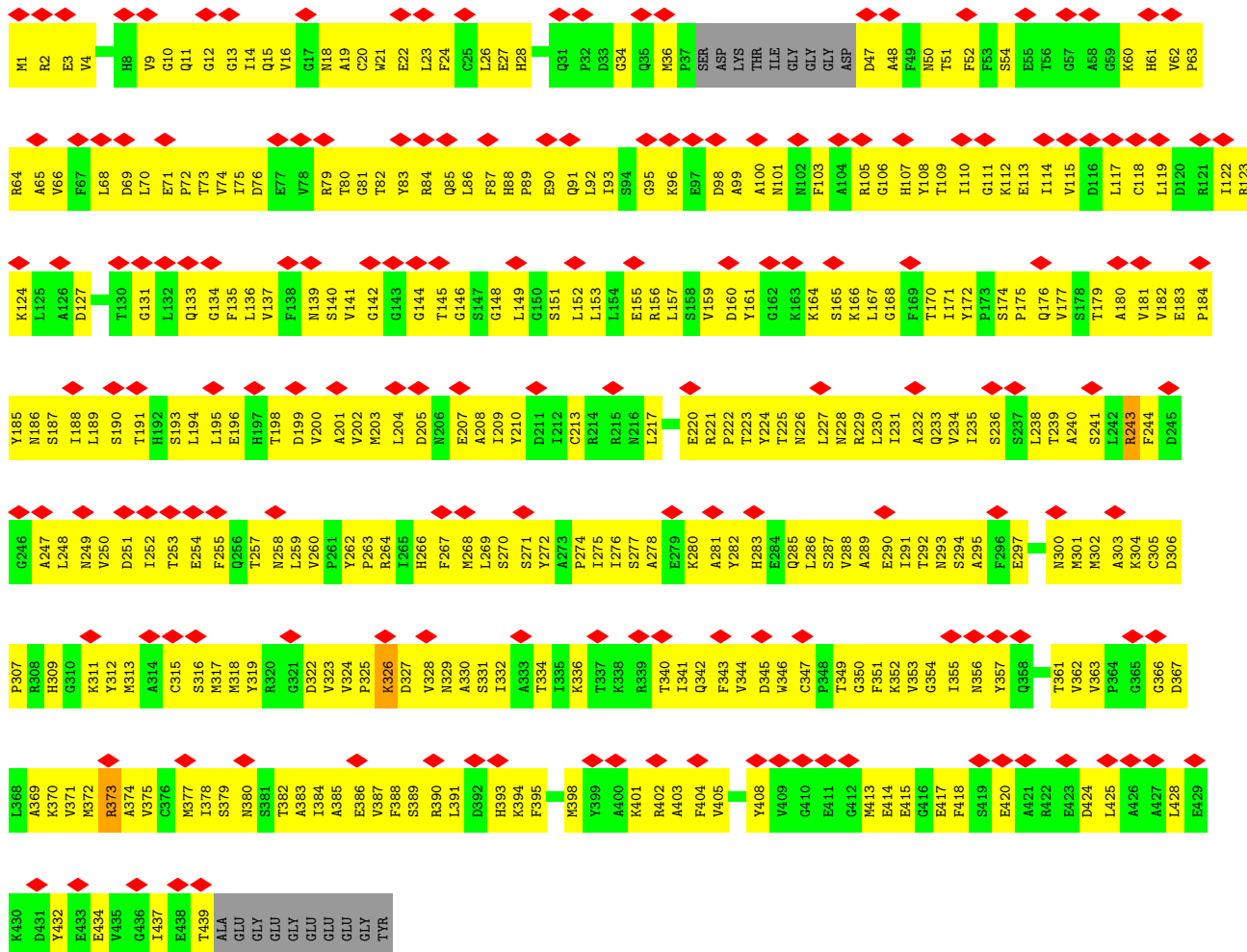


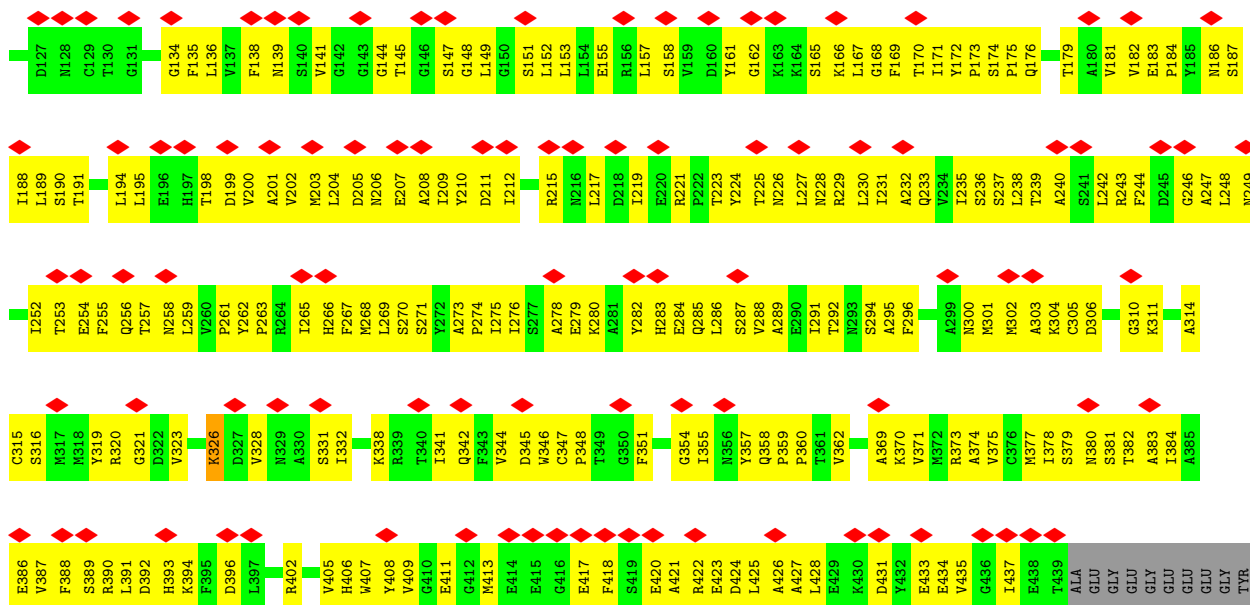




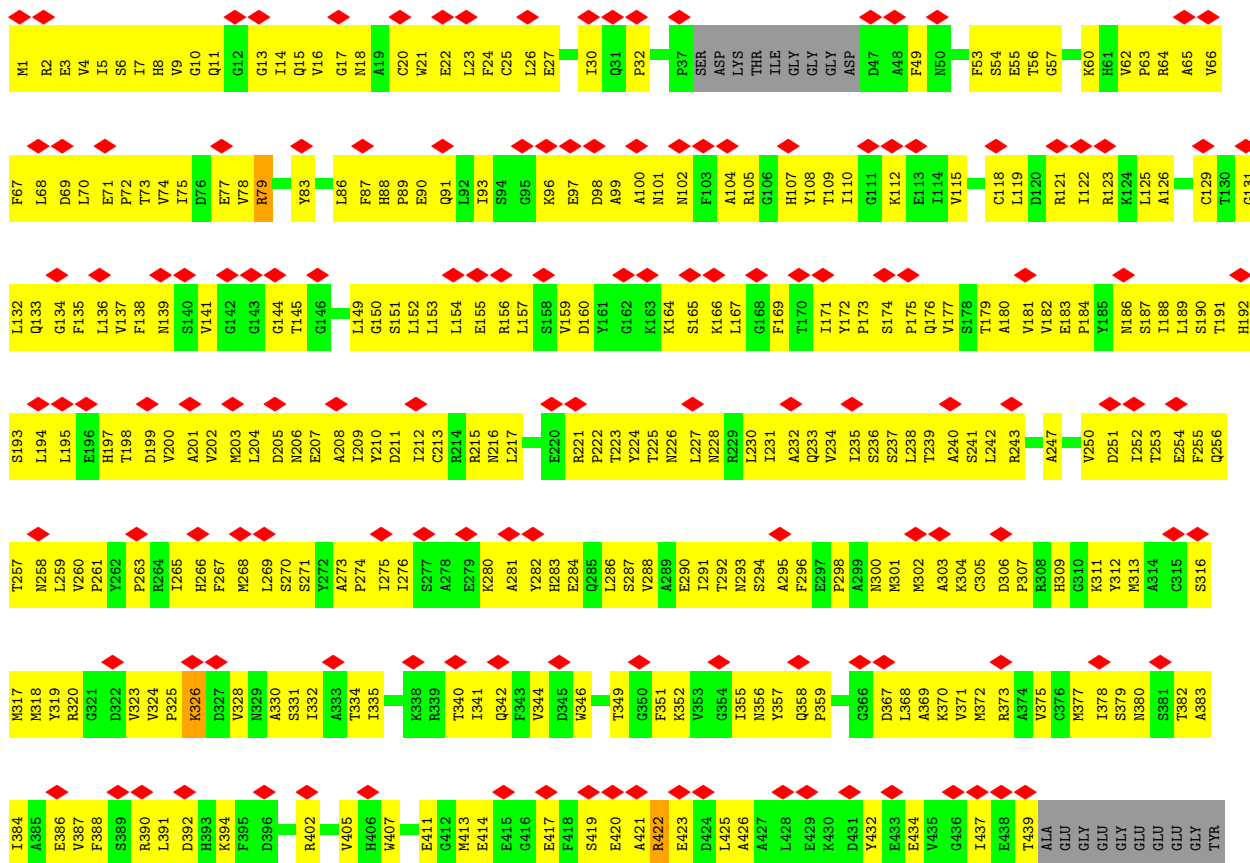


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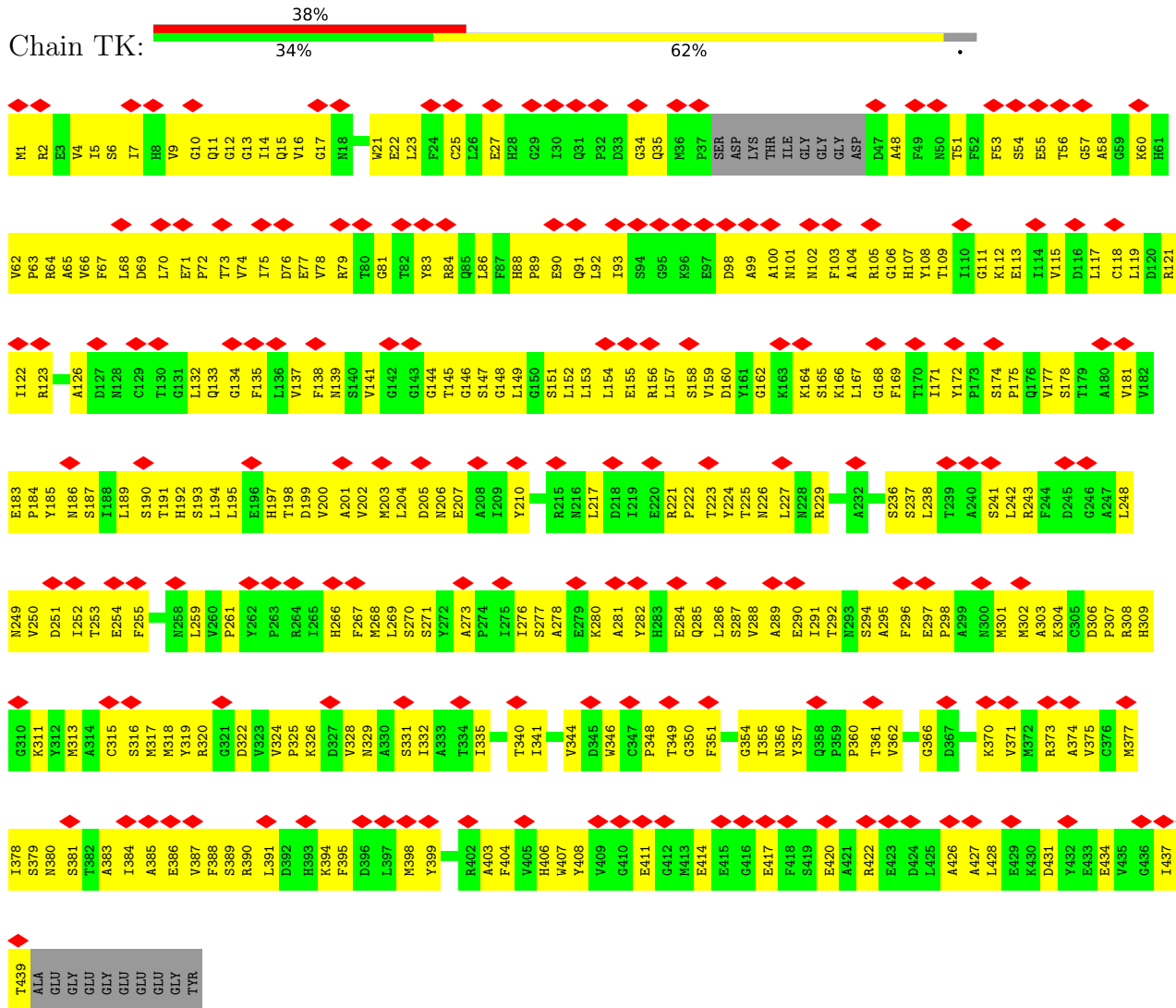




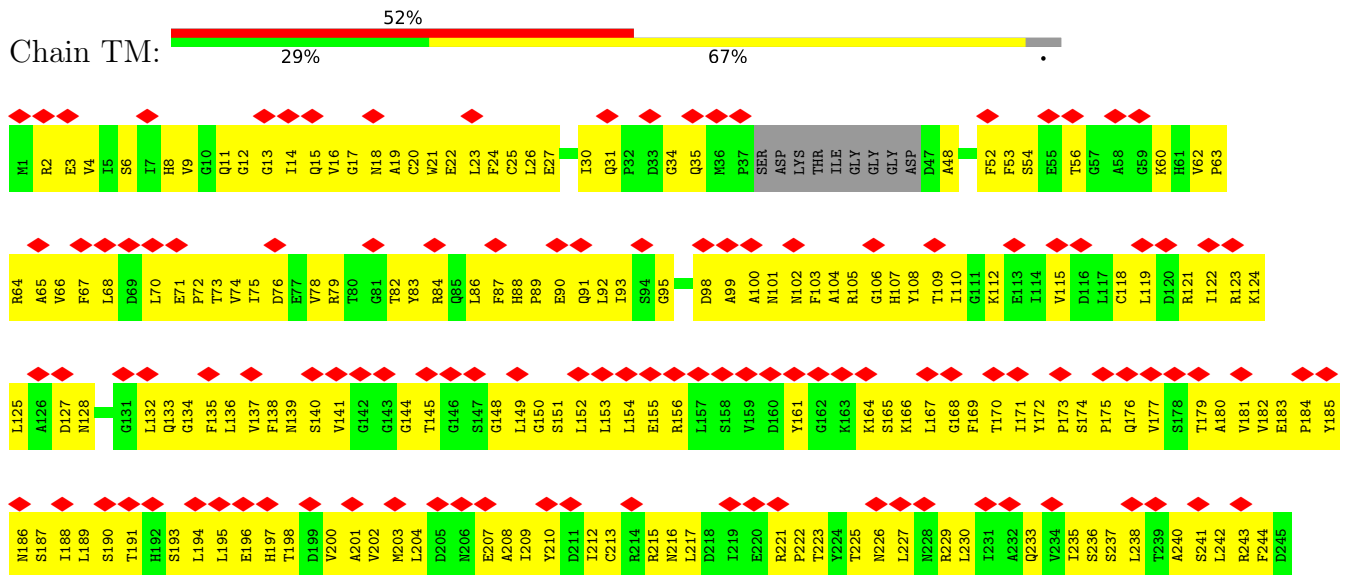
• Molecule 44: Tubulin alpha chain

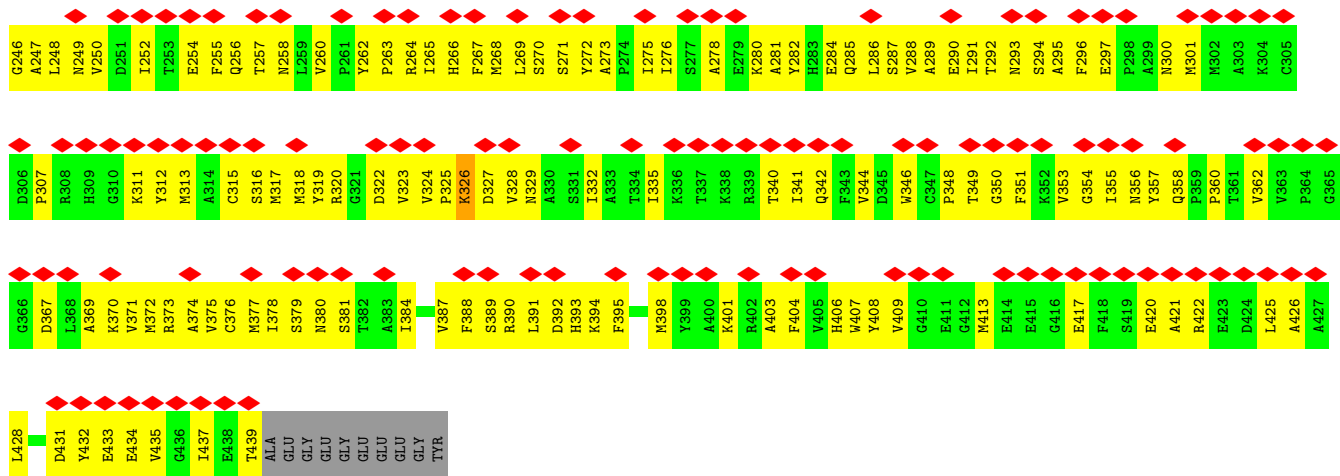


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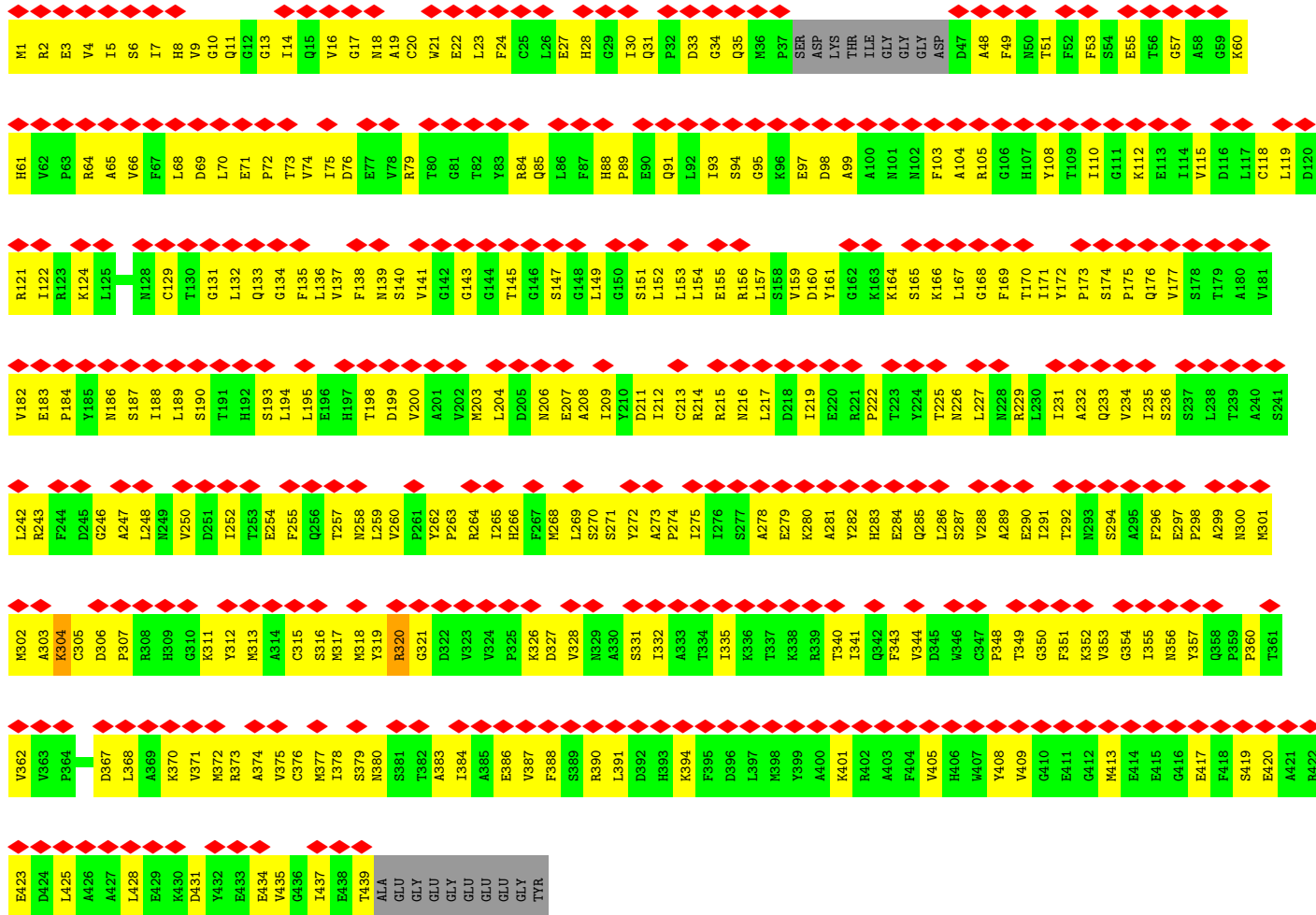
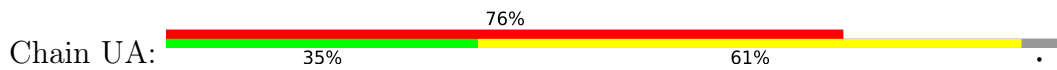


• Molecule 44: Tubulin alpha chain



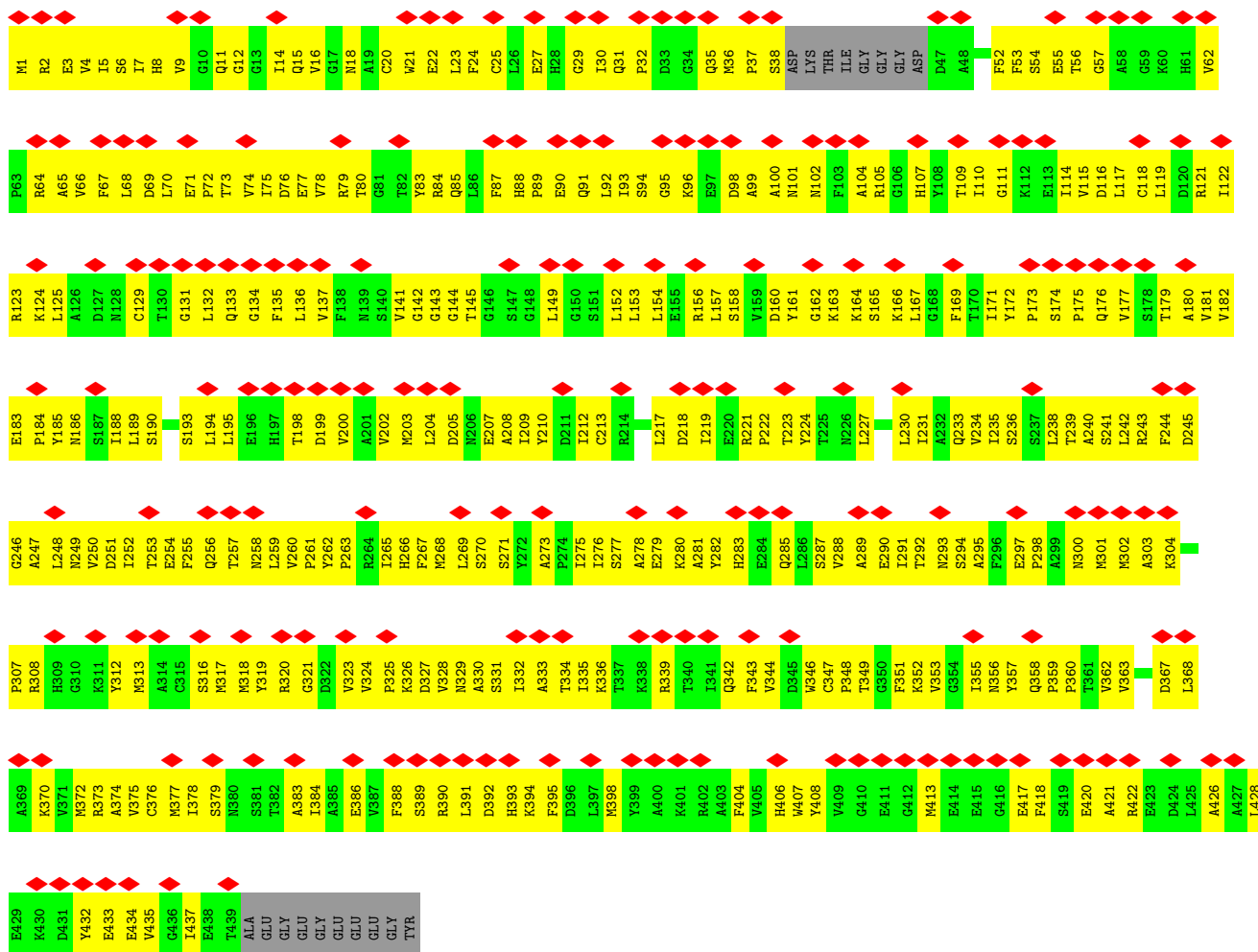


● Molecule 44: Tubulin alpha chain

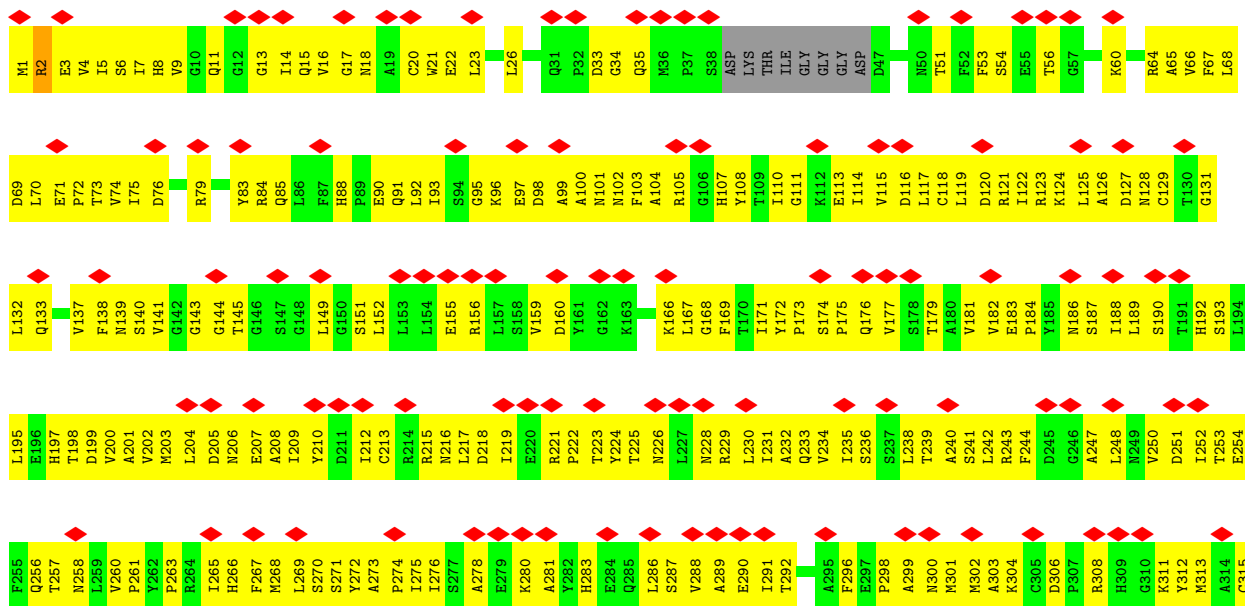


● Molecule 44: Tubulin alpha chain



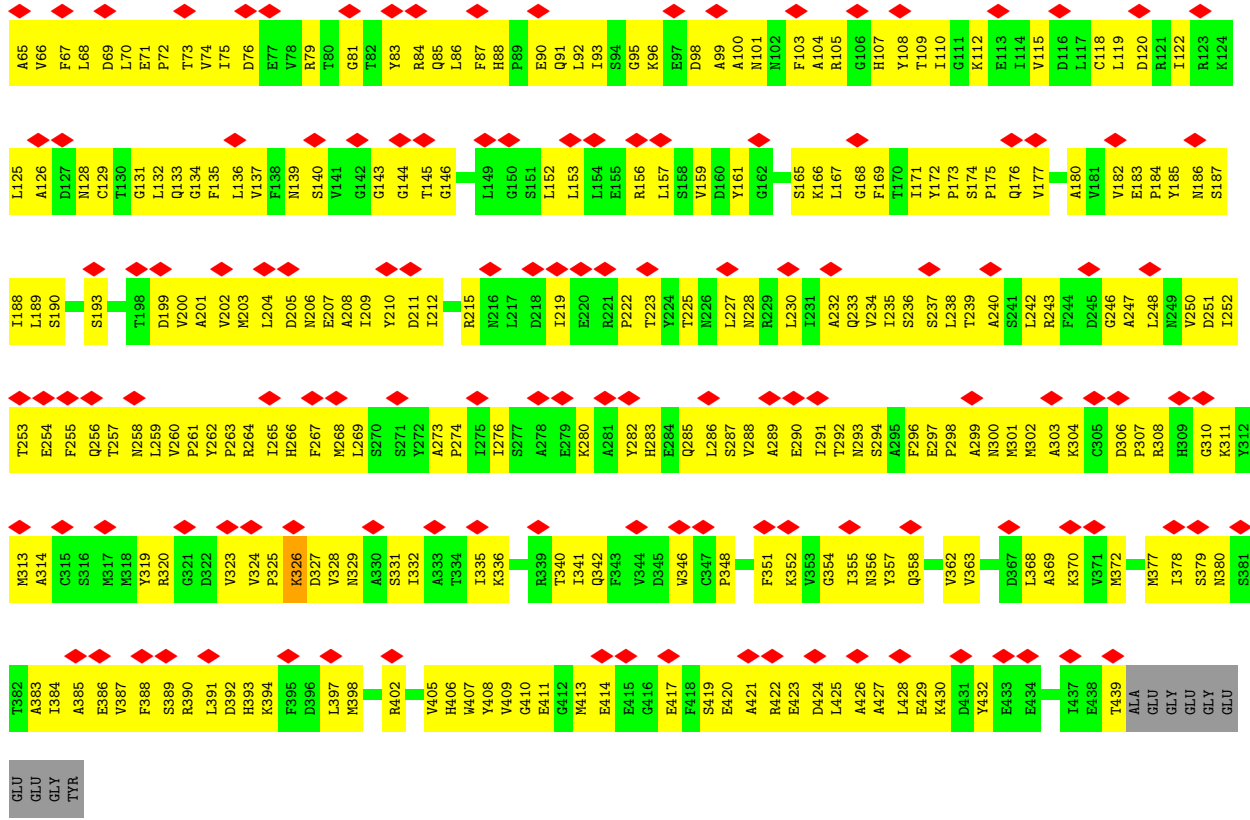


• Molecule 44: Tubulin alpha chain

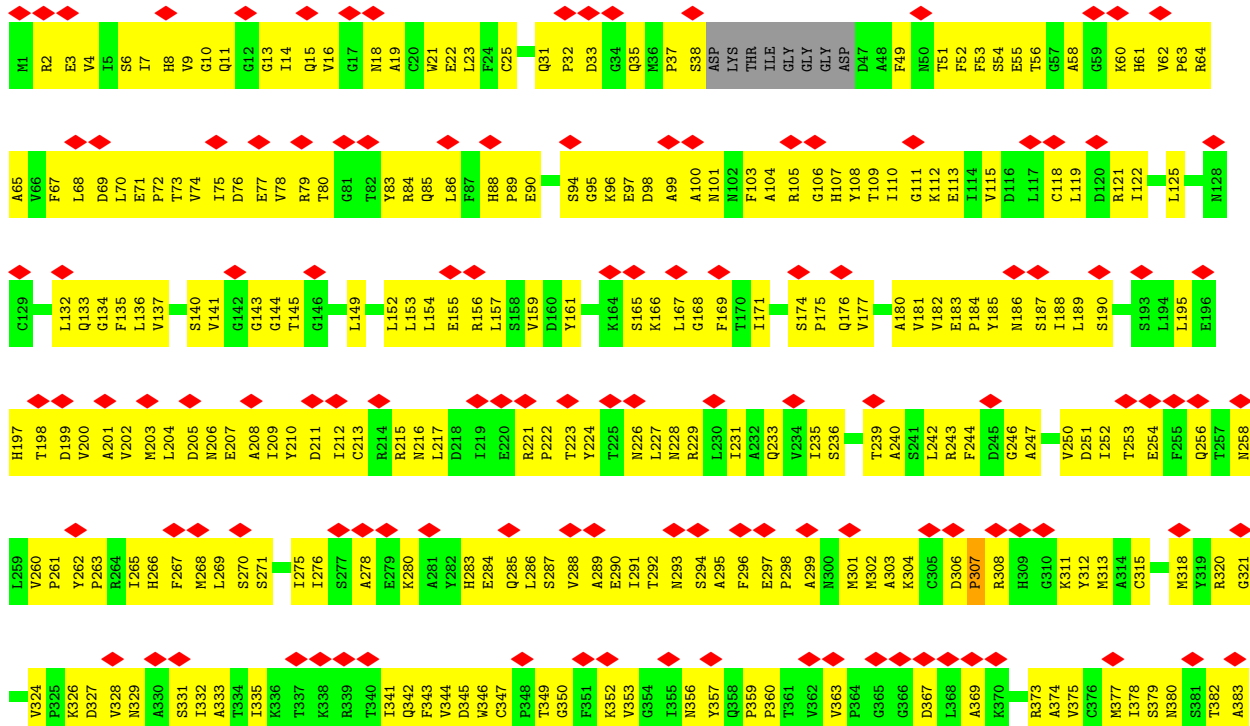


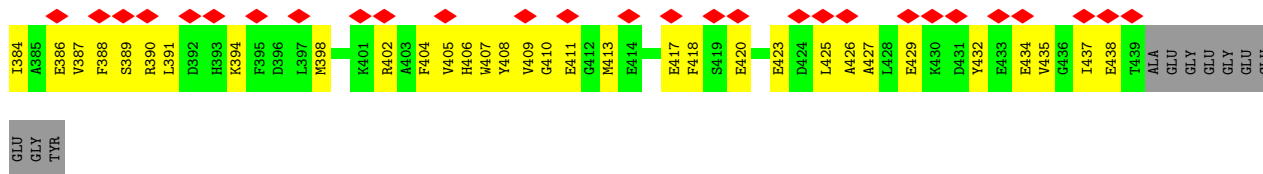




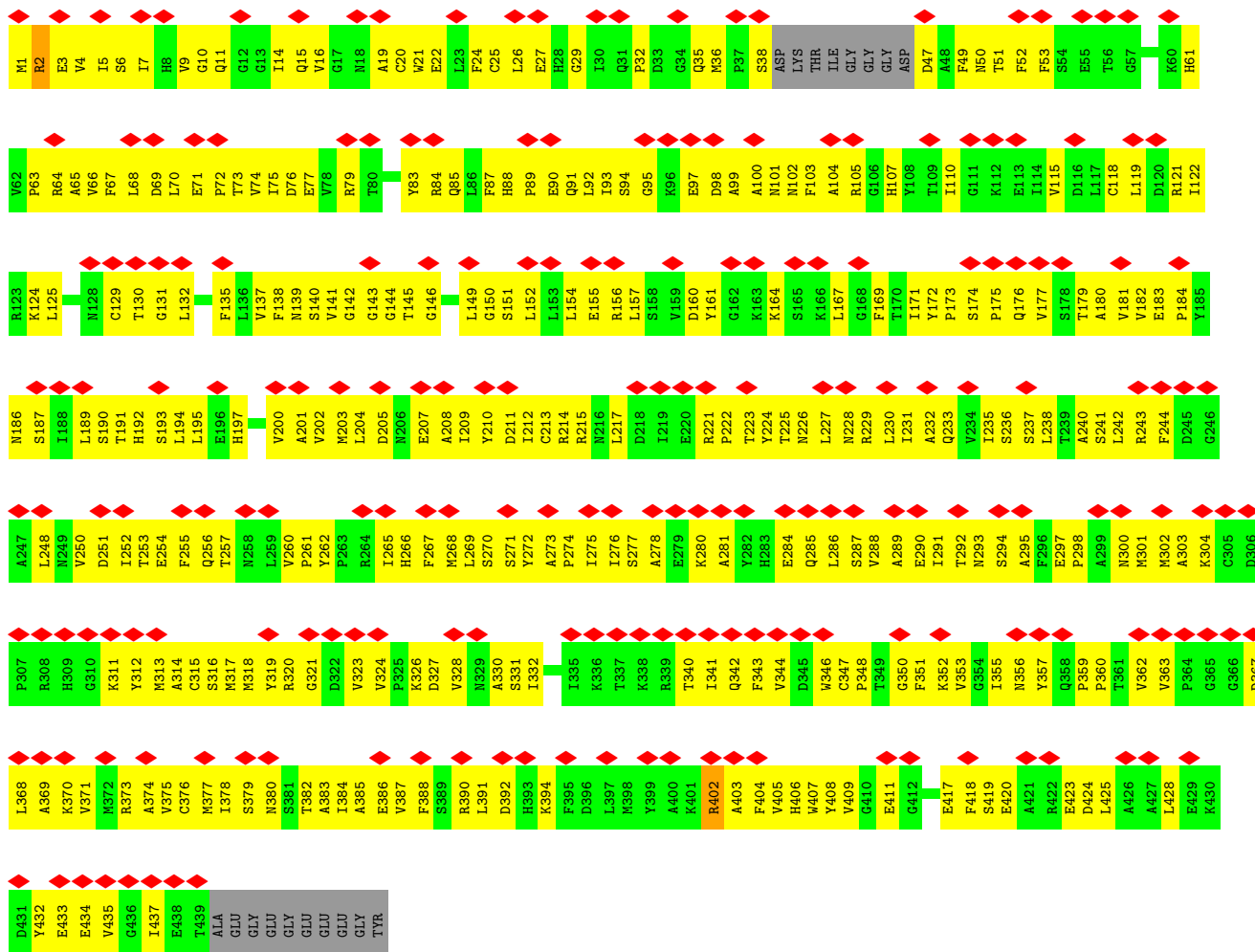


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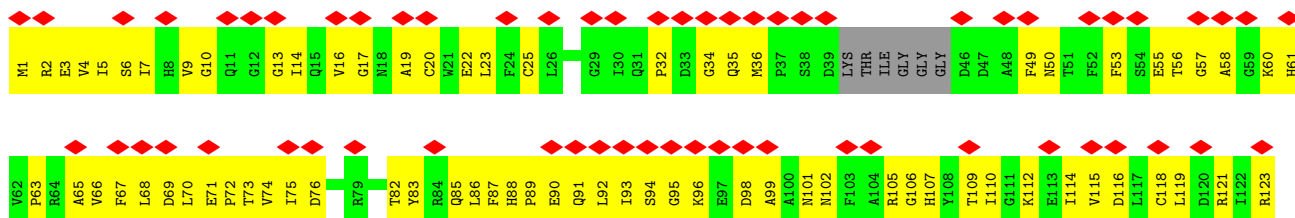




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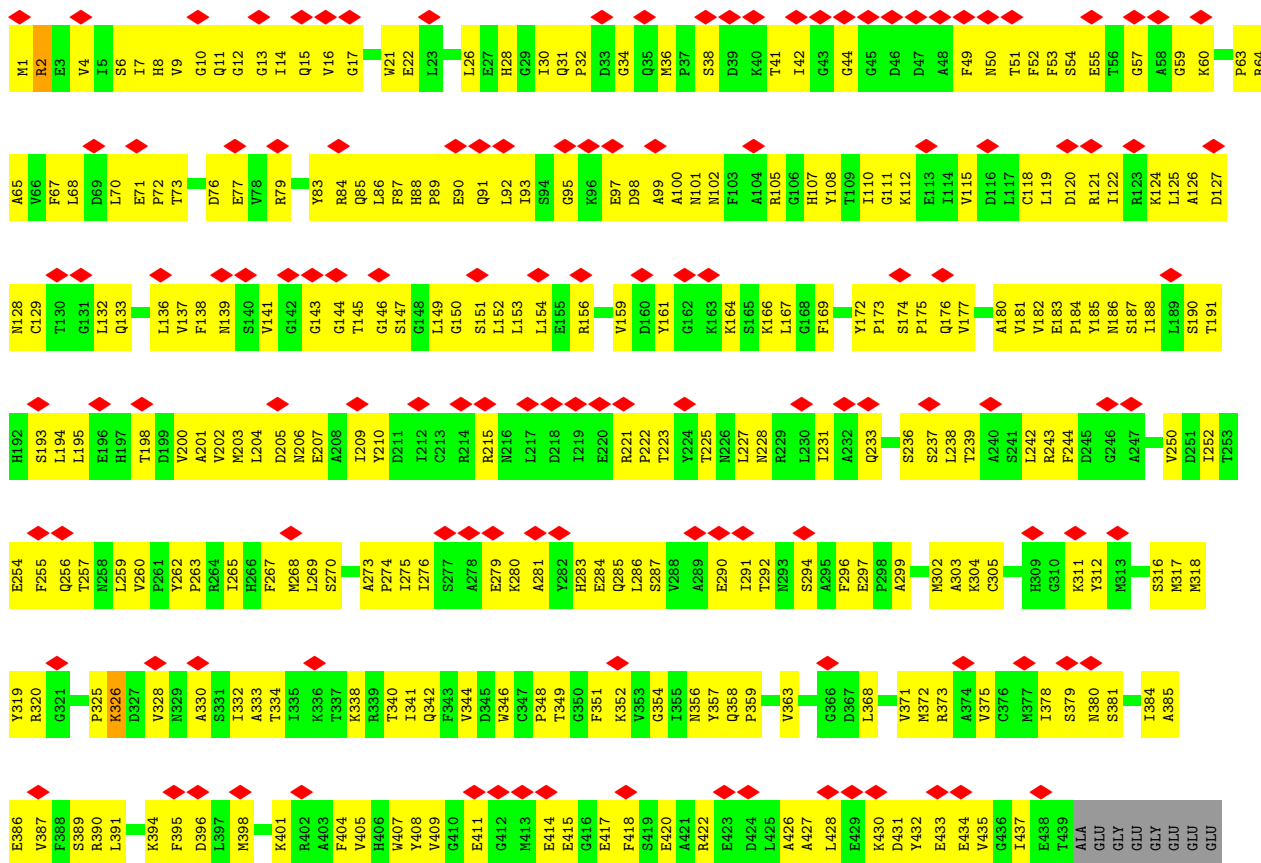


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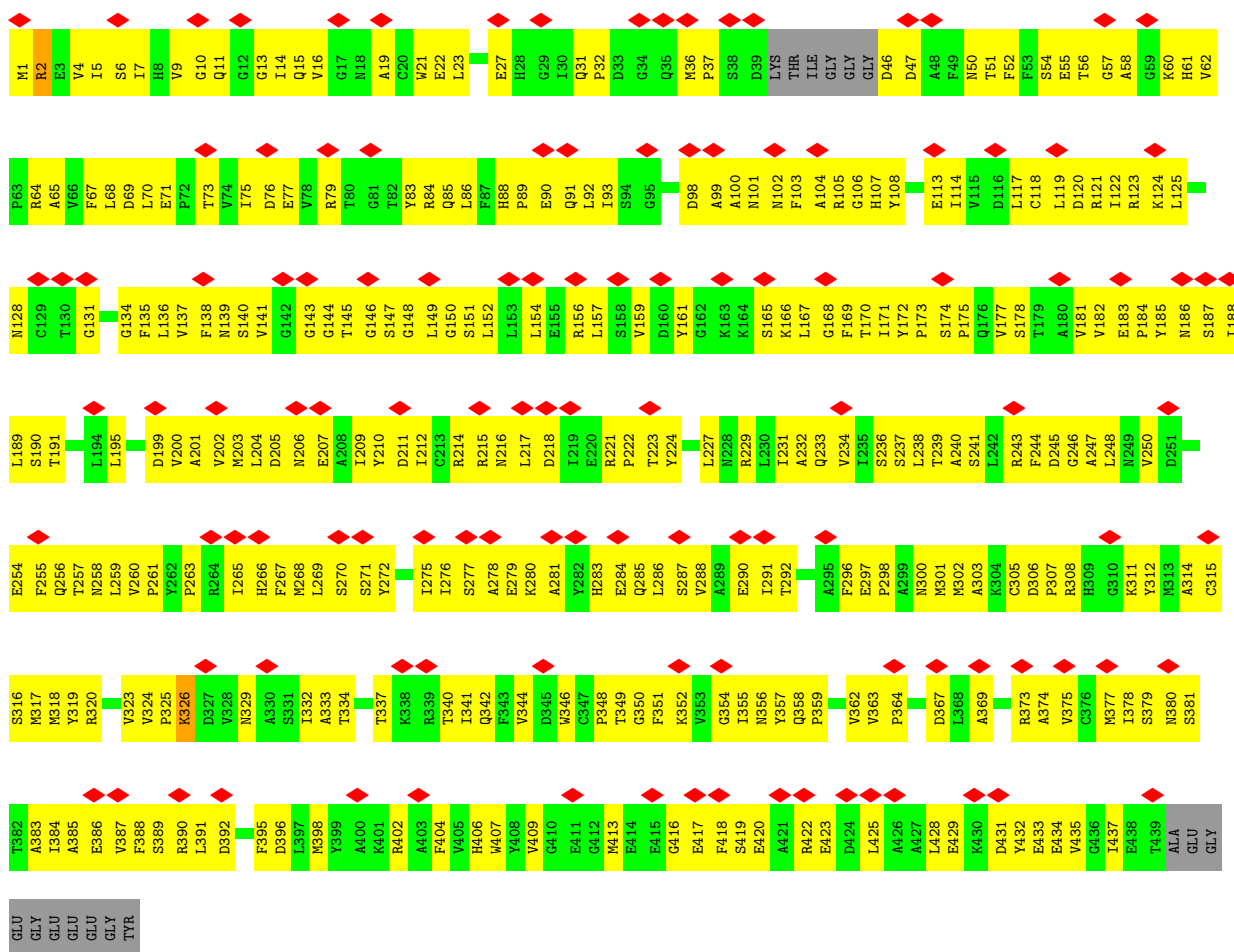
• Molecule 44: Tubulin alpha chain





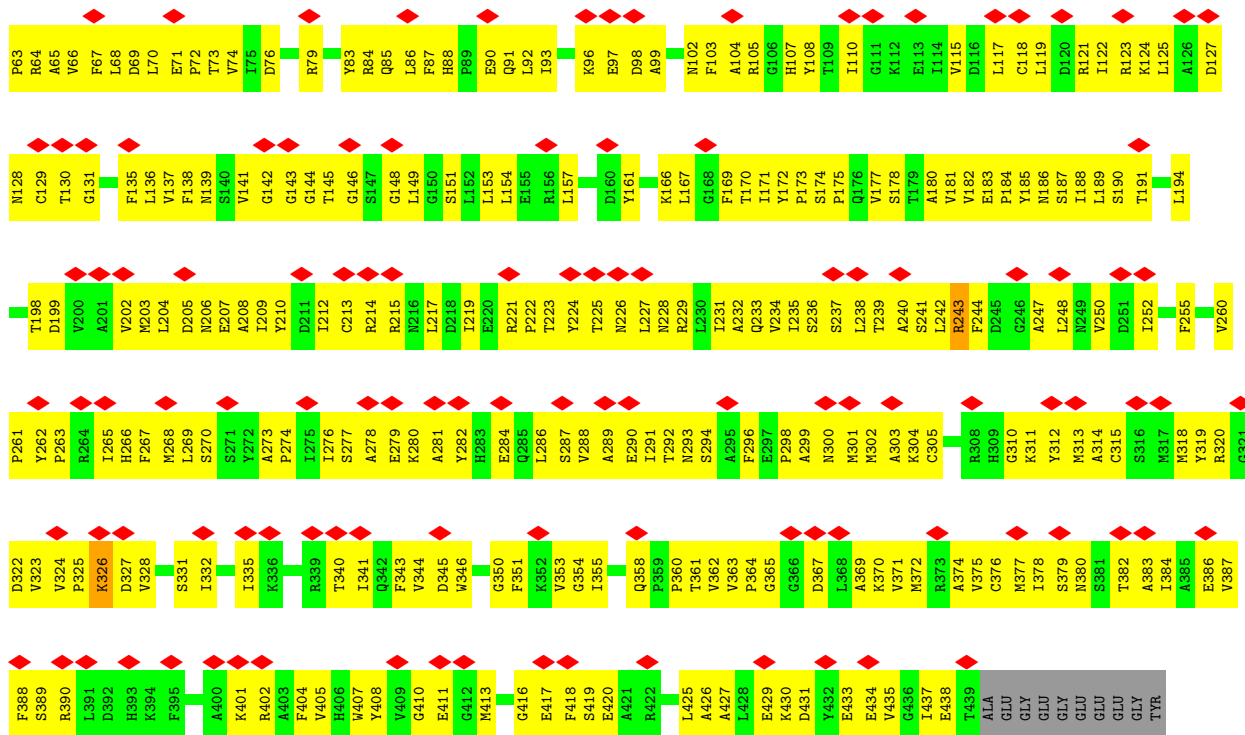


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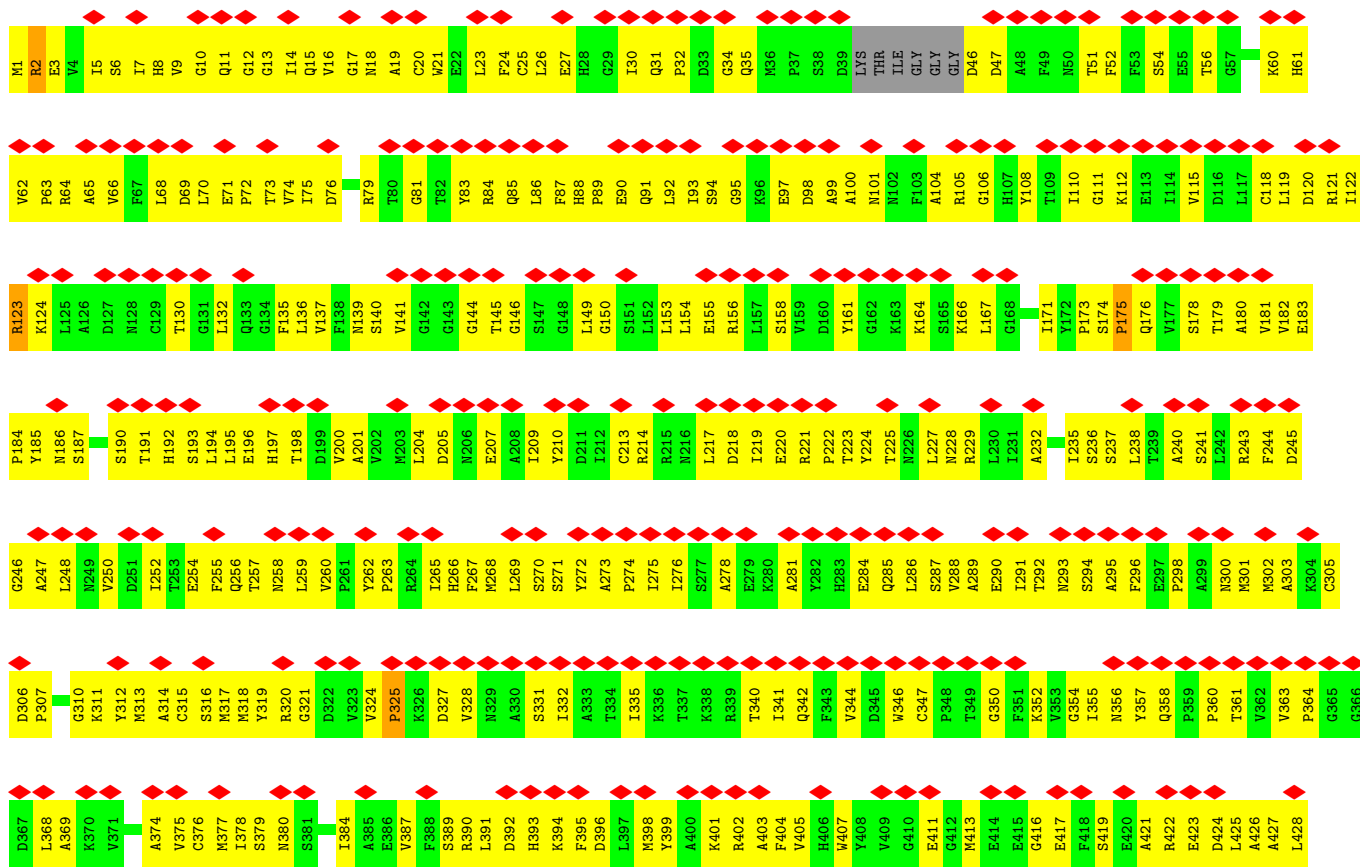


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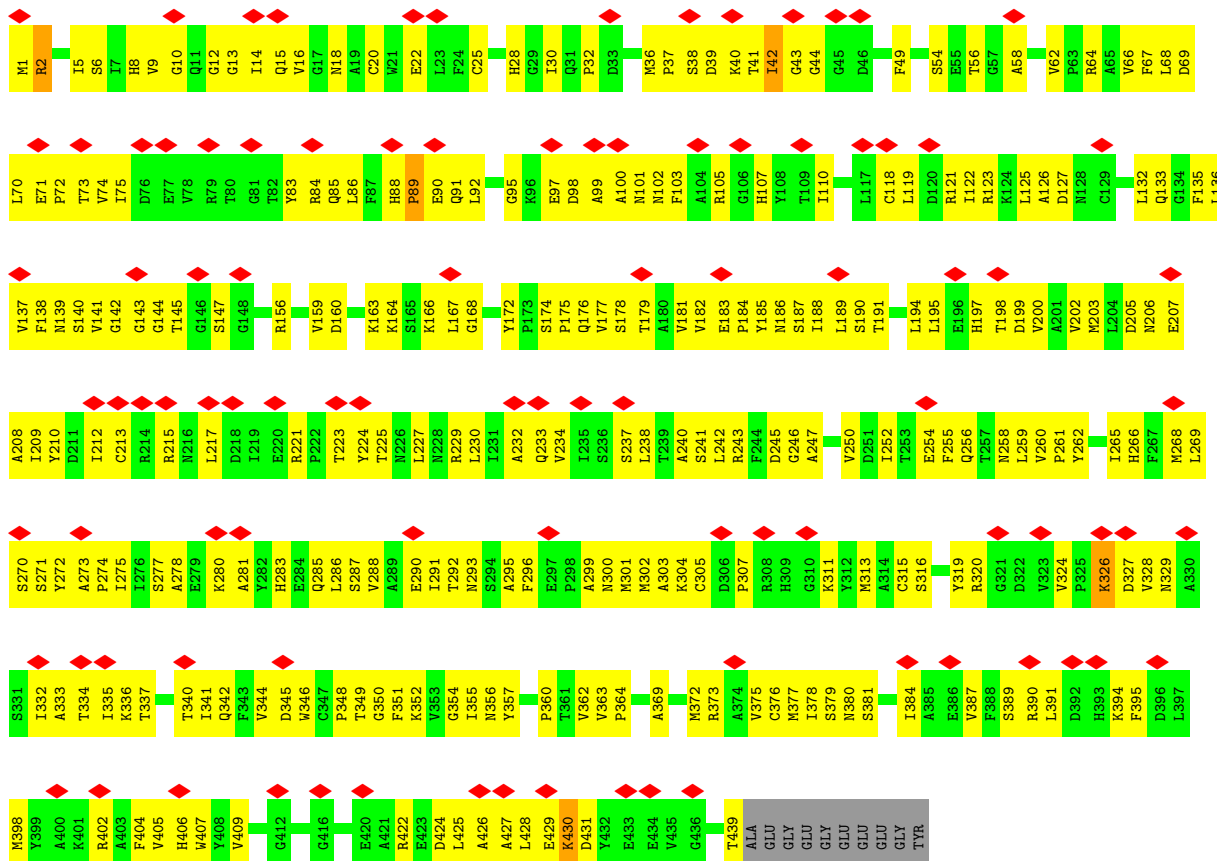
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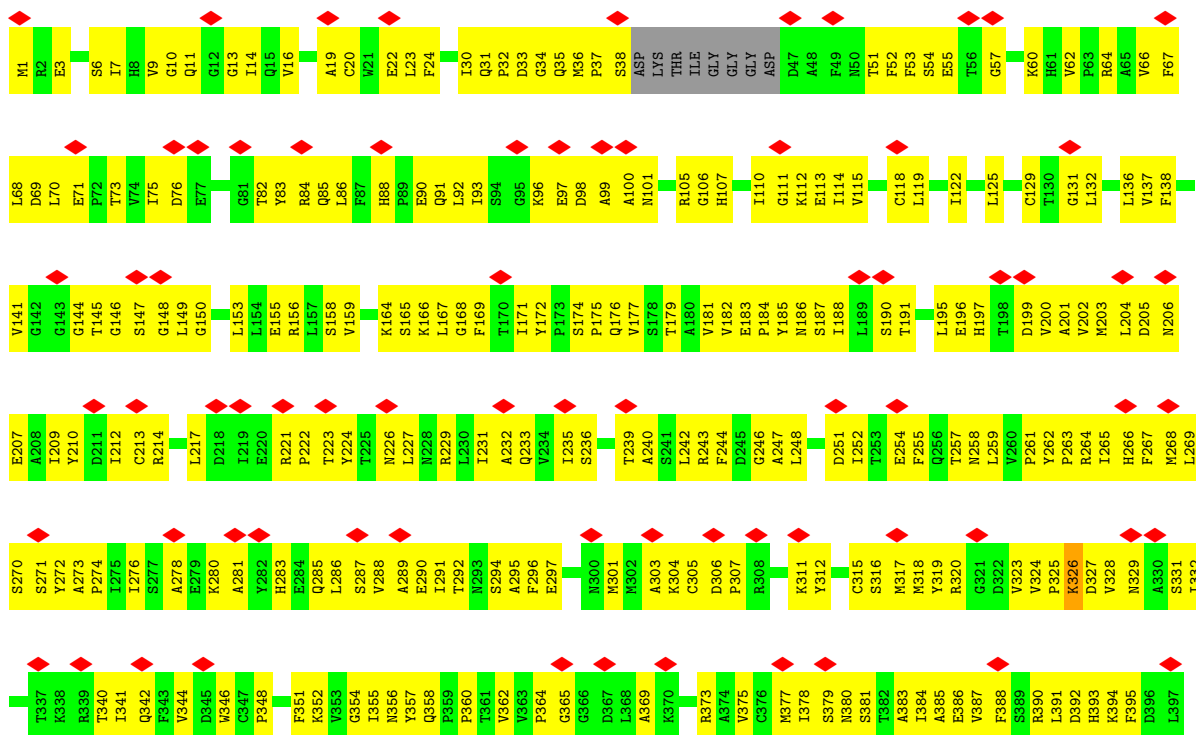


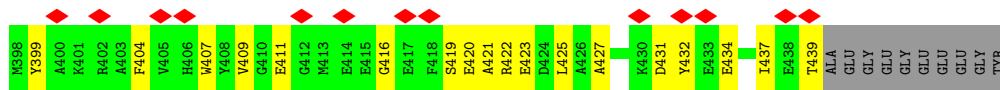




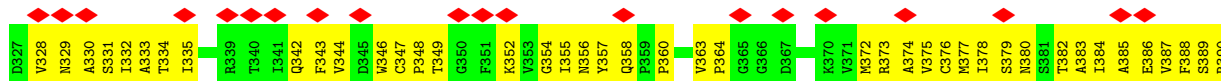
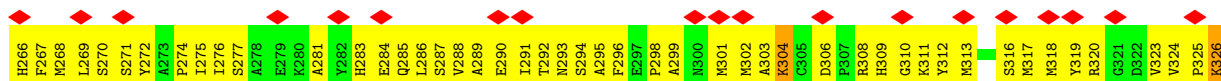
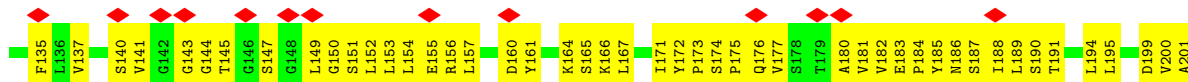
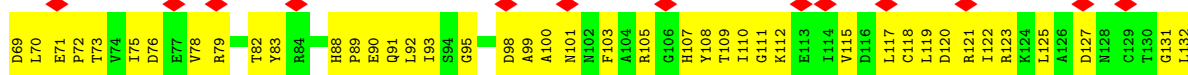
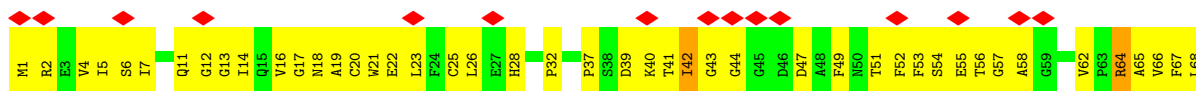
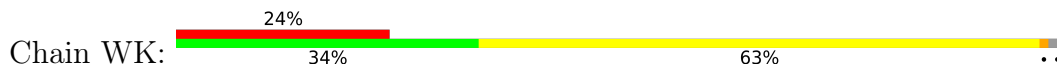


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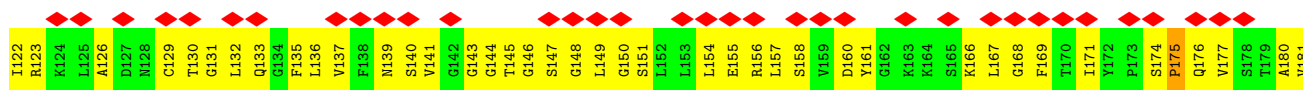
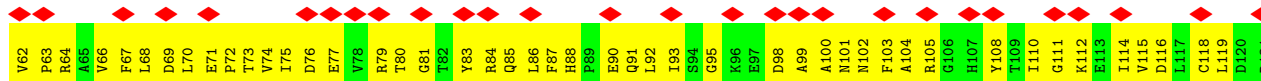


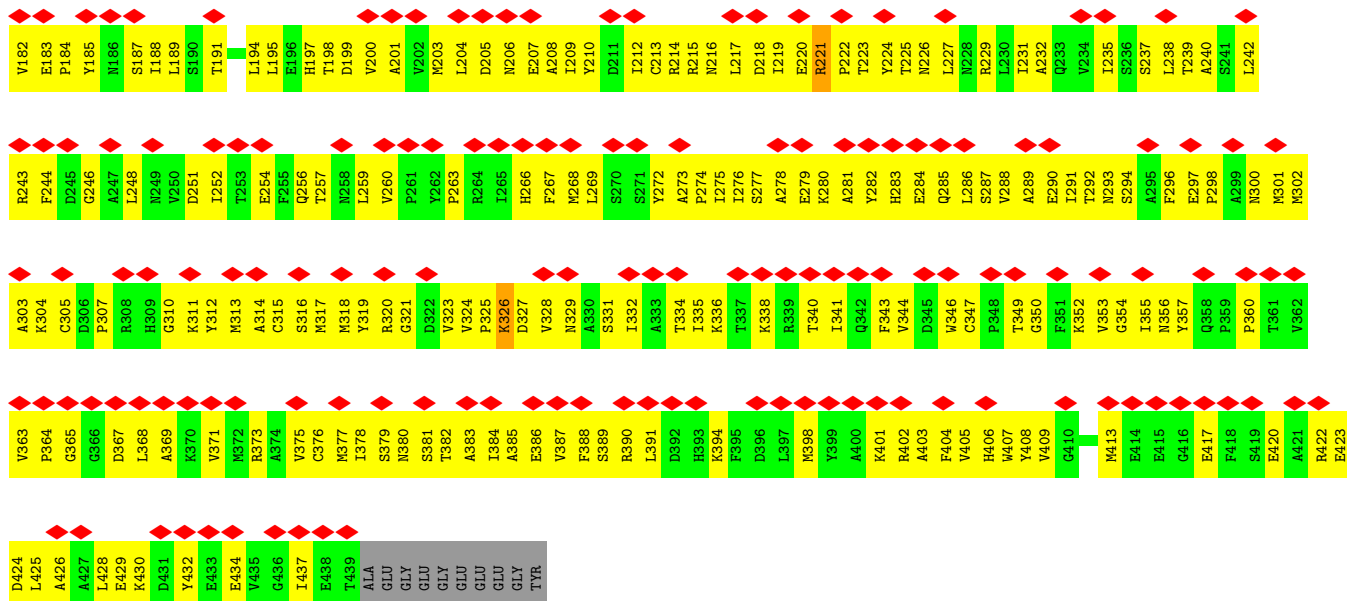


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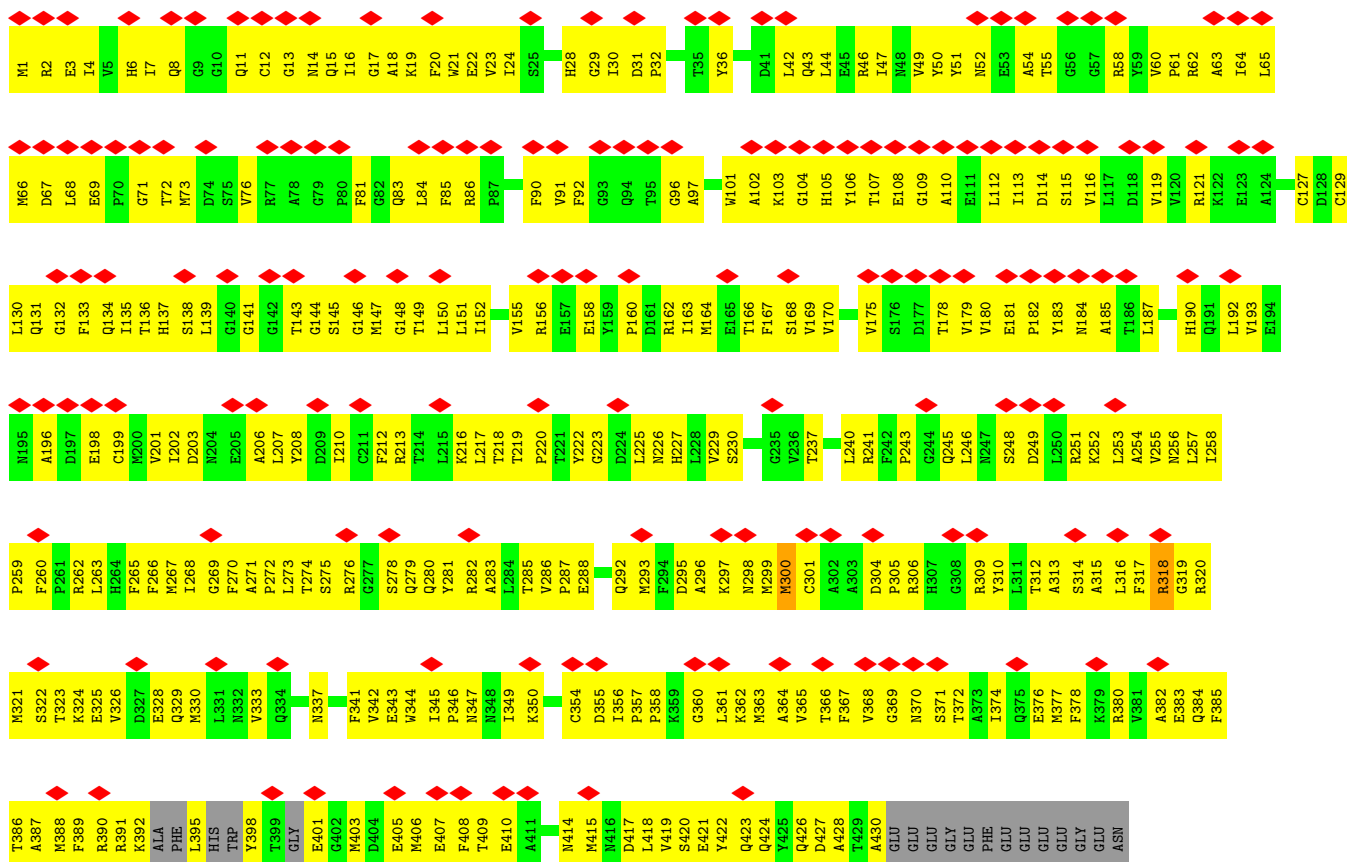


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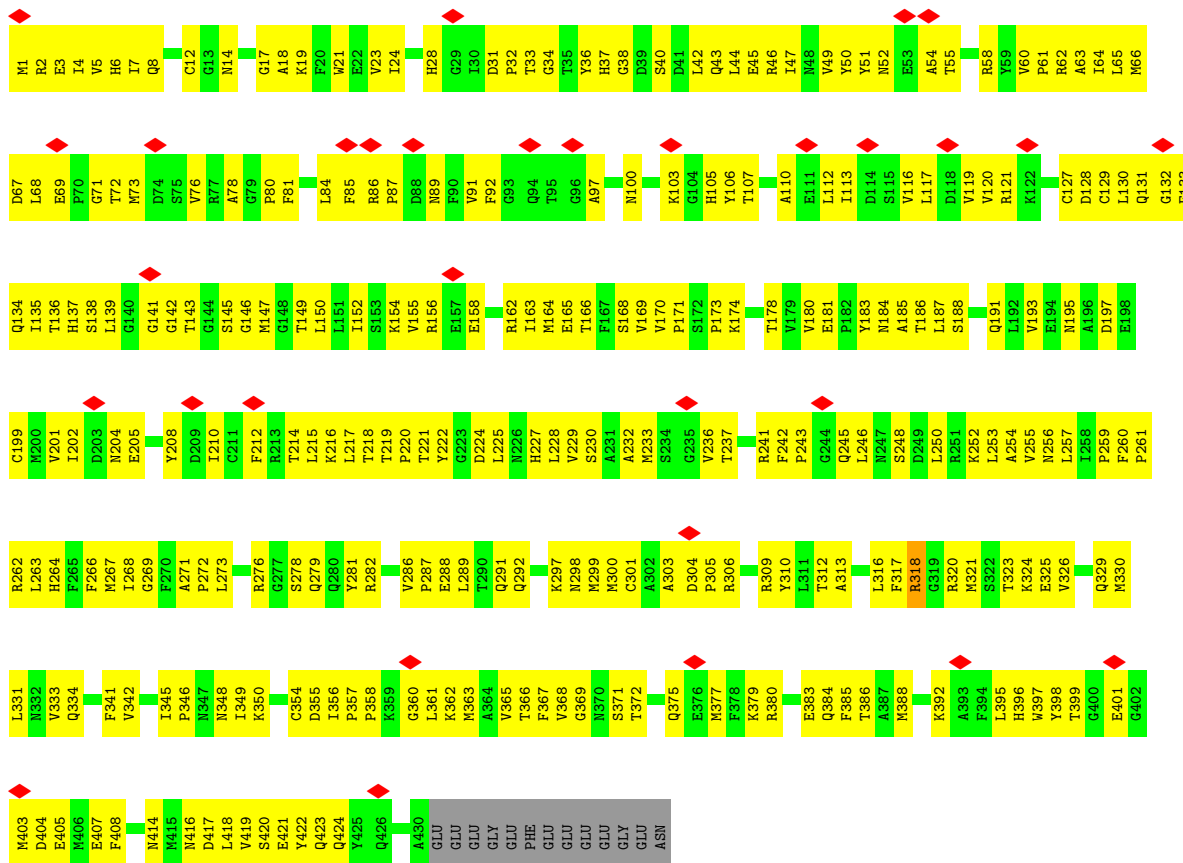


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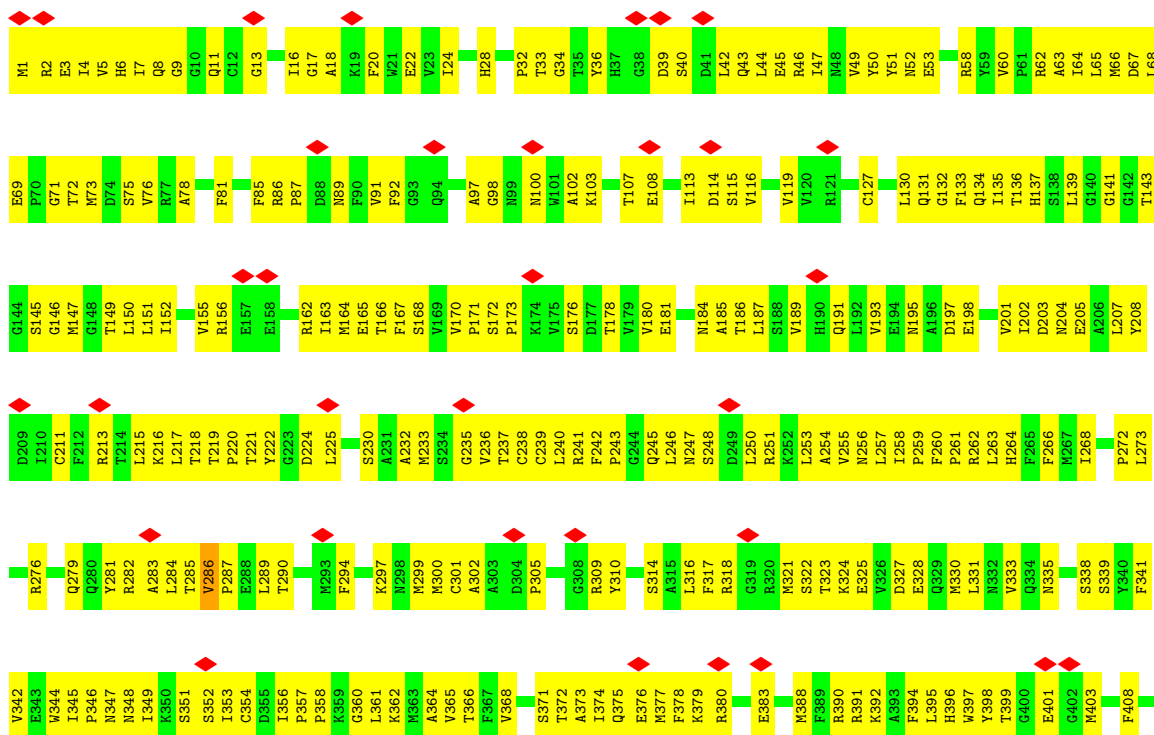


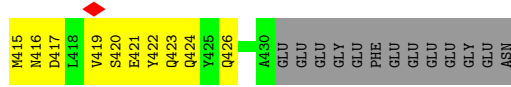
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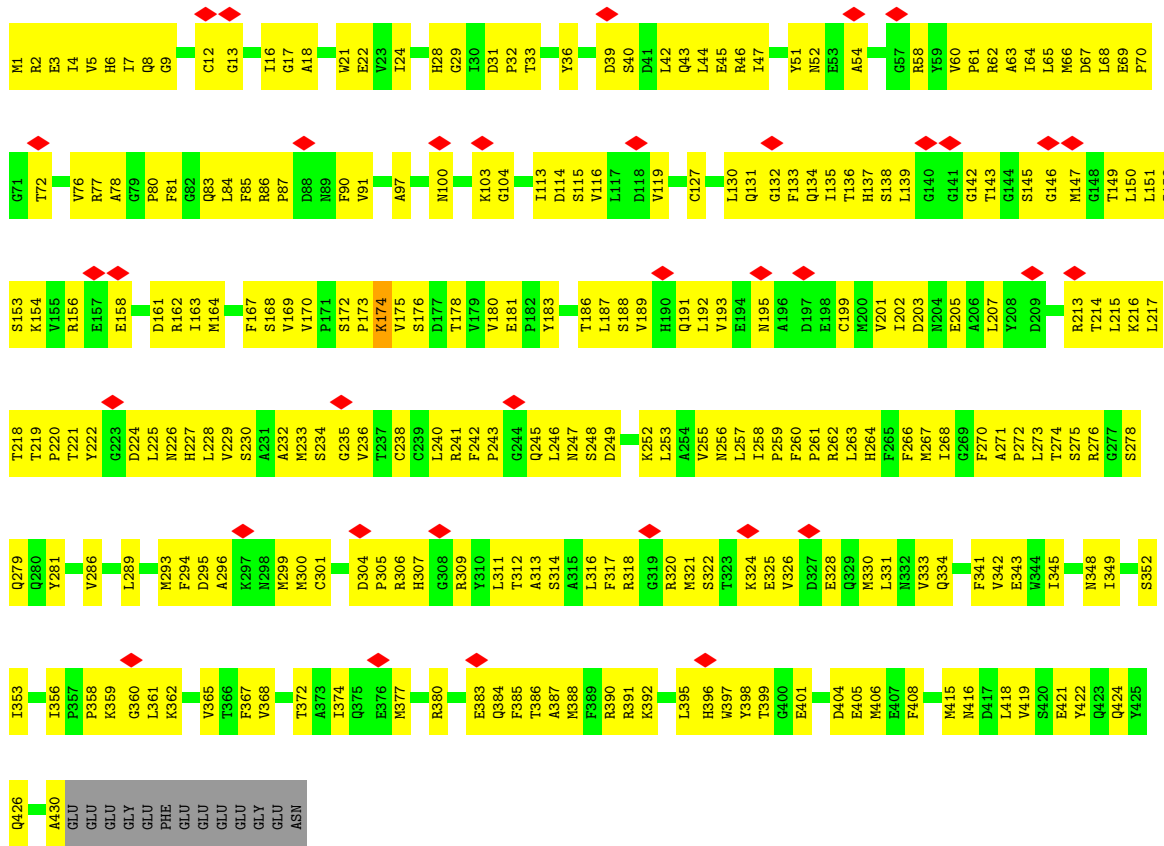


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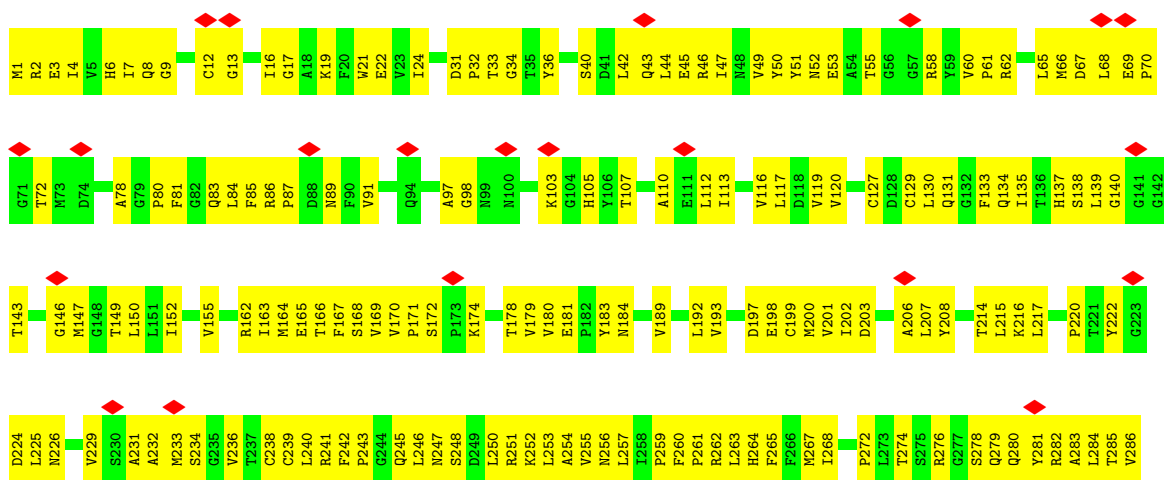




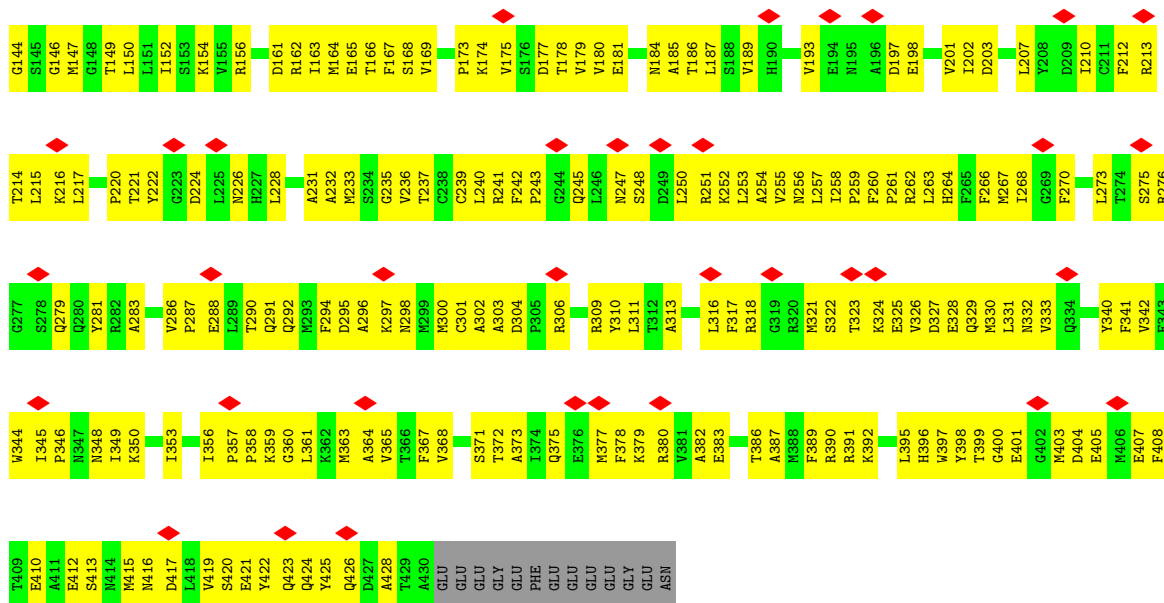
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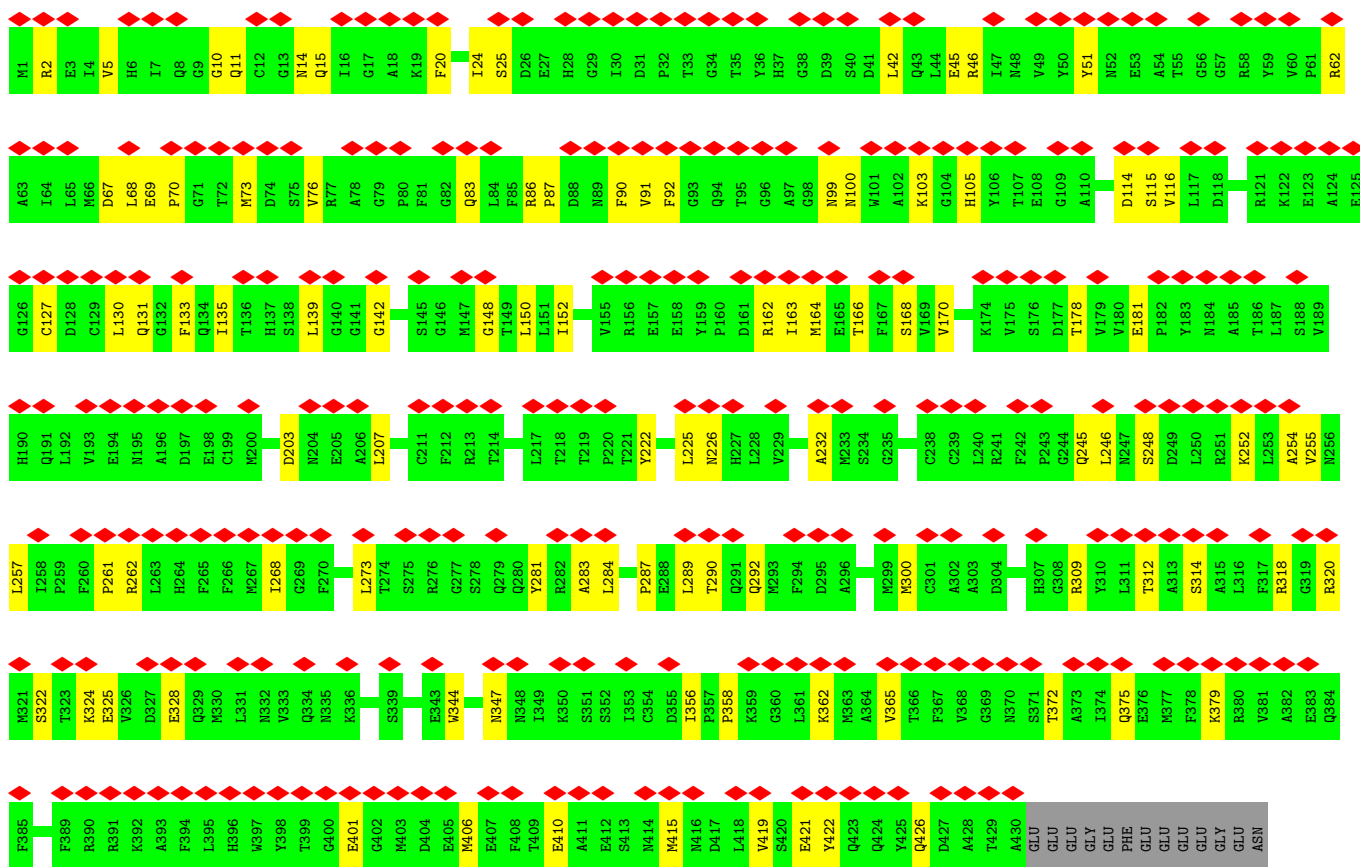
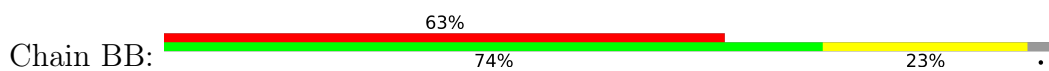
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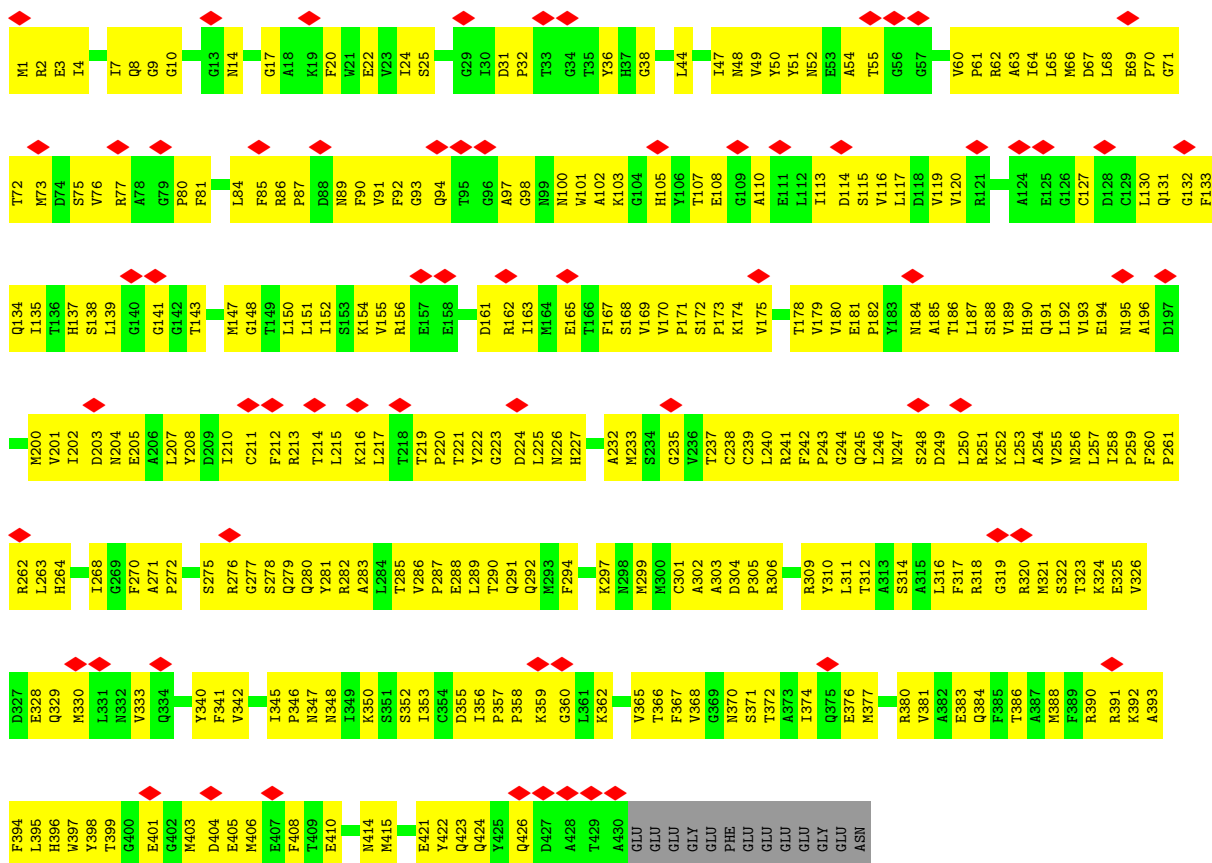
• Molecule 45: Tubulin beta chain



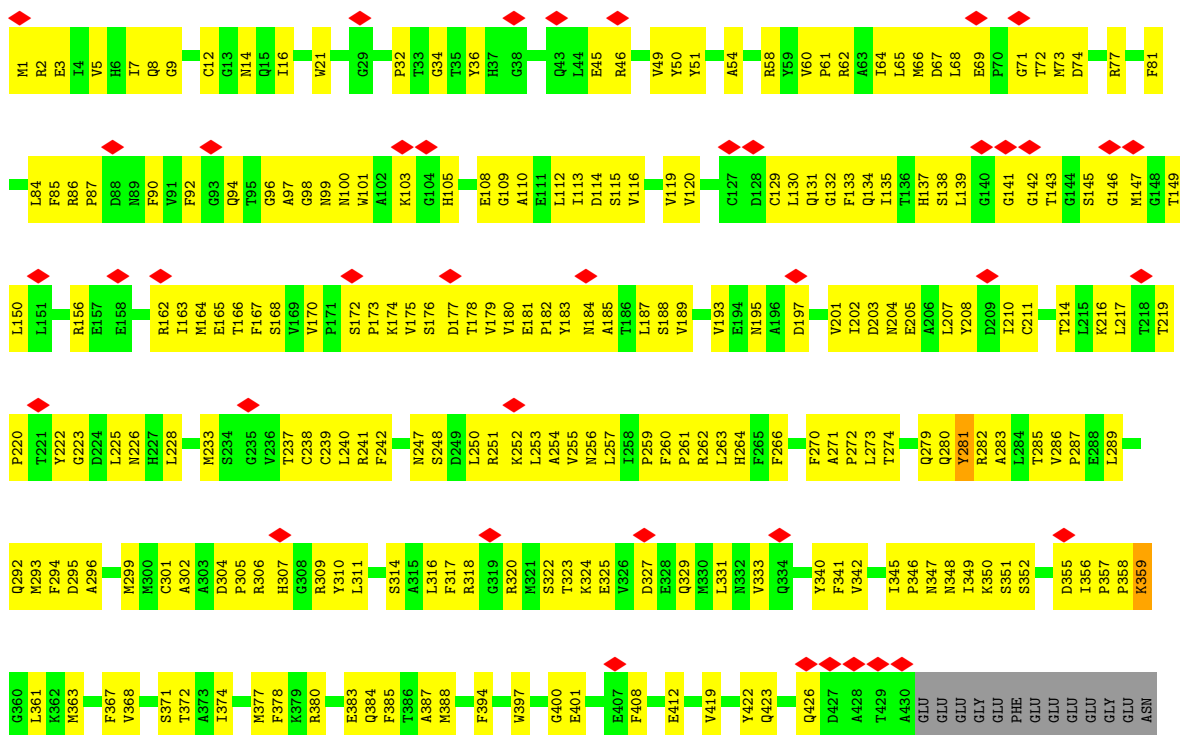
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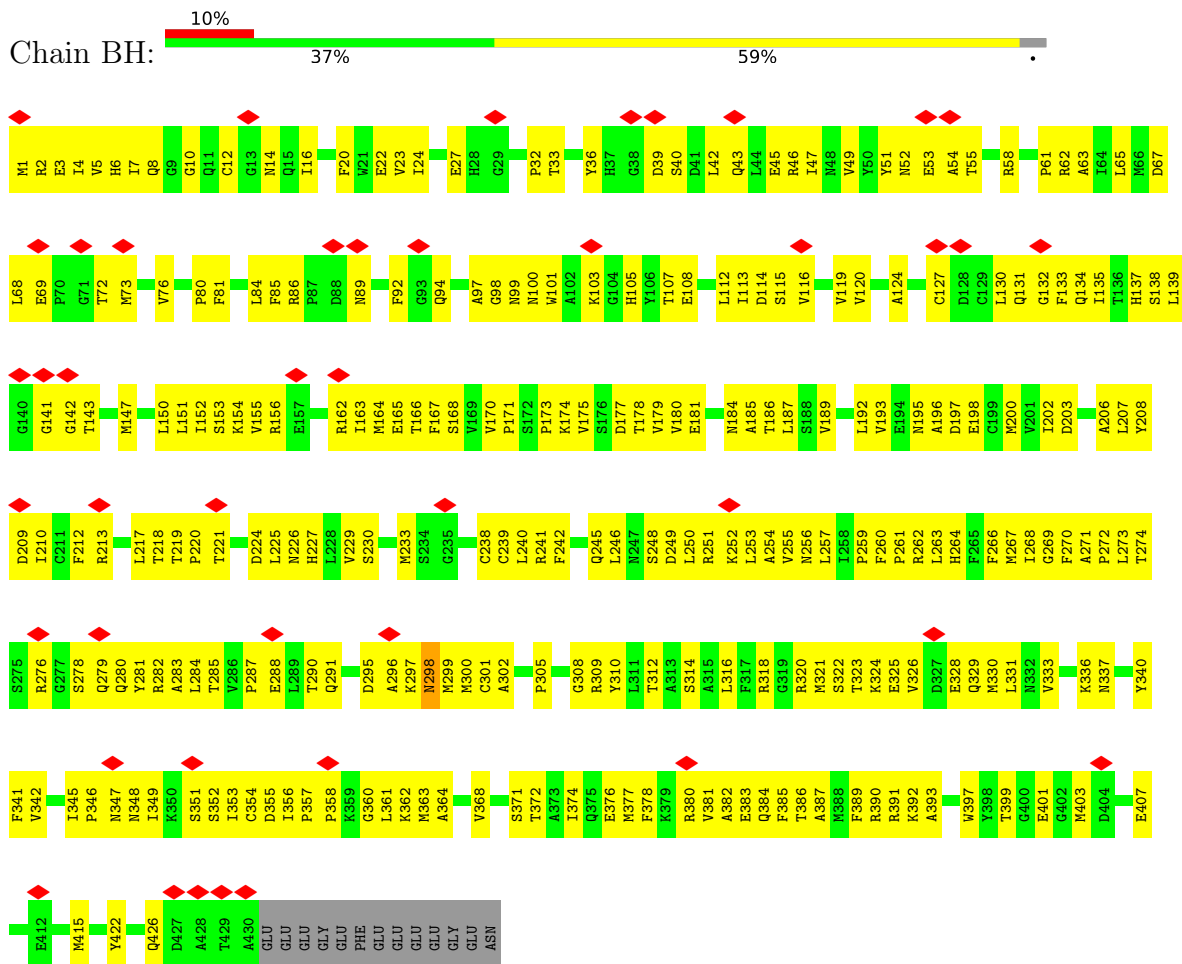




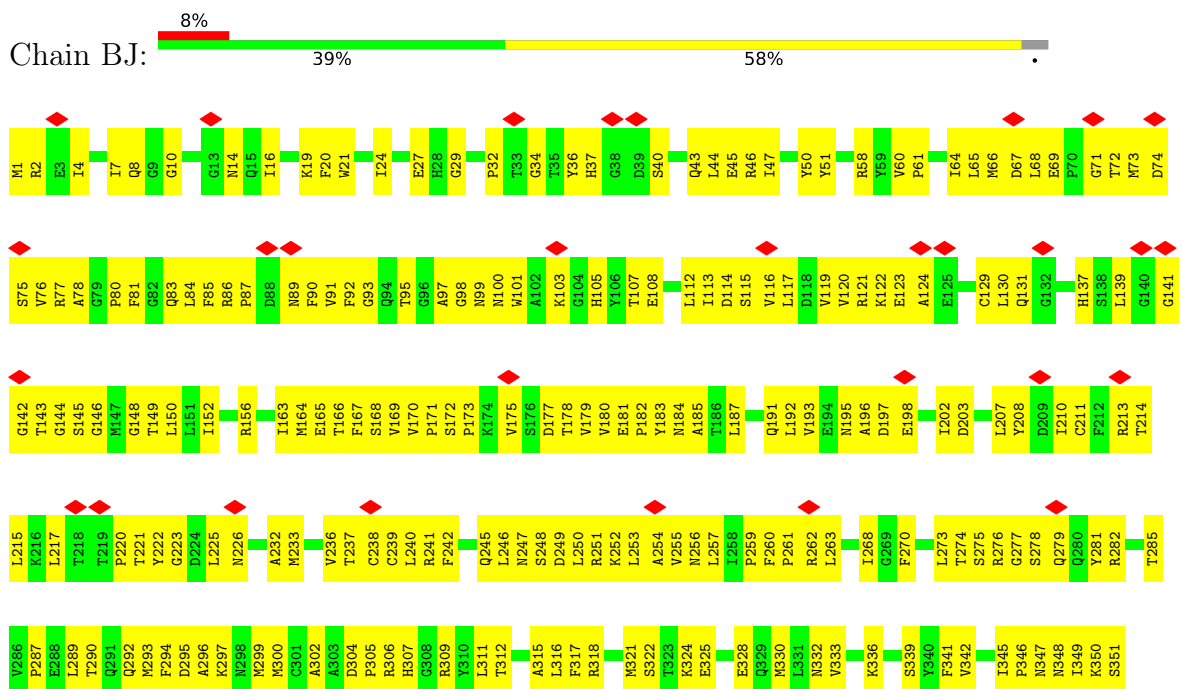
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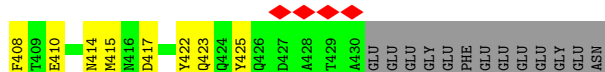
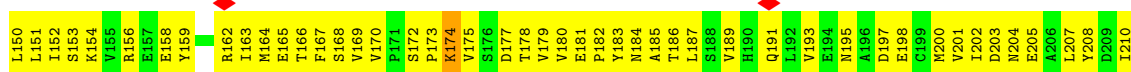


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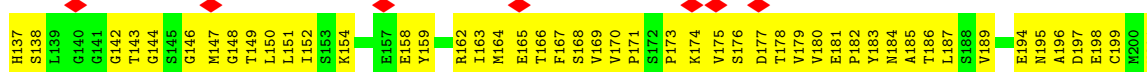
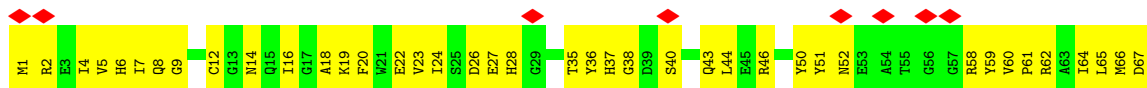
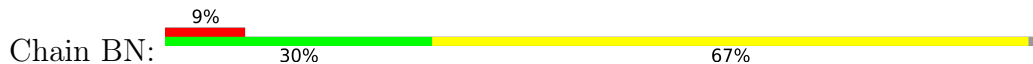


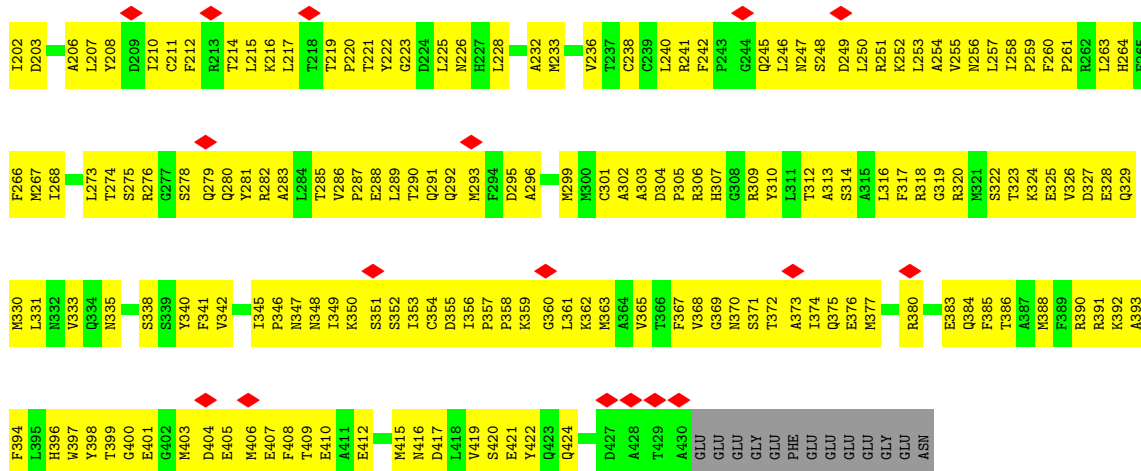


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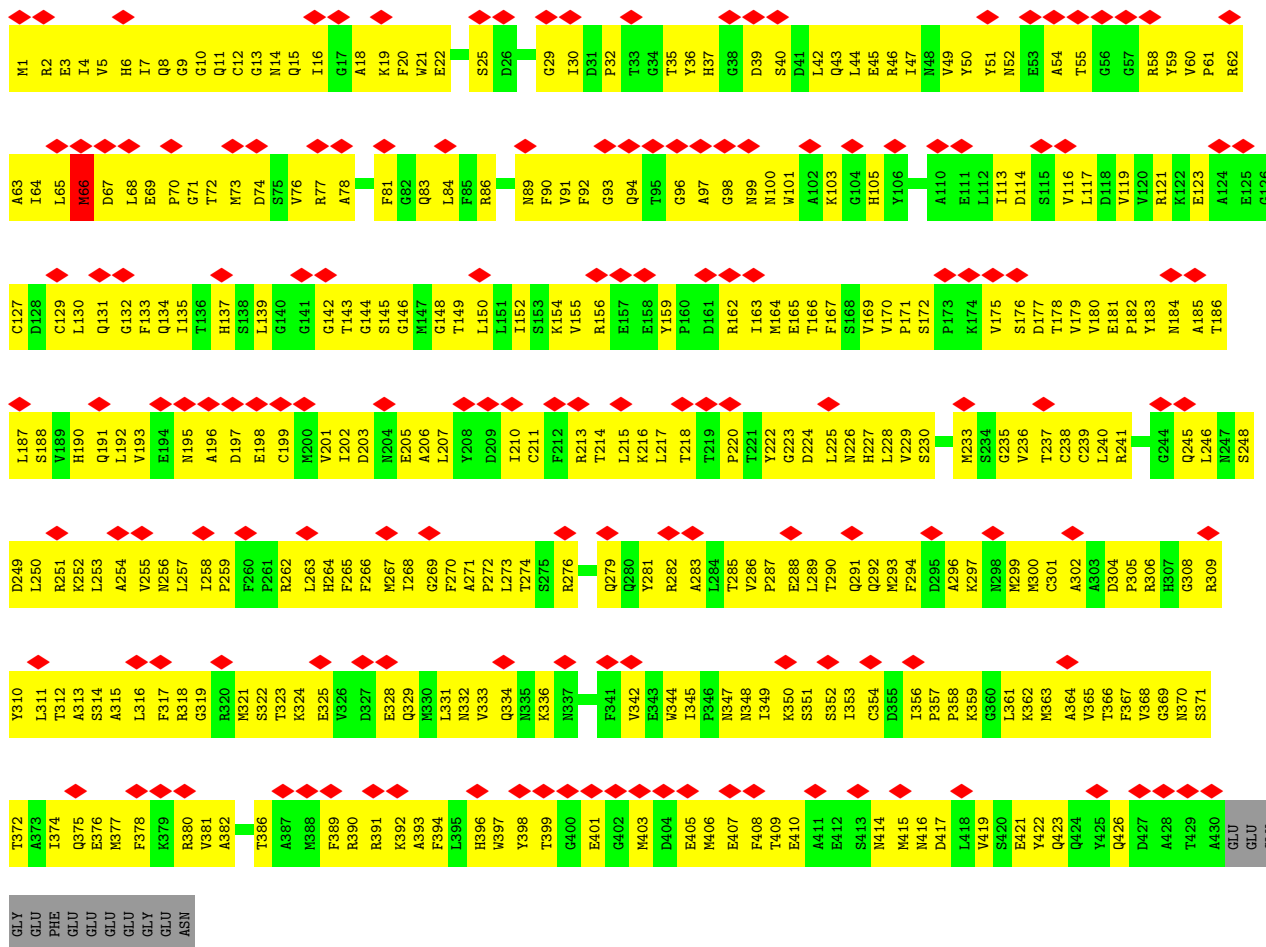


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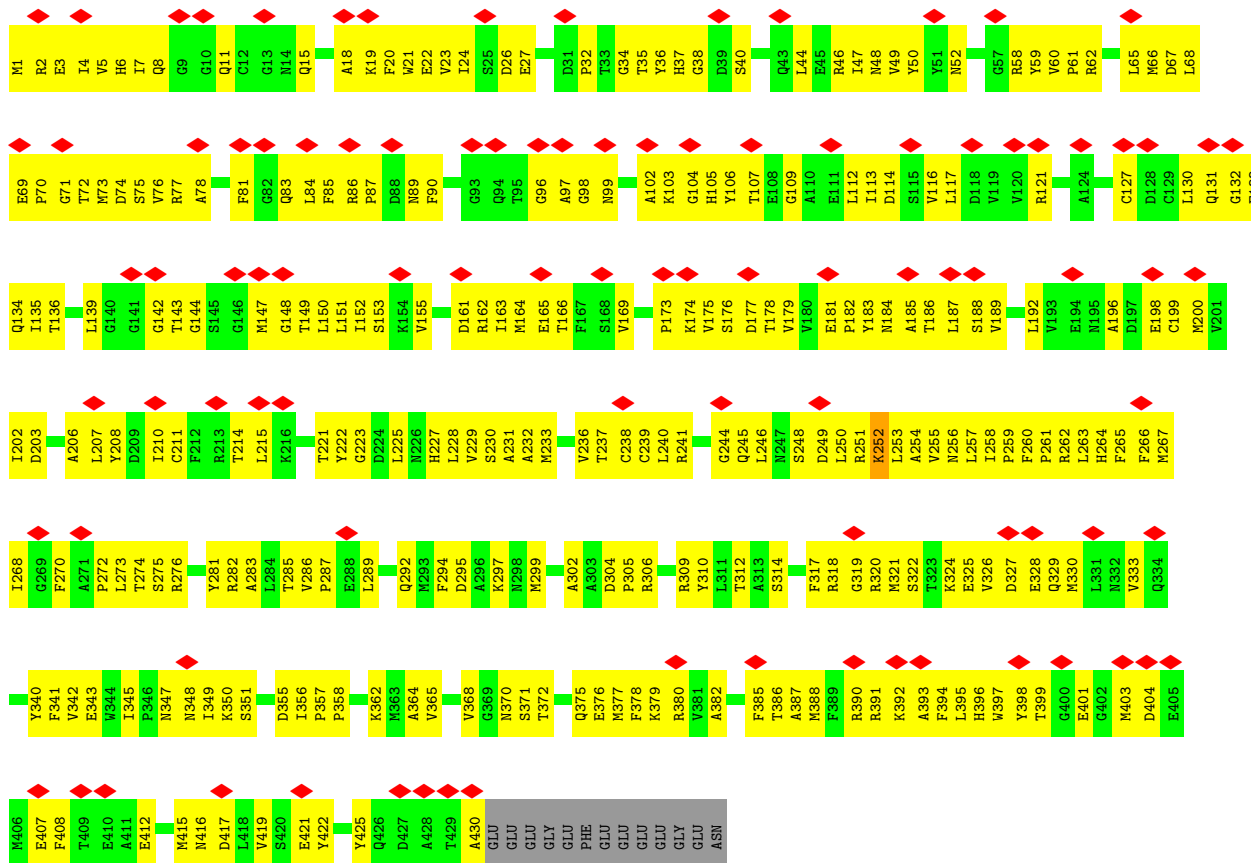


• Molecule 45: Tubulin beta chain

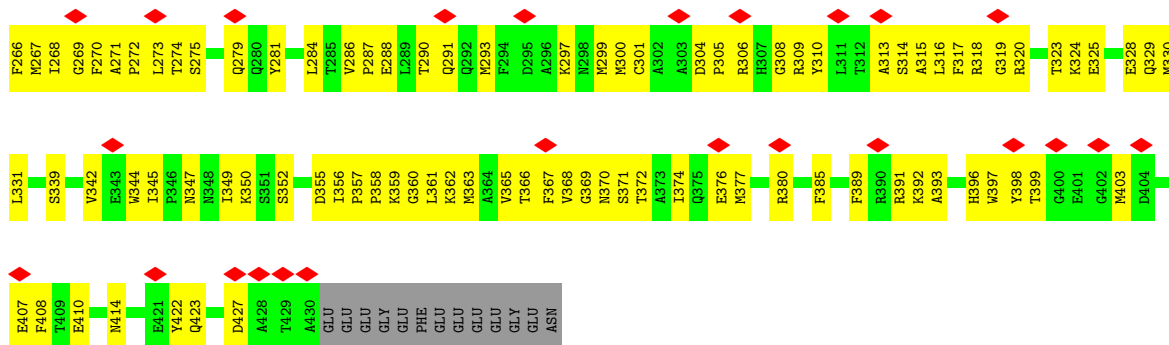


• Molecule 45: Tubulin beta chain

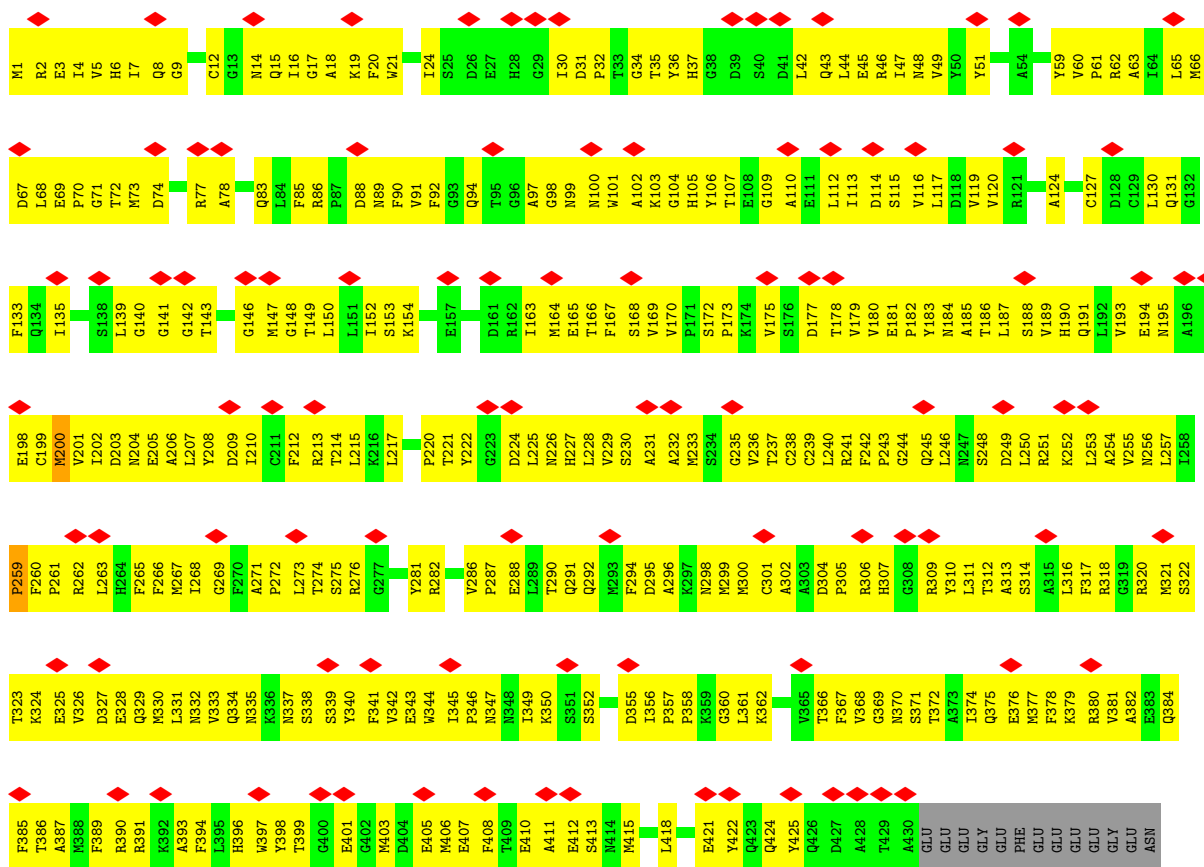




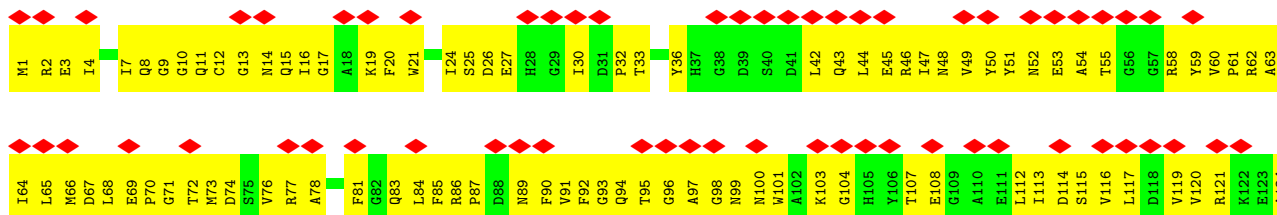




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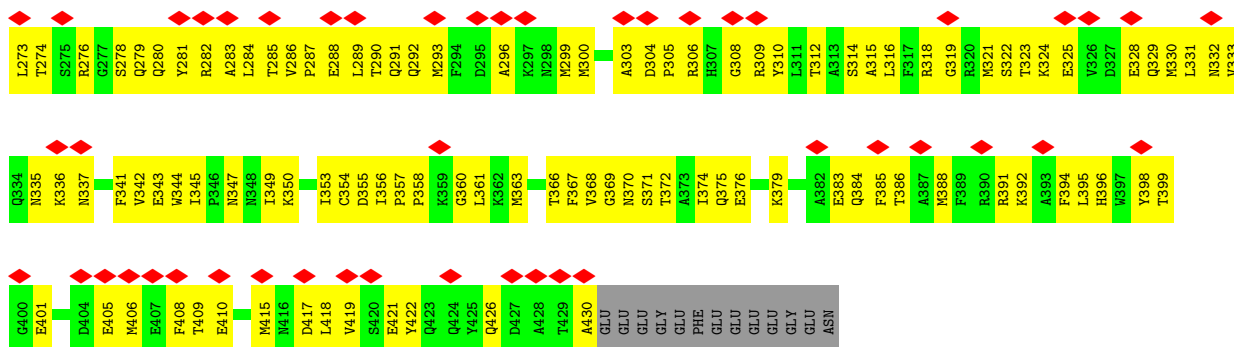
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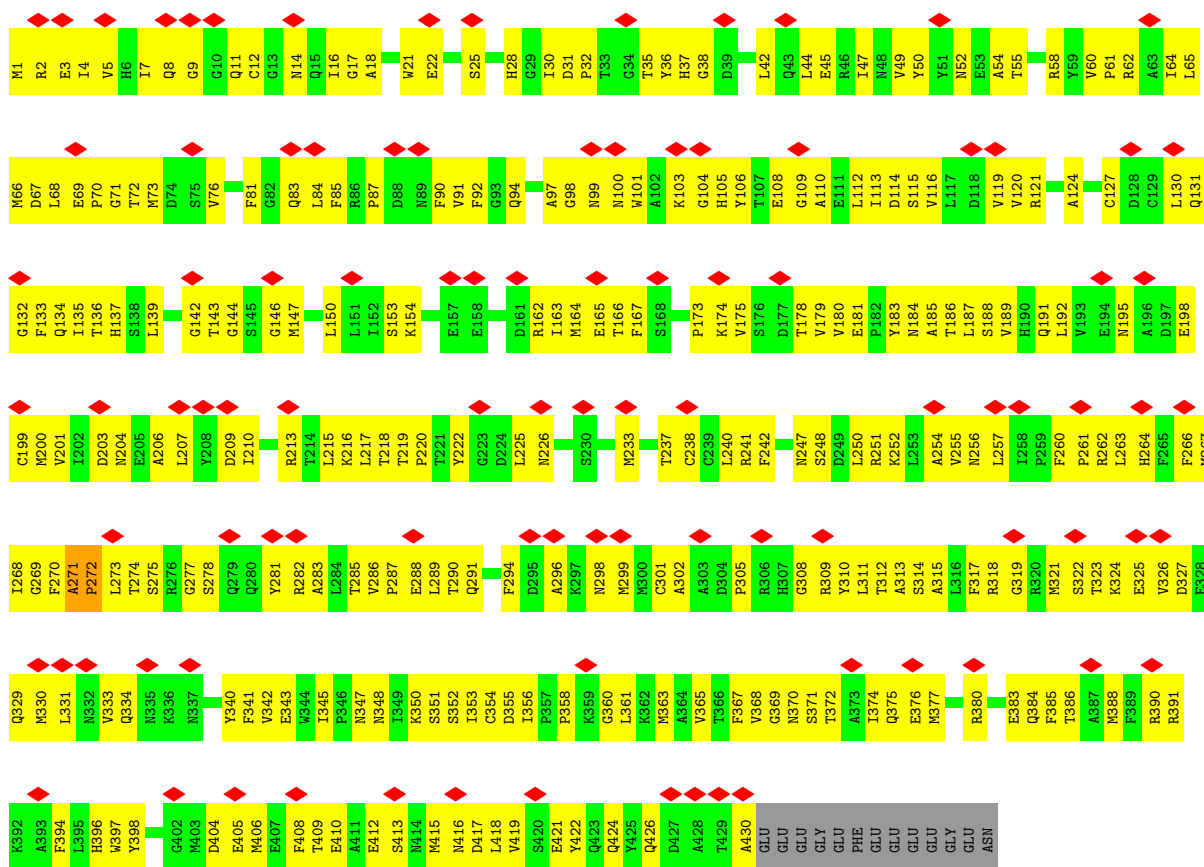




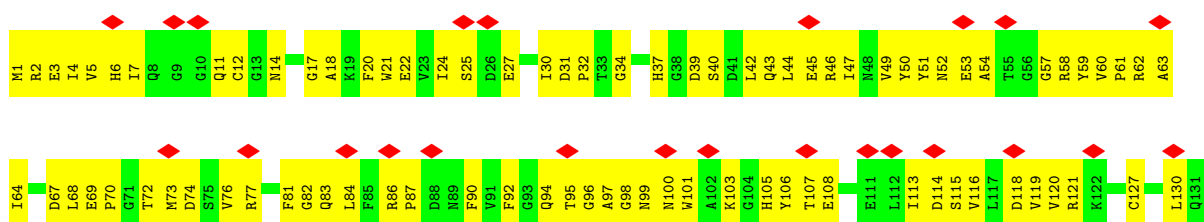




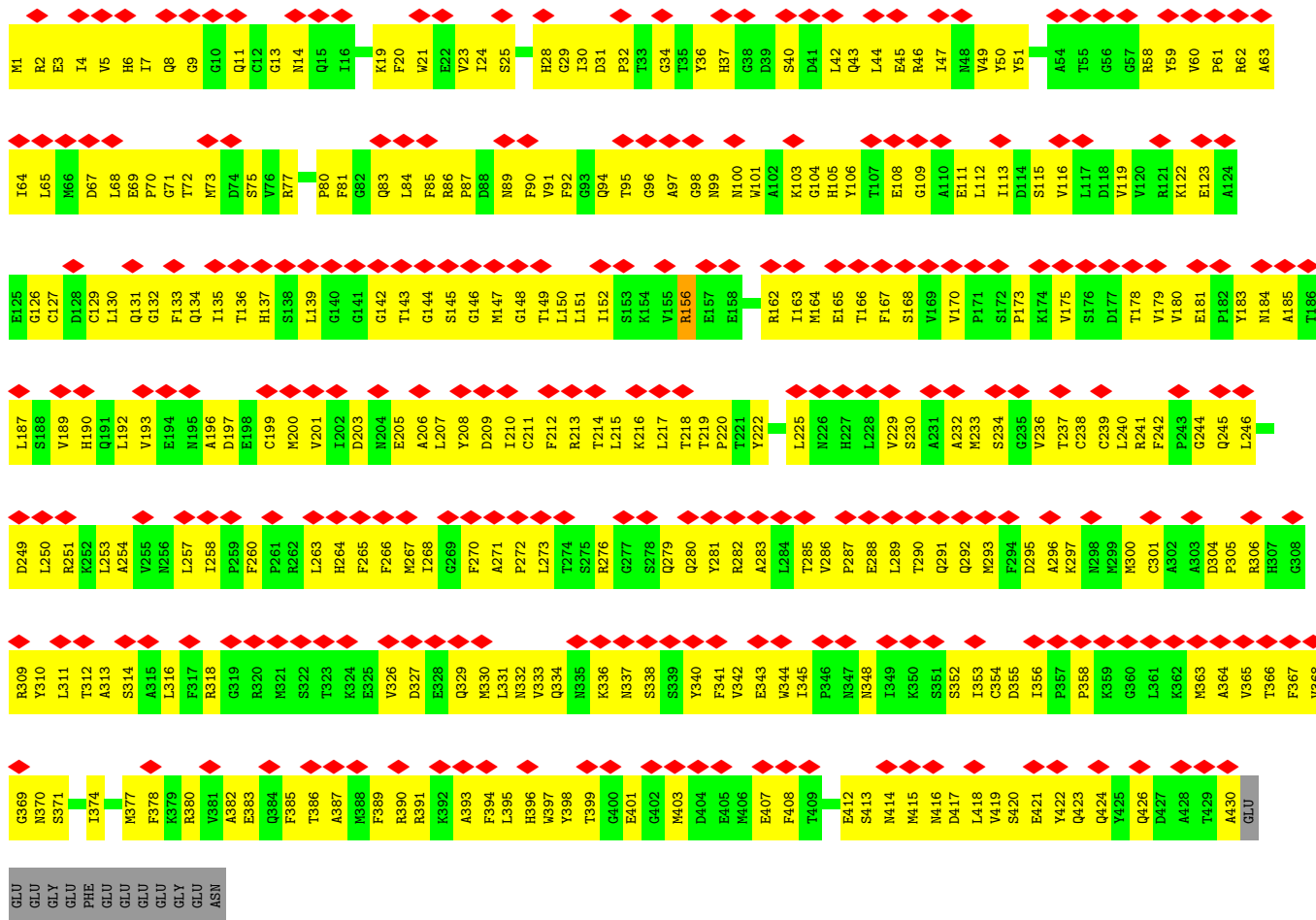
• Molecule 45: Tubulin beta chain



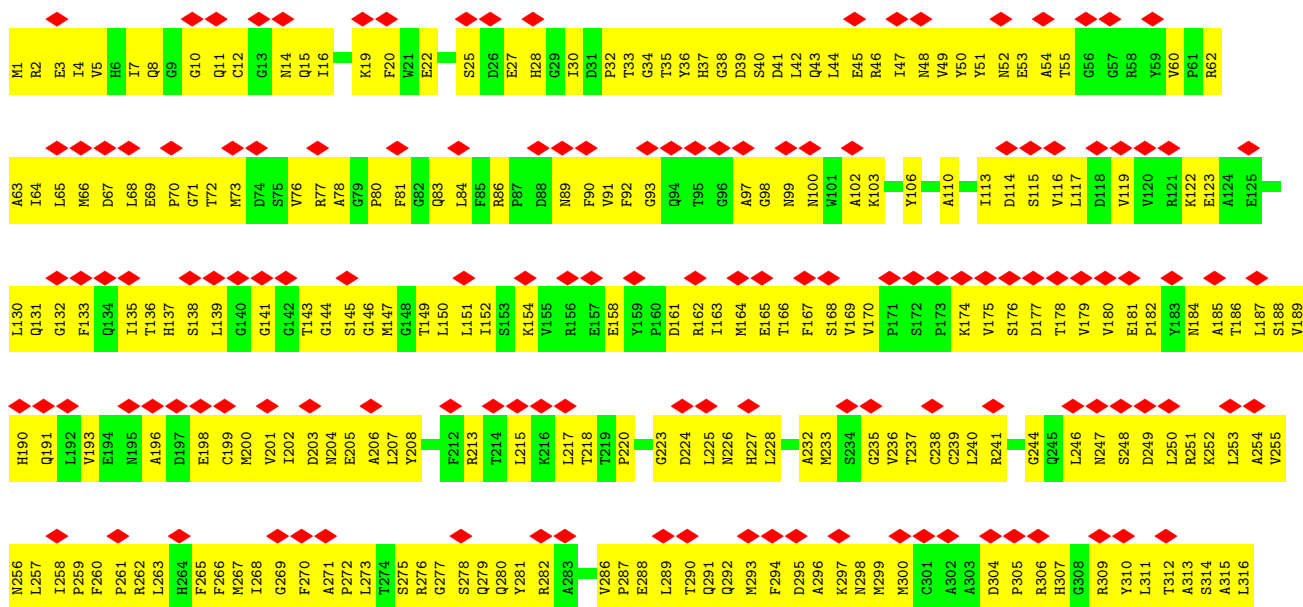
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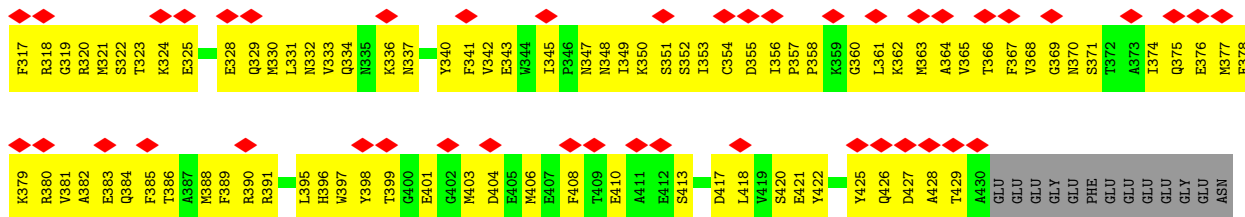




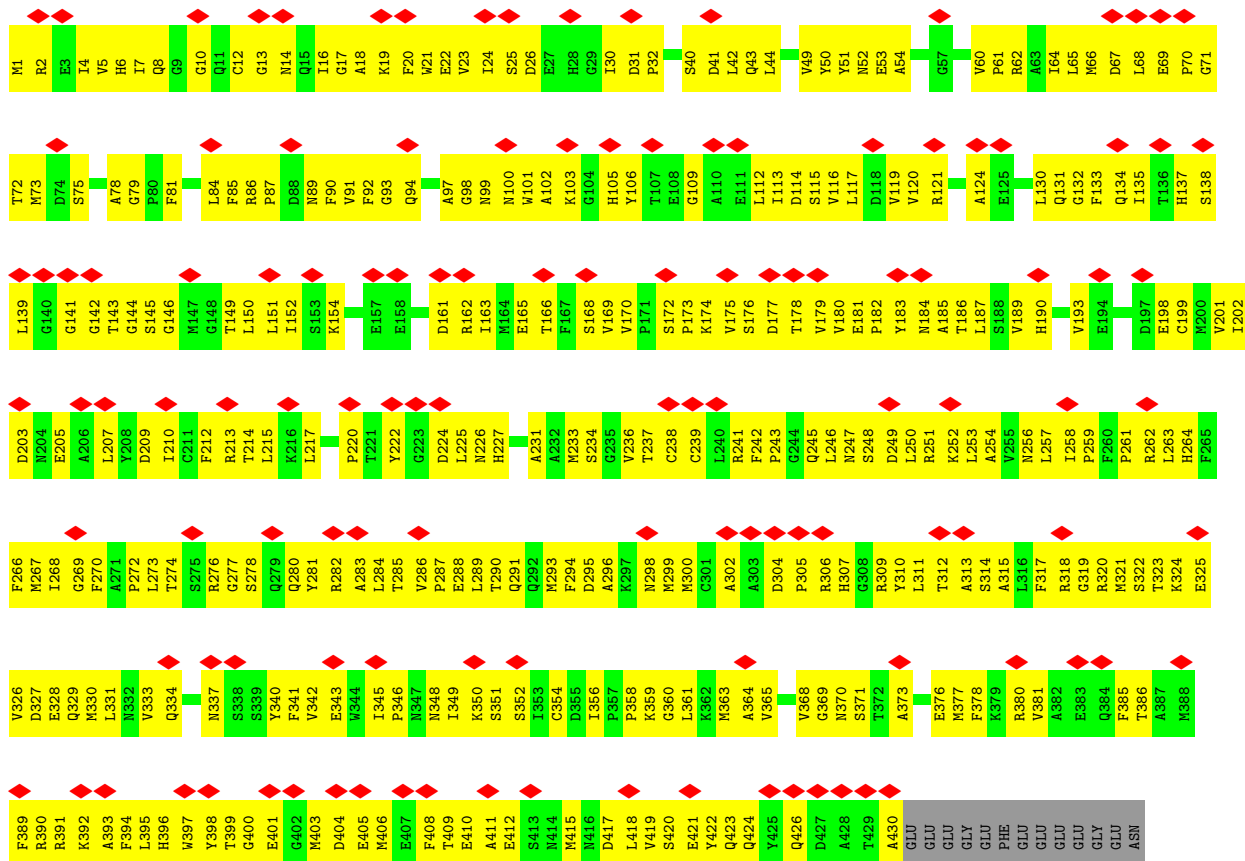


• Molecule 45: Tubulin beta chain

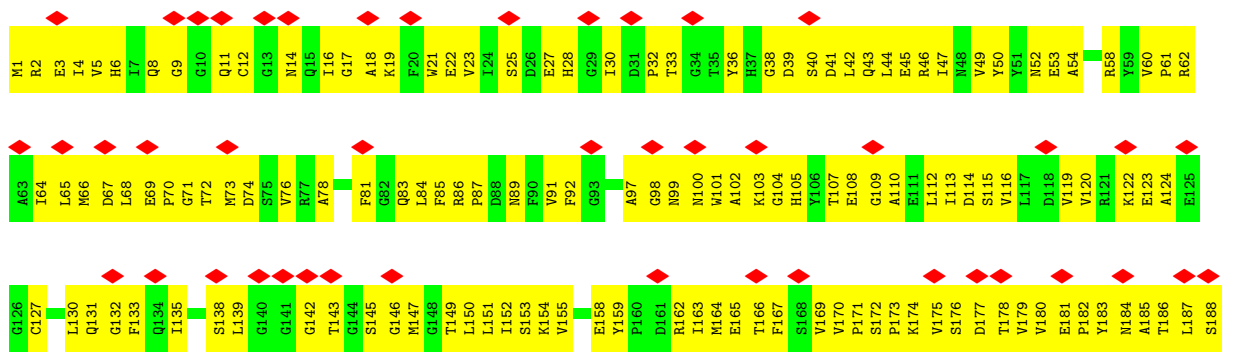


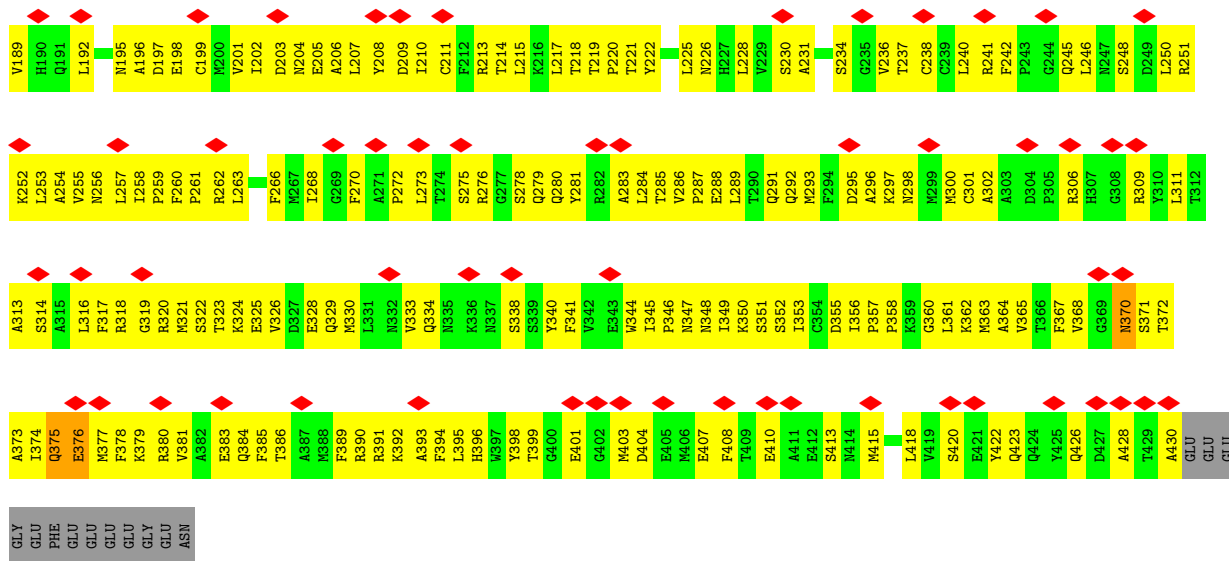


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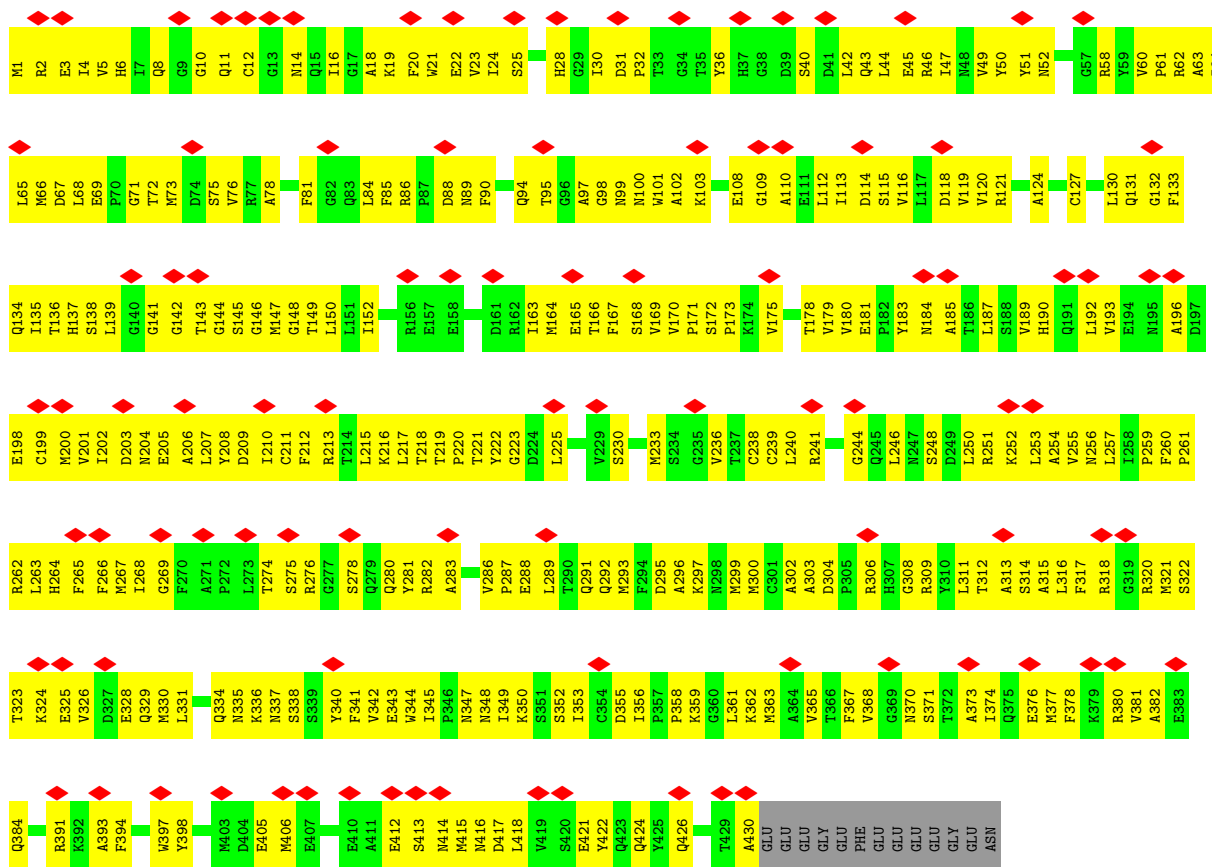


• Molecule 45: Tubulin beta chain



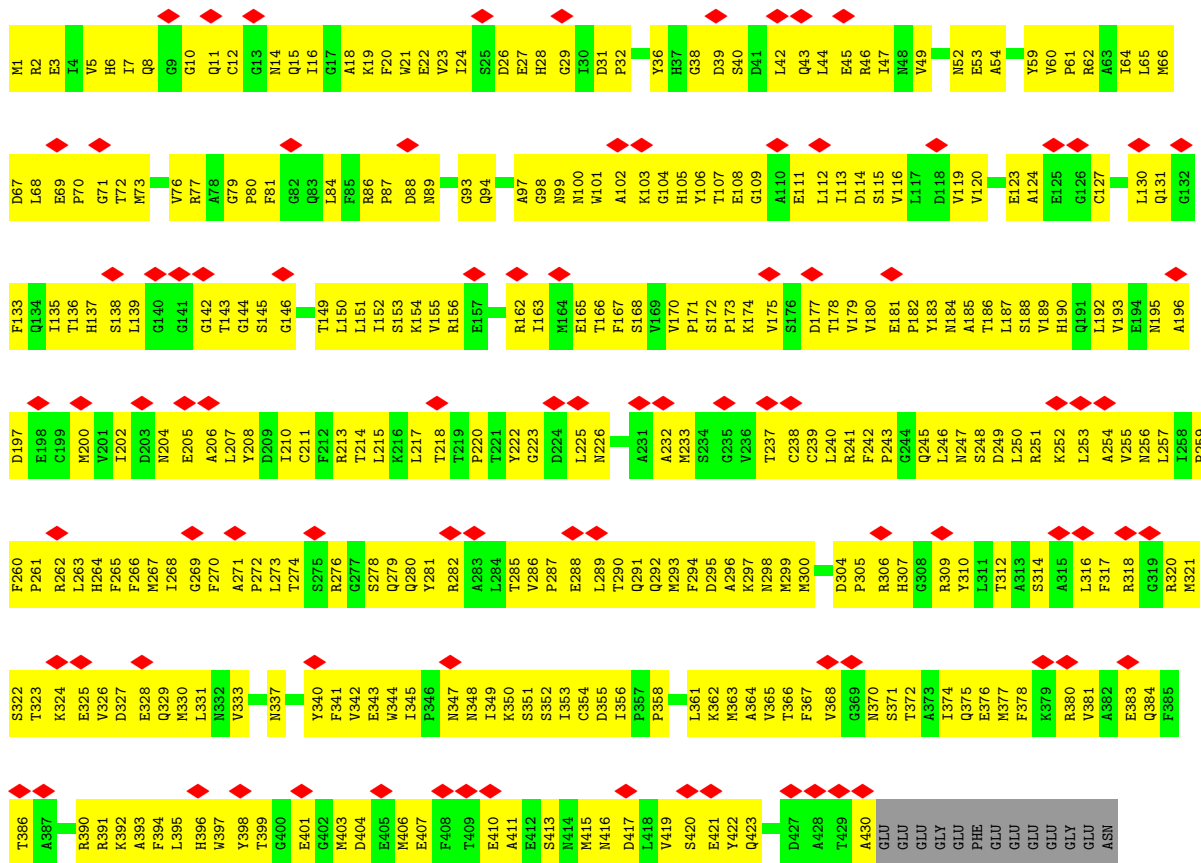


• Molecule 45: Tubulin beta chain

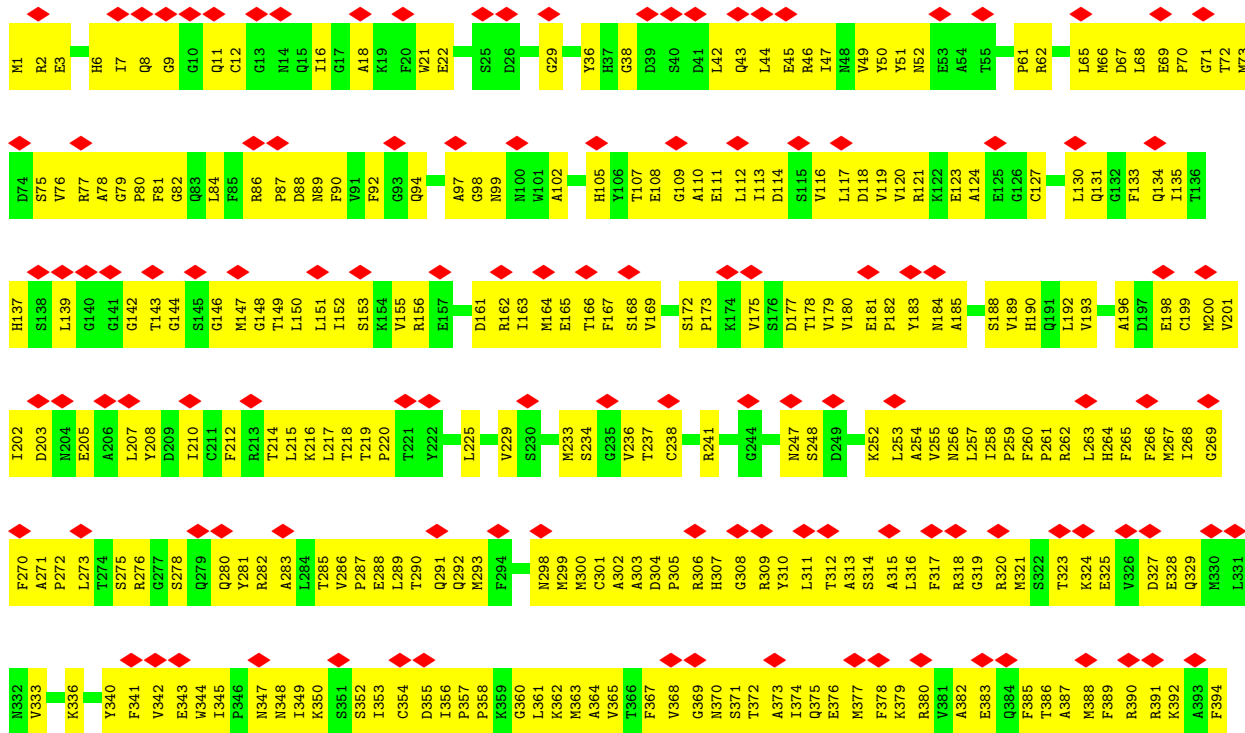


• Molecule 45: Tubulin beta chain



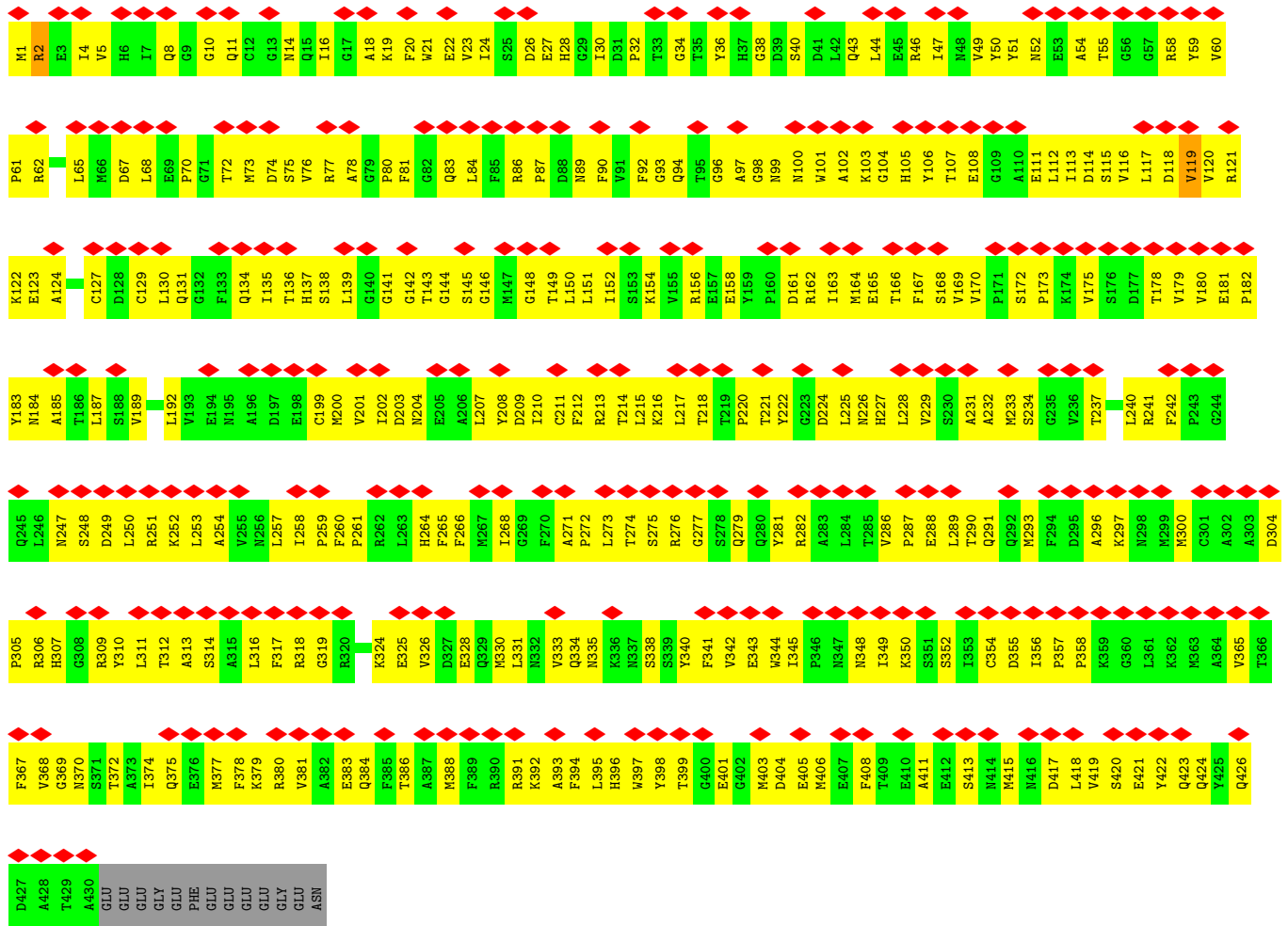


• Molecule 45: Tubulin beta chain

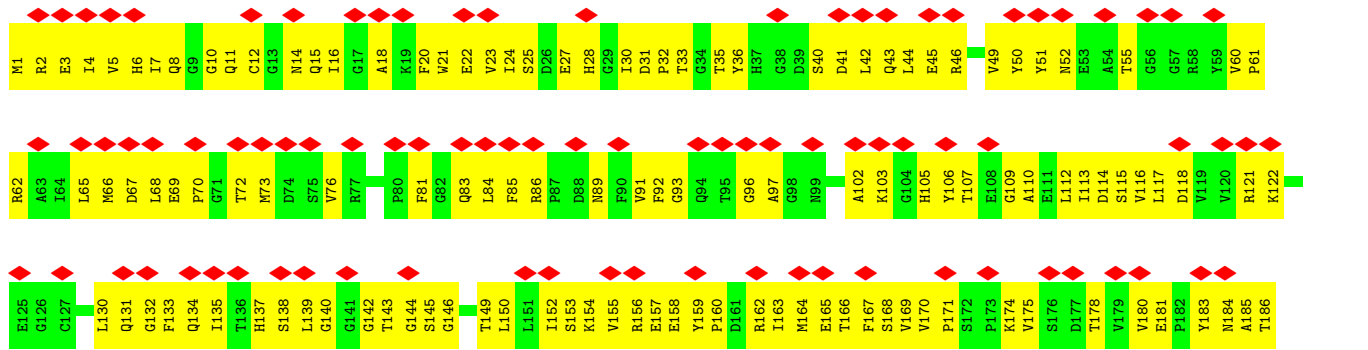




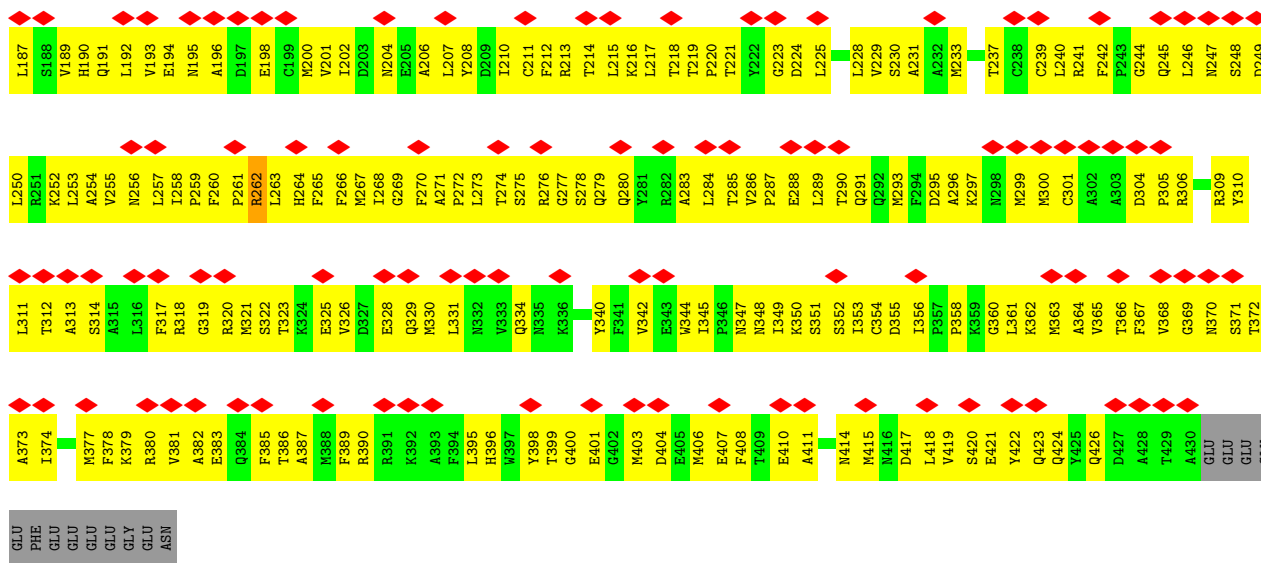
• Molecule 45: Tubulin beta chain



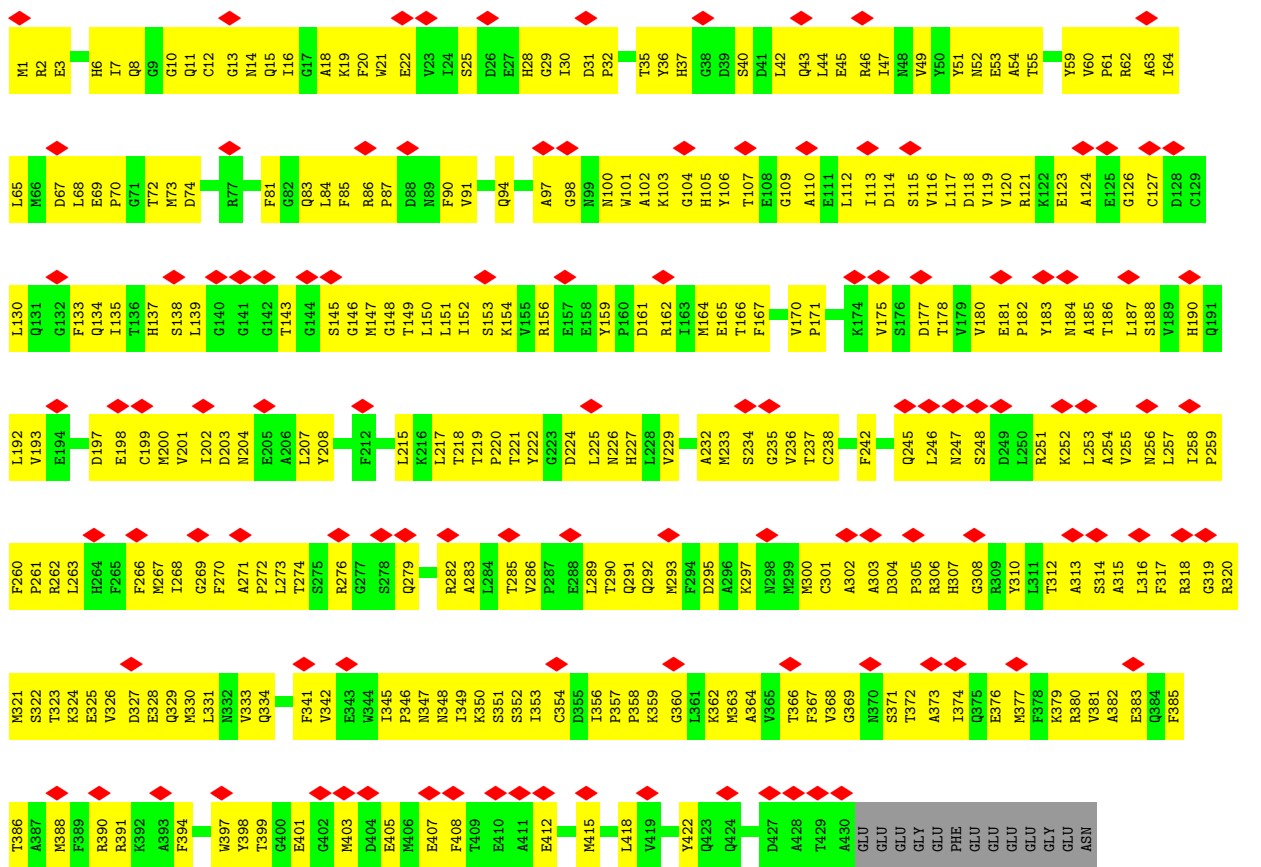
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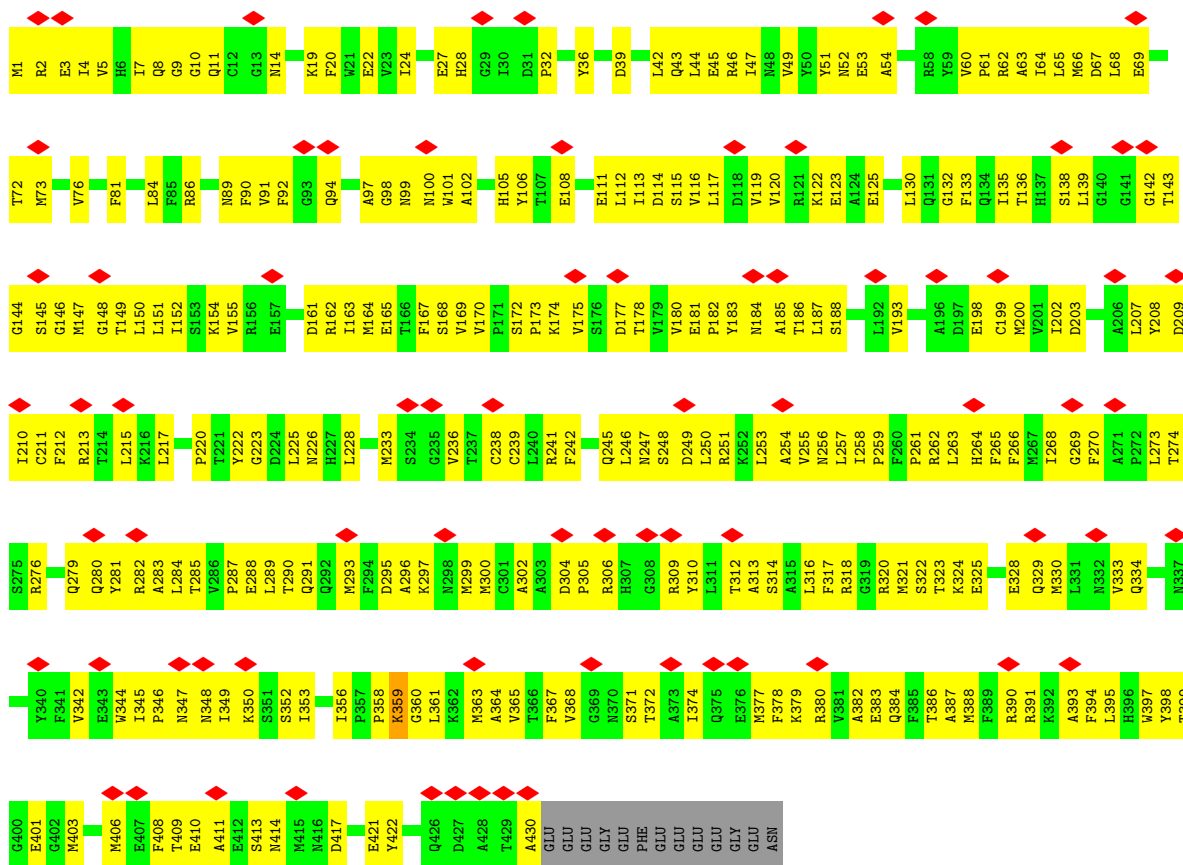


• Molecule 45: Tubulin beta chain

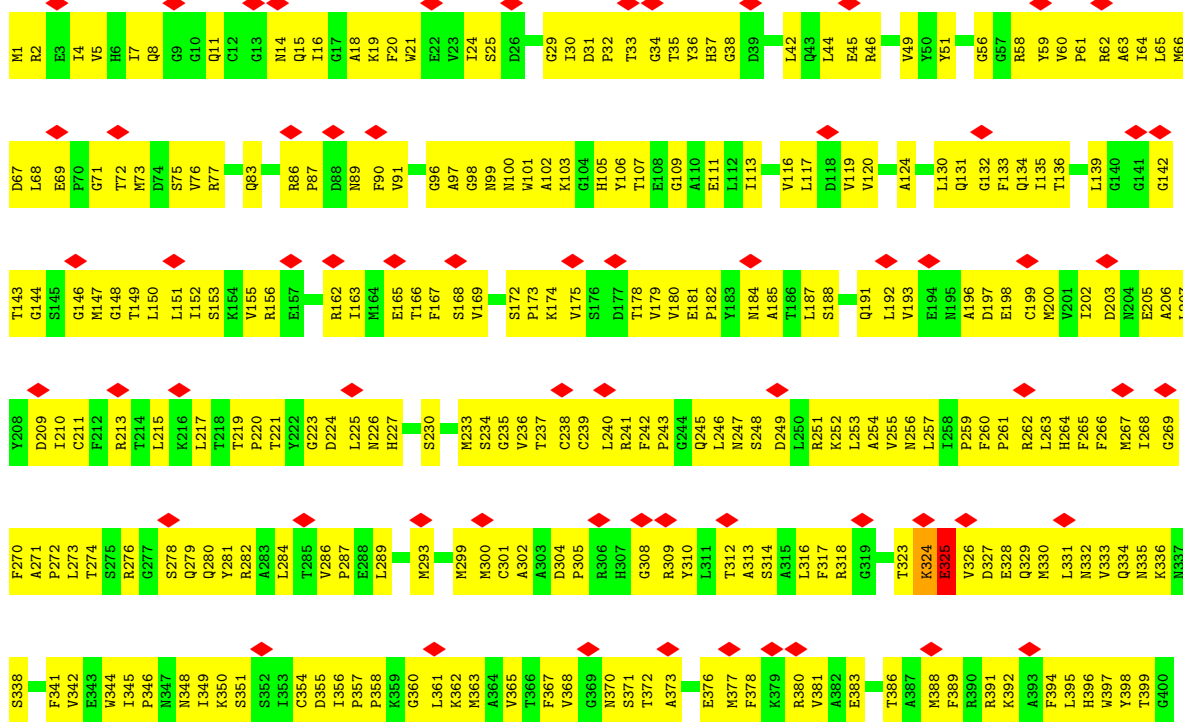


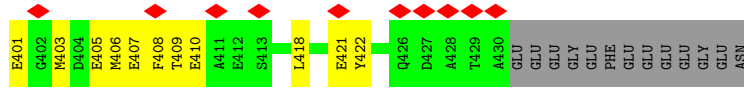
• Molecule 45: Tubulin beta chain



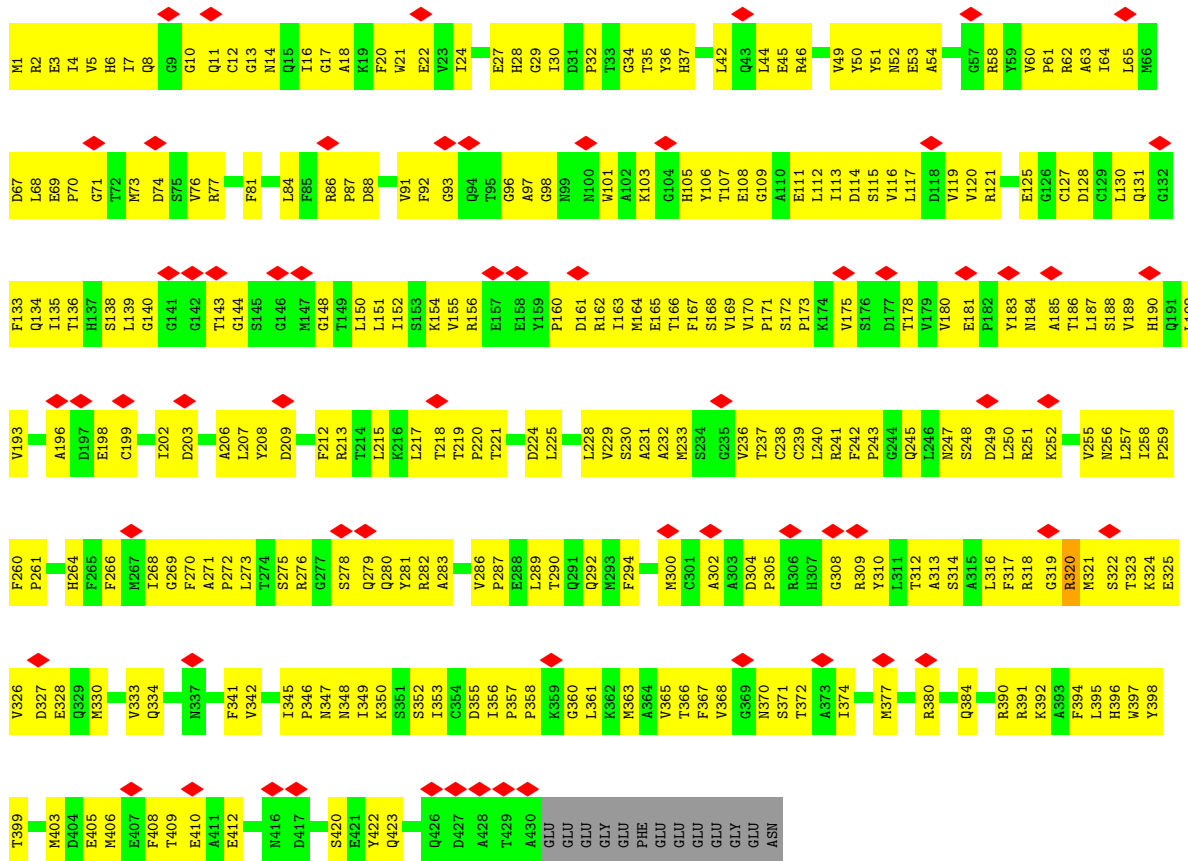


• Molecule 45: Tubulin beta chain

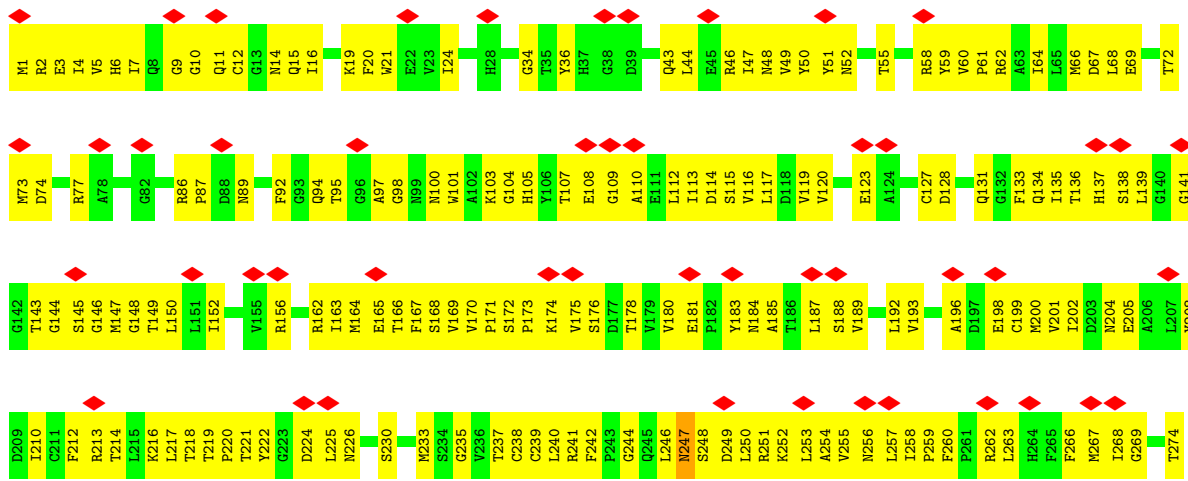




• Molecule 45: Tubulin beta chain

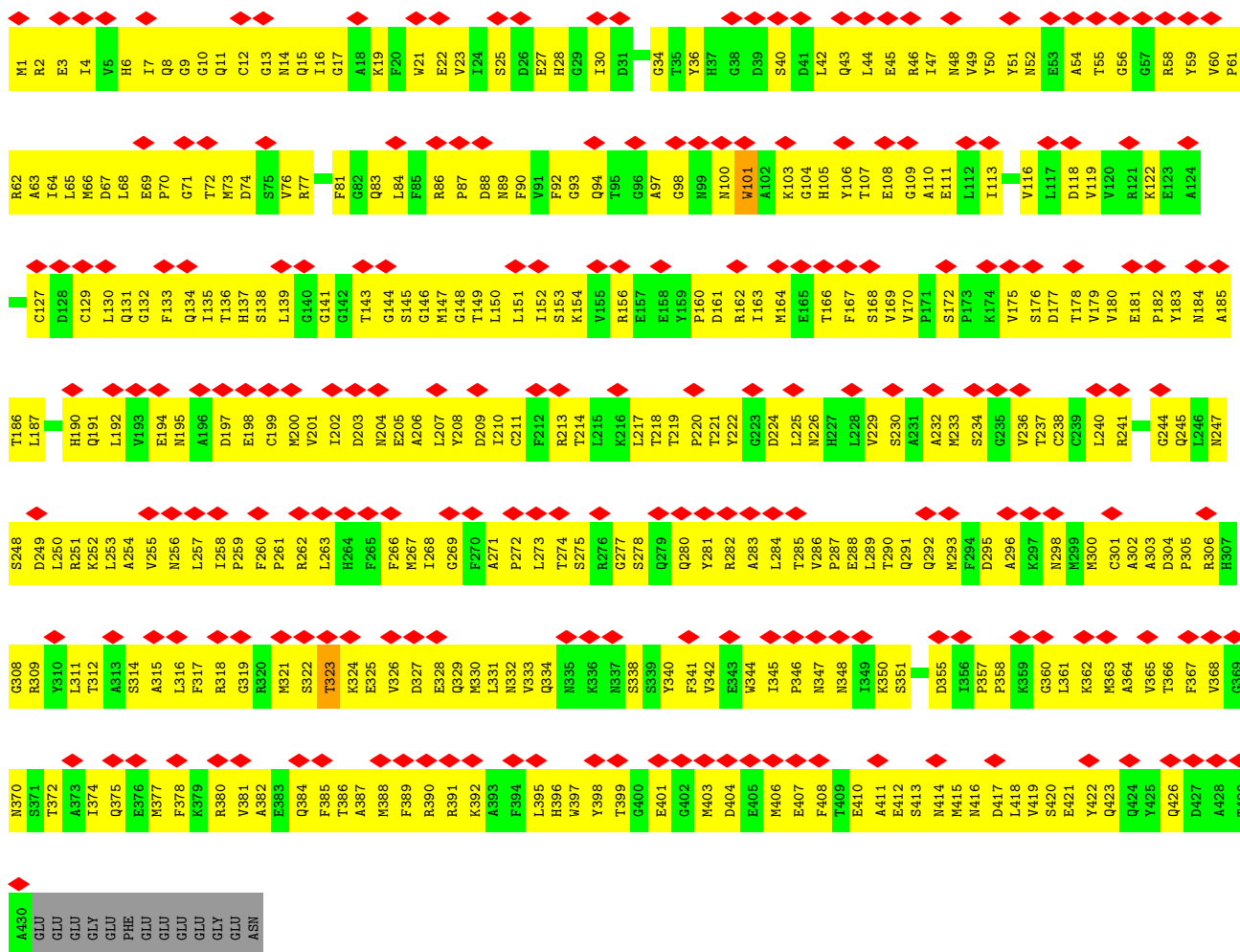


• Molecule 45: Tubulin beta chain

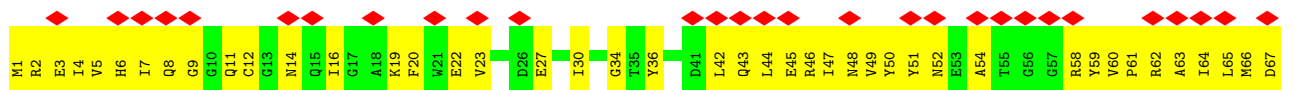


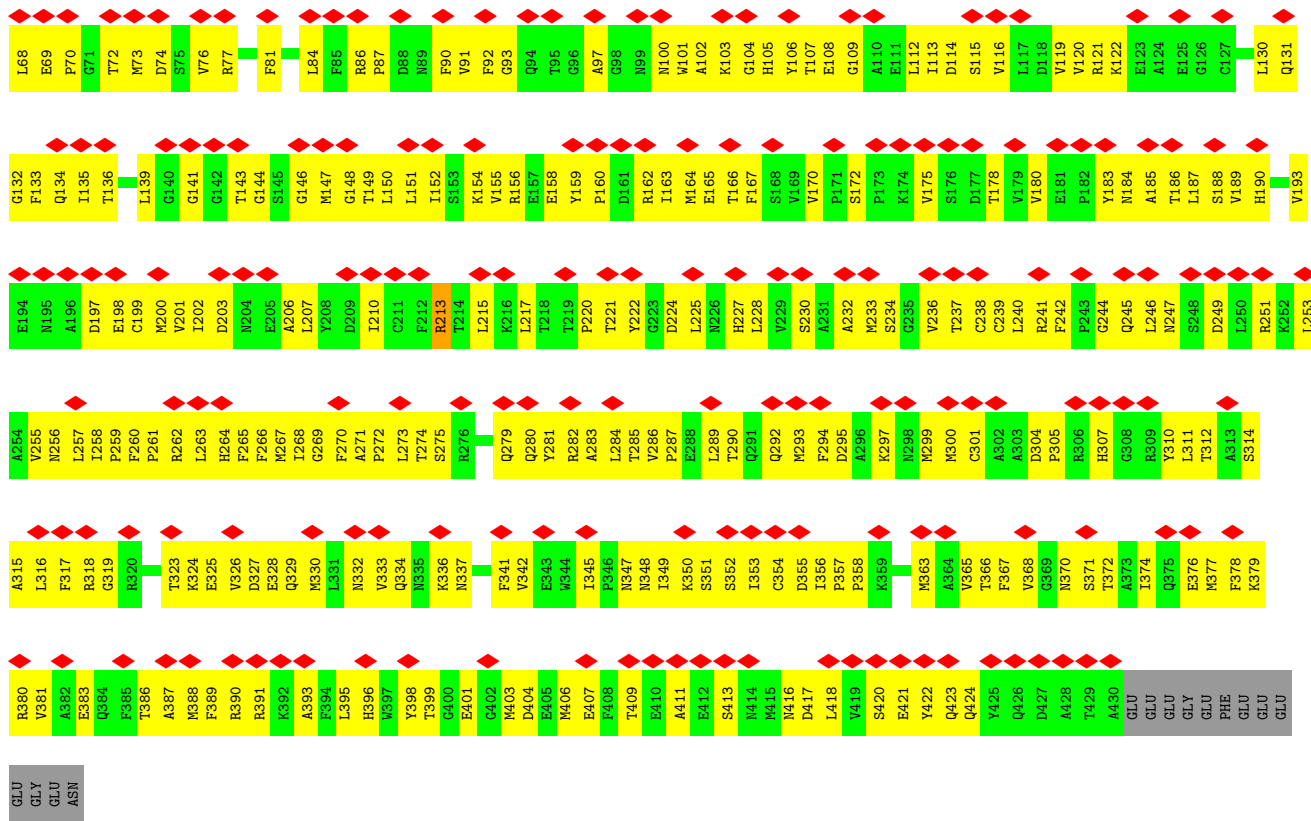


• Molecule 45: Tubulin beta chain

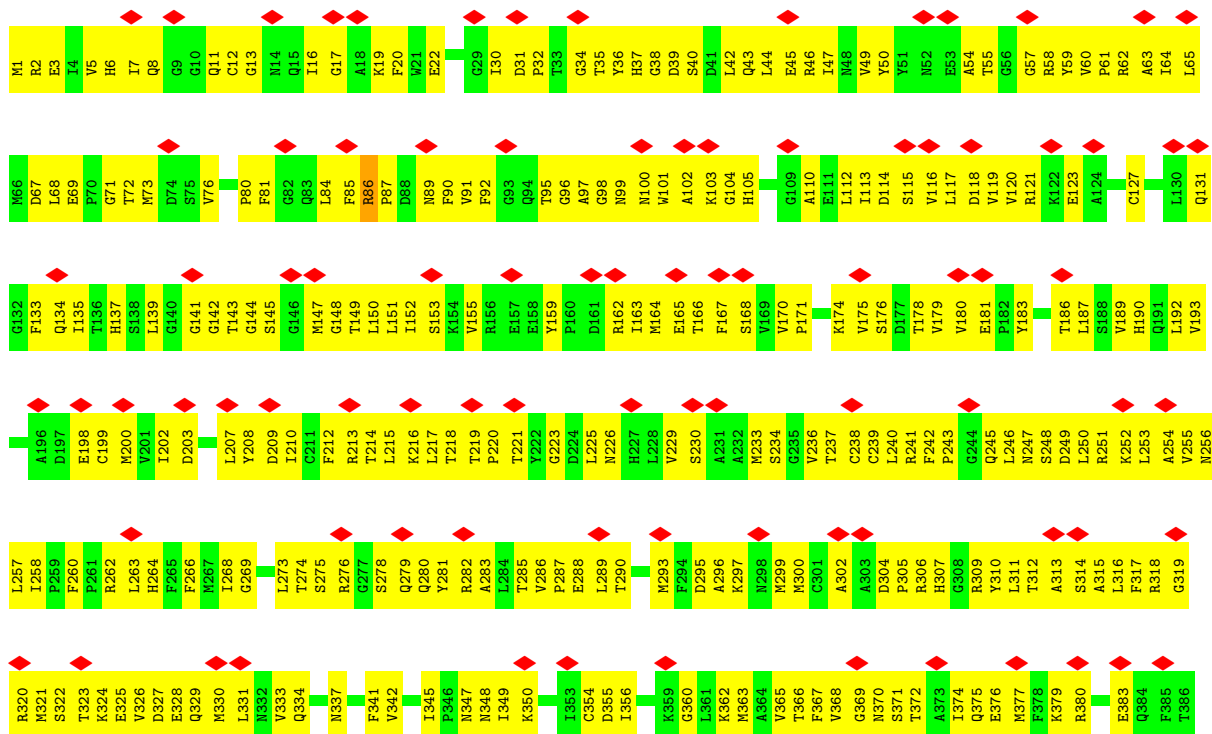
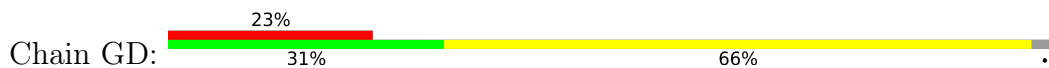


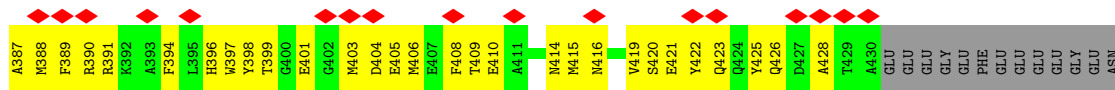
• Molecule 45: Tubulin beta chain



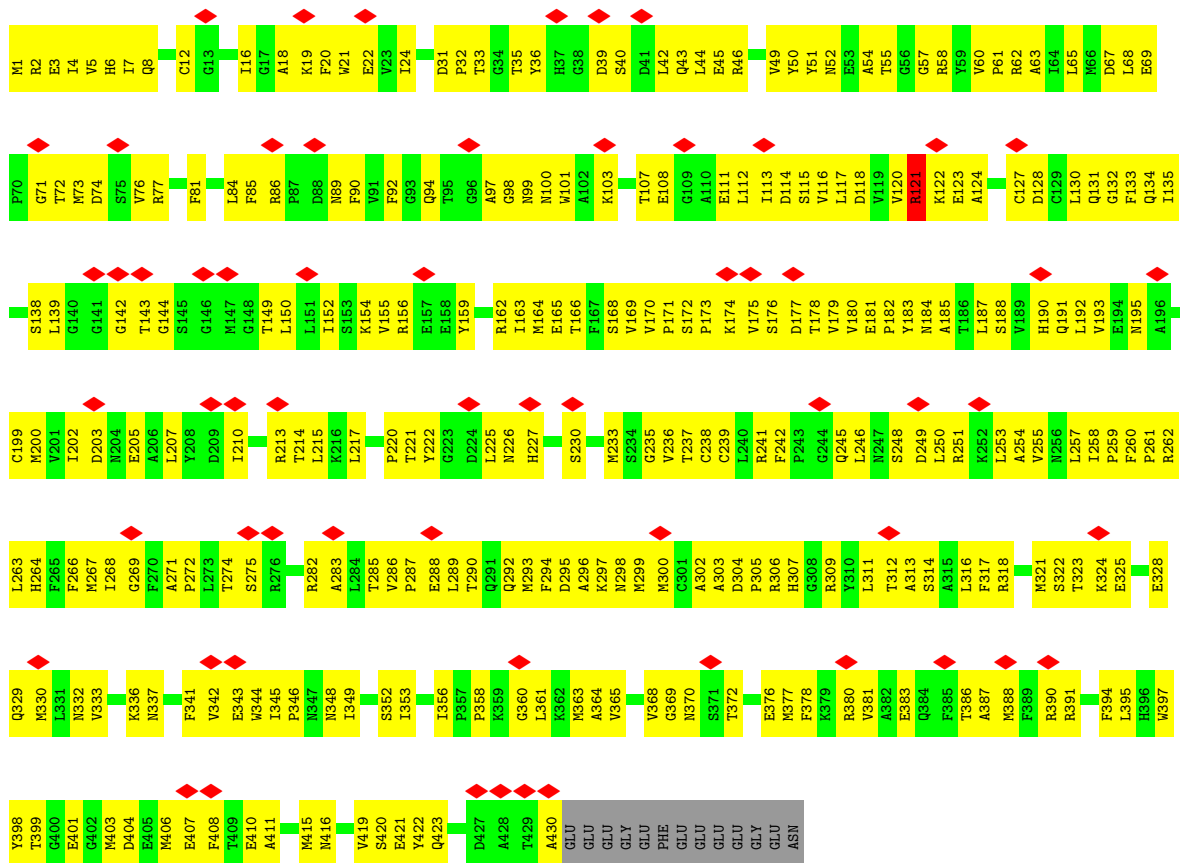


• Molecule 45: Tubulin beta chain

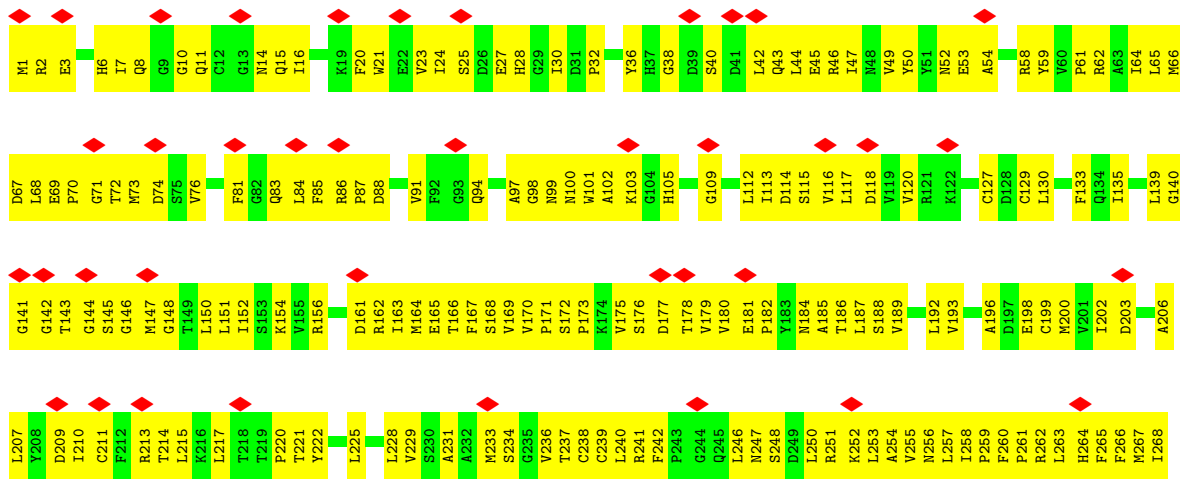
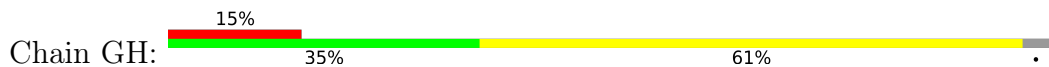


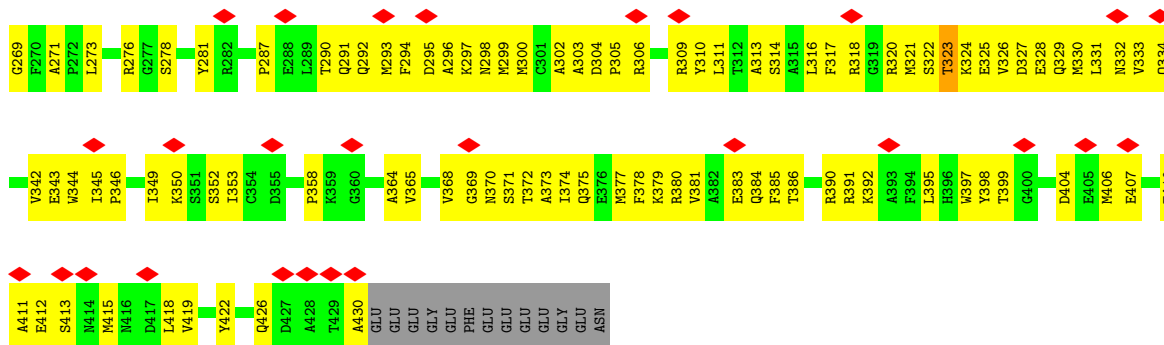


• Molecule 45: Tubulin beta chain

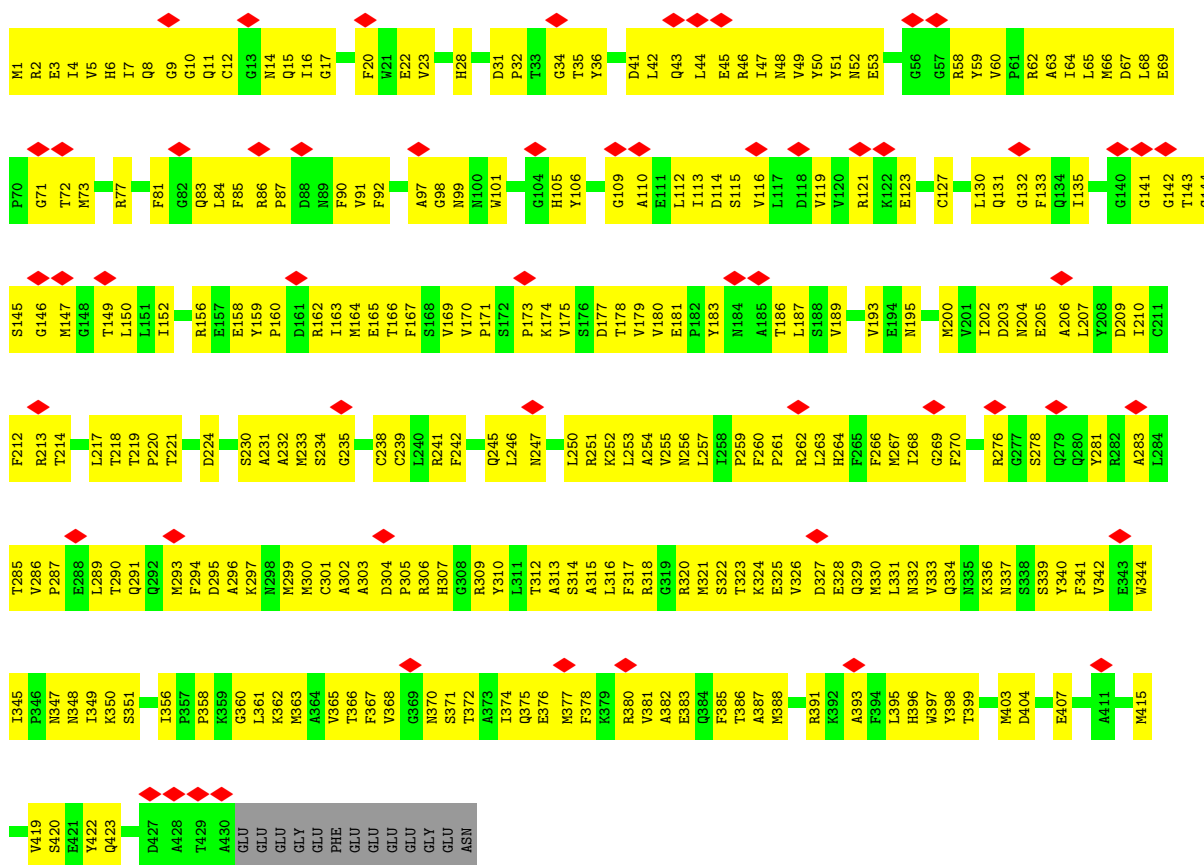


• Molecule 45: Tubulin beta chain

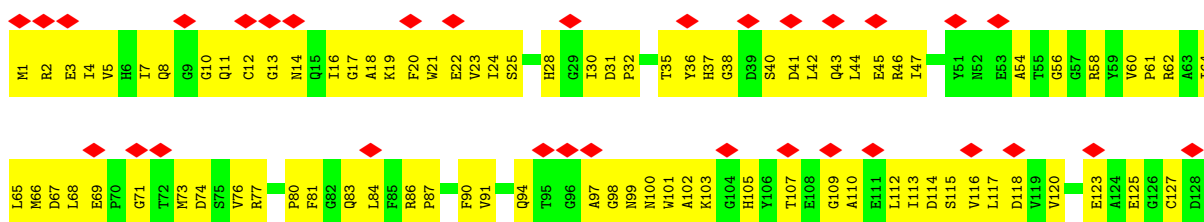


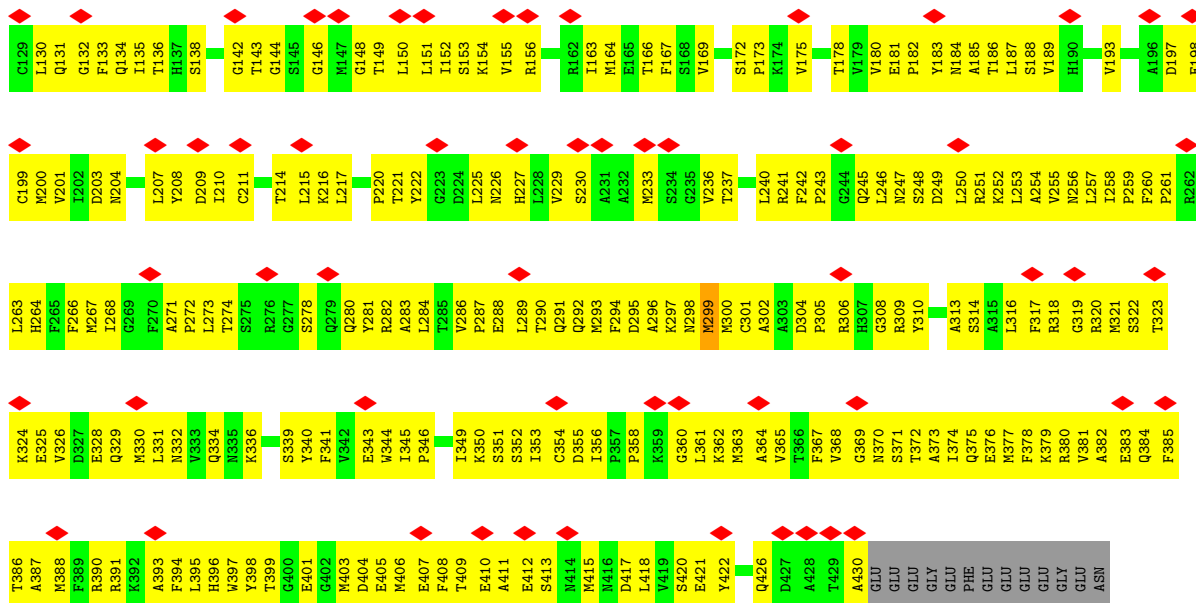


• Molecule 45: Tubulin beta chain

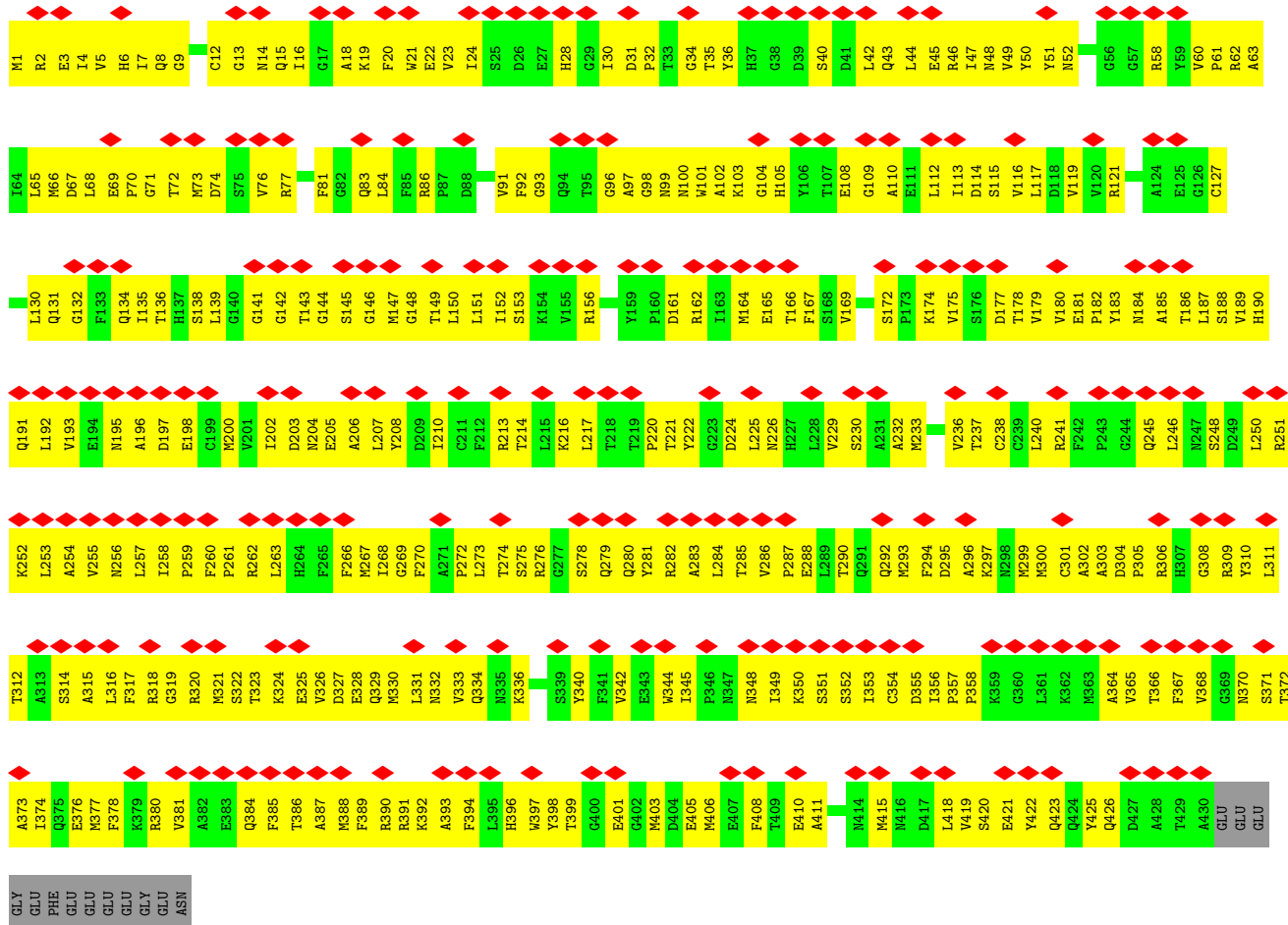


• Molecule 45: Tubulin beta chain



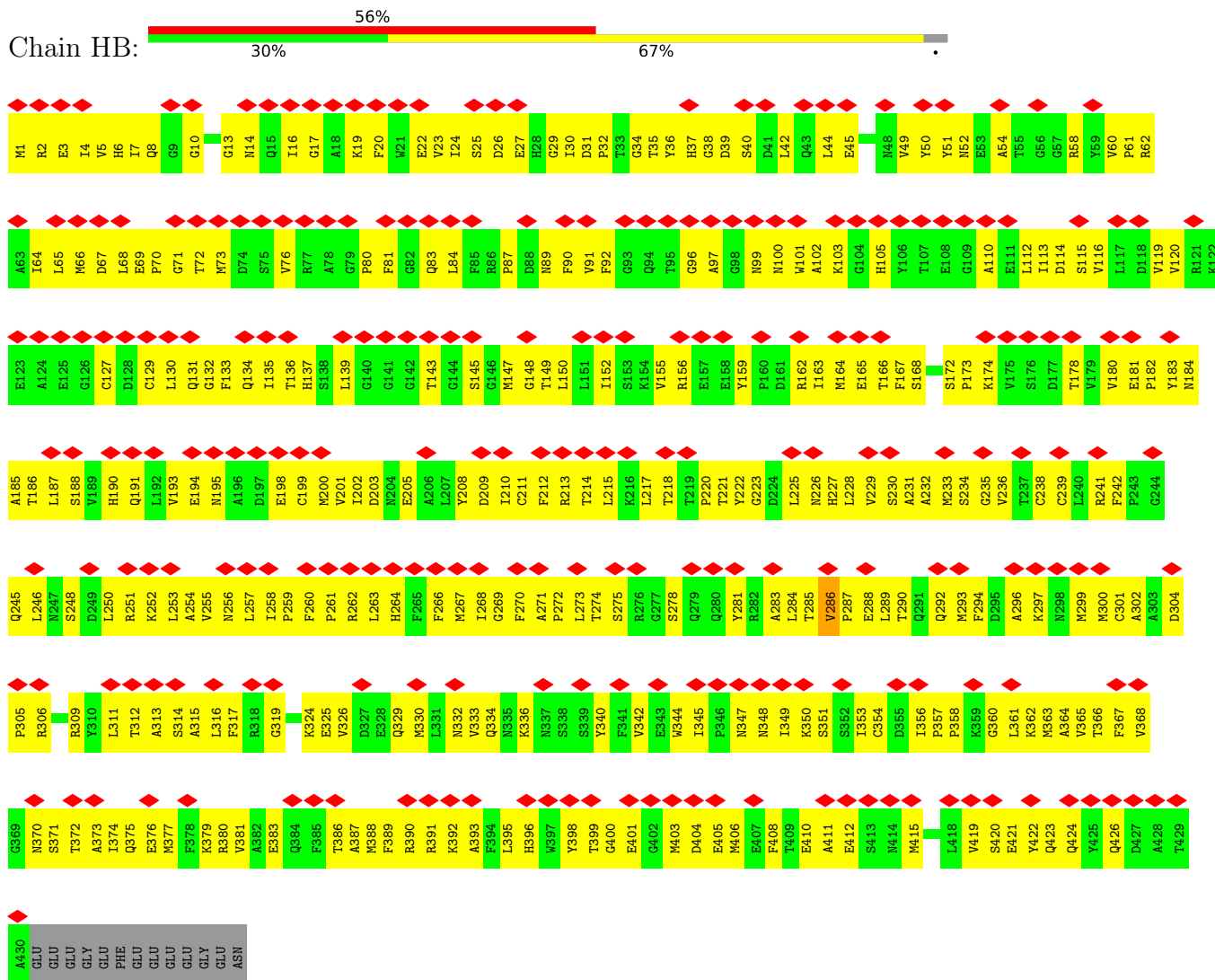


• Molecule 45: Tubulin beta chain

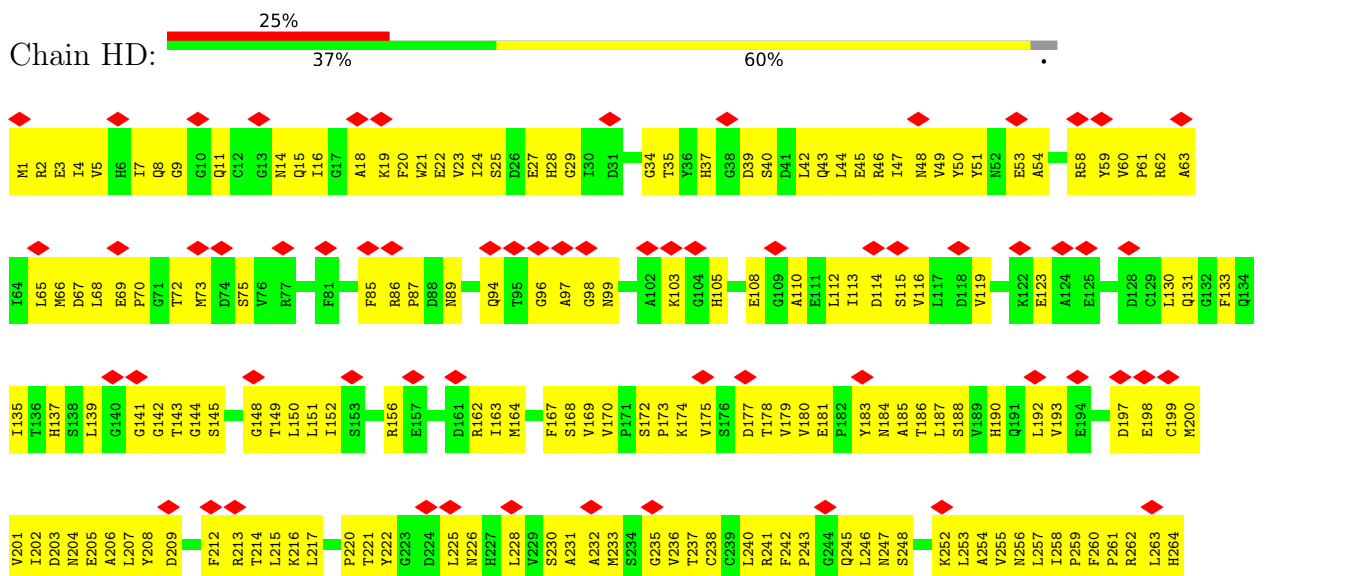




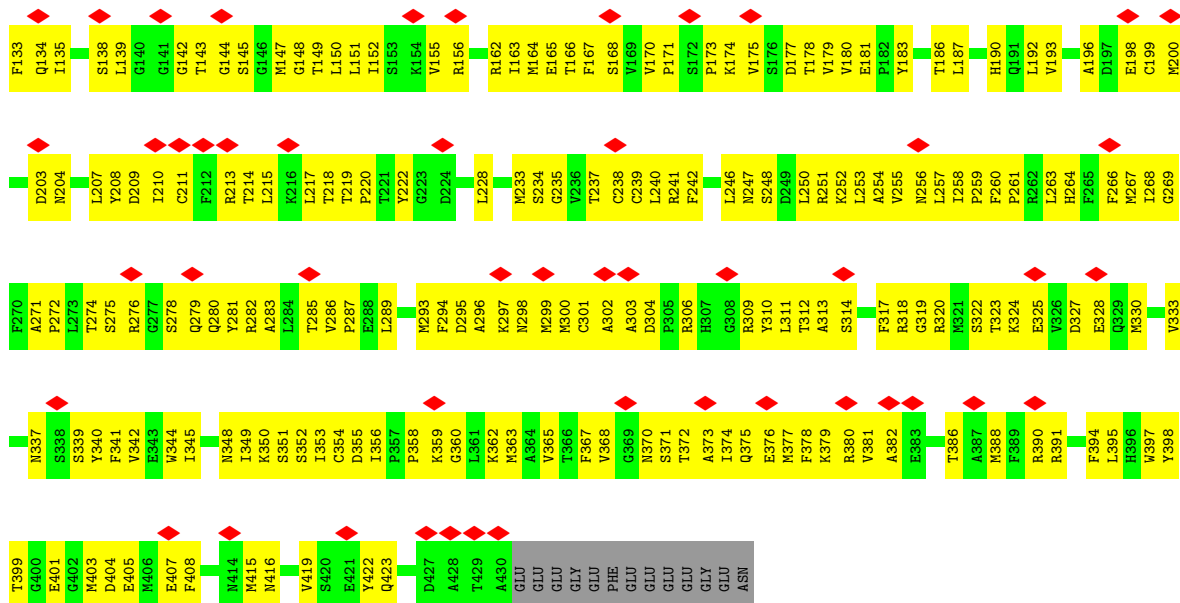
• Molecule 45: Tubulin beta chain



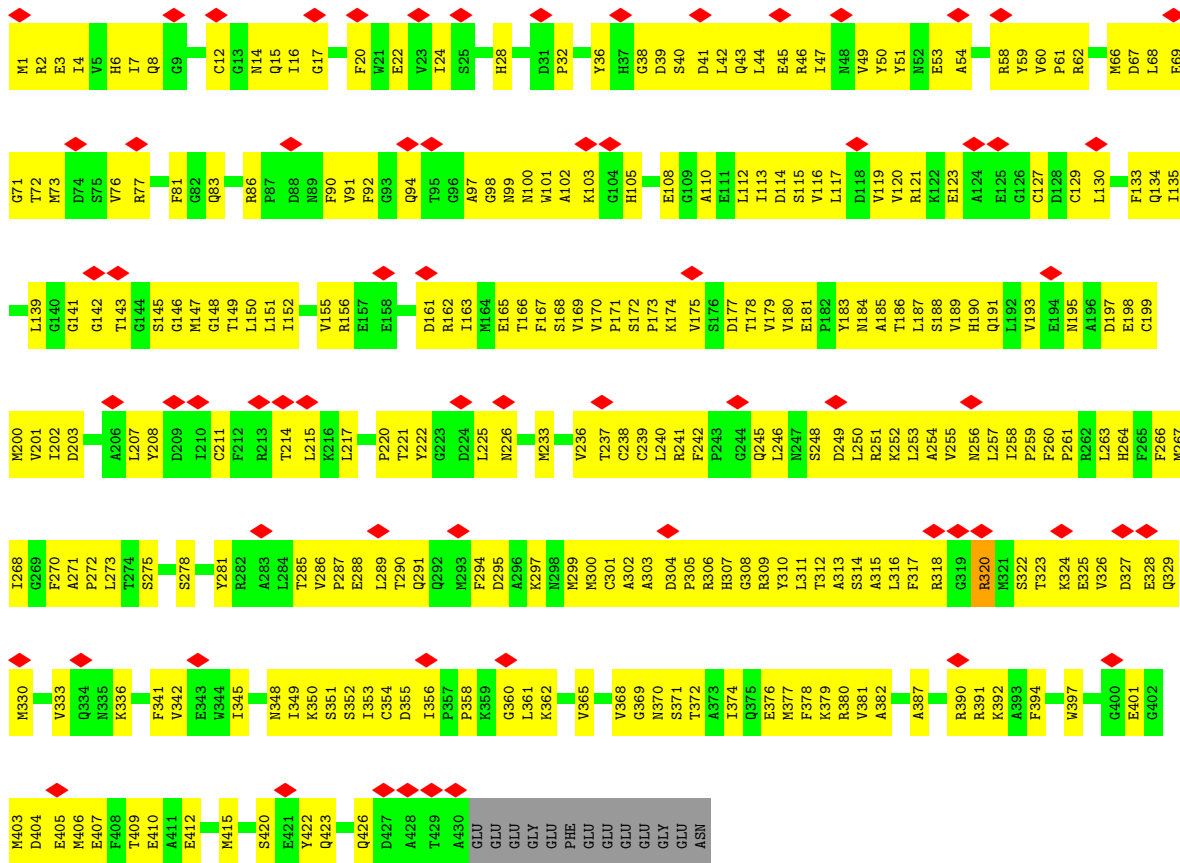
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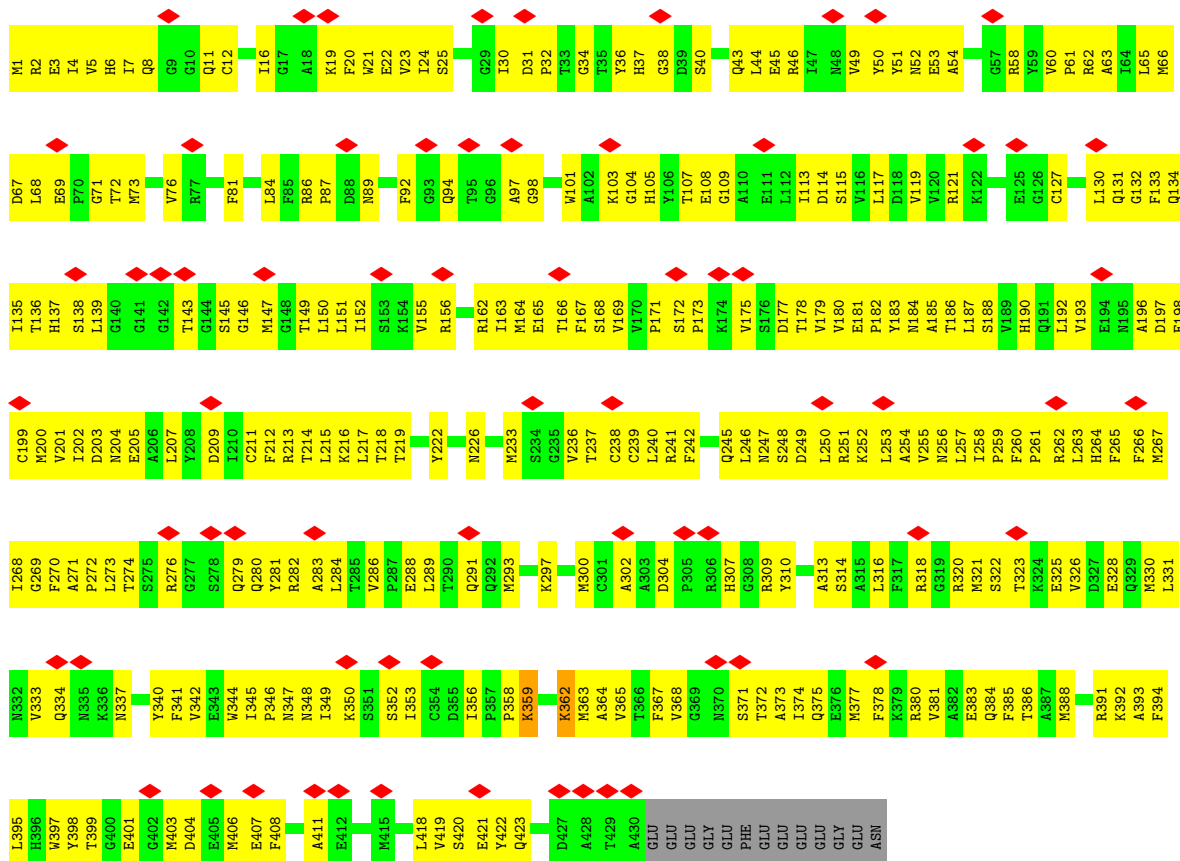


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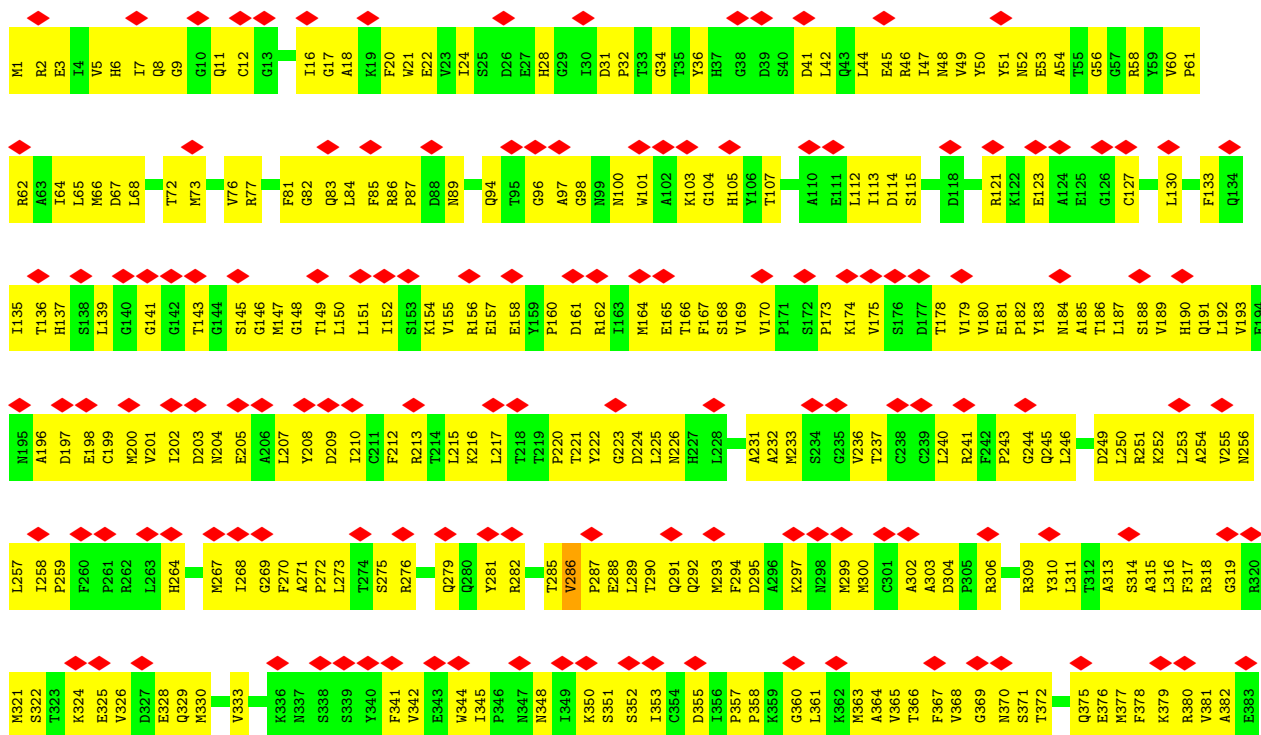


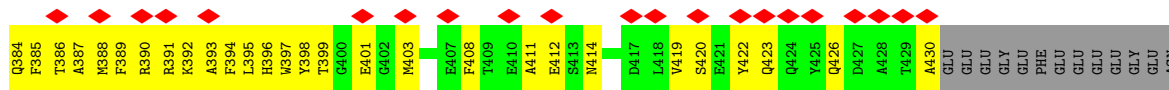
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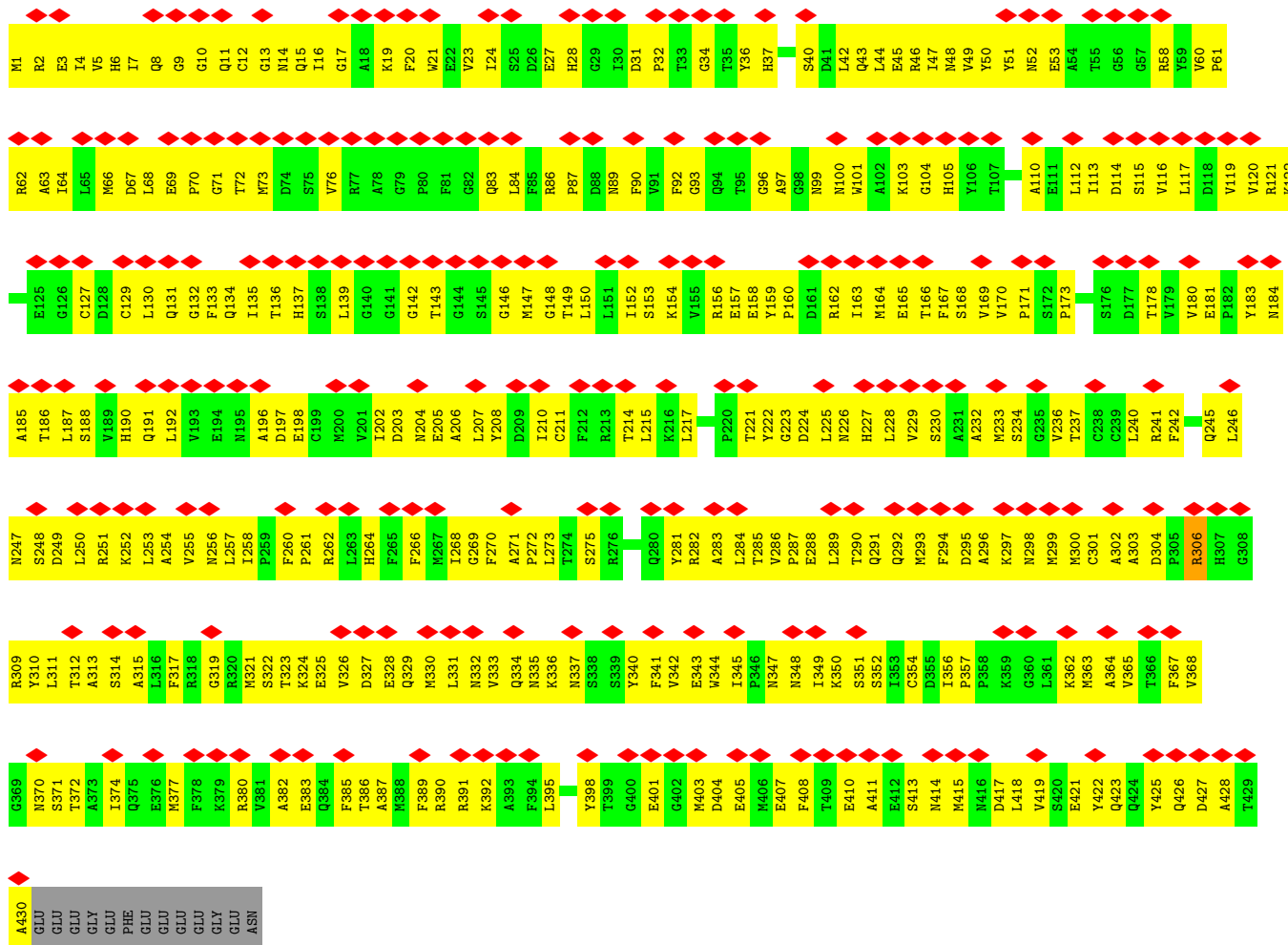


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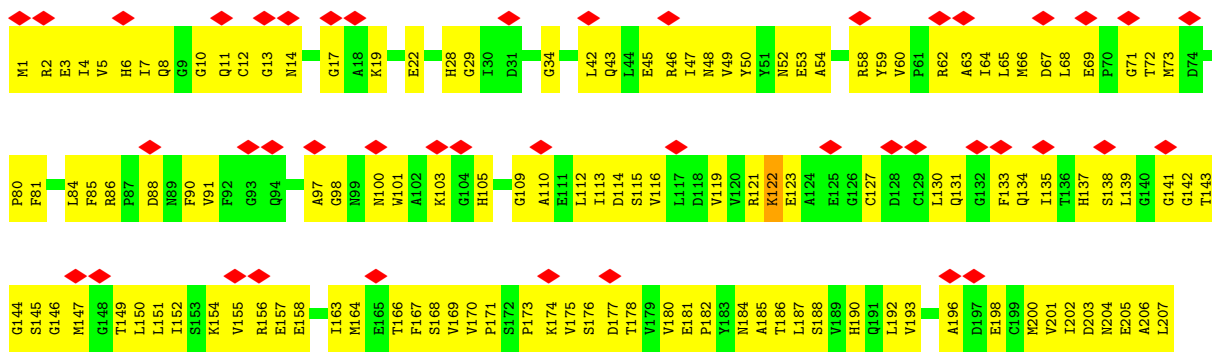


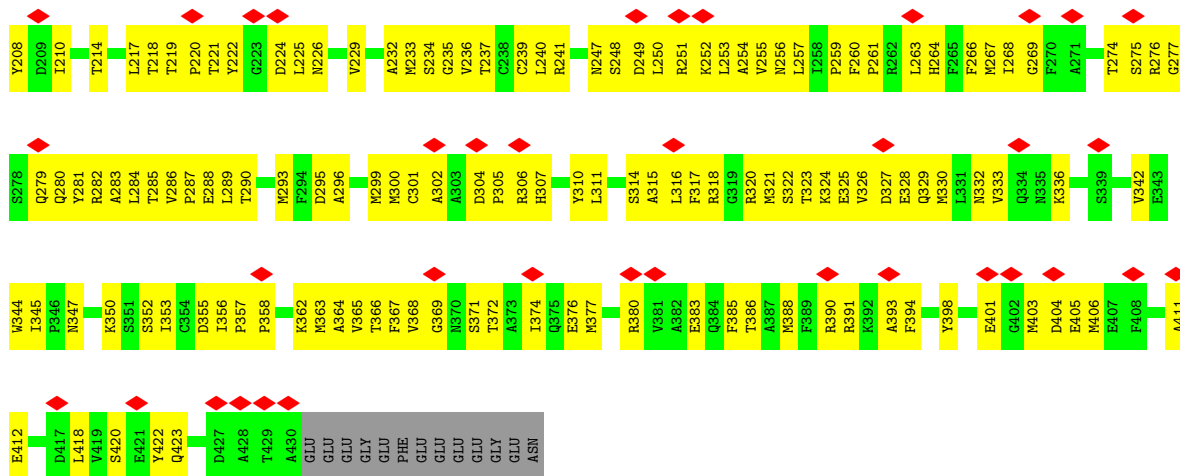


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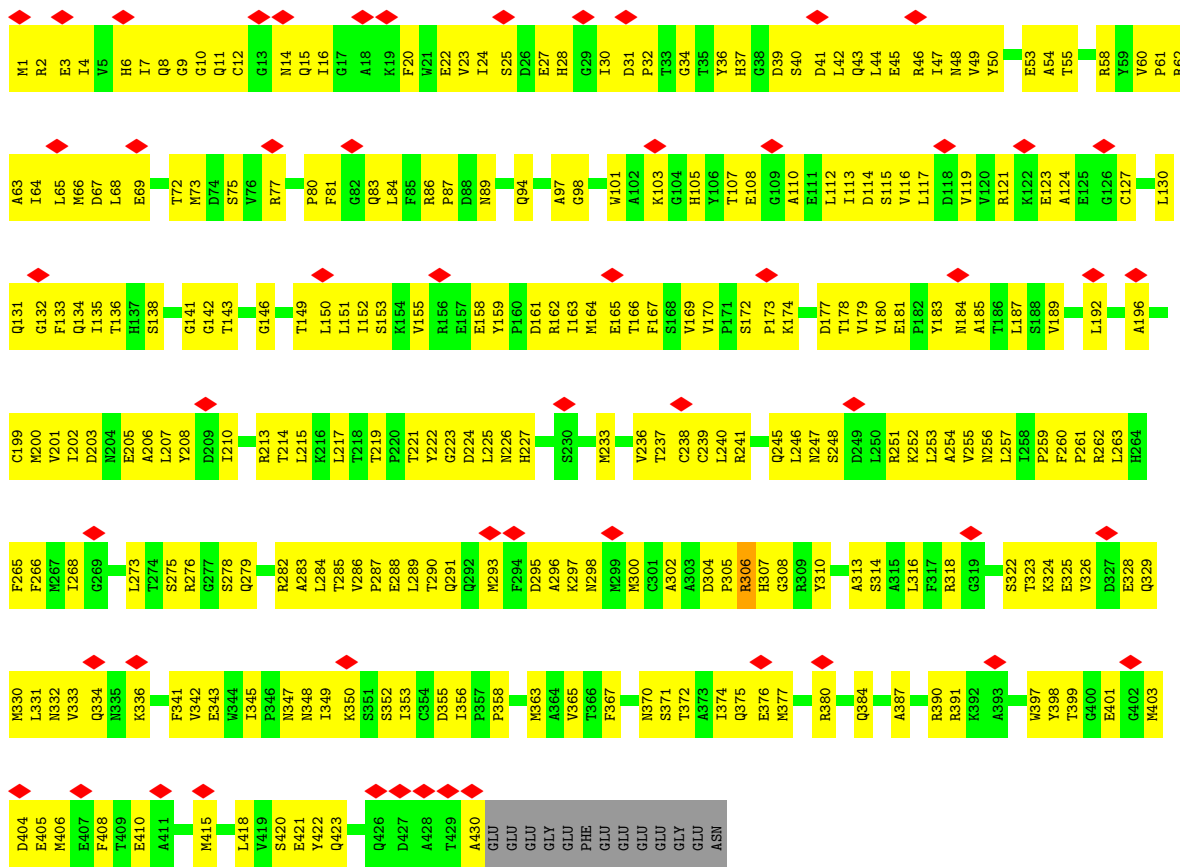


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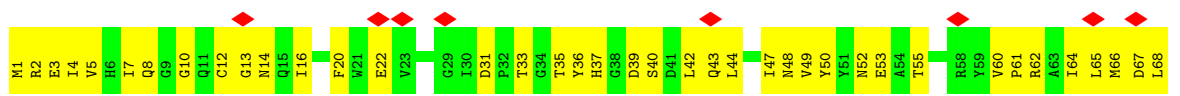


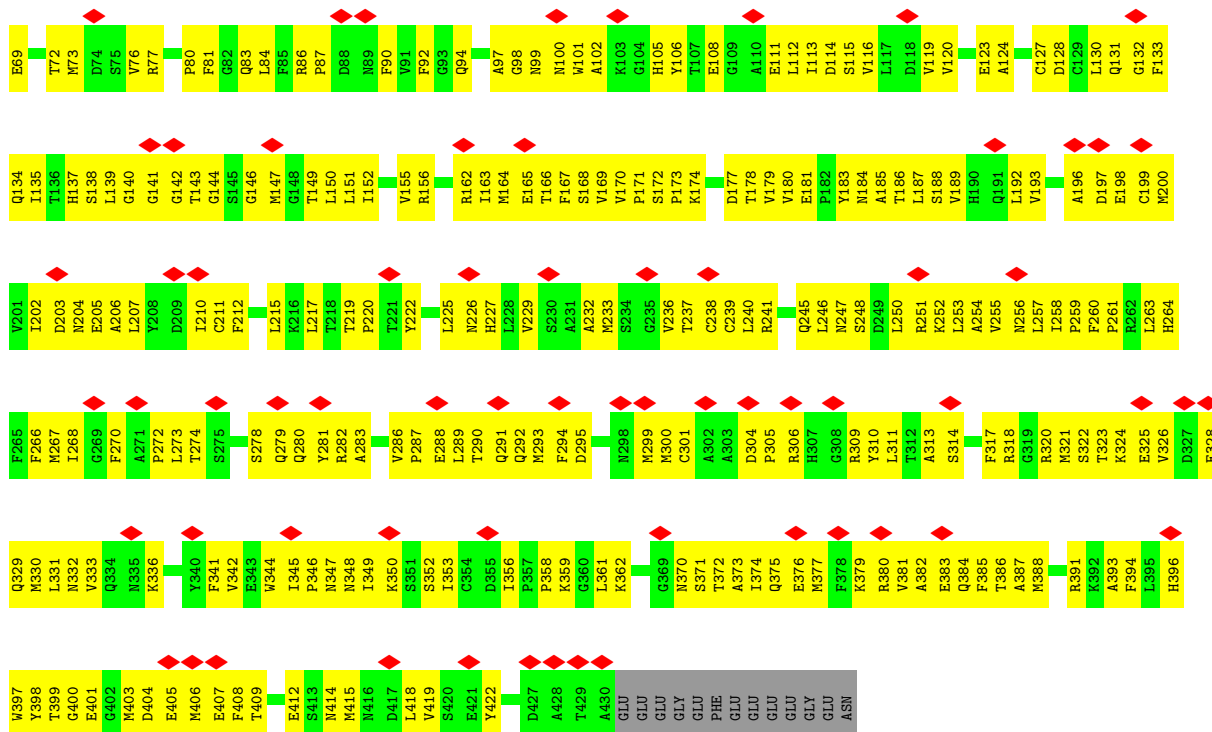


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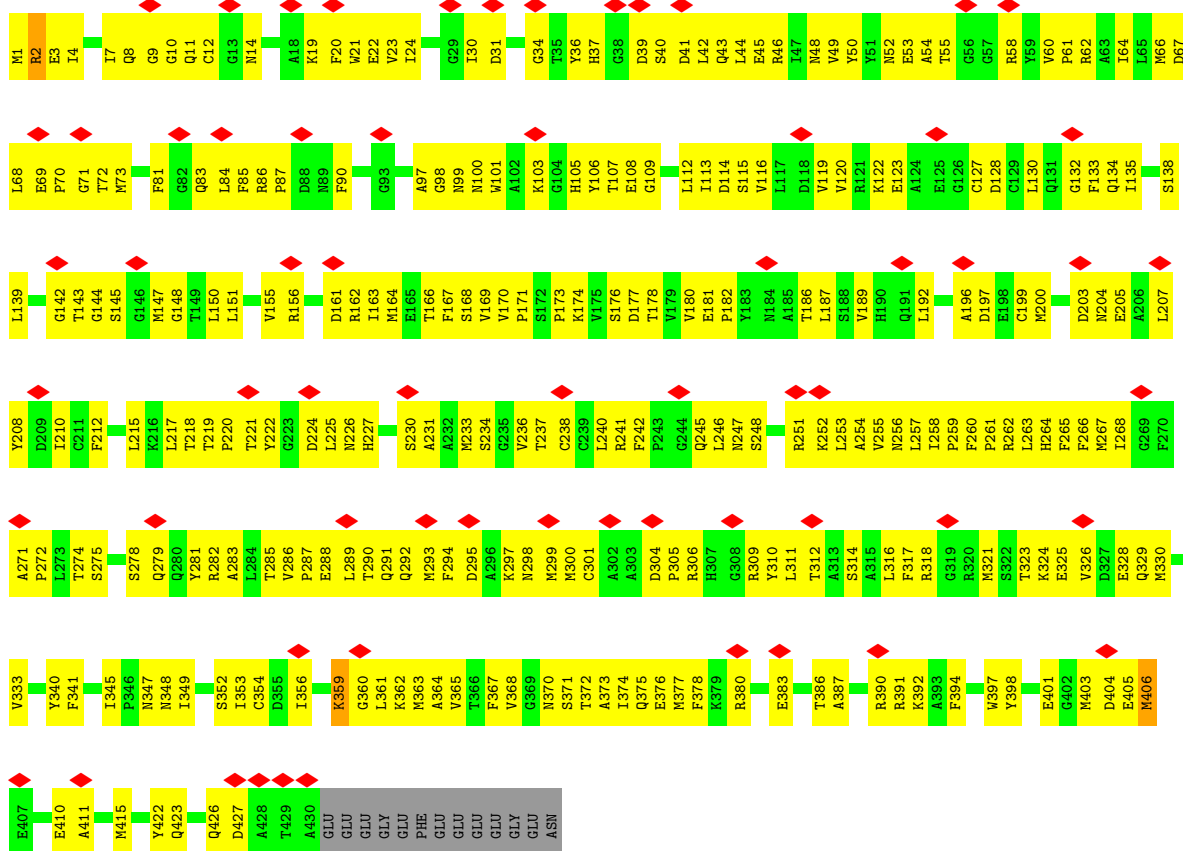


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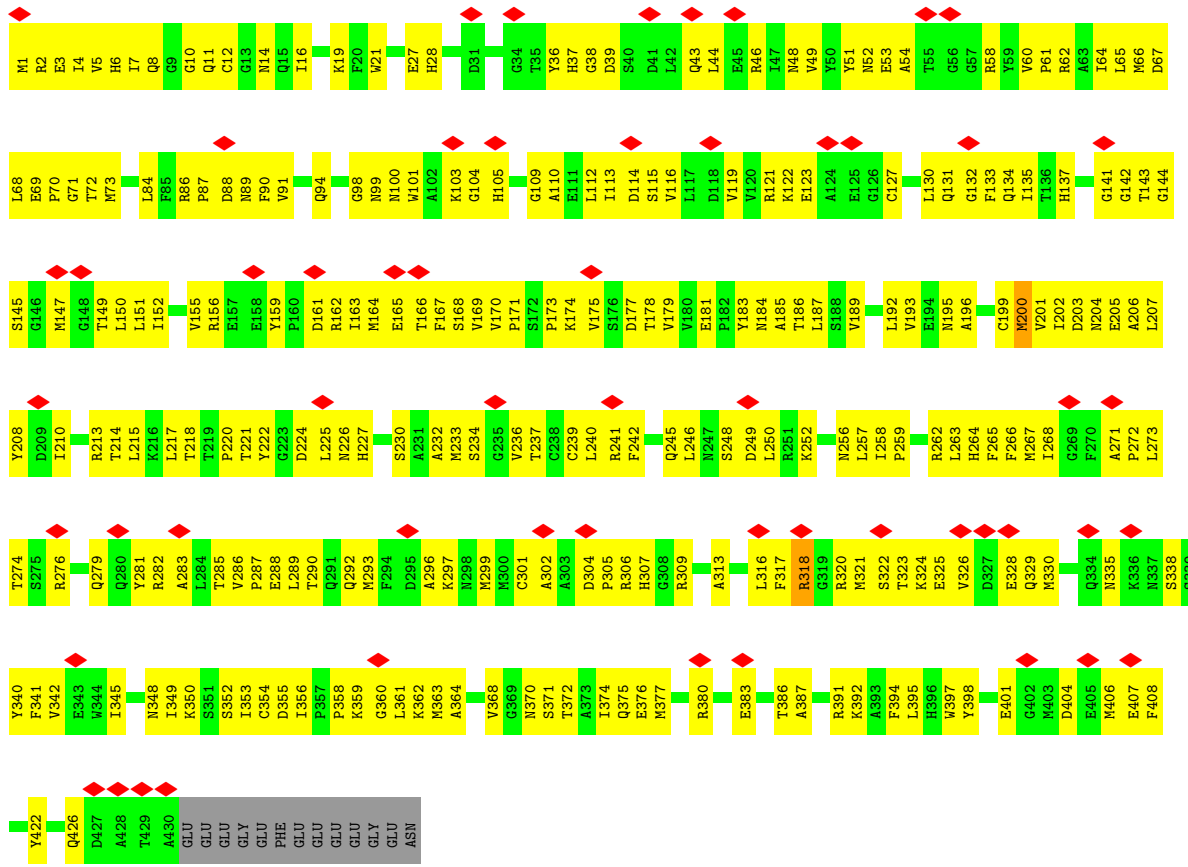




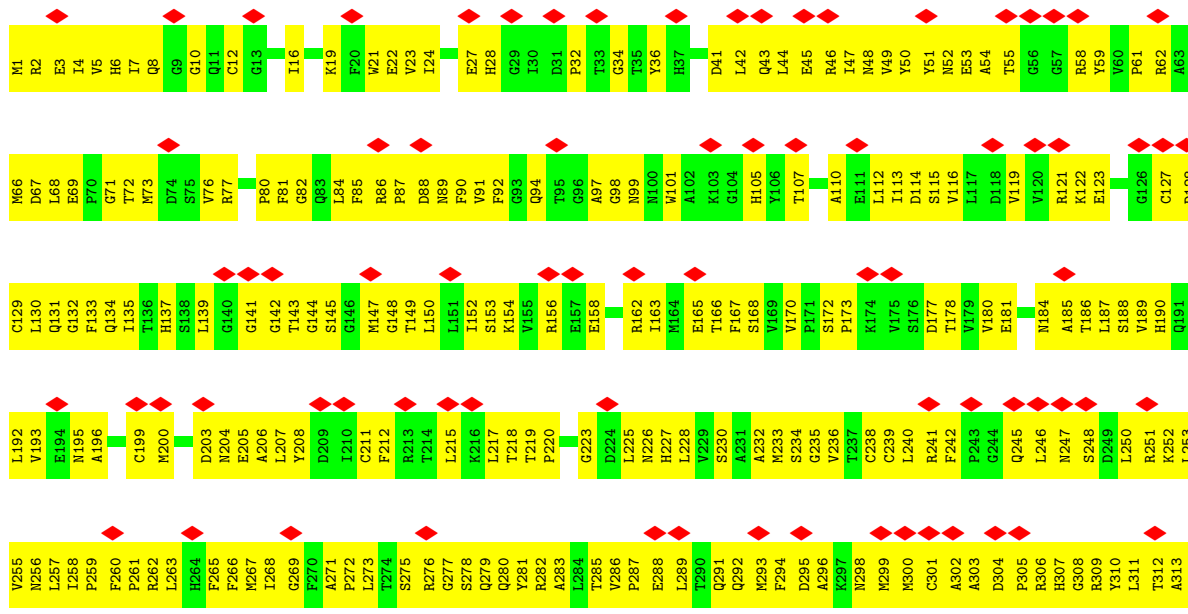
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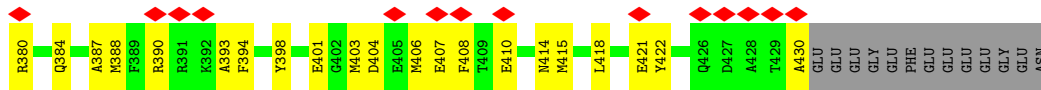
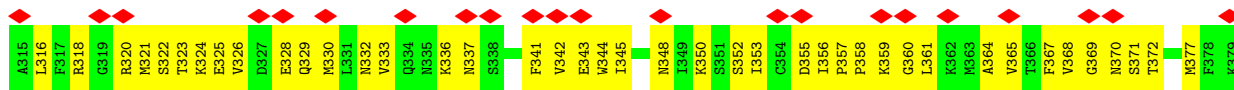
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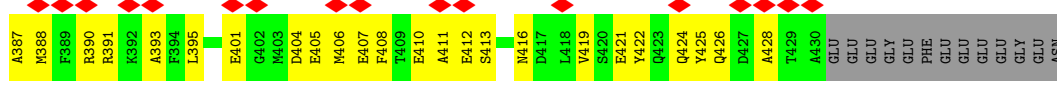
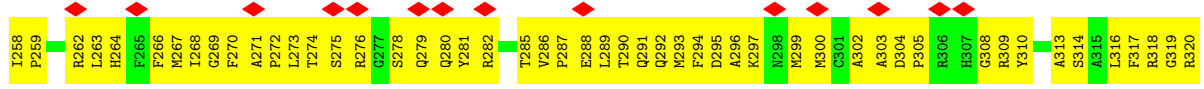
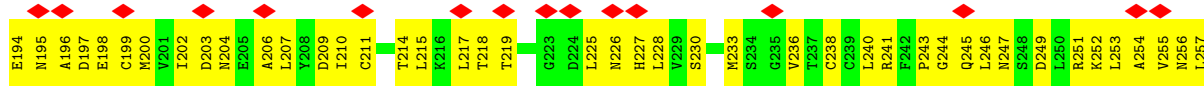
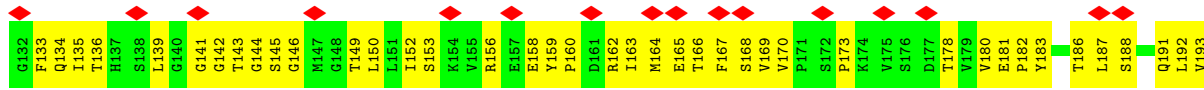
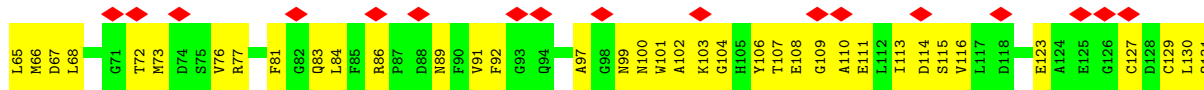
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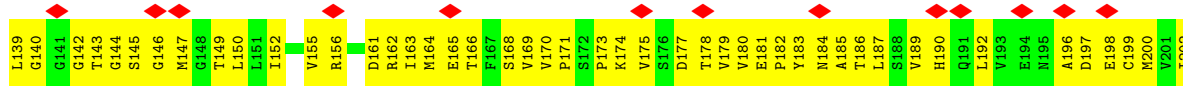
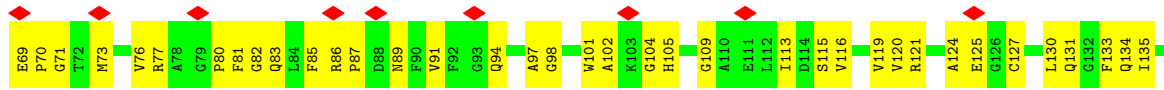
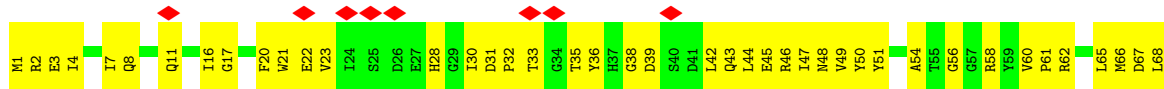


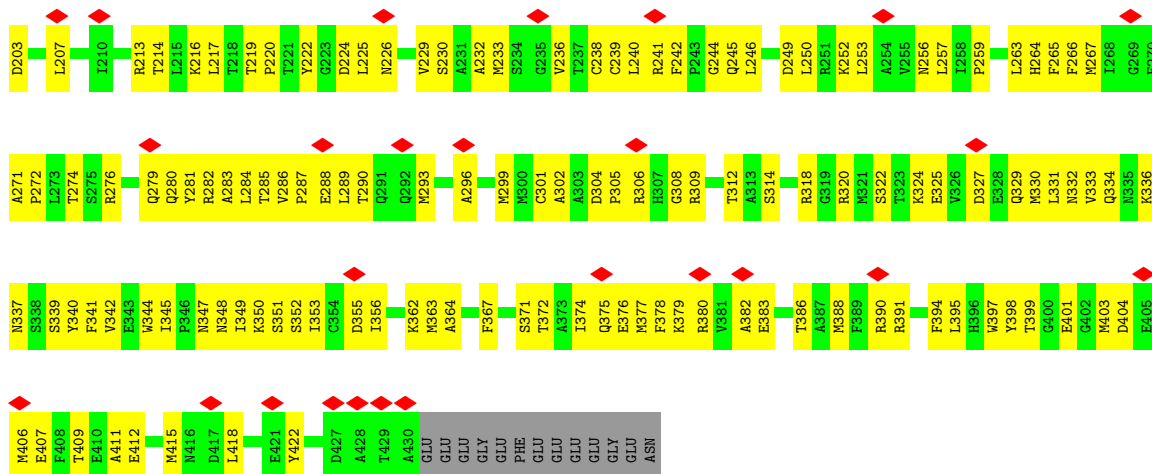


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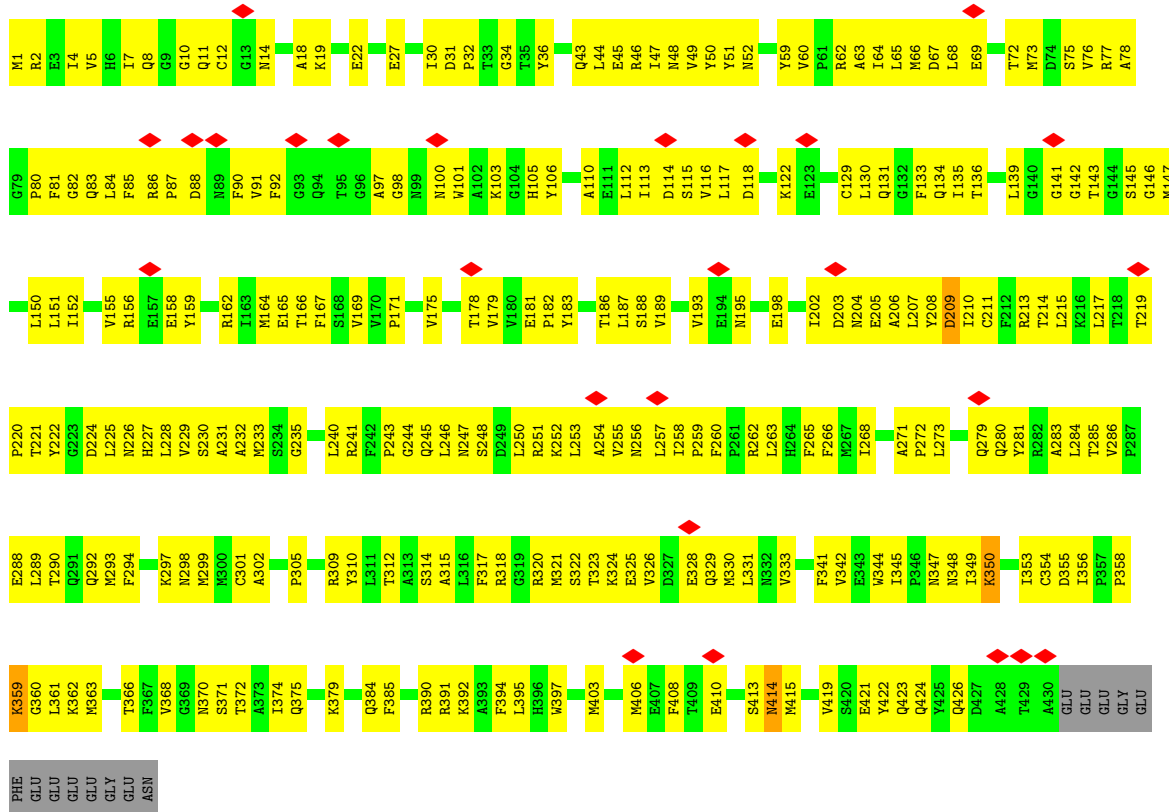


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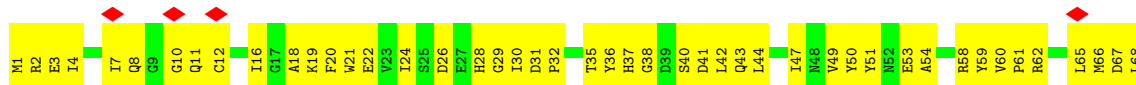
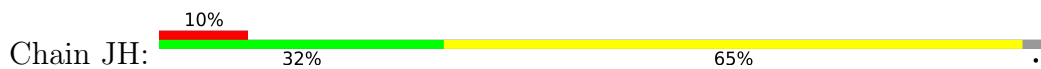


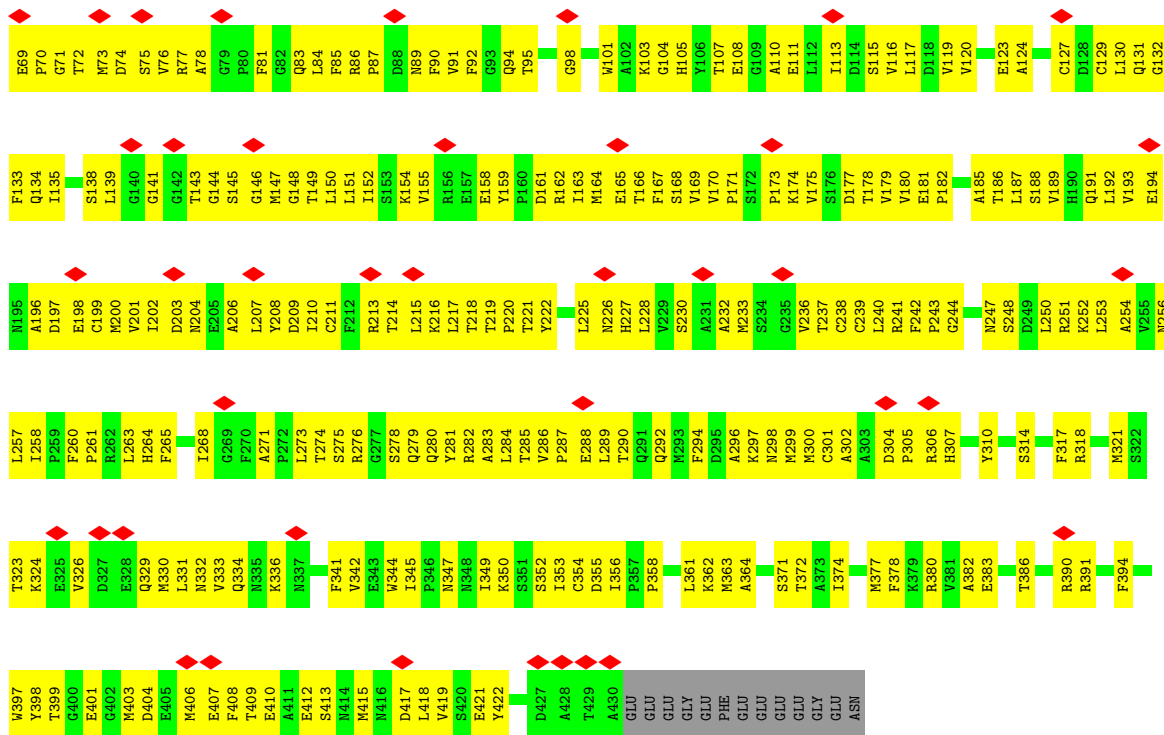


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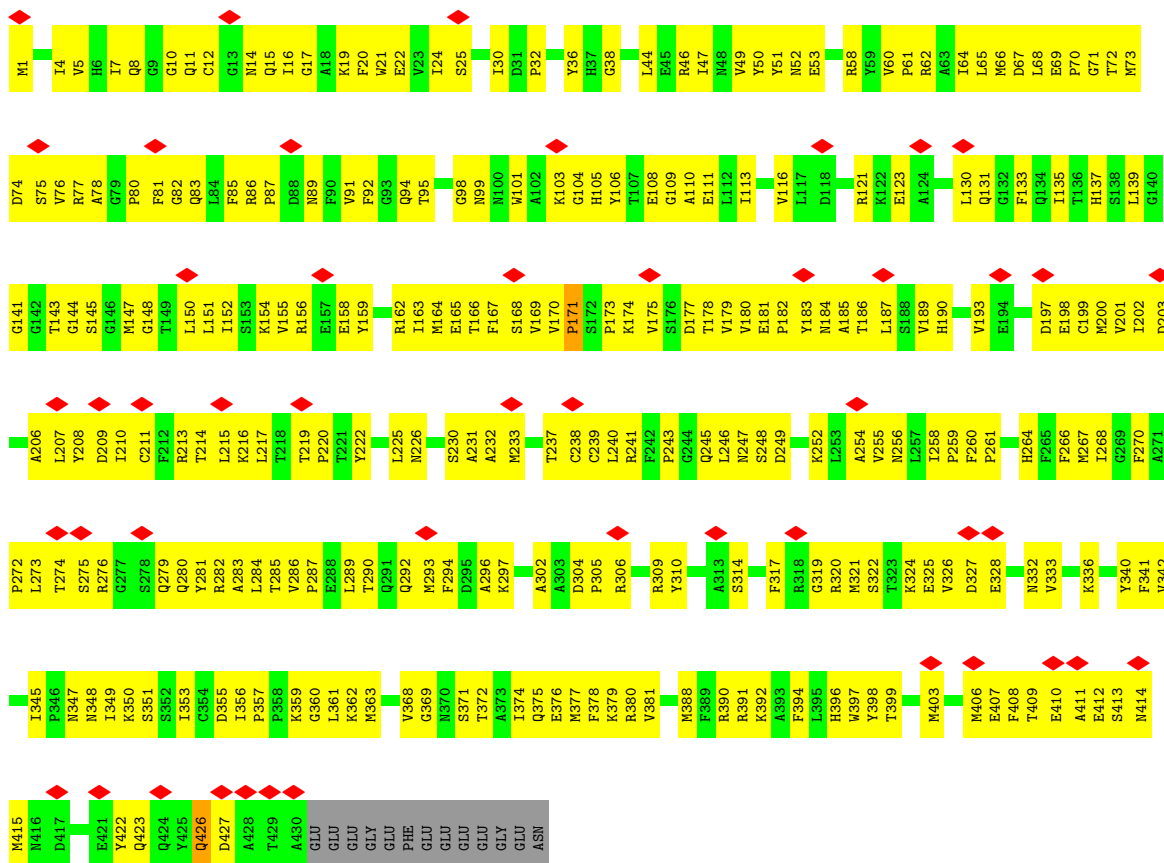


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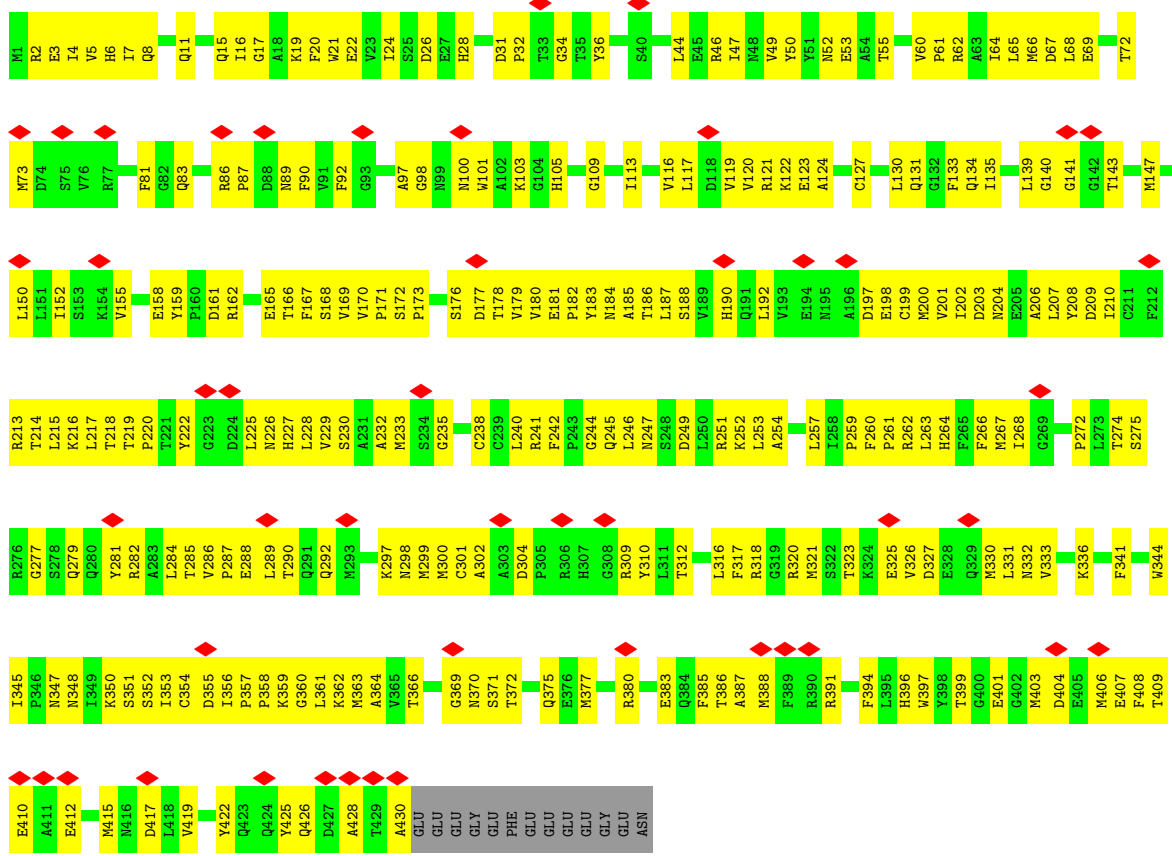




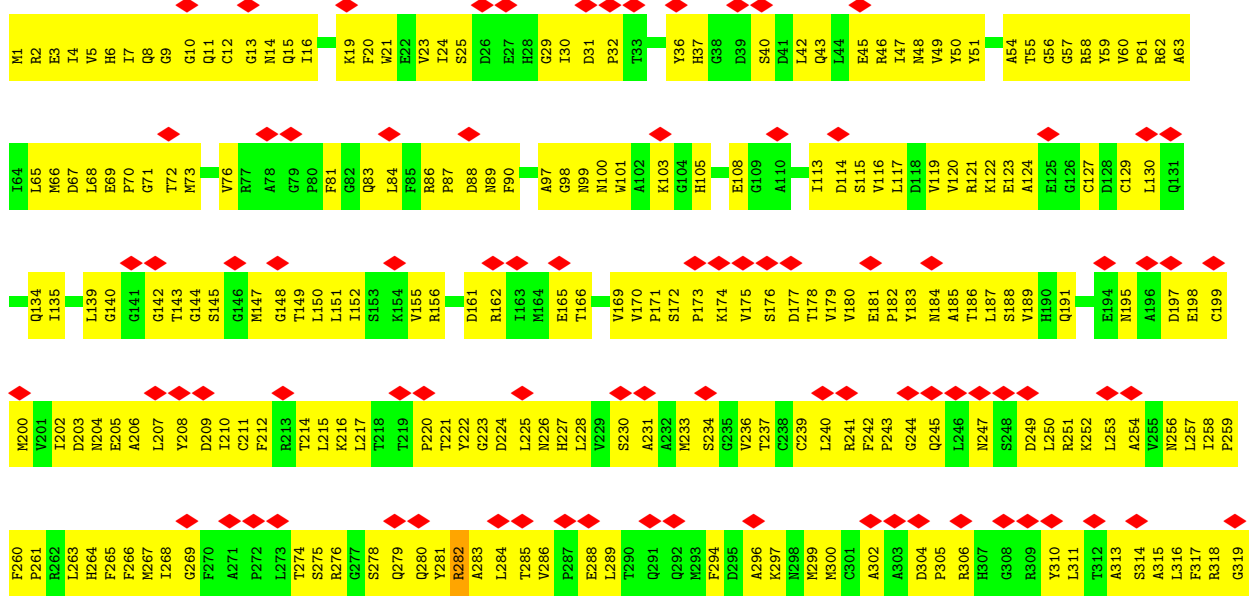
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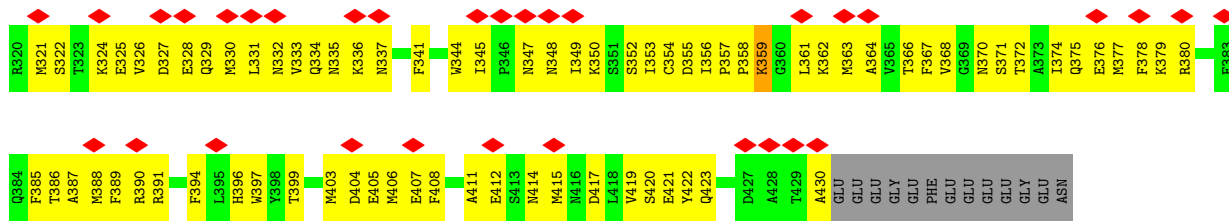


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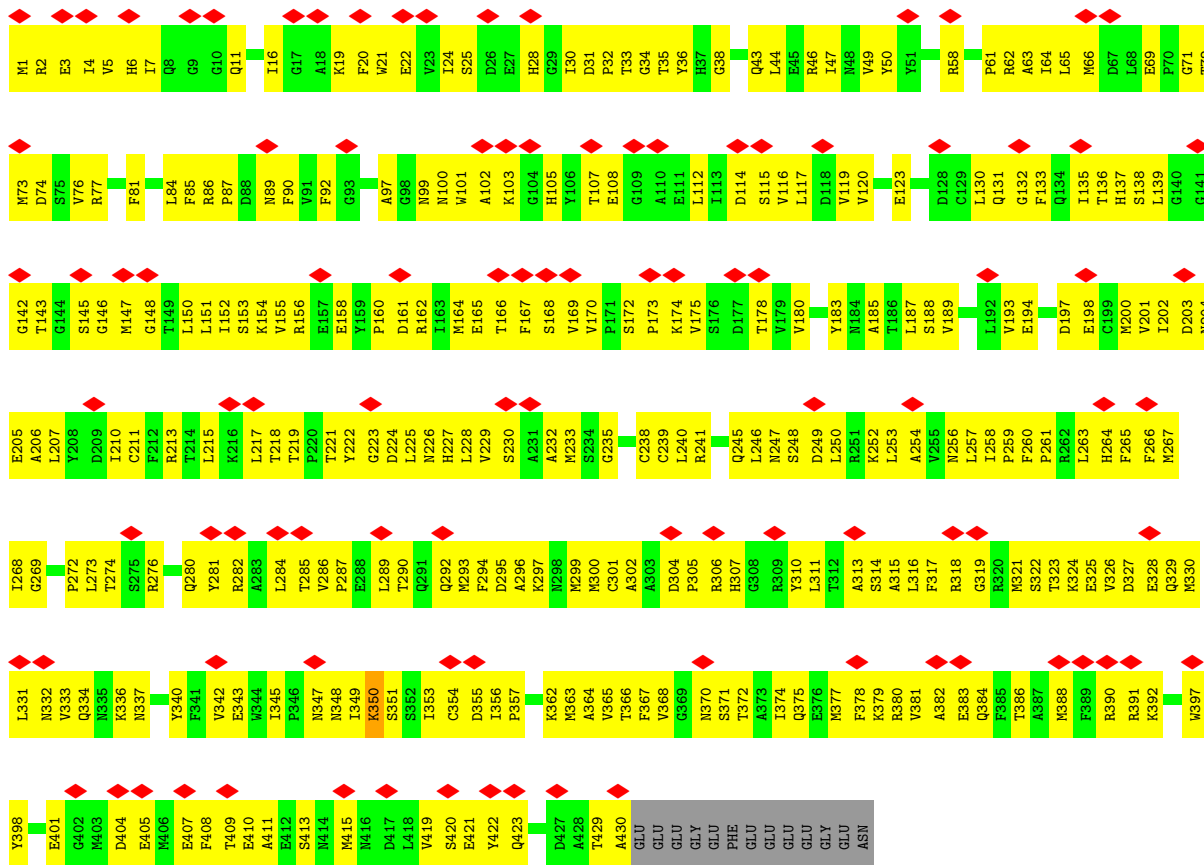
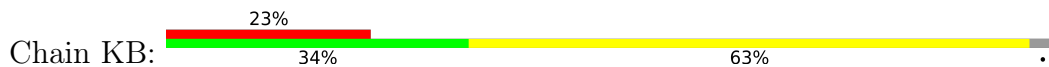


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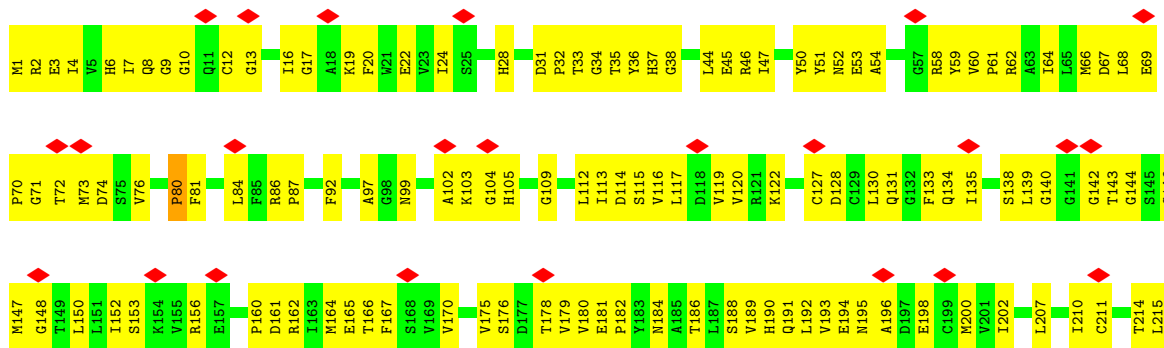
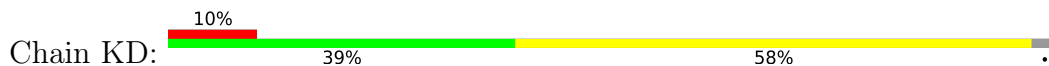


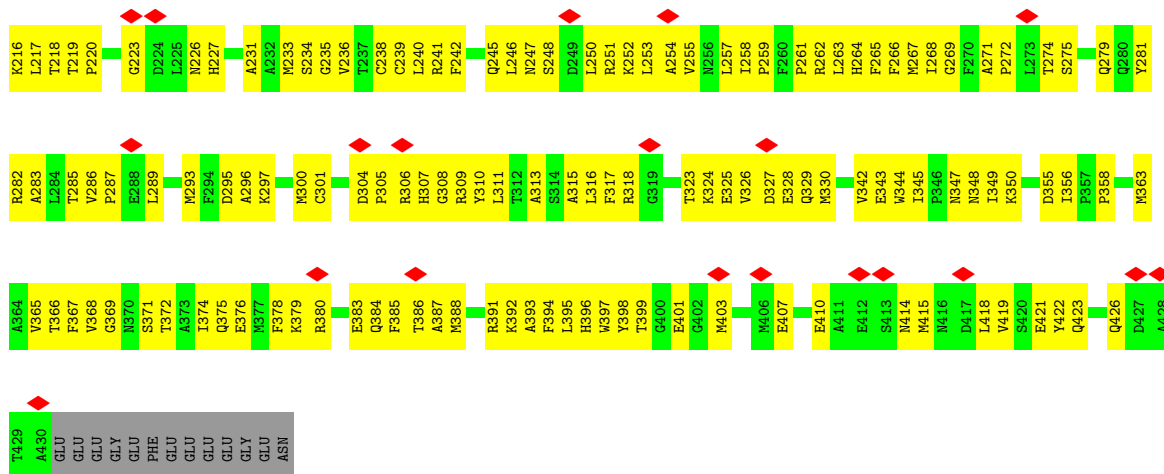


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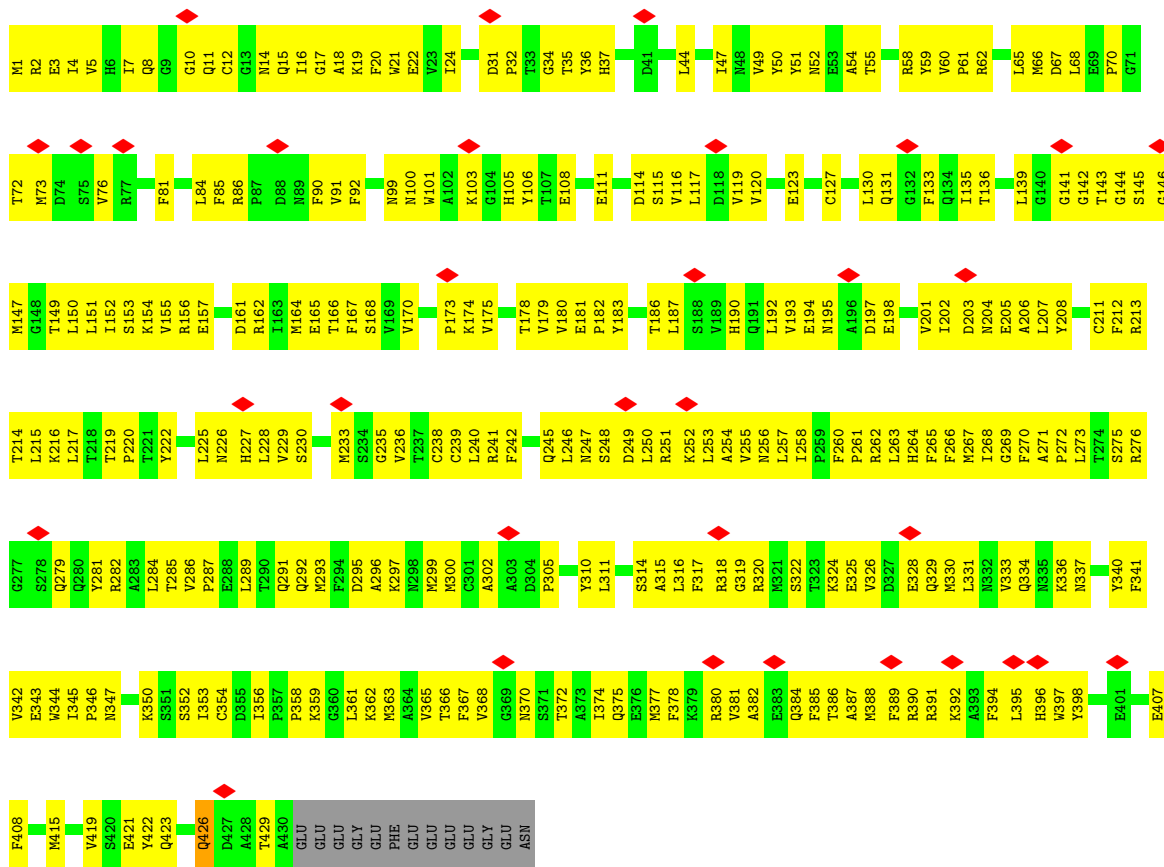


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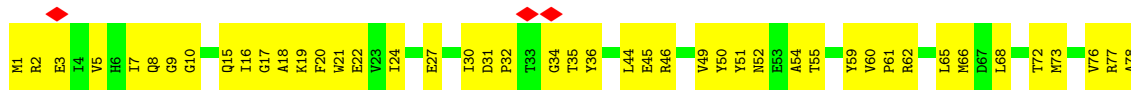


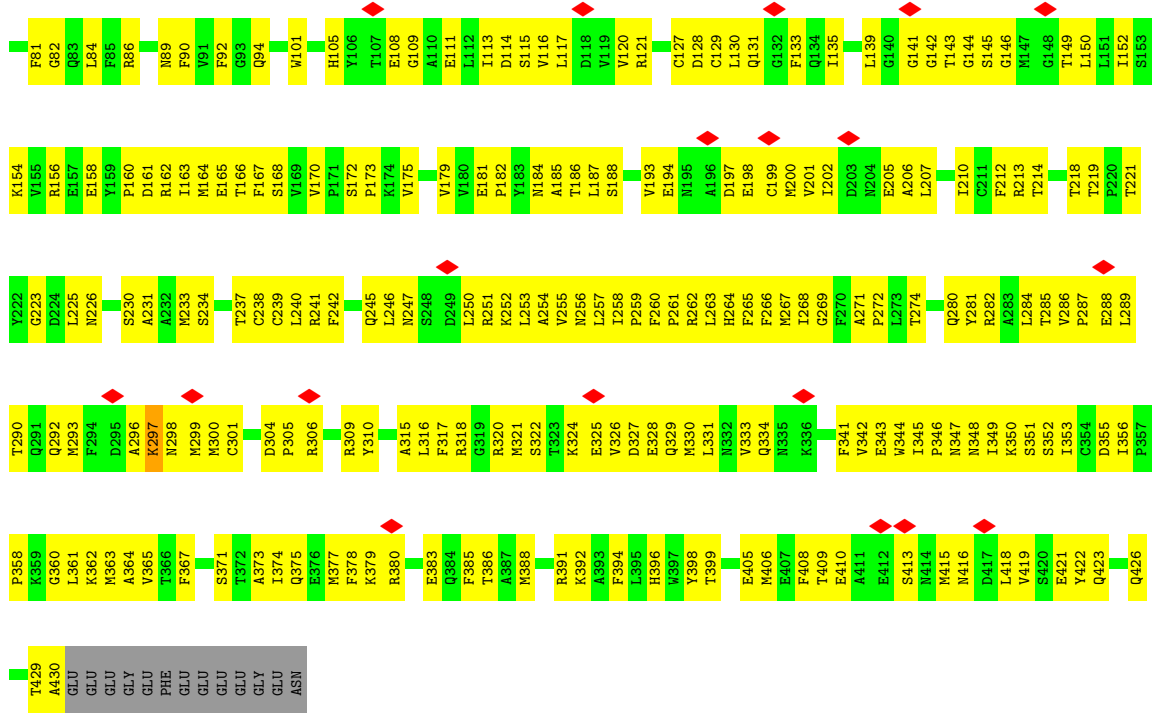


• Molecule 45: Tubulin beta chain

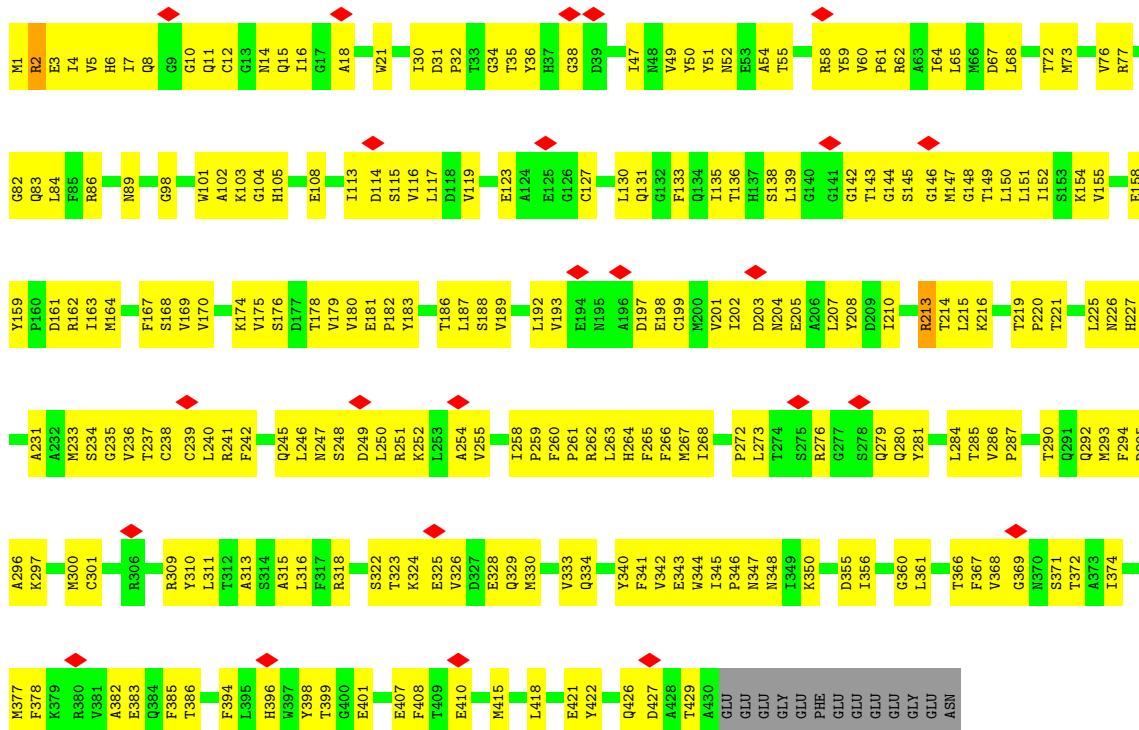
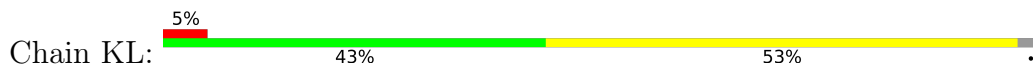


• Molecule 45: Tubulin beta chain

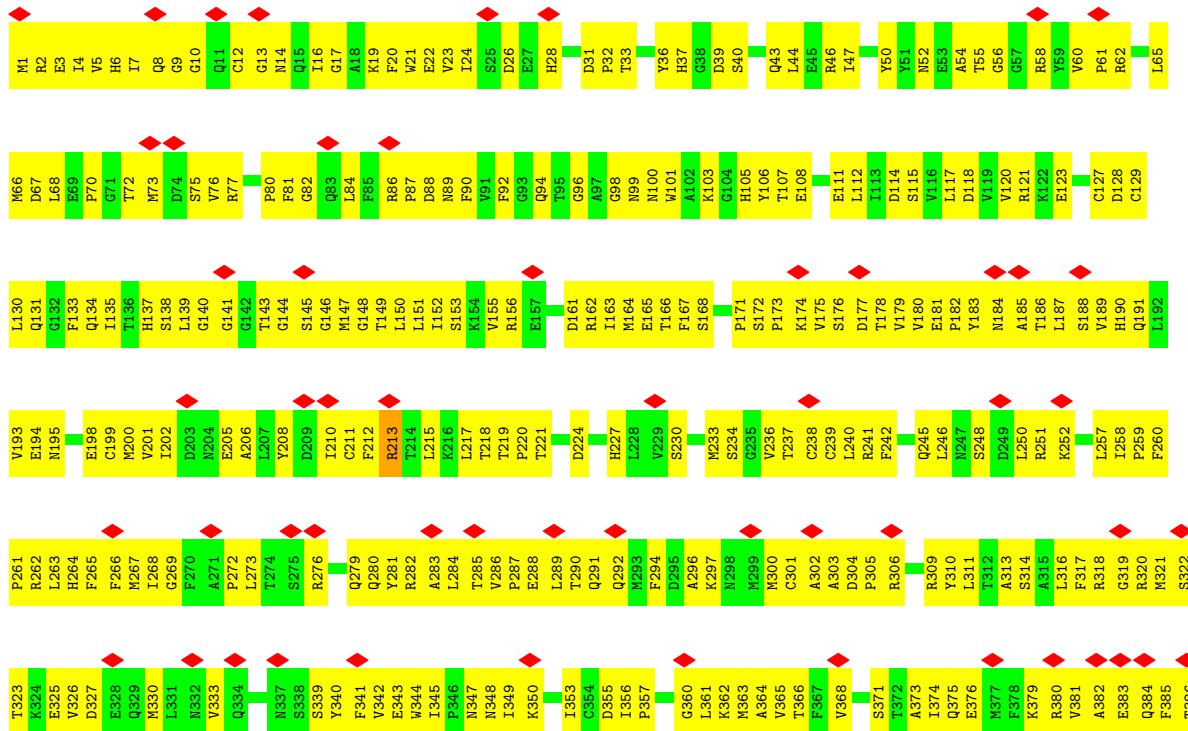




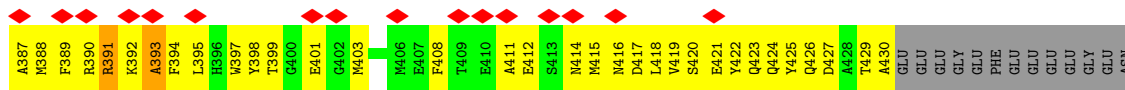
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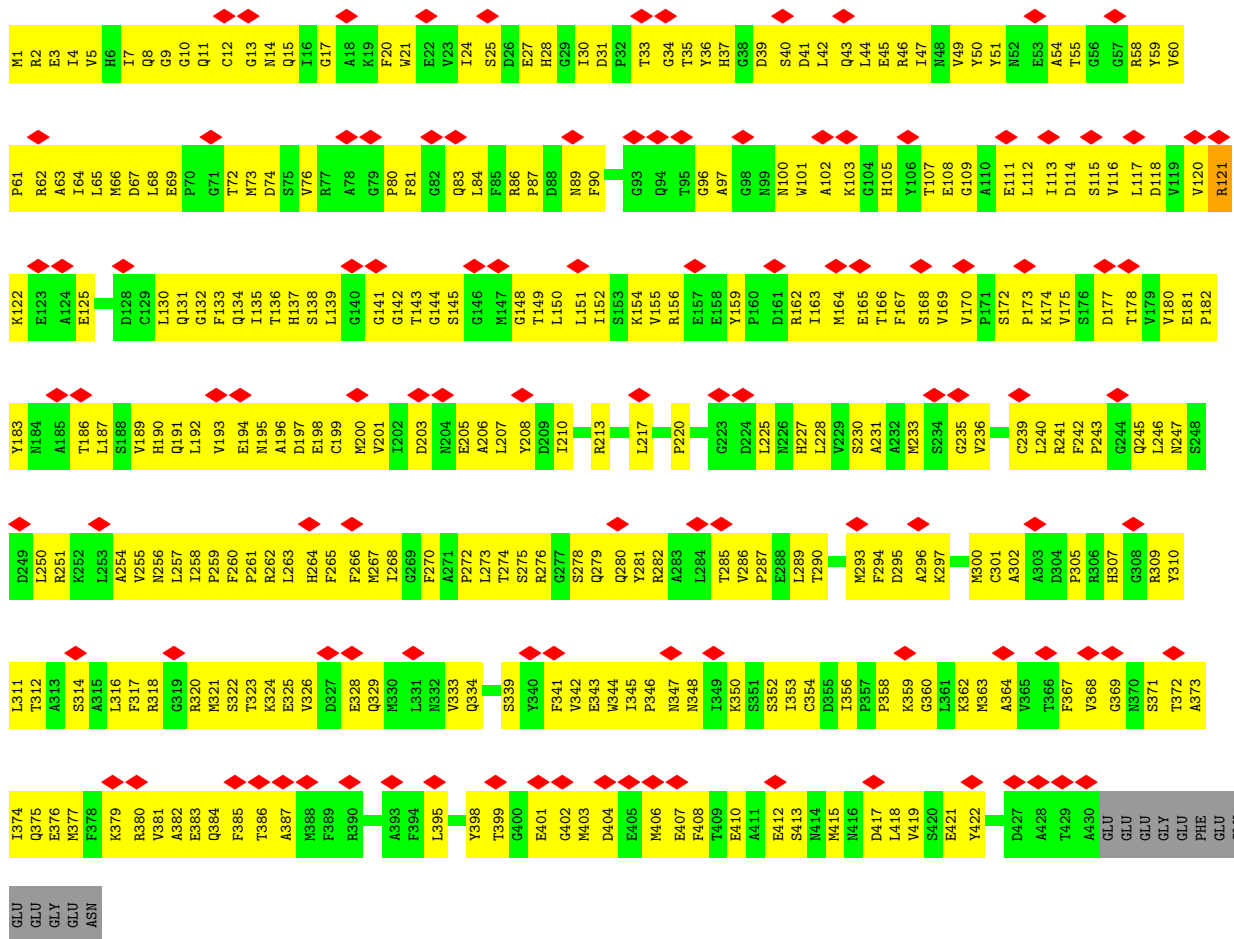
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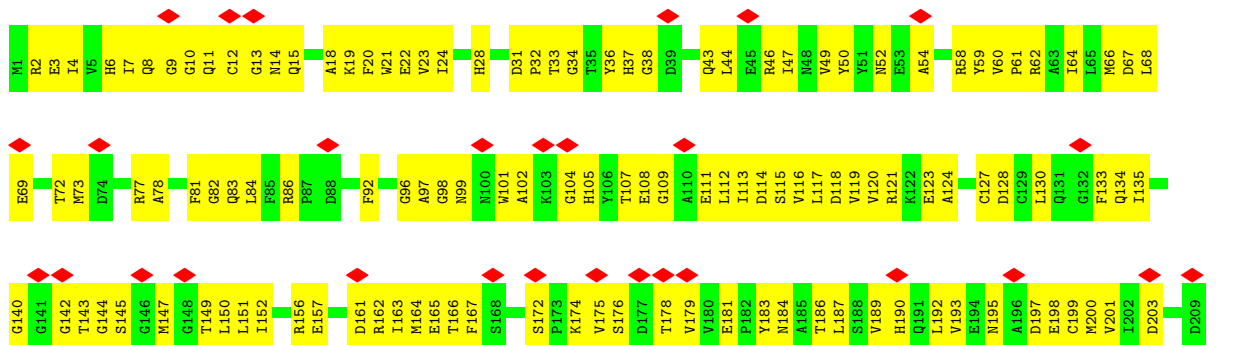


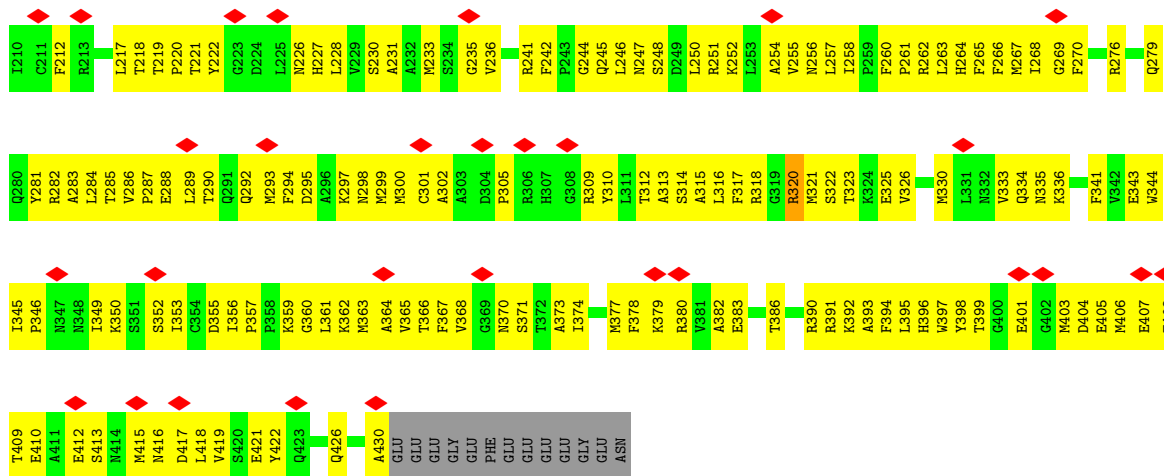


• Molecule 45: Tubulin beta chain



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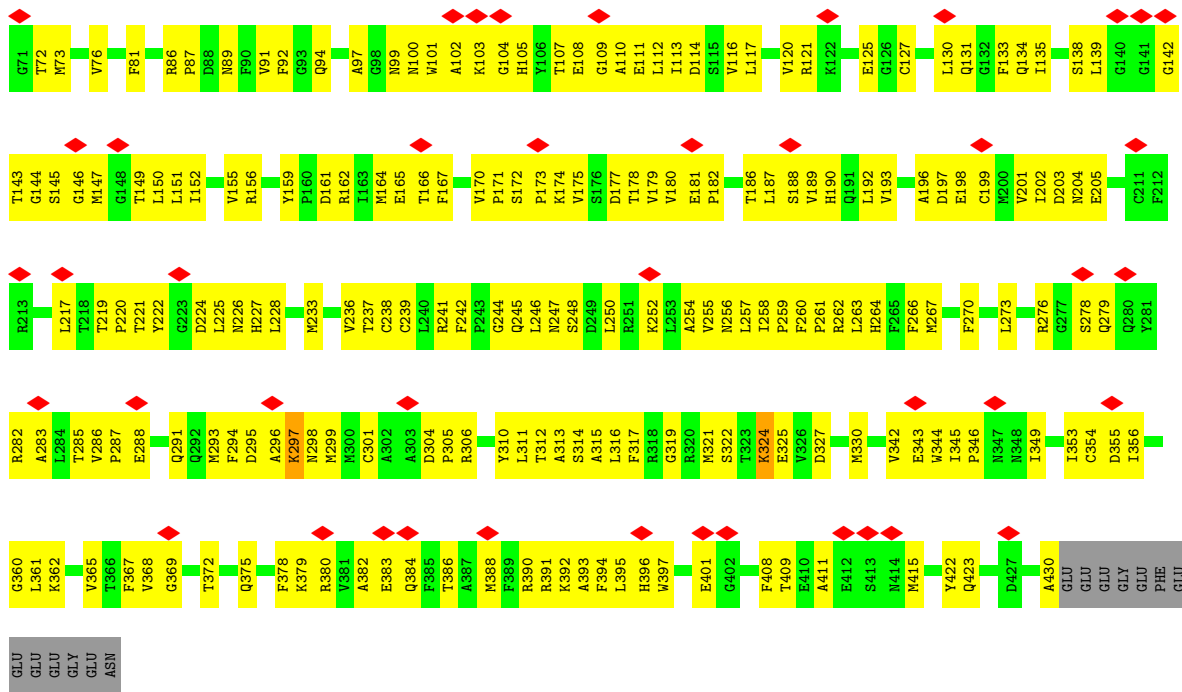


• Molecule 45: Tubulin beta chain

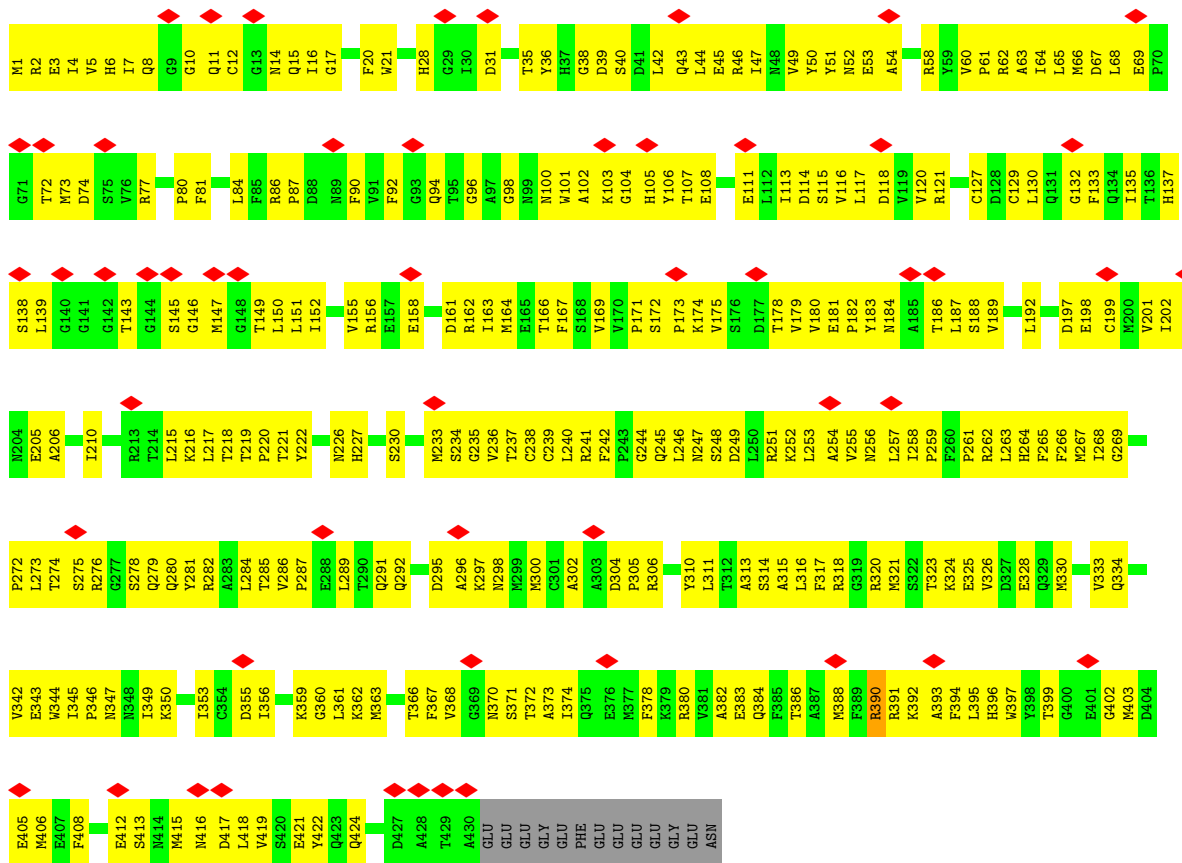


• Molecule 45: Tubulin beta chain





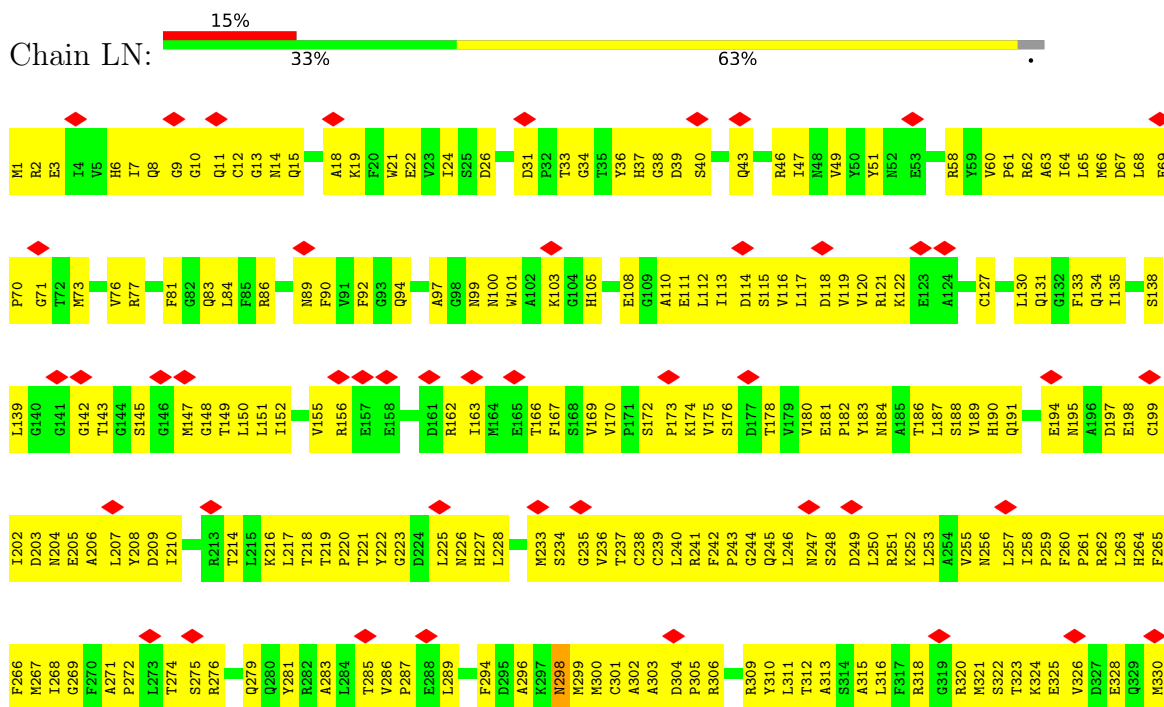
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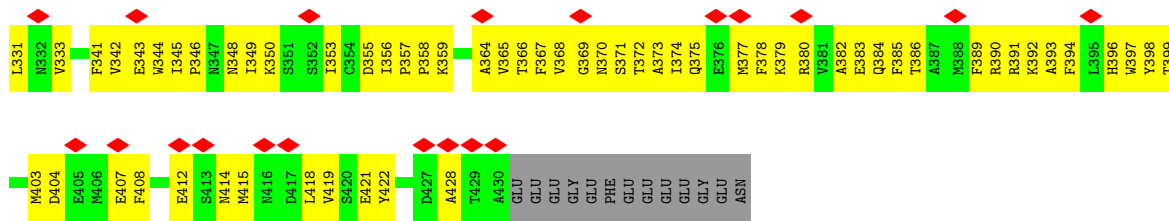


• Molecule 45: Tubulin beta chain

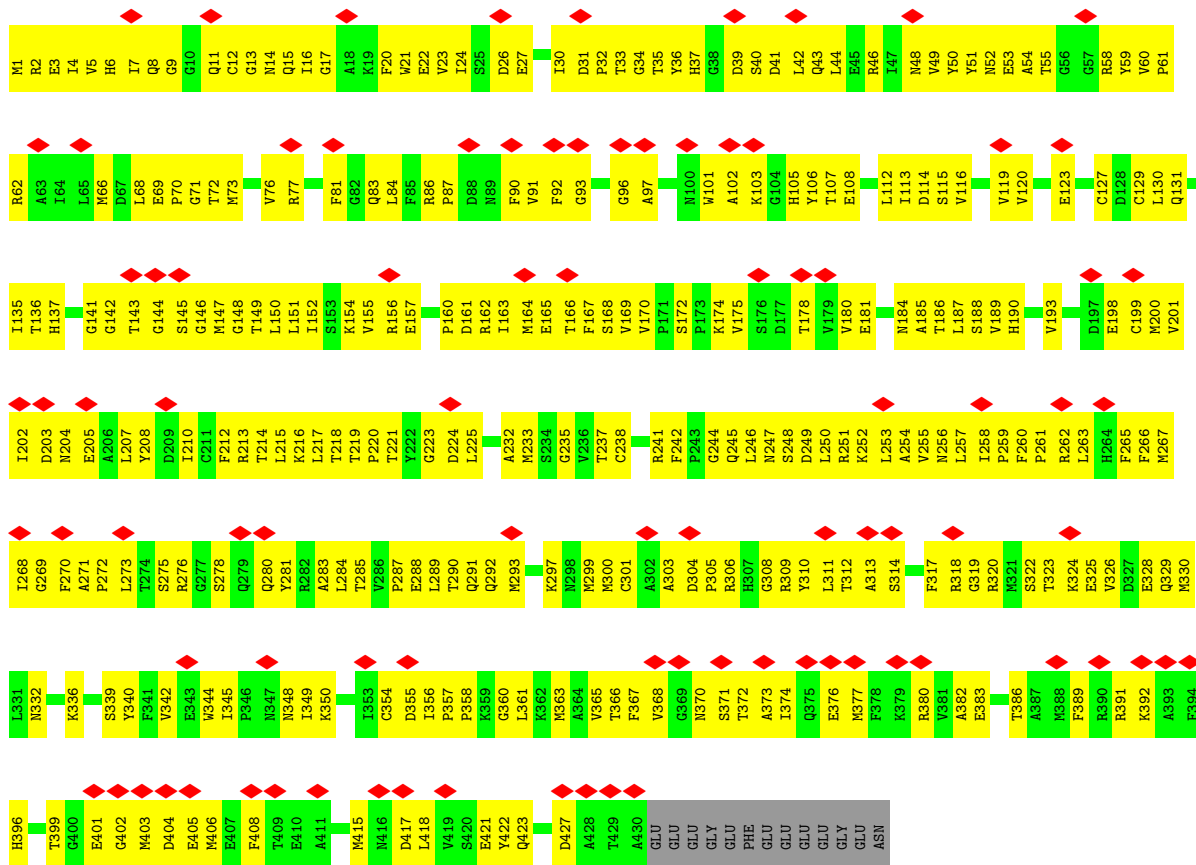


• Molecule 45: Tubulin beta chain

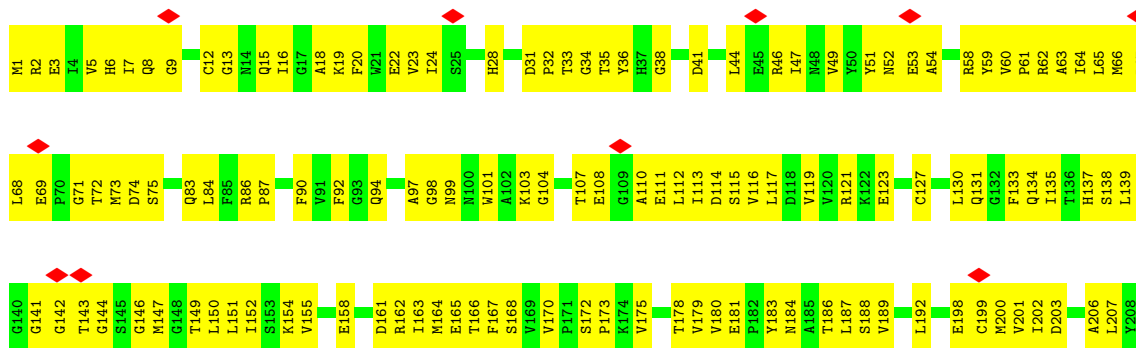




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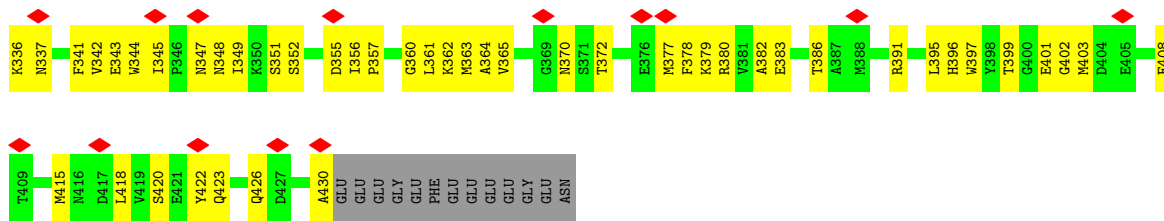




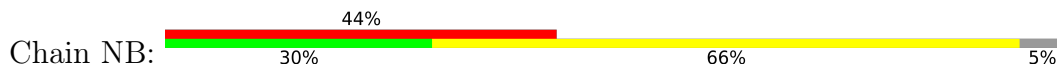




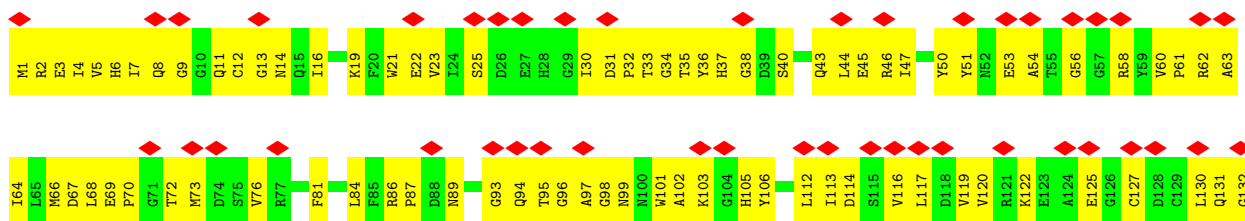


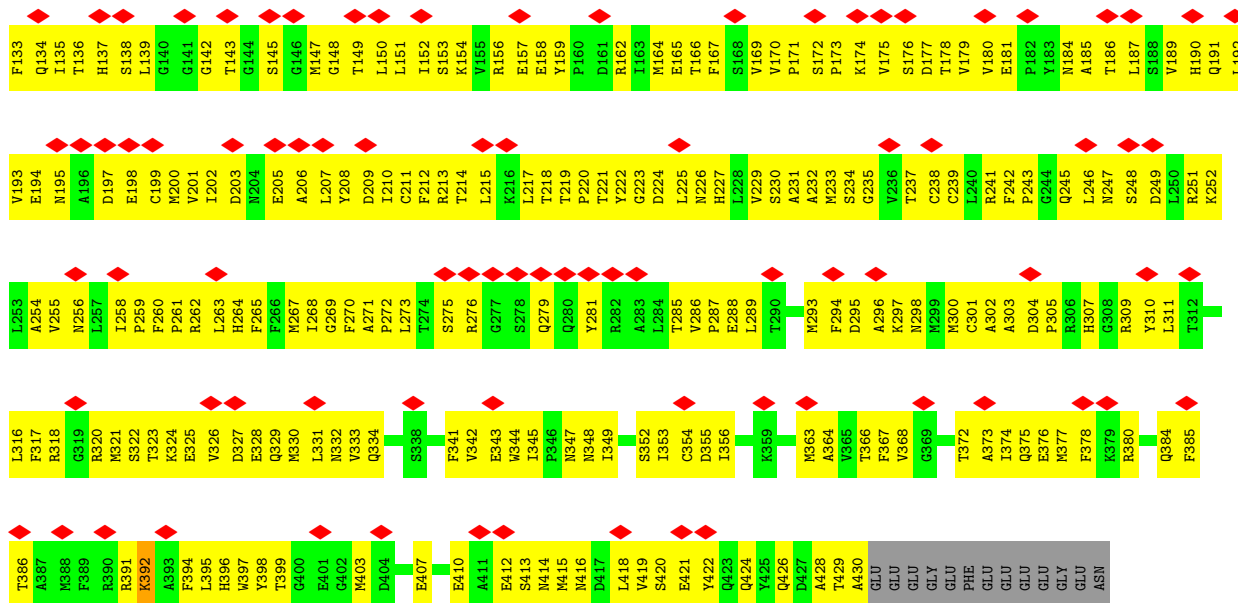


• Molecule 45: Tubulin beta chain

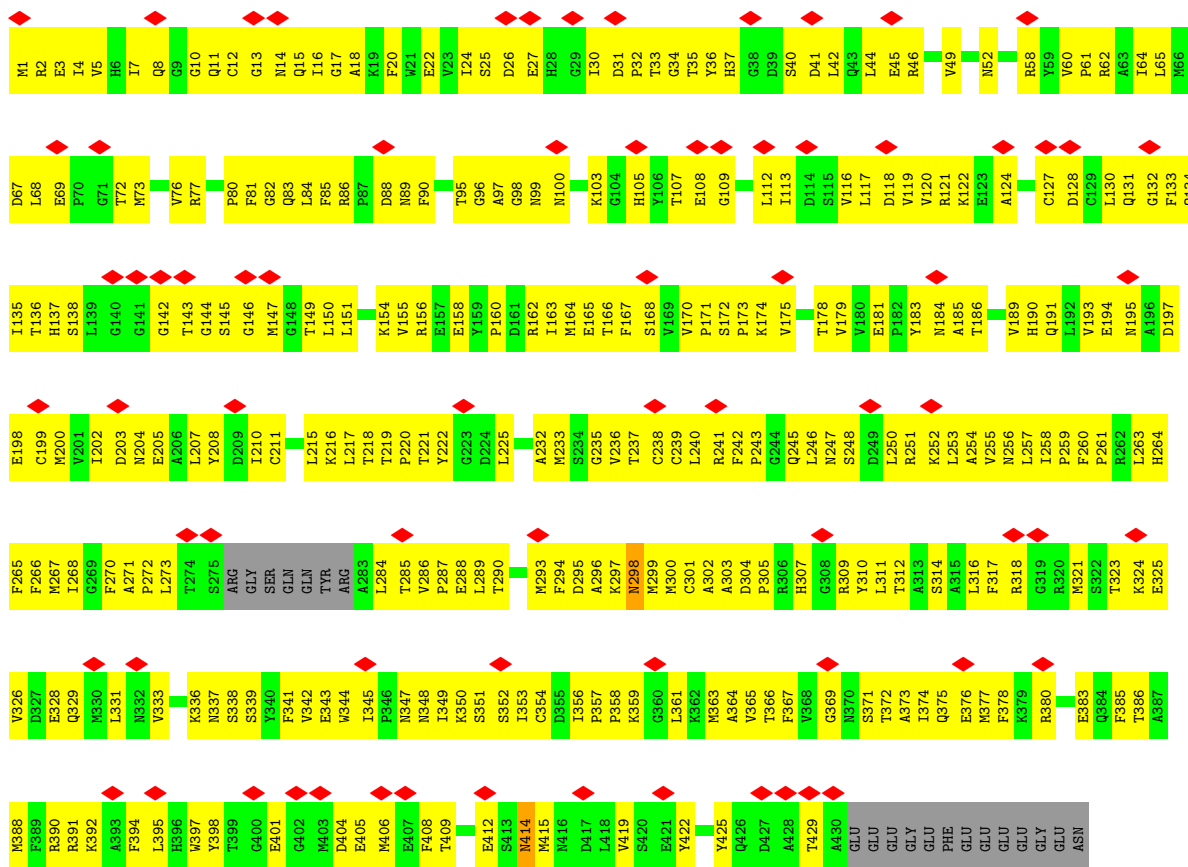


• Molecule 45: Tubulin beta chain



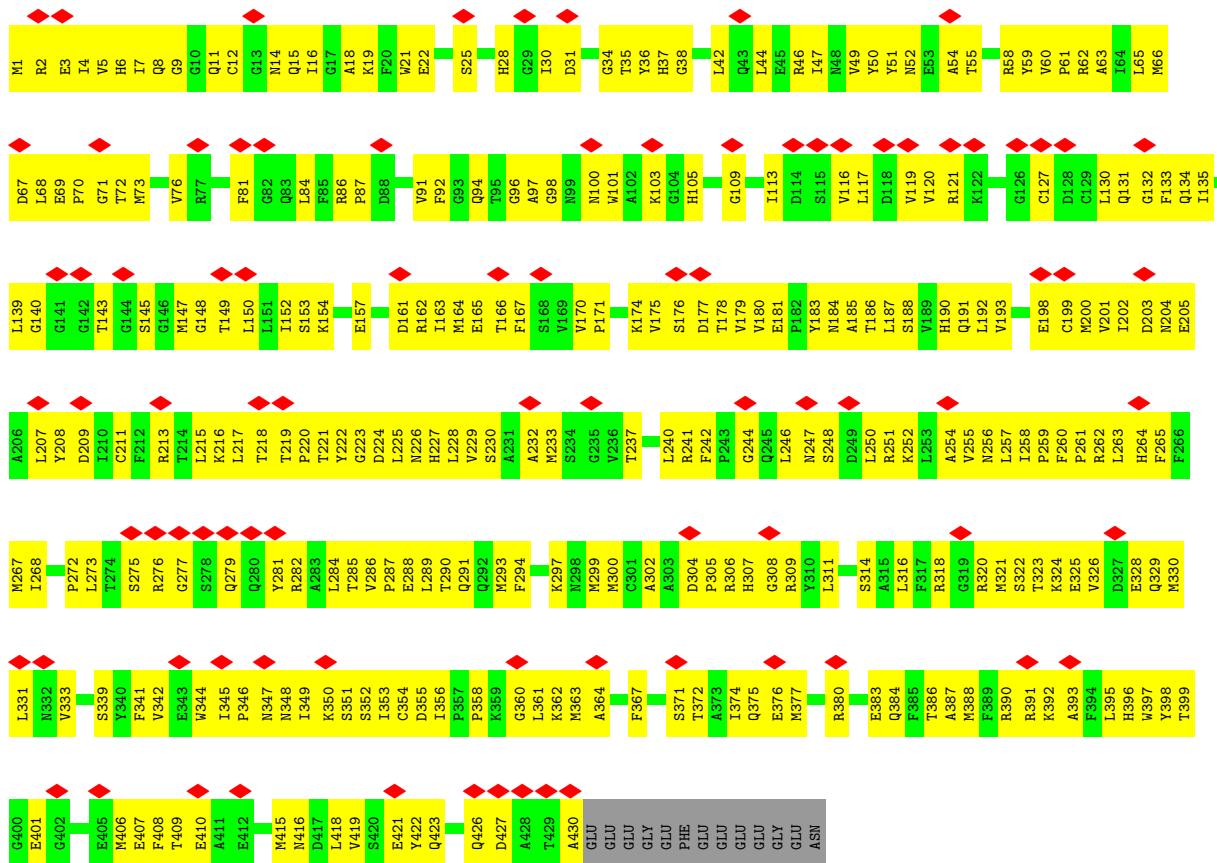


• Molecule 45: Tubulin beta chain

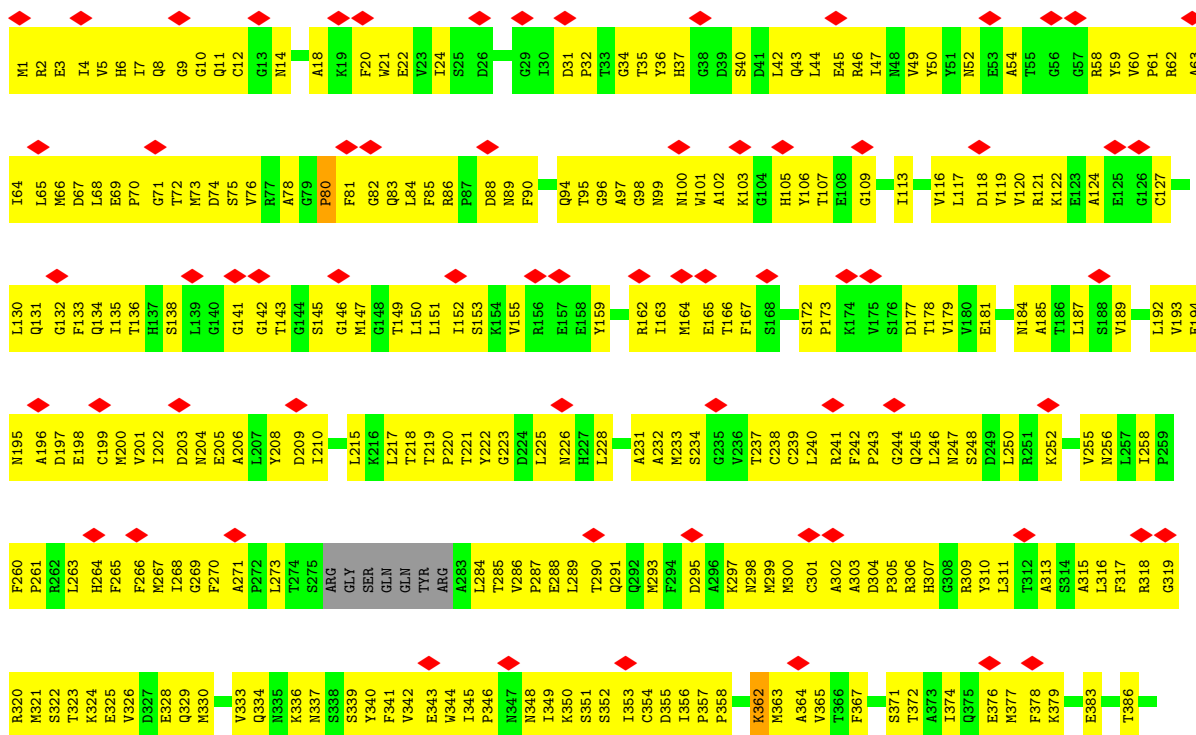


• Molecule 45: Tubulin beta chain



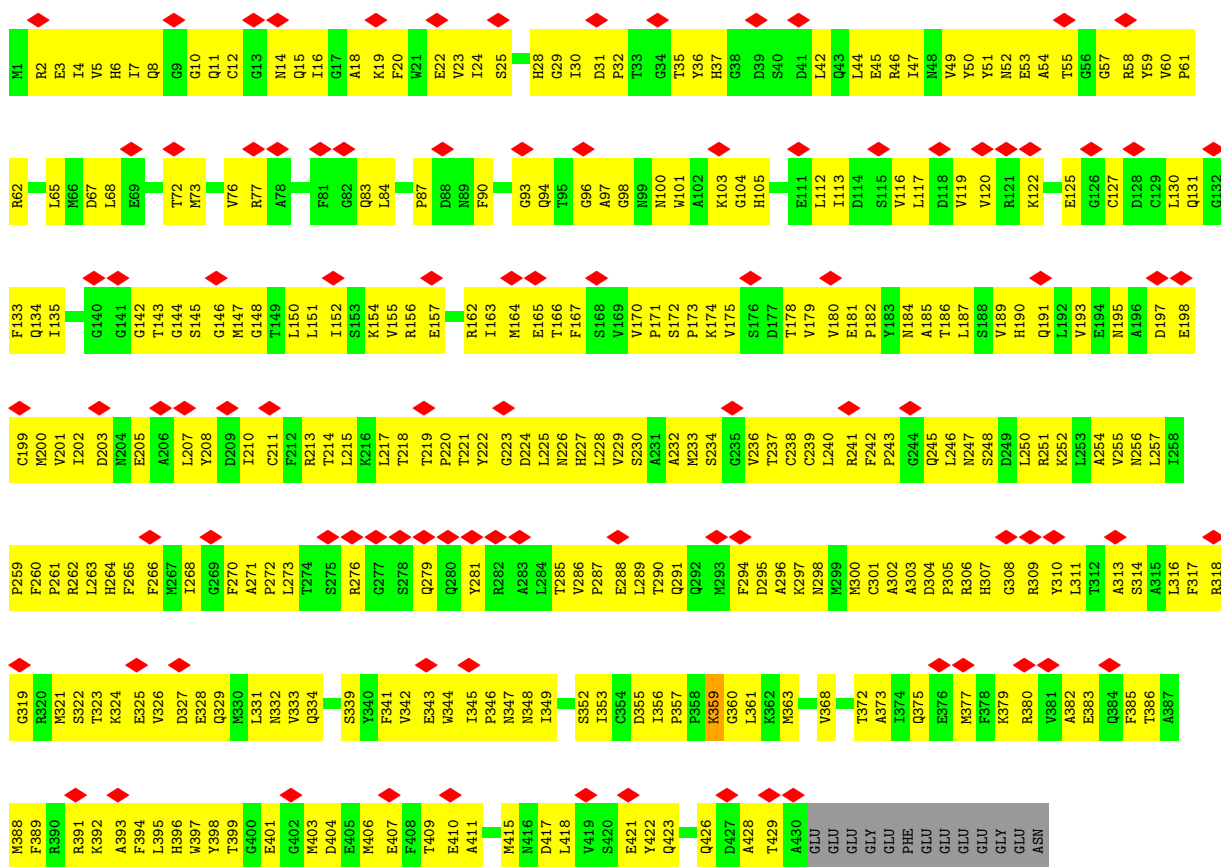


• Molecule 45: Tubulin beta chain

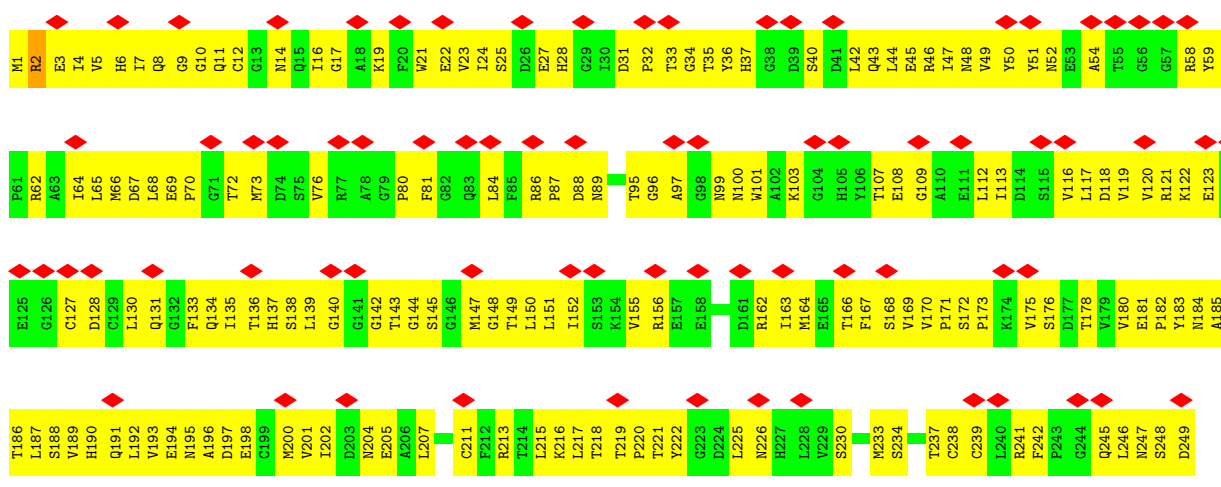


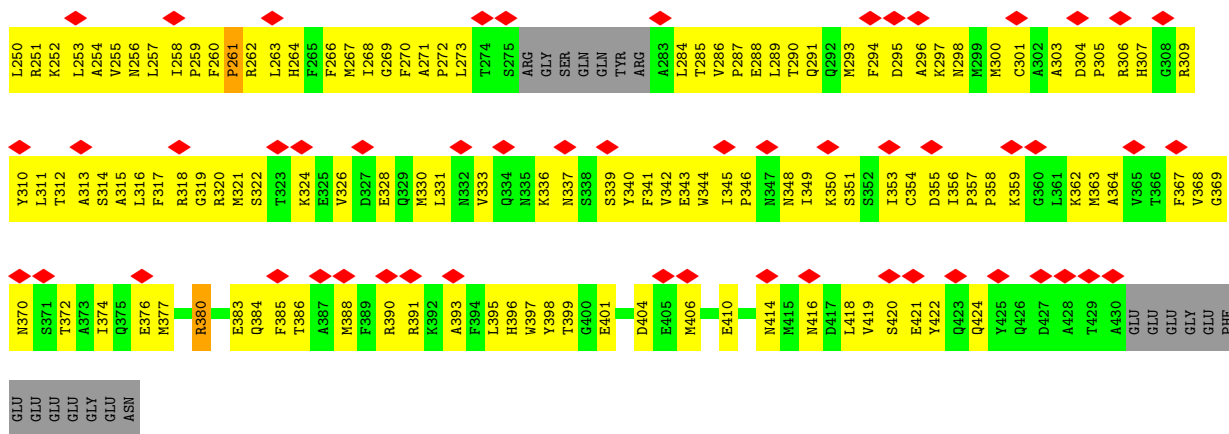


• Molecule 45: Tubulin beta chain

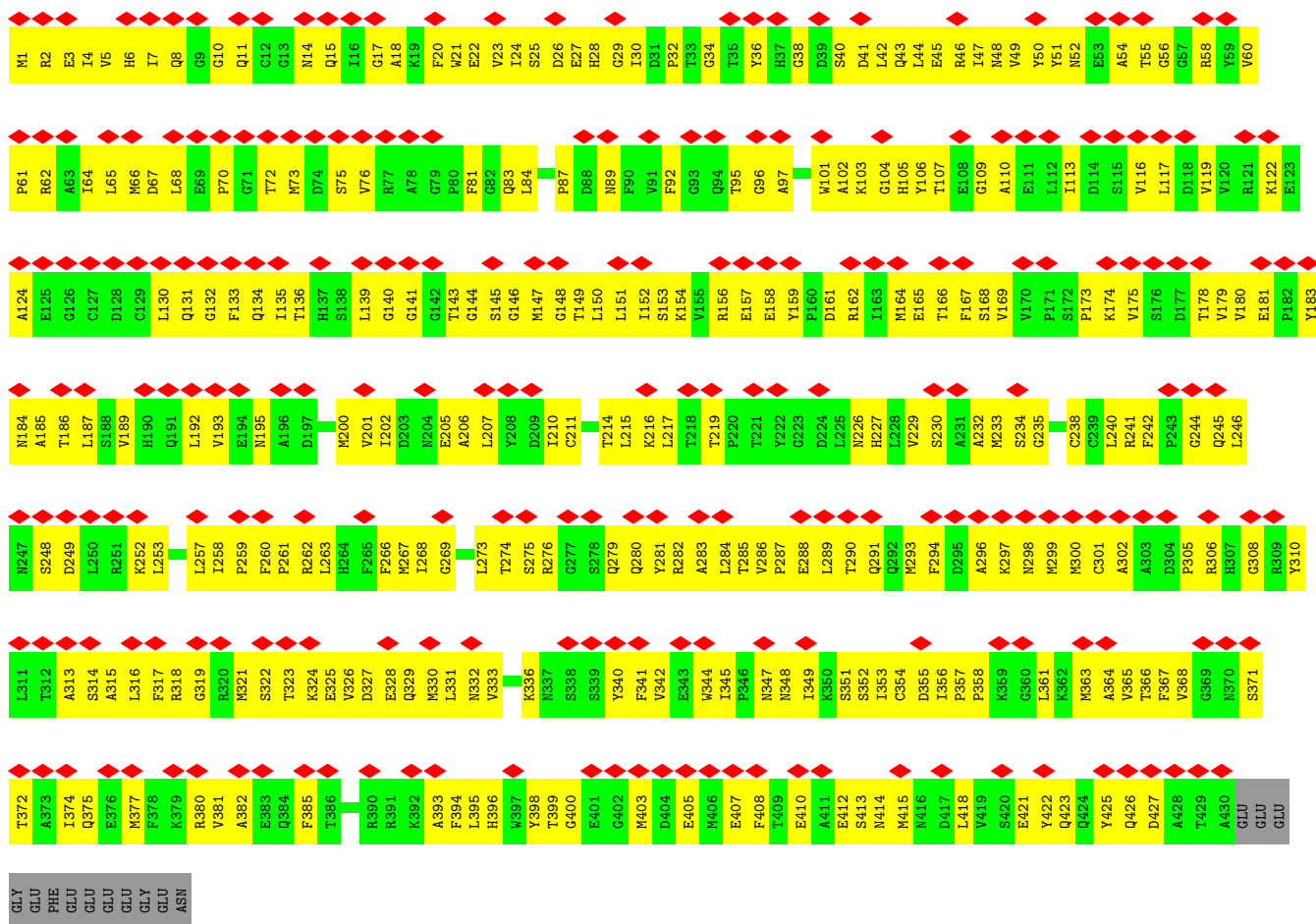


• Molecule 45: Tubulin beta chain



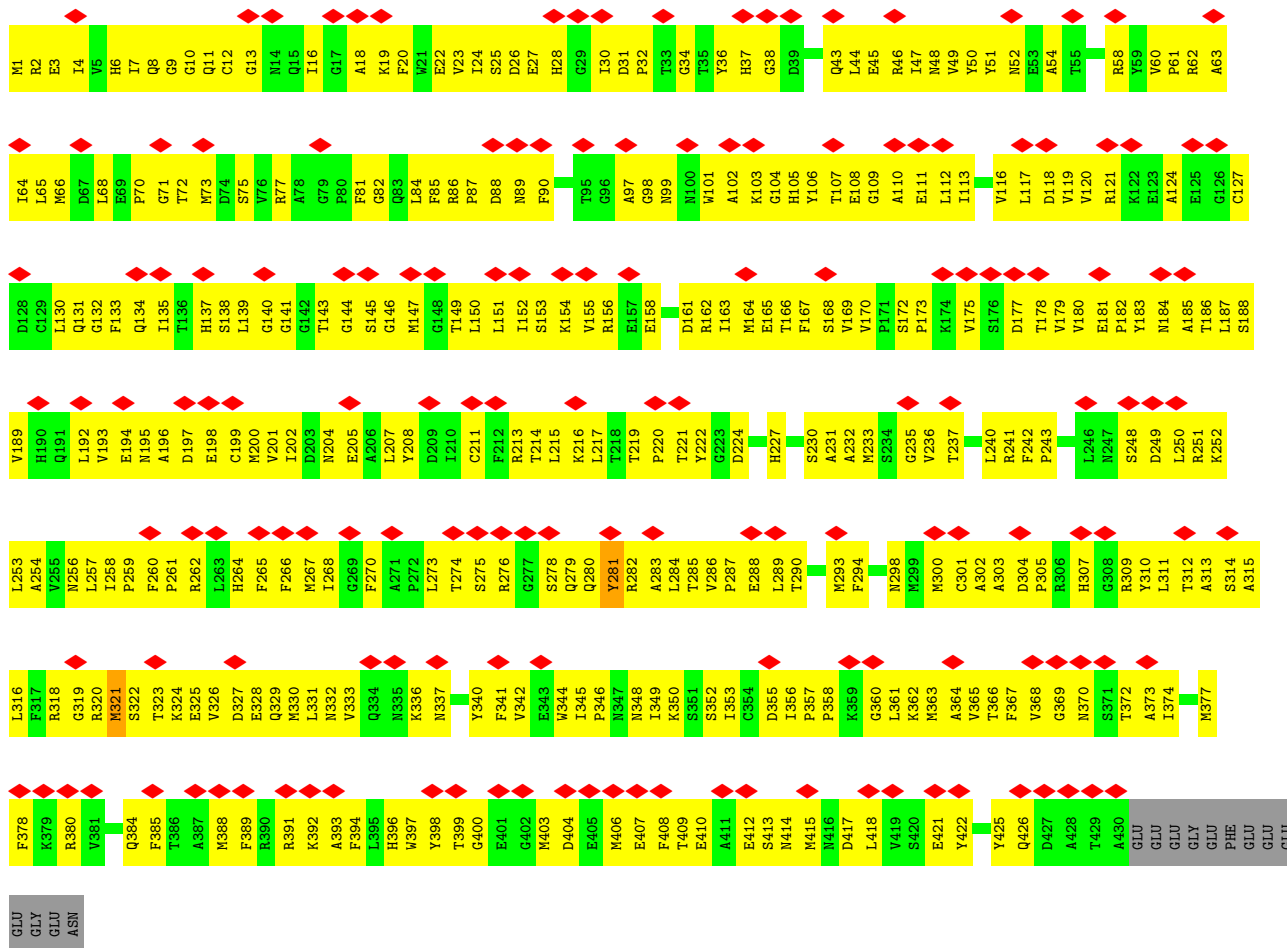


• Molecule 45: Tubulin beta chain

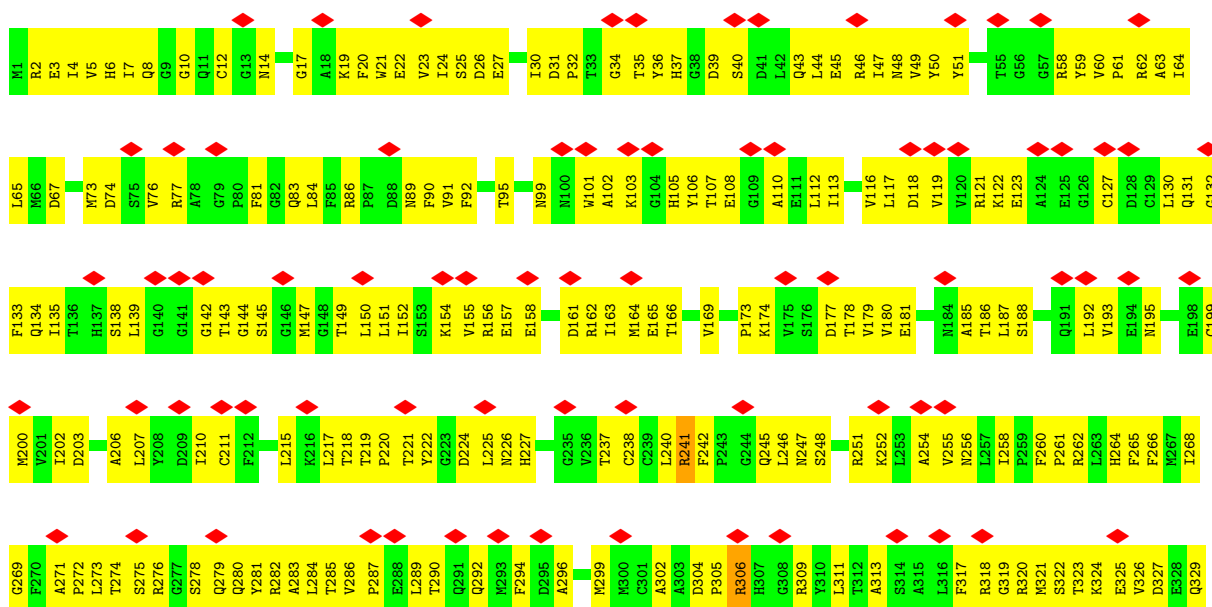


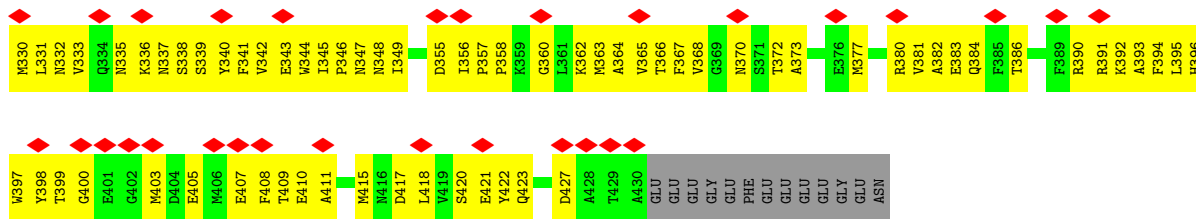
• Molecule 45: Tubulin beta chain



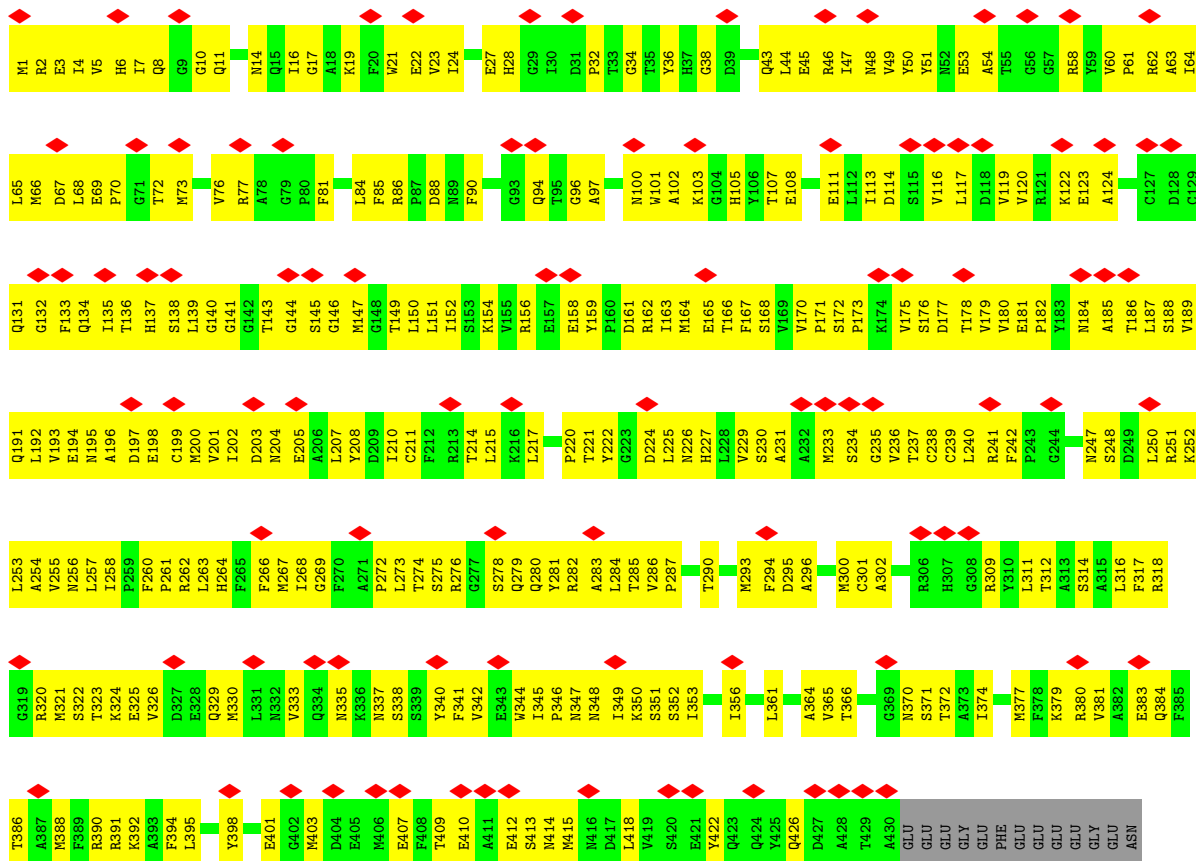


• Molecule 45: Tubulin beta chain

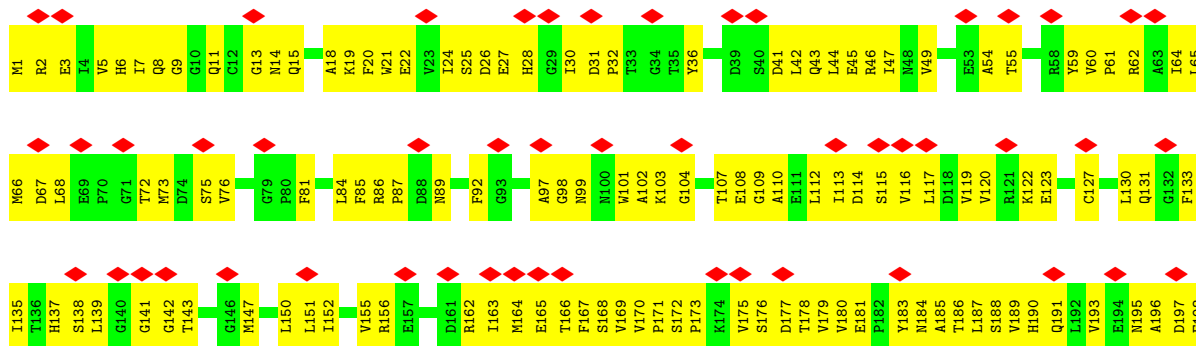




• Molecule 45: Tubulin beta chain

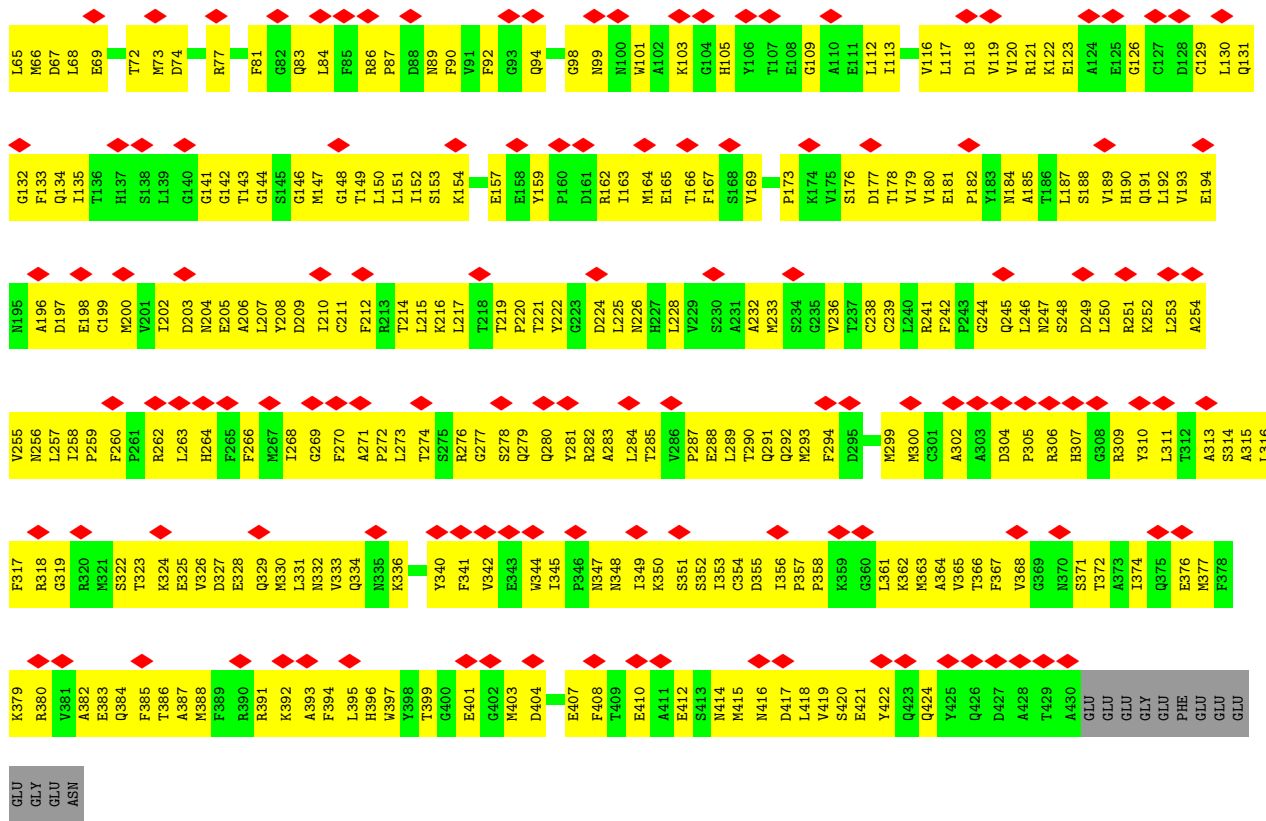


• Molecule 45: Tubulin beta chain

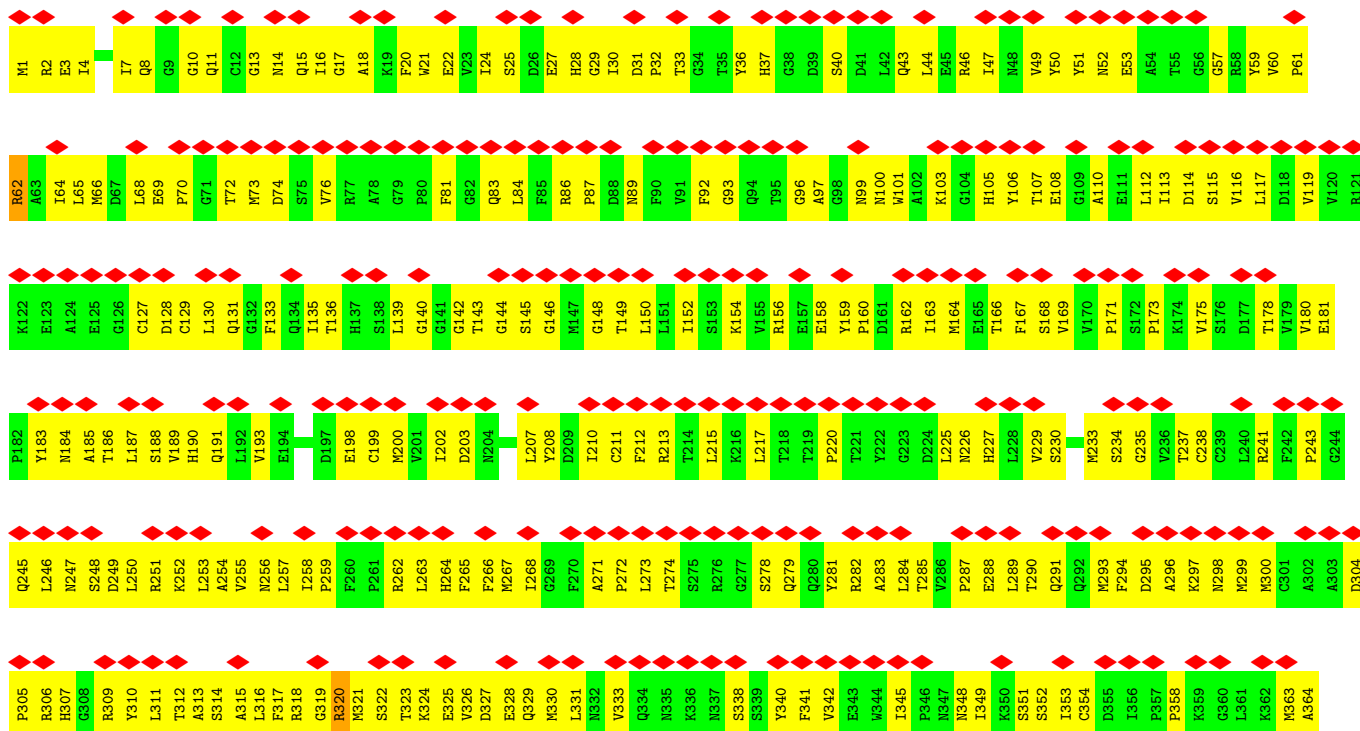


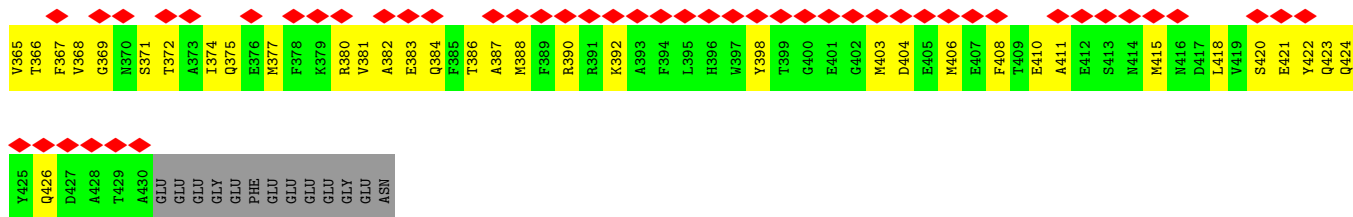




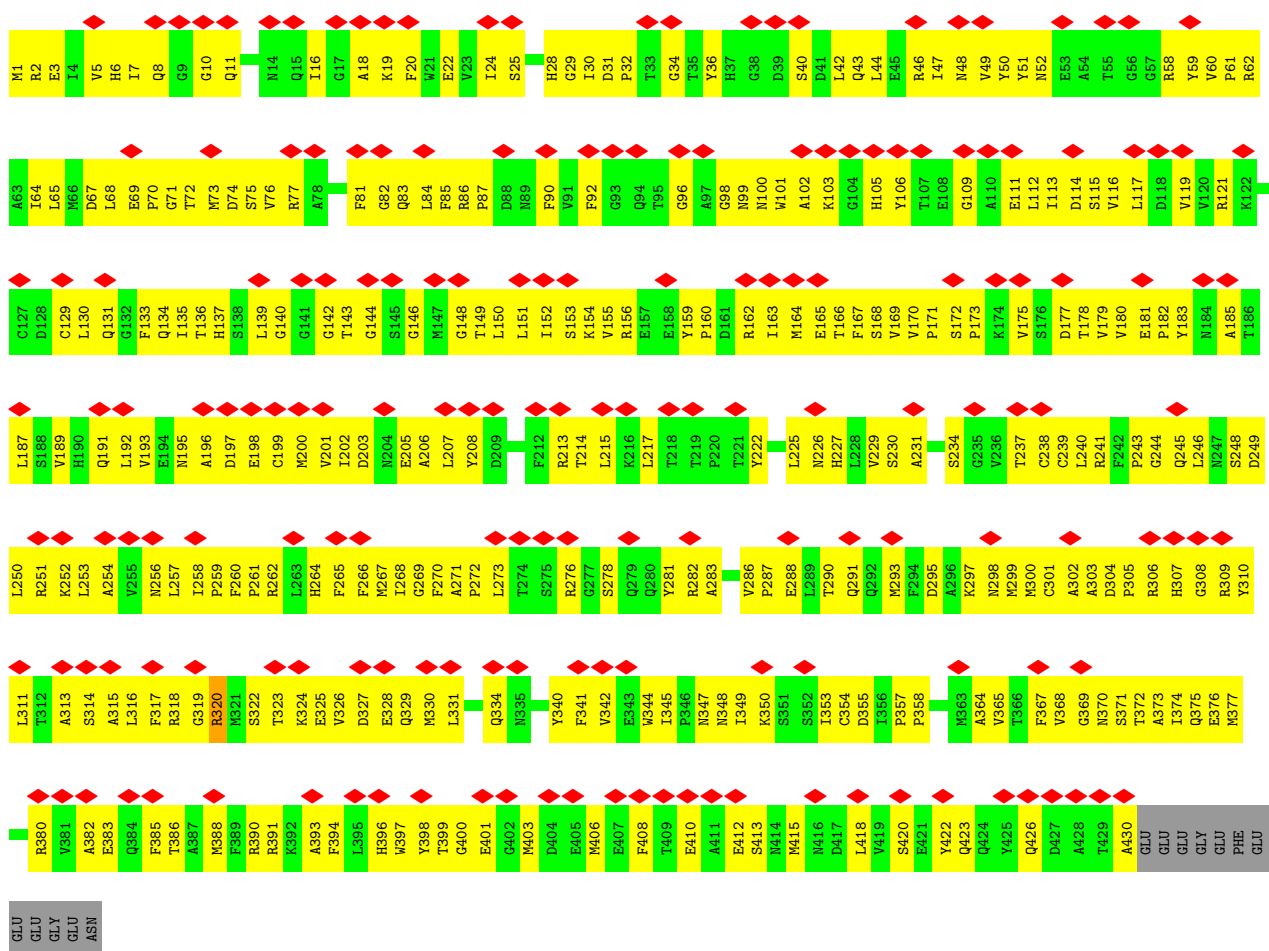


• Molecule 45: Tubulin beta chain

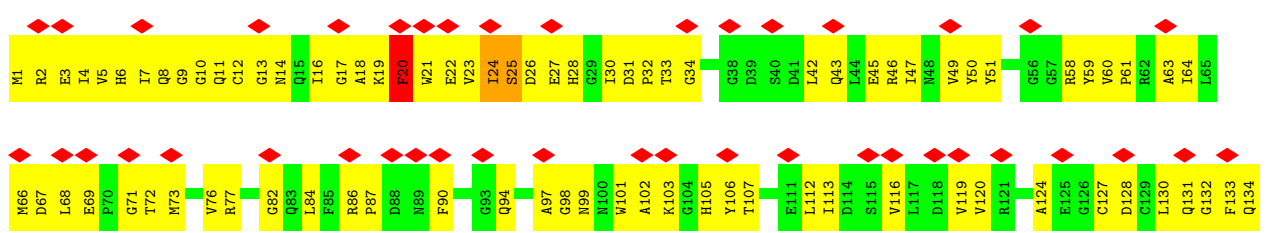


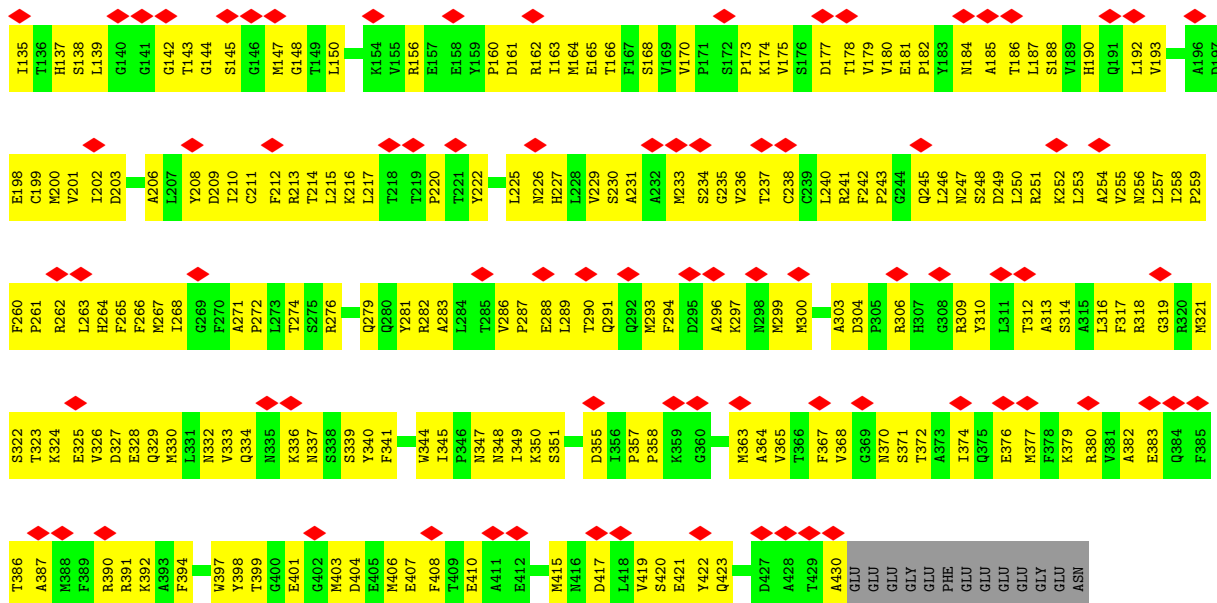


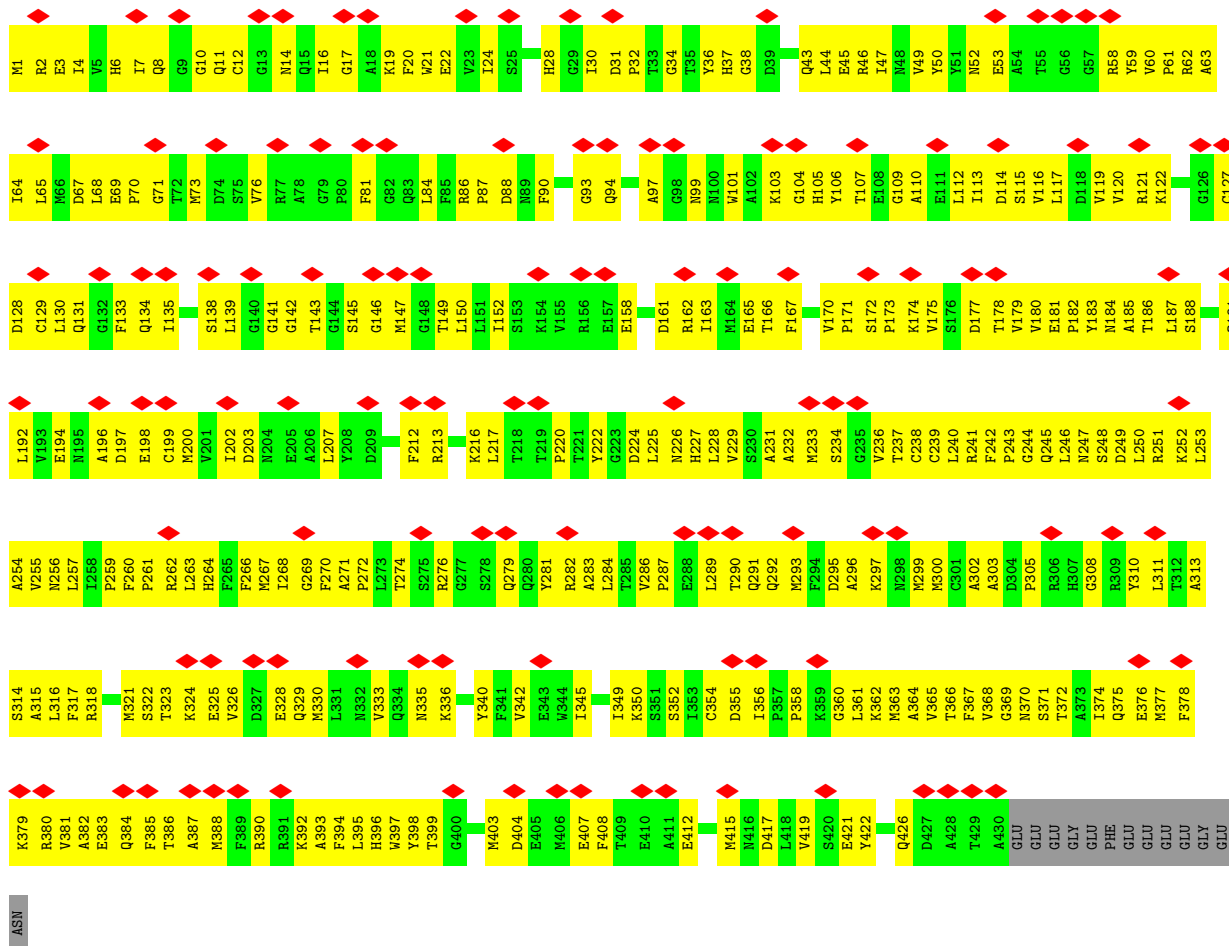
• Molecule 45: Tubulin beta chain



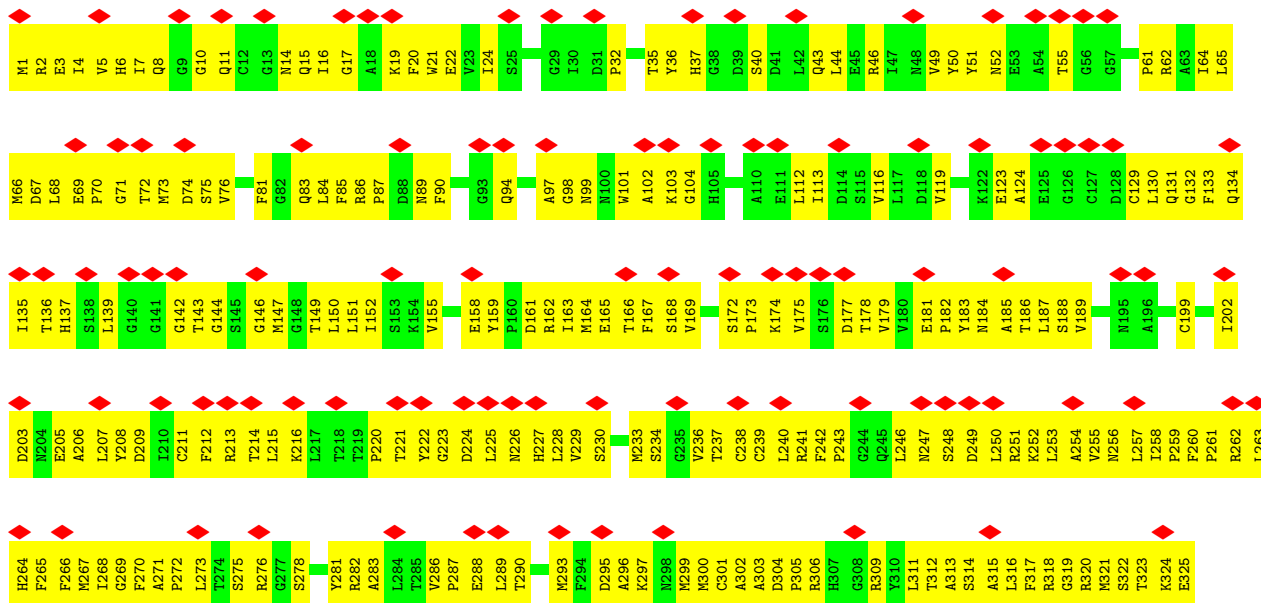
• Molecule 45: Tubulin beta chain

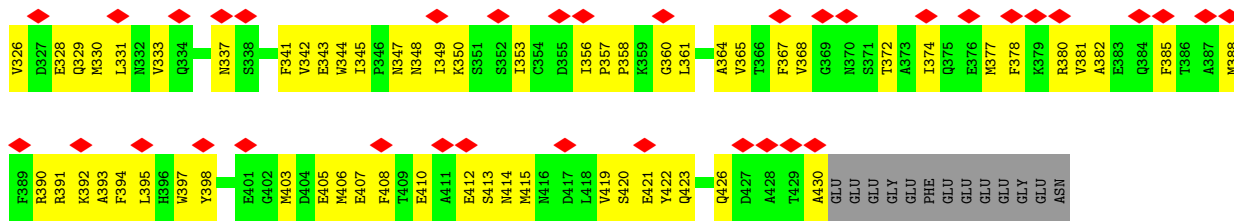




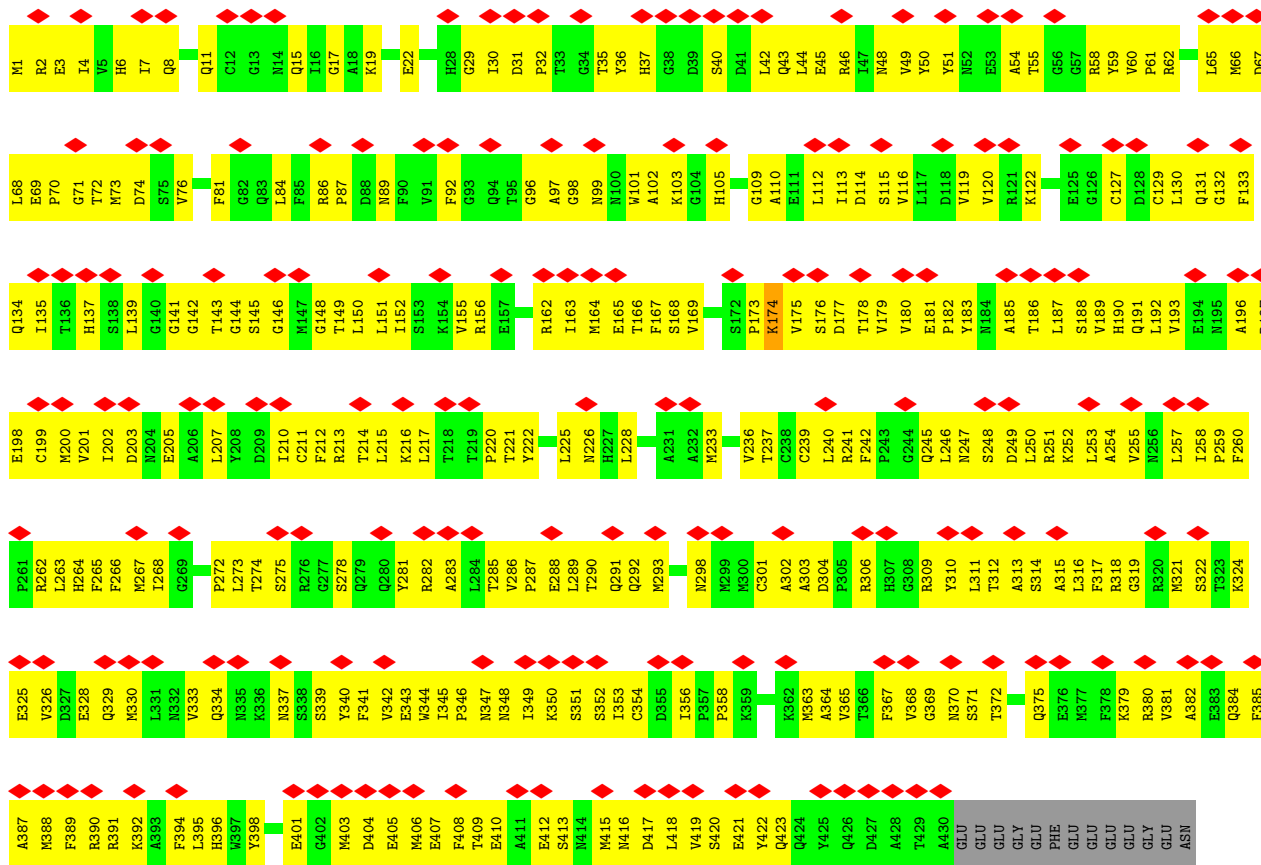


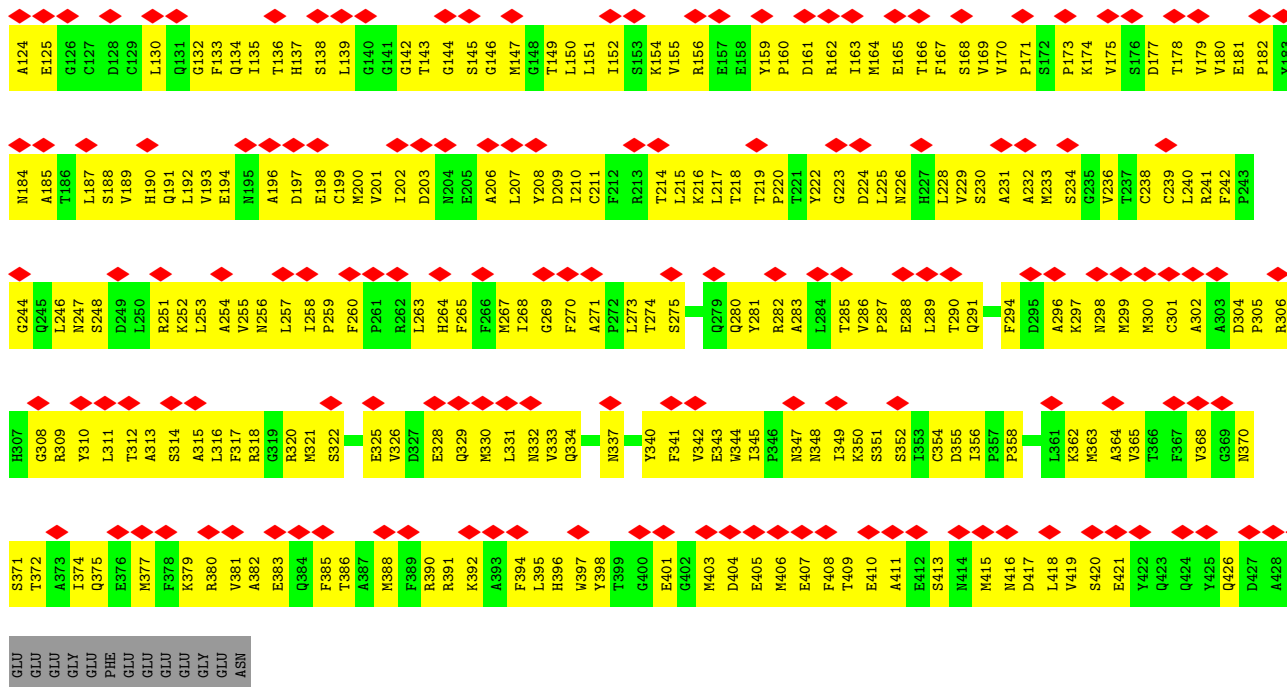
• Molecule 45: Tubulin beta chain



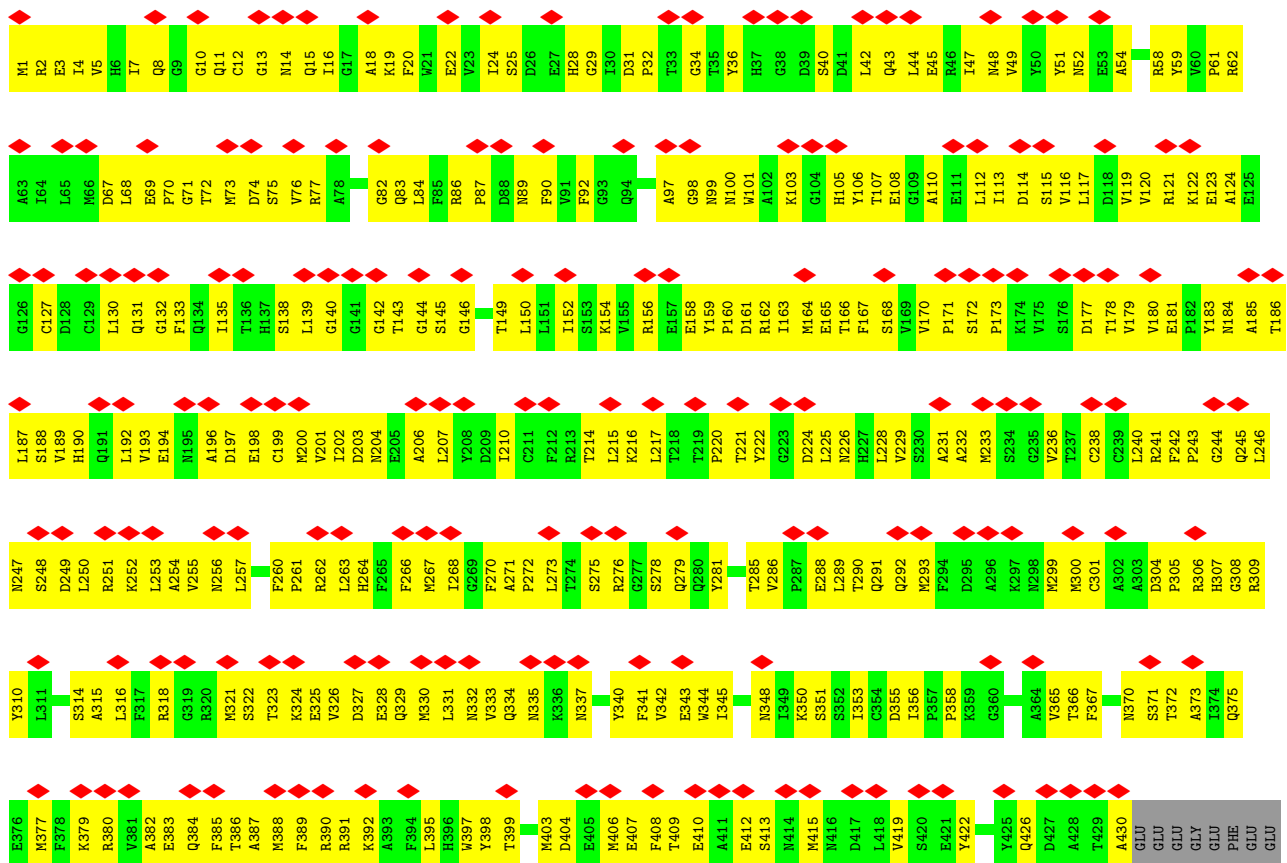


• Molecule 45: Tubulin beta chain



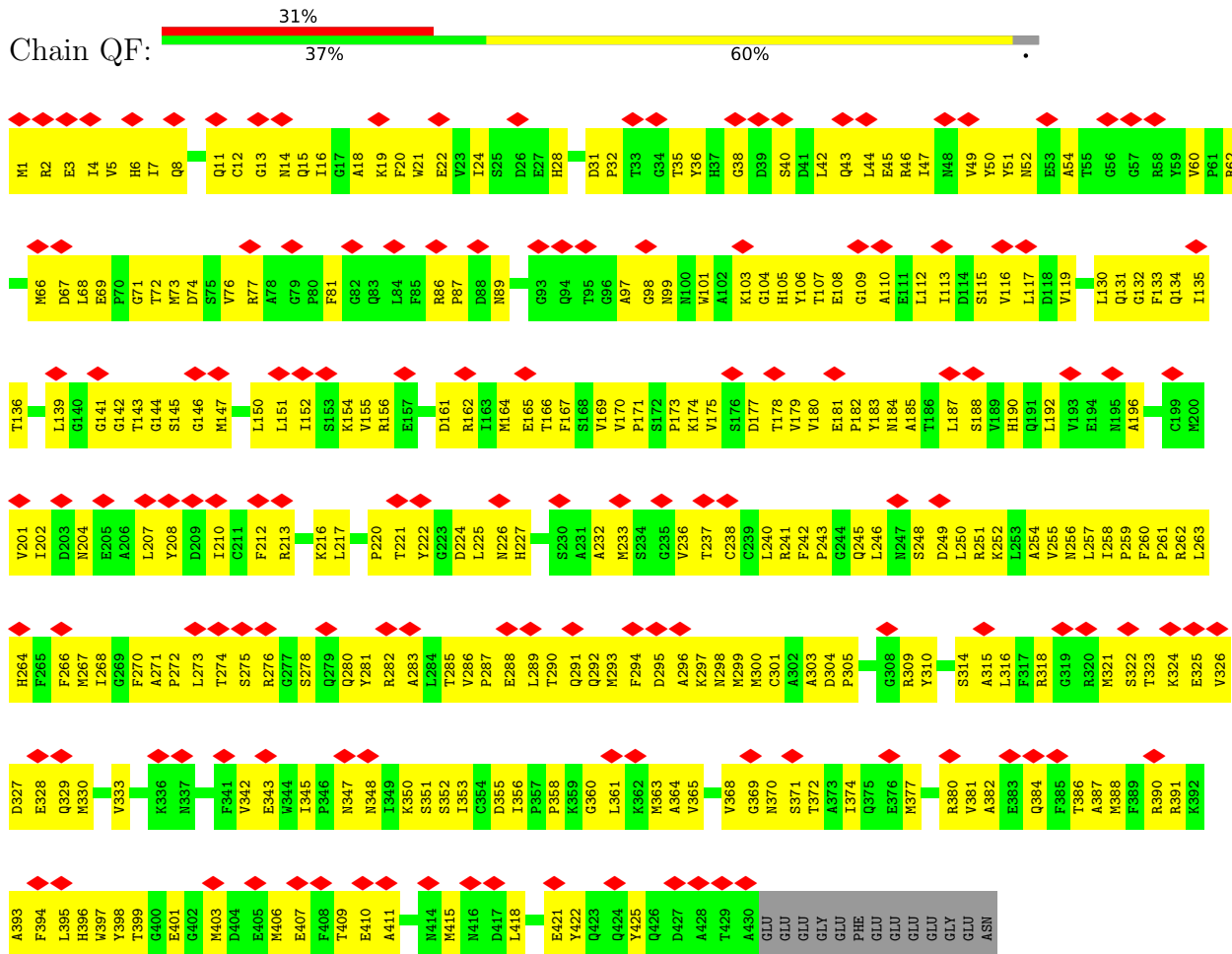


• Molecule 45: Tubulin beta chain

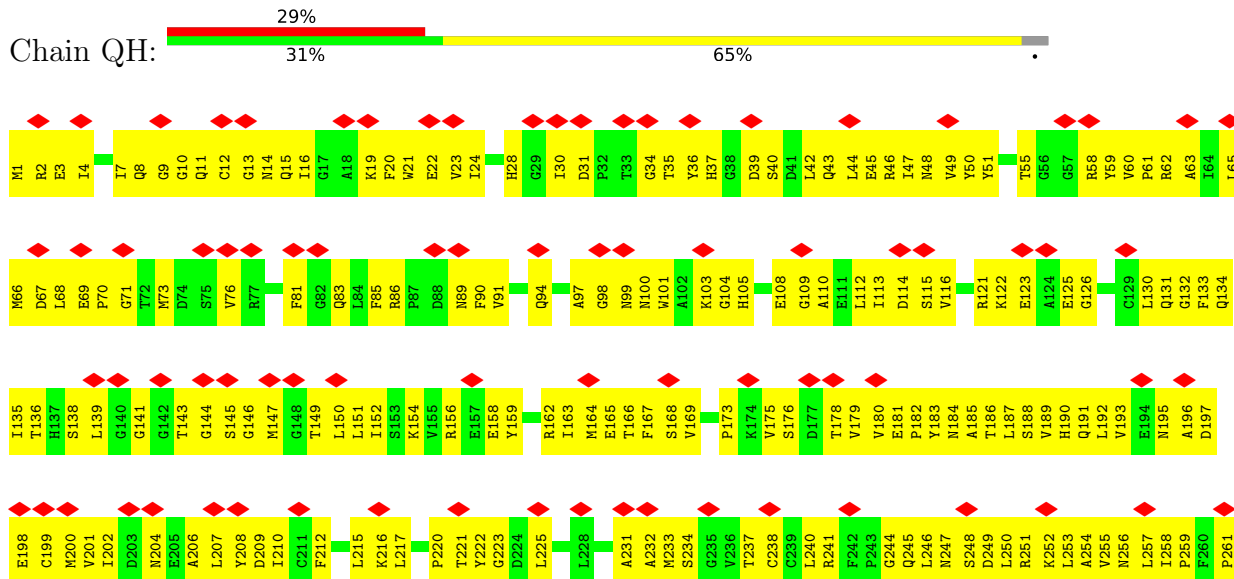


GLU  
GLU  
GLY  
GLY  
ASN

• Molecule 45: Tubulin beta chain



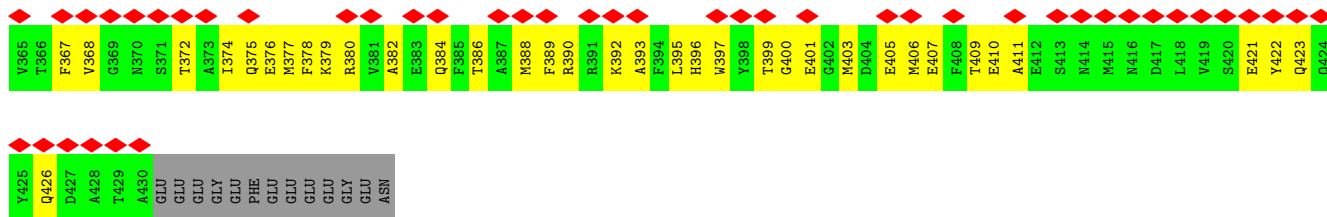
• Molecule 45: Tubulin beta chain



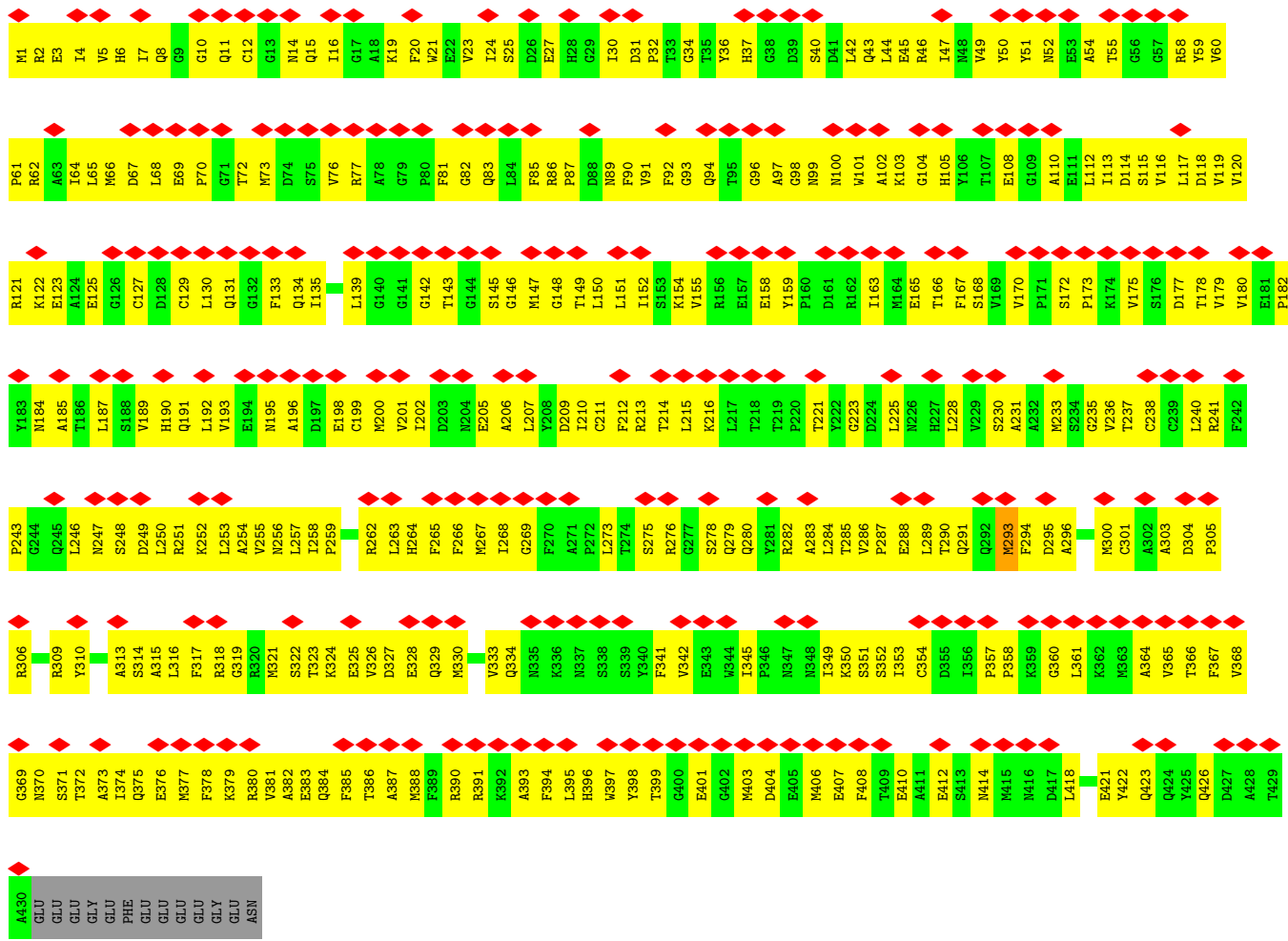


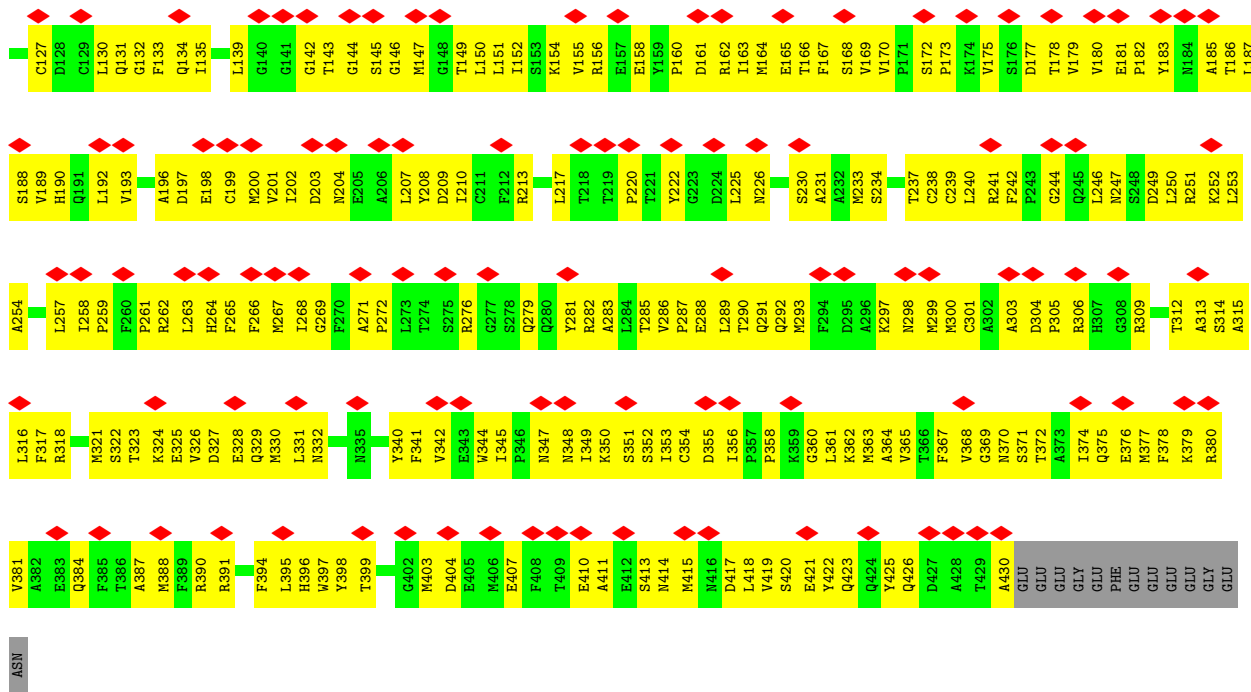




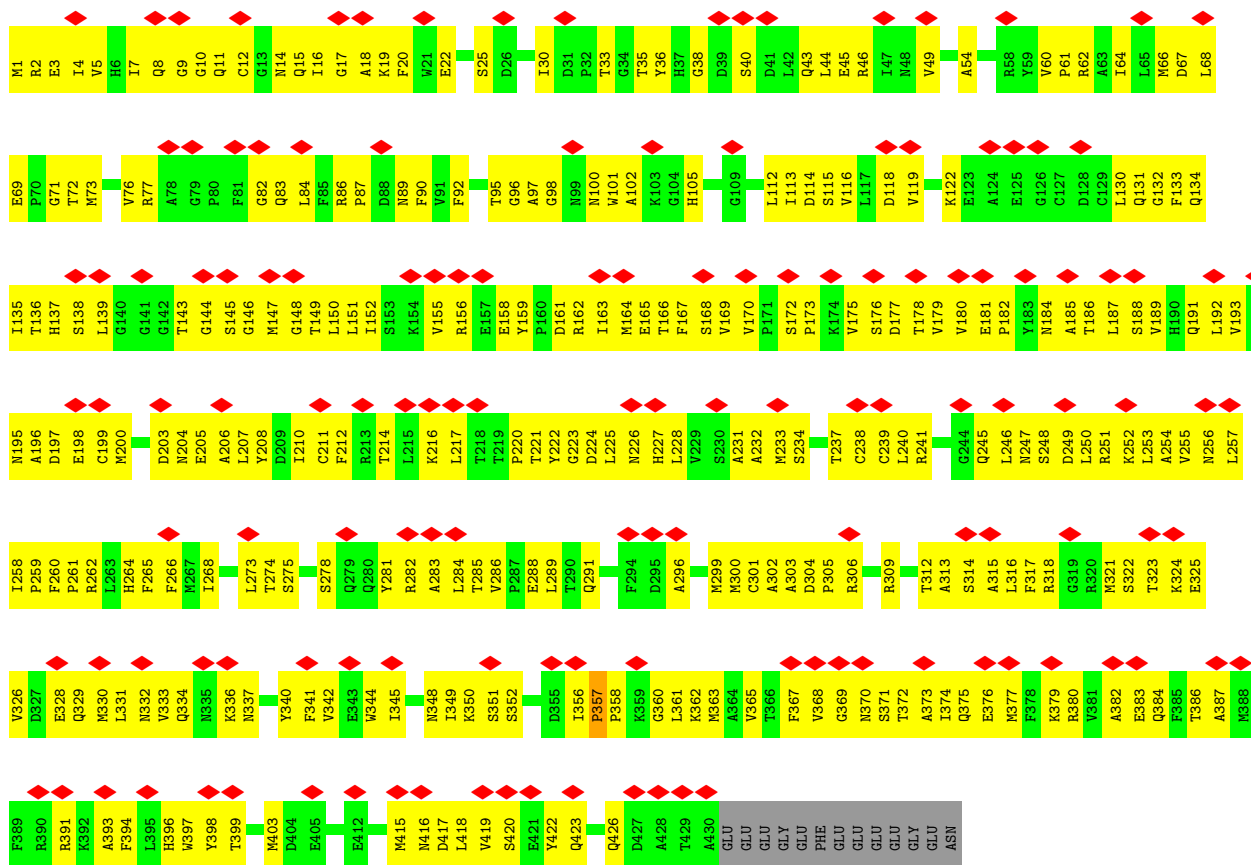


• Molecule 45: Tubulin beta chain

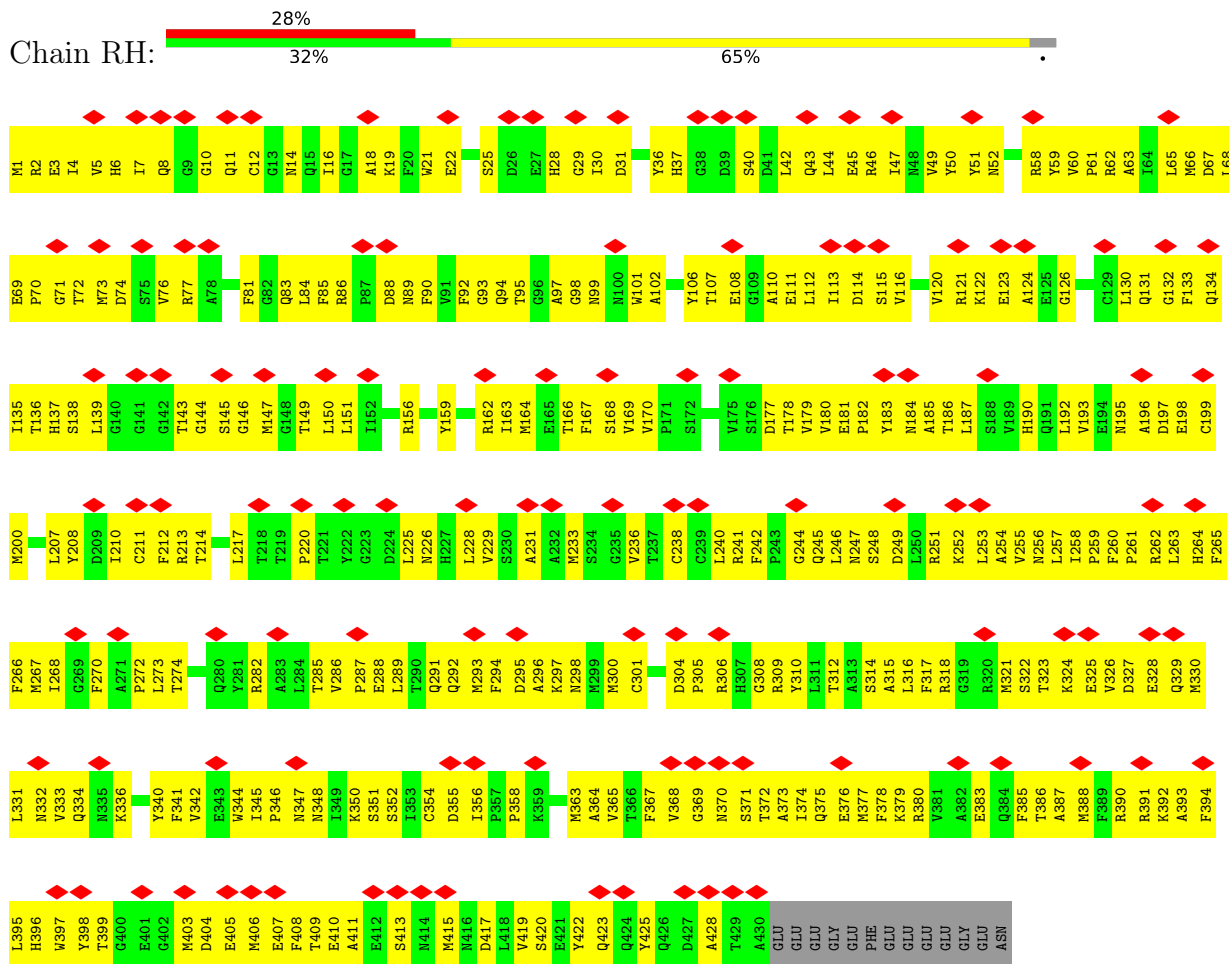


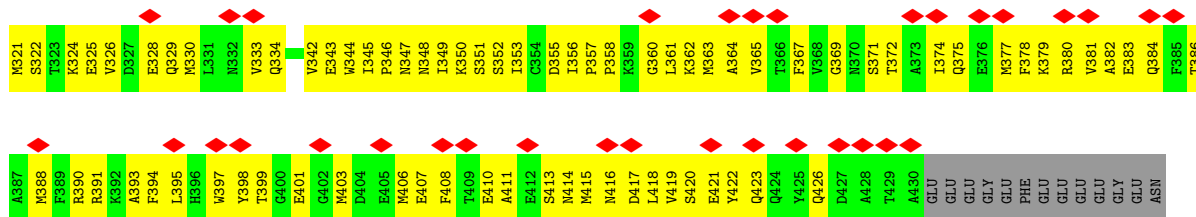


• Molecule 45: Tubulin beta chain

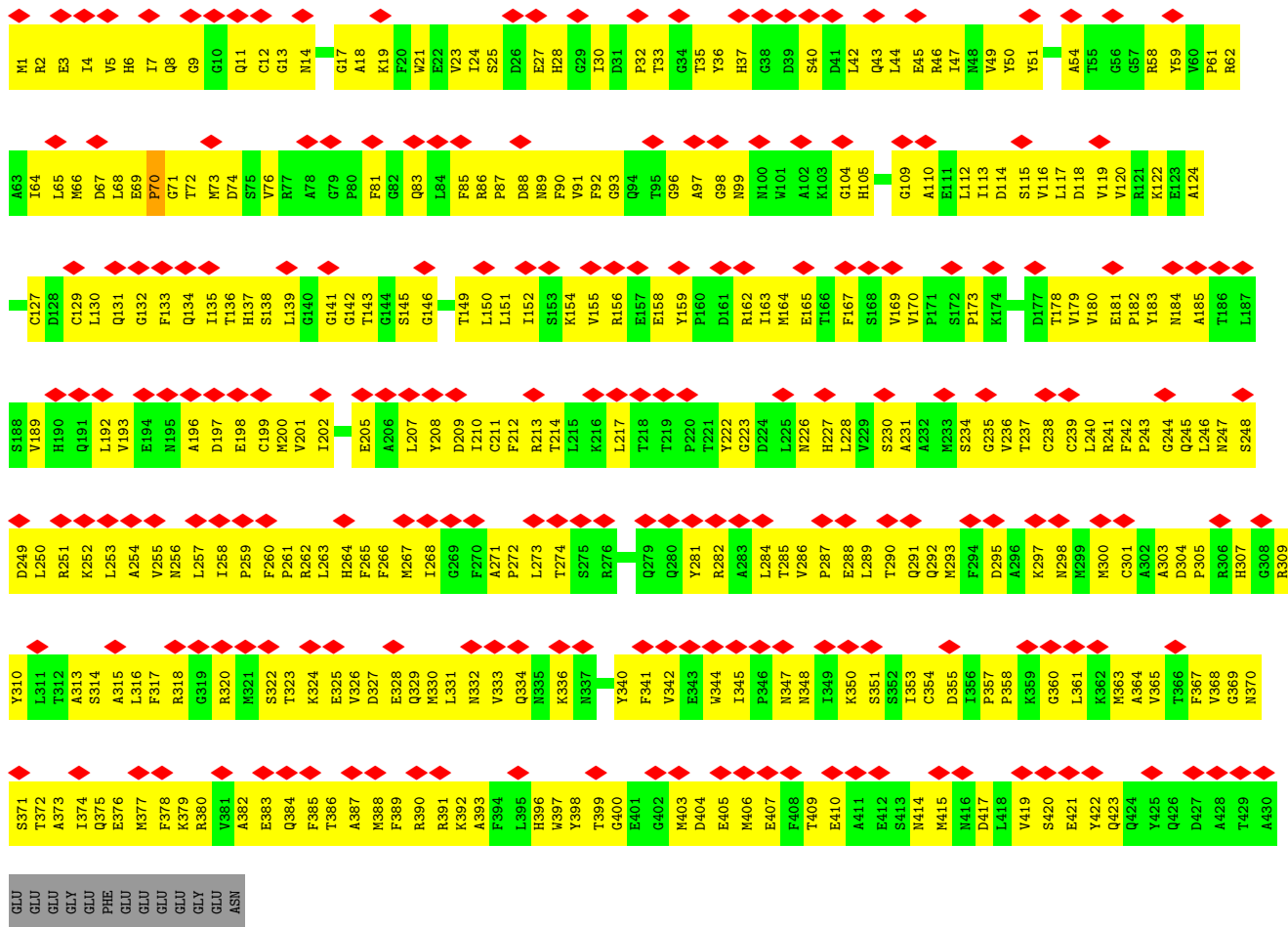


• Molecule 45: Tubulin beta chain

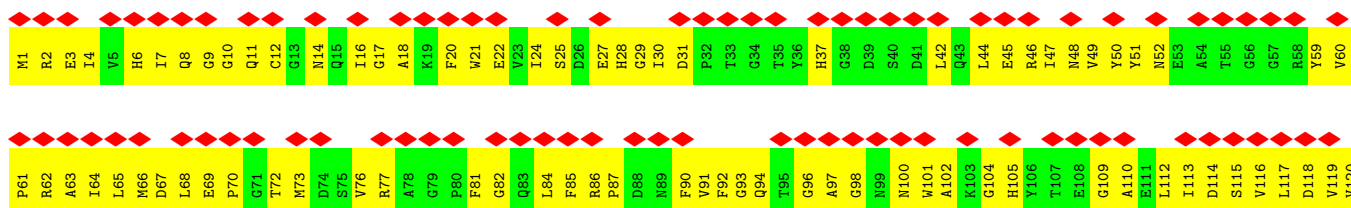
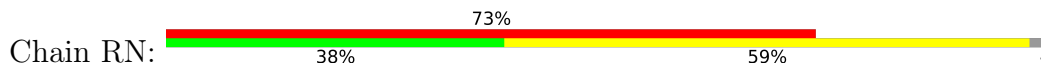


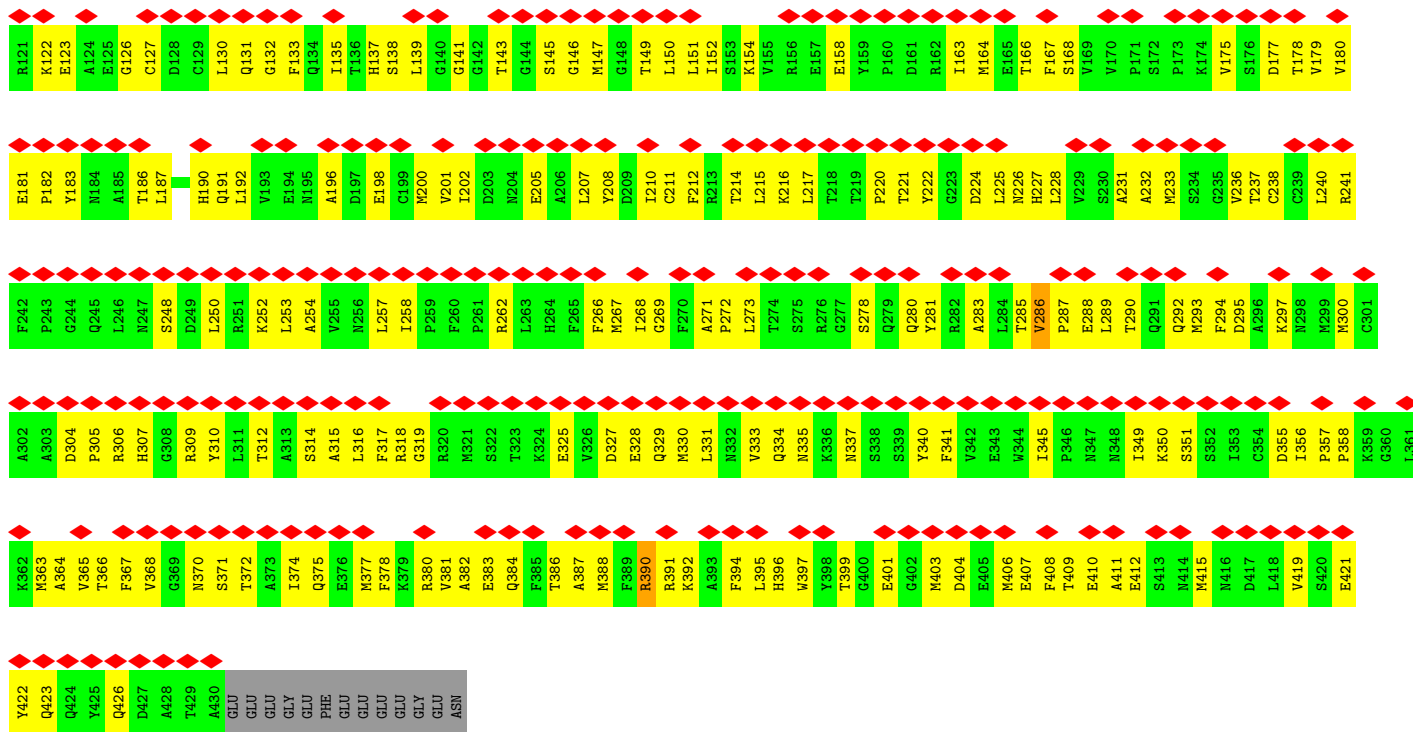


• Molecule 45: Tubulin beta chain

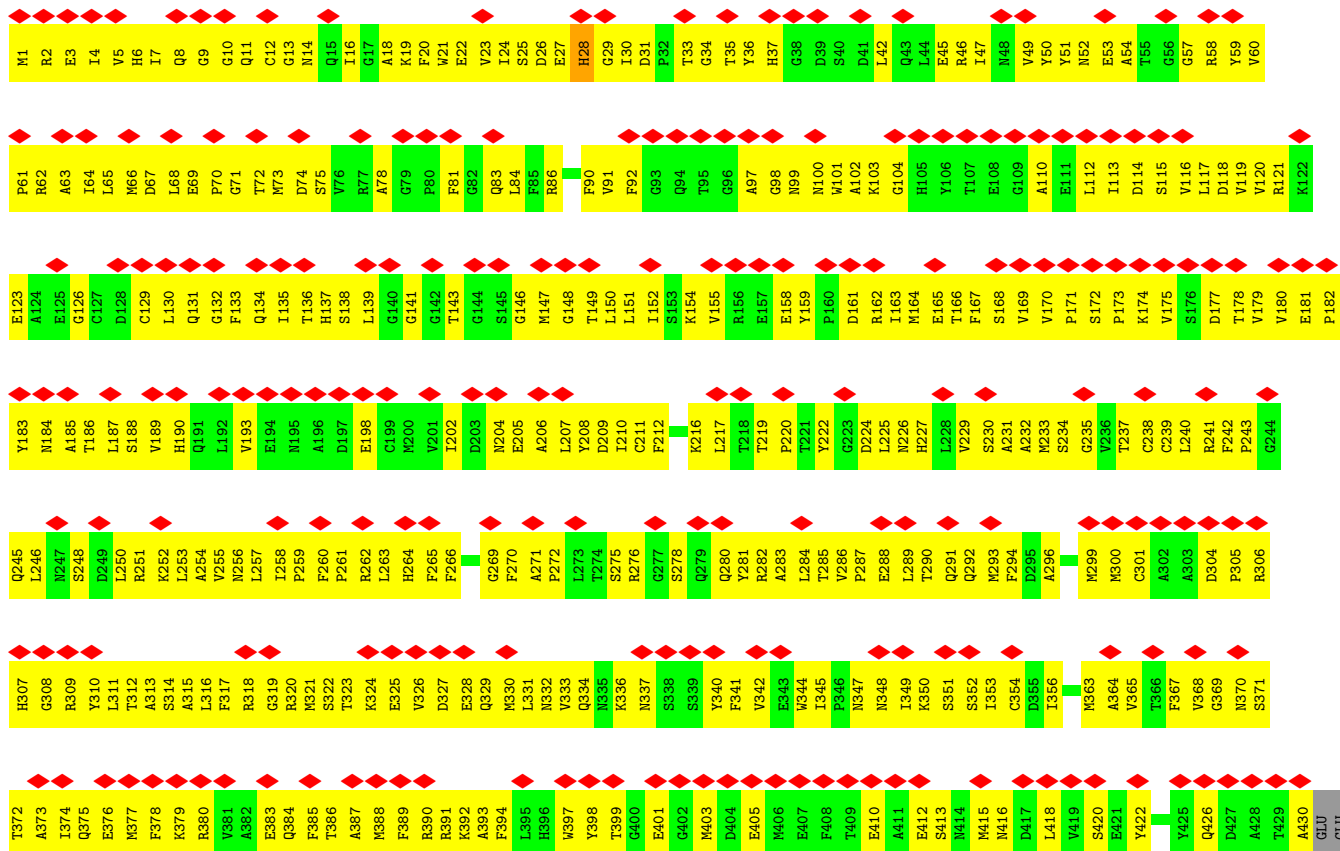


• Molecule 45: Tubulin beta chain

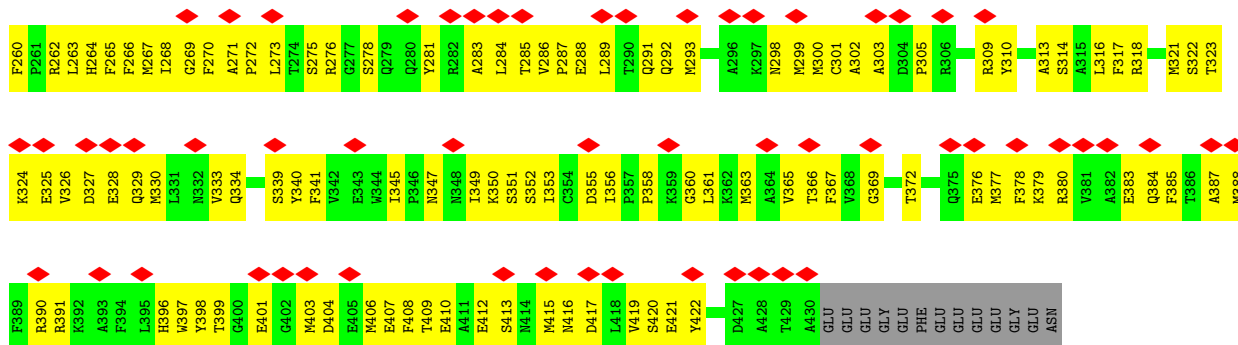




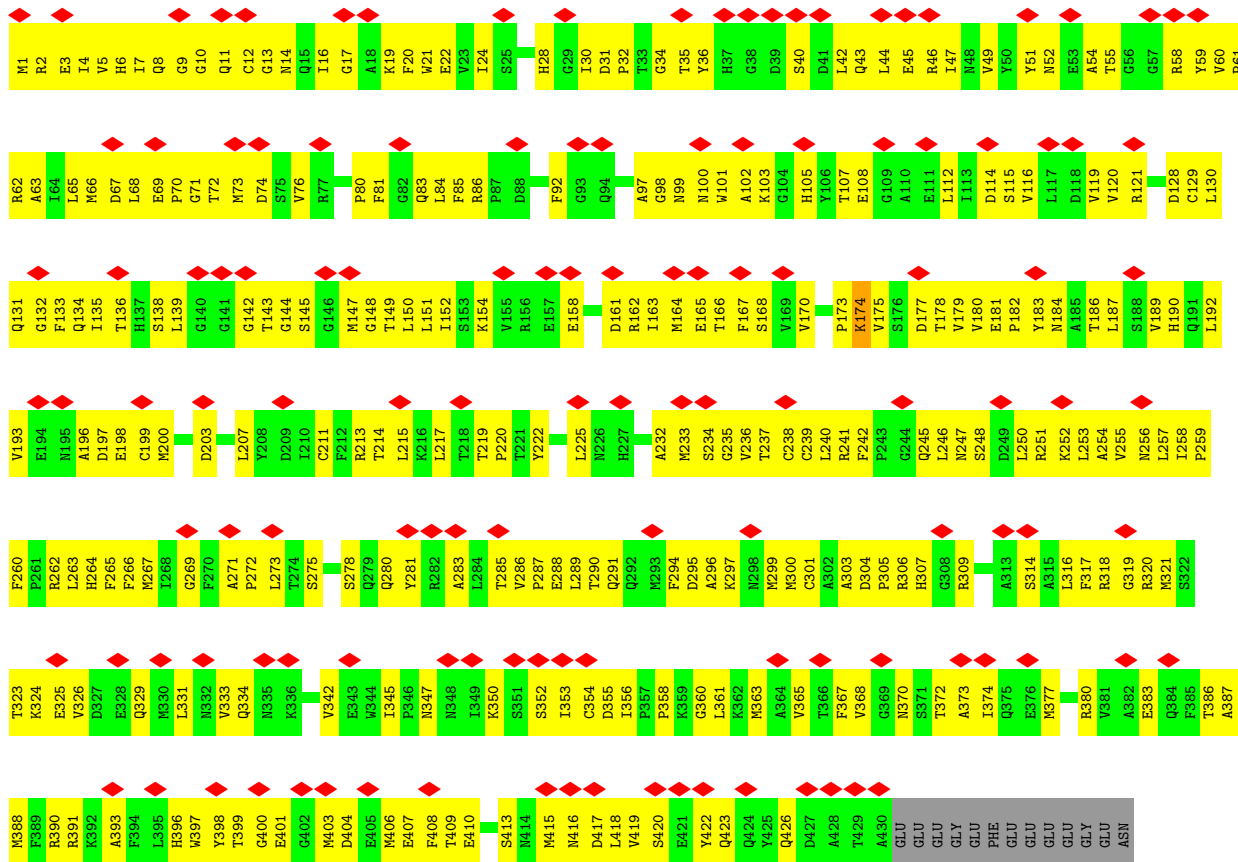
● Molecule 45: Tubulin beta chain



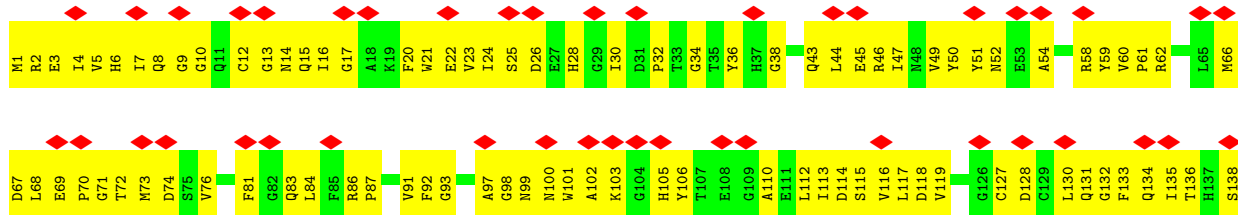




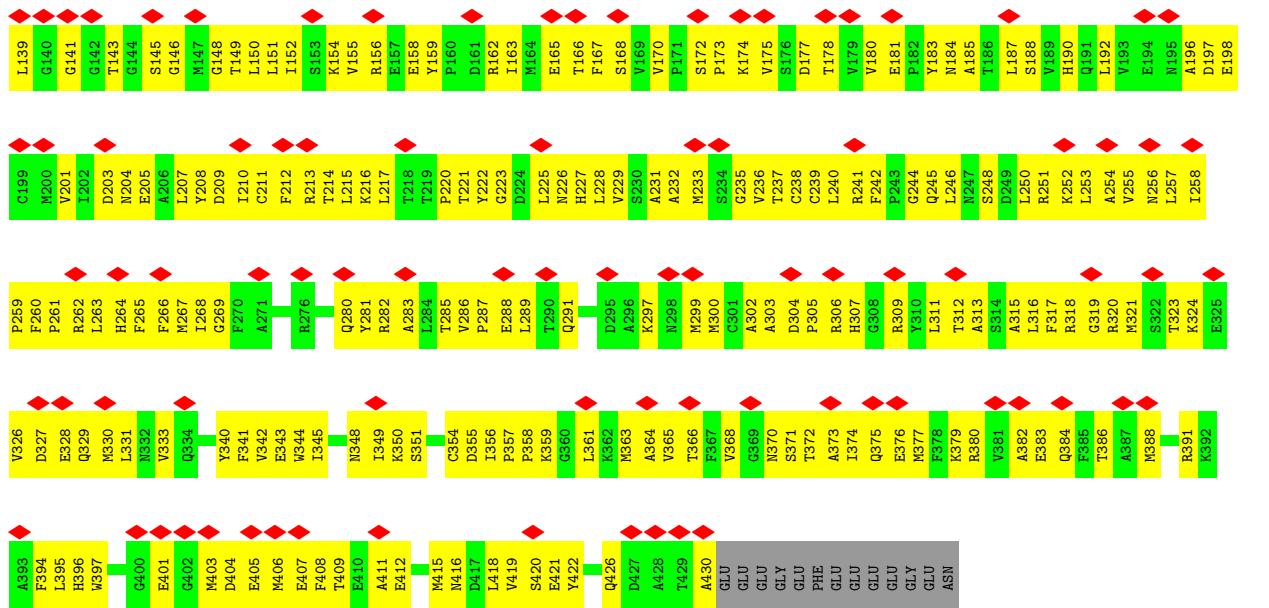
• Molecule 45: Tubulin beta chain



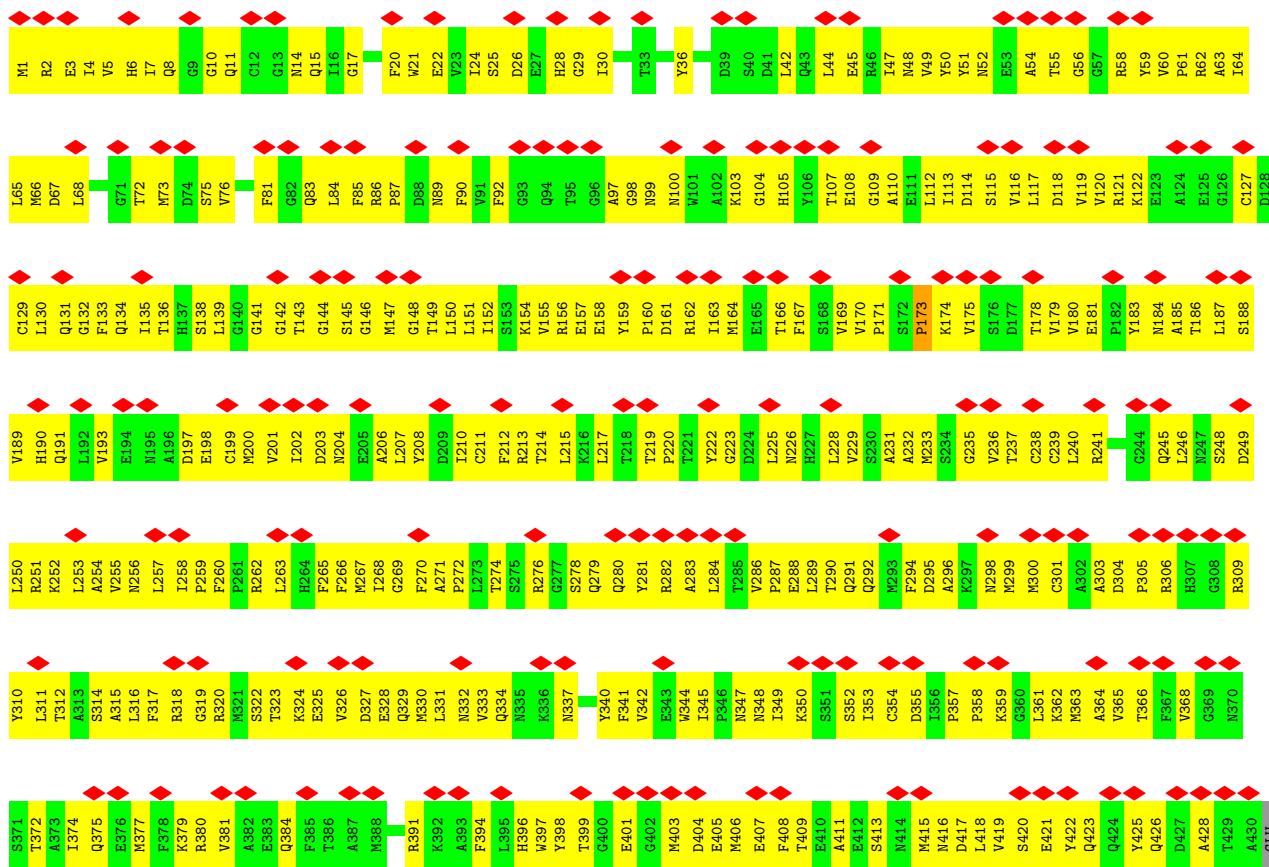
• Molecule 45: Tubulin beta chain





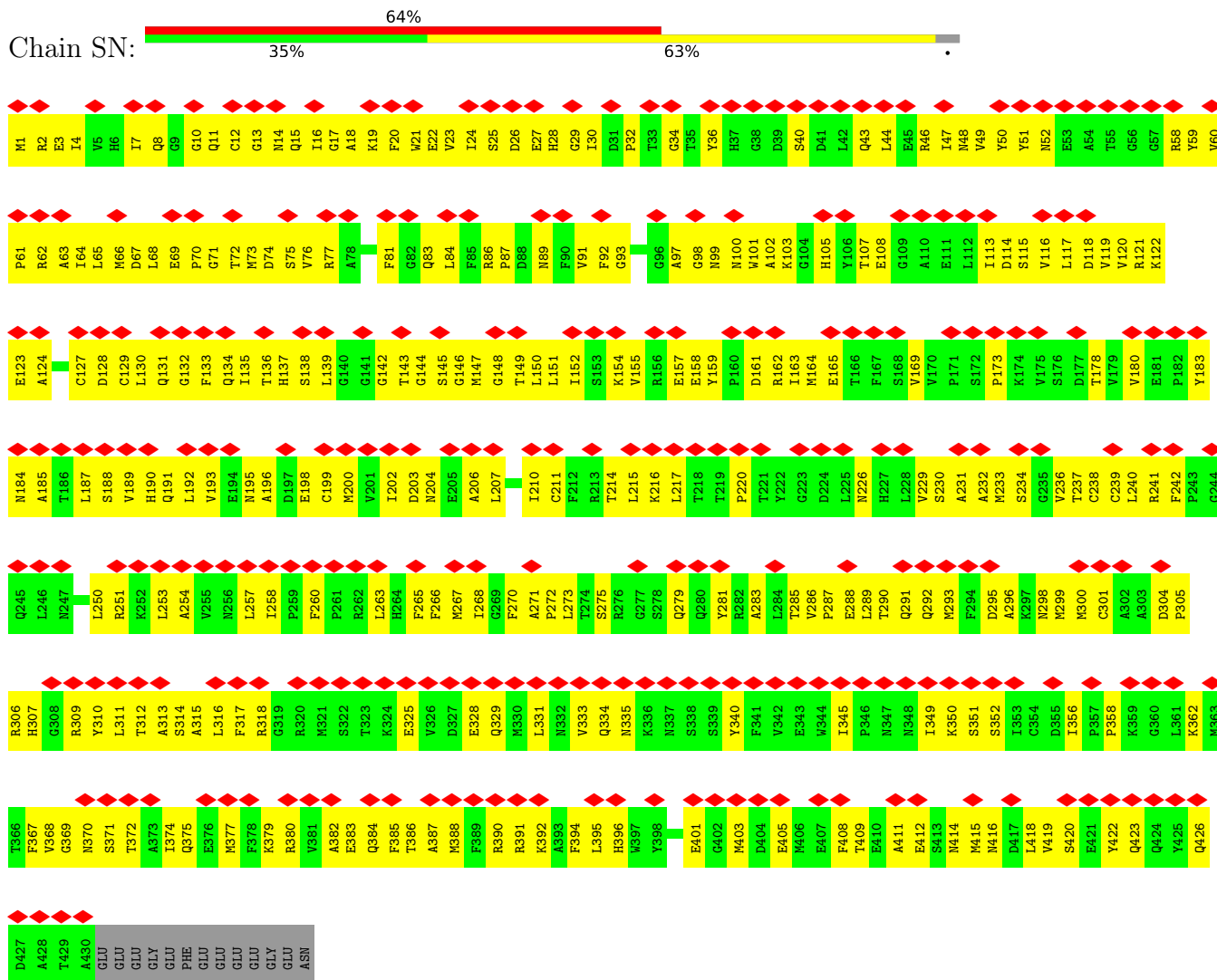


• Molecule 45: Tubulin beta chain

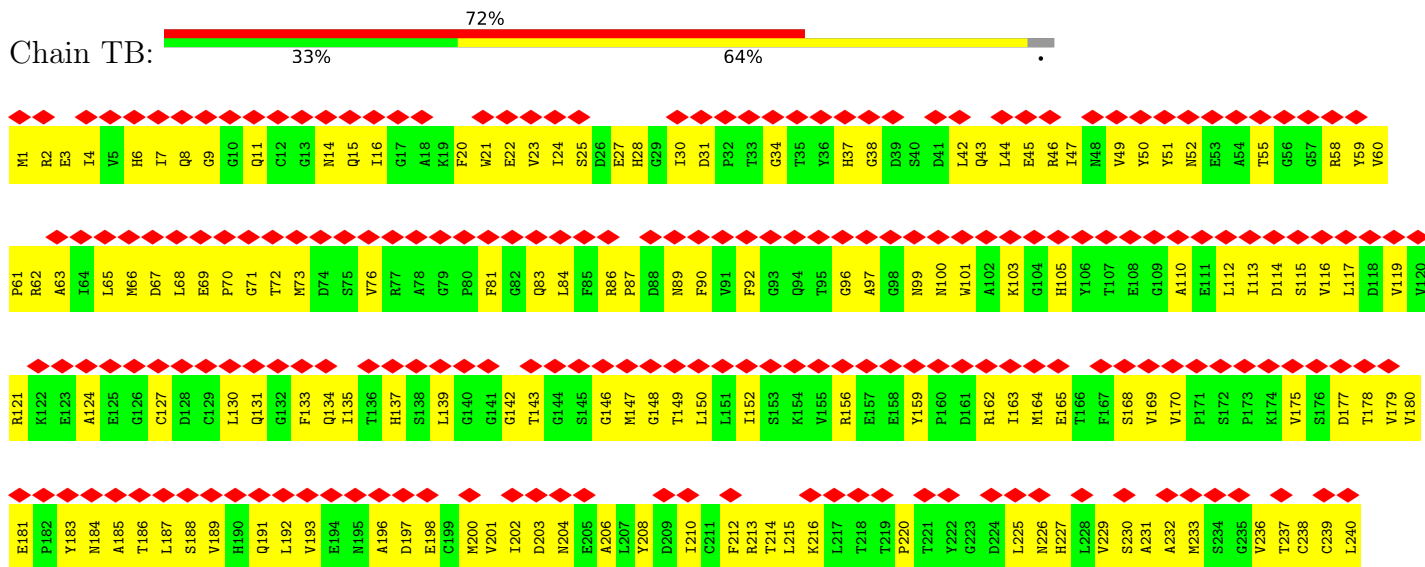


GLU  
GLU  
GLY  
GLU  
PHE  
GLU  
GLU  
GLU  
GLU  
GLY  
GLU  
GLU  
ASN

• Molecule 45: Tubulin beta chain

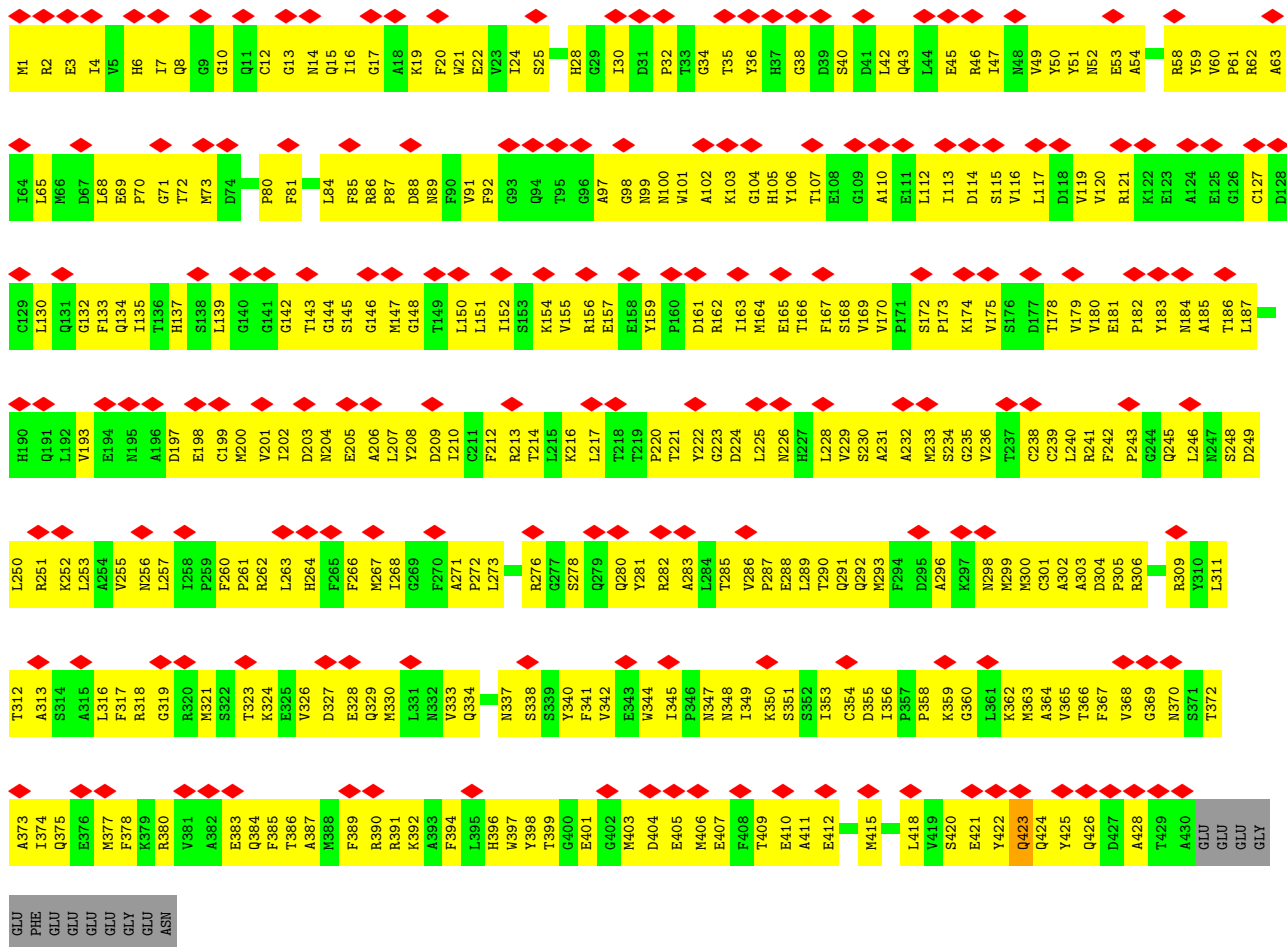


• Molecule 45: Tubulin beta chain



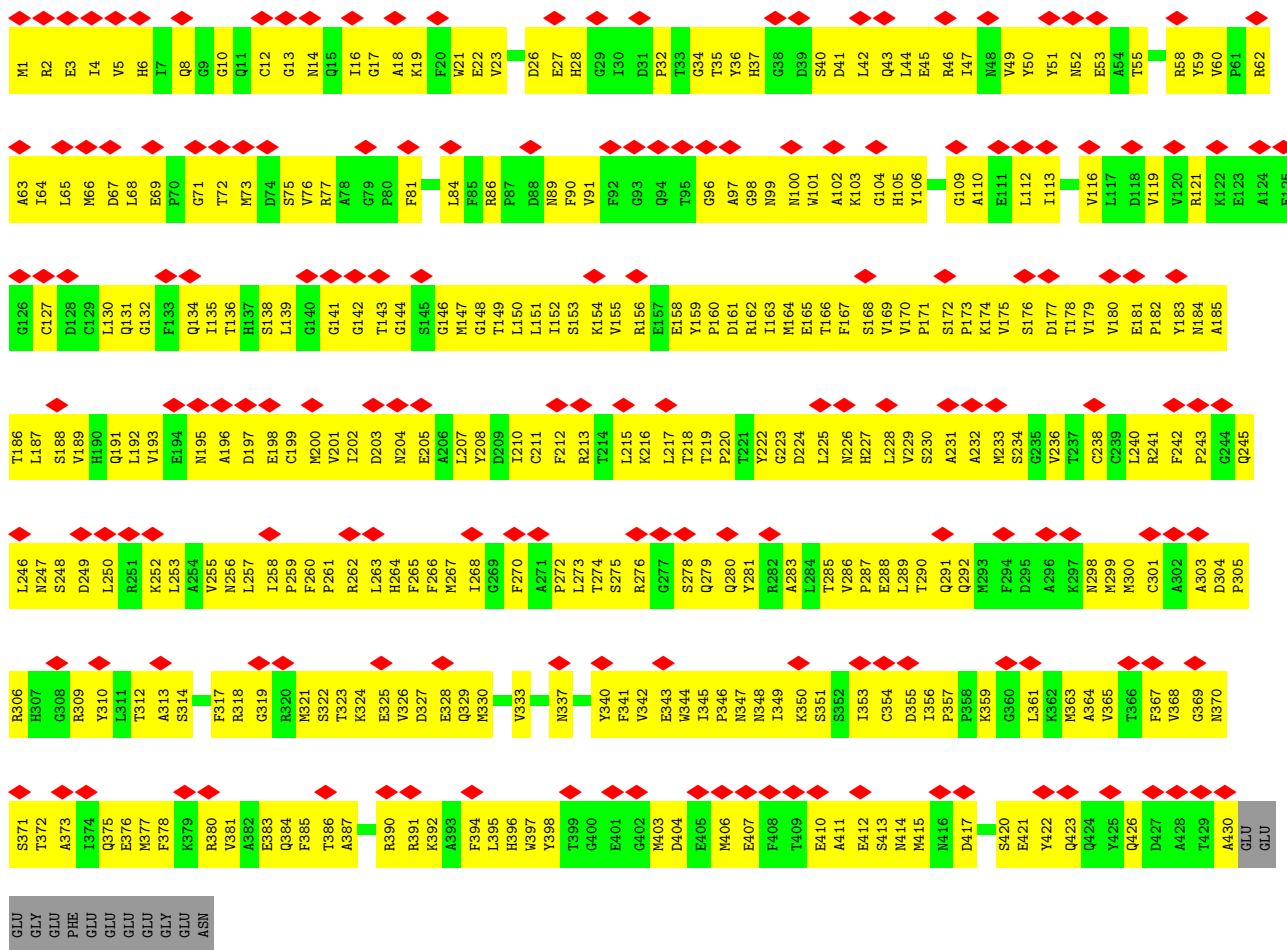


• Molecule 45: Tubulin beta chain

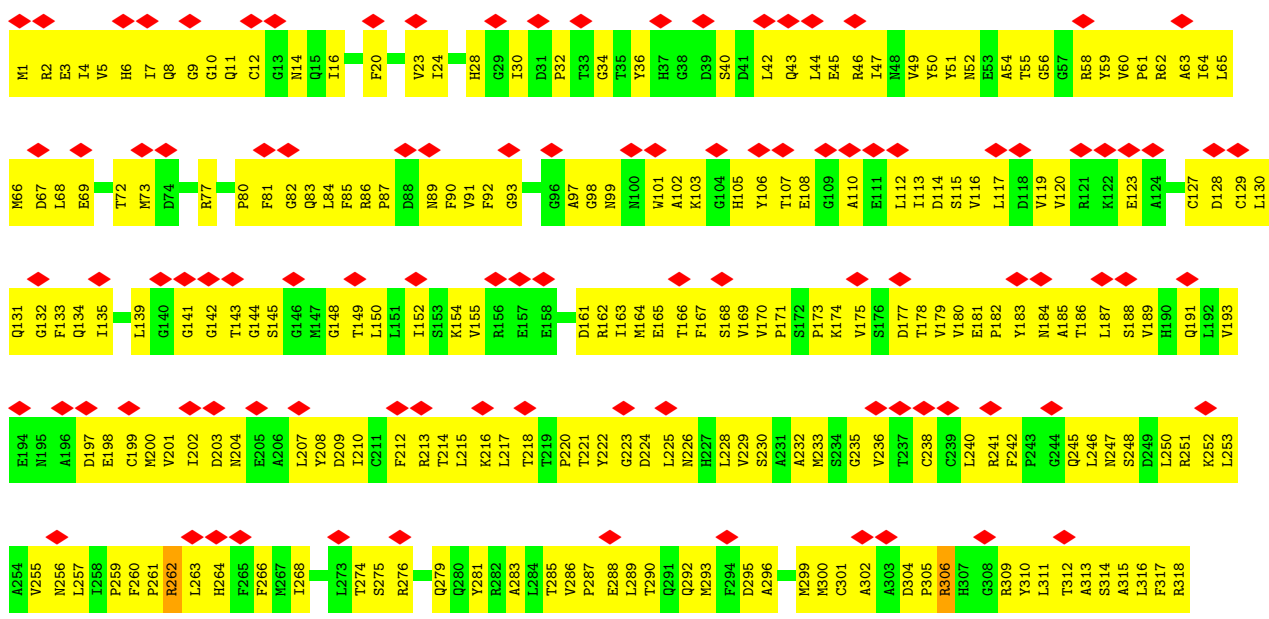


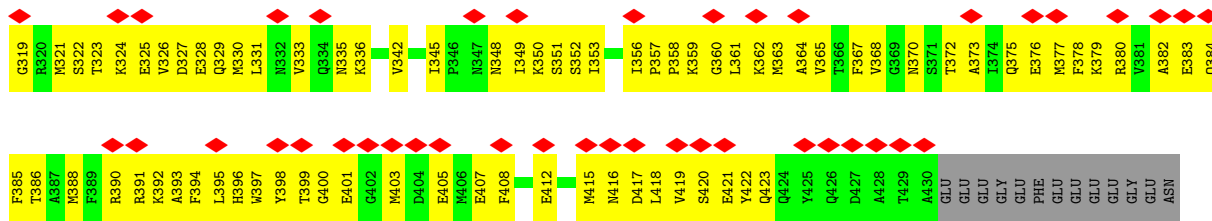
• Molecule 45: Tubulin beta chain



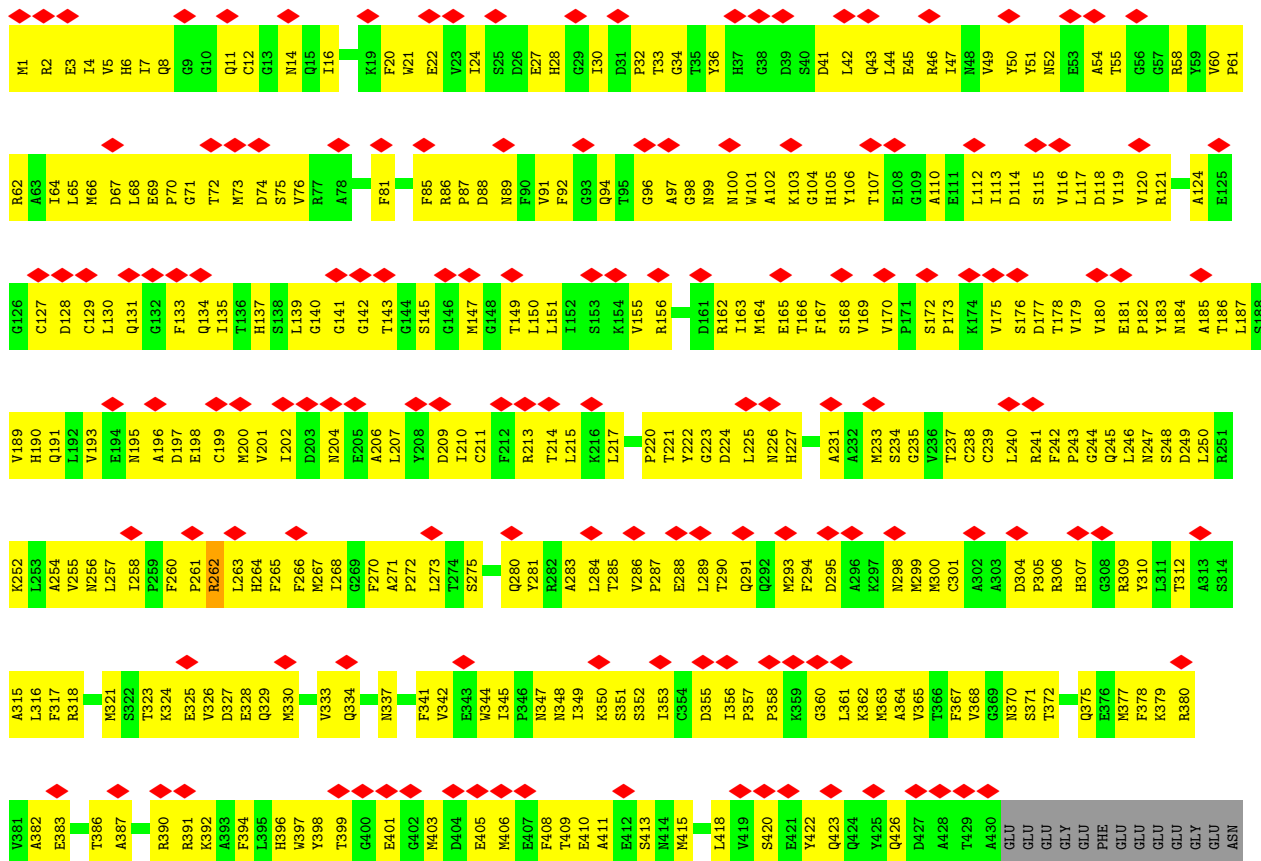


• Molecule 45: Tubulin beta chain

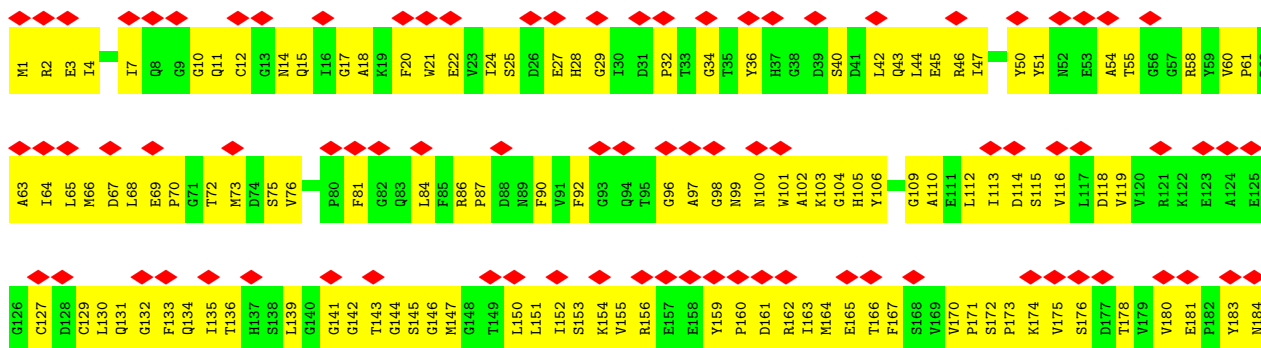


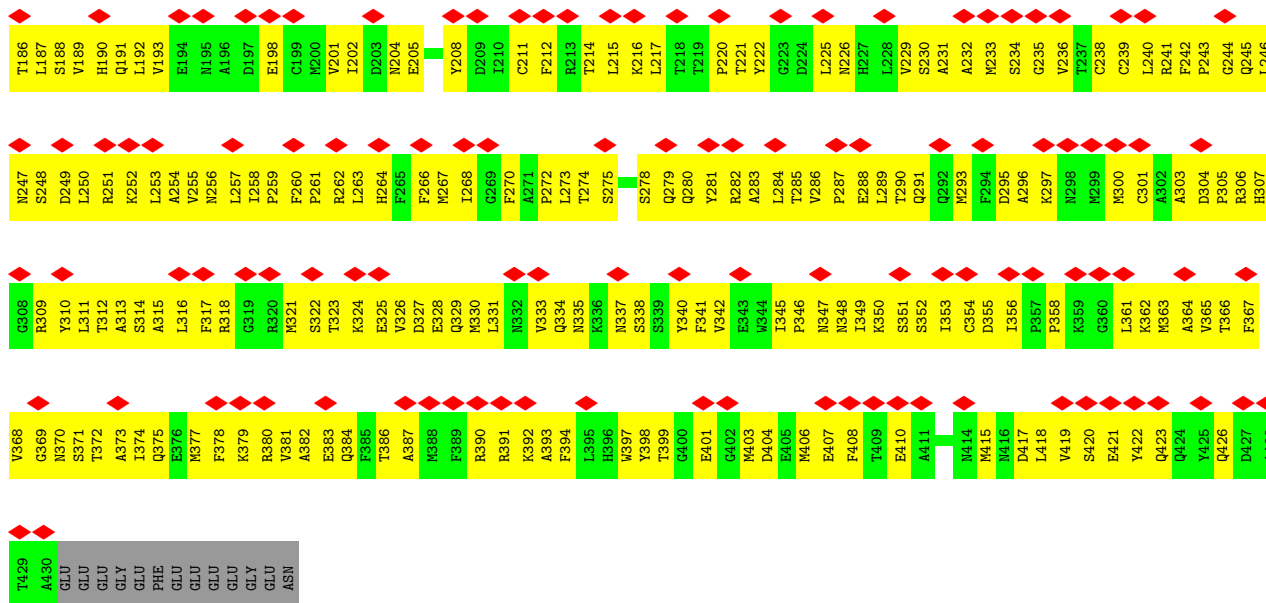


• Molecule 45: Tubulin beta chain

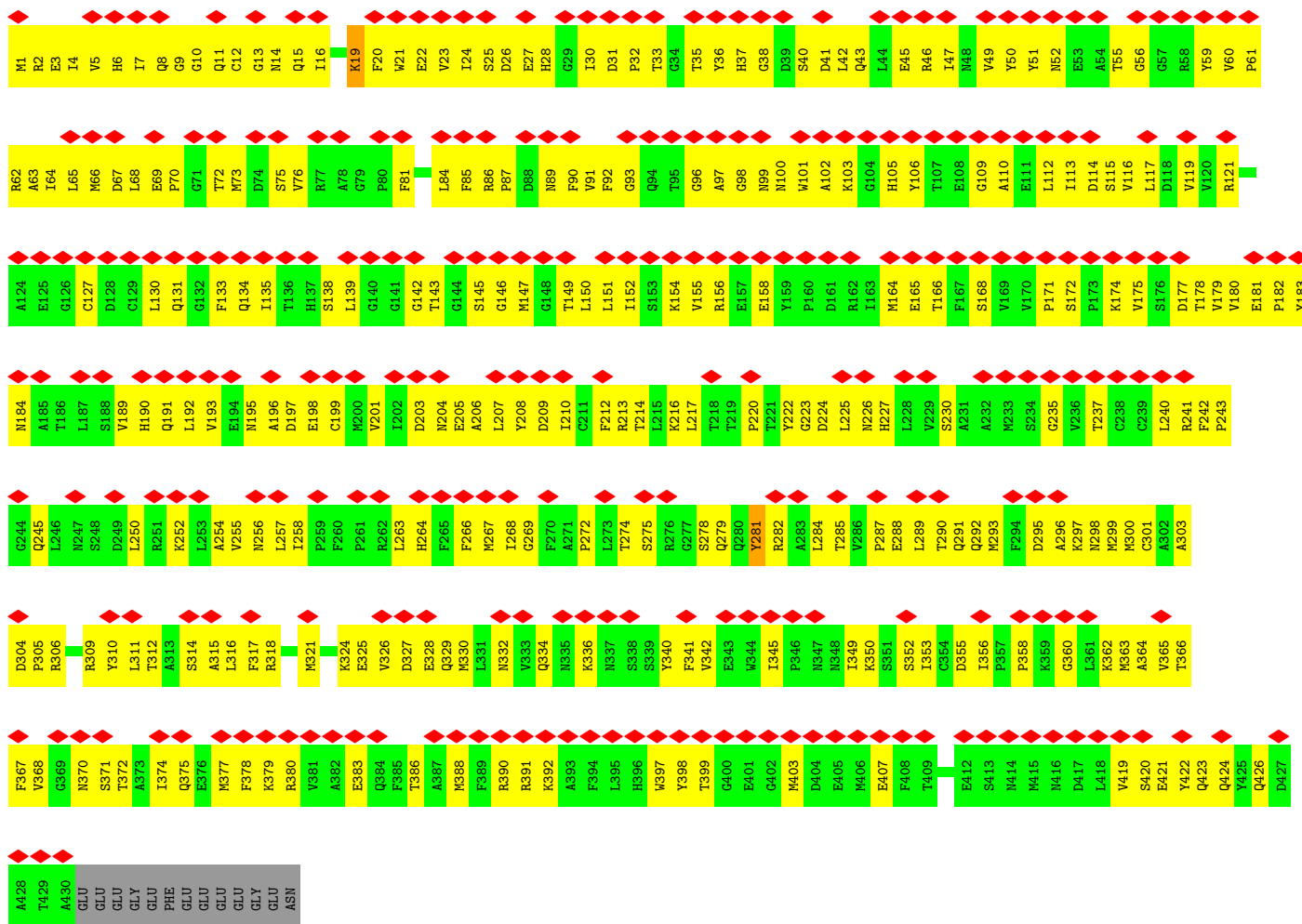


• Molecule 45: Tubulin beta chain

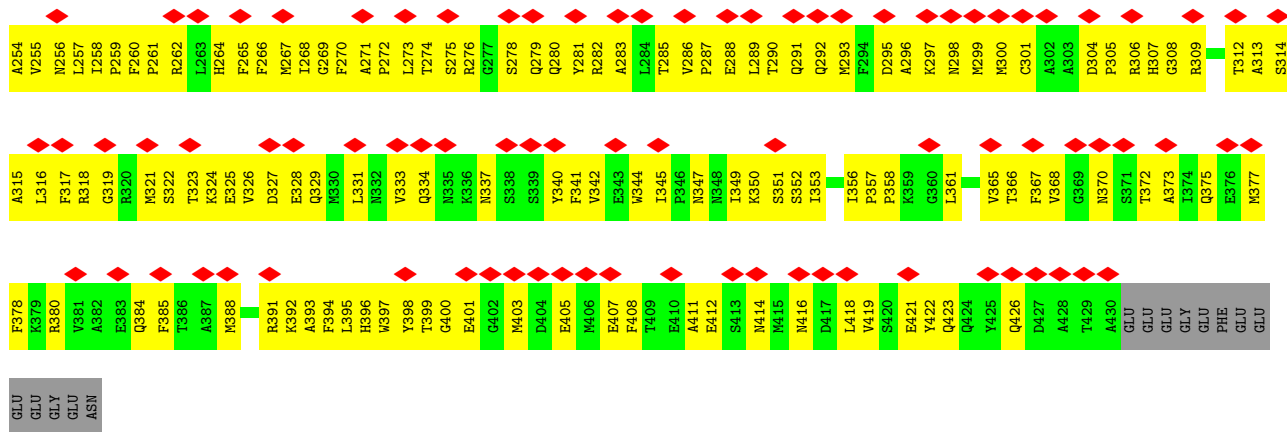




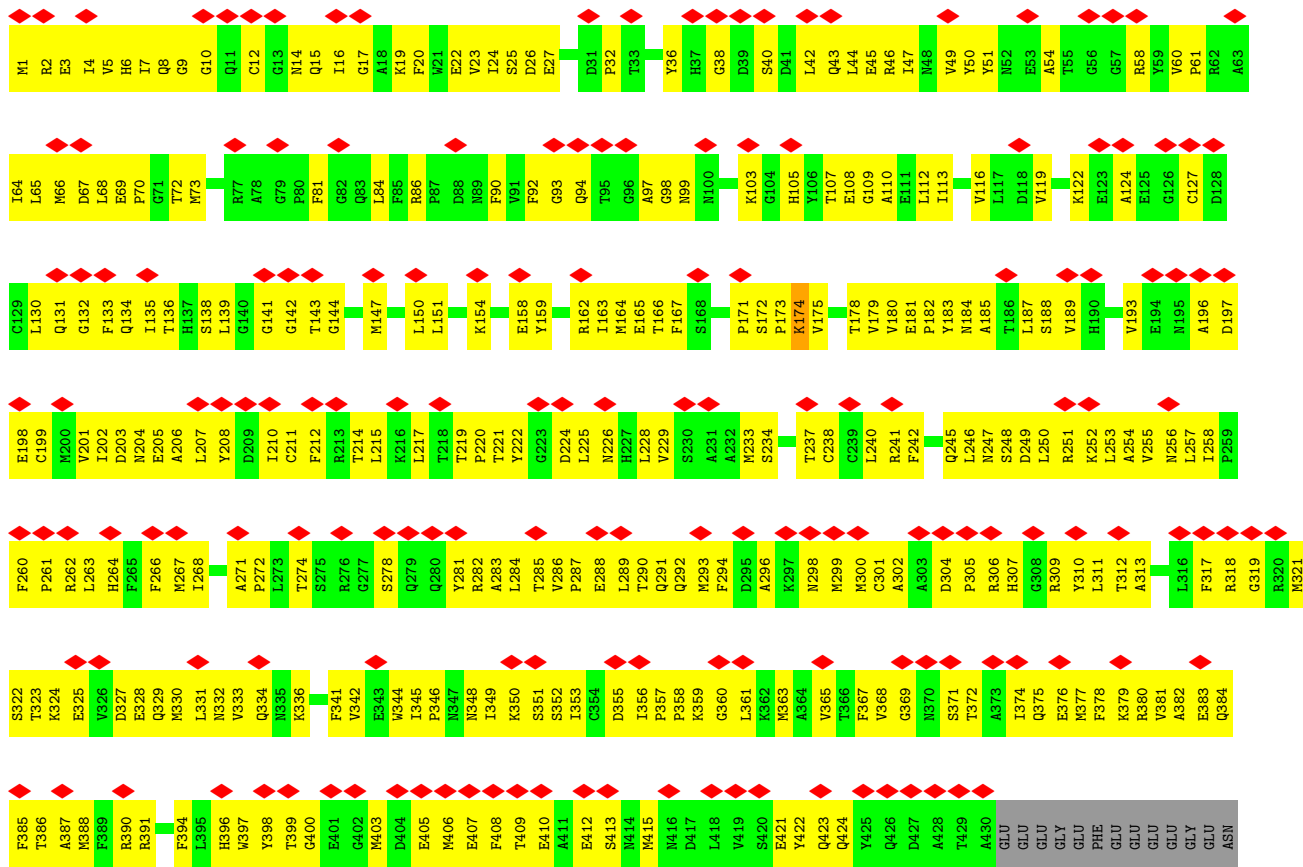
• Molecule 45: Tubulin beta chain



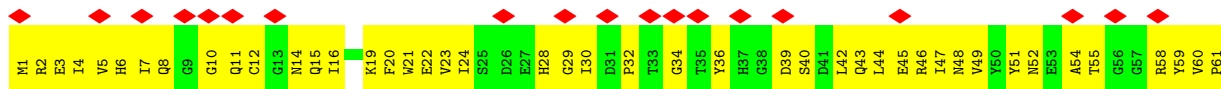
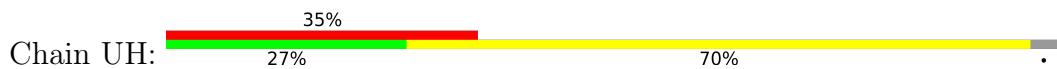




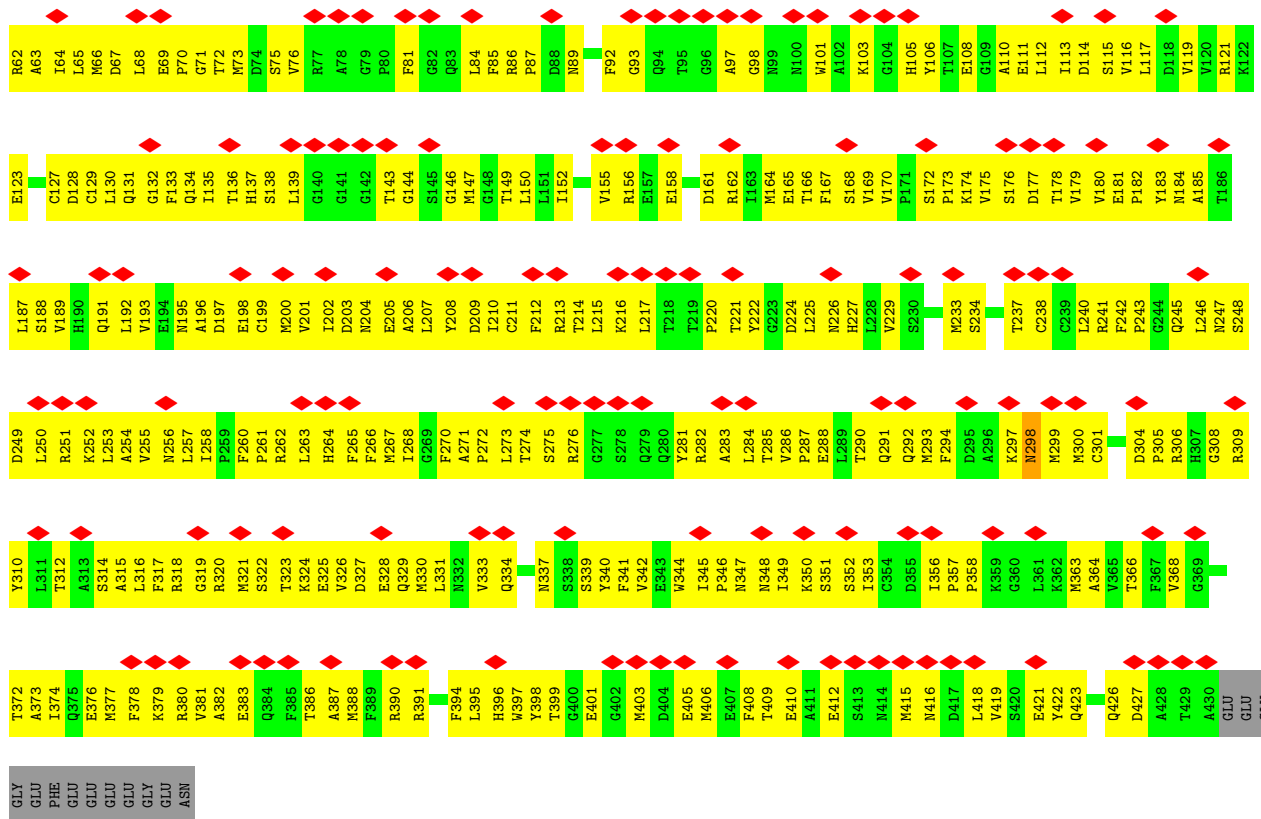
• Molecule 45: Tubulin beta chain



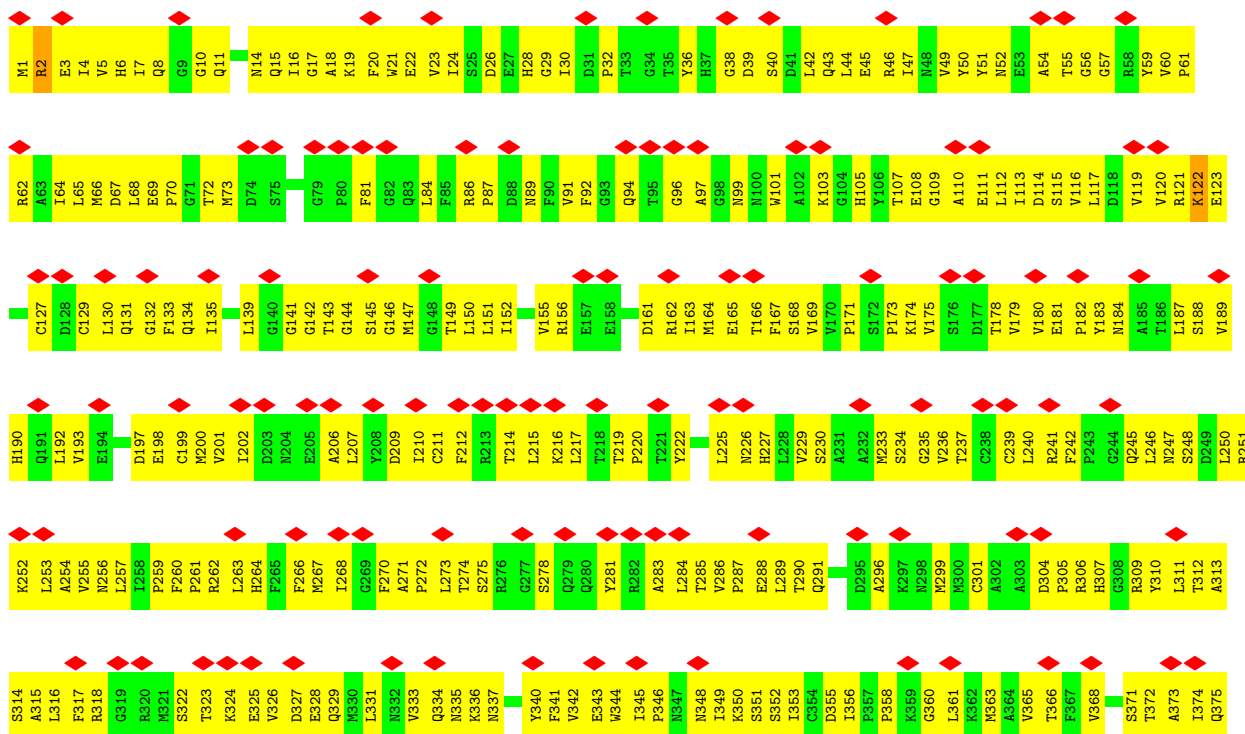
• Molecule 45: Tubulin beta chain

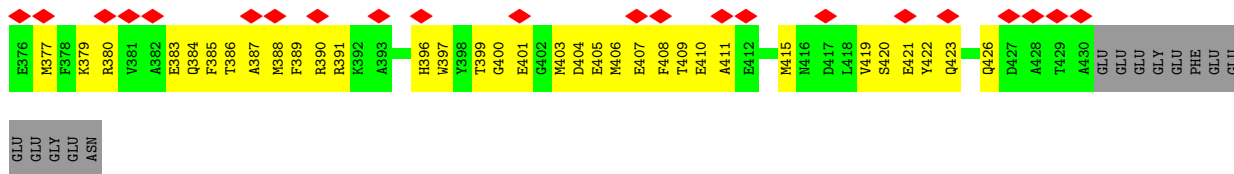




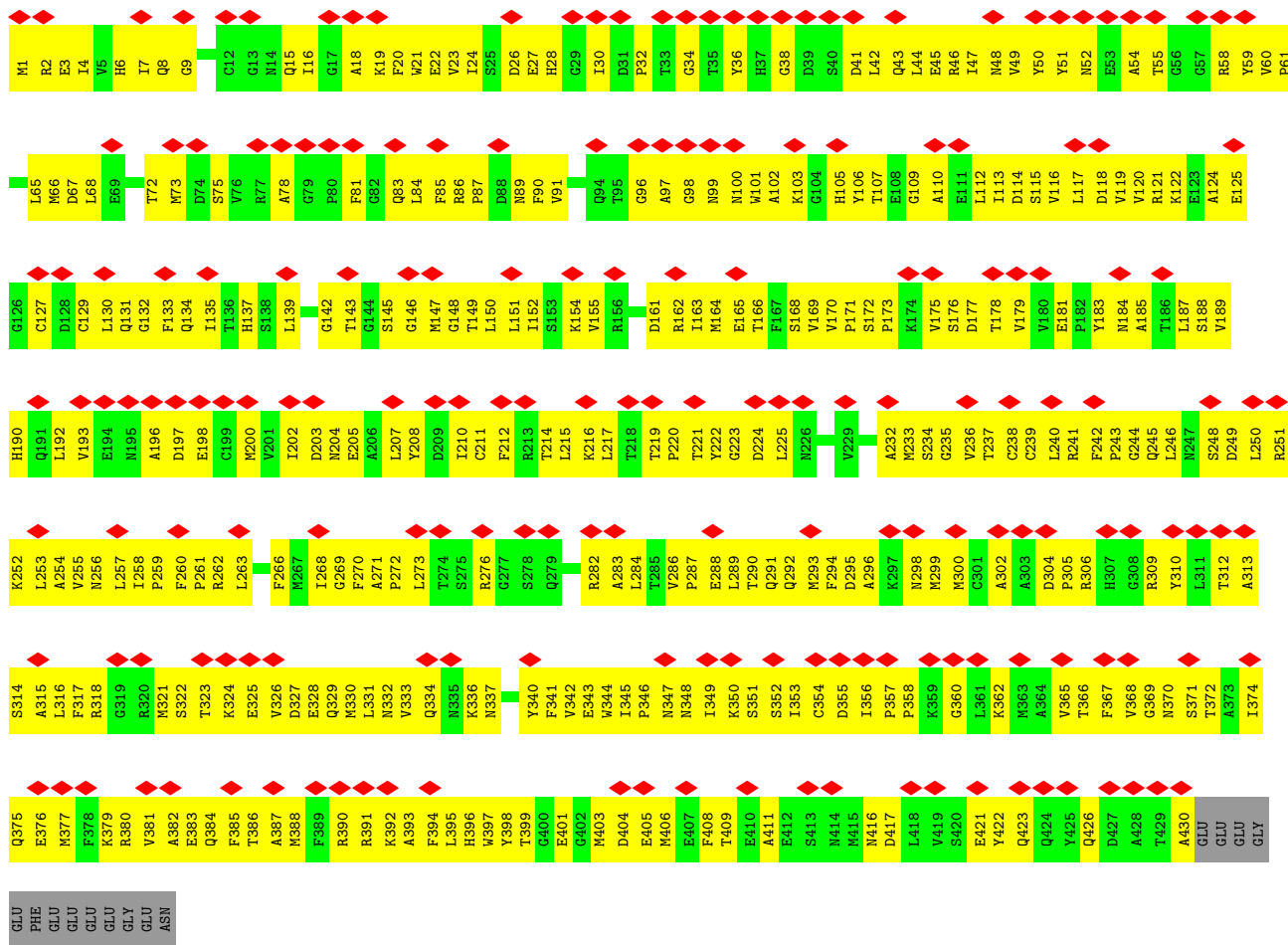


• Molecule 45: Tubulin beta chain

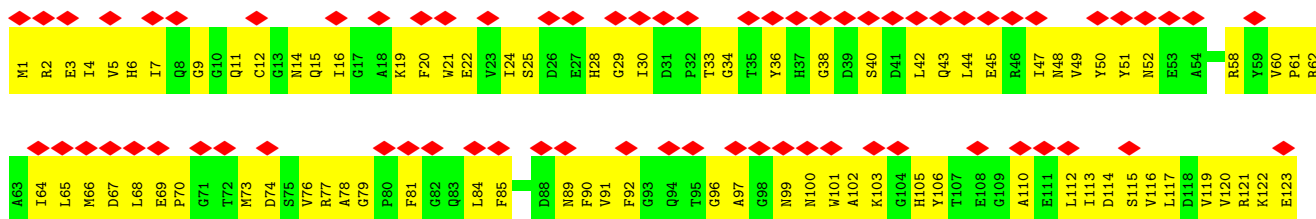


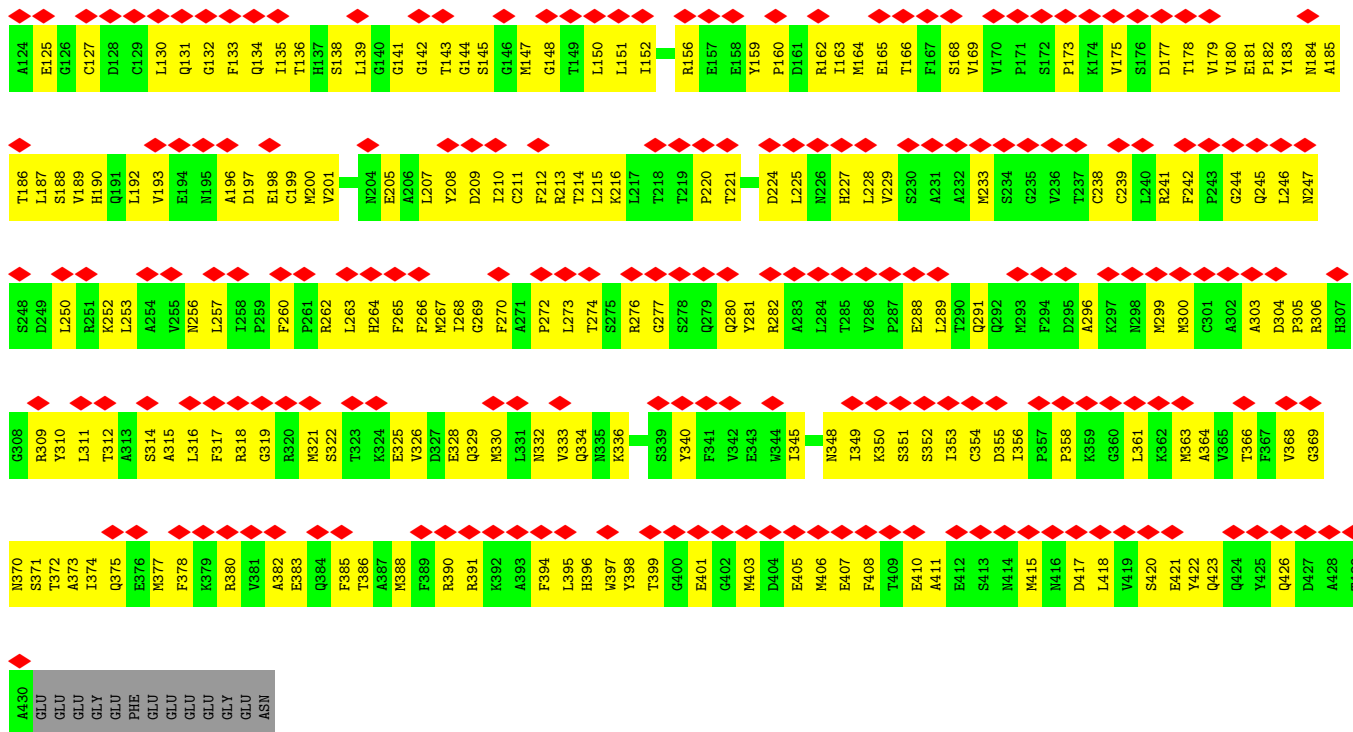


• Molecule 45: Tubulin beta chain

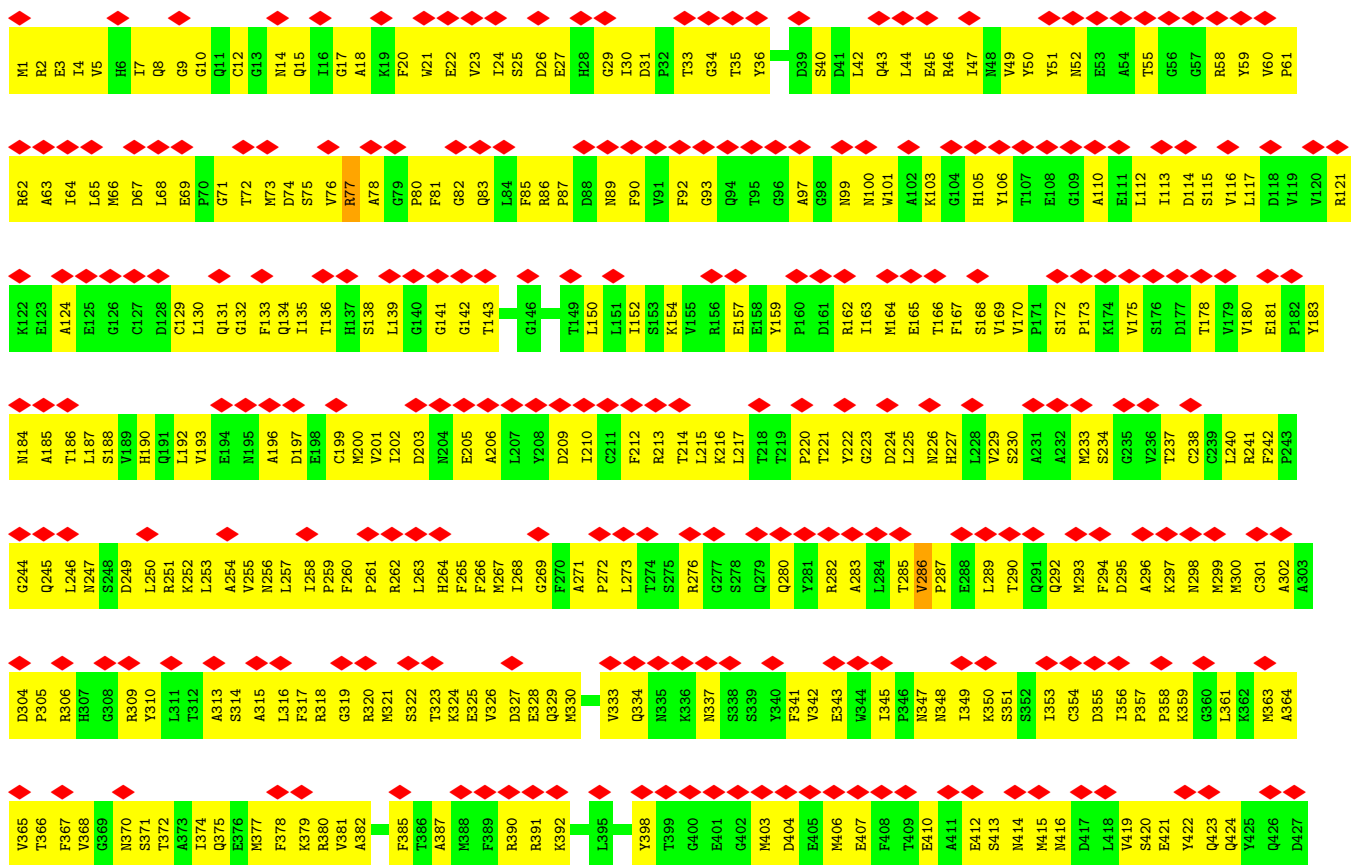


• Molecule 45: Tubulin beta chain





• Molecule 45: Tubulin beta chain

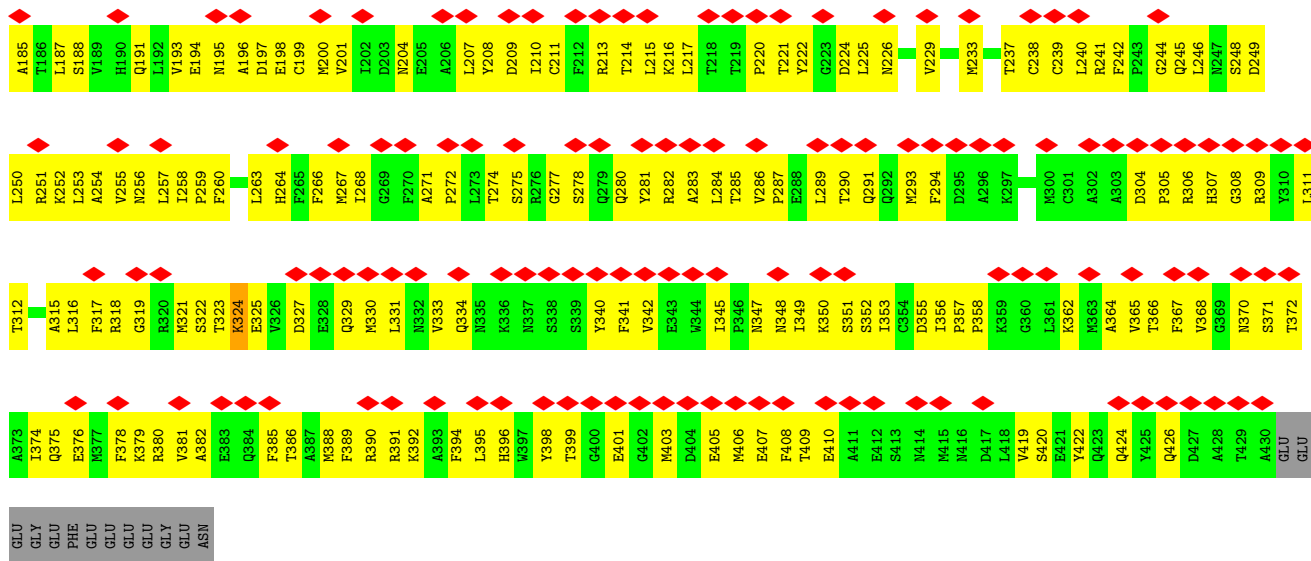




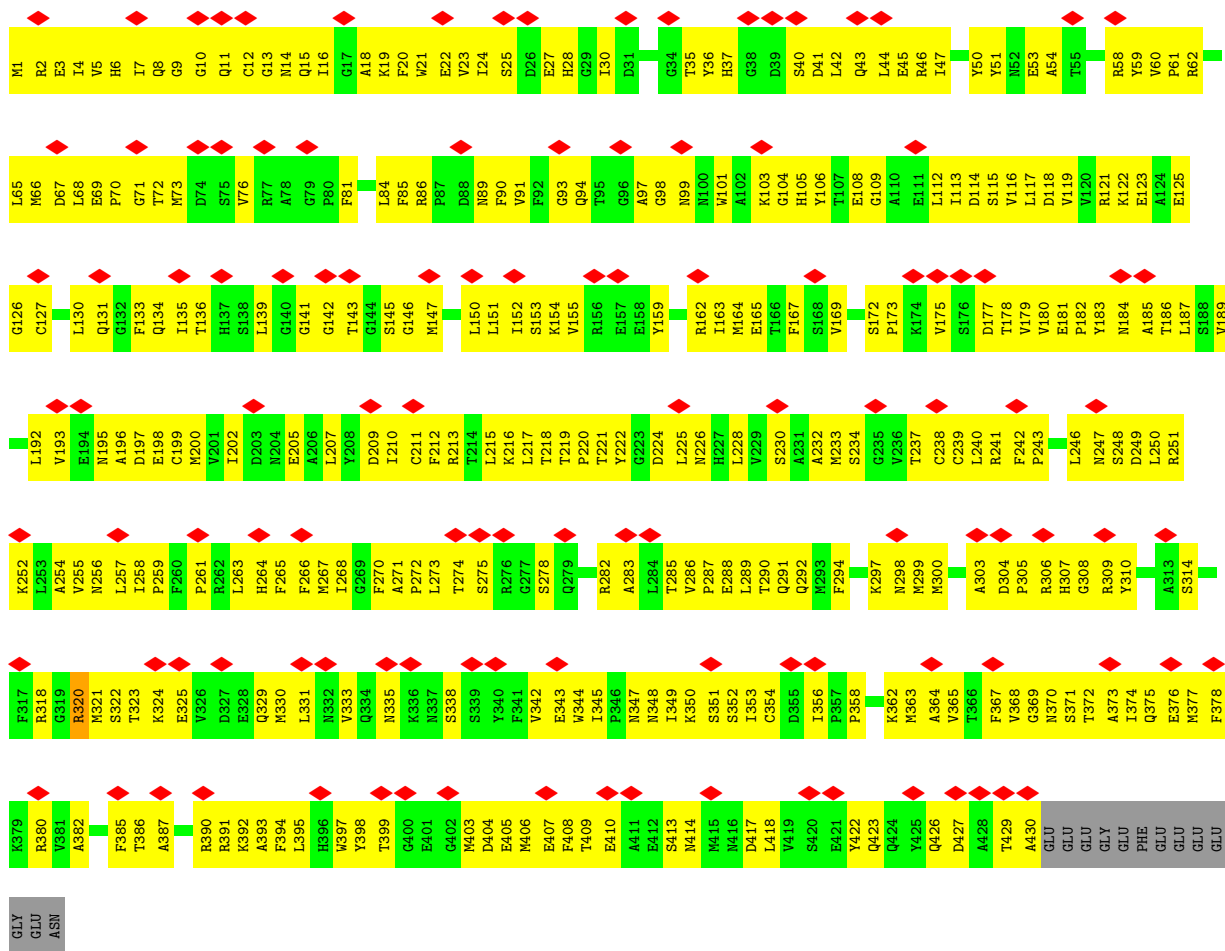








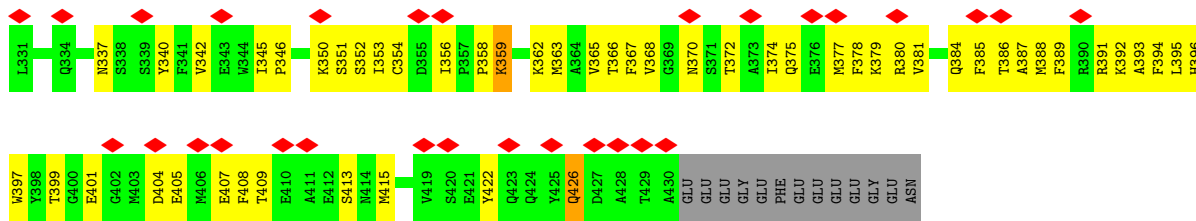
• Molecule 45: Tubulin beta chain



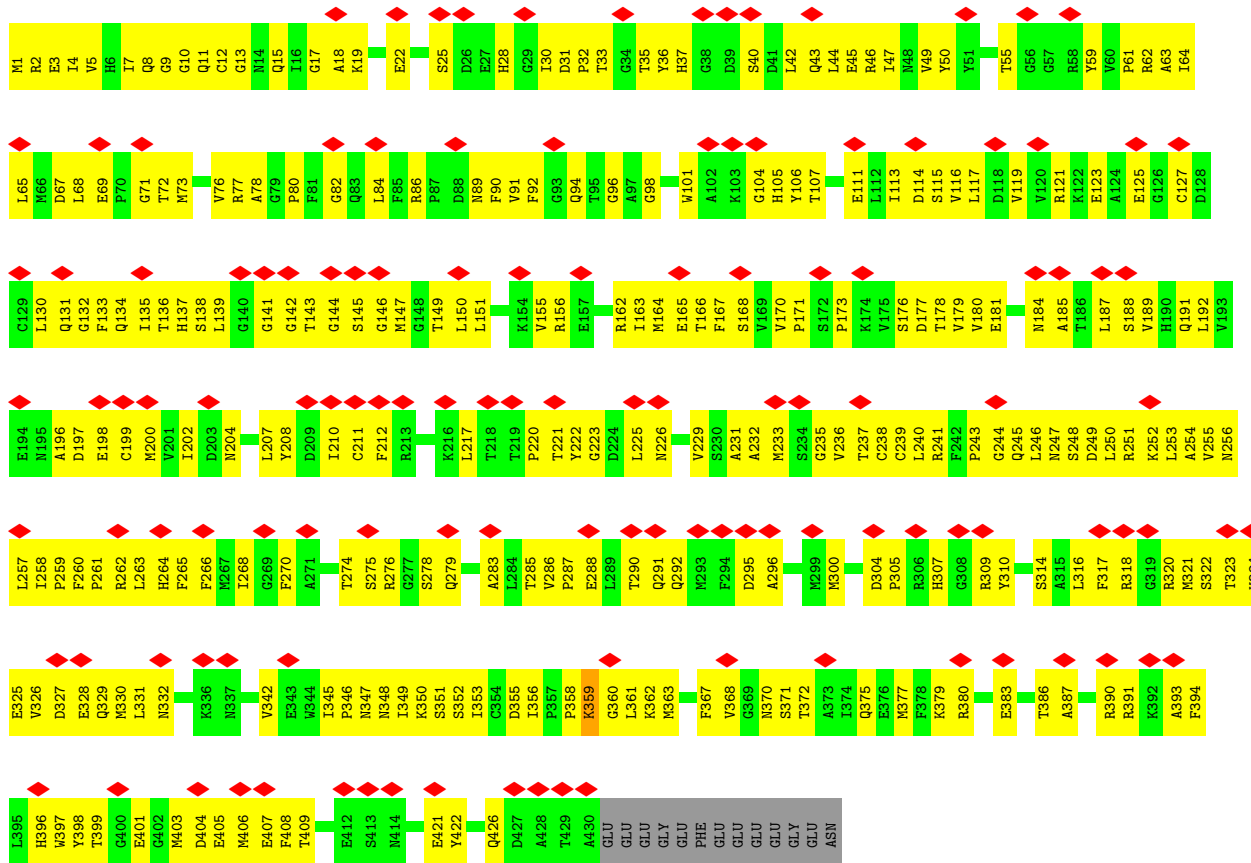
• Molecule 45: Tubulin beta chain



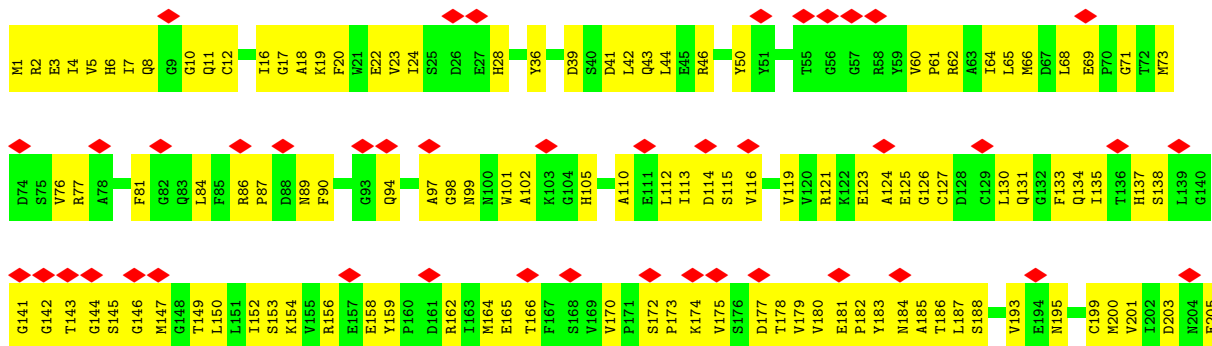


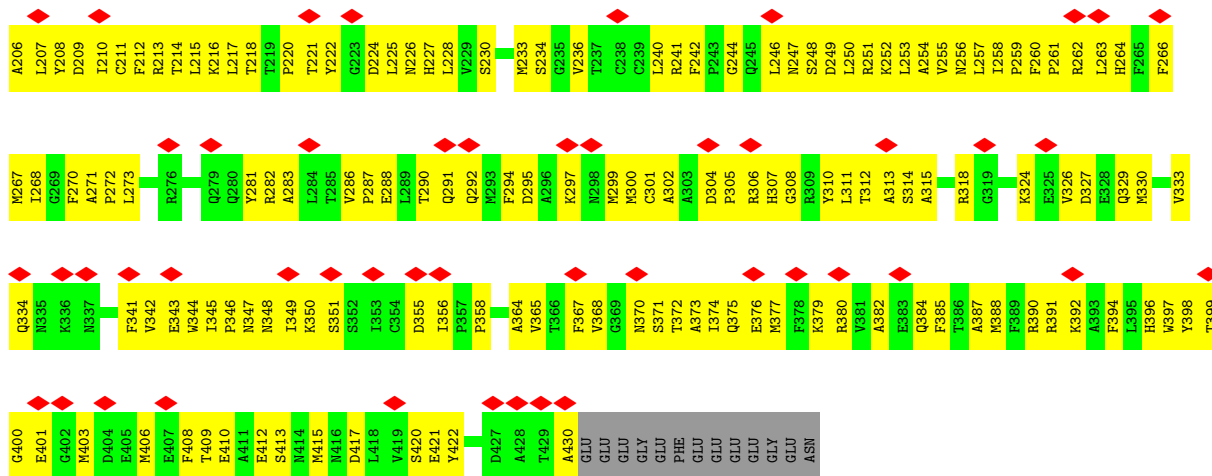


• Molecule 45: Tubulin beta chain

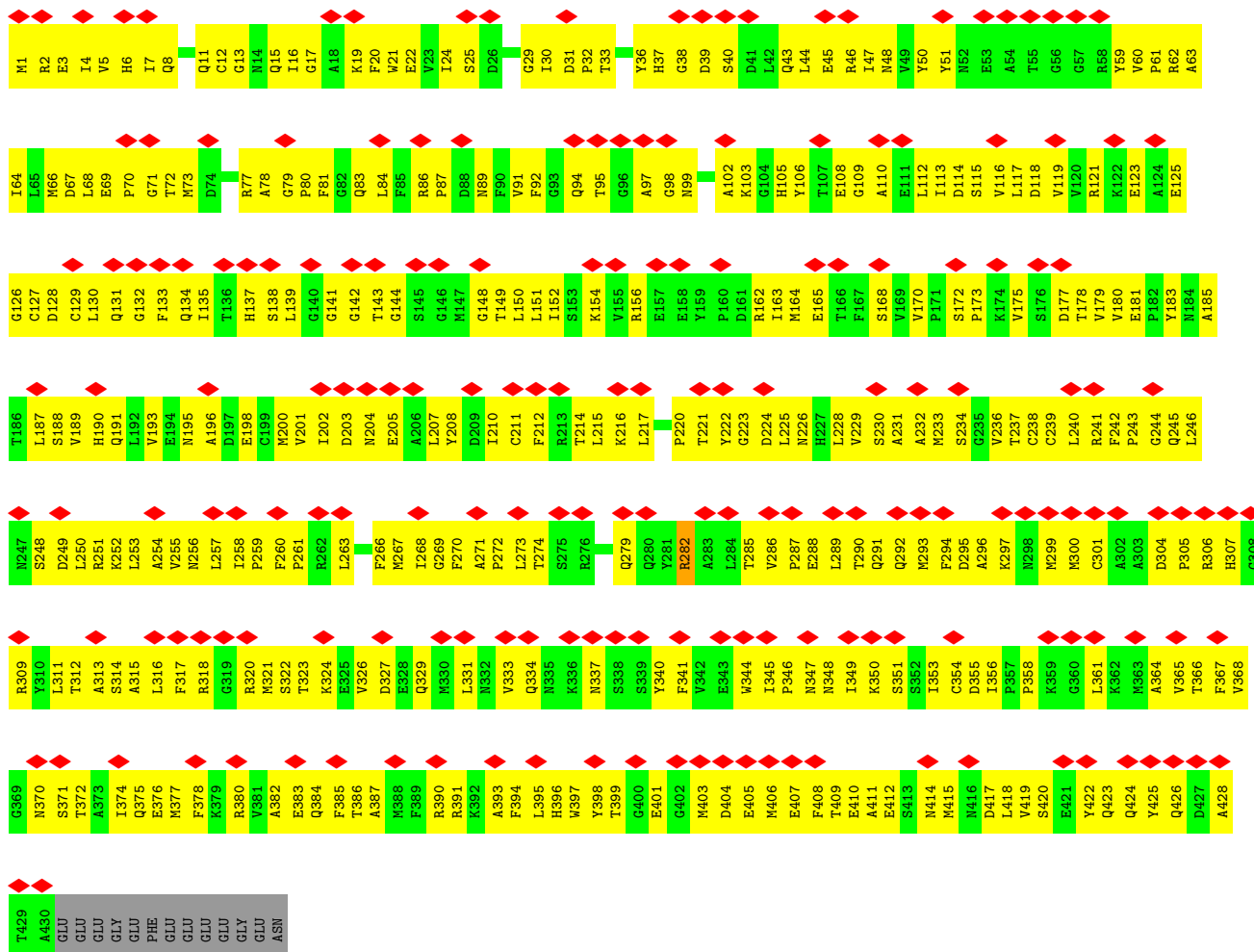


• Molecule 45: Tubulin beta chain





• Molecule 45: Tubulin beta chain



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	39417	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.579	Depositor
Minimum map value	-0.003	Depositor
Average map value	0.010	Depositor
Map value standard deviation	0.078	Depositor
Recommended contour level	0.15	Depositor
Map size ( $\text{\AA}$ )	701.44, 701.44, 701.44	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.37, 1.37, 1.37	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GDP, MG, GTP

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	6H	0.26	0/1398	0.55	0/1867
2	0A	0.26	0/1273	0.49	0/1733
2	1A	0.26	0/1273	0.51	0/1733
2	2A	0.27	0/1273	0.51	0/1733
2	3A	0.26	0/1273	0.49	0/1733
3	0B	0.26	0/2673	0.48	0/3619
4	0C	0.28	0/762	0.50	0/1023
4	1C	0.37	0/762	0.69	2/1023 (0.2%)
5	0D	0.27	0/1655	0.49	0/2241
5	1D	0.27	0/1655	0.49	0/2241
5	2D	0.27	0/1655	0.48	0/2241
6	0E	0.25	0/1584	0.47	0/2133
6	1E	0.25	0/1584	0.46	0/2133
6	2E	0.26	0/1583	0.47	0/2130
6	3E	0.25	0/1584	0.47	0/2133
7	0F	0.27	0/1699	0.53	0/2294
8	0G	0.27	0/1410	0.46	0/1899
8	1G	0.27	0/1117	0.47	0/1508
9	0H	0.25	0/960	0.49	0/1273
9	1H	0.24	0/3687	0.49	0/4881
10	0N	0.26	0/2355	0.46	0/3181
10	1N	0.26	0/3884	0.44	0/5240
10	2N	0.26	0/2355	0.47	0/3181
11	0Q	0.27	0/1583	0.55	1/2138 (0.0%)
11	1Q	0.28	0/1583	0.52	0/2138
11	2Q	0.28	0/1583	0.54	1/2138 (0.0%)
11	3Q	0.27	0/1583	0.53	0/2138
11	4Q	0.28	0/1583	0.52	0/2138
11	5Q	0.28	0/1583	0.53	0/2138
11	6Q	0.27	0/1583	0.52	0/2138
12	0S	0.26	0/2271	0.45	0/3074
12	1S	0.27	0/2361	0.46	0/3199

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
12	2S	0.28	0/2360	0.47	0/3195
12	3S	0.26	0/2361	0.45	0/3199
13	0T	0.24	0/1804	0.43	0/2414
13	1T	0.27	0/2376	0.47	0/3199
13	2T	0.28	0/2378	0.48	0/3205
13	3T	0.27	0/2379	0.48	0/3209
14	0U	0.26	0/4861	0.50	0/6567
14	1U	0.27	0/4861	0.51	0/6567
14	2U	0.26	0/4866	0.52	0/6583
14	3U	0.26	0/4866	0.50	0/6583
15	0V	0.24	0/1784	0.46	0/2393
15	1V	0.27	0/2199	0.61	1/2935 (0.0%)
15	2V	0.28	0/2200	0.69	7/2938 (0.2%)
15	3V	0.26	0/2202	0.58	2/2945 (0.1%)
16	0X	0.26	0/916	0.50	0/1218
16	1X	0.26	0/1221	0.48	0/1622
16	2X	0.26	0/1221	0.48	0/1622
16	3X	0.25	0/1221	0.48	0/1622
16	4X	0.25	0/1221	0.48	0/1622
17	1B	0.27	0/4148	0.45	0/5587
17	2B	0.24	0/2483	0.45	0/3339
17	3B	0.24	0/2493	0.44	0/3352
18	1F	0.27	0/1118	0.46	0/1510
19	1I	0.25	0/1574	0.50	0/2125
20	1J	1.39	6/3090 (0.2%)	0.49	0/4148
21	1K	0.24	0/2359	0.44	0/3133
21	2K	0.23	0/2414	0.42	0/3201
22	1L	0.26	0/6960	0.48	0/9358
22	2L	0.25	0/5275	0.47	0/7092
22	3L	0.25	0/1685	0.48	0/2266
23	1M	1.26	6/3039 (0.2%)	1.10	9/4093 (0.2%)
23	2M	0.27	0/3041	0.51	1/4100 (0.0%)
24	1O	0.25	0/1990	0.44	0/2623
24	2O	0.23	0/3186	0.44	0/4207
24	3O	0.24	0/2295	0.49	1/3029 (0.0%)
25	1P	0.23	0/2977	0.45	0/3933
25	2P	0.24	0/1521	0.42	0/2020
26	1R	0.28	0/4362	0.48	0/5890
26	2R	0.32	1/4364 (0.0%)	0.52	2/5896 (0.0%)
26	3R	0.28	0/4364	0.47	0/5896
27	1W	1.48	2/1865 (0.1%)	0.57	2/2490 (0.1%)
27	2W	0.24	0/902	0.49	0/1200
28	2C	0.26	0/2511	0.46	0/3378

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
28	3C	0.27	0/2511	0.46	0/3378
28	4C	0.26	0/2511	0.44	0/3378
29	2F	0.25	0/767	0.45	0/1028
30	2G	0.25	0/859	0.40	0/1140
31	2H	0.25	0/507	0.48	0/672
31	3H	0.25	0/507	0.47	0/672
31	4H	0.26	0/507	0.47	0/672
32	2I	0.27	0/1112	0.49	0/1492
32	3I	0.26	0/729	0.53	0/975
33	3D	0.25	0/1878	0.41	0/2538
34	4F	0.26	0/1668	0.49	0/2256
35	4R	0.95	6/5201 (0.1%)	0.47	0/7028
35	5R	0.28	0/5200	0.46	0/7024
35	6R	0.51	0/5205	0.58	6/7042 (0.1%)
35	7R	0.26	0/5200	0.46	0/7024
36	4S	0.27	0/1572	0.46	0/2122
36	5S	0.26	0/1572	0.45	0/2122
37	5A	0.25	0/1299	0.52	0/1757
37	5B	1.81	6/1299 (0.5%)	0.52	0/1757
37	5C	1.80	6/1299 (0.5%)	0.52	0/1757
37	5D	2.73	6/865 (0.7%)	0.81	1/1161 (0.1%)
38	5E	0.24	0/1531	0.46	0/2055
38	5F	0.25	0/1791	0.49	0/2411
38	5G	0.25	0/1789	0.51	1/2405 (0.0%)
38	5H	0.25	0/1101	0.52	0/1481
39	5I	0.24	0/744	0.40	0/1003
39	5J	0.24	0/893	0.39	0/1201
39	5K	0.23	0/559	0.38	0/750
40	6F	0.25	0/1168	0.46	0/1566
41	6G	0.26	0/1809	0.47	0/2426
44	AA	0.28	0/3478	0.47	0/4710
44	AC	0.29	0/3478	0.48	0/4710
44	AE	0.28	0/3480	0.48	0/4716
44	AG	0.28	0/3480	0.47	0/4716
44	AI	0.28	0/3480	0.47	0/4716
44	AK	0.29	0/3480	0.48	0/4716
44	AM	0.27	0/3479	0.47	0/4713
44	BA	0.27	0/3435	0.47	0/4655
44	BC	0.27	0/3435	0.47	0/4655
44	BE	0.28	0/3435	0.47	0/4655
44	BG	0.27	0/3434	0.48	0/4651
44	BI	0.27	0/3435	0.47	0/4655
44	BK	0.28	0/3434	0.48	0/4651

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
44	BM	0.27	0/3435	0.46	0/4655
44	CA	0.26	0/3480	0.47	0/4716
44	CC	0.26	0/3480	0.47	0/4716
44	CE	0.27	0/3480	0.47	0/4716
44	CG	0.28	0/3479	0.50	1/4712 (0.0%)
44	CI	0.27	0/3480	0.46	0/4716
44	CK	0.27	0/3478	0.71	3/4709 (0.1%)
44	CM	0.27	0/3480	0.47	0/4716
44	DA	0.25	0/3443	0.46	0/4666
44	DC	0.26	0/3439	0.46	0/4660
44	DE	0.27	0/3443	0.46	0/4666
44	DG	0.27	0/3457	0.47	0/4678
44	DI	0.28	0/3443	0.48	0/4666
44	DK	0.28	0/3460	0.51	3/4687 (0.1%)
44	DM	0.26	0/3443	0.48	0/4666
44	EA	0.25	0/3466	0.46	0/4694
44	EC	0.26	0/3480	0.48	0/4716
44	EE	0.27	0/3479	0.47	0/4713
44	EG	0.27	0/3480	0.47	0/4716
44	EI	0.28	0/3480	0.47	0/4716
44	EK	0.28	0/3478	0.47	0/4709
44	EM	0.26	0/3476	0.46	0/4703
44	FA	0.26	0/3413	0.46	0/4625
44	FC	0.28	0/3435	0.49	0/4655
44	FE	0.27	0/3447	0.48	0/4671
44	FG	0.27	0/3479	0.48	0/4713
44	FI	0.27	0/3443	0.47	0/4666
44	FK	0.26	0/3435	0.46	0/4655
44	FM	0.25	0/3299	0.45	0/4458
44	GA	0.27	0/3413	0.48	0/4625
44	GC	0.27	0/3428	0.47	0/4643
44	GE	0.28	0/3429	0.48	0/4647
44	GG	0.28	0/3429	0.47	0/4647
44	GI	0.28	0/3429	0.49	0/4647
44	GK	0.26	0/3478	0.47	0/4710
44	GM	0.25	0/3412	0.46	0/4621
44	HA	0.26	0/3425	0.46	0/4638
44	HC	0.27	0/3427	0.47	0/4644
44	HE	0.28	0/3427	0.47	0/4644
44	HG	0.27	0/3427	0.47	0/4644
44	HI	0.28	0/3425	0.48	0/4638
44	HK	0.26	0/3427	0.46	0/4644
44	HM	0.26	0/3427	0.48	0/4644



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
44	IA	0.26	0/3435	0.47	0/4655
44	IC	0.27	0/3480	0.46	0/4716
44	IE	0.28	0/3435	0.48	0/4655
44	IG	0.27	0/3480	0.47	0/4716
44	II	0.88	3/3480 (0.1%)	0.56	3/4716 (0.1%)
44	IK	0.27	0/3435	0.46	0/4655
44	IM	0.26	0/3435	0.46	0/4655
44	JA	0.27	0/3435	0.47	0/4655
44	JC	0.28	0/3447	0.48	0/4671
44	JE	0.28	0/3480	0.47	0/4716
44	JG	0.28	0/3480	0.48	0/4716
44	JI	0.27	0/3476	0.47	0/4710
44	JK	0.27	0/3480	0.48	0/4716
44	JM	0.25	0/3447	0.47	0/4671
44	KA	0.27	0/3447	0.48	0/4671
44	KC	0.27	0/3443	0.46	0/4666
44	KE	0.81	1/3456 (0.0%)	0.50	2/4682 (0.0%)
44	KG	0.28	0/3480	0.48	0/4716
44	KI	0.81	1/3480 (0.0%)	0.50	1/4716 (0.0%)
44	KK	0.36	2/3478 (0.1%)	0.52	2/4710 (0.0%)
44	KM	0.26	0/3447	0.47	1/4671 (0.0%)
44	LA	0.27	0/3480	0.47	0/4716
44	LC	0.29	0/3480	0.49	2/4716 (0.0%)
44	LE	0.28	0/3469	0.47	0/4696
44	LG	0.28	0/3480	0.47	0/4716
44	LI	0.28	0/3452	0.48	0/4677
44	LK	0.33	0/3480	0.54	0/4716
44	LM	0.26	0/3480	0.47	0/4716
44	MA	0.28	0/3463	0.47	0/4692
44	MC	0.28	0/3439	0.47	0/4660
44	ME	0.28	0/3440	0.48	0/4657
44	MG	0.27	0/3469	0.47	0/4697
44	MI	0.28	0/3479	0.47	0/4713
44	MK	0.28	0/3455	0.47	0/4681
44	MM	0.27	0/3463	0.47	0/4692
44	NA	0.27	0/3480	0.46	0/4716
44	NC	0.28	0/3435	0.47	0/4655
44	NE	0.28	0/3480	0.49	1/4716 (0.0%)
44	NG	0.27	0/3435	0.48	0/4655
44	NI	0.27	0/3480	0.47	0/4716
44	NK	0.27	0/3435	0.48	0/4655
44	NM	0.26	0/3476	0.48	0/4704
44	OA	0.26	0/3438	0.48	1/4657 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
44	OC	0.27	0/3439	0.47	0/4660
44	OE	0.27	0/3439	0.47	0/4660
44	OG	0.27	0/3439	0.48	0/4660
44	OI	0.27	0/3439	0.46	0/4660
44	OK	0.26	0/3439	0.47	0/4660
44	OM	0.25	0/3439	0.46	0/4660
44	PA	0.25	0/3413	0.46	0/4625
44	PC	0.27	0/3413	0.48	0/4625
44	PE	0.27	0/3413	0.47	0/4625
44	PG	0.27	0/3413	0.46	0/4625
44	PI	0.27	0/3412	0.46	0/4622
44	PK	0.26	0/3413	0.46	0/4625
44	PM	0.25	0/3413	0.45	0/4625
44	QA	0.24	0/3427	0.46	0/4644
44	QC	0.26	0/3427	0.47	0/4644
44	QE	0.26	0/3427	0.46	0/4644
44	QG	0.27	0/3427	0.48	0/4644
44	QI	0.26	0/3427	0.47	0/4644
44	QK	0.26	0/3427	0.47	0/4644
44	QM	0.25	0/3426	0.47	0/4640
44	RA	0.24	0/3427	0.45	0/4644
44	RC	0.26	0/3427	0.46	0/4644
44	RE	0.27	0/3427	0.46	0/4644
44	RG	0.26	0/3426	0.47	0/4641
44	RI	0.27	0/3427	0.47	0/4644
44	RK	0.26	0/3427	0.47	0/4644
44	RM	0.26	0/3425	0.47	0/4638
44	SA	0.25	0/3421	0.45	0/4636
44	SC	0.26	0/3418	0.47	0/4627
44	SE	0.26	0/3419	0.47	0/4630
44	SG	0.27	0/3420	0.47	0/4633
44	SI	0.26	0/3421	0.46	0/4636
44	SK	0.27	0/3421	0.46	0/4636
44	SM	0.26	0/3417	0.47	0/4624
44	TA	0.25	0/3421	0.46	0/4636
44	TC	0.26	0/3421	0.47	0/4636
44	TE	0.26	0/3421	0.47	0/4636
44	TG	0.27	0/3419	0.47	0/4630
44	TI	0.27	0/3421	0.47	0/4636
44	TK	0.26	0/3421	0.46	0/4636
44	TM	0.25	0/3419	0.46	0/4630
44	UA	0.25	0/3421	0.46	0/4636
44	UC	0.26	0/3426	0.46	0/4641

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
44	UE	0.26	0/3427	0.47	0/4644
44	UG	0.27	0/3427	0.46	0/4644
44	UI	0.27	0/3427	0.47	0/4644
44	UK	0.28	0/3426	0.50	1/4640 (0.0%)
44	UM	0.25	0/3427	0.46	0/4644
44	VA	0.26	0/3443	0.46	0/4666
44	VC	0.26	0/3478	0.46	0/4710
44	VE	0.27	0/3443	0.47	0/4666
44	VG	0.27	0/3480	0.47	0/4716
44	VI	0.27	0/3443	0.48	0/4666
44	VK	0.26	0/3480	0.47	0/4716
44	VM	0.26	0/3435	0.49	2/4654 (0.0%)
44	WA	0.26	0/3425	0.46	0/4638
44	WC	0.27	0/3479	0.47	0/4713
44	WE	0.26	0/3427	0.46	0/4644
44	WG	0.27	0/3479	0.49	1/4713 (0.0%)
44	WI	0.27	0/3427	0.47	0/4644
44	WK	0.27	0/3479	0.47	0/4713
44	WM	0.25	0/3427	0.46	0/4644
45	AB	0.26	0/3355	0.48	0/4534
45	AD	0.28	0/3439	0.49	0/4655
45	AF	0.28	0/3439	0.48	0/4655
45	AH	0.28	0/3439	0.48	0/4655
45	AJ	0.28	0/3437	0.47	0/4649
45	AL	0.29	0/3439	0.48	0/4655
45	AN	0.28	0/3436	0.47	0/4644
45	BB	0.26	0/3439	0.52	0/4655
45	BD	0.27	0/3439	0.47	0/4655
45	BF	1.32	6/3439 (0.2%)	1.22	10/4655 (0.2%)
45	BH	0.28	0/3435	0.48	0/4642
45	BJ	0.28	0/3438	0.48	0/4652
45	BL	0.28	0/3439	0.47	0/4655
45	BN	0.28	0/3439	0.48	0/4655
45	CB	0.27	0/3439	0.51	1/4655 (0.0%)
45	CD	0.26	0/3439	0.48	0/4655
45	CF	0.28	0/3439	0.49	0/4655
45	CH	0.27	0/3438	0.50	0/4651
45	CJ	0.27	0/3439	0.48	0/4655
45	CL	0.27	0/3437	0.50	1/4649 (0.0%)
45	CN	0.25	0/3439	0.47	0/4655
45	DB	1.37	7/3437 (0.2%)	1.43	7/4649 (0.2%)
45	DD	0.27	0/3439	0.47	0/4655
45	DF	0.27	0/3437	0.47	0/4649

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	DH	0.27	0/3439	0.55	1/4655 (0.0%)
45	DJ	0.27	0/3436	0.48	0/4646
45	DL	0.26	0/3438	0.47	0/4652
45	DN	0.25	0/3439	0.47	0/4655
45	EB	0.26	0/3439	0.47	0/4655
45	ED	0.26	0/3439	0.47	0/4655
45	EF	0.27	0/3439	0.48	0/4655
45	EH	0.27	0/3439	0.48	0/4655
45	EJ	0.26	0/3439	0.48	0/4655
45	EL	0.26	0/3439	0.49	0/4655
45	EN	0.25	0/3439	0.48	0/4655
45	FB	0.26	0/3439	0.47	0/4655
45	FD	0.27	0/3439	0.48	0/4655
45	FF	0.28	0/3439	0.48	0/4655
45	FH	0.27	0/3437	0.48	0/4649
45	FJ	1.10	6/3439 (0.2%)	1.08	7/4655 (0.2%)
45	FL	0.27	0/3439	0.48	0/4655
45	FN	0.26	0/3439	0.48	0/4655
45	GB	0.26	0/3439	0.47	0/4655
45	GD	0.27	0/3439	0.48	0/4655
45	GF	0.29	0/3437	0.53	2/4649 (0.0%)
45	GH	0.27	0/3438	0.49	0/4652
45	GJ	0.28	0/3439	0.47	0/4655
45	GL	0.27	0/3439	0.48	0/4655
45	GN	0.26	0/3438	0.47	0/4652
45	HB	0.25	0/3437	0.46	0/4648
45	HD	0.26	0/3439	0.47	0/4655
45	HF	1.37	7/3439 (0.2%)	1.42	7/4655 (0.2%)
45	HH	1.07	6/3439 (0.2%)	1.01	8/4655 (0.2%)
45	HJ	0.27	0/3439	0.47	0/4655
45	HL	0.27	0/3439	0.48	0/4655
45	HN	1.37	7/3439 (0.2%)	1.43	7/4655 (0.2%)
45	IB	0.25	0/3439	0.47	0/4655
45	ID	0.27	0/3439	0.48	0/4655
45	IF	0.27	0/3439	0.47	0/4655
45	IH	0.28	0/3439	0.50	0/4655
45	IJ	0.27	0/3439	0.48	0/4655
45	IL	0.27	0/3437	0.48	0/4649
45	IN	0.27	0/3439	0.48	0/4655
45	JB	0.26	0/3439	0.47	0/4655
45	JD	0.28	0/3439	0.49	0/4655
45	JF	0.27	0/3438	0.47	0/4652
45	JH	0.28	0/3439	0.49	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	JJ	0.29	0/3438	0.49	1/4651 (0.0%)
45	JL	0.28	0/3438	0.48	0/4652
45	JN	0.26	0/3439	0.47	0/4655
45	KB	0.27	0/3439	0.49	0/4655
45	KD	0.29	0/3439	0.50	2/4655 (0.0%)
45	KF	0.28	0/3439	0.49	0/4655
45	KH	0.27	0/3439	0.47	0/4655
45	KJ	0.29	0/3439	0.49	0/4655
45	KL	0.28	0/3439	0.48	0/4655
45	KN	0.29	0/3436	0.51	0/4646
45	LB	0.27	0/3439	0.48	0/4655
45	LD	0.27	0/3439	0.49	0/4655
45	LF	0.29	0/3439	0.49	0/4655
45	LH	0.28	0/3439	0.47	0/4655
45	LJ	0.28	0/3439	0.49	0/4655
45	LL	0.27	0/3439	0.47	0/4655
45	LN	0.28	0/3439	0.48	0/4655
45	MB	0.26	0/3438	0.47	0/4652
45	MD	0.28	0/3439	0.48	0/4655
45	MF	0.28	0/3437	0.49	0/4649
45	MH	0.28	0/3439	0.48	0/4655
45	MJ	0.28	0/3439	0.49	0/4655
45	ML	0.28	0/3438	0.49	1/4651 (0.0%)
45	MN	0.27	0/3439	0.48	0/4655
45	NB	0.25	0/3375	0.46	0/4569
45	ND	0.27	0/3439	0.48	0/4655
45	NF	0.28	0/3375	0.47	0/4569
45	NH	0.27	0/3439	0.48	0/4655
45	NJ	0.28	0/3375	0.49	1/4569 (0.0%)
45	NL	0.27	0/3439	0.48	0/4655
45	NN	0.26	0/3373	0.47	1/4563 (0.0%)
45	OB	0.25	0/3439	0.46	0/4655
45	OD	0.26	0/3439	0.48	0/4655
45	OF	0.27	0/3439	0.48	0/4655
45	OH	0.27	0/3439	0.48	0/4655
45	OJ	0.27	0/3439	0.48	0/4655
45	OL	0.27	0/3439	0.48	0/4655
45	ON	0.26	0/3439	0.47	0/4655
45	PB	0.25	0/3421	0.47	0/4628
45	PD	0.26	0/3436	0.47	0/4646
45	PF	1.42	8/3439 (0.2%)	0.54	3/4655 (0.1%)
45	PH	0.27	0/3439	0.46	0/4655
45	PJ	0.27	0/3439	0.47	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	PL	0.26	0/3439	0.47	0/4655
45	PN	0.26	0/3439	0.46	0/4655
45	QB	0.27	0/3439	0.47	0/4655
45	QD	0.26	0/3439	0.48	0/4655
45	QF	0.26	0/3438	0.47	0/4652
45	QH	0.26	0/3439	0.47	0/4655
45	QJ	0.26	0/3436	0.47	0/4646
45	QL	0.26	0/3439	0.47	0/4655
45	QN	0.25	0/3306	0.45	0/4463
45	RB	0.25	0/3439	0.46	0/4655
45	RD	0.26	0/3439	0.49	1/4655 (0.0%)
45	RF	0.27	0/3439	0.49	1/4655 (0.0%)
45	RH	0.26	0/3439	0.48	0/4655
45	RJ	0.26	0/3439	0.48	0/4655
45	RL	0.26	0/3439	0.48	1/4655 (0.0%)
45	RN	0.25	0/3439	0.46	0/4655
45	SB	0.26	0/3437	0.46	0/4649
45	SD	0.26	0/3439	0.48	0/4655
45	SF	0.27	0/3439	0.48	0/4655
45	SH	0.27	0/3439	0.48	0/4655
45	SJ	0.26	0/3439	0.48	0/4655
45	SL	0.28	0/3439	0.49	2/4655 (0.0%)
45	SN	0.25	0/3439	0.46	0/4655
45	TB	0.25	0/3439	0.46	0/4655
45	TD	0.26	0/3439	0.47	0/4655
45	TF	0.26	0/3439	0.48	0/4655
45	TH	0.26	0/3437	0.47	0/4649
45	TJ	0.28	0/3439	0.47	0/4655
45	TL	0.25	0/3439	0.46	0/4655
45	TN	1.37	7/3436 (0.2%)	1.42	7/4646 (0.2%)
45	UB	0.25	0/3436	0.46	0/4645
45	UD	0.26	0/3438	0.48	0/4652
45	UF	0.26	0/3439	0.47	0/4655
45	UH	0.27	0/3439	0.47	0/4655
45	UJ	0.27	0/3439	0.48	0/4655
45	UL	0.25	0/3439	0.46	0/4655
45	UN	0.25	0/3439	0.46	0/4655
45	VB	0.25	0/3439	0.47	0/4655
45	VD	0.27	0/3438	0.47	0/4652
45	VF	0.27	0/3437	0.47	0/4649
45	VH	0.27	0/3439	0.48	0/4655
45	VJ	0.27	0/3439	0.48	1/4655 (0.0%)
45	VL	0.26	0/3438	0.47	0/4652

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	VN	0.25	0/3437	0.47	1/4649 (0.0%)
45	WB	0.26	0/3439	0.47	0/4655
45	WD	0.27	0/3439	0.48	0/4655
45	WF	0.27	0/3439	0.48	0/4655
45	WH	0.27	0/3438	0.48	0/4652
45	WJ	0.27	0/3438	0.46	0/4652
45	WL	0.27	0/3439	0.47	0/4655
45	WN	0.26	0/3439	0.47	0/4655
All	All	0.37	100/1333976 (0.0%)	0.51	135/1804342 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	0A	0	1
2	1A	0	1
2	2A	0	1
2	3A	0	1
12	0S	0	1
14	0U	0	1
14	1U	0	1
14	2U	0	1
15	1V	0	2
15	2V	0	3
26	1R	0	1
26	2R	0	1
26	3R	0	1
37	5D	0	2
38	5F	0	1
44	BI	0	1
44	CK	0	2
44	FC	0	1
44	JG	0	1
44	NM	0	3
44	QM	0	1
44	SK	0	1
45	CB	0	1
45	DL	0	1
45	EF	0	1
45	FH	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
45	FN	0	1
45	GL	0	1
45	KL	0	1
45	KN	0	2
45	OD	0	1
45	PF	0	1
45	SB	0	1
45	SD	0	1
All	All	0	43

All (100) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	1W	121	GLU	CG-CD	62.58	2.45	1.51
45	DB	281	TYR	CE2-CZ	48.74	2.02	1.38
45	HN	281	TYR	CE2-CZ	48.70	2.01	1.38
45	TN	281	TYR	CE2-CZ	48.49	2.01	1.38
44	II	282	TYR	CB-CG	48.48	2.24	1.51
45	HF	281	TYR	CE2-CZ	48.33	2.01	1.38
45	BF	281	TYR	CD1-CE1	46.87	2.09	1.39
45	BF	281	TYR	CD2-CE2	46.32	2.08	1.39
44	KI	394	LYS	CE-NZ	44.87	2.61	1.49
44	KE	394	LYS	CE-NZ	44.76	2.60	1.49
45	FJ	92	PHE	CE2-CZ	41.21	2.15	1.37
45	PF	20	PHE	CE2-CZ	39.47	2.12	1.37
37	5D	34	PHE	CE1-CZ	38.52	2.10	1.37
45	PF	20	PHE	CE1-CZ	37.88	2.09	1.37
37	5D	34	PHE	CD1-CE1	37.53	2.14	1.39
23	1M	231	PHE	CD1-CE1	36.96	2.13	1.39
20	1J	263	PHE	CE2-CZ	36.76	2.07	1.37
45	PF	20	PHE	CD1-CE1	36.76	2.12	1.39
23	1M	231	PHE	CD2-CE2	36.65	2.12	1.39
37	5D	34	PHE	CE2-CZ	35.35	2.04	1.37
20	1J	263	PHE	CE1-CZ	34.96	2.03	1.37
37	5B	102	TYR	CD1-CE1	34.39	1.91	1.39
45	PF	20	PHE	CD2-CE2	34.39	2.08	1.39
45	HH	90	PHE	CD1-CE1	34.33	2.08	1.39
37	5C	102	TYR	CD1-CE1	34.18	1.90	1.39
37	5C	102	TYR	CD2-CE2	34.15	1.90	1.39
37	5B	102	TYR	CD2-CE2	33.98	1.90	1.39
37	5D	34	PHE	CD2-CE2	33.93	2.07	1.39
45	HH	90	PHE	CD2-CE2	33.76	2.06	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	TN	281	TYR	CG-CD1	33.70	1.82	1.39
45	DB	281	TYR	CG-CD1	33.48	1.82	1.39
45	HN	281	TYR	CG-CD1	33.47	1.82	1.39
45	HF	281	TYR	CG-CD1	33.28	1.82	1.39
20	1J	263	PHE	CD2-CE2	33.24	2.05	1.39
35	4R	17	PHE	CE1-CZ	33.22	2.00	1.37
20	1J	263	PHE	CD1-CE1	33.07	2.05	1.39
45	HF	281	TYR	CE1-CZ	-30.10	0.99	1.38
45	TN	281	TYR	CE1-CZ	-29.87	0.99	1.38
45	HN	281	TYR	CE1-CZ	-29.62	1.00	1.38
45	DB	281	TYR	CE1-CZ	-29.62	1.00	1.38
35	4R	17	PHE	CE2-CZ	29.54	1.93	1.37
35	4R	17	PHE	CD2-CE2	28.83	1.97	1.39
35	4R	17	PHE	CD1-CE1	28.28	1.95	1.39
23	1M	231	PHE	CE1-CZ	-27.27	0.85	1.37
23	1M	231	PHE	CE2-CZ	-27.17	0.85	1.37
45	FJ	92	PHE	CE1-CZ	-27.15	0.85	1.37
45	HF	281	TYR	CD1-CE1	-25.94	1.00	1.39
45	TN	281	TYR	CD1-CE1	-25.79	1.00	1.39
45	HN	281	TYR	CD1-CE1	-25.43	1.01	1.39
45	DB	281	TYR	CD1-CE1	-25.35	1.01	1.39
45	FJ	92	PHE	CG-CD1	24.14	1.75	1.38
45	TN	281	TYR	CD2-CE2	-24.00	1.03	1.39
45	HF	281	TYR	CD2-CE2	-23.97	1.03	1.39
45	HN	281	TYR	CD2-CE2	-23.95	1.03	1.39
37	5D	34	PHE	CG-CD1	23.88	1.74	1.38
45	DB	281	TYR	CD2-CE2	-23.86	1.03	1.39
45	TN	281	TYR	CG-CD2	-23.83	1.08	1.39
45	HN	281	TYR	CG-CD2	-23.76	1.08	1.39
45	DB	281	TYR	CG-CD2	-23.72	1.08	1.39
45	HF	281	TYR	CG-CD2	-23.69	1.08	1.39
37	5B	102	TYR	CE1-CZ	23.68	1.69	1.38
37	5C	102	TYR	CE2-CZ	23.54	1.69	1.38
37	5C	102	TYR	CE1-CZ	23.49	1.69	1.38
37	5B	102	TYR	CE2-CZ	23.46	1.69	1.38
45	PF	20	PHE	CG-CD1	23.14	1.73	1.38
45	PF	20	PHE	CG-CD2	22.50	1.72	1.38
37	5D	34	PHE	CG-CD2	22.41	1.72	1.38
20	1J	263	PHE	CG-CD1	22.21	1.72	1.38
20	1J	263	PHE	CG-CD2	21.70	1.71	1.38
45	HH	90	PHE	CE1-CZ	-21.55	0.96	1.37
45	HH	90	PHE	CE2-CZ	-21.44	0.96	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	FJ	92	PHE	CD1-CE1	-20.01	0.99	1.39
45	BF	281	TYR	CE1-CZ	-19.52	1.13	1.38
45	BF	281	TYR	CE2-CZ	-19.45	1.13	1.38
35	4R	17	PHE	CG-CD2	19.19	1.67	1.38
35	4R	17	PHE	CG-CD1	18.90	1.67	1.38
37	5B	102	TYR	CG-CD1	18.76	1.63	1.39
37	5C	102	TYR	CG-CD2	18.76	1.63	1.39
37	5B	102	TYR	CG-CD2	18.75	1.63	1.39
37	5C	102	TYR	CG-CD1	18.70	1.63	1.39
45	BF	281	TYR	CG-CD1	-17.46	1.16	1.39
45	BF	281	TYR	CG-CD2	-17.30	1.16	1.39
45	FJ	92	PHE	CD2-CE2	-15.79	1.07	1.39
23	1M	231	PHE	CG-CD2	-14.45	1.17	1.38
45	HH	90	PHE	CG-CD1	-14.44	1.17	1.38
23	1M	231	PHE	CG-CD1	-14.42	1.17	1.38
45	HH	90	PHE	CG-CD2	-14.41	1.17	1.38
45	FJ	92	PHE	CG-CD2	-13.98	1.17	1.38
44	KK	430	LYS	C-N	10.72	1.58	1.34
45	PF	25	SER	N-CA	8.91	1.64	1.46
27	1W	121	GLU	CB-CG	7.80	1.67	1.52
44	KK	431	ASP	N-CA	7.66	1.61	1.46
45	PF	24	ILE	C-N	6.71	1.49	1.34
45	TN	281	TYR	CB-CG	5.79	1.60	1.51
44	II	282	TYR	CG-CD2	5.68	1.46	1.39
26	2R	49	PRO	CG-CD	-5.64	1.32	1.50
45	HN	281	TYR	CB-CG	5.51	1.59	1.51
45	DB	281	TYR	CB-CG	5.46	1.59	1.51
45	HF	281	TYR	CB-CG	5.43	1.59	1.51
44	II	282	TYR	CG-CD1	5.42	1.46	1.39

All (135) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	HF	281	TYR	CD1-CE1-CZ	-64.39	61.85	119.80
45	DB	281	TYR	CD1-CE1-CZ	-64.33	61.90	119.80
45	HN	281	TYR	CD1-CE1-CZ	-64.31	61.92	119.80
45	TN	281	TYR	CD1-CE1-CZ	-64.10	62.11	119.80
45	DB	281	TYR	CG-CD2-CE2	-53.20	78.74	121.30
45	HN	281	TYR	CG-CD2-CE2	-53.18	78.75	121.30
45	HF	281	TYR	CG-CD2-CE2	-53.06	78.85	121.30
45	TN	281	TYR	CG-CD2-CE2	-53.00	78.90	121.30
45	FJ	92	PHE	CD1-CE1-CZ	-43.33	68.10	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	FJ	92	PHE	CG-CD2-CE2	-41.43	75.23	120.80
45	BF	281	TYR	CE1-CZ-CE2	-35.85	62.43	119.80
45	BF	281	TYR	CD1-CG-CD2	-31.43	83.33	117.90
44	CK	360	PRO	CA-C-O	-30.87	46.10	120.20
45	BF	281	TYR	CG-CD1-CE1	-29.77	97.48	121.30
45	BF	281	TYR	CG-CD2-CE2	-29.60	97.62	121.30
45	HH	90	PHE	CE1-CZ-CE2	-28.89	68.00	120.00
45	BF	281	TYR	CB-CG-CD2	26.05	136.63	121.00
45	BF	281	TYR	CB-CG-CD1	25.96	136.57	121.00
45	TN	281	TYR	CB-CG-CD1	25.77	136.46	121.00
45	HF	281	TYR	CB-CG-CD1	25.73	136.44	121.00
45	HN	281	TYR	CB-CG-CD1	25.58	136.35	121.00
45	DB	281	TYR	CB-CG-CD1	25.43	136.25	121.00
23	1M	231	PHE	CD1-CG-CD2	-24.57	86.36	118.30
45	HH	90	PHE	CD1-CG-CD2	-23.67	87.53	118.30
23	1M	231	PHE	CB-CG-CD1	23.35	137.15	120.80
45	HH	90	PHE	CG-CD1-CE1	-23.00	95.50	120.80
23	1M	231	PHE	CG-CD1-CE1	-22.72	95.81	120.80
45	HH	90	PHE	CB-CG-CD1	22.70	136.69	120.80
45	HH	90	PHE	CG-CD2-CE2	-22.61	95.93	120.80
23	1M	231	PHE	CG-CD2-CE2	-22.44	96.12	120.80
23	1M	231	PHE	CB-CG-CD2	22.41	136.49	120.80
45	HH	90	PHE	CB-CG-CD2	21.40	135.78	120.80
23	1M	231	PHE	CZ-CE2-CD2	-20.80	95.14	120.10
23	1M	231	PHE	CD1-CE1-CZ	-20.73	95.22	120.10
23	1M	231	PHE	CE1-CZ-CE2	-17.82	87.93	120.00
45	FJ	92	PHE	CB-CG-CD1	17.74	133.22	120.80
45	DH	271	ALA	C-N-CD	-17.62	81.84	120.60
45	HF	281	TYR	CZ-CE2-CD2	-16.67	104.80	119.80
45	DB	281	TYR	CZ-CE2-CD2	-16.65	104.81	119.80
45	HN	281	TYR	CZ-CE2-CD2	-16.62	104.84	119.80
45	TN	281	TYR	CZ-CE2-CD2	-16.60	104.86	119.80
45	TN	281	TYR	CD1-CG-CD2	-15.82	100.50	117.90
45	HN	281	TYR	CD1-CG-CD2	-15.68	100.65	117.90
45	DB	281	TYR	CD1-CG-CD2	-15.66	100.67	117.90
45	HF	281	TYR	CD1-CG-CD2	-15.66	100.67	117.90
44	II	282	TYR	CA-CB-CG	15.36	142.58	113.40
44	CK	360	PRO	CA-C-N	14.14	148.31	117.20
45	FJ	92	PHE	CZ-CE2-CD2	-13.43	103.98	120.10
27	1W	121	GLU	OE1-CD-OE2	-13.32	107.32	123.30
45	BF	281	TYR	CD1-CE1-CZ	-12.95	108.15	119.80
44	CK	360	PRO	O-C-N	-12.79	102.24	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	BF	281	TYR	CZ-CE2-CD2	-12.68	108.39	119.80
45	HH	90	PHE	CD1-CE1-CZ	-12.21	105.44	120.10
45	HH	90	PHE	CZ-CE2-CD2	-12.15	105.52	120.10
4	1C	77	PRO	CA-N-CD	-11.15	95.89	111.50
23	2M	125	LYS	CD-CE-NZ	-10.98	86.44	111.70
45	PF	24	ILE	C-N-CA	10.95	149.06	121.70
45	TN	281	TYR	CE1-CZ-CE2	-10.79	102.54	119.80
45	HN	281	TYR	CE1-CZ-CE2	-10.74	102.62	119.80
45	BF	281	TYR	CE1-CZ-OH	10.73	149.07	120.10
45	DB	281	TYR	CE1-CZ-CE2	-10.72	102.64	119.80
44	KK	430	LYS	C-N-CA	10.68	148.41	121.70
26	2R	49	PRO	CA-N-CD	-10.67	96.57	111.50
45	HF	281	TYR	CE1-CZ-CE2	-10.66	102.74	119.80
45	BF	281	TYR	OH-CZ-CE2	10.50	148.45	120.10
44	VM	175	PRO	CA-N-CD	-10.30	97.08	111.50
45	FJ	92	PHE	CE1-CZ-CE2	-9.99	102.01	120.00
44	UK	307	PRO	CA-N-CD	-9.98	97.53	111.50
44	KI	394	LYS	CD-CE-NZ	9.96	134.60	111.70
44	KE	394	LYS	CD-CE-NZ	9.93	134.54	111.70
45	FJ	92	PHE	CD1-CG-CD2	-9.85	105.50	118.30
45	HF	281	TYR	OH-CZ-CE2	9.73	146.37	120.10
45	HN	281	TYR	OH-CZ-CE2	9.71	146.31	120.10
45	DB	281	TYR	OH-CZ-CE2	9.70	146.29	120.10
45	TN	281	TYR	OH-CZ-CE2	9.67	146.22	120.10
44	II	282	TYR	CB-CG-CD1	9.32	126.59	121.00
45	CB	66	MET	CA-CB-CG	9.29	129.09	113.30
45	KD	80	PRO	CA-N-CD	-8.93	99.00	111.50
15	3V	201	SER	C-N-CA	8.92	144.01	121.70
23	1M	322	GLY	N-CA-C	8.74	134.95	113.10
44	DK	175	PRO	CA-N-CD	-8.37	99.78	111.50
45	CL	259	PRO	CA-N-CD	-8.20	100.03	111.50
26	2R	49	PRO	N-CD-CG	-8.05	91.12	103.20
15	2V	258	LEU	CB-CG-CD2	7.97	124.55	111.00
45	SL	173	PRO	N-CD-CG	-7.95	91.27	103.20
44	WG	89	PRO	CA-N-CD	-7.91	100.43	111.50
45	ML	259	PRO	CA-N-CD	-7.67	100.76	111.50
44	NE	261	PRO	CA-N-CD	-7.50	101.01	111.50
45	NJ	80	PRO	CA-N-CD	-7.44	101.08	111.50
44	II	282	TYR	CD1-CG-CD2	-7.32	109.84	117.90
4	1C	77	PRO	N-CD-CG	-7.22	92.36	103.20
45	RD	32	PRO	CA-N-CD	-7.21	101.41	111.50
44	LC	175	PRO	N-CD-CG	-7.20	92.40	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	GF	121	ARG	CG-CD-NE	-7.13	96.83	111.80
35	6R	318	TYR	CA-CB-CG	6.96	126.62	113.40
45	JJ	171	PRO	CA-N-CD	-6.88	101.87	111.50
11	0Q	62	PRO	CA-N-CD	-6.80	101.98	111.50
15	1V	185	LEU	CB-CG-CD2	6.67	122.34	111.00
15	2V	185	LEU	CB-CG-CD2	6.52	122.08	111.00
15	3V	185	LEU	CB-CG-CD2	6.40	121.88	111.00
44	OA	62	VAL	C-N-CD	-6.27	106.80	120.60
24	3O	480	PRO	N-CA-C	6.18	128.17	112.10
44	DK	360	PRO	CA-N-CD	-6.18	102.85	111.50
27	1W	121	GLU	CB-CG-CD	6.09	130.65	114.20
44	KM	274	PRO	CA-N-CD	-6.06	103.01	111.50
44	LC	175	PRO	CA-N-CD	-6.05	103.03	111.50
45	RL	70	PRO	CA-N-CD	-6.03	103.06	111.50
45	GF	121	ARG	CB-CG-CD	5.86	126.83	111.60
44	CG	89	PRO	N-CD-CG	-5.84	94.44	103.20
45	PF	25	SER	CB-CA-C	-5.76	99.16	110.10
35	6R	539	ALA	N-CA-CB	-5.74	102.06	110.10
45	FJ	92	PHE	CG-CD1-CE1	-5.63	114.61	120.80
15	2V	168	LEU	CB-CG-CD2	5.61	120.53	111.00
44	VM	175	PRO	N-CD-CG	-5.60	94.80	103.20
35	6R	389	ASN	N-CA-CB	5.59	120.66	110.60
15	2V	168	LEU	CB-CG-CD1	5.57	120.46	111.00
44	KK	431	ASP	CB-CA-C	-5.50	99.39	110.40
37	5D	34	PHE	CB-CG-CD2	-5.49	116.95	120.80
45	PF	20	PHE	CB-CG-CD1	-5.49	116.95	120.80
44	DK	37	PRO	CA-N-CD	-5.41	103.93	111.50
45	NN	261	PRO	CA-N-CD	-5.39	103.95	111.50
38	5G	35	LEU	CA-CB-CG	5.38	127.67	115.30
45	SL	173	PRO	CA-N-CD	-5.38	103.97	111.50
15	2V	28	PRO	N-CA-C	5.37	126.05	112.10
15	2V	256	GLU	N-CA-C	5.32	125.37	111.00
15	2V	243	GLU	CA-CB-CG	5.30	125.06	113.40
35	6R	539	ALA	N-CA-C	5.26	125.22	111.00
44	KE	92	LEU	CA-CB-CG	-5.22	103.28	115.30
45	VJ	358	PRO	CA-N-CD	-5.22	104.20	111.50
35	6R	321	MET	N-CA-C	5.12	124.83	111.00
45	VN	286	VAL	CG1-CB-CG2	-5.10	102.75	110.90
11	2Q	178	PRO	CA-N-CD	-5.06	104.42	111.50
45	RF	357	PRO	CA-N-CD	-5.04	104.44	111.50
35	6R	318	TYR	CB-CA-C	-5.04	100.33	110.40
45	KD	80	PRO	N-CD-CG	-5.02	95.67	103.20

There are no chirality outliers.

All (43) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	0A	38	SER	Peptide
12	0S	18	ARG	Sidechain
14	0U	471	GLY	Peptide
2	1A	38	SER	Peptide
26	1R	42	PRO	Peptide
14	1U	471	GLY	Peptide
15	1V	235	VAL	Peptide
15	1V	236	GLY	Peptide
2	2A	38	SER	Peptide
26	2R	42	PRO	Peptide
14	2U	471	GLY	Peptide
15	2V	194	GLN	Peptide
15	2V	235	VAL	Peptide
15	2V	236	GLY	Peptide
2	3A	38	SER	Peptide
26	3R	42	PRO	Peptide
37	5D	105	HIS	Peptide
37	5D	53	PRO	Peptide
38	5F	33	TYR	Peptide
44	BI	88	HIS	Peptide
45	CB	66	MET	Peptide
44	CK	303	ALA	Peptide
44	CK	360	PRO	Mainchain
45	DL	378	PHE	Peptide
45	EF	375	GLN	Peptide
44	FC	243	ARG	Peptide
45	FH	324	LYS	Peptide
45	FH	325	GLU	Peptide
45	FN	101	TRP	Peptide
45	GL	299	MET	Peptide
44	JG	286	LEU	Peptide
45	KL	213	ARG	Sidechain
45	KN	391	ARG	Peptide
45	KN	393	ALA	Peptide
44	NM	276	ILE	Peptide
44	NM	366	GLY	Peptide
44	NM	367	ASP	Peptide
45	OD	281	TYR	Peptide
45	PF	20	PHE	Peptide
44	QM	243	ARG	Peptide

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Mol	Chain	Res	Type	Group
45	SB	28	HIS	Peptide
45	SD	172	SER	Peptide
44	SK	256	GLN	Peptide

## 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6H	1370	0	1276	200	0
2	0A	1229	0	1157	80	0
2	1A	1229	0	1157	59	0
2	2A	1229	0	1157	83	0
2	3A	1229	0	1156	91	0
3	0B	2614	0	2537	119	0
4	0C	747	0	744	32	0
4	1C	747	0	744	48	0
5	0D	1621	0	1610	96	0
5	1D	1621	0	1610	68	0
5	2D	1621	0	1610	68	0
6	0E	1557	0	1513	17	0
6	1E	1557	0	1513	1	0
6	2E	1557	0	1512	20	0
6	3E	1557	0	1513	30	0
7	0F	1665	0	1658	81	0
8	0G	1378	0	1335	82	0
8	1G	1089	0	1056	52	0
9	0H	949	0	952	15	0
9	1H	3654	0	3670	65	0
10	0N	2305	0	2251	50	0
10	1N	3805	0	3734	59	0
10	2N	2305	0	2251	31	0
11	0Q	1548	0	1575	11	0
11	1Q	1548	0	1575	14	0
11	2Q	1548	0	1575	19	0
11	3Q	1548	0	1575	25	0
11	4Q	1548	0	1575	6	0
11	5Q	1548	0	1575	164	0
11	6Q	1548	0	1575	191	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	0S	2227	0	2261	24	0
12	1S	2310	0	2349	35	0
12	2S	2310	0	2349	32	0
12	3S	2310	0	2349	52	0
13	0T	1774	0	1722	9	0
13	1T	2321	0	2265	43	0
13	2T	2321	0	2267	27	0
13	3T	2321	0	2267	33	0
14	0U	4774	0	4746	9	0
14	1U	4774	0	4746	17	0
14	2U	4774	0	4750	21	0
14	3U	4774	0	4750	25	0
15	0V	1750	0	1740	46	0
15	1V	2168	1211	2151	86	0
15	2V	2168	1211	2152	64	0
15	3V	2168	1211	2153	71	0
16	0X	903	0	878	39	0
16	1X	1205	0	1184	42	0
16	2X	1205	0	1184	53	0
16	3X	1205	0	1184	51	0
16	4X	1205	0	1184	42	0
17	1B	4066	0	4014	19	0
17	2B	2439	0	2418	32	0
17	3B	2449	0	2426	3	0
18	1F	1093	0	1079	49	0
19	1I	1546	0	1485	64	0
20	1J	3025	0	2938	221	0
21	1K	2335	0	2336	56	0
21	2K	2396	0	2419	43	0
22	1L	6841	0	6886	155	0
22	2L	5181	0	5214	109	0
22	3L	1660	0	1671	47	0
23	1M	2978	2176	2956	16	0
23	2M	2978	2191	2957	6	0
24	1O	1983	0	2096	26	0
24	2O	3173	0	3303	79	0
24	3O	2290	2347	2371	20	0
25	1P	2958	0	3087	101	0
25	2P	1507	0	1507	24	0
26	1R	4244	0	4117	119	0
26	2R	4244	0	4119	140	0
26	3R	4244	0	4119	116	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	1W	1840	0	1771	77	0
27	2W	890	0	869	66	0
28	2C	2467	0	2457	26	0
28	3C	2467	0	2457	29	0
28	4C	2467	0	2457	38	0
29	2F	746	0	703	41	0
30	2G	848	0	869	23	0
31	2H	501	0	513	46	0
31	3H	501	0	513	37	0
31	4H	501	0	513	52	0
32	2I	1086	0	1081	118	0
32	3I	712	0	722	92	0
33	3D	1835	0	1817	4	0
34	4F	1622	0	1559	94	0
35	4R	5070	0	4974	127	0
35	5R	5070	0	4974	599	0
35	6R	5070	0	4975	661	0
35	7R	5070	0	4974	668	0
36	4S	1537	0	1565	9	0
36	5S	1537	0	1565	161	0
37	5A	1261	0	1230	44	0
37	5B	1261	0	1230	73	0
37	5C	1261	0	1230	87	0
37	5D	846	0	821	452	0
38	5E	1500	0	1504	76	0
38	5F	1750	0	1753	152	0
38	5G	1750	0	1751	227	0
38	5H	1077	0	1073	170	0
39	5I	732	0	722	64	0
39	5J	878	0	889	74	0
39	5K	553	0	580	86	0
40	6F	1140	0	1075	141	0
41	6G	1769	0	1772	289	0
42	8L	1925	0	391	97	0
42	8N	1790	0	363	65	0
43	8P	1815	0	370	67	0
43	8R	2020	0	427	64	0
44	AA	3408	0	3345	398	0
44	AC	3408	0	3345	377	0
44	AE	3408	0	3347	331	0
44	AG	3408	0	3347	366	0
44	AI	3408	0	3347	318	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	AK	3408	0	3347	354	0
44	AM	3408	0	3346	395	0
44	BA	3364	0	3300	470	0
44	BC	3364	0	3302	331	0
44	BE	3364	0	3302	358	0
44	BG	3364	0	3302	380	0
44	BI	3364	0	3302	330	0
44	BK	3364	0	3302	341	0
44	BM	3364	0	3302	405	0
44	CA	3408	0	3347	464	0
44	CC	3408	0	3347	408	0
44	CE	3408	0	3347	363	0
44	CG	3408	0	3347	366	0
44	CI	3408	0	3347	339	0
44	CK	3408	0	3346	366	0
44	CM	3408	0	3347	527	0
44	DA	3372	0	3306	501	0
44	DC	3368	0	3305	415	0
44	DE	3372	0	3306	418	0
44	DG	3389	0	3321	397	0
44	DI	3372	0	3306	406	0
44	DK	3389	0	3325	419	0
44	DM	3372	0	3305	473	0
44	EA	3397	0	3336	404	0
44	EC	3408	0	3347	500	0
44	EE	3408	0	3346	478	0
44	EG	3408	0	3347	433	0
44	EI	3408	0	3347	386	0
44	EK	3408	0	3346	444	0
44	EM	3408	0	3343	488	0
44	FA	3342	0	3288	443	0
44	FC	3364	0	3302	485	0
44	FE	3376	0	3309	399	0
44	FG	3408	0	3346	375	0
44	FI	3372	0	3306	385	0
44	FK	3364	0	3301	447	0
44	FM	3239	0	3156	338	0
44	GA	3342	0	3289	465	0
44	GC	3358	0	3297	404	0
44	GE	3358	0	3297	383	0
44	GG	3358	0	3297	364	0
44	GI	3358	0	3297	390	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	GK	3408	0	3345	524	0
44	GM	3342	0	3288	459	0
44	HA	3356	0	3296	421	0
44	HC	3356	0	3298	382	0
44	HE	3356	0	3298	378	0
44	HG	3356	0	3298	346	0
44	HI	3356	0	3296	350	0
44	HK	3356	0	3297	383	0
44	HM	3356	0	3297	416	0
44	IA	3364	0	3302	421	0
44	IC	3408	0	3347	364	0
44	IE	3364	0	3302	389	0
44	IG	3408	0	3347	387	0
44	II	3408	0	3347	411	0
44	IK	3364	0	3302	367	0
44	IM	3364	0	3301	420	0
44	JA	3364	0	3302	334	0
44	JC	3376	0	3309	350	0
44	JE	3408	0	3347	348	0
44	JG	3408	0	3346	401	0
44	JI	3404	0	3336	327	0
44	JK	3408	0	3347	404	0
44	JM	3376	0	3308	433	0
44	KA	3376	0	3309	391	0
44	KC	3372	0	3306	316	0
44	KE	3385	0	3321	365	0
44	KG	3408	0	3347	408	0
44	KI	3408	0	3347	383	0
44	KK	3408	0	3345	512	0
44	KM	3376	0	3308	446	0
44	LA	3408	0	3347	411	0
44	LC	3408	0	3347	348	0
44	LE	3400	0	3333	319	0
44	LG	3408	0	3347	385	0
44	LI	3381	0	3319	398	0
44	LK	3408	0	3333	218	0
44	LM	3408	0	3347	401	0
44	MA	3392	0	3329	329	0
44	MC	3368	0	3305	357	0
44	ME	3372	0	3303	373	0
44	MG	3400	0	3336	412	0
44	MI	3408	0	3346	344	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	MK	3384	0	3315	391	0
44	MM	3392	0	3329	453	0
44	NA	3408	0	3347	432	0
44	NC	3364	0	3302	392	0
44	NE	3408	0	3347	394	0
44	NG	3364	0	3302	405	0
44	NI	3408	0	3347	383	0
44	NK	3364	0	3302	424	0
44	NM	3408	0	3343	602	0
44	OA	3368	0	3304	446	0
44	OC	3368	0	3305	408	0
44	OE	3368	0	3305	409	0
44	OG	3368	0	3305	414	0
44	OI	3368	0	3305	393	0
44	OK	3368	0	3304	394	0
44	OM	3368	0	3303	397	0
44	PA	3342	0	3288	452	0
44	PC	3342	0	3289	439	0
44	PE	3342	0	3289	407	0
44	PG	3342	0	3289	368	0
44	PI	3342	0	3288	360	0
44	PK	3342	0	3289	390	0
44	PM	3342	0	3289	374	0
44	QA	3356	0	3298	393	0
44	QC	3356	0	3297	489	0
44	QE	3356	0	3298	394	0
44	QG	3356	0	3298	402	0
44	QI	3356	0	3298	363	0
44	QK	3356	0	3298	363	0
44	QM	3356	0	3298	468	0
44	RA	3356	0	3297	358	0
44	RC	3356	0	3297	434	0
44	RE	3356	0	3298	485	0
44	RG	3356	0	3295	431	0
44	RI	3356	0	3297	410	0
44	RK	3356	0	3298	408	0
44	RM	3356	0	3294	474	0
44	SA	3350	0	3293	459	0
44	SC	3350	0	3290	431	0
44	SE	3350	0	3291	442	0
44	SG	3350	0	3290	431	0
44	SI	3350	0	3293	385	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	SK	3350	0	3292	421	0
44	SM	3350	0	3288	501	0
44	TA	3350	0	3293	432	0
44	TC	3350	0	3290	439	0
44	TE	3350	0	3293	521	0
44	TG	3350	0	3291	404	0
44	TI	3350	0	3293	464	0
44	TK	3350	0	3293	401	0
44	TM	3350	0	3289	497	0
44	UA	3350	0	3293	425	0
44	UC	3356	0	3297	497	0
44	UE	3356	0	3298	510	0
44	UG	3356	0	3298	472	0
44	UI	3356	0	3298	442	0
44	UK	3356	0	3296	472	0
44	UM	3356	0	3297	465	0
44	VA	3372	0	3305	497	0
44	VC	3408	0	3345	413	0
44	VE	3372	0	3306	398	0
44	VG	3408	0	3346	446	0
44	VI	3372	0	3306	441	0
44	VK	3408	0	3347	393	0
44	VM	3365	0	3291	410	0
44	WA	3356	0	3295	447	0
44	WC	3408	0	3345	427	0
44	WE	3356	0	3297	342	0
44	WG	3408	0	3346	371	0
44	WI	3356	0	3297	370	0
44	WK	3408	0	3346	416	0
44	WM	3356	0	3298	495	0
45	AB	3291	0	3167	424	0
45	AD	3366	0	3257	401	0
45	AF	3366	0	3257	379	0
45	AH	3366	0	3257	362	0
45	AJ	3366	0	3255	368	0
45	AL	3366	0	3257	383	0
45	AN	3366	0	3256	399	0
45	BB	3366	0	3255	163	0
45	BD	3366	0	3256	450	0
45	BF	3366	0	3256	365	0
45	BH	3366	0	3253	387	0
45	BJ	3366	0	3256	377	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	BL	3366	0	3257	385	0
45	BN	3366	0	3257	453	0
45	CB	3366	0	3257	533	0
45	CD	3366	0	3257	381	0
45	CF	3366	0	3257	383	0
45	CH	3366	0	3257	385	0
45	CJ	3366	0	3257	377	0
45	CL	3366	0	3255	494	0
45	CN	3366	0	3257	529	0
45	DB	3366	0	3253	459	0
45	DD	3366	0	3256	350	0
45	DF	3366	0	3255	397	0
45	DH	3366	0	3257	387	0
45	DJ	3366	0	3254	434	0
45	DL	3366	0	3256	428	0
45	DN	3366	0	3257	456	0
45	EB	3366	0	3257	538	0
45	ED	3366	0	3257	492	0
45	EF	3366	0	3257	534	0
45	EH	3366	0	3257	421	0
45	EJ	3366	0	3257	487	0
45	EL	3366	0	3257	427	0
45	EN	3366	0	3256	477	0
45	FB	3366	0	3257	523	0
45	FD	3366	0	3257	481	0
45	FF	3366	0	3257	373	0
45	FH	3366	0	3255	452	0
45	FJ	3366	0	3257	392	0
45	FL	3366	0	3257	432	0
45	FN	3366	0	3257	571	0
45	GB	3366	0	3255	433	0
45	GD	3366	0	3255	476	0
45	GF	3366	0	3255	441	0
45	GH	3366	0	3256	418	0
45	GJ	3366	0	3256	391	0
45	GL	3366	0	3255	472	0
45	GN	3366	0	3255	481	0
45	HB	3366	0	3256	451	0
45	HD	3366	0	3257	402	0
45	HF	3366	0	3257	349	0
45	HH	3366	0	3257	402	0
45	HJ	3366	0	3256	358	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	HL	3366	0	3257	420	0
45	HN	3366	0	3257	456	0
45	IB	3366	0	3257	514	0
45	ID	3366	0	3255	396	0
45	IF	3366	0	3257	372	0
45	IH	3366	0	3257	411	0
45	IJ	3366	0	3257	410	0
45	IL	3366	0	3255	370	0
45	IN	3366	0	3257	437	0
45	JB	3366	0	3256	423	0
45	JD	3366	0	3257	340	0
45	JF	3366	0	3254	385	0
45	JH	3366	0	3256	435	0
45	JJ	3366	0	3256	409	0
45	JL	3366	0	3255	332	0
45	JN	3366	0	3257	460	0
45	KB	3366	0	3257	418	0
45	KD	3366	0	3257	366	0
45	KF	3366	0	3257	394	0
45	KH	3366	0	3257	325	0
45	KJ	3366	0	3255	424	0
45	KL	3366	0	3257	342	0
45	KN	3366	0	3254	613	0
45	LB	3366	0	3255	426	0
45	LD	3366	0	3255	366	0
45	LF	3366	0	3257	351	0
45	LH	3366	0	3257	310	0
45	LJ	3366	0	3257	417	0
45	LL	3366	0	3255	396	0
45	LN	3366	0	3255	438	0
45	MB	3366	0	3256	428	0
45	MD	3366	0	3257	363	0
45	MF	3366	0	3255	446	0
45	MH	3366	0	3257	323	0
45	MJ	3366	0	3257	458	0
45	ML	3366	0	3257	397	0
45	MN	3366	0	3257	412	0
45	NB	3304	0	3196	462	0
45	ND	3366	0	3257	470	0
45	NF	3304	0	3197	456	0
45	NH	3366	0	3257	440	0
45	NJ	3304	0	3194	419	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	NL	3366	0	3257	465	0
45	NN	3304	0	3194	431	0
45	OB	3366	0	3257	433	0
45	OD	3366	0	3257	480	0
45	OF	3366	0	3257	392	0
45	OH	3366	0	3255	459	0
45	OJ	3366	0	3255	396	0
45	OL	3366	0	3254	430	0
45	ON	3366	0	3256	446	0
45	PB	3351	0	3239	368	0
45	PD	3366	0	3254	465	0
45	PF	3366	0	3257	469	0
45	PH	3366	0	3256	399	0
45	PJ	3366	0	3257	430	0
45	PL	3366	0	3257	428	0
45	PN	3366	0	3255	444	0
45	QB	3366	0	3257	494	0
45	QD	3366	0	3257	411	0
45	QF	3366	0	3256	416	0
45	QH	3366	0	3256	401	0
45	QJ	3366	0	3254	428	0
45	QL	3366	0	3257	493	0
45	QN	3244	0	3107	343	0
45	RB	3366	0	3257	468	0
45	RD	3366	0	3257	464	0
45	RF	3366	0	3257	429	0
45	RH	3366	0	3257	435	0
45	RJ	3366	0	3257	480	0
45	RL	3366	0	3257	470	0
45	RN	3366	0	3257	409	0
45	SB	3366	0	3254	548	0
45	SD	3366	0	3257	410	0
45	SF	3366	0	3257	396	0
45	SH	3366	0	3257	392	0
45	SJ	3366	0	3257	455	0
45	SL	3366	0	3257	465	0
45	SN	3366	0	3257	386	0
45	TB	3366	0	3257	384	0
45	TD	3366	0	3257	513	0
45	TF	3366	0	3257	518	0
45	TH	3366	0	3255	458	0
45	TJ	3366	0	3257	480	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	TL	3366	0	3257	503	0
45	TN	3366	0	3254	411	0
45	UB	3366	0	3255	438	0
45	UD	3366	0	3256	526	0
45	UF	3366	0	3257	500	0
45	UH	3366	0	3257	510	0
45	UJ	3366	0	3255	525	0
45	UL	3366	0	3257	492	0
45	UN	3366	0	3255	383	0
45	VB	3366	0	3256	427	0
45	VD	3366	0	3256	504	0
45	VF	3366	0	3255	407	0
45	VH	3366	0	3257	403	0
45	VJ	3366	0	3257	423	0
45	VL	3366	0	3256	454	0
45	VN	3366	0	3255	474	0
45	WB	3366	0	3256	414	0
45	WD	3366	0	3256	447	0
45	WF	3366	0	3257	383	0
45	WH	3366	0	3254	349	0
45	WJ	3366	0	3256	371	0
45	WL	3366	0	3257	325	0
45	WN	3366	0	3257	459	0
46	AA	32	0	12	6	0
46	AC	32	0	12	4	0
46	AE	32	0	12	4	0
46	AG	32	0	12	4	0
46	AI	32	0	12	6	0
46	AK	32	0	12	3	0
46	AM	32	0	12	4	0
46	BA	32	0	12	8	0
46	BC	32	0	12	7	0
46	BE	32	0	12	7	0
46	BG	32	0	12	7	0
46	BI	32	0	12	5	0
46	BK	32	0	12	8	0
46	BM	32	0	12	1	0
46	CA	32	0	12	5	0
46	CC	32	0	12	8	0
46	CE	32	0	12	8	0
46	CG	32	0	12	6	0
46	CI	32	0	12	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	CK	32	0	12	6	0
46	CM	32	0	12	10	0
46	DA	32	0	12	10	0
46	DB	32	0	11	6	0
46	DE	32	0	12	8	0
46	DG	32	0	12	6	0
46	DI	32	0	12	2	0
46	DK	32	0	12	6	0
46	DM	32	0	12	12	0
46	EA	32	0	11	6	0
46	EC	32	0	12	12	0
46	EE	32	0	12	5	0
46	EG	32	0	12	2	0
46	EI	32	0	12	9	0
46	EK	32	0	12	7	0
46	EM	32	0	12	10	0
46	FA	32	0	12	5	0
46	FC	32	0	12	2	0
46	FE	32	0	12	8	0
46	FG	32	0	12	2	0
46	FI	32	0	12	6	0
46	FK	32	0	12	8	0
46	FM	32	0	12	3	0
46	GB	32	0	12	4	0
46	GD	32	0	12	3	0
46	GE	32	0	12	4	0
46	GG	32	0	12	3	0
46	GI	32	0	12	7	0
46	GL	32	0	12	2	0
46	GM	32	0	12	4	0
46	HA	32	0	12	10	0
46	HC	32	0	12	6	0
46	HE	32	0	12	3	0
46	HG	32	0	12	5	0
46	HI	32	0	12	17	0
46	HK	32	0	12	5	0
46	HM	32	0	12	4	0
46	IA	32	0	12	4	0
46	ID	32	0	12	5	0
46	IE	32	0	12	6	0
46	IG	32	0	12	10	0
46	II	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	IK	32	0	12	5	0
46	IM	32	0	12	6	0
46	JA	32	0	11	4	0
46	JC	32	0	12	4	0
46	JE	32	0	12	5	0
46	JG	32	0	12	4	0
46	JI	32	0	12	3	0
46	JK	32	0	12	7	0
46	JM	32	0	11	9	0
46	KA	32	0	12	6	0
46	KC	32	0	12	4	0
46	KE	32	0	12	7	0
46	KG	32	0	12	2	0
46	KJ	32	0	12	3	0
46	KK	32	0	12	3	0
46	KM	32	0	11	3	0
46	LB	32	0	12	6	0
46	LC	32	0	12	3	0
46	LE	32	0	12	2	0
46	LG	32	0	11	2	0
46	LI	32	0	12	7	0
46	LK	32	0	12	0	0
46	LM	32	0	12	5	0
46	MA	32	0	12	8	0
46	MC	32	0	12	5	0
46	ME	32	0	12	3	0
46	MG	32	0	10	6	0
46	MI	32	0	12	1	0
46	MK	32	0	12	2	0
46	MM	32	0	12	4	0
46	NA	32	0	12	4	0
46	NC	32	0	12	6	0
46	NE	32	0	12	7	0
46	NG	32	0	12	6	0
46	NI	32	0	12	2	0
46	NK	32	0	12	4	0
46	NM	32	0	12	4	0
46	OA	32	0	12	2	0
46	OC	32	0	12	4	0
46	OE	32	0	12	3	0
46	OG	32	0	12	2	0
46	OI	32	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	OL	32	0	12	3	0
46	OM	32	0	12	5	0
46	PA	32	0	12	5	0
46	PC	32	0	12	7	0
46	PE	32	0	12	6	0
46	PG	32	0	12	4	0
46	PI	32	0	12	4	0
46	PK	32	0	12	10	0
46	PM	32	0	12	5	0
46	QA	32	0	12	13	0
46	QC	32	0	12	15	0
46	QE	32	0	12	7	0
46	QG	32	0	12	10	0
46	QI	32	0	12	7	0
46	QK	32	0	12	8	0
46	QM	32	0	12	10	0
46	RA	32	0	12	5	0
46	RC	32	0	12	5	0
46	RE	32	0	12	4	0
46	RG	32	0	12	8	0
46	RI	32	0	12	10	0
46	RK	32	0	12	7	0
46	RM	32	0	12	10	0
46	SA	32	0	12	16	0
46	SC	32	0	12	8	0
46	SE	32	0	12	5	0
46	SG	32	0	12	8	0
46	SI	32	0	12	6	0
46	SK	32	0	12	8	0
46	SM	32	0	12	8	0
46	TA	32	0	12	16	0
46	TC	32	0	12	17	0
46	TE	32	0	11	7	0
46	TG	32	0	12	9	0
46	TI	32	0	12	6	0
46	TK	32	0	12	6	0
46	TM	32	0	12	11	0
46	UA	32	0	12	10	0
46	UC	32	0	12	3	0
46	UE	32	0	12	6	0
46	UG	32	0	12	9	0
46	UI	32	0	12	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	UK	32	0	12	9	0
46	UM	32	0	12	5	0
46	VA	32	0	12	9	0
46	VC	32	0	12	3	0
46	VE	32	0	12	7	0
46	VG	32	0	12	6	0
46	VI	32	0	12	7	0
46	VK	32	0	12	7	0
46	VM	32	0	12	9	0
46	WA	32	0	12	8	0
46	WC	32	0	12	11	0
46	WE	32	0	12	6	0
46	WG	32	0	12	6	0
46	WI	32	0	12	5	0
46	WK	32	0	12	7	0
46	WM	32	0	12	7	0
47	AB	1	0	0	0	0
47	AC	1	0	0	0	0
47	AE	1	0	0	0	0
47	AG	1	0	0	0	0
47	AI	1	0	0	0	0
47	AL	1	0	0	0	0
47	AM	1	0	0	0	0
47	BA	1	0	0	0	0
47	BD	1	0	0	0	0
47	BF	1	0	0	0	0
47	BH	1	0	0	0	0
47	BJ	1	0	0	0	0
47	BL	1	0	0	0	0
47	BM	1	0	0	0	0
47	CA	1	0	0	0	0
47	CC	1	0	0	0	0
47	CE	1	0	0	0	0
47	CF	1	0	0	0	0
47	CH	1	0	0	0	0
47	CJ	1	0	0	0	0
47	CM	1	0	0	0	0
47	DA	1	0	0	0	0
47	DB	1	0	0	0	0
47	DE	1	0	0	0	0
47	DG	1	0	0	0	0
47	DI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	DK	1	0	0	0	0
47	DM	1	0	0	0	0
47	EA	1	0	0	0	0
47	EB	1	0	0	0	0
47	EE	1	0	0	0	0
47	EG	1	0	0	0	0
47	EI	1	0	0	0	0
47	EJ	1	0	0	0	0
47	EL	1	0	0	0	0
47	FA	1	0	0	0	0
47	FD	1	0	0	0	0
47	FF	1	0	0	0	0
47	FG	1	0	0	0	0
47	FI	1	0	0	0	0
47	FK	1	0	0	0	0
47	FM	1	0	0	0	0
47	GA	1	0	0	0	0
47	GD	1	0	0	0	0
47	GE	1	0	0	0	0
47	GH	1	0	0	0	0
47	GJ	1	0	0	0	0
47	GK	1	0	0	0	0
47	GM	1	0	0	0	0
47	HA	1	0	0	0	0
47	HC	1	0	0	0	0
47	HF	1	0	0	0	0
47	HG	1	0	0	0	0
47	HI	1	0	0	0	0
47	HL	1	0	0	0	0
47	HM	1	0	0	0	0
47	IA	1	0	0	0	0
47	IC	1	0	0	0	0
47	IE	1	0	0	0	0
47	IH	1	0	0	0	0
47	IJ	1	0	0	0	0
47	IK	1	0	0	0	0
47	IM	1	0	0	0	0
47	JA	1	0	0	0	0
47	JC	1	0	0	0	0
47	JE	1	0	0	0	0
47	JG	1	0	0	0	0
47	JI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	JK	1	0	0	0	0
47	JM	1	0	0	0	0
47	KA	1	0	0	0	0
47	KC	1	0	0	0	0
47	KF	1	0	0	0	0
47	KG	1	0	0	0	0
47	KI	1	0	0	0	0
47	KK	1	0	0	0	0
47	KM	1	0	0	0	0
47	LA	1	0	0	0	0
47	LC	1	0	0	0	0
47	LE	1	0	0	0	0
47	LG	1	0	0	0	0
47	LI	1	0	0	0	0
47	LK	1	0	0	0	0
47	LN	1	0	0	0	0
47	MA	1	0	0	0	0
47	MC	1	0	0	0	0
47	MF	1	0	0	0	0
47	MG	1	0	0	0	0
47	MJ	1	0	0	0	0
47	MK	1	0	0	0	0
47	MN	1	0	0	0	0
47	NA	1	0	0	0	0
47	NC	1	0	0	0	0
47	NE	1	0	0	0	0
47	NG	1	0	0	0	0
47	NI	1	0	0	0	0
47	NK	1	0	0	0	0
47	NM	1	0	0	0	0
47	OA	1	0	0	0	0
47	OD	1	0	0	0	0
47	OE	1	0	0	0	0
47	OG	1	0	0	0	0
47	OI	1	0	0	0	0
47	OK	1	0	0	0	0
47	OM	1	0	0	0	0
47	PA	1	0	0	0	0
47	PD	1	0	0	0	0
47	PE	1	0	0	0	0
47	PG	1	0	0	0	0
47	PI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	PK	1	0	0	0	0
47	PM	1	0	0	0	0
47	QA	1	0	0	0	0
47	QC	1	0	0	0	0
47	QD	1	0	0	0	0
47	QG	1	0	0	0	0
47	QI	1	0	0	0	0
47	QJ	1	0	0	0	0
47	QM	1	0	0	0	0
47	RA	1	0	0	0	0
47	RC	1	0	0	0	0
47	RE	1	0	0	0	0
47	RG	1	0	0	0	0
47	RH	1	0	0	0	0
47	RK	1	0	0	0	0
47	RM	1	0	0	0	0
47	SA	1	0	0	0	0
47	SC	1	0	0	0	0
47	SE	1	0	0	0	0
47	SG	1	0	0	0	0
47	SI	1	0	0	0	0
47	SK	1	0	0	0	0
47	SM	1	0	0	0	0
47	TA	1	0	0	0	0
47	TC	1	0	0	0	0
47	TE	1	0	0	0	0
47	TG	1	0	0	0	0
47	TI	1	0	0	0	0
47	TK	1	0	0	0	0
47	TM	1	0	0	0	0
47	UA	1	0	0	0	0
47	UC	1	0	0	0	0
47	UE	1	0	0	0	0
47	UG	1	0	0	0	0
47	UI	1	0	0	0	0
47	UK	1	0	0	0	0
47	UL	1	0	0	0	0
47	VB	1	0	0	0	0
47	VC	1	0	0	0	0
47	VE	1	0	0	0	0
47	VG	1	0	0	0	0
47	VI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	VK	1	0	0	0	0
47	VM	1	0	0	0	0
47	WA	1	0	0	0	0
47	WC	1	0	0	0	0
47	WE	1	0	0	0	0
47	WG	1	0	0	0	0
47	WJ	1	0	0	0	0
47	WK	1	0	0	0	0
47	WM	1	0	0	0	0
48	AB	28	0	12	3	0
48	AD	28	0	12	3	0
48	AF	28	0	12	2	0
48	AH	28	0	12	3	0
48	AJ	28	0	12	1	0
48	AL	28	0	12	2	0
48	AN	28	0	12	2	0
48	BB	28	0	12	2	0
48	BD	28	0	12	6	0
48	BF	28	0	12	11	0
48	BH	28	0	12	7	0
48	BJ	28	0	12	8	0
48	BL	28	0	12	3	0
48	BN	28	0	12	2	0
48	CB	28	0	10	16	0
48	CD	28	0	12	4	0
48	CF	28	0	12	2	0
48	CH	28	0	12	1	0
48	CJ	28	0	12	2	0
48	CL	28	0	12	8	0
48	CN	28	0	12	1	0
48	DB	28	0	12	3	0
48	DD	28	0	12	3	0
48	DF	28	0	12	4	0
48	DH	28	0	12	4	0
48	DJ	28	0	12	7	0
48	DL	28	0	12	2	0
48	DN	28	0	12	0	0
48	EB	28	0	12	7	0
48	ED	28	0	12	4	0
48	EF	28	0	12	1	0
48	EH	28	0	12	5	0
48	EJ	28	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	EL	28	0	12	4	0
48	EN	28	0	12	2	0
48	FB	28	0	12	1	0
48	FD	28	0	12	5	0
48	FF	28	0	12	0	0
48	FH	28	0	12	3	0
48	FJ	28	0	12	3	0
48	FL	28	0	12	1	0
48	FN	28	0	12	7	0
48	GB	28	0	12	3	0
48	GD	28	0	12	6	0
48	GF	28	0	12	6	0
48	GH	28	0	12	4	0
48	GJ	28	0	12	7	0
48	GL	28	0	12	2	0
48	GN	28	0	12	2	0
48	HB	28	0	12	0	0
48	HD	28	0	12	2	0
48	HF	28	0	12	7	0
48	HH	28	0	12	2	0
48	HJ	28	0	12	5	0
48	HL	28	0	12	2	0
48	HN	28	0	12	5	0
48	IB	28	0	12	4	0
48	ID	28	0	12	6	0
48	IF	28	0	12	9	0
48	IH	28	0	12	4	0
48	IJ	28	0	12	1	0
48	IL	28	0	12	7	0
48	IN	28	0	12	2	0
48	JB	28	0	11	6	0
48	JD	28	0	12	6	0
48	JF	28	0	11	3	0
48	JH	28	0	10	7	0
48	JJ	28	0	12	8	0
48	JL	28	0	12	3	0
48	JN	28	0	12	4	0
48	KB	28	0	12	4	0
48	KD	28	0	12	4	0
48	KF	28	0	12	6	0
48	KH	28	0	12	7	0
48	KJ	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	KL	28	0	12	6	0
48	KN	28	0	12	3	0
48	LB	28	0	12	4	0
48	LD	28	0	12	1	0
48	LF	28	0	12	4	0
48	LH	28	0	12	4	0
48	LJ	28	0	12	2	0
48	LL	28	0	12	3	0
48	LN	28	0	12	5	0
48	MB	28	0	12	3	0
48	MD	28	0	12	3	0
48	MF	28	0	12	2	0
48	MH	28	0	12	7	0
48	MJ	28	0	12	4	0
48	ML	28	0	12	3	0
48	MN	28	0	12	4	0
48	NB	28	0	12	3	0
48	ND	28	0	12	2	0
48	NF	28	0	12	3	0
48	NH	28	0	12	2	0
48	NJ	28	0	12	2	0
48	NL	28	0	12	1	0
48	NN	28	0	12	3	0
48	OB	28	0	12	5	0
48	OD	28	0	12	6	0
48	OF	28	0	12	2	0
48	OH	28	0	12	4	0
48	OJ	28	0	12	7	0
48	OL	28	0	12	5	0
48	ON	28	0	12	5	0
48	PB	28	0	12	0	0
48	PD	28	0	12	3	0
48	PF	28	0	12	2	0
48	PH	28	0	12	4	0
48	PJ	28	0	12	4	0
48	PL	28	0	12	3	0
48	PN	28	0	12	5	0
48	QB	28	0	12	3	0
48	QD	28	0	12	4	0
48	QF	28	0	12	3	0
48	QH	28	0	12	9	0
48	QJ	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	QL	28	0	12	6	0
48	QN	28	0	12	2	0
48	RB	28	0	12	0	0
48	RD	28	0	12	1	0
48	RF	28	0	12	3	0
48	RH	28	0	12	4	0
48	RJ	28	0	12	10	0
48	RL	28	0	12	3	0
48	RN	28	0	12	6	0
48	SB	28	0	12	6	0
48	SD	28	0	12	6	0
48	SF	28	0	12	3	0
48	SH	28	0	12	6	0
48	SJ	28	0	12	2	0
48	SL	28	0	12	4	0
48	SN	28	0	12	4	0
48	TB	28	0	12	2	0
48	TD	28	0	12	9	0
48	TF	28	0	12	1	0
48	TH	28	0	12	6	0
48	TJ	28	0	12	6	0
48	TL	28	0	12	10	0
48	TN	28	0	12	3	0
48	UB	28	0	12	2	0
48	UD	28	0	12	5	0
48	UF	28	0	12	4	0
48	UH	28	0	12	4	0
48	UJ	28	0	12	10	0
48	UL	28	0	12	1	0
48	UN	28	0	12	4	0
48	VB	28	0	11	6	0
48	VD	28	0	12	4	0
48	VF	28	0	12	2	0
48	VH	28	0	12	8	0
48	VJ	28	0	12	2	0
48	VL	28	0	12	3	0
48	VN	28	0	12	4	0
48	WB	28	0	12	2	0
48	WD	28	0	12	3	0
48	WF	28	0	12	2	0
48	WH	28	0	12	5	0
48	WJ	28	0	12	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	WL	28	0	12	3	0
48	WN	28	0	12	4	0
All	All	1323851	10347	1282441	127393	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 49.

All (127393) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:407:TRP:CZ3	45:BB:255:VAL:HA	1.25	1.71
35:6R:268:GLU:CB	45:DN:280:GLN:HG2	1.16	1.62
27:2W:239:ARG:CZ	35:6R:5:LEU:HD13	1.21	1.60
20:1J:263:PHE:CE1	44:II:282:TYR:HB3	1.30	1.58
35:6R:118:LEU:HD13	35:6R:129:VAL:CG2	1.23	1.57
6:3E:119:ASP:CA	35:6R:579:ASN:HD21	1.14	1.55
20:1J:263:PHE:CZ	44:II:282:TYR:HB2	1.38	1.54
45:PF:20:PHE:CE2	45:PF:25:SER:HA	1.43	1.53
37:5D:34:PHE:CE1	44:KK:431:ASP:N	1.79	1.50
35:6R:404:LEU:CD1	45:DN:77:ARG:HD3	1.39	1.48
35:6R:268:GLU:CB	45:DN:280:GLN:CG	1.87	1.48
45:PF:20:PHE:CD1	45:PF:25:SER:N	1.82	1.45
35:6R:268:GLU:CG	45:DN:280:GLN:HG2	1.47	1.43
45:PF:20:PHE:CE1	45:PF:25:SER:N	1.86	1.43
20:1J:263:PHE:CZ	44:II:282:TYR:CB	1.96	1.42
35:6R:317:HIS:O	45:CN:227:HIS:CE1	1.70	1.42
35:6R:94:ARG:NH2	44:AM:41:THR:HG21	1.24	1.41
44:BA:101:ASN:ND2	45:BB:252:LYS:HD2	1.21	1.41
45:PF:20:PHE:CE1	45:PF:20:PHE:CZ	2.09	1.41
44:BA:407:TRP:HZ3	45:BB:255:VAL:CA	1.35	1.40
20:1J:263:PHE:CE2	44:II:282:TYR:CB	2.04	1.39
35:6R:80:ARG:HH22	44:MM:38:SER:N	1.21	1.39
37:5D:34:PHE:CG	44:KK:431:ASP:HA	1.56	1.39
45:PF:20:PHE:CE2	45:PF:20:PHE:CD2	2.08	1.39
35:6R:80:ARG:NH1	44:MM:38:SER:HA	1.39	1.38
35:6R:538:PHE:CE1	35:6R:578:TYR:CD1	2.11	1.37
27:2W:239:ARG:NH2	35:6R:5:LEU:CB	1.83	1.37
45:PF:20:PHE:CD1	45:PF:20:PHE:CE1	2.12	1.37
44:BA:407:TRP:CZ3	45:BB:255:VAL:CA	2.06	1.36
27:2W:239:ARG:NH2	35:6R:5:LEU:HD13	1.36	1.35
35:6R:80:ARG:NH2	44:MM:38:SER:H	1.20	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:300:PHE:CE2	45:CN:77:ARG:HD2	1.58	1.35
45:AB:55:THR:HG23	45:BB:283:ALA:CA	1.54	1.35
20:1J:263:PHE:CE2	44:II:282:TYR:HB2	1.62	1.35
37:5D:34:PHE:CE2	44:KK:431:ASP:N	1.91	1.35
35:6R:436:GLU:CB	45:FN:280:GLN:NE2	1.88	1.35
45:PF:20:PHE:CE2	45:PF:20:PHE:CZ	2.12	1.35
35:6R:50:ASP:HB2	35:6R:51:PRO:CD	1.54	1.34
44:AA:271:SER:HG	44:AA:272:TYR:N	1.26	1.34
35:6R:231:TYR:OH	45:CN:216:LYS:HB3	1.21	1.33
35:6R:300:PHE:CE2	45:CN:77:ARG:CD	2.12	1.33
35:6R:436:GLU:CD	45:FN:280:GLN:HB2	1.49	1.32
35:6R:436:GLU:HB2	45:FN:280:GLN:NE2	1.01	1.31
20:1J:263:PHE:CD1	44:II:282:TYR:CB	2.12	1.31
35:6R:323:LEU:CD2	45:CN:276:ARG:HH11	1.42	1.31
35:6R:538:PHE:CD1	35:6R:578:TYR:CD1	2.19	1.31
35:6R:118:LEU:CD1	35:6R:129:VAL:HG23	1.60	1.29
45:PF:20:PHE:CG	45:PF:25:SER:N	2.01	1.29
1:6H:376:ASP:OD1	45:FL:355:ASP:CB	1.66	1.28
37:5C:102:TYR:CE1	44:KI:394:LYS:NZ	2.02	1.28
35:6R:436:GLU:OE1	45:FN:280:GLN:HB2	1.30	1.28
27:2W:239:ARG:NH2	35:6R:5:LEU:CD1	1.89	1.27
37:5B:102:TYR:CE1	44:KE:394:LYS:NZ	2.02	1.27
35:6R:300:PHE:CD2	45:CN:77:ARG:HD2	1.68	1.27
35:6R:534:HIS:CE1	35:6R:578:TYR:OH	1.86	1.27
44:LK:37:PRO:O	44:LK:40:LYS:HG3	1.24	1.27
15:1V:146:PRO:CG	44:LK:414:GLU:OE2	1.81	1.27
37:5C:102:TYR:CD1	44:KI:394:LYS:NZ	2.02	1.26
37:5B:102:TYR:CD1	44:KE:394:LYS:NZ	2.02	1.26
35:6R:436:GLU:OE1	45:FN:280:GLN:CB	1.84	1.26
1:6H:329:LEU:CD2	45:FJ:361:LEU:HD11	1.64	1.26
45:PF:20:PHE:CD2	45:PF:25:SER:N	2.04	1.25
27:2W:239:ARG:NH1	35:6R:5:LEU:HD13	1.50	1.25
37:5B:102:TYR:CD2	44:KE:394:LYS:NZ	2.04	1.25
35:6R:391:PHE:CE1	45:EN:228:LEU:HD21	1.70	1.25
44:BA:101:ASN:ND2	45:BB:252:LYS:CD	1.98	1.25
37:5C:102:TYR:CE2	44:KI:394:LYS:NZ	2.04	1.24
37:5B:102:TYR:CE2	44:KE:394:LYS:NZ	2.04	1.24
37:5C:102:TYR:CD2	44:KI:394:LYS:NZ	2.04	1.24
35:6R:323:LEU:HD22	45:CN:276:ARG:NH1	1.51	1.24
6:3E:46:ASP:OD2	35:6R:380:ARG:O	1.53	1.24
45:PF:20:PHE:CZ	45:PF:25:SER:N	2.06	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:263:PHE:CD2	44:II:282:TYR:CB	2.21	1.23
37:5B:102:TYR:CZ	44:KE:394:LYS:NZ	2.07	1.23
35:6R:103:VAL:HG12	35:6R:110:ASN:O	1.38	1.23
1:6H:327:PHE:CE1	45:FJ:215:LEU:HD11	1.74	1.23
37:5C:102:TYR:CZ	44:KI:394:LYS:NZ	2.06	1.23
35:6R:315:MET:HG3	45:CN:26:ASP:OD2	1.39	1.23
1:6H:376:ASP:OD1	45:FL:355:ASP:HB3	1.25	1.22
45:PF:20:PHE:CE2	45:PF:25:SER:CA	2.21	1.22
1:6H:327:PHE:CE1	45:FJ:215:LEU:CD1	2.22	1.22
1:6H:376:ASP:OD2	45:FL:355:ASP:OD1	1.55	1.21
37:5D:34:PHE:CD1	44:KK:431:ASP:N	2.07	1.21
1:6H:376:ASP:OD1	45:FL:355:ASP:CG	1.63	1.20
27:2W:239:ARG:NH2	35:6R:5:LEU:HB3	1.41	1.20
35:6R:323:LEU:CD2	45:CN:276:ARG:HD2	1.70	1.20
1:6H:376:ASP:CG	45:FL:355:ASP:CG	2.01	1.20
37:5C:102:TYR:CG	44:KI:394:LYS:NZ	2.10	1.20
45:AB:55:THR:CG2	45:BB:283:ALA:HA	1.70	1.20
35:6R:118:LEU:HD12	35:6R:128:HIS:O	1.04	1.19
35:6R:344:ASN:HB3	45:CN:33:THR:HG21	1.24	1.19
45:TF:246:LEU:HD13	45:TF:353:ILE:HD13	1.22	1.19
37:5B:102:TYR:CG	44:KE:394:LYS:NZ	2.10	1.19
35:6R:317:HIS:O	45:CN:227:HIS:HE1	0.89	1.19
35:6R:466:TRP:CH2	45:EN:77:ARG:NH1	2.09	1.19
35:6R:118:LEU:CD1	35:6R:129:VAL:CG2	2.18	1.19
35:6R:509:ASP:OD1	44:EM:40:LYS:HG2	1.42	1.19
45:PF:20:PHE:CE2	45:PF:25:SER:N	2.10	1.19
22:2L:494:GLU:OE2	35:6R:218:ILE:CG2	1.90	1.19
35:6R:294:ASN:ND2	45:DN:217:LEU:HD13	1.57	1.19
44:II:282:TYR:CB	44:II:282:TYR:CG	2.24	1.19
35:6R:288:LYS:HZ1	44:CM:45:GLY:N	1.41	1.19
35:6R:404:LEU:CD1	45:DN:77:ARG:CD	2.19	1.19
5:2D:75:ASP:HA	45:EJ:362:LYS:HE2	1.20	1.18
45:BH:356:ILE:HG22	45:BH:357:PRO:HD2	1.26	1.18
44:EE:254:GLU:HG2	45:EF:98:GLY:HA2	1.22	1.18
44:TM:202:VAL:HG22	44:TM:268:MET:HB3	1.23	1.18
37:5C:102:TYR:CE2	44:KI:394:LYS:CE	2.27	1.18
45:UN:257:LEU:HD11	45:UN:314:SER:HB2	1.25	1.18
22:2L:357:ILE:CG2	35:6R:102:SER:OG	1.92	1.17
44:BG:254:GLU:HG2	45:BJ:98:GLY:HA2	1.24	1.17
45:GD:163:ILE:HD12	45:GD:250:LEU:HD22	1.20	1.17
35:6R:25:HIS:O	44:LK:244:PHE:CD1	1.96	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:436:GLU:CD	45:FN:280:GLN:CB	2.13	1.17
45:KD:200:MET:HG2	45:KD:266:PHE:HB2	1.22	1.17
44:KC:276:ILE:HD11	44:KC:280:LYS:HG2	1.24	1.17
45:PH:317:PHE:HA	45:PH:365:VAL:HG22	1.22	1.17
44:TG:239:THR:HA	44:TG:242:LEU:HD12	1.27	1.17
44:ME:326:LYS:HE2	45:MH:212:PHE:HE1	1.08	1.17
44:OG:204:LEU:HD13	44:OG:231:ILE:HD11	1.26	1.17
44:MM:298:PRO:HA	44:MM:301:MET:HE1	1.25	1.17
1:6H:382:PHE:CE1	44:FK:364:PRO:HD2	1.77	1.16
15:1V:142:ILE:CA	44:LK:415:GLU:OE1	1.92	1.16
38:5G:123:ARG:HD3	44:OI:370:LYS:HD3	1.27	1.16
35:6R:66:THR:HG22	45:MN:39:ASP:HA	1.26	1.16
45:AD:242:PHE:HB3	45:AD:356:ILE:HD13	1.27	1.16
44:BA:101:ASN:HD21	45:BB:252:LYS:CD	1.55	1.16
45:VN:5:VAL:HG12	45:VN:62:ARG:HD3	1.20	1.16
20:1J:263:PHE:CE1	44:II:282:TYR:CB	1.98	1.16
37:5B:102:TYR:CE2	44:KE:394:LYS:CE	2.27	1.16
44:EE:188:ILE:HD11	44:EE:425:LEU:HD21	1.28	1.16
44:KA:93:ILE:HD12	44:KA:117:LEU:HD21	1.20	1.16
45:PF:20:PHE:CZ	45:PF:25:SER:CA	2.28	1.16
45:TL:178:THR:HB	45:TL:181:GLU:HG3	1.25	1.16
37:5B:102:TYR:CD2	44:KE:394:LYS:CE	2.29	1.16
45:PF:312:THR:HA	45:PF:348:ASN:HB2	1.27	1.16
45:RD:64:ILE:HA	45:RD:89:ASN:HB3	1.24	1.16
45:VB:49:VAL:HG11	45:VB:241:ARG:HG2	1.27	1.16
35:6R:294:ASN:ND2	45:DN:217:LEU:CD1	2.09	1.16
35:6R:294:ASN:OD1	45:DN:219:THR:OG1	1.62	1.16
35:6R:317:HIS:CD2	45:CN:358:PRO:HB3	1.81	1.16
44:EM:63:PRO:HG2	44:EM:87:PHE:HA	1.27	1.16
45:PL:5:VAL:HG12	45:PL:62:ARG:HD3	1.22	1.16
45:QB:20:PHE:HB2	45:QB:233:MET:HE3	1.27	1.16
45:RD:289:LEU:HD11	45:RD:363:MET:HB3	1.17	1.16
45:TD:97:ALA:HA	45:TD:103:LYS:HD2	1.23	1.16
45:UH:55:THR:HG23	45:VH:283:ALA:HA	1.24	1.16
35:6R:288:LYS:NZ	44:CM:45:GLY:N	1.93	1.16
45:AF:286:VAL:HG13	45:AF:287:PRO:HD3	1.18	1.16
44:OE:209:ILE:HD12	44:OE:212:ILE:HG13	1.27	1.16
45:NB:317:PHE:HA	45:NB:365:VAL:HG22	1.20	1.15
35:6R:50:ASP:CB	35:6R:51:PRO:HD2	1.75	1.15
35:6R:118:LEU:HD13	35:6R:129:VAL:HG22	1.17	1.15
35:6R:344:ASN:HB3	45:CN:33:THR:CG2	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:254:GLU:HG2	45:CH:98:GLY:HA2	1.24	1.15
45:ED:248:SER:HA	45:ED:252:LYS:HD2	1.20	1.15
44:GE:254:GLU:HG2	45:GH:98:GLY:HA2	1.28	1.15
44:II:36:MET:HG3	44:II:37:PRO:HD2	1.19	1.15
37:5D:46:ILE:HD12	44:KK:435:VAL:HB	1.22	1.15
44:KI:340:THR:HG23	44:KI:341:ILE:HD12	1.22	1.15
45:UH:324:LYS:HD3	44:UI:222:PRO:HG2	1.26	1.15
35:6R:323:LEU:CD1	45:CN:276:ARG:HD2	1.74	1.15
44:NE:329:ASN:HB2	45:NH:175:VAL:HG11	1.28	1.15
45:RJ:324:LYS:HG3	44:RK:222:PRO:HD2	1.22	1.15
45:TH:91:VAL:HG21	45:TH:116:VAL:HB	1.27	1.15
45:TH:169:VAL:HG22	45:TH:202:ILE:HB	1.28	1.15
44:TK:115:VAL:HG21	44:TK:152:LEU:HD23	1.25	1.15
44:UI:69:ASP:HB3	44:UI:75:ILE:HD11	1.24	1.15
45:UJ:55:THR:HG23	45:VJ:283:ALA:HA	1.25	1.15
45:WD:207:LEU:HD22	45:WD:225:LEU:HD23	1.29	1.15
15:1V:146:PRO:HG2	44:LK:414:GLU:OE2	1.43	1.14
11:6Q:78:MET:HE3	11:6Q:80:ILE:HD11	1.29	1.14
45:BL:248:SER:HA	45:BL:252:LYS:HD3	1.28	1.14
44:EE:287:SER:HB3	44:EE:290:GLU:HG2	1.28	1.14
44:WM:69:ASP:HB3	44:WM:75:ILE:HD11	1.24	1.14
37:5C:102:TYR:CD2	44:KI:394:LYS:CE	2.29	1.14
35:6R:118:LEU:CD1	35:6R:128:HIS:O	1.95	1.14
45:JB:11:GLN:HA	45:JB:72:THR:HG21	1.30	1.14
44:JG:268:MET:HG2	44:JG:380:ASN:HB2	1.17	1.14
45:NF:317:PHE:HA	45:NF:365:VAL:HG12	1.27	1.14
22:2L:491:GLN:HA	35:6R:215:LEU:HD12	1.19	1.14
6:3E:119:ASP:C	35:6R:579:ASN:ND2	2.00	1.14
37:5D:34:PHE:CD2	44:KK:431:ASP:N	2.15	1.14
44:GK:223:THR:HG22	45:GL:322:SER:HA	1.17	1.14
45:GN:396:HIS:HA	45:GN:399:THR:HG22	1.16	1.14
45:HB:317:PHE:HA	45:HB:365:VAL:HG22	1.23	1.14
44:IM:292:THR:HG21	44:IM:331:SER:HB3	1.27	1.14
44:SE:70:LEU:HA	44:SE:95:GLY:HA3	1.24	1.14
20:1J:263:PHE:CG	44:II:282:TYR:CB	2.29	1.14
35:6R:231:TYR:OH	45:CN:216:LYS:CB	1.95	1.14
44:BM:175:PRO:HG2	44:BM:304:LYS:HE3	1.30	1.14
44:DK:192:HIS:HA	44:DK:195:LEU:HD23	1.29	1.14
44:II:340:THR:HG23	44:II:341:ILE:HD12	1.29	1.14
45:VF:173:PRO:HG3	45:VF:380:ARG:HD3	1.28	1.14
45:VN:286:VAL:HG23	45:VN:287:PRO:CD	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:295:GLN:NE2	45:FH:362:LYS:HA	1.62	1.14
44:DK:311:LYS:HE2	44:DK:344:VAL:HA	1.19	1.14
44:ME:191:THR:HB	44:ME:393:HIS:HB2	1.19	1.14
45:TJ:3:GLU:HA	45:TJ:49:VAL:HG13	1.25	1.14
45:UB:317:PHE:HA	45:UB:365:VAL:HG22	1.29	1.14
44:VE:135:PHE:HB2	44:VE:166:LYS:HG2	1.24	1.14
44:VE:254:GLU:HG2	45:VH:98:GLY:HA2	1.26	1.14
35:6R:317:HIS:HD2	45:CN:358:PRO:HB3	0.99	1.13
35:6R:404:LEU:HD13	45:DN:77:ARG:HD3	1.24	1.13
45:HN:246:LEU:HD13	45:HN:353:ILE:HD13	1.19	1.13
44:TG:271:SER:HA	44:TG:302:MET:HG2	1.29	1.13
44:VE:69:ASP:HB3	44:VE:75:ILE:HD11	1.28	1.13
35:6R:12:LEU:O	45:LN:227:HIS:NE2	1.81	1.13
45:EF:326:VAL:HG11	45:EF:353:ILE:HD11	1.30	1.13
44:EM:405:VAL:HG12	44:EM:409:VAL:HG23	1.31	1.13
44:PA:222:PRO:HG2	45:PB:324:LYS:HG3	1.21	1.13
44:QG:242:LEU:HD21	44:QG:251:ASP:HA	1.26	1.13
44:SK:275:ILE:HD12	44:SK:368:LEU:HD11	1.26	1.13
45:AF:100:ASN:HD22	45:AF:103:LYS:HG2	1.12	1.13
45:DD:248:SER:HA	45:DD:252:LYS:HD2	1.25	1.13
44:EI:276:ILE:HD11	44:EI:280:LYS:HG2	1.30	1.13
44:NI:340:THR:HG23	44:NI:341:ILE:HD12	1.27	1.13
37:5B:102:TYR:CE1	44:KE:394:LYS:CE	2.32	1.13
37:5C:102:TYR:CZ	44:KI:394:LYS:CE	2.32	1.13
44:EG:88:HIS:HB3	44:EG:91:GLN:HG3	1.31	1.13
45:IH:200:MET:HG2	45:IH:266:PHE:HB2	1.16	1.13
44:JM:247:ALA:HB3	44:JM:355:ILE:HD11	1.21	1.13
37:5C:102:TYR:CE1	44:KI:394:LYS:CE	2.32	1.13
44:CK:288:VAL:HA	44:CK:291:ILE:HG12	1.25	1.13
44:CM:69:ASP:HB3	44:CM:75:ILE:HD11	1.28	1.13
6:0E:61:LYS:HB2	45:DB:37:HIS:HB3	1.32	1.12
20:1J:263:PHE:CD2	44:II:282:TYR:CG	2.37	1.12
15:2V:124:LEU:HD21	45:LH:409:THR:HG21	1.30	1.12
37:5B:102:TYR:CZ	44:KE:394:LYS:CE	2.32	1.12
44:DK:292:THR:HG21	44:DK:331:SER:HB3	1.29	1.12
45:DN:64:ILE:HA	45:DN:89:ASN:HB3	1.27	1.13
44:JA:269:LEU:HD22	44:JA:384:ILE:HD11	1.20	1.13
44:JA:340:THR:HG23	44:JA:341:ILE:HD12	1.20	1.12
45:JB:202:ILE:HD13	45:JB:268:ILE:HD11	1.20	1.12
44:JK:292:THR:HG21	44:JK:331:SER:HB2	1.20	1.12
44:QI:2:ARG:HA	44:QI:131:GLY:HA3	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:288:VAL:HG11	44:PK:327:ASP:HB3	1.17	1.12
45:UB:134:GLN:HG2	45:UB:165:GLU:HB2	1.30	1.12
44:DI:347:CYS:HA	45:DJ:388:MET:HE1	1.20	1.12
44:GC:254:GLU:HG2	45:GF:98:GLY:HA2	1.28	1.12
45:GD:330:MET:HE3	45:GD:349:ILE:HD13	1.29	1.12
44:LA:340:THR:HG23	44:LA:341:ILE:HD12	1.21	1.12
45:NB:135:ILE:HD12	45:NB:152:ILE:HD11	1.31	1.12
45:TJ:139:LEU:HD22	45:TJ:170:VAL:HG12	1.22	1.12
45:GB:318:ARG:HD3	45:GB:358:PRO:HD3	1.15	1.12
44:GI:254:GLU:HG2	45:GL:98:GLY:HA2	1.29	1.12
44:KC:221:ARG:HH12	45:KD:325:GLU:HB2	1.13	1.12
35:6R:268:GLU:HB3	45:DN:280:GLN:HG3	1.26	1.12
44:RG:286:LEU:HB3	44:RG:291:ILE:HG22	1.30	1.12
44:UK:54:SER:HB3	44:UK:64:ARG:NH1	1.62	1.12
37:5D:108:ARG:HB2	44:NM:278:ALA:HA	1.19	1.12
11:6Q:115:LYS:HE2	44:AM:264:ARG:HD3	1.26	1.12
45:QD:200:MET:HE1	45:QD:266:PHE:HB2	1.31	1.12
44:QI:280:LYS:HD3	44:QI:283:HIS:HB2	1.27	1.12
15:3V:124:LEU:HD21	45:LD:409:THR:HG21	1.28	1.11
45:AB:285:THR:HG23	45:AB:287:PRO:HD2	1.12	1.11
45:BJ:152:ILE:HG23	45:BJ:164:MET:HE1	1.30	1.11
45:NH:60:VAL:HG23	45:NH:86:ARG:HH11	1.06	1.11
44:PC:288:VAL:HG11	44:PC:327:ASP:HB3	1.29	1.11
45:QL:42:LEU:HA	45:QL:45:GLU:HG3	1.30	1.11
45:UL:55:THR:HG23	45:VL:283:ALA:HA	1.25	1.11
45:VB:130:LEU:HD23	45:VB:162:ARG:HG3	1.27	1.11
1:6H:259:THR:HG21	44:FE:77:GLU:HG3	1.17	1.11
20:1J:263:PHE:CE2	44:II:282:TYR:CG	2.37	1.11
21:2K:273:SER:HB2	44:GK:279:GLU:HG2	1.27	1.11
6:3E:119:ASP:O	35:6R:579:ASN:ND2	1.83	1.11
35:6R:436:GLU:CD	45:FN:280:GLN:CG	2.18	1.11
44:BG:88:HIS:HB3	44:BG:91:GLN:HG2	1.31	1.11
44:CK:254:GLU:HG2	45:CL:98:GLY:HA2	1.22	1.11
45:DJ:64:ILE:HD13	45:DJ:120:VAL:HG22	1.33	1.11
45:DL:200:MET:HE2	45:DL:266:PHE:HB2	1.29	1.11
44:EK:175:PRO:HG3	44:EK:304:LYS:HE2	1.15	1.11
44:EK:212:ILE:HD12	44:EK:215:ARG:HH21	1.15	1.11
45:FD:60:VAL:HG23	45:FD:86:ARG:HH11	1.12	1.11
44:LK:222:PRO:HD2	45:LL:324:LYS:HG3	1.30	1.11
45:NB:44:LEU:HD23	45:NB:47:ILE:HD12	1.32	1.11
45:VD:242:PHE:HB3	45:VD:356:ILE:HD13	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:337:ASN:HB3	45:VD:340:TYR:HB2	1.32	1.11
35:6R:319:PRO:HB3	45:CN:227:HIS:HB3	1.15	1.11
45:BN:99:ASN:HA	45:BN:142:GLY:HA3	1.33	1.11
44:JK:14:ILE:HG21	44:JK:74:VAL:HG11	1.29	1.11
44:VA:298:PRO:HA	44:VA:301:MET:HE1	1.29	1.11
44:WE:101:ASN:HB3	44:WE:182:VAL:HG11	1.31	1.11
2:2A:128:HIS:HA	45:AJ:361:LEU:HD21	1.30	1.11
44:DK:11:GLN:HG3	44:DK:74:VAL:HG11	1.20	1.11
45:PJ:314:SER:HB2	45:PJ:350:LYS:HB3	1.32	1.11
44:RI:51:THR:HG21	44:RI:243:ARG:HB3	1.31	1.11
44:SE:203:MET:HG3	44:SE:384:ILE:HD11	1.31	1.11
45:SH:207:LEU:HB3	45:SH:225:LEU:HD22	1.33	1.11
45:TJ:169:VAL:HG22	45:TJ:202:ILE:HB	1.31	1.11
35:6R:268:GLU:HB3	45:DN:280:GLN:CG	1.63	1.11
35:7R:301:PRO:HG3	45:CB:74:ASP:HB3	1.31	1.11
45:UJ:345:ILE:HA	44:UK:398:MET:HE1	1.23	1.11
45:VB:286:VAL:HG13	45:VB:287:PRO:HD3	1.29	1.11
37:5D:113:VAL:HG12	44:NM:373:ARG:HG3	1.31	1.10
45:HB:178:THR:HB	45:HB:181:GLU:HG3	1.29	1.10
45:KJ:236:VAL:HG13	45:KJ:237:THR:HG23	1.32	1.10
45:RF:5:VAL:HG12	45:RF:62:ARG:HH12	1.11	1.10
45:RJ:7:ILE:HG21	45:RJ:135:ILE:HD13	1.19	1.10
44:UG:254:GLU:HG2	45:UH:98:GLY:HA2	1.30	1.10
44:VE:407:TRP:HZ3	45:VF:255:VAL:HA	1.15	1.10
34:4F:212:ALA:HB3	45:HN:53:GLU:HG2	1.16	1.10
35:6R:404:LEU:HD11	45:DN:77:ARG:HD3	1.19	1.10
44:BK:340:THR:HG23	44:BK:341:ILE:HD12	1.33	1.10
44:EA:37:PRO:HG3	44:EA:40:LYS:HB2	1.30	1.10
44:KC:51:THR:HG21	44:KC:243:ARG:HD3	1.31	1.10
44:MM:181:VAL:HG12	45:MN:256:ASN:HD22	1.13	1.10
44:RG:259:LEU:HB3	44:RG:268:MET:HE1	1.25	1.10
45:SJ:289:LEU:HD11	45:SJ:363:MET:HE1	1.28	1.10
45:TL:317:PHE:HA	45:TL:365:VAL:HG22	1.24	1.10
44:WK:175:PRO:HG3	44:WK:304:LYS:HE2	1.33	1.10
37:5B:102:TYR:CD1	44:KE:394:LYS:CE	2.34	1.10
36:5S:211:ASN:HB3	36:5S:217:LEU:HD21	1.27	1.10
35:6R:249:LEU:CD1	44:CM:370:LYS:HZ1	1.65	1.10
35:6R:249:LEU:HD12	44:CM:370:LYS:HZ1	1.15	1.10
35:6R:413:ILE:CG2	35:6R:417:TYR:CE2	2.34	1.10
44:EA:36:MET:HG3	44:EA:37:PRO:CD	1.81	1.10
45:JB:211:CYS:HB3	45:JB:217:LEU:HD21	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:296:ALA:HA	45:JB:299:MET:HE1	1.29	1.10
44:KK:340:THR:HG23	44:KK:341:ILE:HD12	1.27	1.10
44:NG:99:ALA:HA	44:NG:105:ARG:HD2	1.29	1.10
45:QB:318:ARG:HB2	45:QB:364:ALA:HB3	1.28	1.10
45:RL:260:PHE:HB2	45:RL:263:LEU:HD13	1.28	1.10
4:OC:56:THR:HA	44:EI:219:ILE:HG12	1.34	1.10
22:3L:42:LYS:HB3	45:BB:320:ARG:NH1	1.45	1.10
35:6R:391:PHE:HE1	45:EN:228:LEU:HD21	0.95	1.10
44:EG:288:VAL:HG11	44:EG:327:ASP:HB3	1.22	1.10
45:ML:259:PRO:HD2	45:ML:260:PHE:H	1.16	1.10
45:PJ:317:PHE:HA	45:PJ:365:VAL:HG22	1.31	1.10
44:QK:89:PRO:HG3	44:RK:280:LYS:HD2	1.17	1.10
44:UK:10:GLY:HA2	44:UK:145:THR:HG23	1.13	1.10
45:WN:248:SER:HA	45:WN:252:LYS:HD3	1.29	1.10
23:1M:79:VAL:HB	44:IC:39:ASP:HA	1.32	1.10
37:5D:34:PHE:CD1	44:KK:431:ASP:HA	1.87	1.10
45:DB:207:LEU:HB3	45:DB:225:LEU:HD22	1.25	1.10
45:EJ:42:LEU:HA	45:EJ:45:GLU:HG3	1.33	1.10
44:HE:89:PRO:HG2	44:IE:280:LYS:HG2	1.26	1.10
44:HM:241:SER:HB3	44:HM:242:LEU:HB2	1.31	1.10
45:IJ:173:PRO:HG3	45:IJ:380:ARG:HD3	1.26	1.10
44:JK:7:ILE:HB	44:JK:137:VAL:HG12	1.30	1.10
44:OI:68:LEU:HD11	44:OI:118:CYS:HB2	1.33	1.10
44:PK:89:PRO:HG3	44:QK:280:LYS:HG3	1.14	1.10
45:QF:99:ASN:HA	45:QF:142:GLY:HA3	1.34	1.10
45:QH:200:MET:HG2	45:QH:266:PHE:HB2	1.10	1.10
44:WG:398:MET:HE1	45:WH:345:ILE:HA	1.33	1.10
19:1I:89:THR:HG21	45:JD:320:ARG:HD3	1.28	1.09
35:5R:7:LYS:HD2	35:5R:8:THR:HG23	1.25	1.09
44:BK:102:ASN:HB3	44:BK:105:ARG:HG3	1.33	1.09
44:DC:254:GLU:HG2	45:DD:98:GLY:HA2	1.23	1.09
45:EF:42:LEU:HA	45:EF:45:GLU:HG3	1.32	1.09
44:FC:340:THR:HG23	44:FC:341:ILE:HD12	1.34	1.09
45:NB:54:ALA:HA	45:OB:283:ALA:HB2	1.24	1.09
44:WA:60:LYS:HZ3	44:WA:62:VAL:HA	1.07	1.09
44:WA:272:TYR:HB2	44:WA:302:MET:HE1	1.26	1.09
38:5G:214:LEU:HD21	44:LK:437:ILE:HD11	1.33	1.09
45:BL:207:LEU:HB3	45:BL:225:LEU:HD22	1.33	1.09
44:CE:204:LEU:HD13	44:CE:231:ILE:HD11	1.34	1.09
44:DA:147:SER:HB2	44:DA:190:SER:HB3	1.33	1.09
45:FL:317:PHE:HA	45:FL:365:VAL:HG22	1.33	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HE:188:ILE:HD12	44:HE:425:LEU:HD11	1.27	1.09
44:RM:141:VAL:HG22	44:RM:187:SER:HA	1.26	1.09
45:TN:68:LEU:HD13	45:TN:96:GLY:HA2	1.26	1.09
6:2E:61:LYS:HG3	45:DJ:37:HIS:HB3	1.34	1.09
37:5D:39:ARG:HG3	44:KK:260:VAL:HG13	1.20	1.09
35:6R:404:LEU:HD13	45:DN:77:ARG:HH11	1.11	1.09
44:AM:96:LYS:HB3	45:AN:1:MET:HE2	1.31	1.09
44:GC:11:GLN:HG3	44:GC:74:VAL:HG11	1.25	1.09
45:HF:248:SER:HA	45:HF:252:LYS:HD2	1.27	1.09
44:LK:222:PRO:HG2	45:LL:324:LYS:CE	1.82	1.09
44:NM:319:TYR:HB2	44:NM:355:ILE:HG23	1.34	1.09
44:OE:93:ILE:HD13	44:OE:117:LEU:HB3	1.17	1.09
45:TJ:178:THR:HB	45:TJ:181:GLU:HG3	1.30	1.09
44:VA:229:ARG:HD3	44:VA:363:VAL:HG11	1.33	1.09
45:VB:215:LEU:HD22	45:VB:217:LEU:HB3	1.34	1.09
35:6R:404:LEU:HD13	45:DN:77:ARG:NH1	1.68	1.09
45:CF:200:MET:HG2	45:CF:266:PHE:HB2	1.34	1.09
44:DI:135:PHE:HB2	44:DI:166:LYS:HG2	1.26	1.09
45:IH:68:LEU:HD11	45:IH:147:MET:HE3	1.30	1.09
45:NH:287:PRO:HG3	45:NH:329:GLN:HE22	1.13	1.09
44:OC:276:ILE:HG23	44:OC:280:LYS:HE2	1.27	1.09
44:PI:301:MET:HE1	44:PI:307:PRO:HB3	1.34	1.09
44:QI:135:PHE:HB2	44:QI:166:LYS:HG2	1.28	1.09
44:SC:254:GLU:HG2	45:SD:98:GLY:HA2	1.28	1.09
45:TD:68:LEU:HD11	45:TD:147:MET:HE1	1.33	1.09
45:TL:316:LEU:HA	45:TL:352:SER:HB2	1.32	1.09
45:VJ:97:ALA:HB3	45:VJ:143:THR:HG22	1.28	1.09
44:WG:73:THR:HB	45:WH:247:ASN:HD22	1.17	1.09
1:6H:368:GLY:O	45:FL:360:GLY:O	1.70	1.09
15:1V:48:VAL:HG11	44:LI:117:LEU:HD11	1.23	1.09
6:3E:119:ASP:CA	35:6R:579:ASN:ND2	1.88	1.09
44:FI:254:GLU:HG2	45:FL:98:GLY:HA2	1.29	1.09
44:HM:67:PHE:HB2	44:HM:92:LEU:HG	1.30	1.09
44:IM:167:LEU:HG	44:IM:200:VAL:HB	1.34	1.09
45:LF:91:VAL:HG21	45:LF:116:VAL:HG22	1.34	1.09
45:NL:286:VAL:HG11	45:NL:325:GLU:HG3	1.26	1.09
45:QB:392:LYS:HA	45:QB:395:LEU:HD12	1.30	1.09
45:RJ:309:ARG:HG3	45:RJ:426:GLN:HE21	1.14	1.09
44:SA:314:ALA:HB3	44:SA:380:ASN:HB3	1.35	1.09
44:UA:48:ALA:HB1	44:UA:243:ARG:HB2	1.29	1.09
25:1P:362:LYS:HE2	45:TB:357:PRO:HG2	1.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5C:102:TYR:CD1	44:KI:394:LYS:CE	2.35	1.08
44:CI:67:PHE:HB2	44:CI:92:LEU:HG	1.34	1.08
44:KG:175:PRO:HG3	44:KG:304:LYS:HG2	1.35	1.08
44:ME:384:ILE:HD13	44:ME:433:GLU:HA	1.33	1.08
44:MG:286:LEU:HB3	44:MG:373:ARG:HH12	1.12	1.08
45:OD:237:THR:HG22	45:OD:250:LEU:HD11	1.33	1.08
44:QI:254:GLU:HG2	45:QJ:98:GLY:HA2	1.32	1.08
44:SC:325:PRO:HG2	45:SD:222:TYR:HE1	1.18	1.08
44:TA:135:PHE:HB2	44:TA:166:LYS:HG2	1.35	1.08
45:VN:345:ILE:HG12	45:VN:348:ASN:HB3	1.34	1.08
35:6R:476:HIS:NE2	35:6R:498:LEU:HB3	1.67	1.08
44:DG:119:LEU:HD22	44:DG:156:ARG:HD3	1.18	1.08
44:JK:349:THR:HG23	45:JN:176:SER:HB2	1.35	1.08
45:KB:285:THR:HG23	45:KB:287:PRO:HD2	1.30	1.08
44:KC:340:THR:HG23	44:KC:341:ILE:HD12	1.35	1.08
45:QN:169:VAL:HG22	45:QN:202:ILE:HB	1.29	1.08
44:SG:105:ARG:HA	44:SG:109:THR:HB	1.26	1.08
44:UM:270:SER:HA	44:UM:378:ILE:HA	1.28	1.08
45:WD:42:LEU:HD22	45:WD:356:ILE:HD11	1.35	1.08
1:6H:300:GLU:HB2	45:FH:355:ASP:OD2	1.33	1.08
15:2V:98:LEU:HD11	44:LE:405:VAL:HG21	1.30	1.08
26:3R:3:SER:OG	35:6R:55:ASP:O	1.69	1.08
26:3R:97:ARG:HB3	44:AK:42:ILE:HD11	1.29	1.08
37:5D:34:PHE:CD1	44:KK:431:ASP:CA	2.37	1.08
37:5D:114:PRO:HA	44:NM:372:MET:HB3	1.31	1.08
35:6R:90:ARG:NH1	44:AM:42:ILE:HD13	1.66	1.08
45:AF:186:THR:HA	45:AF:415:MET:HE1	1.32	1.08
44:BE:324:VAL:HG12	44:BE:325:PRO:HD2	1.33	1.08
45:CN:51:TYR:HB3	45:CN:59:TYR:HB3	1.26	1.08
45:ED:178:THR:HB	45:ED:181:GLU:HG3	1.32	1.08
44:EK:11:GLN:HG3	44:EK:74:VAL:HG11	1.32	1.08
44:GE:278:ALA:HB2	44:GE:369:ALA:HB2	1.31	1.08
45:HN:215:LEU:HD13	45:HN:275:SER:HA	1.35	1.08
44:MC:254:GLU:HG2	45:MF:98:GLY:HA2	1.33	1.08
44:QI:200:VAL:HA	44:QI:266:HIS:HB2	1.29	1.08
44:SC:259:LEU:HD11	44:SC:316:SER:HB2	1.35	1.08
45:TL:313:ALA:HB3	45:TL:349:ILE:HA	1.32	1.08
44:WG:37:PRO:HB2	44:WG:40:LYS:HB2	1.32	1.08
45:AF:286:VAL:CG1	45:AF:287:PRO:HD3	1.82	1.08
45:CH:139:LEU:HD21	45:CH:185:ALA:HA	1.24	1.08
45:CN:240:LEU:HD12	45:CN:249:ASP:HA	1.33	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:316:LEU:HG	45:EF:352:SER:HB2	1.32	1.08
44:GG:254:GLU:HG2	45:GJ:98:GLY:HA2	1.26	1.08
45:RL:33:THR:O	45:RL:58:ARG:NH1	1.87	1.08
44:SI:208:ALA:HA	44:SI:304:LYS:HE3	1.35	1.08
45:TF:337:ASN:HB3	45:TF:340:TYR:HB2	1.28	1.08
1:6H:174:MET:HG2	45:FB:320:ARG:HB3	1.36	1.08
1:6H:210:VAL:HG11	45:FD:276:ARG:NH2	1.67	1.08
40:6F:43:GLU:HB2	40:6F:56:LEU:HD23	1.34	1.08
35:6R:538:PHE:CD1	35:6R:578:TYR:CE1	2.41	1.08
45:AH:178:THR:HB	45:AH:181:GLU:HG3	1.34	1.08
45:BF:178:THR:HB	45:BF:181:GLU:HG3	1.30	1.08
45:CL:113:ILE:HD13	45:CL:150:LEU:HD22	1.35	1.08
45:CN:248:SER:HA	45:CN:252:LYS:HE3	1.36	1.08
44:GA:105:ARG:HA	44:GA:109:THR:HB	1.33	1.08
44:MM:208:ALA:HA	44:MM:304:LYS:HE3	1.31	1.08
45:NH:54:ALA:HA	45:OH:283:ALA:HB2	1.35	1.08
45:ON:318:ARG:HB3	45:ON:357:PRO:HA	1.35	1.08
44:PE:311:LYS:HD2	44:PE:342:GLN:HG3	1.35	1.08
45:PN:55:THR:HG23	45:QL:283:ALA:HA	1.26	1.08
45:QJ:309:ARG:HG2	45:QJ:340:TYR:HA	1.25	1.08
45:TD:152:ILE:HD12	45:TD:164:MET:HE1	1.36	1.08
45:TH:257:LEU:HD11	45:TH:314:SER:HB2	1.35	1.08
45:UH:248:SER:HA	45:UH:252:LYS:HD2	1.28	1.08
44:UK:321:GLY:HA2	44:UK:359:PRO:HG3	1.34	1.08
35:6R:94:ARG:NH2	44:AM:41:THR:CG2	2.17	1.07
45:AH:207:LEU:HD13	45:AH:225:LEU:HB3	1.34	1.07
44:FK:328:VAL:HG11	44:FK:353:VAL:HG21	1.32	1.07
45:NJ:320:ARG:HH22	45:NJ:355:ASP:HA	0.95	1.07
45:QN:113:ILE:HD13	45:QN:150:LEU:HD22	1.36	1.07
44:UG:242:LEU:HD21	44:UG:252:ILE:HG12	1.33	1.07
44:UK:209:ILE:HD13	44:UK:231:ILE:HD11	1.35	1.07
45:VF:86:ARG:HD3	45:WF:281:TYR:HB3	1.29	1.07
45:VL:316:LEU:HA	45:VL:352:SER:HB2	1.31	1.07
44:WG:191:THR:HG21	44:WG:425:LEU:HD21	1.32	1.07
34:4F:204:PRO:HG2	44:IM:280:LYS:HE3	1.09	1.07
35:6R:323:LEU:CD2	45:CN:276:ARG:NH1	2.10	1.07
45:AD:178:THR:HB	45:AD:181:GLU:HG3	1.33	1.07
45:CJ:317:PHE:HA	45:CJ:365:VAL:HG12	1.37	1.07
45:FL:178:THR:HB	45:FL:181:GLU:HG3	1.33	1.07
45:GB:7:ILE:HB	45:GB:135:ILE:HD12	1.34	1.07
44:OI:292:THR:HG21	44:OI:331:SER:HB3	1.25	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:135:ILE:HB	45:PH:166:THR:HG22	1.37	1.07
44:TM:311:LYS:HD2	44:TM:342:GLN:HG3	1.36	1.07
45:CL:259:PRO:HD2	45:CL:260:PHE:H	1.12	1.07
44:FA:70:LEU:HA	44:FA:95:GLY:HA3	1.37	1.07
45:GD:260:PHE:HB2	45:GD:263:LEU:HD13	1.36	1.07
45:LF:15:GLN:HB3	45:LF:226:ASN:HD21	1.18	1.07
45:OL:49:VAL:HG21	45:OL:241:ARG:HG2	1.36	1.07
44:QI:64:ARG:HD3	44:QI:125:LEU:HD22	1.32	1.07
44:SA:326:LYS:HG2	45:SB:220:PRO:HD2	1.31	1.07
44:TC:175:PRO:HG2	44:TC:304:LYS:HD2	1.30	1.07
44:UA:317:MET:HE2	44:UA:375:VAL:HG22	1.34	1.07
44:UM:101:ASN:HA	44:UM:144:GLY:HA3	1.24	1.07
37:5D:40:VAL:HG11	44:KK:380:ASN:HB3	1.37	1.07
45:AB:318:ARG:NH1	45:AB:356:ILE:O	1.86	1.07
45:BD:55:THR:HG23	45:CB:283:ALA:HA	1.35	1.07
44:BE:102:ASN:HB3	44:BE:105:ARG:HG3	1.36	1.07
45:CB:5:VAL:HG12	45:CB:62:ARG:HD3	1.35	1.07
45:EH:49:VAL:HG21	45:EH:241:ARG:HG2	1.36	1.07
45:EH:178:THR:HB	45:EH:181:GLU:HG3	1.33	1.07
44:FA:179:THR:HG23	45:FB:351:SER:HB2	1.30	1.07
45:GD:99:ASN:HA	45:GD:142:GLY:HA3	1.29	1.07
44:HK:316:SER:HB2	44:HK:352:LYS:HB3	1.32	1.07
45:IB:312:THR:HG22	45:IB:370:ASN:HB3	1.37	1.07
44:JE:350:GLY:HA2	45:JH:179:VAL:HG12	1.37	1.07
45:KF:5:VAL:HG12	45:KF:62:ARG:HD3	1.37	1.07
44:LG:348:PRO:HG2	45:LJ:384:GLN:HE22	1.16	1.07
44:PE:269:LEU:HD11	44:PE:384:ILE:HD13	1.34	1.07
45:PN:178:THR:HB	45:PN:181:GLU:HG3	1.36	1.07
44:RA:254:GLU:HG2	45:RB:98:GLY:HA2	1.35	1.07
45:SJ:211:CYS:HA	45:SJ:215:LEU:HB2	1.37	1.07
44:SM:188:ILE:HD12	44:SM:425:LEU:HD11	1.32	1.07
45:TJ:318:ARG:HB2	45:TJ:364:ALA:HB3	1.36	1.07
45:UN:132:GLY:HA2	45:UN:162:ARG:HB3	1.30	1.07
45:VH:5:VAL:HG12	45:VH:62:ARG:HD3	1.33	1.07
45:VL:135:ILE:HB	45:VL:166:THR:HG22	1.36	1.07
45:WF:337:ASN:HB3	45:WF:340:TYR:HB2	1.29	1.07
40:6F:45:LYS:HG3	45:IF:41:ASP:HB2	1.35	1.07
35:6R:268:GLU:HB2	45:DN:280:GLN:HG2	1.07	1.07
45:EB:113:ILE:HG12	45:EB:117:LEU:HB2	1.33	1.07
45:EH:136:THR:HG22	45:EH:167:PHE:HB2	1.36	1.07
45:EJ:256:ASN:HD22	45:EJ:350:LYS:HD3	1.20	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:86:ARG:HH21	45:ID:88:ASP:HB3	1.14	1.07
45:JJ:207:LEU:HB3	45:JJ:225:LEU:HD22	1.35	1.07
45:KN:200:MET:HE1	45:KN:266:PHE:HB2	1.37	1.07
45:LD:267:MET:HB3	45:LD:299:MET:HE2	1.22	1.07
45:ON:54:ALA:HA	45:PN:283:ALA:HB2	1.35	1.07
45:QL:318:ARG:HG2	45:QL:354:CYS:HB3	1.33	1.07
45:RD:130:LEU:HB3	45:RD:162:ARG:HD2	1.36	1.07
44:WI:9:VAL:HG12	44:WI:68:LEU:HB2	1.31	1.07
45:WL:113:ILE:HD13	45:WL:150:LEU:HD22	1.31	1.07
20:1J:263:PHE:CD1	44:II:282:TYR:HB3	1.80	1.06
35:6R:509:ASP:OD2	44:EM:40:LYS:HA	1.55	1.06
35:7R:455:VAL:HB	35:7R:471:LEU:HB2	1.36	1.06
45:BD:207:LEU:HB3	45:BD:225:LEU:HD22	1.33	1.06
44:DG:204:LEU:HD13	44:DG:231:ILE:HD11	1.35	1.06
44:KA:239:THR:HG22	44:KA:243:ARG:HD2	1.35	1.06
45:LB:138:SER:HA	45:LB:169:VAL:HB	1.36	1.06
44:LI:247:ALA:HB3	44:LI:355:ILE:HD11	1.30	1.06
45:LJ:58:ARG:HH12	45:MJ:280:GLN:HB2	1.17	1.06
44:NA:288:VAL:HG11	44:NA:327:ASP:HB3	1.32	1.06
44:NG:69:ASP:HB3	44:NG:75:ILE:HD11	1.34	1.06
44:QA:317:MET:HA	44:QA:377:MET:HA	1.21	1.06
45:QL:135:ILE:HG13	45:QL:152:ILE:HD11	1.35	1.06
20:1J:263:PHE:CE1	44:II:282:TYR:CG	2.43	1.06
44:GA:49:PHE:HB2	44:GA:53:PHE:HB2	1.37	1.06
44:GC:177:VAL:HG22	45:GD:331:LEU:HD22	1.37	1.06
44:OE:7:ILE:HB	44:OE:137:VAL:HG12	1.33	1.06
44:PM:292:THR:HG21	44:PM:331:SER:HB3	1.34	1.06
45:QD:42:LEU:HD22	45:QD:356:ILE:HD11	1.30	1.06
45:QH:248:SER:HA	45:QH:252:LYS:HD2	1.35	1.06
44:RG:200:VAL:HA	44:RG:266:HIS:HB2	1.28	1.06
16:2X:81:ARG:HD3	45:MJ:276:ARG:HD2	1.17	1.06
16:3X:90:ARG:NH2	35:6R:48:LYS:O	1.87	1.06
45:AB:54:ALA:HB1	45:BB:281:TYR:O	1.55	1.06
44:BK:88:HIS:HA	44:BK:89:PRO:HD2	1.37	1.06
45:ED:113:ILE:HD13	45:ED:150:LEU:HD22	1.38	1.06
45:EF:317:PHE:HA	45:EF:365:VAL:HG12	1.33	1.06
44:EI:254:GLU:HG2	45:EJ:98:GLY:HA2	1.35	1.06
45:FH:253:LEU:HD21	45:FH:316:LEU:HD11	1.32	1.06
44:FK:372:MET:HG3	44:FK:373:ARG:HD3	1.37	1.06
45:GF:113:ILE:HD13	45:GF:150:LEU:HD22	1.36	1.06
44:GM:171:ILE:HA	44:GM:204:LEU:HB2	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:202:ILE:HG23	45:HB:300:MET:HB3	1.37	1.06
45:HH:269:GLY:HA2	45:HH:300:MET:HG2	1.36	1.06
44:KI:11:GLN:HG3	44:KI:74:VAL:HG21	1.36	1.06
44:OI:212:ILE:HD11	44:OI:300:ASN:HA	1.36	1.06
45:PF:317:PHE:HA	45:PF:365:VAL:HG22	1.31	1.06
45:RN:318:ARG:HD3	45:RN:358:PRO:HD3	1.35	1.06
44:VM:222:PRO:HD2	45:VN:324:LYS:HE2	1.36	1.06
1:6H:198:MET:CE	44:FA:359:PRO:C	2.13	1.06
37:5D:107:TYR:CG	44:NM:277:SER:HB2	1.89	1.06
35:6R:534:HIS:CE1	35:6R:578:TYR:CZ	2.44	1.06
45:BJ:172:SER:HB2	45:BJ:380:ARG:HH22	1.18	1.06
44:CE:89:PRO:HG2	44:DE:280:LYS:HG3	1.34	1.06
45:JD:135:ILE:HG13	45:JD:152:ILE:HD11	1.36	1.06
45:JL:207:LEU:HB3	45:JL:225:LEU:HD22	1.38	1.06
45:KN:186:THR:HA	45:KN:189:VAL:HB	1.37	1.06
44:NA:326:LYS:HE2	45:ND:219:THR:HG22	1.36	1.06
45:SJ:351:SER:HB2	44:SK:179:THR:HG23	1.35	1.06
44:UG:353:VAL:HG12	45:UH:177:ASP:HA	1.35	1.06
45:VD:99:ASN:HA	45:VD:142:GLY:HA3	1.34	1.06
45:VD:248:SER:HA	45:VD:252:LYS:HD2	1.38	1.06
1:6H:286:GLU:CD	45:FH:227:HIS:CD2	2.01	1.06
20:1J:209:GLU:HG2	45:IJ:217:LEU:HD11	1.27	1.06
37:5C:102:TYR:CG	44:KI:394:LYS:CE	2.38	1.06
45:AH:174:LYS:HD2	45:AH:175:VAL:HG13	1.32	1.06
44:BI:326:LYS:HD3	45:BL:219:THR:HG23	1.36	1.06
45:BJ:178:THR:HB	45:BJ:181:GLU:HG3	1.32	1.06
45:EH:309:ARG:HH21	45:EH:426:GLN:HG2	1.20	1.06
45:EN:392:LYS:HG3	45:EN:395:LEU:HD22	1.32	1.06
45:FB:135:ILE:HG13	45:FB:152:ILE:HD11	1.36	1.06
45:FB:244:GLY:HA3	45:FB:354:CYS:HA	1.31	1.06
44:JA:141:VAL:HG12	44:JA:187:SER:HA	1.37	1.06
45:KF:60:VAL:HG13	45:KF:86:ARG:HD3	1.37	1.06
45:NJ:113:ILE:HD13	45:NJ:150:LEU:HD22	1.38	1.06
45:PF:314:SER:HA	45:PF:350:LYS:HB3	1.34	1.06
44:TI:3:GLU:HG2	44:TI:129:CYS:HB3	1.38	1.06
44:UM:271:SER:HB2	44:UM:377:MET:HB2	1.33	1.06
45:VB:268:ILE:HG22	45:VB:368:VAL:HA	1.38	1.06
44:WA:221:ARG:HA	45:WB:324:LYS:HE2	1.33	1.06
1:6H:293:ASP:HB3	45:FH:360:GLY:HA2	1.11	1.05
35:4R:242:ASN:HB2	44:BE:57:GLY:HA3	1.37	1.05
37:5C:102:TYR:CD2	44:KI:394:LYS:HE3	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:97:ALA:HB3	45:CD:143:THR:HG22	1.34	1.05
44:CG:11:GLN:HG3	44:CG:74:VAL:HG21	1.37	1.05
45:DH:139:LEU:HD12	45:DH:188:SER:HB2	1.30	1.05
44:FG:292:THR:HG21	44:FG:331:SER:HB3	1.37	1.05
45:KH:156:ARG:HD2	45:KH:164:MET:HE2	1.35	1.05
44:PC:51:THR:HG21	44:PC:243:ARG:HB3	1.38	1.05
45:QJ:248:SER:HA	45:QJ:252:LYS:HD2	1.38	1.05
44:UM:213:CYS:HA	44:UM:217:LEU:HD13	1.32	1.05
45:UN:269:GLY:HA2	45:UN:300:MET:HG2	1.34	1.05
44:WM:398:MET:HA	44:WM:401:LYS:HE2	1.37	1.05
12:3S:140:ARG:HD2	11:5Q:72:LYS:HB2	1.33	1.05
37:5B:102:TYR:CG	44:KE:394:LYS:CE	2.38	1.05
38:5G:203:PHE:CE1	44:LK:423:GLU:OE2	2.09	1.05
45:DL:317:PHE:HA	45:DL:365:VAL:HG22	1.38	1.05
45:JL:7:ILE:HB	45:JL:135:ILE:HD12	1.38	1.05
45:KN:60:VAL:HG11	45:KN:86:ARG:HG3	1.38	1.05
44:ME:326:LYS:HD2	45:MH:220:PRO:HD2	1.37	1.05
45:ML:130:LEU:HD23	45:ML:162:ARG:HG2	1.32	1.05
45:QL:61:PRO:HG2	45:QL:84:LEU:HB3	1.31	1.05
45:QN:135:ILE:HB	45:QN:166:THR:HA	1.38	1.05
44:SG:14:ILE:HD11	44:SG:69:ASP:HB2	1.37	1.05
44:UI:209:ILE:HG22	44:UI:227:LEU:HD22	1.39	1.05
37:5D:108:ARG:N	44:NM:280:LYS:H	1.53	1.05
38:5G:203:PHE:CZ	44:LK:422:ARG:HD3	1.92	1.05
44:AC:51:THR:HG21	44:AC:243:ARG:HD3	1.37	1.05
44:BC:328:VAL:HG11	44:BC:353:VAL:HG21	1.29	1.05
45:CN:200:MET:HG3	45:CN:268:ILE:HG23	1.37	1.05
45:EL:42:LEU:HA	45:EL:45:GLU:HG3	1.36	1.05
45:GB:317:PHE:HA	45:GB:365:VAL:HG22	1.38	1.05
45:OB:319:GLY:HA2	45:OB:357:PRO:HG3	1.38	1.05
45:OD:169:VAL:HG22	45:OD:202:ILE:HB	1.29	1.05
45:PB:86:ARG:HE	45:PB:87:PRO:HD2	1.15	1.05
45:RJ:325:GLU:HA	45:RJ:328:GLU:HG2	1.38	1.05
45:TD:248:SER:HA	45:TD:252:LYS:HD3	1.35	1.05
45:TH:135:ILE:HB	45:TH:166:THR:HG22	1.37	1.05
1:6H:198:MET:CE	44:FA:359:PRO:O	2.05	1.05
38:5F:80:LYS:HG2	44:KE:402:ARG:HD3	1.36	1.05
44:BA:11:GLN:HG3	44:BA:74:VAL:HG11	1.32	1.05
45:BF:60:VAL:HG21	45:BF:86:ARG:HG3	1.32	1.05
44:DA:275:ILE:HA	44:DA:368:LEU:HD11	1.37	1.05
44:DI:311:LYS:HZ1	44:DI:344:VAL:HA	1.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:32:PRO:HA	45:EN:84:LEU:HD11	1.34	1.05
44:FC:328:VAL:HG11	44:FC:353:VAL:HG21	1.36	1.05
45:KJ:218:THR:HG23	45:KJ:219:THR:HG23	1.33	1.05
45:OB:178:THR:HB	45:OB:181:GLU:HG3	1.33	1.05
44:PA:269:LEU:HD22	44:PA:384:ILE:HD11	1.37	1.05
45:PF:319:GLY:HA2	45:PF:357:PRO:HG3	1.38	1.05
44:SK:316:SER:HB2	44:SK:352:LYS:HE3	1.39	1.05
45:TJ:207:LEU:HB3	45:TJ:225:LEU:HD22	1.38	1.05
45:WL:60:VAL:HG21	45:WL:86:ARG:HD2	1.38	1.05
1:6H:376:ASP:CG	45:FL:355:ASP:OD1	1.90	1.05
16:2X:29:GLY:HA3	45:ML:217:LEU:HD11	1.38	1.05
41:6G:226:GLY:HA2	44:VC:338:LYS:HD2	1.35	1.05
35:6R:323:LEU:CD2	45:CN:276:ARG:CD	2.34	1.05
35:6R:396:ASP:OD1	45:EN:218:THR:OG1	1.73	1.05
35:6R:436:GLU:HB2	45:FN:280:GLN:CD	1.75	1.05
45:AH:54:ALA:HA	45:BH:283:ALA:HB2	1.35	1.05
45:CD:330:MET:HE3	45:CD:349:ILE:HD13	1.33	1.05
45:CF:361:LEU:HA	45:CF:362:LYS:HB2	1.35	1.05
45:HB:211:CYS:HB3	45:HB:217:LEU:HD21	1.38	1.05
44:IA:181:VAL:HG22	45:IB:256:ASN:HB3	1.39	1.05
44:JM:239:THR:HA	44:JM:242:LEU:HD12	1.36	1.05
45:LD:113:ILE:HD13	45:LD:150:LEU:HD22	1.38	1.05
45:LN:302:ALA:HB3	45:LN:377:MET:HE1	1.38	1.05
45:MD:60:VAL:HG23	45:MD:86:ARG:HH11	1.20	1.05
44:ME:188:ILE:HA	44:ME:393:HIS:HA	1.39	1.05
45:MJ:178:THR:HB	45:MJ:181:GLU:HG3	1.36	1.05
44:NA:278:ALA:HA	44:NA:369:ALA:HB2	1.36	1.05
44:NK:81:GLY:O	44:NK:84:ARG:NH1	1.89	1.05
45:OF:285:THR:HG22	45:OF:287:PRO:HD2	1.35	1.05
44:RA:145:THR:HA	44:RA:149:LEU:HD23	1.30	1.05
45:RH:178:THR:HB	45:RH:181:GLU:HG3	1.35	1.05
45:RH:213:ARG:HH22	45:RH:297:LYS:HB2	1.22	1.05
45:SJ:252:LYS:HA	44:SK:100:ALA:HB1	1.39	1.05
45:SN:7:ILE:HG12	45:SN:64:ILE:HB	1.35	1.05
44:UC:321:GLY:HA3	44:UC:373:ARG:HG2	1.34	1.05
14:0U:236:LEU:HD11	45:WB:33:THR:HG21	1.08	1.04
35:6R:315:MET:CG	45:CN:26:ASP:OD2	2.03	1.04
45:AH:135:ILE:HG13	45:AH:152:ILE:HD11	1.38	1.04
45:BN:318:ARG:HD3	45:BN:358:PRO:HD3	1.39	1.04
44:EC:320:ARG:HA	44:EC:356:ASN:HB3	1.38	1.04
45:GD:200:MET:HG2	45:GD:266:PHE:HB2	1.34	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:156:ARG:HH21	45:GF:195:ASN:HB2	1.19	1.04
44:JI:259:LEU:HD11	44:JI:316:SER:HB3	1.37	1.04
44:NA:49:PHE:HB2	44:NA:53:PHE:HB2	1.37	1.04
44:PM:104:ALA:HA	44:PM:413:MET:HE2	1.39	1.04
45:QJ:316:LEU:HA	45:QJ:352:SER:HB2	1.38	1.04
44:TM:91:GLN:HA	44:TM:121:ARG:HH12	1.20	1.04
44:UK:301:MET:HE1	44:UK:307:PRO:HG3	1.33	1.04
45:VD:49:VAL:HG21	45:VD:241:ARG:HG2	1.35	1.04
16:3X:87:ASP:OD2	35:6R:53:LEU:HD21	1.57	1.04
45:DN:316:LEU:HB2	45:DN:366:THR:HB	1.39	1.04
44:EE:230:LEU:HD11	44:EE:368:LEU:HD21	1.39	1.04
45:EN:55:THR:HG23	45:FN:283:ALA:HA	1.39	1.04
44:FG:7:ILE:HD11	44:FG:122:ILE:HD13	1.38	1.04
45:GB:200:MET:HE1	45:GB:266:PHE:HB2	1.39	1.04
45:GL:117:LEU:HD13	45:GL:154:LYS:HD3	1.40	1.04
45:IF:172:SER:HB2	45:IF:174:LYS:HZ3	1.21	1.04
44:II:89:PRO:HD3	45:JJ:281:TYR:HD2	1.22	1.04
45:JL:286:VAL:HG21	45:JL:325:GLU:HB3	1.39	1.04
45:KD:54:ALA:HA	45:LD:283:ALA:HB2	1.37	1.04
44:KG:242:LEU:HD11	44:KG:252:ILE:HD11	1.33	1.04
45:LD:68:LEU:HD23	45:LD:97:ALA:HB2	1.38	1.04
44:MC:292:THR:HG21	44:MC:331:SER:HB3	1.38	1.04
45:ML:214:THR:HG23	45:ML:215:LEU:HD12	1.36	1.04
45:NF:136:THR:HG22	45:NF:167:PHE:HB2	1.38	1.04
44:OE:328:VAL:HG11	44:OE:353:VAL:HG21	1.32	1.04
45:OH:159:TYR:HB3	45:OH:162:ARG:HD3	1.37	1.04
45:QL:257:LEU:HA	45:QL:312:THR:HG21	1.39	1.04
44:TK:89:PRO:HB3	44:UK:280:LYS:HD2	1.38	1.04
45:UD:317:PHE:HA	45:UD:365:VAL:HG22	1.36	1.04
44:UG:70:LEU:HD21	44:UG:114:ILE:HG21	1.39	1.04
45:VN:286:VAL:CG2	45:VN:287:PRO:HD3	1.86	1.04
37:5B:102:TYR:CD2	44:KE:394:LYS:HE3	1.90	1.04
37:5D:56:ILE:HG13	45:KN:388:MET:HA	1.35	1.04
44:BE:68:LEU:HD11	44:BE:118:CYS:HB2	1.40	1.04
45:CJ:139:LEU:HA	45:CJ:145:SER:HB3	1.35	1.04
44:CM:317:MET:HB3	44:CM:353:VAL:HG12	1.39	1.04
45:DF:136:THR:HG22	45:DF:167:PHE:HB2	1.38	1.04
44:DM:217:LEU:HD22	44:DM:367:ASP:HB3	1.39	1.04
45:HJ:318:ARG:HD3	45:HJ:358:PRO:HG3	1.39	1.04
45:HN:49:VAL:HG21	45:HN:241:ARG:HG2	1.34	1.04
44:IK:271:SER:HA	44:IK:302:MET:HG2	1.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:66:VAL:HA	44:KE:92:LEU:CD1	1.87	1.04
44:KE:66:VAL:CA	44:KE:92:LEU:HD13	1.88	1.04
44:LA:242:LEU:HD11	44:LA:252:ILE:HD11	1.39	1.04
45:LH:267:MET:HB3	45:LH:299:MET:HE1	1.40	1.04
44:NC:398:MET:HE1	45:ND:345:ILE:HA	1.38	1.04
45:NH:207:LEU:HB3	45:NH:225:LEU:HD12	1.39	1.04
45:OJ:54:ALA:HA	45:PJ:283:ALA:HB2	1.38	1.04
45:RB:68:LEU:HD12	45:RB:93:GLY:HA3	1.39	1.04
44:RM:321:GLY:HA3	44:RM:373:ARG:HG2	1.39	1.04
44:TG:70:LEU:HD12	44:TG:145:THR:HG22	1.35	1.04
45:VF:135:ILE:HB	45:VF:166:THR:HG22	1.37	1.04
1:6H:382:PHE:CZ	44:FK:363:VAL:HG13	1.93	1.04
20:1J:80:LYS:HE2	44:IC:372:MET:HB3	1.40	1.04
20:1J:263:PHE:CZ	44:II:282:TYR:CG	2.44	1.04
44:AA:69:ASP:HB3	44:AA:75:ILE:HD11	1.40	1.04
44:EE:278:ALA:HA	44:EE:369:ALA:HB2	1.38	1.04
44:EG:157:LEU:HD22	44:EG:166:LYS:HD3	1.35	1.04
44:EG:288:VAL:HA	44:EG:291:ILE:HG12	1.33	1.04
45:ID:316:LEU:HA	45:ID:352:SER:HB2	1.33	1.04
45:KB:99:ASN:HA	45:KB:142:GLY:HA3	1.39	1.04
45:KN:395:LEU:HD11	45:KN:399:THR:HG23	1.04	1.04
45:LH:91:VAL:HG21	45:LH:116:VAL:HG22	1.39	1.04
44:NE:254:GLU:HG3	45:NH:98:GLY:HA2	1.33	1.04
45:NJ:60:VAL:HG21	45:NJ:86:ARG:HG3	1.39	1.04
44:NK:288:VAL:HA	44:NK:291:ILE:HG12	1.38	1.04
44:QA:75:ILE:HG13	44:QA:94:SER:HB2	1.33	1.04
45:RB:211:CYS:HA	45:RB:215:LEU:HD12	1.35	1.04
44:TK:70:LEU:HD12	44:TK:145:THR:HG22	1.35	1.04
45:TL:335:ASN:HA	45:TL:338:SER:HB3	1.35	1.04
45:UJ:54:ALA:HA	45:VJ:283:ALA:HB2	1.39	1.04
44:VA:135:PHE:HB2	44:VA:166:LYS:HG2	1.34	1.04
45:VF:342:VAL:HG23	45:VF:348:ASN:HB3	1.34	1.04
7:0F:36:LYS:HD2	44:DE:72:PRO:HB3	1.39	1.04
24:1O:275:LYS:HD3	44:UA:279:GLU:HG2	1.37	1.04
40:6F:17:PHE:HA	45:IF:53:GLU:HG3	1.39	1.04
35:6R:80:ARG:HH12	44:MM:38:SER:CA	1.70	1.04
45:EN:169:VAL:HG22	45:EN:202:ILE:HB	1.37	1.04
44:FK:68:LEU:HD11	44:FK:118:CYS:HB2	1.38	1.04
45:MF:330:MET:HE2	45:MF:349:ILE:HG21	1.38	1.04
44:NA:11:GLN:HG3	44:NA:74:VAL:HG11	1.37	1.04
44:NA:259:LEU:HD21	44:NA:316:SER:HB2	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:325:GLU:HA	45:NH:328:GLU:HG2	1.38	1.04
44:QE:89:PRO:HG3	44:RE:280:LYS:HG3	1.36	1.04
44:RG:11:GLN:HG3	44:RG:74:VAL:HG11	1.39	1.04
44:SI:203:MET:HG3	44:SI:384:ILE:HD11	1.36	1.04
44:VI:89:PRO:HG3	44:WI:280:LYS:HD2	1.39	1.04
45:VL:299:MET:HG3	45:VL:305:PRO:HG3	1.37	1.04
44:WG:66:VAL:HG11	44:WG:122:ILE:HD11	1.39	1.04
44:WM:212:ILE:HD13	44:WM:215:ARG:HH12	1.23	1.04
44:AK:11:GLN:HG3	44:AK:74:VAL:HG11	1.40	1.03
44:BA:221:ARG:NH2	45:BB:325:GLU:H	1.56	1.03
44:BA:326:LYS:HD3	45:BD:220:PRO:HD2	1.04	1.03
45:DD:178:THR:HB	45:DD:181:GLU:HG3	1.38	1.03
45:DH:218:THR:HG23	45:DH:219:THR:HG23	1.38	1.03
44:DK:175:PRO:HD2	44:DK:176:GLN:H	1.16	1.03
44:FG:89:PRO:HG3	44:GG:280:LYS:HD2	1.40	1.03
45:FH:86:ARG:HD2	45:GH:281:TYR:HB2	1.38	1.03
45:FL:286:VAL:HG11	45:FL:325:GLU:HG2	1.36	1.03
45:GJ:178:THR:HB	45:GJ:181:GLU:HG3	1.36	1.03
44:HC:109:THR:HG23	44:HC:110:ILE:HG23	1.39	1.03
45:NB:272:PRO:HD3	45:NB:364:ALA:HA	1.32	1.03
45:NL:259:PRO:HG2	45:NL:311:LEU:HD13	1.40	1.03
45:NL:325:GLU:HA	45:NL:328:GLU:HG2	1.39	1.03
44:PG:73:THR:HB	45:PH:247:ASN:HD22	1.22	1.03
44:SG:291:ILE:HD13	44:SG:373:ARG:HB3	1.41	1.03
45:TL:246:LEU:HA	44:TM:11:GLN:HE22	1.22	1.03
44:UG:185:TYR:HE2	44:UG:404:PHE:HB2	1.22	1.03
45:BN:325:GLU:HA	45:BN:328:GLU:HG2	1.39	1.03
45:DB:135:ILE:HG13	45:DB:152:ILE:HD11	1.38	1.03
44:DK:132:LEU:HD22	44:DK:164:LYS:HD2	1.37	1.03
44:DM:31:GLN:HE22	44:DM:33:ASP:HB2	1.21	1.03
45:EJ:248:SER:HA	45:EJ:252:LYS:HD2	1.39	1.03
45:HJ:285:THR:HG22	45:HJ:287:PRO:HD2	1.39	1.03
45:IF:135:ILE:HB	45:IF:166:THR:HG22	1.40	1.03
45:ML:68:LEU:HD21	45:ML:147:MET:HE1	1.40	1.03
45:QJ:168:SER:HB2	45:QJ:201:VAL:HA	1.38	1.03
44:QM:91:GLN:HA	44:QM:121:ARG:HH12	1.21	1.03
45:RL:25:SER:HA	45:RL:30:ILE:HD13	1.38	1.03
45:SH:257:LEU:HD11	45:SH:314:SER:HB2	1.40	1.03
45:SJ:139:LEU:HD22	45:SJ:170:VAL:HG12	1.40	1.03
1:6H:174:MET:HE1	45:FB:320:ARG:NH1	1.72	1.03
44:BM:179:THR:HG23	45:BN:351:SER:HB2	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:80:THR:HA	44:CC:84:ARG:HE	1.24	1.03
45:CN:211:CYS:HA	45:CN:215:LEU:HB2	1.36	1.03
44:FC:364:PRO:HB2	44:FC:365:GLY:CA	1.87	1.03
45:FJ:202:ILE:HG23	45:FJ:300:MET:HB3	1.37	1.03
44:IC:73:THR:HA	45:ID:46:ARG:HH21	1.15	1.03
45:JF:217:LEU:HG	45:JF:220:PRO:HD3	1.36	1.03
45:MH:135:ILE:HB	45:MH:166:THR:HG22	1.40	1.03
45:MH:318:ARG:HG2	45:MH:358:PRO:HD3	1.40	1.03
45:NB:211:CYS:HA	45:NB:215:LEU:HB2	1.41	1.03
44:NC:215:ARG:HH12	44:NC:299:ALA:HB1	1.24	1.03
44:OM:259:LEU:HD11	44:OM:316:SER:HB3	1.40	1.03
44:QE:167:LEU:HG	44:QE:200:VAL:HB	1.38	1.03
44:QI:11:GLN:HG3	44:QI:74:VAL:HG11	1.38	1.03
44:QK:7:ILE:HD12	44:QK:66:VAL:HG12	1.38	1.03
45:RF:380:ARG:HA	45:RF:383:GLU:HB3	1.41	1.03
44:RK:239:THR:HG22	44:RK:252:ILE:HD11	1.40	1.03
45:RN:25:SER:HA	45:RN:30:ILE:HD13	1.36	1.03
45:SH:303:ALA:H	45:SH:377:MET:HE1	1.20	1.03
45:UD:268:ILE:HG22	45:UD:368:VAL:HG12	1.34	1.03
45:UH:243:PRO:HA	44:UI:73:THR:HG21	1.38	1.03
45:VB:286:VAL:HG13	45:VB:287:PRO:CD	1.89	1.03
45:WJ:237:THR:HG23	45:WJ:241:ARG:HH21	1.22	1.03
44:DM:109:THR:HG23	44:DM:110:ILE:HG23	1.41	1.03
44:EC:254:GLU:HG2	45:ED:98:GLY:HA2	1.35	1.03
44:EI:391:LEU:HD13	44:EI:394:LYS:HD2	1.40	1.03
44:FC:363:VAL:HG13	44:FC:366:GLY:HA3	1.41	1.03
44:HM:239:THR:HA	44:HM:242:LEU:HD23	1.40	1.03
44:KG:239:THR:HG23	44:KG:242:LEU:HD12	1.38	1.03
45:KL:328:GLU:HG3	45:KL:329:GLN:HE21	1.22	1.03
44:LC:237:SER:HA	44:LC:320:ARG:HH22	1.23	1.03
44:OE:408:TYR:HB3	44:OE:413:MET:HG3	1.35	1.03
45:OH:178:THR:HB	45:OH:181:GLU:HG3	1.39	1.03
44:PG:136:LEU:HD23	44:PG:167:LEU:HD11	1.33	1.03
44:PM:188:ILE:HD12	44:PM:425:LEU:HD11	1.41	1.03
45:RB:318:ARG:HD3	45:RB:358:PRO:HD3	1.37	1.03
44:RE:75:ILE:HG13	44:RE:94:SER:HB2	1.39	1.03
44:SK:254:GLU:HG2	45:SL:98:GLY:HA2	1.37	1.03
44:TE:325:PRO:HB3	44:TE:355:ILE:HD11	1.36	1.03
45:TH:379:LYS:HD3	45:TH:419:VAL:HG11	1.40	1.03
45:VJ:5:VAL:HA	45:VJ:62:ARG:HH12	1.21	1.03
1:6H:212:GLY:HA3	45:FD:360:GLY:O	1.54	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:203:MET:HG3	44:DA:384:ILE:HD11	1.40	1.03
45:DB:317:PHE:HA	45:DB:365:VAL:HG22	1.37	1.03
45:DH:54:ALA:HA	45:EH:283:ALA:HB2	1.37	1.03
44:DI:11:GLN:HG3	44:DI:74:VAL:HG11	1.39	1.03
45:FN:289:LEU:HD22	45:FN:365:VAL:HG23	1.35	1.03
44:GG:372:MET:HG2	44:GG:373:ARG:HD2	1.41	1.03
45:GN:309:ARG:HG2	45:GN:340:TYR:HA	1.41	1.03
44:JI:292:THR:HG21	44:JI:331:SER:HB2	1.39	1.03
44:PI:89:PRO:HG3	44:QI:280:LYS:HG3	1.38	1.03
44:QA:422:ARG:HD2	44:QA:425:LEU:HD12	1.33	1.03
44:QE:12:GLY:HA2	44:QE:15:GLN:HB2	1.40	1.03
44:RC:11:GLN:HG3	44:RC:74:VAL:HG11	1.37	1.03
45:TB:246:LEU:HD13	45:TB:353:ILE:HD13	1.39	1.03
44:TI:243:ARG:HH12	44:TI:358:GLN:HG2	1.21	1.03
44:WM:294:SER:HA	44:WM:297:GLU:HG3	1.41	1.03
37:5B:102:TYR:CZ	44:KE:394:LYS:HE2	1.93	1.02
35:6R:401:VAL:HG22	45:EN:277:GLY:HA2	1.41	1.02
44:FA:254:GLU:HG2	45:FD:98:GLY:HA2	1.39	1.02
44:FM:72:PRO:HG3	44:FM:96:LYS:HA	1.35	1.02
44:FM:105:ARG:HA	44:FM:109:THR:HB	1.38	1.02
44:OM:9:VAL:HG22	44:OM:146:GLY:HA2	1.38	1.02
45:QB:232:ALA:HB2	45:QB:270:PHE:HB2	1.38	1.02
44:QK:141:VAL:HG22	44:QK:187:SER:HA	1.41	1.02
45:TF:97:ALA:HB3	45:TF:143:THR:HB	1.35	1.02
44:TI:414:GLU:HB2	44:TI:417:GLU:HG2	1.38	1.02
45:UB:178:THR:HB	45:UB:181:GLU:HG3	1.36	1.02
45:UF:351:SER:HB2	44:UG:179:THR:HG23	1.41	1.02
44:VG:204:LEU:HD23	44:VG:302:MET:HG2	1.40	1.02
45:VH:311:LEU:HD23	45:VH:342:VAL:HG11	1.40	1.02
45:WH:267:MET:HE1	45:WH:301:CYS:HB3	1.38	1.02
44:WM:175:PRO:HG3	44:WM:304:LYS:HD3	1.38	1.02
1:6H:286:GLU:CG	45:FH:227:HIS:CD2	2.43	1.02
37:5D:34:PHE:CD2	44:KK:431:ASP:CA	2.42	1.02
45:AB:7:ILE:HG12	45:AB:64:ILE:HB	1.39	1.02
46:BA:501:GTP:O1G	45:BB:252:LYS:NZ	1.92	1.02
44:EE:264:ARG:HH22	44:EE:428:LEU:HA	1.23	1.02
45:EF:178:THR:HB	45:EF:181:GLU:HG3	1.37	1.02
45:EJ:289:LEU:HD11	45:EJ:363:MET:HG2	1.42	1.02
45:FJ:257:LEU:HA	45:FJ:312:THR:HG21	1.39	1.02
45:GB:245:GLN:HB2	45:GB:353:ILE:HB	1.39	1.02
45:MB:237:THR:HG22	45:MB:250:LEU:HD21	1.36	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:318:ARG:HD2	45:NF:358:PRO:HG3	1.40	1.02
44:NI:329:ASN:HB3	45:NL:175:VAL:HG11	1.36	1.02
45:OF:217:LEU:HD11	45:OF:220:PRO:HB3	1.39	1.02
45:OF:286:VAL:HG21	45:OF:325:GLU:HB2	1.41	1.02
44:PE:254:GLU:HG2	45:PH:98:GLY:HA2	1.36	1.02
45:RN:91:VAL:HG21	45:RN:116:VAL:HG23	1.37	1.02
45:RN:119:VAL:HG22	45:RN:123:GLU:HG3	1.40	1.02
44:UC:362:VAL:HB	44:UC:370:LYS:HB3	1.38	1.02
1:6H:286:GLU:O	45:FH:224:ASP:OD1	1.75	1.02
25:1P:161:LEU:HD23	44:TI:372:MET:HG3	1.40	1.02
44:BA:135:PHE:HB2	44:BA:166:LYS:HG2	1.38	1.02
45:EN:113:ILE:HA	45:EN:116:VAL:HG12	1.39	1.02
45:FJ:178:THR:HB	45:FJ:181:GLU:HG3	1.38	1.02
45:GD:202:ILE:HD11	45:GD:268:ILE:HD11	1.41	1.02
44:GM:288:VAL:HA	44:GM:291:ILE:HG12	1.37	1.02
45:GN:318:ARG:HD3	45:GN:358:PRO:HD3	1.42	1.02
45:OD:178:THR:HB	45:OD:181:GLU:HG3	1.39	1.02
44:OK:122:ILE:HD13	44:OK:157:LEU:HD21	1.36	1.02
44:PA:316:SER:HB3	44:PA:378:ILE:HB	1.40	1.02
45:PB:135:ILE:HG13	45:PB:152:ILE:HD11	1.39	1.02
44:QC:254:GLU:HG2	45:QD:98:GLY:HA2	1.37	1.02
45:QF:113:ILE:HD13	45:QF:150:LEU:HD22	1.41	1.02
45:RN:293:MET:HE1	45:RN:365:VAL:HG21	1.41	1.02
45:SH:130:LEU:HD23	45:SH:162:ARG:HG3	1.41	1.02
45:UF:290:THR:HA	45:UF:293:MET:HE3	1.38	1.02
45:VH:278:SER:HA	45:VH:281:TYR:HD2	1.24	1.02
1:6H:217:GLN:CG	45:FD:320:ARG:HH12	1.71	1.02
5:2D:217:ALA:HB2	35:5R:431:ILE:HD11	1.40	1.02
45:BL:318:ARG:HH12	45:BL:358:PRO:HD3	1.22	1.02
45:CB:113:ILE:HD13	45:CB:150:LEU:HD22	1.36	1.02
44:GA:75:ILE:HG13	44:GA:94:SER:HB2	1.40	1.02
44:GC:203:MET:HG3	44:GC:384:ILE:HD11	1.38	1.02
45:GD:6:HIS:HE2	45:GD:8:GLN:HB3	1.20	1.02
44:HC:404:PHE:HE1	45:HD:259:PRO:HA	1.23	1.02
45:HD:178:THR:HB	45:HD:181:GLU:HG3	1.37	1.02
45:LN:97:ALA:HB2	45:LN:143:THR:HB	1.40	1.02
44:MA:188:ILE:HG23	44:MA:425:LEU:HD11	1.39	1.02
45:NL:7:ILE:HB	45:NL:135:ILE:HD12	1.41	1.02
44:OA:179:THR:HG23	45:OB:351:SER:HB2	1.41	1.02
44:OE:223:THR:HG22	45:OF:322:SER:HA	1.41	1.02
45:RB:257:LEU:HD11	45:RB:369:GLY:HA2	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:188:ILE:HD11	44:RM:391:LEU:HB3	1.42	1.02
44:SA:14:ILE:HD11	44:SA:69:ASP:HB2	1.41	1.02
44:TK:242:LEU:HD21	44:TK:251:ASP:HA	1.36	1.02
44:UE:14:ILE:HD11	44:UE:69:ASP:HB2	1.34	1.02
15:1V:51:LEU:HD22	44:LI:116:ASP:HB3	1.38	1.02
36:5S:189:VAL:HA	36:5S:192:MET:HE2	1.40	1.02
45:AB:318:ARG:HD2	45:AB:364:ALA:HB3	1.41	1.02
44:DG:326:LYS:HG2	45:DH:220:PRO:HD2	1.41	1.02
45:ED:7:ILE:HG12	45:ED:64:ILE:HB	1.40	1.02
45:FL:260:PHE:HB2	45:FL:263:LEU:HD13	1.41	1.02
45:GN:97:ALA:HB3	45:GN:143:THR:HB	1.42	1.02
44:JI:51:THR:HG21	44:JI:243:ARG:HB3	1.38	1.02
45:KB:200:MET:HE1	45:KB:266:PHE:HB2	1.41	1.02
44:PC:251:ASP:HB2	44:PC:254:GLU:HG3	1.42	1.02
44:SA:326:LYS:HE2	45:SB:219:THR:HA	1.41	1.02
44:TC:87:PHE:HB3	44:TC:92:LEU:HD11	1.41	1.02
44:TM:254:GLU:HG2	45:TN:98:GLY:HA2	1.42	1.02
45:UL:164:MET:HB3	45:UL:197:ASP:HB2	1.39	1.02
45:VF:267:MET:HE1	45:VF:299:MET:HB3	1.42	1.02
22:1L:871:ILE:HD11	45:CB:357:PRO:HG3	1.41	1.01
22:3L:42:LYS:HB3	45:BB:320:ARG:HH12	1.03	1.01
35:6R:66:THR:HG22	45:MN:39:ASP:CA	1.89	1.01
44:AA:398:MET:HE2	45:AB:345:ILE:HA	1.40	1.01
45:BF:99:ASN:HA	45:BF:142:GLY:HA3	1.42	1.01
45:EN:5:VAL:HG12	45:EN:62:ARG:HD3	1.42	1.01
45:GF:342:VAL:HG22	45:GF:348:ASN:HB2	1.40	1.01
45:IL:318:ARG:NH1	45:IL:356:ILE:O	1.93	1.01
44:JI:9:VAL:HG12	44:JI:68:LEU:HB2	1.38	1.01
44:LK:222:PRO:HG2	45:LL:324:LYS:HE3	1.39	1.01
45:LL:318:ARG:HD2	45:LL:358:PRO:HD3	1.42	1.01
44:NC:207:GLU:HB2	44:NC:304:LYS:HD2	1.41	1.01
44:NE:261:PRO:HD2	44:NE:262:TYR:H	1.19	1.01
44:PA:241:SER:HB2	44:PA:250:VAL:HB	1.41	1.01
44:PE:301:MET:HE1	44:PE:307:PRO:HD3	1.40	1.01
44:PM:200:VAL:HA	44:PM:266:HIS:HB2	1.42	1.01
44:QE:101:ASN:HA	44:QE:144:GLY:H	1.25	1.01
45:QJ:86:ARG:HG2	45:QJ:89:ASN:OD1	1.59	1.01
45:RB:6:HIS:HB2	45:RB:134:GLN:HE21	1.22	1.01
45:RJ:10:GLY:HA2	45:RJ:143:THR:HG23	1.40	1.01
44:RK:257:THR:HA	45:RL:397:TRP:CH2	1.94	1.01
45:RL:272:PRO:HD3	45:RL:364:ALA:HA	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:248:SER:HA	45:SB:252:LYS:HD2	1.42	1.01
45:SB:317:PHE:HA	45:SB:365:VAL:HG22	1.42	1.01
45:SL:322:SER:HB3	44:SM:221:ARG:HG2	1.42	1.01
45:UF:133:PHE:HB2	45:UF:164:MET:HG2	1.38	1.01
37:5D:34:PHE:CG	44:KK:431:ASP:N	2.28	1.01
35:6R:436:GLU:OE2	45:FN:280:GLN:HB2	1.58	1.01
44:BG:179:THR:HG23	45:BH:351:SER:HB2	1.36	1.01
45:BH:99:ASN:HA	45:BH:142:GLY:HA3	1.42	1.01
44:CG:2:ARG:HD3	44:CG:242:LEU:HD22	1.40	1.01
45:CJ:237:THR:HG22	45:CJ:250:LEU:HD21	1.42	1.01
44:EK:340:THR:HG23	44:EK:341:ILE:HD12	1.41	1.01
44:FA:248:LEU:HA	45:FD:11:GLN:HE22	1.20	1.01
45:FL:113:ILE:HD13	45:FL:150:LEU:HD22	1.42	1.01
45:GD:316:LEU:HB2	45:GD:366:THR:HB	1.36	1.01
44:GK:328:VAL:HG11	44:GK:353:VAL:HG21	1.42	1.01
44:HK:73:THR:HA	45:HL:46:ARG:HH22	1.24	1.01
44:IA:141:VAL:HG22	44:IA:187:SER:HA	1.41	1.01
44:IA:212:ILE:HD11	44:IA:300:ASN:HA	1.40	1.01
45:IF:7:ILE:HG22	45:IF:64:ILE:HB	1.42	1.01
45:JD:253:LEU:HB3	45:JD:257:LEU:HD12	1.40	1.01
45:KL:186:THR:HG23	45:KL:187:LEU:HD12	1.37	1.01
45:LN:216:LYS:HB2	45:LN:275:SER:HB2	1.39	1.01
45:OJ:319:GLY:HA2	45:OJ:357:PRO:HG3	1.37	1.01
45:OL:341:PHE:HB3	45:OL:348:ASN:HD21	1.25	1.01
45:ON:99:ASN:HA	45:ON:142:GLY:HA3	1.40	1.01
44:PA:271:SER:HA	44:PA:302:MET:HE1	1.42	1.01
44:QE:54:SER:HB3	44:QE:64:ARG:HH21	1.19	1.01
44:RC:276:ILE:HD11	44:RC:280:LYS:HG3	1.42	1.01
45:RH:345:ILE:HA	44:RI:398:MET:HE1	1.39	1.01
44:WA:188:ILE:HD12	44:WA:425:LEU:HD11	1.42	1.01
45:WB:178:THR:HB	45:WB:181:GLU:HG3	1.42	1.01
21:1K:215:VAL:HG21	44:GA:370:LYS:HE3	1.39	1.01
41:6G:201:MET:HE2	45:VF:336:LYS:HG3	1.40	1.01
45:DD:203:ASP:HB2	45:DD:301:CYS:HA	1.38	1.01
45:DH:321:MET:HG3	45:DH:323:THR:HG22	1.40	1.01
45:EF:345:ILE:HA	44:EG:398:MET:HE1	1.40	1.01
45:EH:311:LEU:HD12	45:EH:312:THR:HG22	1.42	1.01
45:FB:254:ALA:HB1	45:FB:258:ILE:HD13	1.43	1.01
44:II:328:VAL:HG11	44:II:353:VAL:HG21	1.43	1.01
44:LI:119:LEU:HD11	44:LI:156:ARG:HG2	1.43	1.01
44:LM:161:TYR:HB3	44:LM:164:LYS:HB2	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:68:LEU:HD21	44:NA:118:CYS:HB2	1.40	1.01
45:NJ:7:ILE:HG22	45:NJ:135:ILE:HG12	1.42	1.01
45:PB:25:SER:HB3	45:PB:30:ILE:HB	1.41	1.01
45:SH:178:THR:HB	45:SH:181:GLU:HG3	1.40	1.01
44:SM:315:CYS:N	44:SM:350:GLY:O	1.93	1.01
45:TH:260:PHE:HB2	45:TH:263:LEU:HD13	1.41	1.01
45:UD:200:MET:HG3	45:UD:267:MET:HA	1.41	1.01
45:VB:178:THR:HB	45:VB:181:GLU:HG3	1.39	1.01
44:VM:23:LEU:HD22	44:VM:229:ARG:HH12	1.24	1.01
26:2R:29:LYS:HD3	44:MG:47:ASP:HB2	1.37	1.01
35:6R:323:LEU:HD21	45:CN:276:ARG:CD	1.90	1.01
44:BK:254:GLU:HG2	45:BN:98:GLY:HA2	1.41	1.01
44:DG:372:MET:SD	44:DG:373:ARG:NH1	2.34	1.01
44:DK:179:THR:HG21	46:DK:501:GTP:H5'	1.42	1.01
44:FC:333:ALA:HB2	45:FF:174:LYS:HE2	1.41	1.01
44:FI:242:LEU:HD21	44:FI:251:ASP:HA	1.38	1.01
45:FJ:54:ALA:HA	45:GJ:283:ALA:HB2	1.40	1.01
45:FL:143:THR:HA	45:FL:147:MET:HE2	1.39	1.01
45:JB:317:PHE:HA	45:JB:365:VAL:HG22	1.42	1.01
44:KA:22:GLU:OE1	44:KA:83:TYR:OH	1.78	1.01
45:KF:311:LEU:HD23	45:KF:342:VAL:HG11	1.38	1.01
44:PI:284:GLU:HG3	44:PI:286:LEU:HD22	1.42	1.01
44:PI:288:VAL:HA	44:PI:291:ILE:HG12	1.41	1.01
45:PN:174:LYS:HD2	45:PN:175:VAL:HG13	1.43	1.01
45:SD:284:LEU:HD12	45:SD:362:LYS:HE2	1.39	1.01
44:SM:240:ALA:HB1	44:SM:356:ASN:HD22	1.25	1.01
44:TG:242:LEU:HD21	44:TG:252:ILE:HG13	1.41	1.01
45:UN:215:LEU:HD11	45:UN:228:LEU:HD11	1.38	1.01
44:VE:214:ARG:HG2	44:VE:215:ARG:HH12	1.21	1.01
20:1J:263:PHE:CD1	44:II:282:TYR:CG	2.48	1.01
35:6R:300:PHE:CE2	45:CN:77:ARG:HD3	1.96	1.01
44:AC:402:ARG:HG3	44:AC:405:VAL:HG11	1.42	1.01
44:BC:51:THR:HG21	44:BC:243:ARG:HD3	1.41	1.01
45:CF:299:MET:HG3	45:CF:305:PRO:HG3	1.36	1.01
44:DG:60:LYS:HZ1	44:DG:86:LEU:HA	1.22	1.01
44:EC:265:ILE:HG23	44:EC:384:ILE:HD11	1.40	1.01
45:ED:337:ASN:HB3	45:ED:340:TYR:HB2	1.40	1.01
45:EF:113:ILE:HD13	45:EF:150:LEU:HD22	1.39	1.01
45:EJ:200:MET:HG2	45:EJ:266:PHE:HB2	1.43	1.01
44:EM:278:ALA:HB2	44:EM:369:ALA:HB2	1.39	1.01
44:HG:200:VAL:HG13	44:HG:268:MET:HE1	1.43	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:91:GLN:HG2	44:HM:121:ARG:HD2	1.41	1.01
44:JI:326:LYS:HE3	45:JL:220:PRO:HB2	1.42	1.01
44:OA:223:THR:HG22	45:OB:322:SER:HA	1.37	1.01
44:QA:75:ILE:HD12	44:QA:92:LEU:HB3	1.40	1.01
45:QJ:257:LEU:HA	45:QJ:312:THR:HG21	1.41	1.01
45:RN:139:LEU:HD13	45:RN:168:SER:HB3	1.43	1.01
45:SD:173:PRO:HB2	45:SD:176:SER:HA	1.40	1.01
45:SL:3:GLU:HA	45:SL:49:VAL:HG13	1.39	1.01
45:SL:135:ILE:HG21	45:SL:152:ILE:HD11	1.39	1.01
45:UD:89:ASN:HA	45:UD:119:VAL:HG11	1.40	1.01
45:UF:289:LEU:HD11	45:UF:363:MET:HB3	1.42	1.01
22:2L:525:LEU:HD13	45:BN:320:ARG:HG2	1.06	1.00
34:4F:204:PRO:CG	44:IM:280:LYS:HE3	1.91	1.00
35:6R:323:LEU:HD22	45:CN:276:ARG:CZ	1.89	1.00
44:BI:288:VAL:HG23	44:BI:291:ILE:HD11	1.42	1.00
45:CL:248:SER:HA	45:CL:252:LYS:HD2	1.38	1.00
45:CN:257:LEU:HA	45:CN:312:THR:HG21	1.41	1.00
45:JD:299:MET:HE3	45:JD:305:PRO:HG2	1.43	1.00
44:KI:320:ARG:HD3	44:KI:360:PRO:HD3	1.44	1.00
45:KN:149:THR:HG21	45:KN:188:SER:HB2	1.39	1.00
45:LF:113:ILE:HD13	45:LF:150:LEU:HD22	1.41	1.00
45:LF:218:THR:HG23	45:LF:219:THR:HG23	1.36	1.00
45:LJ:135:ILE:HB	45:LJ:166:THR:HG22	1.43	1.00
45:ND:149:THR:HB	45:ND:191:GLN:HG2	1.42	1.00
44:OI:271:SER:HB2	44:OI:301:MET:HA	1.40	1.00
44:SC:188:ILE:HD12	44:SC:425:LEU:HD11	1.40	1.00
45:SF:269:GLY:HA2	45:SF:300:MET:HG2	1.42	1.00
45:SL:55:THR:HG23	45:TL:283:ALA:HA	1.44	1.00
45:TF:5:VAL:HG12	45:TF:62:ARG:HD3	1.38	1.00
45:WB:86:ARG:HE	45:WB:87:PRO:HD2	1.20	1.00
37:5D:110:ARG:O	44:NM:282:TYR:N	1.90	1.00
35:6R:90:ARG:NH1	44:AM:42:ILE:CD1	2.24	1.00
45:CB:12:CYS:HB3	48:CB:501:GDP:H5''	1.43	1.00
45:DN:42:LEU:HA	45:DN:45:GLU:HG3	1.40	1.00
45:EH:64:ILE:HA	45:EH:89:ASN:HD21	1.23	1.00
45:FB:286:VAL:HG11	45:FB:325:GLU:HG2	1.42	1.00
44:FK:102:ASN:HD21	44:FK:411:GLU:HG3	1.25	1.00
45:IN:267:MET:HE3	45:IN:301:CYS:HB2	1.42	1.00
45:JB:200:MET:HG2	45:JB:266:PHE:HB2	1.38	1.00
45:KB:207:LEU:HD23	45:KB:210:ILE:HD12	1.41	1.00
45:MF:178:THR:HB	45:MF:181:GLU:HG3	1.39	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:130:LEU:HD22	45:NH:162:ARG:HG2	1.40	1.00
44:NI:11:GLN:HG3	44:NI:74:VAL:HG21	1.44	1.00
44:RE:332:ILE:HA	44:RE:335:ILE:HD13	1.41	1.00
45:RJ:237:THR:HG23	45:RJ:241:ARG:HH12	1.24	1.00
45:RN:286:VAL:HB	45:RN:287:PRO:HD3	1.43	1.00
45:SF:178:THR:HB	45:SF:181:GLU:HG3	1.37	1.00
45:TN:55:THR:HA	45:TN:87:PRO:HD2	1.43	1.00
45:UD:91:VAL:HG21	45:UD:116:VAL:HG23	1.43	1.00
45:UF:5:VAL:HG13	45:UF:130:LEU:HD11	1.41	1.00
45:UJ:68:LEU:HB2	45:UJ:147:MET:HE1	1.37	1.00
44:VE:141:VAL:HG22	44:VE:187:SER:HA	1.43	1.00
45:WH:386:THR:HG23	45:WH:389:PHE:HB3	1.39	1.00
1:6H:217:GLN:HG3	45:FD:320:ARG:HH12	0.84	1.00
26:1R:93:VAL:HG22	44:AC:370:LYS:HZ1	1.25	1.00
24:2O:318:LEU:HD22	44:VE:26:LEU:HD21	1.44	1.00
31:4H:170:ILE:HG12	35:5R:84:PRO:HG2	1.43	1.00
39:5K:48:LEU:HD21	44:JK:430:LYS:HD2	1.43	1.00
36:5S:131:GLY:HA3	36:5S:135:ILE:HD11	1.43	1.00
44:AK:51:THR:HG21	44:AK:243:ARG:HG2	1.42	1.00
44:BA:221:ARG:HH12	45:BB:325:GLU:HB3	1.24	1.00
45:DF:178:THR:HB	45:DF:181:GLU:HG3	1.41	1.00
45:FF:99:ASN:HA	45:FF:142:GLY:HA3	1.38	1.00
45:FH:325:GLU:HB3	45:FH:327:ASP:H	1.24	1.00
45:GN:316:LEU:HB2	45:GN:366:THR:HB	1.42	1.00
44:HC:328:VAL:HG11	44:HC:353:VAL:HG21	1.40	1.00
44:IE:66:VAL:HG11	44:IE:122:ILE:HD11	1.44	1.00
45:MH:97:ALA:HB3	45:MH:143:THR:HB	1.39	1.00
45:NL:11:GLN:HA	45:NL:14:ASN:HB2	1.41	1.00
45:OJ:135:ILE:HG13	45:OJ:152:ILE:HD11	1.44	1.00
45:ON:362:LYS:HD2	45:ON:363:MET:HE2	1.41	1.00
45:PF:341:PHE:HB3	45:PF:348:ASN:HD21	1.23	1.00
44:QC:288:VAL:HA	44:QC:291:ILE:HG12	1.42	1.00
45:QF:318:ARG:HB2	45:QF:364:ALA:HB3	1.44	1.00
34:4F:5:VAL:HG23	44:GI:84:ARG:HH22	1.26	1.00
35:6R:25:HIS:O	44:LK:244:PHE:HD1	1.39	1.00
45:HH:42:LEU:HA	45:HH:45:GLU:HG3	1.41	1.00
44:IA:221:ARG:HD2	45:IB:322:SER:HB2	1.44	1.00
44:MI:326:LYS:HE3	44:MI:326:LYS:HA	1.43	1.00
44:MK:248:LEU:HB3	44:MK:355:ILE:HG12	1.43	1.00
44:NK:56:THR:H	44:NK:57:GLY:HA2	1.22	1.00
44:QE:51:THR:HB	44:QE:243:ARG:HD3	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:257:LEU:HD11	45:TN:314:SER:HB2	1.44	1.00
37:5D:20:LEU:N	45:KN:415:MET:O	1.95	1.00
44:DI:11:GLN:HA	44:DI:14:ILE:HD12	1.41	1.00
44:EI:295:ALA:HB1	44:EI:377:MET:HE1	1.43	1.00
44:FC:364:PRO:HB2	44:FC:365:GLY:HA3	1.02	1.00
44:FE:288:VAL:HG23	44:FE:291:ILE:HD11	1.40	1.00
44:QK:84:ARG:HG3	44:QK:85:GLN:HE21	1.25	1.00
44:RM:317:MET:HA	44:RM:377:MET:HA	1.41	1.00
45:TF:173:PRO:HG2	45:TF:380:ARG:HH11	1.26	1.00
45:UF:174:LYS:HD2	45:UF:175:VAL:HG13	1.43	1.00
11:6Q:179:PRO:HA	11:6Q:182:LYS:HE2	1.43	1.00
45:CD:207:LEU:HD13	45:CD:225:LEU:HB3	1.43	1.00
45:EB:97:ALA:HB3	45:EB:143:THR:HG22	1.44	1.00
45:HN:139:LEU:HA	45:HN:145:SER:HB3	1.43	1.00
44:ME:393:HIS:HB3	44:ME:425:LEU:HD11	1.43	1.00
45:NB:260:PHE:HB2	45:NB:263:LEU:HD13	1.43	1.00
44:QC:242:LEU:HD11	44:QC:252:ILE:HG13	1.41	1.00
45:RL:136:THR:HA	45:RL:167:PHE:HB2	1.42	1.00
35:5R:129:VAL:HG21	35:5R:145:ILE:HD12	1.40	1.00
45:BN:248:SER:HA	45:BN:252:LYS:HE2	1.44	1.00
44:CA:435:VAL:HA	45:CB:391:ARG:HH22	1.27	1.00
44:DM:115:VAL:HG21	44:DM:152:LEU:HD23	1.41	1.00
44:EE:37:PRO:HG2	44:EE:40:LYS:H	1.27	1.00
45:HL:186:THR:HG21	45:HL:385:PHE:HB2	1.41	1.00
44:IM:7:ILE:HB	44:IM:137:VAL:HG22	1.43	1.00
44:LK:437:ILE:O	45:LN:391:ARG:NH2	1.94	1.00
45:SF:309:ARG:HG2	45:SF:340:TYR:HA	1.40	1.00
45:SL:178:THR:HB	45:SL:181:GLU:HG3	1.44	1.00
35:5R:453:ILE:HD13	35:5R:498:LEU:HD13	1.36	0.99
35:7R:119:TYR:HB2	35:7R:128:HIS:HB3	1.40	0.99
44:AC:283:HIS:HD1	44:MC:88:HIS:HA	1.26	0.99
44:CC:11:GLN:HA	44:CC:14:ILE:HB	1.39	0.99
44:JA:276:ILE:HD11	44:JA:280:LYS:HE2	1.43	0.99
45:JD:7:ILE:HB	45:JD:135:ILE:HD12	1.44	0.99
44:NC:188:ILE:HG23	44:NC:425:LEU:HD12	1.43	0.99
45:PF:20:PHE:CZ	45:PF:24:ILE:C	2.35	0.99
44:PI:259:LEU:HD21	44:PI:316:SER:HB3	1.43	0.99
44:RE:254:GLU:HG2	45:RF:98:GLY:HA2	1.40	0.99
44:RE:256:GLN:HB3	45:RF:397:TRP:HH2	1.27	0.99
44:SA:5:ILE:HG12	44:SA:64:ARG:HB3	1.44	0.99
44:VE:11:GLN:HG3	44:VE:74:VAL:HG21	1.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5C:46:ILE:HD11	44:KG:434:GLU:HG3	1.40	0.99
44:EC:213:CYS:O	44:EC:217:LEU:HB2	1.60	0.99
45:FD:318:ARG:HA	45:FD:354:CYS:HB3	1.44	0.99
45:KH:5:VAL:HG23	45:KH:62:ARG:HG2	1.43	0.99
45:PF:20:PHE:CE2	45:PF:24:ILE:C	2.36	0.99
44:SA:14:ILE:HD13	44:SA:75:ILE:HD11	1.44	0.99
44:SK:169:PHE:HA	44:SK:202:VAL:HB	1.41	0.99
45:WL:268:ILE:HG13	45:WL:300:MET:HG3	1.44	0.99
35:5R:129:VAL:HB	35:5R:145:ILE:HB	1.44	0.99
45:IH:286:VAL:HG11	45:IH:325:GLU:HG2	1.43	0.99
45:JJ:174:LYS:HD2	45:JJ:175:VAL:HG13	1.42	0.99
45:MJ:302:ALA:HB3	45:MJ:377:MET:HE1	1.44	0.99
44:MK:269:LEU:HD11	44:MK:384:ILE:HD13	1.42	0.99
45:NF:52:ASN:OD1	45:NF:62:ARG:NH2	1.95	0.99
44:OK:9:VAL:HG23	44:OK:139:ASN:HB3	1.41	0.99
44:OM:102:ASN:HD21	44:OM:105:ARG:HD3	1.28	0.99
44:TE:12:GLY:HA3	44:TE:140:SER:HB3	1.43	0.99
45:UF:248:SER:HA	45:UF:252:LYS:HD2	1.43	0.99
45:WB:184:ASN:HA	45:WB:187:LEU:HB2	1.44	0.99
44:WC:269:LEU:HD22	44:WC:384:ILE:HD11	1.43	0.99
5:0D:187:PHE:HB2	45:FB:322:SER:HB3	1.43	0.99
2:1A:36:ARG:HD3	45:MF:42:LEU:HD21	1.45	0.99
35:6R:38:HIS:HB3	45:LN:92:PHE:CZ	1.97	0.99
45:BH:173:PRO:HD3	45:BH:380:ARG:HD3	1.44	0.99
44:BK:292:THR:HG21	44:BK:331:SER:HB3	1.44	0.99
45:EN:117:LEU:HA	45:EN:120:VAL:HB	1.42	0.99
45:FN:52:ASN:HD22	45:FN:60:VAL:HG13	1.24	0.99
45:LD:49:VAL:HG21	45:LD:241:ARG:HG2	1.41	0.99
44:NC:71:GLU:HG3	44:NC:98:ASP:HB2	1.43	0.99
44:NK:209:ILE:HG22	44:NK:227:LEU:HD22	1.44	0.99
44:PM:194:LEU:HA	44:PM:197:HIS:HB2	1.41	0.99
44:QI:141:VAL:HG22	44:QI:187:SER:HA	1.43	0.99
44:RM:318:MET:N	44:RM:376:CYS:O	1.96	0.99
45:UD:139:LEU:HD22	45:UD:170:VAL:HG12	1.42	0.99
44:BA:222:PRO:CD	45:BB:324:LYS:HD3	1.92	0.99
44:DM:132:LEU:HD22	44:DM:164:LYS:HD2	1.45	0.99
44:EA:36:MET:HG3	44:EA:37:PRO:HD3	1.45	0.99
45:GF:342:VAL:HG13	45:GF:345:ILE:HG21	1.43	0.99
45:ON:289:LEU:HD11	45:ON:363:MET:HB3	1.41	0.99
44:SM:31:GLN:HE22	44:SM:33:ASP:HB2	1.27	0.99
45:UB:245:GLN:HB2	45:UB:353:ILE:HD11	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:248:SER:HA	45:UD:252:LYS:HD2	1.43	0.99
22:1L:752:LEU:HD22	45:BD:320:ARG:HB2	1.43	0.99
32:2I:95:LYS:HB3	45:GF:332:ASN:HD21	1.28	0.99
36:5S:111:GLU:HG2	36:5S:116:TYR:HB2	1.45	0.99
45:BD:318:ARG:HH12	45:BD:358:PRO:HG3	1.27	0.99
45:BH:178:THR:HB	45:BH:181:GLU:HG3	1.44	0.99
45:FJ:16:ILE:HD11	45:FJ:229:VAL:HG11	1.45	0.99
44:JM:276:ILE:HD11	44:JM:280:LYS:HD2	1.43	0.99
44:JM:317:MET:HE3	44:JM:377:MET:HG2	1.41	0.99
44:LM:68:LEU:HD21	44:LM:118:CYS:HB2	1.45	0.99
45:PD:131:GLN:HG2	45:PD:250:LEU:HD12	1.43	0.99
44:QE:268:MET:HB3	44:QE:380:ASN:HB2	1.44	0.99
45:QF:135:ILE:HG13	45:QF:152:ILE:HD11	1.42	0.99
45:SL:272:PRO:HG3	45:SL:289:LEU:HD21	1.43	0.99
44:UA:3:GLU:HA	44:UA:51:THR:HA	1.45	0.99
11:6Q:34:ILE:HG12	11:6Q:49:ILE:HD12	1.42	0.99
35:6R:249:LEU:HD12	44:CM:370:LYS:NZ	1.75	0.99
35:6R:391:PHE:CE1	45:EN:228:LEU:CD2	2.46	0.99
44:BK:348:PRO:HD2	45:BN:388:MET:HE2	1.41	0.99
44:CC:68:LEU:HD21	44:CC:118:CYS:HB2	1.41	0.99
44:EA:307:PRO:HA	44:EA:383:ALA:HB3	1.44	0.99
44:GG:237:SER:HA	44:GG:320:ARG:HH21	1.26	0.99
44:GK:317:MET:HE2	44:GK:375:VAL:HG21	1.43	0.99
45:KN:289:LEU:HD11	45:KN:363:MET:HB3	1.44	0.99
45:LB:132:GLY:HA3	45:LB:163:ILE:HG22	1.45	0.99
45:LN:130:LEU:HD23	45:LN:162:ARG:HE	1.26	0.99
45:MF:101:TRP:HZ3	45:MF:187:LEU:HB3	1.27	0.99
45:NH:61:PRO:HG2	45:NH:84:LEU:HB3	1.44	0.99
44:OM:242:LEU:HD11	44:OM:252:ILE:HG23	1.44	0.99
45:SN:169:VAL:HG22	45:SN:202:ILE:HB	1.41	0.99
45:UF:324:LYS:HG3	44:UG:222:PRO:HG2	1.41	0.99
44:VA:288:VAL:HG21	44:VA:327:ASP:HB3	1.41	0.99
37:5D:106:SER:HB3	44:NM:280:LYS:HB2	1.01	0.99
35:6R:94:ARG:HH21	44:AM:41:THR:CG2	1.71	0.99
45:CB:25:SER:HB3	45:CB:30:ILE:HB	1.45	0.99
44:DM:68:LEU:HD22	44:DM:153:LEU:HD11	1.44	0.99
44:EC:212:ILE:HD11	44:EC:300:ASN:HA	1.44	0.99
45:OB:11:GLN:HA	45:OB:72:THR:HG21	1.43	0.99
44:PI:2:ARG:HH21	44:PI:243:ARG:HA	1.24	0.99
45:PL:136:THR:HG22	45:PL:167:PHE:HB2	1.44	0.99
45:RH:42:LEU:HA	45:RH:45:GLU:HG3	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1D:40:GLY:O	44:DG:79:ARG:NH1	1.96	0.99
20:1J:263:PHE:CG	44:II:282:TYR:CG	2.50	0.99
37:5C:102:TYR:CZ	44:KI:394:LYS:HE2	1.94	0.99
44:BG:64:ARG:NH1	44:BG:129:CYS:SG	2.36	0.99
45:DB:86:ARG:HH21	45:DB:87:PRO:HG2	1.23	0.99
45:GH:322:SER:HB2	45:GH:324:LYS:H	1.25	0.99
45:GL:178:THR:HB	45:GL:181:GLU:HG3	1.42	0.99
44:JM:248:LEU:HB2	44:JM:355:ILE:HG12	1.42	0.99
45:MB:135:ILE:HG21	45:MB:152:ILE:HD11	1.44	0.99
45:NF:7:ILE:HG22	45:NF:135:ILE:HG12	1.41	0.99
45:QB:260:PHE:HB2	45:QB:263:LEU:HD13	1.45	0.99
44:QM:137:VAL:HG11	44:QM:154:LEU:HD21	1.45	0.99
45:RH:255:VAL:HA	44:RI:407:TRP:HZ3	1.25	0.99
44:SA:254:GLU:HG2	45:SB:98:GLY:HA2	1.45	0.99
44:SK:91:GLN:HG2	44:SK:121:ARG:HD2	1.43	0.99
45:SL:49:VAL:HG11	45:SL:240:LEU:HD21	1.42	0.99
45:UJ:372:THR:HA	45:UJ:422:TYR:HE2	1.20	0.99
45:VJ:380:ARG:HA	45:VJ:383:GLU:HB3	1.45	0.99
13:1T:147:PHE:HB3	45:MF:402:GLY:HA3	1.39	0.99
37:5D:56:ILE:HD11	45:KN:390:ARG:HB3	1.44	0.99
44:AA:108:TYR:HA	44:AA:112:LYS:HE3	1.45	0.99
45:AB:248:SER:HA	45:AB:252:LYS:HD2	1.44	0.99
44:KM:7:ILE:HB	44:KM:137:VAL:HG12	1.41	0.99
44:MA:275:ILE:HG13	44:MA:368:LEU:HD11	1.45	0.99
44:OI:217:LEU:HD21	44:OI:275:ILE:HG22	1.43	0.99
45:TF:314:SER:HB2	45:TF:350:LYS:HB3	1.42	0.99
45:UJ:169:VAL:HG22	45:UJ:202:ILE:HB	1.44	0.99
44:CA:11:GLN:HG3	44:CA:74:VAL:HG11	1.45	0.98
45:EN:43:GLN:O	45:EN:241:ARG:NH2	1.96	0.98
45:FD:248:SER:HA	45:FD:252:LYS:HD2	1.45	0.98
45:IB:3:GLU:HA	45:IB:49:VAL:HG13	1.41	0.98
46:WM:501:GTP:H5''	45:WN:246:LEU:HD23	1.45	0.98
35:6R:446:PHE:HE1	35:6R:487:GLU:CG	1.76	0.98
45:DJ:100:ASN:HD22	45:DJ:103:LYS:HG3	1.24	0.98
45:HJ:42:LEU:HA	45:HJ:45:GLU:HG3	1.45	0.98
45:IN:269:GLY:HA2	45:IN:300:MET:HE1	1.45	0.98
44:MM:11:GLN:HG3	44:MM:74:VAL:HG11	1.44	0.98
45:PB:51:TYR:HB3	45:PB:59:TYR:HB3	1.42	0.98
44:PG:11:GLN:HA	44:PG:14:ILE:HD12	1.45	0.98
45:QJ:135:ILE:HB	45:QJ:166:THR:HG22	1.44	0.98
45:QN:299:MET:HG3	45:QN:305:PRO:HG3	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:178:THR:HB	45:RF:181:GLU:HG3	1.45	0.98
44:TI:206:ASN:HA	44:TI:209:ILE:HD12	1.44	0.98
45:UB:248:SER:HA	45:UB:252:LYS:HD2	1.45	0.98
45:UF:217:LEU:HD11	45:UF:220:PRO:HG3	1.42	0.98
31:3H:203:LYS:HE3	44:AG:225:THR:HB	1.44	0.98
44:AI:254:GLU:HG2	45:AL:98:GLY:HA2	1.45	0.98
45:CB:318:ARG:HB3	45:CB:364:ALA:HB3	1.44	0.98
45:DN:60:VAL:HG21	45:DN:86:ARG:HB2	1.45	0.98
45:EH:255:VAL:HA	44:EI:407:TRP:HZ3	1.27	0.98
45:EH:314:SER:HB2	45:EH:350:LYS:HB3	1.43	0.98
44:FK:221:ARG:HH22	45:FL:326:VAL:HG23	1.24	0.98
45:JN:49:VAL:HG11	45:JN:241:ARG:HG2	1.40	0.98
44:LE:317:MET:HE3	44:LE:377:MET:HG3	1.43	0.98
45:LL:97:ALA:HB3	45:LL:143:THR:HB	1.46	0.98
45:OF:178:THR:HB	45:OF:181:GLU:HG3	1.46	0.98
45:QN:173:PRO:HG2	45:QN:380:ARG:HD3	1.46	0.98
44:RA:11:GLN:HG3	44:RA:74:VAL:HG11	1.39	0.98
44:RI:56:THR:HG23	44:RI:58:ALA:H	1.23	0.98
44:TC:12:GLY:HA3	44:TC:140:SER:HB3	1.42	0.98
45:UB:173:PRO:HG2	45:UB:380:ARG:HD3	1.43	0.98
44:EM:51:THR:HG21	44:EM:243:ARG:HD3	1.44	0.98
45:FF:317:PHE:HA	45:FF:365:VAL:HG12	1.43	0.98
44:KA:105:ARG:HA	44:KA:109:THR:HB	1.44	0.98
44:LK:60:LYS:NZ	44:MK:283:HIS:ND1	2.11	0.98
45:OF:217:LEU:HG	45:OF:220:PRO:HD3	1.43	0.98
44:PI:9:VAL:HG21	44:PI:149:LEU:HB2	1.45	0.98
45:PL:178:THR:HB	45:PL:181:GLU:HG3	1.44	0.98
44:TC:318:MET:HA	44:TC:354:GLY:HA3	1.45	0.98
45:TD:86:ARG:HE	45:TD:87:PRO:HD2	1.29	0.98
45:TF:341:PHE:HB3	45:TF:348:ASN:HD21	1.29	0.98
45:UJ:313:ALA:HB3	45:UJ:349:ILE:HG12	1.45	0.98
45:UL:102:ALA:HB1	45:UL:401:GLU:HB2	1.45	0.98
37:5D:108:ARG:HG3	44:NM:277:SER:O	1.61	0.98
45:DN:64:ILE:HG21	45:DN:119:VAL:HG11	1.42	0.98
45:ED:116:VAL:HA	45:ED:119:VAL:HG12	1.45	0.98
45:HB:217:LEU:HG	45:HB:220:PRO:HG3	1.46	0.98
45:IB:242:PHE:HB3	45:IB:356:ILE:HD13	1.45	0.98
44:IC:68:LEU:HD21	44:IC:118:CYS:HB2	1.46	0.98
44:IC:188:ILE:HD12	44:IC:425:LEU:HD11	1.44	0.98
45:JD:207:LEU:HB3	45:JD:225:LEU:HD22	1.43	0.98
44:KE:5:ILE:HD12	44:KE:125:LEU:HD21	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:5:VAL:HG12	45:PD:162:ARG:HG3	1.42	0.98
44:PE:325:PRO:HG3	44:PE:355:ILE:HD13	1.45	0.98
44:PI:209:ILE:HG12	44:PI:302:MET:HE3	1.43	0.98
45:SL:203:ASP:HB2	45:SL:301:CYS:HA	1.42	0.98
45:WD:113:ILE:HD13	45:WD:150:LEU:HD22	1.43	0.98
15:1V:146:PRO:CD	44:LK:414:GLU:OE1	2.11	0.98
32:3I:243:LYS:HD2	44:GI:299:ALA:HB1	1.43	0.98
11:5Q:29:ILE:HG13	11:5Q:34:ILE:HD11	1.42	0.98
35:7R:129:VAL:HB	35:7R:145:ILE:HB	1.42	0.98
45:CN:313:ALA:HA	45:CN:369:GLY:HA2	1.44	0.98
44:DG:14:ILE:HD13	44:DG:75:ILE:HD11	1.39	0.98
44:EC:188:ILE:HG23	44:EC:425:LEU:HD11	1.41	0.98
45:ED:17:GLY:HA2	45:ED:20:PHE:HB3	1.43	0.98
45:ED:139:LEU:HD22	45:ED:170:VAL:HG12	1.43	0.98
45:EJ:135:ILE:HB	45:EJ:166:THR:HG22	1.43	0.98
44:FK:254:GLU:HG2	45:FN:98:GLY:HA2	1.40	0.98
44:GM:216:ASN:HB3	44:GM:276:ILE:HA	1.42	0.98
45:LB:54:ALA:HA	45:MB:283:ALA:HB2	1.42	0.98
44:NC:259:LEU:HD11	44:NC:316:SER:HB2	1.43	0.98
44:NK:242:LEU:HD21	44:NK:252:ILE:HG13	1.45	0.98
44:NM:362:VAL:HG21	44:NM:369:ALA:HA	1.45	0.98
44:QC:31:GLN:HE22	44:QC:33:ASP:HB2	1.29	0.98
45:RJ:60:VAL:HG21	45:RJ:86:ARG:HG2	1.46	0.98
44:TE:414:GLU:HB2	44:TE:417:GLU:HG2	1.46	0.98
44:UC:23:LEU:O	44:UC:27:GLU:N	1.96	0.98
45:AL:16:ILE:HD11	45:AL:229:VAL:HG11	1.43	0.98
44:BA:222:PRO:HD2	45:BB:324:LYS:HD3	1.44	0.98
44:BE:108:TYR:HA	44:BE:112:LYS:HE3	1.45	0.98
44:GC:271:SER:HA	44:GC:302:MET:HB2	1.42	0.98
45:HF:73:MET:HE3	45:HF:92:PHE:HB3	1.42	0.98
44:KM:91:GLN:HG3	44:KM:121:ARG:HD2	1.44	0.98
44:LC:99:ALA:HB3	44:LC:145:THR:HB	1.46	0.98
45:QD:246:LEU:HD13	45:QD:353:ILE:HD13	1.45	0.98
44:RM:122:ILE:HD13	44:RM:125:LEU:HD12	1.44	0.98
45:SL:318:ARG:HG2	45:SL:354:CYS:HB3	1.45	0.98
45:TB:42:LEU:HA	45:TB:45:GLU:HG3	1.43	0.98
44:TE:276:ILE:HG12	44:TE:281:ALA:HA	1.43	0.98
45:UH:5:VAL:HA	45:UH:62:ARG:HG3	1.46	0.98
45:UJ:251:ARG:O	45:UJ:255:VAL:N	1.96	0.98
45:VL:215:LEU:HD11	45:VL:228:LEU:HD21	1.43	0.98
45:WL:183:TYR:HD2	45:WL:398:TYR:HH	1.09	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:217:LEU:HD22	44:WM:367:ASP:HB3	1.46	0.98
10:ON:249:LEU:HD11	45:KN:73:MET:HB2	1.46	0.98
44:EG:76:ASP:HA	44:EG:79:ARG:NH1	1.78	0.98
45:HN:317:PHE:HA	45:HN:365:VAL:HG12	1.43	0.98
44:NI:11:GLN:HE22	45:NJ:246:LEU:HA	1.26	0.98
44:RI:271:SER:OG	44:RI:301:MET:SD	2.22	0.98
44:WM:184:PRO:HA	44:WM:187:SER:HB2	1.46	0.98
34:4F:119:VAL:HG11	45:IL:359:LYS:HA	1.41	0.98
44:BA:326:LYS:NZ	45:BD:220:PRO:O	1.96	0.98
45:EF:207:LEU:HB3	45:EF:225:LEU:HD22	1.44	0.98
44:GA:101:ASN:HA	44:GA:144:GLY:HA3	1.44	0.98
44:GI:105:ARG:HH21	44:GI:110:ILE:HG21	1.25	0.98
44:JC:292:THR:HG21	44:JC:331:SER:HB2	1.45	0.98
45:JJ:178:THR:HB	45:JJ:181:GLU:HG3	1.46	0.98
45:PF:344:TRP:HB3	45:PF:430:ALA:HB2	1.45	0.98
45:QJ:72:THR:HG23	45:QJ:73:MET:HG2	1.44	0.98
45:VN:68:LEU:HD23	45:VN:97:ALA:HB2	1.44	0.98
1:6H:198:MET:HE3	44:FA:359:PRO:O	1.18	0.98
44:DI:14:ILE:HD11	44:DI:69:ASP:HB2	1.46	0.98
45:EL:135:ILE:HG13	45:EL:152:ILE:HD11	1.45	0.98
45:FN:46:ARG:HG3	45:FN:49:VAL:HG23	1.44	0.98
45:IN:301:CYS:HB3	45:IN:377:MET:HE1	1.44	0.98
45:ON:32:PRO:HB3	45:ON:81:PHE:HA	1.45	0.98
44:QE:288:VAL:HG11	44:QE:327:ASP:HB3	1.43	0.98
44:RG:269:LEU:HD13	44:RG:305:CYS:HB3	1.46	0.98
45:SN:257:LEU:HD11	45:SN:314:SER:HB2	1.42	0.98
45:SN:267:MET:HE3	45:SN:299:MET:HG2	1.44	0.98
45:TB:296:ALA:HA	45:TB:299:MET:HE2	1.42	0.98
44:TI:274:PRO:HG3	44:TI:286:LEU:HD21	1.43	0.98
45:UJ:323:THR:HG1	44:UK:224:TYR:HE1	1.11	0.98
45:WL:178:THR:HB	45:WL:181:GLU:HG3	1.44	0.98
45:GF:173:PRO:HG3	45:GF:380:ARG:HD3	1.45	0.97
44:JK:237:SER:HA	44:JK:320:ARG:HH12	1.27	0.97
45:KD:60:VAL:HG13	45:KD:86:ARG:HH11	1.28	0.97
44:LC:275:ILE:HD12	44:LC:368:LEU:HD11	1.44	0.97
44:QG:372:MET:SD	44:QG:373:ARG:NH1	2.36	0.97
45:RB:210:ILE:HD11	45:RB:273:LEU:HD13	1.45	0.97
45:UF:2:ARG:HG3	45:UF:240:LEU:HD11	1.42	0.97
44:WC:37:PRO:HB2	44:WC:40:LYS:HB2	1.46	0.97
45:WJ:145:SER:HB2	45:WJ:188:SER:HB3	1.44	0.97
38:5E:123:ARG:HG3	44:OA:370:LYS:HG2	1.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:376:GLU:HG2	45:DL:377:MET:HG3	1.46	0.97
45:ED:7:ILE:HD13	45:ED:120:VAL:HG22	1.46	0.97
45:GF:73:MET:HE1	45:GF:92:PHE:HB3	1.46	0.97
44:HI:141:VAL:HG11	44:HI:172:TYR:HD1	1.27	0.97
45:RH:11:GLN:HA	45:RH:14:ASN:HD22	1.29	0.97
45:TD:42:LEU:HA	45:TD:45:GLU:HG3	1.45	0.97
45:TJ:91:VAL:HG21	45:TJ:116:VAL:HA	1.46	0.97
45:UF:103:LYS:HA	45:UF:107:THR:HG22	1.46	0.97
44:UK:89:PRO:HG3	44:VI:280:LYS:HG2	1.45	0.97
44:UM:141:VAL:HG11	44:UM:172:TYR:HA	1.46	0.97
35:7R:103:VAL:HG21	35:7R:106:ASN:HD22	1.25	0.97
45:AF:218:THR:HG23	45:AF:219:THR:HG23	1.43	0.97
45:BH:200:MET:HE2	45:BH:268:ILE:HG21	1.45	0.97
44:CA:219:ILE:HG22	44:CA:222:PRO:HG3	1.45	0.97
45:GD:178:THR:HB	45:GD:181:GLU:HG3	1.44	0.97
44:GM:188:ILE:HD12	44:GM:425:LEU:HD11	1.46	0.97
44:HE:340:THR:HG23	44:HE:341:ILE:HD12	1.45	0.97
45:IJ:86:ARG:HD3	44:JG:284:GLU:HG2	1.43	0.97
45:KD:24:ILE:HD12	45:KD:241:ARG:HH12	1.29	0.97
44:NG:15:GLN:HA	44:NG:18:ASN:HD22	1.26	0.97
44:OM:10:GLY:HA2	44:OM:145:THR:HG23	1.46	0.97
44:PC:352:LYS:HB2	45:PF:179:VAL:HG13	1.46	0.97
44:RG:324:VAL:HG21	44:RG:326:LYS:HE3	1.44	0.97
45:RJ:124:ALA:HB1	45:RJ:130:LEU:HD22	1.44	0.97
44:TA:320:ARG:HE	44:TA:360:PRO:HG3	1.27	0.97
45:UN:207:LEU:HB3	45:UN:225:LEU:HD22	1.42	0.97
3:OB:71:ILE:HD11	45:JH:279:GLN:HG2	1.44	0.97
35:5R:256:LEU:HD22	35:5R:356:THR:HG23	1.46	0.97
35:5R:296:GLY:HA3	45:DJ:276:ARG:HB3	1.43	0.97
44:CM:70:LEU:HD13	44:CM:95:GLY:HA3	1.45	0.97
44:DM:185:TYR:HE2	44:DM:404:PHE:HB2	1.30	0.97
45:DN:413:SER:O	45:DN:417:ASP:N	1.97	0.97
44:FM:224:TYR:H	45:FN:323:THR:HG21	1.28	0.97
45:HN:86:ARG:HH11	45:IN:281:TYR:HB2	1.26	0.97
45:IH:101:TRP:CZ3	45:IH:187:LEU:HB3	1.99	0.97
45:IN:32:PRO:HG3	45:IN:81:PHE:HE1	1.29	0.97
44:JM:169:PHE:HA	44:JM:202:VAL:HG22	1.45	0.97
45:ML:174:LYS:HD2	45:ML:175:VAL:HG13	1.43	0.97
44:NI:320:ARG:HD2	44:NI:360:PRO:HG3	1.46	0.97
44:OA:398:MET:HE1	45:OB:345:ILE:HA	1.41	0.97
44:OK:238:LEU:HD11	44:OK:255:PHE:CE2	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:299:MET:HG3	45:PD:305:PRO:HG3	1.47	0.97
44:PG:6:SER:HA	44:PG:136:LEU:HB2	1.44	0.97
44:SK:284:GLU:HG3	44:SK:286:LEU:HD22	1.44	0.97
44:TI:241:SER:HB2	44:TI:250:VAL:H	1.27	0.97
45:UJ:5:VAL:HG12	45:UJ:62:ARG:HD3	1.45	0.97
44:VM:315:CYS:O	44:VM:352:LYS:N	1.95	0.97
45:WL:260:PHE:HB2	45:WL:263:LEU:HD13	1.41	0.97
27:1W:189:ARG:HH21	44:LA:41:THR:HB	1.29	0.97
35:5R:455:VAL:HB	35:5R:471:LEU:HB2	1.46	0.97
44:BA:9:VAL:HG22	44:BA:68:LEU:HB2	1.46	0.97
45:DN:268:ILE:HG22	45:DN:368:VAL:HA	1.43	0.97
45:EL:135:ILE:N	45:EL:165:GLU:O	1.96	0.97
44:FA:68:LEU:HD22	44:FA:153:LEU:HD11	1.46	0.97
44:FE:222:PRO:HD2	45:FF:324:LYS:HG3	1.45	0.97
44:GI:93:ILE:HD13	44:GI:117:LEU:HB3	1.45	0.97
45:NN:260:PHE:HB3	45:NN:261:PRO:HD3	1.45	0.97
44:OC:398:MET:HE1	45:OD:345:ILE:HA	1.45	0.97
45:SD:73:MET:HA	45:SD:76:VAL:HG22	1.45	0.97
45:SF:299:MET:HG3	45:SF:305:PRO:HG3	1.47	0.97
45:SH:1:MET:SD	45:SH:2:ARG:N	2.36	0.97
44:SK:288:VAL:HG21	44:SK:323:VAL:HG11	1.45	0.97
44:UC:259:LEU:HD21	44:UC:316:SER:HB2	1.45	0.97
45:UH:6:HIS:HB3	45:UH:63:ALA:HB2	1.46	0.97
45:WL:86:ARG:HE	45:WL:87:PRO:HD2	1.29	0.97
1:6H:295:GLN:CD	45:FH:362:LYS:HA	1.85	0.97
31:2H:196:SER:HA	45:AD:42:LEU:HD13	1.45	0.97
45:AD:7:ILE:HG23	45:AD:135:ILE:HD13	1.47	0.97
44:BM:21:TRP:HA	44:BM:24:PHE:HB2	1.44	0.97
45:CL:209:ASP:OD1	45:CL:213:ARG:NH2	1.97	0.97
45:DJ:378:PHE:HA	45:DJ:381:VAL:HG12	1.44	0.97
44:EC:349:THR:HG23	45:ED:179:VAL:HA	1.46	0.97
44:FE:70:LEU:HD11	44:FE:149:LEU:HD21	1.47	0.97
45:GL:290:THR:HG22	45:GL:293:MET:HE1	1.44	0.97
44:KK:175:PRO:HG3	44:KK:304:LYS:HG2	1.46	0.97
44:MA:223:THR:HG23	45:MB:323:THR:HG23	1.45	0.97
44:ME:326:LYS:HE2	45:MH:212:PHE:CE1	1.98	0.97
45:MF:237:THR:HG22	45:MF:250:LEU:HD21	1.43	0.97
45:ND:86:ARG:HE	45:ND:87:PRO:HD2	1.28	0.97
45:QJ:3:GLU:HG3	45:QJ:62:ARG:HH12	1.29	0.97
44:WE:14:ILE:HD11	44:WE:69:ASP:HB2	1.46	0.97
45:WJ:248:SER:HA	45:WJ:252:LYS:HD2	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1G:180:PRO:HB2	45:LD:174:LYS:HE2	1.45	0.97
34:4F:153:VAL:HB	45:IN:359:LYS:HE3	1.46	0.97
44:GK:221:ARG:HD2	45:GL:322:SER:HB3	1.44	0.97
44:IC:31:GLN:HG3	44:IC:37:PRO:HG3	1.46	0.97
44:IE:311:LYS:HD2	44:IE:342:GLN:HG3	1.47	0.97
45:JN:325:GLU:HA	45:JN:328:GLU:HG2	1.44	0.97
44:LM:175:PRO:HG2	44:LM:304:LYS:HE3	1.45	0.97
44:OK:288:VAL:HG11	44:OK:327:ASP:HB3	1.42	0.97
44:PC:229:ARG:O	44:PC:233:GLN:N	1.97	0.97
45:QN:60:VAL:HG21	45:QN:86:ARG:HD2	1.47	0.97
44:UE:69:ASP:OD1	44:UE:71:GLU:N	1.97	0.97
45:UF:97:ALA:HB3	45:UF:143:THR:HB	1.46	0.97
20:1J:263:PHE:CG	44:II:282:TYR:HA	2.00	0.97
37:5D:34:PHE:CG	44:KK:430:LYS:O	2.17	0.97
38:5E:173:LYS:HD3	45:KD:194:GLU:HG3	1.45	0.97
35:6R:26:HIS:HA	44:LK:244:PHE:CD1	1.99	0.97
44:BA:407:TRP:CZ3	45:BB:255:VAL:HG22	2.00	0.97
44:CE:254:GLU:HG2	45:CF:98:GLY:HA2	1.45	0.97
45:HH:293:MET:HE2	45:HH:367:PHE:HB2	1.44	0.97
45:NB:310:TYR:N	45:NB:340:TYR:O	1.97	0.97
45:QB:257:LEU:HD11	45:QB:314:SER:HB2	1.46	0.97
44:RI:8:HIS:HD2	44:RI:138:PHE:HB2	1.29	0.97
45:SF:86:ARG:HH21	45:SF:87:PRO:HG2	1.30	0.97
45:TL:268:ILE:HG22	45:TL:368:VAL:HG22	1.42	0.97
26:3R:252:LEU:HD22	44:CK:370:LYS:HE3	1.45	0.97
35:6R:231:TYR:CZ	45:CN:216:LYS:HB3	1.99	0.97
45:AL:213:ARG:HG2	45:AL:297:LYS:HD2	1.43	0.97
44:BA:314:ALA:HB3	44:BA:380:ASN:HB3	1.46	0.97
44:BA:326:LYS:HD3	45:BD:220:PRO:CD	1.94	0.97
44:FM:65:ALA:O	44:FM:91:GLN:NE2	1.98	0.97
45:FN:314:SER:HB3	45:FN:368:VAL:HB	1.45	0.97
44:IC:223:THR:HB	45:ID:322:SER:HB2	1.47	0.97
45:LH:25:SER:HB3	45:LH:30:ILE:HB	1.44	0.97
44:MM:56:THR:HG23	44:MM:58:ALA:H	1.27	0.97
45:MN:32:PRO:HG3	45:MN:81:PHE:HE1	1.27	0.97
44:NM:431:ASP:HA	44:NM:434:GLU:HG2	1.47	0.97
44:OK:398:MET:HE1	45:OL:345:ILE:HA	1.46	0.97
44:RC:271:SER:HA	44:RC:302:MET:HG2	1.47	0.97
45:UJ:133:PHE:HB2	45:UJ:164:MET:HE3	1.47	0.97
45:VF:342:VAL:HG22	45:VF:345:ILE:HG23	1.45	0.97
44:VI:88:HIS:HE1	44:VI:90:GLU:HG2	1.26	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:174:MET:HE1	45:FB:320:ARG:CZ	1.92	0.97
35:6R:249:LEU:CG	44:CM:370:LYS:HZ3	1.77	0.97
35:6R:470:PHE:HE2	45:EN:83:GLN:HG3	1.28	0.97
44:DK:320:ARG:HG3	44:DK:374:ALA:HB3	1.47	0.97
45:HH:341:PHE:HB3	45:HH:348:ASN:HD21	1.25	0.97
45:JJ:372:THR:HA	45:JJ:422:TYR:HE2	1.29	0.97
44:JM:154:LEU:HD13	44:JM:194:LEU:HD13	1.44	0.97
44:KC:284:GLU:HG3	44:KC:286:LEU:HD22	1.47	0.97
44:NC:54:SER:HB3	44:NC:64:ARG:HE	1.27	0.97
44:PM:226:ASN:HA	44:PM:229:ARG:HD2	1.46	0.97
45:QB:163:ILE:HG21	45:QB:251:ARG:HG2	1.47	0.97
45:RD:167:PHE:HA	45:RD:200:MET:HB3	1.47	0.97
45:SJ:175:VAL:HG21	45:SJ:204:ASN:HB2	1.47	0.97
16:0X:83:MET:SD	35:7R:47:GLU:HB2	2.05	0.96
31:4H:222:LYS:HB2	45:ML:45:GLU:HG2	1.44	0.96
45:FH:257:LEU:HD11	45:FH:314:SER:HB2	1.47	0.96
45:HJ:173:PRO:HG3	45:HJ:380:ARG:HD3	1.45	0.96
45:HN:186:THR:HG21	45:HN:385:PHE:HE1	1.26	0.96
45:ID:86:ARG:NH2	45:ID:88:ASP:HB3	1.79	0.96
45:IJ:330:MET:HB3	45:IJ:349:ILE:HD12	1.43	0.96
44:JM:67:PHE:HB2	44:JM:92:LEU:HG	1.47	0.96
45:OF:341:PHE:HB3	45:OF:348:ASN:HD21	1.28	0.96
45:PL:312:THR:HA	45:PL:348:ASN:HB2	1.46	0.96
44:QC:68:LEU:HG	44:QC:93:ILE:HB	1.47	0.96
44:UM:68:LEU:HD21	44:UM:118:CYS:HB2	1.44	0.96
44:WI:404:PHE:HE1	45:WJ:259:PRO:HA	1.28	0.96
44:WM:9:VAL:HG22	44:WM:146:GLY:HA2	1.43	0.96
44:WM:119:LEU:HB3	44:WM:123:ARG:HH12	1.28	0.96
20:1J:263:PHE:CD1	44:II:282:TYR:CD1	2.53	0.96
45:BF:372:THR:HA	45:BF:422:TYR:HE2	1.29	0.96
45:DB:371:SER:O	45:DB:422:TYR:OH	1.83	0.96
45:EB:113:ILE:O	45:EB:117:LEU:N	1.97	0.96
45:FB:73:MET:HE3	45:FB:92:PHE:HB3	1.47	0.96
45:FD:175:VAL:HG21	45:FD:204:ASN:HB2	1.44	0.96
44:HI:271:SER:HA	44:HI:302:MET:HB2	1.47	0.96
44:NK:404:PHE:HE1	45:NL:259:PRO:HA	1.29	0.96
44:NM:291:ILE:HD13	44:NM:373:ARG:HD2	1.45	0.96
45:OH:23:VAL:HG11	45:OH:230:SER:HB3	1.46	0.96
44:PC:141:VAL:HG22	44:PC:187:SER:HA	1.44	0.96
45:PD:317:PHE:HB2	45:PD:353:ILE:HG13	1.45	0.96
45:PH:286:VAL:HG11	45:PH:325:GLU:HG2	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:139:LEU:HA	45:QB:145:SER:HB3	1.45	0.96
45:QF:318:ARG:HH11	45:QF:358:PRO:HG3	1.28	0.96
45:TD:178:THR:HB	45:TD:181:GLU:HG3	1.42	0.96
44:TE:254:GLU:HG2	45:TF:98:GLY:HA2	1.45	0.96
45:VN:200:MET:HE1	45:VN:268:ILE:HG12	1.44	0.96
44:DM:217:LEU:HD21	44:DM:368:LEU:HD22	1.47	0.96
44:EK:14:ILE:HD11	44:EK:69:ASP:HB2	1.47	0.96
44:FA:385:ALA:O	44:FA:389:SER:N	1.99	0.96
44:HA:316:SER:HB2	44:HA:352:LYS:HE3	1.47	0.96
44:IA:13:GLY:O	44:IA:17:GLY:N	1.99	0.96
44:IM:14:ILE:HD11	44:IM:69:ASP:HB2	1.46	0.96
44:KI:237:SER:HA	44:KI:320:ARG:HH22	1.27	0.96
45:KN:395:LEU:HD11	45:KN:399:THR:CG2	1.94	0.96
45:MB:376:GLU:HG3	45:MB:380:ARG:HE	1.30	0.96
45:ND:214:THR:HG23	45:ND:215:LEU:HD12	1.47	0.96
45:QD:246:LEU:HD11	44:QE:224:TYR:HE2	1.26	0.96
44:QI:414:GLU:HB2	44:QI:417:GLU:HG2	1.44	0.96
45:RN:316:LEU:HB2	45:RN:366:THR:HB	1.46	0.96
44:TM:188:ILE:HD12	44:TM:425:LEU:HD11	1.44	0.96
8:OG:19:ILE:HD12	45:IL:48:ASN:HD22	1.30	0.96
14:OU:236:LEU:CD1	45:WB:33:THR:HG21	1.93	0.96
37:5B:127:GLU:HB3	45:NH:276:ARG:HH12	1.29	0.96
39:5J:95:LEU:HG	39:5J:98:LEU:HD12	1.46	0.96
45:DL:169:VAL:HG12	45:DL:202:ILE:HB	1.45	0.96
44:FC:363:VAL:HG22	44:FC:364:PRO:HD2	1.43	0.96
44:IM:188:ILE:HG23	44:IM:425:LEU:HD21	1.45	0.96
45:KF:267:MET:HE3	45:KF:299:MET:HE2	1.46	0.96
44:KI:89:PRO:HD3	44:LI:283:HIS:HD2	1.29	0.96
44:NC:347:CYS:HA	45:NF:388:MET:HE1	1.47	0.96
44:OG:171:ILE:HG12	44:OG:204:LEU:HB2	1.43	0.96
44:PC:254:GLU:HG2	45:PF:98:GLY:HA2	1.46	0.96
45:TL:245:GLN:HG2	45:TL:353:ILE:HG21	1.46	0.96
44:VA:213:CYS:HA	44:VA:217:LEU:HD12	1.47	0.96
21:2K:440:LYS:HE2	44:GE:278:ALA:HB3	1.45	0.96
35:6R:245:LEU:HD23	44:BM:58:ALA:CB	1.95	0.96
44:AG:311:LYS:HD2	44:AG:342:GLN:HE22	1.30	0.96
44:BC:326:LYS:HG2	45:BF:220:PRO:HD2	1.48	0.96
44:DA:75:ILE:HD11	44:DA:92:LEU:HB3	1.47	0.96
45:EN:379:LYS:O	45:EN:383:GLU:N	1.98	0.96
44:GK:422:ARG:HA	44:GK:425:LEU:HD12	1.47	0.96
44:IE:403:ALA:HA	45:IF:260:PHE:HE1	1.27	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:182:PRO:O	45:KN:183:TYR:N	1.99	0.96
45:KN:395:LEU:CD1	45:KN:399:THR:HG23	1.96	0.96
44:OC:288:VAL:HG22	44:OC:373:ARG:HD3	1.46	0.96
45:OJ:99:ASN:HA	45:OJ:142:GLY:HA3	1.48	0.96
44:UC:320:ARG:HG3	44:UC:360:PRO:HD3	1.47	0.96
45:UH:86:ARG:HD3	45:UH:87:PRO:HD2	1.44	0.96
44:UK:294:SER:HA	44:UK:297:GLU:HG3	1.43	0.96
11:3Q:37:ILE:HD11	36:5S:208:GLN:HB2	1.47	0.96
37:5D:106:SER:CB	44:NM:280:LYS:HB2	1.94	0.96
38:5G:198:PHE:N	44:LK:393:HIS:HE1	1.63	0.96
35:7R:497:GLN:HB2	35:7R:502:ARG:HG2	1.45	0.96
45:AN:313:ALA:HB3	45:AN:349:ILE:HG12	1.45	0.96
44:CA:105:ARG:HA	44:CA:109:THR:HB	1.43	0.96
45:DH:237:THR:HG23	45:DH:241:ARG:HH21	1.31	0.96
44:EA:91:GLN:HG2	44:EA:121:ARG:HD3	1.47	0.96
45:FL:104:GLY:HA2	45:FL:109:GLY:H	1.31	0.96
45:FN:10:GLY:O	45:FN:14:ASN:N	1.98	0.96
45:HL:302:ALA:HB3	45:HL:377:MET:HE1	1.47	0.96
45:JH:217:LEU:HD21	45:JH:220:PRO:HB3	1.48	0.96
44:LK:222:PRO:CG	45:LL:324:LYS:HE3	1.95	0.96
45:NF:97:ALA:HB3	45:NF:143:THR:HB	1.47	0.96
45:OB:246:LEU:HD13	45:OB:353:ILE:HD12	1.44	0.96
44:OI:208:ALA:HB2	44:OI:304:LYS:HE3	1.47	0.96
45:RF:61:PRO:HG2	45:RF:84:LEU:HB3	1.47	0.96
44:SI:320:ARG:HG3	44:SI:374:ALA:HB3	1.47	0.96
45:VH:164:MET:HB2	45:VH:197:ASP:H	1.29	0.96
45:VJ:342:VAL:HG12	45:VJ:345:ILE:HG22	1.43	0.96
26:3R:505:TYR:HB2	44:EK:39:ASP:HB3	1.46	0.96
35:6R:294:ASN:HD21	45:DN:217:LEU:HD12	1.25	0.96
44:AG:311:LYS:H	44:AG:382:THR:HB	1.28	0.96
44:AM:319:TYR:HB2	44:AM:355:ILE:HD13	1.48	0.96
45:BD:301:CYS:HB3	45:BD:377:MET:HE3	1.47	0.96
44:CK:288:VAL:HG11	44:CK:327:ASP:HB3	1.48	0.96
44:CK:304:LYS:HD2	44:CK:387:VAL:HG11	1.48	0.96
45:EB:113:ILE:HA	45:EB:116:VAL:HG12	1.45	0.96
44:GA:362:VAL:HG11	44:GA:370:LYS:HB3	1.48	0.96
45:IN:64:ILE:HD11	45:IN:123:GLU:HG3	1.47	0.96
44:MM:171:ILE:HG12	44:MM:204:LEU:HB2	1.44	0.96
45:ND:215:LEU:HA	45:ND:275:SER:HA	1.46	0.96
45:NJ:320:ARG:NH2	45:NJ:355:ASP:HA	1.80	0.96
45:OL:99:ASN:HA	45:OL:142:GLY:HA3	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:309:ARG:NH2	45:QJ:426:GLN:O	1.99	0.96
45:QN:269:GLY:HA2	45:QN:300:MET:HG2	1.45	0.96
44:SA:51:THR:HG21	44:SA:243:ARG:HD3	1.48	0.96
45:SD:313:ALA:HB1	45:SD:367:PHE:HE1	1.30	0.96
45:TF:325:GLU:HA	45:TF:328:GLU:HG2	1.48	0.96
45:TJ:8:GLN:HE21	45:TJ:14:ASN:HA	1.31	0.96
45:VB:86:ARG:HD2	45:VB:87:PRO:HD2	1.46	0.96
45:VH:135:ILE:HB	45:VH:166:THR:HG22	1.43	0.96
1:6H:382:PHE:HZ	44:FK:363:VAL:HG13	1.18	0.96
15:1V:142:ILE:HA	44:LK:415:GLU:OE1	1.15	0.96
35:6R:80:ARG:HH12	44:MM:38:SER:HA	0.81	0.96
35:6R:294:ASN:HD21	45:DN:217:LEU:CD1	1.77	0.96
44:BE:66:VAL:HG11	44:BE:122:ILE:HD11	1.44	0.96
45:CD:207:LEU:HB3	45:CD:225:LEU:HD22	1.46	0.96
44:EA:231:ILE:HA	44:EA:234:VAL:HG22	1.46	0.96
45:EJ:173:PRO:HG3	45:EJ:380:ARG:HD3	1.47	0.96
45:FJ:215:LEU:HD22	45:FJ:217:LEU:HB3	1.44	0.96
44:FK:89:PRO:HG2	44:GK:280:LYS:HG2	1.43	0.96
45:HB:379:LYS:HG3	45:HB:419:VAL:HG11	1.47	0.96
44:KG:11:GLN:HG3	44:KG:74:VAL:HG11	1.47	0.96
45:KN:419:VAL:O	45:KN:423:GLN:N	1.98	0.96
45:LD:318:ARG:HB2	45:LD:364:ALA:HB3	1.45	0.96
45:OJ:178:THR:HB	45:OJ:181:GLU:HG3	1.48	0.96
45:PF:30:ILE:HG23	45:PF:34:GLY:HA2	1.48	0.96
45:PF:178:THR:HB	45:PF:181:GLU:HG3	1.48	0.96
44:SA:314:ALA:N	44:SA:380:ASN:O	1.99	0.96
45:UH:262:ARG:HG3	45:UH:263:LEU:HD12	1.44	0.96
44:UI:3:GLU:O	44:UI:133:GLN:N	1.96	0.96
45:WD:426:GLN:NE2	45:WD:427:ASP:OD2	1.98	0.96
44:WG:271:SER:HA	44:WG:302:MET:HG2	1.47	0.96
25:1P:248:LYS:HE3	45:SF:56:GLY:HA3	1.47	0.96
31:4H:186:CYS:SG	45:AL:279:GLN:NE2	2.38	0.96
38:5F:164:LYS:HG2	38:5F:165:PRO:HD3	1.46	0.96
35:5R:242:ASN:HB2	44:BI:57:GLY:HA3	1.47	0.96
35:6R:288:LYS:HZ1	44:CM:44:GLY:C	1.67	0.96
44:CA:184:PRO:HB2	44:CA:395:PHE:HB2	1.48	0.96
44:CA:311:LYS:HD2	44:CA:342:GLN:HG3	1.48	0.96
44:CA:329:ASN:HD21	45:CB:175:VAL:HG12	1.26	0.96
44:DI:326:LYS:HG2	45:DJ:220:PRO:HD2	1.44	0.96
45:DL:324:LYS:HG2	44:DM:222:PRO:HG2	1.46	0.96
45:DN:113:ILE:HD13	45:DN:150:LEU:HD22	1.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EE:188:ILE:HG21	44:EE:422:ARG:HH22	1.25	0.96
45:EH:97:ALA:HB3	45:EH:143:THR:HB	1.45	0.96
44:GK:407:TRP:HZ3	45:GL:255:VAL:HA	1.25	0.96
44:JM:105:ARG:HA	44:JM:109:THR:HG22	1.44	0.96
45:KL:242:PHE:HB3	45:KL:356:ILE:HD13	1.48	0.96
45:MD:207:LEU:HD23	45:MD:225:LEU:HD22	1.48	0.96
44:NC:141:VAL:HG22	44:NC:187:SER:HA	1.48	0.96
45:OL:215:LEU:HB3	45:OL:217:LEU:HG	1.47	0.96
45:RN:178:THR:HB	45:RN:181:GLU:HG3	1.47	0.96
44:VC:87:PHE:HB3	44:VC:92:LEU:HD11	1.45	0.96
44:WA:292:THR:HG21	44:WA:331:SER:HB3	1.48	0.96
1:6H:174:MET:CE	45:FB:320:ARG:CZ	2.44	0.96
25:1P:168:ARG:NH2	44:TI:370:LYS:O	1.99	0.96
35:5R:531:THR:HB	35:5R:588:LEU:HD21	1.47	0.96
45:CF:361:LEU:HA	45:CF:362:LYS:HE2	1.48	0.96
44:CI:11:GLN:HG3	44:CI:74:VAL:HG11	1.47	0.96
44:EM:88:HIS:HB3	44:EM:91:GLN:HG3	1.46	0.96
44:HA:315:CYS:N	44:HA:350:GLY:O	1.98	0.96
44:JK:237:SER:OG	44:JK:320:ARG:NH2	1.99	0.96
44:LA:154:LEU:HD23	44:LA:157:LEU:HD12	1.47	0.96
44:NC:278:ALA:HB2	44:NC:369:ALA:HB2	1.47	0.96
45:PL:86:ARG:HH21	45:PL:87:PRO:HG2	1.28	0.96
44:QA:358:GLN:NE2	44:QA:359:PRO:O	1.99	0.96
44:RE:284:GLU:HG3	44:RE:286:LEU:HD22	1.48	0.96
45:SH:174:LYS:HD2	45:SH:175:VAL:HG13	1.48	0.96
44:WE:325:PRO:HG3	44:WE:355:ILE:HD13	1.46	0.96
37:5D:110:ARG:HB2	44:NM:280:LYS:HG2	1.46	0.95
41:6G:268:VAL:HA	44:VA:338:LYS:HD2	1.48	0.95
35:6R:66:THR:CG2	45:MN:39:ASP:HA	1.96	0.95
35:6R:413:ILE:HG22	35:6R:417:TYR:CD2	2.01	0.95
45:CD:178:THR:HB	45:CD:181:GLU:HG3	1.43	0.95
45:EB:318:ARG:HB2	45:EB:364:ALA:HB3	1.46	0.95
44:GC:68:LEU:HD21	44:GC:118:CYS:HB2	1.48	0.95
45:IJ:113:ILE:HA	45:IJ:116:VAL:HG12	1.48	0.95
45:JD:341:PHE:HB3	45:JD:348:ASN:HD21	1.26	0.95
45:KN:156:ARG:HD3	45:KN:164:MET:HE3	1.47	0.95
45:RL:256:ASN:HD22	45:RL:350:LYS:HD2	1.31	0.95
44:TI:141:VAL:HG11	44:TI:172:TYR:HA	1.48	0.95
44:UI:88:HIS:HB3	44:UI:91:GLN:HG2	1.47	0.95
45:UJ:181:GLU:HG3	45:UJ:182:PRO:HD3	1.46	0.95
45:VD:372:THR:HA	45:VD:422:TYR:HE2	1.28	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:7:ILE:HB	45:VJ:135:ILE:HD12	1.45	0.95
45:WH:198:GLU:HA	45:WH:264:HIS:HB2	1.48	0.95
5:2D:50:SER:HB3	45:DJ:53:GLU:HG3	1.48	0.95
44:HA:288:VAL:HA	44:HA:291:ILE:HG12	1.48	0.95
45:HL:101:TRP:HZ3	45:HL:187:LEU:HG	1.30	0.95
44:IA:167:LEU:HG	44:IA:200:VAL:HB	1.47	0.95
45:IJ:7:ILE:HB	45:IJ:135:ILE:HD12	1.44	0.95
45:OJ:211:CYS:HB3	45:OJ:217:LEU:HD21	1.48	0.95
44:PK:66:VAL:HG21	44:PK:122:ILE:HD11	1.47	0.95
44:RG:286:LEU:HD13	44:RG:375:VAL:HG12	1.48	0.95
45:RJ:135:ILE:HB	45:RJ:166:THR:HG22	1.46	0.95
45:TH:183:TYR:HE2	45:TH:394:PHE:HB2	1.31	0.95
44:UA:317:MET:CE	44:UA:375:VAL:HG22	1.95	0.95
45:VB:7:ILE:HG12	45:VB:64:ILE:HB	1.45	0.95
15:1V:101:ILE:HD12	44:LI:415:GLU:HG3	1.44	0.95
37:5D:34:PHE:CD2	44:KK:430:LYS:C	2.40	0.95
45:AJ:341:PHE:HB3	45:AJ:348:ASN:HD21	1.29	0.95
44:DG:271:SER:HA	44:DG:302:MET:HG2	1.46	0.95
44:FC:109:THR:HG23	44:FC:110:ILE:HG23	1.47	0.95
45:FN:210:ILE:HG23	45:FN:214:THR:HG21	1.48	0.95
44:GA:73:THR:OG1	45:GB:2:ARG:NH2	1.99	0.95
45:IB:272:PRO:O	45:IB:273:LEU:HD23	1.66	0.95
44:JC:204:LEU:HD13	44:JC:231:ILE:HD12	1.47	0.95
45:JD:314:SER:HA	45:JD:350:LYS:HB3	1.47	0.95
45:MF:100:ASN:HB2	45:MF:397:TRP:HE1	1.29	0.95
45:MJ:372:THR:HA	45:MJ:422:TYR:HE2	1.30	0.95
44:OE:11:GLN:HG3	44:OE:74:VAL:HG11	1.46	0.95
44:OE:27:GLU:HG3	44:OE:361:THR:HG21	1.47	0.95
45:OF:318:ARG:HD3	45:OF:358:PRO:HD3	1.45	0.95
44:QK:352:LYS:HZ3	45:QL:178:THR:HA	1.31	0.95
44:RC:394:LYS:HA	44:RC:397:LEU:HD12	1.48	0.95
45:RL:210:ILE:HD11	45:RL:298:ASN:HA	1.48	0.95
44:SE:10:GLY:O	44:SE:14:ILE:N	1.99	0.95
44:TC:203:MET:HG3	44:TC:384:ILE:HD11	1.45	0.95
44:UA:274:PRO:HG3	44:UA:291:ILE:HG21	1.47	0.95
44:UC:135:PHE:HB2	44:UC:166:LYS:HG2	1.44	0.95
44:WK:257:THR:HA	45:WN:397:TRP:CH2	2.01	0.95
22:3L:42:LYS:NZ	45:BB:42:LEU:HD22	1.81	0.95
45:AF:302:ALA:HB3	45:AF:377:MET:HE3	1.47	0.95
45:CF:58:ARG:HD3	45:DF:280:GLN:HG3	1.48	0.95
44:DG:237:SER:HA	44:DG:320:ARG:HH11	1.28	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:268:ILE:HG22	45:DH:368:VAL:HA	1.48	0.95
44:HA:338:LYS:HG2	44:HA:341:ILE:HD12	1.48	0.95
45:KJ:235:GLY:HA3	45:KJ:366:THR:HG21	1.48	0.95
44:LC:11:GLN:HG3	44:LC:74:VAL:HG11	1.48	0.95
44:LG:11:GLN:HG3	44:LG:74:VAL:HG11	1.46	0.95
45:LL:313:ALA:HB3	45:LL:349:ILE:HG12	1.47	0.95
44:MK:1:MET:HB2	44:MK:130:THR:HG21	1.45	0.95
44:NE:347:CYS:SG	45:NH:391:ARG:NH1	2.39	0.95
44:NK:31:GLN:HG3	44:NK:32:PRO:HD2	1.47	0.95
45:QN:150:LEU:HD21	45:QN:154:LYS:HE2	1.47	0.95
44:RK:206:ASN:HA	44:RK:209:ILE:HD12	1.46	0.95
44:SA:188:ILE:HD12	44:SA:425:LEU:HD11	1.45	0.95
45:TH:255:VAL:HA	44:TI:407:TRP:HZ3	1.31	0.95
45:VJ:67:ASP:HB3	45:VJ:73:MET:HE2	1.48	0.95
22:2L:361:PRO:O	35:6R:100:GLN:OE1	1.84	0.95
41:6G:228:GLY:H	44:VC:340:THR:HG21	1.30	0.95
44:BG:212:ILE:HD11	44:BG:300:ASN:HA	1.46	0.95
45:DB:248:SER:HA	45:DB:252:LYS:HD2	1.48	0.95
44:FK:242:LEU:HD21	44:FK:251:ASP:HA	1.45	0.95
45:FL:6:HIS:HB2	45:FL:134:GLN:HE21	1.31	0.95
45:HH:86:ARG:HD2	45:IH:281:TYR:HB3	1.45	0.95
45:KN:139:LEU:HA	45:KN:145:SER:HB3	1.49	0.95
44:NA:5:ILE:HG12	44:NA:64:ARG:HB3	1.48	0.95
45:NB:391:ARG:HD2	45:NB:393:ALA:HB2	1.46	0.95
45:NJ:341:PHE:HB3	45:NJ:348:ASN:HD21	1.31	0.95
45:PD:47:ILE:HG12	45:PD:51:TYR:HB2	1.47	0.95
44:PG:2:ARG:HG3	44:PG:242:LEU:HD11	1.49	0.95
44:RG:326:LYS:HD3	45:RH:212:PHE:HZ	1.29	0.95
44:RK:64:ARG:HG3	44:RK:125:LEU:HD22	1.46	0.95
45:SB:313:ALA:HA	45:SB:369:GLY:HA2	1.45	0.95
45:UH:5:VAL:HG12	45:UH:62:ARG:HD3	1.49	0.95
1:6H:170:TYR:CD2	45:FB:320:ARG:NH2	2.34	0.95
22:3L:42:LYS:CB	45:BB:320:ARG:HH12	1.78	0.95
45:AB:23:VAL:HG21	45:AB:230:SER:HB3	1.48	0.95
44:AG:251:ASP:HB2	44:AG:254:GLU:HG2	1.46	0.95
44:AM:101:ASN:HD21	45:AN:252:LYS:HE3	1.29	0.95
45:CD:318:ARG:HB2	45:CD:364:ALA:HB3	1.46	0.95
44:DA:315:CYS:HB3	44:DA:351:PHE:HA	1.47	0.95
45:ED:97:ALA:HB2	45:ED:143:THR:HB	1.45	0.95
44:FG:36:MET:HE3	44:FG:37:PRO:HD2	1.48	0.95
44:GK:75:ILE:HG21	44:GK:94:SER:HB3	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:207:LEU:HB3	45:IJ:225:LEU:HD22	1.49	0.95
44:NC:420:GLU:O	44:NC:424:ASP:N	1.99	0.95
44:OG:141:VAL:HG11	44:OG:172:TYR:HA	1.49	0.95
44:QC:258:ASN:HD21	45:QD:178:THR:HG23	1.29	0.95
45:QD:248:SER:HA	45:QD:252:LYS:HD2	1.49	0.95
45:SH:255:VAL:HA	44:SI:407:TRP:HZ3	1.29	0.95
45:SH:324:LYS:HE2	44:SI:210:TYR:HB3	1.46	0.95
45:TF:113:ILE:HD11	45:TF:151:LEU:HB2	1.48	0.95
44:TG:254:GLU:HG2	45:TH:98:GLY:HA2	1.46	0.95
45:TL:317:PHE:N	45:TL:352:SER:O	1.99	0.95
44:UA:316:SER:HA	44:UA:352:LYS:H	1.26	0.95
5:0D:59:GLY:HA3	44:EC:279:GLU:HG3	1.48	0.95
13:2T:147:PHE:CD1	45:MJ:106:TYR:HB3	2.01	0.95
37:5D:27:LYS:HG3	45:KN:392:LYS:HB3	1.48	0.95
45:ED:5:VAL:HG12	45:ED:62:ARG:HD3	1.49	0.95
45:FB:42:LEU:HA	45:FB:45:GLU:HG3	1.46	0.95
45:FB:342:VAL:HG21	45:FB:345:ILE:HG23	1.47	0.95
44:FC:87:PHE:HB3	44:FC:91:GLN:HE21	1.30	0.95
44:GG:11:GLN:HG3	44:GG:74:VAL:HG11	1.49	0.95
45:GJ:207:LEU:HA	45:GJ:210:ILE:HD12	1.47	0.95
44:HK:15:GLN:HA	44:HK:18:ASN:HB2	1.46	0.95
44:IE:288:VAL:HA	44:IE:291:ILE:HG12	1.47	0.95
44:JA:76:ASP:HA	44:JA:79:ARG:HD2	1.45	0.95
44:JA:188:ILE:HG23	44:JA:189:LEU:HD12	1.49	0.95
44:NK:51:THR:HG21	44:NK:243:ARG:HG2	1.47	0.95
44:OM:75:ILE:HD11	44:OM:92:LEU:HB3	1.46	0.95
44:RM:316:SER:O	44:RM:378:ILE:N	1.98	0.95
45:SL:317:PHE:N	45:SL:352:SER:O	1.98	0.95
45:TH:52:ASN:OD1	45:TH:62:ARG:NH2	2.00	0.95
45:VB:246:LEU:HB2	45:VB:353:ILE:H	1.30	0.95
44:WM:328:VAL:HG11	44:WM:353:VAL:HG21	1.48	0.95
7:0F:53:ALA:HB1	44:EE:279:GLU:HG3	1.45	0.95
32:2I:44:PRO:HG2	45:GH:287:PRO:HB3	1.46	0.95
10:2N:259:ILE:HD11	45:KB:77:ARG:HH21	1.30	0.95
37:5A:159:PRO:HD2	44:KC:309:HIS:HB3	1.48	0.95
37:5D:115:ASP:HA	44:NM:373:ARG:HD3	1.47	0.95
45:EB:202:ILE:HG12	45:EB:300:MET:HE1	1.49	0.95
45:FB:174:LYS:HD3	45:FB:175:VAL:HG13	1.46	0.95
44:FC:223:THR:HG23	44:FC:225:THR:H	1.32	0.95
45:GJ:99:ASN:HA	45:GJ:142:GLY:HA3	1.47	0.95
45:KH:131:GLN:HE22	45:KH:250:LEU:HB2	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:189:LEU:HD11	44:KK:418:PHE:HE1	1.31	0.95
45:NJ:318:ARG:HD3	45:NJ:358:PRO:HG3	1.46	0.95
44:QE:292:THR:HG21	44:QE:331:SER:HB3	1.49	0.95
44:RC:242:LEU:HD11	44:RC:252:ILE:HG13	1.48	0.95
45:RD:178:THR:HB	45:RD:181:GLU:HG3	1.47	0.95
45:RJ:326:VAL:HG12	45:RJ:330:MET:HE2	1.47	0.95
45:TF:164:MET:HB3	45:TF:197:ASP:HB2	1.46	0.95
45:AB:50:TYR:HE2	45:AB:237:THR:HG1	1.11	0.95
45:AB:130:LEU:HG	45:AB:162:ARG:HD2	1.48	0.95
44:FG:11:GLN:HG3	44:FG:74:VAL:HG11	1.48	0.95
44:GA:288:VAL:HB	44:GA:373:ARG:HD2	1.46	0.95
44:GC:288:VAL:HG21	44:GC:327:ASP:HB3	1.49	0.95
45:LJ:218:THR:HG22	45:LJ:219:THR:HG23	1.49	0.95
45:MB:303:ALA:HB2	45:MB:377:MET:HG3	1.48	0.95
45:NN:5:VAL:HG12	45:NN:62:ARG:HD3	1.47	0.95
45:OD:135:ILE:HD13	45:OD:152:ILE:HD11	1.47	0.95
45:OD:280:GLN:HB3	45:OD:281:TYR:HA	1.47	0.95
45:PB:139:LEU:HA	45:PB:145:SER:HB3	1.49	0.95
44:QE:191:THR:HA	44:QE:194:LEU:HG	1.46	0.95
45:SD:321:MET:HE3	45:SD:353:ILE:HG23	1.47	0.95
45:SL:286:VAL:HG11	45:SL:325:GLU:HG2	1.47	0.95
45:TD:105:HIS:HB2	45:TD:146:GLY:HA2	1.49	0.95
44:TM:316:SER:HB3	44:TM:378:ILE:HB	1.45	0.95
45:VH:178:THR:HB	45:VH:181:GLU:HG3	1.48	0.95
44:VK:247:ALA:HB3	44:VK:355:ILE:HB	1.46	0.95
1:6H:300:GLU:CB	45:FH:355:ASP:OD2	2.04	0.95
38:5G:164:LYS:HG2	38:5G:165:PRO:HD3	1.48	0.95
44:AI:11:GLN:HG3	44:AI:74:VAL:HG11	1.49	0.95
44:BG:241:SER:HA	44:BG:356:ASN:HD21	1.28	0.95
44:DA:188:ILE:HD12	44:DA:425:LEU:HD11	1.46	0.95
44:FC:364:PRO:CB	44:FC:365:GLY:HA3	1.95	0.95
44:FK:407:TRP:HZ3	45:FL:255:VAL:HA	1.29	0.95
44:HI:101:ASN:ND2	46:HI:501:GTP:O2G	2.00	0.95
44:MI:407:TRP:HZ3	45:MJ:255:VAL:HA	1.31	0.95
45:OH:96:GLY:O	45:OH:103:LYS:NZ	1.99	0.95
44:QC:259:LEU:HD11	44:QC:316:SER:HB3	1.48	0.95
45:QJ:178:THR:HB	45:QJ:181:GLU:HG3	1.46	0.95
44:TC:10:GLY:HA2	44:TC:145:THR:HG23	1.48	0.95
44:FA:288:VAL:HA	44:FA:291:ILE:HG12	1.49	0.94
44:FC:11:GLN:HA	44:FC:14:ILE:HD12	1.45	0.94
44:FK:277:SER:HA	44:FK:369:ALA:HB2	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:8:GLN:HE21	45:IH:65:LEU:HG	1.28	0.94
44:II:254:GLU:HG2	45:IL:98:GLY:HA2	1.48	0.94
45:KN:46:ARG:HG2	45:KN:241:ARG:HA	1.46	0.94
44:OK:238:LEU:HD11	44:OK:255:PHE:HE2	1.30	0.94
44:QC:275:ILE:HG23	44:QC:368:LEU:HD11	1.46	0.94
44:QK:238:LEU:HD21	44:QK:255:PHE:HZ	1.30	0.94
44:RA:248:LEU:HD22	44:RA:354:GLY:HA2	1.47	0.94
45:RL:420:SER:HA	45:RL:423:GLN:HE22	1.31	0.94
44:SC:301:MET:HG3	44:SC:303:ALA:H	1.30	0.94
44:SK:328:VAL:HG21	44:SK:355:ILE:HD11	1.47	0.94
44:SM:175:PRO:HG2	44:SM:304:LYS:HG2	1.48	0.94
45:TL:378:PHE:O	45:TL:382:ALA:N	1.99	0.94
44:TM:200:VAL:HA	44:TM:266:HIS:HB2	1.47	0.94
44:UE:242:LEU:HD11	44:UE:252:ILE:HG13	1.49	0.94
45:WH:86:ARG:HE	45:WH:87:PRO:HD2	1.29	0.94
44:WM:3:GLU:HA	44:WM:51:THR:HA	1.47	0.94
1:6H:374:GLY:O	45:FL:320:ARG:NE	2.00	0.94
24:2O:156:ARG:HH12	44:VK:277:SER:HB2	1.27	0.94
35:6R:249:LEU:CD1	44:CM:370:LYS:NZ	2.29	0.94
45:CB:49:VAL:HG21	45:CB:241:ARG:HG2	1.48	0.94
45:DH:7:ILE:HG12	45:DH:64:ILE:HB	1.46	0.94
45:EL:278:SER:HA	45:EL:281:TYR:HD2	1.32	0.94
45:FN:221:THR:H	45:FN:224:ASP:HB2	1.32	0.94
44:JM:176:GLN:HE22	44:JM:207:GLU:HG2	1.31	0.94
45:NH:242:PHE:CD2	45:NH:356:ILE:HD11	2.01	0.94
44:NM:386:GLU:O	44:NM:389:SER:N	2.00	0.94
45:PD:5:VAL:HG13	45:PD:159:TYR:HB3	1.49	0.94
45:QB:274:THR:HB	45:QB:282:ARG:HH11	1.31	0.94
44:QE:269:LEU:HD22	44:QE:384:ILE:HD11	1.47	0.94
45:UD:334:GLN:HB2	45:UD:349:ILE:HD11	1.49	0.94
45:UF:382:ALA:O	45:UF:386:THR:N	1.98	0.94
15:1V:146:PRO:HD2	44:LK:414:GLU:OE1	1.62	0.94
44:BC:104:ALA:HB1	44:BC:411:GLU:HB2	1.48	0.94
45:BF:7:ILE:HB	45:BF:135:ILE:HD12	1.47	0.94
44:DK:68:LEU:HD21	44:DK:118:CYS:HB2	1.49	0.94
45:FB:317:PHE:HA	45:FB:365:VAL:HG12	1.47	0.94
44:GE:91:GLN:HG2	44:GE:121:ARG:HD2	1.50	0.94
45:GF:156:ARG:HH11	45:GF:164:MET:HG3	1.32	0.94
45:HB:315:ALA:N	45:HB:350:LYS:O	2.00	0.94
44:HC:340:THR:HG23	44:HC:341:ILE:HD12	1.49	0.94
45:JL:217:LEU:HD11	45:JL:220:PRO:HB3	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:46:ARG:HB3	45:OF:241:ARG:HB2	1.47	0.94
45:OH:10:GLY:O	45:OH:14:ASN:N	2.00	0.94
45:PN:169:VAL:HG22	45:PN:202:ILE:HB	1.48	0.94
44:QE:226:ASN:OD1	44:QE:229:ARG:NH2	1.99	0.94
44:QI:108:TYR:HA	44:QI:112:LYS:HE3	1.47	0.94
44:RG:316:SER:HA	44:RG:352:LYS:HB3	1.48	0.94
44:SA:426:ALA:HA	44:SA:429:GLU:HB2	1.48	0.94
44:SC:115:VAL:HG11	44:SC:152:LEU:HD23	1.50	0.94
45:SF:22:GLU:HG2	45:SF:81:PHE:HD2	1.29	0.94
44:TI:271:SER:HB2	44:TI:301:MET:HA	1.46	0.94
13:3T:146:MET:HE3	45:MN:402:GLY:HA2	1.44	0.94
35:6R:401:VAL:HG22	45:EN:277:GLY:CA	1.96	0.94
35:7R:424:LEU:HD22	35:7R:512:THR:HG23	1.48	0.94
45:BJ:330:MET:HE3	45:BJ:349:ILE:HG21	1.49	0.94
45:DB:49:VAL:HG11	45:DB:241:ARG:HG2	1.50	0.94
45:DD:330:MET:HB3	45:DD:349:ILE:HD13	1.47	0.94
44:DG:188:ILE:HD12	44:DG:425:LEU:HD11	1.49	0.94
45:FB:139:LEU:HA	45:FB:145:SER:HB3	1.47	0.94
45:HB:239:CYS:SG	45:HB:248:SER:OG	2.26	0.94
45:HB:268:ILE:HG22	45:HB:368:VAL:HG22	1.47	0.94
45:HF:99:ASN:HA	45:HF:142:GLY:HA3	1.48	0.94
45:HL:341:PHE:HB3	45:HL:348:ASN:HD21	1.27	0.94
45:HN:268:ILE:HG22	45:HN:368:VAL:HG22	1.45	0.94
45:IB:226:ASN:O	45:IB:230:SER:N	2.00	0.94
44:IC:414:GLU:HB2	44:IC:417:GLU:HG2	1.46	0.94
44:IM:12:GLY:O	44:IM:16:VAL:N	1.98	0.94
45:IN:42:LEU:HA	45:IN:45:GLU:HG3	1.46	0.94
44:JG:217:LEU:HD13	44:JG:277:SER:HB2	1.47	0.94
44:LG:2:ARG:HB2	44:LG:242:LEU:HD22	1.49	0.94
44:LG:81:GLY:O	44:LG:84:ARG:NH1	2.00	0.94
44:OK:325:PRO:HG3	45:ON:222:TYR:CE2	2.01	0.94
45:QF:86:ARG:HH11	45:RF:281:TYR:HB2	1.31	0.94
45:QL:311:LEU:N	45:QL:370:ASN:O	2.01	0.94
44:QM:311:LYS:HD2	44:QM:342:GLN:HG3	1.49	0.94
44:RC:188:ILE:HD12	44:RC:425:LEU:HD11	1.47	0.94
44:SC:316:SER:HB3	44:SC:378:ILE:HB	1.49	0.94
44:TC:89:PRO:HD3	44:UC:280:LYS:HE2	1.47	0.94
44:TI:135:PHE:HB2	44:TI:166:LYS:HG2	1.49	0.94
45:VD:303:ALA:HB2	45:VD:377:MET:HE1	1.49	0.94
45:WD:390:ARG:HD2	45:WD:391:ARG:HH21	1.30	0.94
44:AC:132:LEU:HD23	44:AC:164:LYS:HZ2	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:242:PHE:HD2	45:EJ:356:ILE:HG13	1.31	0.94
45:EJ:324:LYS:HD3	44:EK:222:PRO:HD2	1.48	0.94
45:FD:135:ILE:HB	45:FD:166:THR:HG22	1.44	0.94
45:HB:5:VAL:HG12	45:HB:62:ARG:HD3	1.47	0.94
45:HD:289:LEU:HD11	45:HD:363:MET:HB3	1.49	0.94
44:KA:288:VAL:HG11	44:KA:327:ASP:HB3	1.49	0.94
45:MB:154:LYS:HE3	45:MB:154:LYS:HA	1.48	0.94
44:NC:88:HIS:HA	44:OC:283:HIS:HD1	1.27	0.94
44:PC:141:VAL:HG11	44:PC:172:TYR:HA	1.49	0.94
45:PN:86:ARG:HE	45:PN:87:PRO:HD2	1.30	0.94
44:QC:258:ASN:HD22	44:QC:352:LYS:HD3	1.33	0.94
44:QE:70:LEU:HD12	44:QE:99:ALA:HB2	1.47	0.94
45:RH:323:THR:HA	45:RH:326:VAL:HB	1.48	0.94
44:RM:9:VAL:HG21	44:RM:153:LEU:HD11	1.46	0.94
44:SE:275:ILE:HD12	44:SE:368:LEU:HD11	1.45	0.94
45:SH:42:LEU:HA	45:SH:45:GLU:HG3	1.47	0.94
44:SK:278:ALA:HB2	44:SK:369:ALA:HB2	1.48	0.94
45:TD:268:ILE:HG22	45:TD:368:VAL:HG22	1.49	0.94
44:WC:291:ILE:HD13	44:WC:373:ARG:HB3	1.50	0.94
39:5I:95:LEU:HB3	39:5I:98:LEU:HB2	1.49	0.94
39:5J:97:LYS:HA	39:5J:97:LYS:HE3	1.48	0.94
35:5R:424:LEU:HD22	35:5R:512:THR:HG23	1.46	0.94
35:6R:319:PRO:HB3	45:CN:227:HIS:CB	1.97	0.94
35:7R:336:CYS:HA	35:7R:349:ILE:HB	1.49	0.94
45:BJ:99:ASN:HA	45:BJ:142:GLY:HA3	1.44	0.94
44:BM:68:LEU:HD21	44:BM:118:CYS:HB2	1.47	0.94
45:BN:66:MET:HG3	45:BN:116:VAL:HG21	1.48	0.94
44:CE:166:LYS:NZ	44:CE:197:HIS:O	2.00	0.94
45:EL:258:ILE:HG13	45:EL:266:PHE:HZ	1.30	0.94
45:FB:248:SER:HA	45:FB:252:LYS:HE2	1.50	0.94
44:FC:311:LYS:HA	44:FC:342:GLN:HE22	1.29	0.94
45:FD:21:TRP:CZ3	45:FD:61:PRO:HB2	2.03	0.94
45:FN:289:LEU:HB3	45:FN:365:VAL:HG21	1.48	0.94
45:GJ:372:THR:HA	45:GJ:422:TYR:HE2	1.27	0.94
44:HG:254:GLU:HG2	45:HJ:98:GLY:HA2	1.50	0.94
45:IH:204:ASN:HA	45:IH:207:LEU:HD12	1.50	0.94
44:IK:180:ALA:HA	45:IL:350:LYS:HD2	1.50	0.94
44:PK:325:PRO:HG2	45:PN:222:TYR:HE2	1.29	0.94
45:RH:113:ILE:HA	45:RH:116:VAL:HG12	1.50	0.94
44:TI:259:LEU:HD11	44:TI:316:SER:HB3	1.46	0.94
44:TM:268:MET:HE2	44:TM:269:LEU:H	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:86:ARG:NH1	45:VH:281:TYR:HB3	1.82	0.94
44:UM:315:CYS:HA	44:UM:317:MET:HE1	1.48	0.94
1:6H:293:ASP:CB	45:FH:360:GLY:HA2	1.95	0.94
1:6H:329:LEU:HD23	45:FJ:361:LEU:HD11	0.94	0.94
5:1D:84:SER:OG	45:EF:320:ARG:NH2	2.00	0.94
31:4H:191:LEU:HD23	45:AL:360:GLY:HA2	1.46	0.94
35:5R:241:PRO:HB2	44:CI:373:ARG:HH22	1.30	0.94
45:BN:173:PRO:HG2	45:BN:380:ARG:HD3	1.47	0.94
44:EC:276:ILE:HD11	44:EC:280:LYS:HG3	1.47	0.94
45:FN:110:ALA:HA	45:FN:113:ILE:HG22	1.48	0.94
45:FN:203:ASP:OD2	45:FN:302:ALA:N	1.99	0.94
44:HE:276:ILE:HD13	44:HE:281:ALA:HA	1.50	0.94
45:JJ:52:ASN:OD1	45:JJ:62:ARG:NH2	2.00	0.94
44:JM:177:VAL:HB	45:JN:331:LEU:HD22	1.48	0.94
44:KI:407:TRP:HZ3	45:KJ:255:VAL:HA	1.32	0.94
45:KJ:207:LEU:HB3	45:KJ:225:LEU:HD11	1.47	0.94
44:NA:152:LEU:O	44:NA:156:ARG:N	2.00	0.94
44:NE:55:GLU:HG3	44:NE:57:GLY:H	1.30	0.94
44:OI:178:SER:OG	45:OJ:347:ASN:ND2	2.00	0.94
44:TE:317:MET:HE1	44:TE:378:ILE:H	1.32	0.94
45:TJ:257:LEU:HG	45:TJ:370:ASN:HD21	1.33	0.94
45:VD:164:MET:SD	45:VD:197:ASP:N	2.41	0.94
20:1J:263:PHE:CE2	44:II:282:TYR:CD2	2.55	0.94
32:2I:142:LEU:O	45:GD:306:ARG:NH2	2.00	0.94
13:2T:74:ILE:HD12	44:MG:159:VAL:HG22	1.48	0.94
37:5D:34:PHE:CD1	44:KK:430:LYS:C	2.39	0.94
44:AE:288:VAL:HG11	44:AE:327:ASP:HB3	1.47	0.94
45:CL:202:ILE:HD13	45:CL:300:MET:HE2	1.50	0.94
45:DD:46:ARG:NH2	44:DE:76:ASP:OD2	2.01	0.94
44:DG:67:PHE:HB2	44:DG:92:LEU:HD13	1.48	0.94
44:DK:204:LEU:HD13	44:DK:231:ILE:HD11	1.47	0.94
45:EB:316:LEU:HB2	45:EB:366:THR:HB	1.49	0.94
44:FA:11:GLN:HG3	44:FA:74:VAL:HG11	1.50	0.94
44:FI:268:MET:HG3	44:FI:380:ASN:HB2	1.50	0.94
45:FL:86:ARG:HE	45:FL:87:PRO:HD2	1.29	0.94
44:GC:64:ARG:NH1	44:GC:129:CYS:SG	2.40	0.94
45:HD:86:ARG:HD3	45:ID:281:TYR:HB3	1.47	0.94
45:HL:97:ALA:HB3	45:HL:143:THR:HB	1.49	0.94
44:IC:276:ILE:HD11	44:IC:280:LYS:HG3	1.46	0.94
44:JM:70:LEU:HA	44:JM:95:GLY:HA3	1.48	0.94
45:KB:269:GLY:O	45:KB:367:PHE:N	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:382:ALA:HB2	45:LB:415:MET:HE1	1.50	0.94
45:MN:139:LEU:HD12	45:MN:170:VAL:HG22	1.50	0.94
44:NC:68:LEU:HD21	44:NC:118:CYS:HB2	1.49	0.94
44:NE:66:VAL:HG11	44:NE:122:ILE:HD11	1.50	0.94
45:NF:178:THR:HB	45:NF:181:GLU:HG3	1.50	0.94
44:NK:56:THR:N	44:NK:57:GLY:HA2	1.80	0.94
44:PG:188:ILE:HD12	44:PG:425:LEU:HD11	1.49	0.94
44:PM:63:PRO:HG2	44:PM:86:LEU:HD21	1.48	0.94
44:RC:69:ASP:HB3	44:RC:75:ILE:HD11	1.50	0.94
44:TM:278:ALA:HB2	44:TM:369:ALA:HB2	1.47	0.94
45:UB:51:TYR:HB3	45:UB:59:TYR:HB3	1.48	0.94
45:UL:330:MET:HE2	45:UL:349:ILE:HB	1.48	0.94
44:VA:325:PRO:HB3	45:VD:222:TYR:HE1	1.33	0.94
35:4R:301:PRO:HD2	45:CF:77:ARG:HH22	1.30	0.94
37:5D:37:ASP:HA	44:KK:262:TYR:HB3	1.45	0.94
37:5D:43:CYS:HA	45:KN:394:PHE:CE1	2.01	0.94
35:6R:538:PHE:CE1	35:6R:578:TYR:CG	2.55	0.94
45:AD:21:TRP:HA	45:AD:24:ILE:HG22	1.50	0.94
45:DF:314:SER:HB2	45:DF:350:LYS:HB3	1.48	0.94
45:HD:323:THR:HA	45:HD:326:VAL:HB	1.48	0.94
44:OI:166:LYS:HE3	44:OI:198:THR:HA	1.50	0.94
45:PF:20:PHE:CD2	45:PF:25:SER:CA	2.51	0.94
45:QL:178:THR:HB	45:QL:181:GLU:HG3	1.50	0.94
44:RM:68:LEU:HG	44:RM:93:ILE:HB	1.49	0.94
45:TN:372:THR:HG21	45:TN:423:GLN:HA	1.50	0.94
45:WB:67:ASP:OD1	45:WB:68:LEU:N	2.01	0.94
5:2D:77:ASN:OD1	45:EJ:362:LYS:NZ	1.99	0.94
6:3E:119:ASP:C	35:6R:579:ASN:HD21	1.65	0.94
38:5G:143:GLY:H	45:OL:279:GLN:HE21	1.15	0.94
45:AF:286:VAL:HG13	45:AF:287:PRO:CD	1.97	0.94
45:BN:394:PHE:HA	45:BN:397:TRP:HZ3	1.30	0.94
45:EF:255:VAL:HA	44:EG:407:TRP:CZ3	2.03	0.94
44:FA:11:GLN:HE22	45:FB:246:LEU:HA	1.32	0.94
45:FL:4:ILE:HG13	45:FL:131:GLN:HB3	1.50	0.94
45:GN:100:ASN:HD22	45:GN:103:LYS:HB2	1.31	0.94
44:HE:14:ILE:HD11	44:HE:69:ASP:HB2	1.47	0.94
45:IL:372:THR:HA	45:IL:422:TYR:HE2	1.33	0.94
44:LI:174:SER:OG	44:LI:177:VAL:O	1.85	0.94
44:MG:286:LEU:HB3	44:MG:373:ARG:NH1	1.82	0.94
45:ND:86:ARG:HH12	45:OD:280:GLN:HB3	1.33	0.94
45:NF:103:LYS:NZ	45:NF:401:GLU:OE2	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:317:PHE:HB3	45:SD:321:MET:HE1	1.46	0.94
5:1D:190:THR:HA	44:FE:219:ILE:HD11	1.47	0.93
16:3X:103:ASN:HD21	44:MK:370:LYS:HB3	1.26	0.93
38:5G:123:ARG:HA	44:OI:370:LYS:HG3	1.50	0.93
36:5S:144:ILE:HG23	36:5S:145:PRO:HD3	1.48	0.93
44:BK:328:VAL:HG11	44:BK:353:VAL:HG21	1.47	0.93
44:CA:317:MET:O	44:CA:354:GLY:N	1.99	0.93
44:CM:204:LEU:HD13	44:CM:231:ILE:HD13	1.46	0.93
45:DL:135:ILE:HB	45:DL:166:THR:HG22	1.50	0.93
44:DM:320:ARG:HB3	44:DM:356:ASN:HB3	1.49	0.93
44:EE:7:ILE:HB	44:EE:137:VAL:HA	1.50	0.93
44:FA:25:CYS:O	44:FA:29:GLY:N	2.01	0.93
44:HA:141:VAL:HG11	44:HA:173:PRO:HD3	1.50	0.93
44:HC:68:LEU:HD21	44:HC:118:CYS:HB2	1.47	0.93
45:HH:303:ALA:H	45:HH:377:MET:HE2	1.33	0.93
45:IB:130:LEU:HD23	45:IB:162:ARG:HD2	1.49	0.93
45:LN:49:VAL:HG11	45:LN:241:ARG:HG2	1.48	0.93
45:PD:60:VAL:O	45:PD:62:ARG:NH1	2.00	0.93
45:PF:318:ARG:HB2	45:PF:364:ALA:HB3	1.48	0.93
45:PL:260:PHE:HB3	45:PL:261:PRO:HD2	1.48	0.93
45:SN:372:THR:HA	45:SN:422:TYR:HE2	1.34	0.93
44:TI:21:TRP:O	44:TI:25:CYS:N	2.01	0.93
45:TN:209:ASP:OD1	45:TN:213:ARG:NH1	2.01	0.93
45:UD:309:ARG:N	45:UD:372:THR:HG1	1.66	0.93
45:UL:302:ALA:HB3	45:UL:377:MET:HE1	1.49	0.93
45:WN:299:MET:HG3	45:WN:305:PRO:HG3	1.51	0.93
20:1J:263:PHE:CG	44:II:282:TYR:CD1	2.56	0.93
40:6F:44:ARG:HD3	45:IF:40:SER:HA	1.49	0.93
44:AE:372:MET:HB2	44:AE:373:ARG:HD2	1.49	0.93
45:BH:113:ILE:HD13	45:BH:150:LEU:HD22	1.50	0.93
45:BN:73:MET:HE1	45:BN:92:PHE:HB3	1.49	0.93
45:EH:202:ILE:HD11	45:EH:300:MET:HB2	1.50	0.93
45:HD:318:ARG:HB2	45:HD:364:ALA:HB3	1.48	0.93
45:IH:217:LEU:HD12	45:IH:220:PRO:HD3	1.46	0.93
45:LL:173:PRO:HG3	45:LL:380:ARG:HE	1.31	0.93
44:RI:146:GLY:O	44:RI:150:GLY:N	2.00	0.93
44:SG:101:ASN:HA	44:SG:144:GLY:HA2	1.49	0.93
44:UM:275:ILE:HG23	44:UM:368:LEU:HD11	1.46	0.93
44:VM:244:PHE:HB2	44:VM:356:ASN:HD21	1.31	0.93
44:WK:222:PRO:HG2	45:WL:324:LYS:HD3	1.50	0.93
15:1V:124:LEU:HD11	45:LL:409:THR:HG21	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:300:PHE:CD2	45:CN:77:ARG:CD	2.44	0.93
44:CG:288:VAL:HG11	44:CG:327:ASP:HB3	1.51	0.93
44:GI:242:LEU:HD11	44:GI:252:ILE:HD11	1.48	0.93
45:HB:64:ILE:HA	45:HB:89:ASN:HB3	1.49	0.93
45:KB:6:HIS:HB3	45:KB:63:ALA:HB2	1.47	0.93
44:LI:288:VAL:HG11	44:LI:327:ASP:HB3	1.50	0.93
44:OE:222:PRO:HD2	45:OF:324:LYS:HG3	1.50	0.93
45:OH:34:GLY:HA3	45:OH:58:ARG:HG3	1.48	0.93
44:PI:14:ILE:HD11	44:PI:69:ASP:HB2	1.50	0.93
45:QD:253:LEU:HD21	45:QD:316:LEU:HD21	1.50	0.93
44:RK:104:ALA:HB1	44:RK:411:GLU:HB2	1.49	0.93
44:UK:256:GLN:HG2	44:UK:260:VAL:HB	1.50	0.93
11:6Q:15:TYR:HE2	11:6Q:17:ILE:HB	1.31	0.93
45:BD:248:SER:HA	45:BD:252:LYS:HD2	1.48	0.93
44:BI:102:ASN:HB3	44:BI:105:ARG:HG3	1.50	0.93
44:BM:221:ARG:NH1	45:BN:325:GLU:OE1	2.00	0.93
45:EF:325:GLU:HA	45:EF:328:GLU:HG2	1.49	0.93
44:FC:254:GLU:HG2	45:FF:98:GLY:HA2	1.49	0.93
45:FN:177:ASP:OD2	48:FN:501:GDP:O3'	1.87	0.93
44:GC:311:LYS:HG3	44:GC:342:GLN:HE22	1.33	0.93
45:HL:167:PHE:HE2	45:HL:233:MET:HG2	1.34	0.93
44:JE:178:SER:OG	45:JF:347:ASN:ND2	2.00	0.93
44:LA:413:MET:HG2	44:LA:417:GLU:HG3	1.48	0.93
45:LD:316:LEU:HD13	45:LD:352:SER:HB2	1.51	0.93
45:MB:317:PHE:HA	45:MB:365:VAL:HG22	1.49	0.93
45:NN:261:PRO:HD2	45:NN:262:ARG:H	1.33	0.93
44:QM:384:ILE:O	44:QM:387:VAL:HG22	1.68	0.93
45:RN:135:ILE:HG13	45:RN:152:ILE:HD11	1.50	0.93
2:1A:36:ARG:HG2	45:MF:42:LEU:HD11	1.49	0.93
31:2H:191:LEU:HD23	45:AD:360:GLY:HA2	1.50	0.93
44:AK:407:TRP:CZ3	45:AL:255:VAL:HA	2.03	0.93
45:EB:169:VAL:HG22	45:EB:202:ILE:HB	1.49	0.93
45:FD:208:TYR:HE1	45:FD:225:LEU:HD11	1.30	0.93
44:FE:3:GLU:HG3	44:FE:129:CYS:HB3	1.49	0.93
45:JF:210:ILE:HG22	45:JF:215:LEU:HG	1.48	0.93
45:KH:213:ARG:HH11	45:KH:214:THR:HG22	1.33	0.93
45:MN:49:VAL:HG21	45:MN:241:ARG:HG2	1.47	0.93
44:QE:21:TRP:O	44:QE:25:CYS:N	2.01	0.93
45:SN:242:PHE:HB3	45:SN:356:ILE:HD13	1.47	0.93
44:UC:212:ILE:HG21	44:UC:275:ILE:HD12	1.48	0.93
45:VN:42:LEU:HA	45:VN:45:GLU:HG3	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:288:VAL:HA	44:WI:291:ILE:HG12	1.51	0.93
45:AJ:280:GLN:HE22	45:MJ:58:ARG:HH21	1.16	0.93
45:CD:107:THR:HG21	45:CD:401:GLU:HB3	1.48	0.93
44:CK:66:VAL:HG11	44:CK:122:ILE:HD11	1.50	0.93
45:FD:325:GLU:HA	45:FD:328:GLU:HG2	1.50	0.93
45:GF:22:GLU:HG2	45:GF:81:PHE:HD2	1.32	0.93
44:II:91:GLN:HG2	44:II:121:ARG:HD2	1.48	0.93
45:IL:91:VAL:HG21	45:IL:116:VAL:HG23	1.51	0.93
44:IM:317:MET:HA	44:IM:377:MET:HA	1.46	0.93
44:MI:403:ALA:HA	45:MJ:260:PHE:HE1	1.28	0.93
44:MI:407:TRP:CZ3	45:MJ:255:VAL:HA	2.04	0.93
45:ND:135:ILE:HG21	45:ND:152:ILE:HD11	1.50	0.93
44:OK:24:PHE:HE1	44:OK:236:SER:HB2	1.32	0.93
45:SF:68:LEU:HD23	45:SF:97:ALA:HB2	1.47	0.93
45:SH:101:TRP:HB2	45:SH:184:ASN:HB3	1.48	0.93
44:TE:3:GLU:O	44:TE:133:GLN:N	2.02	0.93
45:UJ:178:THR:HG22	45:UJ:180:VAL:HG12	1.50	0.93
35:5R:29:GLN:OE1	44:LG:1:MET:N	2.02	0.93
41:6G:263:SER:HB3	44:VA:337:THR:HG23	1.50	0.93
35:7R:548:PHE:O	35:7R:552:LEU:N	2.00	0.93
45:BH:356:ILE:CG2	45:BH:357:PRO:HD2	1.97	0.93
44:DK:66:VAL:HG11	44:DK:122:ILE:HD11	1.50	0.93
45:HD:248:SER:HA	45:HD:252:LYS:HD2	1.49	0.93
44:KA:259:LEU:HB3	44:KA:268:MET:HE1	1.51	0.93
45:ND:318:ARG:HB3	45:ND:364:ALA:HB3	1.49	0.93
45:NN:32:PRO:HA	45:NN:84:LEU:HD11	1.51	0.93
45:RF:321:MET:SD	44:RG:221:ARG:NH2	2.42	0.93
44:RK:430:LYS:O	44:RK:434:GLU:N	2.00	0.93
36:5S:192:MET:HA	45:AH:424:GLN:HE22	1.34	0.93
45:AN:410:GLU:O	45:AN:413:SER:OG	1.87	0.93
45:EF:203:ASP:OD2	45:EF:302:ALA:N	2.02	0.93
44:EG:349:THR:HG23	45:EH:179:VAL:HA	1.51	0.93
45:EH:255:VAL:HA	44:EI:407:TRP:CZ3	2.02	0.93
45:FL:315:ALA:HB3	45:FL:351:SER:HA	1.49	0.93
44:GG:407:TRP:HZ3	45:GH:255:VAL:HA	1.32	0.93
45:GH:113:ILE:HD13	45:GH:150:LEU:HD22	1.51	0.93
44:GK:251:ASP:H	44:GK:257:THR:HG23	1.33	0.93
45:HH:269:GLY:HA2	45:HH:300:MET:CG	1.98	0.93
45:HL:246:LEU:HD13	45:HL:353:ILE:HD13	1.51	0.93
44:LM:31:GLN:HB2	44:LM:37:PRO:HD3	1.49	0.93
45:OF:119:VAL:HG23	45:OF:122:LYS:HE2	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:207:LEU:HB3	45:PN:225:LEU:HD22	1.51	0.93
44:RC:173:PRO:HG2	44:RC:391:LEU:HD21	1.50	0.93
45:SJ:358:PRO:HB2	45:SJ:361:LEU:HB2	1.50	0.93
44:TK:259:LEU:HD11	44:TK:316:SER:HB3	1.50	0.93
45:TN:278:SER:HA	45:TN:281:TYR:HD2	1.33	0.93
45:UF:174:LYS:HE2	45:UF:205:GLU:HB2	1.47	0.93
44:VM:75:ILE:HG21	44:VM:94:SER:HB2	1.51	0.93
45:WD:320:ARG:HH12	45:WD:362:LYS:HB3	1.30	0.93
15:2V:69:SER:HB2	45:MF:336:LYS:HB3	1.49	0.93
45:AL:286:VAL:HB	45:AL:325:GLU:HG2	1.49	0.93
45:DB:139:LEU:HD13	45:DB:168:SER:HB3	1.48	0.93
45:DN:166:THR:HG21	45:DN:192:LEU:HD11	1.49	0.93
44:EE:68:LEU:HD21	44:EE:118:CYS:HB2	1.47	0.93
44:HI:402:ARG:HB3	44:HI:405:VAL:HG11	1.51	0.93
45:ID:237:THR:HG23	45:ID:241:ARG:HH21	1.33	0.93
45:KN:411:ALA:O	45:KN:415:MET:N	2.02	0.93
44:LM:36:MET:HG2	44:LM:38:SER:H	1.33	0.93
44:QG:276:ILE:HG12	44:QG:281:ALA:HB2	1.50	0.93
44:RA:294:SER:HA	44:RA:297:GLU:HG3	1.50	0.93
45:RD:86:ARG:HE	45:RD:87:PRO:HD2	1.34	0.93
45:SB:205:GLU:O	45:SB:209:ASP:N	2.00	0.93
44:SG:203:MET:HG3	44:SG:384:ILE:HD11	1.51	0.93
45:TH:319:GLY:HA2	45:TH:357:PRO:HB3	1.47	0.93
44:VC:100:ALA:HB1	45:VD:255:VAL:HG21	1.50	0.93
44:VM:265:ILE:HD11	44:VM:435:VAL:HG21	1.50	0.93
45:VN:317:PHE:HA	45:VN:365:VAL:HG22	1.51	0.93
20:1J:263:PHE:CD2	44:II:282:TYR:CA	2.51	0.93
37:5D:27:LYS:N	45:KN:392:LYS:O	2.01	0.93
39:5J:42:ASN:HB3	39:5J:43:PRO:HD3	1.49	0.93
42:8L:21:UNK:O	42:8L:25:UNK:N	2.02	0.93
45:AJ:178:THR:HB	45:AJ:181:GLU:HG3	1.49	0.93
44:CC:292:THR:HG21	44:CC:331:SER:HB3	1.50	0.93
44:DA:89:PRO:HG3	44:EA:280:LYS:HG2	1.51	0.93
44:DG:268:MET:HG2	44:DG:380:ASN:HB2	1.52	0.93
45:EB:202:ILE:HG23	45:EB:300:MET:HE2	1.50	0.93
45:EN:86:ARG:NH1	45:FN:278:SER:OG	2.02	0.93
44:GM:171:ILE:HA	44:GM:204:LEU:CB	1.98	0.93
45:HF:60:VAL:HG11	45:HF:86:ARG:HE	1.34	0.93
45:HJ:163:ILE:HD12	45:HJ:250:LEU:HD22	1.50	0.93
44:IC:242:LEU:HD11	44:IC:252:ILE:HG13	1.49	0.93
44:IM:288:VAL:HA	44:IM:291:ILE:HG12	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:51:THR:HG21	44:MI:243:ARG:HD3	1.51	0.93
45:MN:60:VAL:HB	45:MN:86:ARG:NH1	1.83	0.93
45:OL:376:GLU:O	45:OL:380:ARG:N	2.02	0.93
44:PC:75:ILE:HG21	44:PC:94:SER:HB2	1.50	0.93
44:PE:53:PHE:HB3	44:PE:61:HIS:HB3	1.50	0.93
45:PF:253:LEU:HD21	45:PF:316:LEU:HD11	1.51	0.93
44:QC:185:TYR:OH	44:QC:403:ALA:O	1.87	0.93
45:QN:134:GLN:HB2	45:QN:167:PHE:HE1	1.33	0.93
44:SC:273:ALA:O	44:SC:375:VAL:N	2.01	0.93
44:SE:205:ASP:OD1	44:SE:303:ALA:HA	1.69	0.93
44:SI:70:LEU:HD11	44:SI:149:LEU:HD21	1.48	0.93
44:SM:232:ALA:O	44:SM:236:SER:N	2.01	0.93
45:WJ:178:THR:HG22	45:WJ:181:GLU:HG3	1.49	0.93
16:3X:48:TRP:HB3	44:MM:370:LYS:HE3	1.47	0.92
38:5G:198:PHE:N	44:LK:393:HIS:CE1	2.37	0.92
39:5K:38:HIS:HA	39:5K:41:ILE:HD12	1.50	0.92
11:5Q:95:ASP:HB3	11:5Q:146:THR:HG21	1.51	0.92
44:DA:254:GLU:HG2	45:DB:98:GLY:HA2	1.51	0.92
45:EB:64:ILE:HG21	45:EB:119:VAL:HG11	1.51	0.92
45:EJ:135:ILE:HG13	45:EJ:152:ILE:HD11	1.50	0.92
45:EL:169:VAL:HG22	45:EL:202:ILE:HB	1.51	0.92
45:NH:2:ARG:NH1	45:NH:240:LEU:O	2.02	0.92
44:NM:105:ARG:HH21	44:NM:110:ILE:HG21	1.34	0.92
45:OF:320:ARG:HH22	45:OF:355:ASP:HA	1.34	0.92
45:QH:113:ILE:HD13	45:QH:150:LEU:HD22	1.49	0.92
44:QM:91:GLN:HB3	44:QM:121:ARG:HH22	1.33	0.92
44:SM:75:ILE:HG23	44:SM:78:VAL:HB	1.51	0.92
44:TK:13:GLY:O	44:TK:17:GLY:N	2.01	0.92
44:TM:408:TYR:HB3	44:TM:413:MET:HE2	1.51	0.92
45:UF:372:THR:HA	45:UF:422:TYR:HE2	1.33	0.92
44:VG:288:VAL:HG23	44:VG:291:ILE:HD11	1.51	0.92
10:2N:162:CYS:H	45:KB:276:ARG:HE	1.07	0.92
44:FG:311:LYS:HA	44:FG:342:GLN:HE22	1.34	0.92
44:FK:105:ARG:HA	44:FK:109:THR:HB	1.50	0.92
44:GI:173:PRO:O	44:GI:304:LYS:NZ	2.02	0.92
45:GL:8:GLN:NE2	45:GL:10:GLY:O	2.01	0.92
44:GM:228:ASN:O	44:GM:232:ALA:N	2.00	0.92
45:HN:267:MET:O	45:HN:369:GLY:N	2.02	0.92
44:IK:66:VAL:HG11	44:IK:122:ILE:HD11	1.51	0.92
45:JH:83:GLN:O	45:KH:281:TYR:OH	1.86	0.92
44:OE:34:GLY:HA3	44:OE:60:LYS:HG3	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:285:THR:HG23	45:OH:287:PRO:HD2	1.50	0.92
45:ON:159:TYR:HB3	45:ON:162:ARG:HG2	1.50	0.92
45:PD:58:ARG:HH22	45:QB:281:TYR:HA	1.29	0.92
45:PF:227:HIS:O	45:PF:230:SER:OG	1.87	0.92
45:QB:178:THR:HB	45:QB:181:GLU:HG3	1.50	0.92
45:QD:200:MET:CE	45:QD:266:PHE:HB2	1.98	0.92
45:RF:318:ARG:HD3	45:RF:358:PRO:HD3	1.51	0.92
45:SB:286:VAL:HA	45:SB:289:LEU:HB2	1.52	0.92
45:SD:316:LEU:HG	45:SD:352:SER:HB2	1.48	0.92
44:TA:284:GLU:HG3	44:TA:286:LEU:HD22	1.51	0.92
45:TF:16:ILE:HA	45:TF:19:LYS:NZ	1.85	0.92
45:TH:202:ILE:HA	45:TH:300:MET:HE3	1.51	0.92
45:VF:289:LEU:HD13	45:VF:365:VAL:HG23	1.50	0.92
44:VG:11:GLN:HG3	44:VG:74:VAL:HG21	1.49	0.92
45:VN:345:ILE:HG23	45:VN:348:ASN:HD22	1.35	0.92
45:WJ:144:GLY:N	48:WJ:502:GDP:O1B	2.01	0.92
35:5R:318:TYR:HE2	45:CJ:215:LEU:HD21	1.28	0.92
41:6G:123:LEU:HD12	41:6G:127:ILE:HD13	1.48	0.92
45:AN:135:ILE:HG13	45:AN:152:ILE:HD11	1.50	0.92
45:CF:317:PHE:HA	45:CF:365:VAL:HG22	1.49	0.92
45:EJ:113:ILE:HG21	45:EJ:150:LEU:HD22	1.52	0.92
44:GC:73:THR:HB	45:GD:247:ASN:HD22	1.32	0.92
44:GC:320:ARG:NH1	44:GC:359:PRO:O	2.02	0.92
44:GG:222:PRO:O	45:GH:322:SER:OG	1.88	0.92
45:LJ:217:LEU:HD11	45:LJ:220:PRO:HG3	1.50	0.92
45:NB:133:PHE:N	45:NB:163:ILE:O	2.01	0.92
44:OA:347:CYS:HA	45:OD:388:MET:HE1	1.50	0.92
44:OG:9:VAL:HG11	44:OG:153:LEU:HD22	1.47	0.92
44:OK:93:ILE:HG12	44:OK:117:LEU:HG	1.50	0.92
44:PA:67:PHE:HB2	44:PA:92:LEU:HA	1.50	0.92
45:QN:113:ILE:HD12	45:QN:147:MET:HG3	1.51	0.92
45:RB:256:ASN:OD1	45:RB:350:LYS:NZ	2.02	0.92
44:SC:288:VAL:HA	44:SC:291:ILE:HG12	1.51	0.92
44:SG:323:VAL:HG11	44:SG:355:ILE:HD12	1.49	0.92
44:TM:389:SER:O	44:TM:393:HIS:N	2.01	0.92
45:UH:202:ILE:HD11	45:UH:268:ILE:HD11	1.50	0.92
44:WI:179:THR:HG23	45:WJ:351:SER:HB2	1.48	0.92
37:5D:92:VAL:HG22	44:KM:309:HIS:HA	1.49	0.92
44:AA:319:TYR:HA	44:AA:375:VAL:HG22	1.52	0.92
45:CB:144:GLY:HA3	48:CB:501:GDP:O2B	1.69	0.92
45:EF:135:ILE:HB	45:EF:166:THR:HG22	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:143:THR:HB	45:FD:147:MET:HE2	1.50	0.92
45:GN:394:PHE:HA	45:GN:397:TRP:CD1	2.04	0.92
44:KK:344:VAL:O	44:KK:347:CYS:N	2.03	0.92
45:MD:286:VAL:HG21	45:MD:325:GLU:HB3	1.51	0.92
45:MN:8:GLN:NE2	45:MN:14:ASN:OD1	2.01	0.92
44:NE:259:LEU:HD11	44:NE:316:SER:HB3	1.49	0.92
44:RI:254:GLU:HG2	45:RJ:98:GLY:HA2	1.51	0.92
45:SD:99:ASN:HA	45:SD:142:GLY:H	1.33	0.92
45:SJ:302:ALA:HB3	45:SJ:377:MET:HE1	1.48	0.92
45:SJ:319:GLY:N	45:SJ:354:CYS:O	2.02	0.92
45:SN:315:ALA:HB3	45:SN:351:SER:HA	1.50	0.92
44:TG:14:ILE:HD11	44:TG:69:ASP:HB2	1.50	0.92
44:UA:91:GLN:HG3	44:UA:121:ARG:HD2	1.51	0.92
45:UJ:2:ARG:NH2	45:UJ:240:LEU:O	2.02	0.92
45:UJ:139:LEU:HD13	45:UJ:168:SER:HB3	1.48	0.92
45:VD:421:GLU:O	45:VD:424:GLN:NE2	2.02	0.92
44:BE:325:PRO:O	44:BE:328:VAL:N	2.02	0.92
45:BN:217:LEU:HD11	45:BN:220:PRO:HB3	1.48	0.92
45:EJ:322:SER:HB3	44:EK:221:ARG:HD2	1.49	0.92
45:HD:323:THR:O	45:HD:327:ASP:N	2.02	0.92
45:HJ:97:ALA:HA	45:HJ:103:LYS:HG2	1.50	0.92
45:IH:178:THR:HB	45:IH:181:GLU:HG3	1.47	0.92
44:ME:265:ILE:HD12	44:ME:432:TYR:CE1	2.05	0.92
44:ME:271:SER:OG	44:ME:377:MET:SD	2.26	0.92
45:PD:164:MET:HB3	45:PD:197:ASP:H	1.34	0.92
45:PH:296:ALA:HA	45:PH:299:MET:HE1	1.51	0.92
45:QB:252:LYS:HE3	44:QC:100:ALA:HA	1.50	0.92
44:QE:22:GLU:HA	44:QE:25:CYS:HB2	1.50	0.92
45:QH:207:LEU:HB3	45:QH:225:LEU:HD22	1.51	0.92
45:QH:266:PHE:HD1	45:QH:370:ASN:HB2	1.35	0.92
45:RD:12:CYS:HA	45:RD:15:GLN:HE21	1.31	0.92
44:TA:372:MET:HG3	44:TA:373:ARG:HG3	1.52	0.92
45:UF:6:HIS:HD1	45:UF:134:GLN:HG3	1.35	0.92
45:VH:86:ARG:HB3	45:VH:89:ASN:HB2	1.48	0.92
1:6H:266:LYS:HZ2	44:FE:364:PRO:HG2	1.23	0.92
2:2A:52:THR:HG21	35:5R:71:LYS:HB3	1.49	0.92
38:5G:34:SER:O	38:5G:35:LEU:HD22	1.69	0.92
35:6R:300:PHE:HB3	45:CN:77:ARG:NH1	1.85	0.92
45:BJ:207:LEU:HB3	45:BJ:225:LEU:HD22	1.51	0.92
44:CA:30:ILE:HA	44:CA:36:MET:HE1	1.49	0.92
45:DB:6:HIS:HE2	45:DB:8:GLN:HB3	1.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:22:GLU:HG3	44:DG:83:TYR:HE2	1.29	0.92
44:DM:132:LEU:HD11	44:DM:135:PHE:HE1	1.34	0.92
44:FE:11:GLN:HG3	44:FE:74:VAL:HG11	1.51	0.92
45:HL:117:LEU:HG	45:HL:121:ARG:HH12	1.34	0.92
44:IG:60:LYS:NZ	44:IG:85:GLN:O	2.02	0.92
44:LA:260:VAL:HG23	45:LD:397:TRP:HE1	1.34	0.92
44:LG:191:THR:HG21	44:LG:425:LEU:HD21	1.50	0.92
44:MG:262:TYR:HB3	44:MG:263:PRO:HD2	1.51	0.92
45:MJ:173:PRO:HG3	45:MJ:380:ARG:HD3	1.51	0.92
44:PG:288:VAL:HG11	44:PG:327:ASP:HB3	1.50	0.92
44:RA:258:ASN:HD21	45:RB:178:THR:HG23	1.35	0.92
44:RE:247:ALA:HB3	44:RE:355:ILE:HG21	1.51	0.92
44:SC:90:GLU:OE2	44:TC:280:LYS:NZ	2.01	0.92
45:SN:99:ASN:ND2	48:SN:501:GDP:O2A	2.01	0.92
45:TH:30:ILE:HD11	45:TH:47:ILE:HD11	1.51	0.92
45:UF:184:ASN:O	45:UF:188:SER:N	2.01	0.92
44:UM:328:VAL:HG11	44:UM:353:VAL:HG21	1.48	0.92
44:VI:14:ILE:HD11	44:VI:69:ASP:HB2	1.50	0.92
35:6R:389:ASN:H	45:EN:276:ARG:NH2	1.68	0.92
45:AL:178:THR:HB	45:AL:181:GLU:HG2	1.51	0.92
44:BA:221:ARG:NH2	45:BB:322:SER:O	2.01	0.92
45:CF:97:ALA:HB2	45:CF:143:THR:HB	1.50	0.92
44:CG:349:THR:HG23	45:CH:179:VAL:HA	1.52	0.92
44:GM:269:LEU:HD13	44:GM:303:ALA:HB3	1.50	0.92
44:HE:27:GLU:OE1	44:HE:243:ARG:NH2	2.02	0.92
45:HH:218:THR:HG23	45:HH:219:THR:HG23	1.50	0.92
44:IE:279:GLU:OE1	44:IE:280:LYS:HE2	1.68	0.92
44:JM:317:MET:HE1	44:JM:377:MET:HA	1.52	0.92
44:KK:195:LEU:HD11	44:KK:265:ILE:HG22	1.52	0.92
44:LI:14:ILE:HD11	44:LI:69:ASP:HB2	1.49	0.92
45:NF:99:ASN:HD21	45:NF:178:THR:HG23	1.29	0.92
45:PD:271:ALA:HB1	45:PD:272:PRO:HD2	1.49	0.92
44:SA:143:GLY:CA	46:SA:501:GTP:H5'	1.99	0.92
44:SI:89:PRO:HG2	44:TI:280:LYS:HG3	1.49	0.92
44:SM:124:LYS:HA	44:SM:127:ASP:HB2	1.49	0.92
44:TA:8:HIS:HD2	44:TA:138:PHE:HB2	1.34	0.92
44:TI:191:THR:HA	44:TI:194:LEU:HG	1.51	0.92
45:UN:119:VAL:HA	45:UN:122:LYS:HB2	1.50	0.92
44:VA:201:ALA:HB3	44:VA:267:PHE:HA	1.51	0.92
45:VN:286:VAL:HG23	45:VN:287:PRO:HD3	0.94	0.92
44:WA:244:PHE:HB2	44:WA:356:ASN:HD21	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:96:ALA:HB2	35:6R:62:PRO:HG3	1.49	0.92
44:AG:265:ILE:HD12	44:AG:432:TYR:HE1	1.34	0.92
44:AK:328:VAL:HG11	44:AK:353:VAL:HG21	1.49	0.92
45:BD:390:ARG:HH22	45:BD:391:ARG:HG2	1.34	0.92
45:BN:232:ALA:HB1	45:BN:268:ILE:HD12	1.50	0.92
44:CI:352:LYS:HD3	45:CJ:178:THR:HG23	1.51	0.92
45:CN:318:ARG:HH11	45:CN:358:PRO:HD3	1.34	0.92
45:FB:267:MET:N	45:FB:369:GLY:O	2.01	0.92
44:HA:237:SER:HA	44:HA:320:ARG:HH11	1.32	0.92
45:IN:318:ARG:HB2	45:IN:364:ALA:HB3	1.51	0.92
44:LA:89:PRO:HG2	44:MA:280:LYS:HG2	1.52	0.92
44:QA:284:GLU:HG3	44:QA:286:LEU:HD22	1.51	0.92
45:RN:269:GLY:N	45:RN:367:PHE:O	2.02	0.92
45:SN:87:PRO:HG3	45:TN:278:SER:HB2	1.50	0.92
45:UL:325:GLU:HA	45:UL:328:GLU:HG2	1.51	0.92
45:WB:237:THR:HG23	45:WB:241:ARG:HH11	1.35	0.92
44:WM:14:ILE:HD11	44:WM:69:ASP:HB2	1.52	0.92
1:6H:217:GLN:CG	45:FD:320:ARG:NH1	2.28	0.92
13:2T:147:PHE:HB3	45:MJ:402:GLY:HA3	1.52	0.92
44:AM:276:ILE:HD12	44:AM:281:ALA:HA	1.49	0.92
45:BL:131:GLN:HE22	45:BL:251:ARG:HG2	1.32	0.92
45:BL:178:THR:HB	45:BL:181:GLU:HG3	1.52	0.92
45:FN:413:SER:O	45:FN:417:ASP:N	2.02	0.92
44:GA:109:THR:HG22	44:GA:110:ILE:HG23	1.49	0.92
44:GE:141:VAL:HG21	44:GE:172:TYR:HD1	1.34	0.92
45:GL:101:TRP:HZ3	45:GL:187:LEU:HB3	1.33	0.92
45:IF:268:ILE:HG13	45:IF:300:MET:HG3	1.52	0.92
45:LN:83:GLN:O	45:LN:86:ARG:NH2	2.03	0.92
44:MG:210:TYR:HE1	44:MG:227:LEU:HD11	1.35	0.92
45:RF:5:VAL:HG22	45:RF:133:PHE:CD1	2.04	0.92
45:RJ:318:ARG:HB2	45:RJ:364:ALA:HB3	1.49	0.92
45:SB:19:LYS:HG2	45:SB:226:ASN:HB3	1.51	0.92
44:SE:21:TRP:O	44:SE:25:CYS:N	2.02	0.92
44:TG:320:ARG:HD2	44:TG:360:PRO:HG3	1.51	0.92
44:UE:298:PRO:HA	44:UE:301:MET:HE1	1.49	0.92
44:UG:209:ILE:HD11	44:UG:302:MET:HA	1.50	0.92
44:VG:108:TYR:HA	44:VG:112:LYS:HE3	1.52	0.92
45:VN:329:GLN:O	45:VN:333:VAL:N	2.03	0.92
22:2L:525:LEU:CD1	45:BN:320:ARG:HG2	1.99	0.92
44:DC:5:ILE:HG12	44:DC:64:ARG:HB3	1.52	0.92
45:EL:203:ASP:OD2	45:EL:302:ALA:N	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:313:ALA:N	45:EL:348:ASN:O	2.03	0.92
45:FN:139:LEU:HD23	45:FN:185:ALA:HB1	1.52	0.92
44:GM:166:LYS:N	44:GM:199:ASP:OD2	2.03	0.92
44:KG:56:THR:HB	44:KG:60:LYS:HZ1	1.33	0.92
45:LB:135:ILE:O	45:LB:167:PHE:N	2.02	0.92
44:LK:71:GLU:HG3	45:LL:247:ASN:HD21	1.35	0.92
44:NA:70:LEU:HD12	44:NA:145:THR:HG22	1.49	0.92
45:OD:110:ALA:HA	45:OD:113:ILE:HG22	1.52	0.92
45:QL:316:LEU:HB2	45:QL:366:THR:HB	1.51	0.92
44:RM:312:TYR:HB2	44:RM:343:PHE:HA	1.49	0.92
45:TB:232:ALA:HB2	45:TB:270:PHE:HB2	1.47	0.92
44:UA:258:ASN:HD21	45:UB:178:THR:HG23	1.34	0.92
44:UK:326:LYS:HE2	45:UL:220:PRO:HD2	1.52	0.92
45:UN:315:ALA:HB3	45:UN:351:SER:HA	1.50	0.92
45:VN:99:ASN:HA	45:VN:142:GLY:HA3	1.52	0.92
44:WM:220:GLU:HB2	44:WM:221:ARG:HH11	1.32	0.92
35:5R:300:PHE:HB3	35:5R:301:PRO:HD2	1.50	0.91
45:AN:3:GLU:HG3	45:AN:62:ARG:HH22	1.32	0.91
44:CA:314:ALA:O	44:CA:380:ASN:N	2.02	0.91
45:CN:372:THR:HG21	45:CN:426:GLN:HB2	1.51	0.91
44:EE:108:TYR:HA	44:EE:112:LYS:HE3	1.51	0.91
45:FN:222:TYR:O	45:FN:226:ASN:N	2.02	0.91
45:HB:149:THR:HG21	45:HB:188:SER:HB2	1.52	0.91
44:HG:91:GLN:HG2	44:HG:121:ARG:HD2	1.52	0.91
44:HK:70:LEU:HD13	44:HK:110:ILE:HD11	1.52	0.91
45:JB:3:GLU:HB2	45:JB:62:ARG:HH12	1.34	0.91
44:JK:141:VAL:HG22	44:JK:187:SER:HA	1.52	0.91
45:JL:208:TYR:HE1	45:JL:225:LEU:HD11	1.34	0.91
44:KI:14:ILE:HD11	44:KI:69:ASP:HB2	1.49	0.91
45:KL:309:ARG:CZ	45:KL:342:VAL:HA	2.00	0.91
45:OJ:133:PHE:O	45:OJ:165:GLU:N	2.02	0.91
45:RD:64:ILE:HG21	45:RD:119:VAL:HG11	1.51	0.91
45:RF:7:ILE:HG12	45:RF:64:ILE:HB	1.52	0.91
44:SI:156:ARG:HA	44:SI:159:VAL:HG22	1.51	0.91
44:SI:188:ILE:HD12	44:SI:425:LEU:HD11	1.50	0.91
44:SK:271:SER:HB2	44:SK:301:MET:HA	1.51	0.91
45:TH:2:ARG:HB3	44:TI:72:PRO:HB2	1.52	0.91
45:UB:237:THR:HG23	45:UB:241:ARG:HH22	1.35	0.91
45:UD:309:ARG:N	45:UD:372:THR:OG1	2.03	0.91
45:UH:135:ILE:HG13	45:UH:152:ILE:HD11	1.51	0.91
44:UM:240:ALA:HB1	44:UM:356:ASN:HD22	1.30	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:91:GLN:HE22	44:VE:125:LEU:HD11	1.34	0.91
44:AE:245:ASP:OD1	44:AE:246:GLY:N	2.02	0.91
45:AN:54:ALA:HA	45:BN:283:ALA:HB2	1.50	0.91
44:BA:407:TRP:CZ3	45:BB:255:VAL:CG2	2.53	0.91
44:CG:352:LYS:NZ	45:CH:178:THR:HA	1.85	0.91
44:CI:134:GLY:HA2	44:CI:164:LYS:HE3	1.49	0.91
44:DC:348:PRO:HG2	45:DD:384:GLN:HG3	1.49	0.91
44:EM:191:THR:HG21	44:EM:425:LEU:HD21	1.50	0.91
45:FJ:136:THR:HG22	45:FJ:167:PHE:HB2	1.50	0.91
44:GK:105:ARG:HA	44:GK:109:THR:HB	1.49	0.91
45:IF:86:ARG:NH2	44:JC:280:LYS:HA	1.85	0.91
44:KA:166:LYS:NZ	44:KA:197:HIS:O	2.01	0.91
44:KI:54:SER:HB3	44:KI:64:ARG:HE	1.31	0.91
44:OK:311:LYS:HD2	44:OK:342:GLN:HG3	1.51	0.91
45:SD:325:GLU:O	45:SD:329:GLN:NE2	2.03	0.91
45:VF:60:VAL:HG21	45:VF:86:ARG:HG3	1.52	0.91
44:VI:291:ILE:HD13	44:VI:373:ARG:HB3	1.51	0.91
44:WA:115:VAL:HG21	44:WA:152:LEU:HD23	1.50	0.91
16:0X:30:GLU:HA	45:MD:217:LEU:HG	1.49	0.91
35:5R:107:PRO:HA	45:BL:360:GLY:HA3	1.49	0.91
44:AG:259:LEU:HD11	44:AG:316:SER:HB3	1.51	0.91
44:BM:31:GLN:CG	44:BM:32:PRO:HD2	2.00	0.91
44:CC:156:ARG:O	44:CC:160:ASP:N	2.04	0.91
45:FN:330:MET:HA	45:FN:333:VAL:HG12	1.53	0.91
44:GA:222:PRO:HD2	45:GB:324:LYS:HZ3	1.33	0.91
45:GB:404:ASP:N	45:GB:407:GLU:OE2	2.04	0.91
45:GD:61:PRO:HG3	45:GD:84:LEU:HB3	1.50	0.91
44:GK:2:ARG:HH22	45:GN:70:PRO:HD2	1.33	0.91
44:JI:135:PHE:HB2	44:JI:166:LYS:HG2	1.52	0.91
44:NC:294:SER:HA	44:NC:297:GLU:HG3	1.52	0.91
45:ND:203:ASP:OD2	45:ND:302:ALA:N	2.03	0.91
45:QB:8:GLN:NE2	45:QB:13:GLY:O	2.03	0.91
45:RD:117:LEU:HD22	45:RD:154:LYS:HD2	1.50	0.91
44:RE:288:VAL:HA	44:RE:291:ILE:HG12	1.52	0.91
45:TH:55:THR:HG21	45:UH:284:LEU:HB2	1.51	0.91
45:UH:319:GLY:HA2	45:UH:357:PRO:HG3	1.50	0.91
44:WI:66:VAL:HG11	44:WI:122:ILE:HD11	1.51	0.91
22:1L:658:ARG:HD2	44:BE:80:THR:HB	1.51	0.91
37:5B:138:ARG:HH12	45:NH:362:LYS:HD2	1.32	0.91
35:7R:242:ASN:HB2	44:BA:57:GLY:HA3	1.53	0.91
35:7R:337:GLY:HA2	35:7R:371:ILE:HD11	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:256:ASN:HD22	45:AD:350:LYS:HD2	1.35	0.91
45:AH:100:ASN:HD22	45:AH:103:LYS:HB2	1.36	0.91
45:DD:372:THR:HA	45:DD:422:TYR:HE2	1.35	0.91
44:DG:70:LEU:HD13	44:DG:110:ILE:HD12	1.52	0.91
45:DN:99:ASN:HA	45:DN:142:GLY:H	1.35	0.91
44:EM:311:LYS:O	44:EM:382:THR:N	2.04	0.91
45:FH:286:VAL:HG13	45:FH:326:VAL:HG22	1.49	0.91
44:GE:269:LEU:HD23	44:GE:384:ILE:HD13	1.49	0.91
44:HK:226:ASN:HA	44:HK:229:ARG:HH12	1.34	0.91
45:ID:42:LEU:HD22	45:ID:356:ILE:HD11	1.53	0.91
44:KA:101:ASN:HD21	45:KB:252:LYS:HE3	1.35	0.91
44:LA:188:ILE:HD12	44:LA:425:LEU:HD11	1.51	0.91
45:ND:248:SER:HA	45:ND:252:LYS:HD3	1.51	0.91
44:NG:71:GLU:HG3	44:NG:98:ASP:HB2	1.53	0.91
44:NG:191:THR:HG21	44:NG:425:LEU:HD21	1.52	0.91
44:PG:93:ILE:HG12	44:PG:117:LEU:HD22	1.52	0.91
44:PI:64:ARG:NH1	44:PI:129:CYS:SG	2.43	0.91
45:RB:316:LEU:HB2	45:RB:366:THR:HB	1.49	0.91
45:RL:260:PHE:HB3	45:RL:261:PRO:HD2	1.50	0.91
44:SK:11:GLN:HG3	44:SK:74:VAL:HG11	1.52	0.91
44:TG:295:ALA:HB1	44:TG:377:MET:HE2	1.49	0.91
45:UH:113:ILE:O	45:UH:117:LEU:N	2.02	0.91
44:WI:51:THR:HG21	44:WI:243:ARG:HD3	1.51	0.91
22:2L:494:GLU:OE2	35:6R:218:ILE:HG23	1.61	0.91
35:6R:436:GLU:CD	45:FN:280:GLN:HG3	1.87	0.91
44:AA:76:ASP:OD2	45:AB:46:ARG:NH2	2.03	0.91
44:AI:328:VAL:HG11	44:AI:353:VAL:HG21	1.48	0.91
44:CE:328:VAL:HG11	44:CE:353:VAL:HG21	1.51	0.91
45:CL:100:ASN:HD22	45:CL:103:LYS:HB2	1.33	0.91
45:CL:350:LYS:HA	45:CL:350:LYS:HE3	1.53	0.91
44:EE:21:TRP:O	44:EE:25:CYS:N	2.02	0.91
45:EF:325:GLU:OE1	44:EG:221:ARG:NH1	2.04	0.91
45:EN:312:THR:HA	45:EN:348:ASN:HB2	1.52	0.91
44:FE:237:SER:HA	44:FE:320:ARG:HH11	1.36	0.91
44:FK:175:PRO:HD3	44:FK:304:LYS:HD3	1.50	0.91
45:FN:86:ARG:HE	45:FN:87:PRO:HD2	1.35	0.91
45:FN:289:LEU:HD11	45:FN:363:MET:HB3	1.52	0.91
45:GB:421:GLU:HA	45:GB:424:GLN:HB3	1.52	0.91
44:GI:284:GLU:HG3	44:GI:286:LEU:HD22	1.52	0.91
45:GJ:202:ILE:HD11	45:GJ:268:ILE:HD11	1.50	0.91
44:GM:30:ILE:HA	44:GM:36:MET:HE1	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HL:313:ALA:O	45:HL:350:LYS:N	2.03	0.91
44:IG:173:PRO:HG2	44:IG:391:LEU:HD11	1.53	0.91
44:KE:254:GLU:HA	44:KE:257:THR:HG22	1.49	0.91
44:KM:188:ILE:HG22	44:KM:421:ALA:HB1	1.53	0.91
45:MN:178:THR:HB	45:MN:181:GLU:HG3	1.51	0.91
45:ND:114:ASP:HA	45:ND:117:LEU:HD12	1.51	0.91
45:NH:330:MET:HE3	45:NH:349:ILE:HG22	1.53	0.91
44:NK:185:TYR:HE2	44:NK:404:PHE:HB2	1.36	0.91
44:OI:204:LEU:HD13	44:OI:231:ILE:HD11	1.50	0.91
45:PF:231:ALA:O	45:PF:235:GLY:N	2.04	0.91
44:RC:102:ASN:OD1	44:RC:105:ARG:N	2.02	0.91
44:RC:141:VAL:HG22	44:RC:187:SER:HA	1.49	0.91
44:TC:169:PHE:HB3	44:TC:204:LEU:HD11	1.50	0.91
44:TC:317:MET:HE1	44:TC:351:PHE:HA	1.50	0.91
44:TI:98:ASP:O	44:TI:105:ARG:NH1	2.03	0.91
44:VC:68:LEU:HD22	44:VC:120:ASP:HA	1.52	0.91
9:1H:304:ALA:HA	44:HC:282:TYR:CD2	2.06	0.91
22:3L:45:ARG:NH2	45:BB:362:LYS:HB2	1.86	0.91
35:6R:118:LEU:HD13	35:6R:129:VAL:HG23	0.92	0.91
35:6R:323:LEU:HD11	45:CN:276:ARG:HD2	1.49	0.91
35:6R:446:PHE:CE1	35:6R:487:GLU:HG2	2.05	0.91
44:AE:51:THR:HG21	44:AE:243:ARG:HD3	1.52	0.91
44:CA:213:CYS:HA	44:CA:217:LEU:HB2	1.50	0.91
44:CE:420:GLU:O	44:CE:423:GLU:HG2	1.70	0.91
44:CM:320:ARG:HG3	44:CM:374:ALA:HB3	1.50	0.91
45:DD:113:ILE:HD13	45:DD:150:LEU:HD22	1.52	0.91
45:DH:178:THR:HB	45:DH:181:GLU:HG3	1.52	0.91
45:FB:207:LEU:HB3	45:FB:225:LEU:HD22	1.53	0.91
45:FD:253:LEU:HD21	45:FD:316:LEU:HD21	1.50	0.91
45:FJ:322:SER:HB2	45:FJ:325:GLU:HB2	1.52	0.91
44:GM:100:ALA:HB1	45:GN:252:LYS:HB2	1.52	0.91
44:HE:326:LYS:HG3	45:HH:220:PRO:HG2	1.53	0.91
45:IN:245:GLN:HB2	45:IN:353:ILE:HB	1.51	0.91
45:JL:3:GLU:HG3	45:JL:62:ARG:HH12	1.35	0.91
44:KI:264:ARG:NH1	44:KI:431:ASP:OD2	2.04	0.91
44:LE:22:GLU:OE1	44:LE:83:TYR:OH	1.88	0.91
44:LG:66:VAL:HG11	44:LG:122:ILE:HD11	1.53	0.91
44:LG:254:GLU:HG2	45:LJ:98:GLY:HA2	1.52	0.91
44:LM:217:LEU:HD13	44:LM:277:SER:HB3	1.50	0.91
44:NA:261:PRO:HA	45:ND:394:PHE:HE1	1.34	0.91
44:NG:242:LEU:HD21	44:NG:252:ILE:HG13	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:318:ARG:HH11	45:NN:358:PRO:HD3	1.33	0.91
44:UC:6:SER:OG	44:UC:64:ARG:O	1.88	0.91
45:WN:156:ARG:NE	45:WN:164:MET:HG3	1.86	0.91
19:II:88:THR:HG22	45:JD:42:LEU:HD21	1.50	0.91
20:1J:263:PHE:CZ	44:II:282:TYR:CD2	2.59	0.91
25:1P:193:MET:SD	45:TH:279:GLN:NE2	2.44	0.91
5:2D:99:ARG:HH21	44:EK:364:PRO:HA	1.29	0.91
22:2L:357:ILE:HG21	35:6R:102:SER:OG	1.10	0.91
31:3H:199:GLU:OE1	45:AH:245:GLN:NE2	2.03	0.91
37:5D:46:ILE:CD1	44:KK:435:VAL:HB	1.99	0.91
40:6F:124:ARG:O	40:6F:128:THR:N	2.03	0.91
35:6R:103:VAL:CG1	35:6R:110:ASN:O	2.19	0.91
35:6R:249:LEU:CG	44:CM:370:LYS:NZ	2.33	0.91
44:AA:319:TYR:HB2	44:AA:355:ILE:HD13	1.51	0.91
45:AF:239:CYS:HB3	45:AF:354:CYS:HB2	1.51	0.91
44:CA:60:LYS:NZ	44:CA:85:GLN:O	2.03	0.91
45:CH:218:THR:HG23	45:CH:219:THR:HG23	1.51	0.91
44:DK:295:ALA:HB1	44:DK:377:MET:HE1	1.53	0.91
44:DM:350:GLY:HA2	45:DN:179:VAL:HG12	1.50	0.91
44:EK:188:ILE:HD12	44:EK:425:LEU:HD11	1.53	0.91
44:FA:239:THR:HB	44:FA:242:LEU:HD12	1.51	0.91
45:FD:203:ASP:OD2	45:FD:302:ALA:N	2.03	0.91
44:FM:284:GLU:HG3	44:FM:286:LEU:HD22	1.53	0.91
45:FN:156:ARG:HD3	45:FN:164:MET:HG3	1.51	0.91
44:GG:211:ASP:HB3	44:GG:215:ARG:HH12	1.35	0.91
45:JL:31:ASP:O	45:JL:34:GLY:N	2.04	0.91
45:KB:228:LEU:HD11	45:KB:273:LEU:HD11	1.50	0.91
44:LI:22:GLU:OE1	44:LI:83:TYR:OH	1.87	0.91
45:MH:426:GLN:NE2	45:MH:427:ASP:OD2	2.04	0.91
44:NA:224:TYR:HA	44:NA:227:LEU:HD13	1.52	0.91
44:NM:105:ARG:HG3	45:NN:251:ARG:HH22	1.32	0.91
44:NM:276:ILE:HB	44:NM:369:ALA:HB3	1.53	0.91
44:PC:70:LEU:HD12	44:PC:99:ALA:HB2	1.52	0.91
44:QC:131:GLY:O	44:QC:133:GLN:NE2	2.03	0.91
45:QH:19:LYS:O	45:QH:23:VAL:N	2.02	0.91
45:RD:268:ILE:HG22	45:RD:368:VAL:HA	1.53	0.91
44:RG:287:SER:HB3	44:RG:290:GLU:HG2	1.52	0.91
45:RH:268:ILE:HG13	45:RH:300:MET:HB3	1.53	0.91
44:TE:171:ILE:HG12	44:TE:204:LEU:HB2	1.51	0.91
44:TG:70:LEU:HD22	44:TG:110:ILE:HD12	1.52	0.91
45:TN:178:THR:HB	45:TN:181:GLU:HG3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:372:THR:HA	45:UD:422:TYR:HE2	1.34	0.91
45:UJ:268:ILE:HG22	45:UJ:368:VAL:HG22	1.52	0.91
26:1R:260:LYS:HD2	44:CC:41:THR:HG21	1.52	0.91
26:2R:97:ARG:HG2	44:AG:42:ILE:HD11	1.49	0.91
45:AB:85:PHE:HB3	45:AB:90:PHE:HZ	1.35	0.91
45:AB:358:PRO:HG3	45:AB:364:ALA:HB2	1.53	0.91
44:BA:407:TRP:HH2	45:BB:254:ALA:C	1.75	0.91
45:DB:135:ILE:O	45:DB:167:PHE:N	2.02	0.91
44:EG:177:VAL:N	44:EG:207:GLU:OE2	2.03	0.91
45:EL:317:PHE:N	45:EL:352:SER:O	2.04	0.91
45:FN:66:MET:HE2	45:FN:116:VAL:HG21	1.52	0.91
44:GG:66:VAL:HG21	44:GG:122:ILE:HD11	1.53	0.91
44:HA:14:ILE:HD11	44:HA:69:ASP:HB2	1.53	0.91
45:JN:376:GLU:HA	45:JN:379:LYS:HE2	1.53	0.91
45:KF:152:ILE:HG23	45:KF:164:MET:HE1	1.50	0.91
44:KI:398:MET:CE	45:KJ:346:PRO:HD2	2.01	0.91
44:LK:37:PRO:O	44:LK:40:LYS:CG	2.16	0.91
44:LK:60:LYS:NZ	44:MK:283:HIS:CE1	2.38	0.91
45:OD:214:THR:O	45:OD:275:SER:OG	1.89	0.91
45:ON:29:GLY:O	45:ON:37:HIS:N	2.03	0.91
45:QB:309:ARG:NH2	45:QB:426:GLN:O	2.03	0.91
44:RG:67:PHE:HB2	44:RG:92:LEU:HG	1.49	0.91
44:RI:275:ILE:HA	44:RI:368:LEU:HD11	1.50	0.91
45:RL:268:ILE:HG22	45:RL:368:VAL:HA	1.52	0.91
44:SA:314:ALA:O	44:SA:380:ASN:N	2.04	0.91
44:SM:284:GLU:OE1	44:SM:286:LEU:N	2.03	0.91
45:TH:106:TYR:HE2	45:TH:403:MET:HB2	1.35	0.91
45:UD:309:ARG:H	45:UD:372:THR:HG1	1.07	0.91
45:UH:345:ILE:HA	44:UI:398:MET:HE3	1.52	0.91
45:VD:210:ILE:HD13	45:VD:228:LEU:HD11	1.49	0.91
44:VG:288:VAL:HA	44:VG:291:ILE:HG12	1.51	0.91
1:6H:268:MET:CE	44:FE:26:LEU:HD11	2.00	0.91
5:1D:166:ARG:N	45:EF:41:ASP:OD2	2.04	0.91
38:5G:123:ARG:HD2	44:OI:372:MET:HE3	1.53	0.91
35:6R:80:ARG:NH2	44:MM:36:MET:O	2.03	0.91
45:AH:91:VAL:HG21	45:AH:116:VAL:HG22	1.53	0.91
45:DJ:258:ILE:HB	44:DK:407:TRP:CH2	2.06	0.91
44:DM:147:SER:O	44:DM:151:SER:N	2.04	0.91
44:EA:319:TYR:HB2	44:EA:355:ILE:HA	1.50	0.91
45:HB:286:VAL:HB	45:HB:287:PRO:HD3	1.53	0.91
45:HJ:318:ARG:HB3	45:HJ:358:PRO:HD3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:407:TRP:HZ3	45:HN:255:VAL:HG22	1.34	0.91
44:IM:222:PRO:HD2	45:IN:324:LYS:HD2	1.51	0.91
44:KA:56:THR:HA	44:LA:285:GLN:HG2	1.51	0.91
45:LB:278:SER:HA	45:LB:281:TYR:HB3	1.52	0.91
44:NE:223:THR:HA	45:NF:323:THR:HG22	1.52	0.91
44:QE:284:GLU:HG3	44:QE:286:LEU:HD22	1.53	0.91
45:QF:130:LEU:HD13	45:QF:162:ARG:HD2	1.53	0.91
45:RB:248:SER:HA	45:RB:252:LYS:HD2	1.50	0.91
44:RE:314:ALA:HB3	44:RE:380:ASN:HB3	1.52	0.91
44:SA:228:ASN:HA	44:SA:231:ILE:HD12	1.53	0.91
45:SB:5:VAL:HG12	45:SB:62:ARG:HD3	1.53	0.91
44:SC:316:SER:N	44:SC:378:ILE:O	2.03	0.91
45:SH:316:LEU:HG	45:SH:352:SER:HB2	1.53	0.91
45:UJ:211:CYS:HB2	45:UJ:217:LEU:HD21	1.50	0.91
44:VM:321:GLY:N	44:VM:356:ASN:O	2.03	0.91
44:WA:254:GLU:HG2	45:WD:98:GLY:HA2	1.53	0.91
45:WD:99:ASN:HB3	45:WD:180:VAL:HG11	1.50	0.91
45:WF:163:ILE:HD13	45:WF:251:ARG:HD2	1.52	0.91
37:5D:108:ARG:N	44:NM:279:GLU:N	2.19	0.91
35:6R:389:ASN:H	45:EN:276:ARG:HH22	1.19	0.91
45:AL:257:LEU:HD21	45:AL:314:SER:HB2	1.52	0.91
45:CB:10:GLY:O	45:CB:14:ASN:N	2.03	0.91
45:CL:251:ARG:HA	45:CL:254:ALA:HB3	1.52	0.91
44:CM:135:PHE:HB2	44:CM:166:LYS:HG2	1.52	0.91
45:DN:309:ARG:NH2	45:DN:426:GLN:O	2.04	0.91
45:EN:268:ILE:O	45:EN:300:MET:N	2.03	0.91
44:FI:423:GLU:O	44:FI:427:ALA:N	2.04	0.91
44:IA:414:GLU:HB2	44:IA:417:GLU:HG2	1.53	0.91
45:LB:44:LEU:HD23	45:LB:47:ILE:HG21	1.51	0.91
45:MH:178:THR:HB	45:MH:181:GLU:HG3	1.52	0.91
44:NC:11:GLN:NE2	45:ND:245:GLN:O	2.03	0.91
45:NF:11:GLN:HB2	45:NF:72:THR:HG21	1.52	0.91
44:NM:291:ILE:HD12	44:NM:375:VAL:HB	1.51	0.91
44:OA:224:TYR:HE2	45:OB:246:LEU:HD11	1.35	0.91
45:OJ:320:ARG:NH1	45:OJ:355:ASP:O	2.04	0.91
44:QE:254:GLU:HG2	45:QF:98:GLY:HA2	1.52	0.91
44:RC:209:ILE:HA	44:RC:212:ILE:HD13	1.53	0.91
45:SB:278:SER:HA	45:SB:281:TYR:HD2	1.34	0.91
45:SL:372:THR:HA	45:SL:422:TYR:HE2	1.36	0.91
44:TG:203:MET:SD	44:TG:267:PHE:HB3	2.10	0.91
45:TN:317:PHE:HB2	45:TN:353:ILE:HG13	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:68:LEU:HD12	45:VD:93:GLY:HA3	1.53	0.91
44:VG:326:LYS:HE2	45:VJ:219:THR:HG22	1.52	0.91
44:WA:408:TYR:HB3	44:WA:413:MET:HE2	1.53	0.91
19:1I:11:TYR:HD1	45:ID:53:GLU:HB2	1.31	0.90
22:2L:483:TYR:OH	35:6R:223:PRO:HG3	1.71	0.90
44:AI:404:PHE:HE2	45:AJ:259:PRO:HA	1.34	0.90
45:DH:296:ALA:HA	45:DH:299:MET:HE1	1.52	0.90
44:DI:36:MET:HG2	44:DI:37:PRO:HD2	1.51	0.90
45:EF:320:ARG:HH12	45:EF:357:PRO:HD3	1.36	0.90
45:FB:21:TRP:O	45:FB:25:SER:N	2.04	0.90
44:GE:112:LYS:NZ	44:GE:113:GLU:OE2	2.04	0.90
45:GF:372:THR:HA	45:GF:422:TYR:HE2	1.33	0.90
45:HB:130:LEU:HD11	45:HB:133:PHE:HE1	1.34	0.90
45:IB:313:ALA:HB3	45:IB:349:ILE:HA	1.54	0.90
45:JJ:67:ASP:OD1	45:JJ:68:LEU:N	2.04	0.90
45:JN:14:ASN:HD21	45:JN:72:THR:HG22	1.36	0.90
45:JN:199:CYS:O	45:JN:266:PHE:N	2.04	0.90
44:KK:14:ILE:HD11	44:KK:69:ASP:HB2	1.51	0.90
45:LD:267:MET:CB	45:LD:299:MET:HE2	2.02	0.90
44:LG:123:ARG:HH22	44:MG:338:LYS:HE3	1.32	0.90
45:LJ:58:ARG:NH1	45:MJ:280:GLN:HB2	1.87	0.90
45:MD:286:VAL:HG23	45:MD:287:PRO:HD3	1.53	0.90
44:MG:14:ILE:HD11	44:MG:69:ASP:HB2	1.52	0.90
45:MH:91:VAL:HG21	45:MH:116:VAL:HG22	1.54	0.90
44:MK:174:SER:HB3	44:MK:207:GLU:HG2	1.52	0.90
44:MM:316:SER:HA	44:MM:352:LYS:HG3	1.53	0.90
44:SC:258:ASN:HB3	44:SC:352:LYS:HE3	1.52	0.90
45:SF:67:ASP:HB3	45:SF:73:MET:HE2	1.53	0.90
45:SJ:237:THR:HG23	45:SJ:241:ARG:HH21	1.36	0.90
45:SL:319:GLY:N	45:SL:354:CYS:O	2.04	0.90
45:TF:200:MET:HE3	45:TF:268:ILE:HG12	1.53	0.90
45:UL:97:ALA:HB3	45:UL:143:THR:HB	1.50	0.90
44:VC:254:GLU:HG2	45:VF:98:GLY:HA2	1.53	0.90
44:VI:240:ALA:HB1	44:VI:356:ASN:HD22	1.32	0.90
16:3X:86:ASP:OD2	35:6R:46:GLU:HG2	1.71	0.90
44:AC:2:ARG:HB2	44:AC:133:GLN:HG2	1.52	0.90
44:BC:271:SER:HB2	44:BC:377:MET:HG2	1.52	0.90
45:EF:207:LEU:HD13	45:EF:225:LEU:HB3	1.53	0.90
45:FL:5:VAL:HG12	45:FL:62:ARG:HD3	1.53	0.90
44:FM:100:ALA:HB1	45:FN:252:LYS:HA	1.52	0.90
45:GF:330:MET:HE3	45:GF:349:ILE:HD11	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:163:ILE:HD13	45:GL:251:ARG:HG3	1.51	0.90
44:HA:205:ASP:OD2	44:HA:304:LYS:N	2.02	0.90
45:HB:388:MET:HG3	45:HB:393:ALA:HB3	1.52	0.90
44:HE:102:ASN:HB3	44:HE:105:ARG:HG3	1.53	0.90
45:HF:173:PRO:HG3	45:HF:380:ARG:HD3	1.51	0.90
45:IB:135:ILE:N	45:IB:165:GLU:O	2.03	0.90
45:ID:218:THR:HG23	45:ID:219:THR:HG23	1.53	0.90
44:LM:319:TYR:N	44:LM:354:GLY:O	2.03	0.90
45:MN:42:LEU:HA	45:MN:45:GLU:HG3	1.53	0.90
44:OG:259:LEU:HD21	44:OG:316:SER:HB2	1.50	0.90
44:OM:71:GLU:OE1	44:OM:73:THR:OG1	1.90	0.90
44:RI:88:HIS:HE1	44:RI:90:GLU:HG2	1.36	0.90
44:SK:288:VAL:HA	44:SK:291:ILE:HG12	1.53	0.90
45:SL:276:ARG:NH1	45:SL:279:GLN:OE1	2.03	0.90
45:TF:139:LEU:N	45:TF:169:VAL:O	2.04	0.90
44:TI:68:LEU:HD21	44:TI:118:CYS:HB2	1.51	0.90
44:UG:402:ARG:HB3	44:UG:405:VAL:HG21	1.53	0.90
45:VD:178:THR:HG22	45:VD:180:VAL:HG12	1.50	0.90
44:VE:49:PHE:HB2	44:VE:53:PHE:HB2	1.51	0.90
44:VG:288:VAL:HG11	44:VG:327:ASP:HB3	1.51	0.90
44:WE:54:SER:OG	44:WE:64:ARG:NH1	2.04	0.90
45:WF:207:LEU:HB3	45:WF:225:LEU:HD22	1.52	0.90
44:WM:140:SER:HA	44:WM:171:ILE:HB	1.53	0.90
25:1P:391:ARG:HG2	44:TA:370:LYS:HE3	1.51	0.90
37:5D:55:ALA:HA	45:KN:391:ARG:HH12	1.36	0.90
37:5D:107:TYR:C	44:NM:280:LYS:H	1.74	0.90
45:BF:286:VAL:HG12	45:BF:287:PRO:HD3	1.54	0.90
45:BH:97:ALA:HB3	45:BH:143:THR:HG22	1.52	0.90
45:BJ:152:ILE:HG23	45:BJ:164:MET:CE	2.01	0.90
45:BN:316:LEU:HD23	45:BN:352:SER:HB2	1.53	0.90
45:CB:207:LEU:HB3	45:CB:225:LEU:HD22	1.51	0.90
45:CH:248:SER:HA	45:CH:252:LYS:HD2	1.54	0.90
45:DB:213:ARG:HH11	45:DB:214:THR:HG22	1.36	0.90
44:DE:66:VAL:HG21	44:DE:121:ARG:HG2	1.51	0.90
45:DJ:178:THR:HB	45:DJ:181:GLU:HG3	1.53	0.90
44:FE:286:LEU:HD23	44:FE:371:VAL:HG21	1.51	0.90
45:FL:237:THR:HG23	45:FL:240:LEU:HB3	1.53	0.90
45:GN:396:HIS:HA	45:GN:399:THR:CG2	2.00	0.90
45:HJ:101:TRP:CZ3	45:HJ:187:LEU:HB3	2.07	0.90
45:JL:139:LEU:HD13	45:JL:168:SER:HB3	1.54	0.90
44:NM:223:THR:N	44:NM:226:ASN:OD1	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:294:SER:HA	44:NM:297:GLU:HG3	1.51	0.90
44:OA:27:GLU:OE1	44:OA:243:ARG:NH2	2.04	0.90
45:OJ:113:ILE:HG12	45:OJ:117:LEU:HD23	1.52	0.90
45:PB:86:ARG:NE	45:PB:87:PRO:HD2	1.86	0.90
44:RG:226:ASN:ND2	44:RG:367:ASP:OD2	2.04	0.90
45:RJ:63:ALA:O	45:RJ:89:ASN:ND2	2.05	0.90
44:SK:133:GLN:HB3	44:SK:252:ILE:HD12	1.54	0.90
45:SN:315:ALA:O	45:SN:352:SER:N	2.04	0.90
45:TL:304:ASP:HB3	45:TL:307:HIS:HB2	1.53	0.90
45:UN:260:PHE:HB2	45:UN:263:LEU:HD13	1.50	0.90
45:VH:278:SER:HA	45:VH:281:TYR:CD2	2.06	0.90
45:VJ:20:PHE:HE1	45:VJ:233:MET:HB3	1.35	0.90
44:WC:278:ALA:HB2	44:WC:369:ALA:HB2	1.53	0.90
22:1L:153:LEU:HB2	45:CH:362:LYS:CE	2.01	0.90
5:2D:49:LYS:HE3	45:DJ:53:GLU:HB3	1.52	0.90
12:3S:20:ASN:HB3	45:WN:77:ARG:HH12	1.37	0.90
37:5A:127:GLU:HB3	45:ND:276:ARG:HH12	1.36	0.90
11:6Q:115:LYS:CE	44:AM:264:ARG:HD3	2.01	0.90
44:BM:394:LYS:NZ	45:BN:346:PRO:HG2	1.85	0.90
44:DA:377:MET:SD	44:DA:379:SER:OG	2.30	0.90
44:EA:63:PRO:HG3	44:EA:86:LEU:HG	1.50	0.90
45:FN:240:LEU:HD13	45:FN:250:LEU:HD23	1.51	0.90
45:GH:139:LEU:HD12	45:GH:188:SER:HB2	1.50	0.90
45:ID:139:LEU:HD13	45:ID:168:SER:HB3	1.51	0.90
45:JF:91:VAL:HG11	45:JF:116:VAL:HB	1.51	0.90
44:KK:269:LEU:HB2	44:KK:301:MET:HE2	1.50	0.90
44:ME:276:ILE:HG23	44:ME:281:ALA:HB1	1.53	0.90
44:NA:271:SER:HB2	44:NA:377:MET:HB2	1.53	0.90
44:NM:210:TYR:O	44:NM:214:ARG:N	2.04	0.90
45:OD:236:VAL:HG13	45:OD:237:THR:HG23	1.53	0.90
44:OM:407:TRP:HZ3	45:ON:255:VAL:HA	1.36	0.90
45:ON:203:ASP:OD2	45:ON:302:ALA:N	2.04	0.90
45:PN:253:LEU:HD21	45:PN:316:LEU:HD21	1.54	0.90
44:QI:352:LYS:HE3	45:QJ:178:THR:HA	1.54	0.90
45:QN:42:LEU:HA	45:QN:45:GLU:HG3	1.53	0.90
44:RK:75:ILE:HG13	44:RK:94:SER:HB2	1.53	0.90
45:RL:70:PRO:O	45:RL:74:ASP:N	2.02	0.90
45:SN:237:THR:HG23	45:SN:241:ARG:HE	1.37	0.90
45:TH:67:ASP:HB3	45:TH:72:THR:HG21	1.49	0.90
45:WB:60:VAL:HG21	45:WB:86:ARG:HB2	1.54	0.90
45:WB:81:PHE:HB3	45:WB:84:LEU:HD13	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:51:THR:HG21	44:WC:243:ARG:HD3	1.52	0.90
27:2W:239:ARG:HH21	35:6R:5:LEU:HB3	1.30	0.90
12:3S:17:LYS:HE3	45:WN:92:PHE:HE1	1.33	0.90
35:6R:29:GLN:OE1	44:LK:1:MET:N	2.04	0.90
44:AK:276:ILE:HD13	44:AK:281:ALA:HA	1.53	0.90
45:CD:60:VAL:HG23	45:CD:86:ARG:HH11	1.36	0.90
44:DI:344:VAL:HG11	44:DI:347:CYS:HB3	1.51	0.90
44:DK:108:TYR:HA	44:DK:112:LYS:HE3	1.53	0.90
44:DK:311:LYS:CE	44:DK:344:VAL:HA	2.02	0.90
44:EK:292:THR:HG21	44:EK:331:SER:HB3	1.54	0.90
45:FB:214:THR:HG22	45:FB:297:LYS:HE2	1.54	0.90
45:FH:31:ASP:O	45:FH:34:GLY:N	2.04	0.90
44:IK:76:ASP:OD1	44:IK:79:ARG:NH1	2.04	0.90
45:IN:73:MET:HA	45:IN:76:VAL:HG12	1.50	0.90
44:KC:239:THR:HG23	44:KC:242:LEU:HD12	1.53	0.90
44:KI:398:MET:HE2	45:KJ:346:PRO:HD2	1.54	0.90
45:KN:412:GLU:O	45:KN:416:ASN:N	2.02	0.90
45:MH:174:LYS:HD2	45:MH:175:VAL:HG13	1.52	0.90
44:MM:311:LYS:N	44:MM:382:THR:OG1	2.04	0.90
44:NC:10:GLY:O	44:NC:14:ILE:N	2.05	0.90
44:NG:55:GLU:HG3	44:NG:57:GLY:H	1.36	0.90
45:NH:153:SER:HB2	45:NH:191:GLN:HE21	1.37	0.90
44:OI:11:GLN:HG3	44:OI:74:VAL:HG11	1.54	0.90
44:PK:323:VAL:HA	44:PK:373:ARG:HH22	1.36	0.90
44:QE:208:ALA:O	44:QE:212:ILE:N	2.03	0.90
45:QL:246:LEU:HD11	44:QM:224:TYR:HE2	1.35	0.90
45:SB:23:VAL:HG11	45:SB:231:ALA:HA	1.52	0.90
44:SC:325:PRO:HG2	45:SD:222:TYR:CE1	2.05	0.90
45:SF:97:ALA:HB2	45:SF:143:THR:HB	1.53	0.90
44:SI:248:LEU:HD21	44:SI:353:VAL:HG23	1.54	0.90
45:SN:379:LYS:O	45:SN:383:GLU:N	2.04	0.90
45:TD:151:LEU:O	45:TD:155:VAL:N	2.04	0.90
45:TH:51:TYR:O	45:TH:62:ARG:NH2	2.05	0.90
45:UL:372:THR:HA	45:UL:422:TYR:HE2	1.32	0.90
44:UM:298:PRO:HA	44:UM:301:MET:HG2	1.54	0.90
45:WD:271:ALA:HB1	45:WD:272:PRO:HD2	1.51	0.90
3:0B:292:LEU:HD12	45:KL:273:LEU:HD21	1.50	0.90
6:3E:46:ASP:CG	35:6R:380:ARG:O	2.08	0.90
35:6R:534:HIS:ND1	35:6R:578:TYR:OH	1.97	0.90
45:AB:133:PHE:HB2	45:AB:164:MET:HE1	1.53	0.90
45:AD:252:LYS:HE2	45:AD:252:LYS:HA	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:254:GLU:HG2	45:BH:98:GLY:HA2	1.51	0.90
45:CN:48:ASN:O	45:CN:62:ARG:NH2	2.04	0.90
45:ED:116:VAL:HG22	45:ED:120:VAL:HG23	1.51	0.90
45:EF:49:VAL:HG11	45:EF:241:ARG:HG2	1.52	0.90
45:FJ:97:ALA:HA	45:FJ:103:LYS:HG2	1.54	0.90
45:FN:331:LEU:HD12	45:FN:334:GLN:HE21	1.37	0.90
44:LC:239:THR:HG23	44:LC:242:LEU:HD12	1.51	0.90
45:PF:20:PHE:CZ	45:PF:24:ILE:O	2.25	0.90
44:TE:108:TYR:O	44:TE:112:LYS:NZ	2.04	0.90
44:TE:326:LYS:HD3	45:TF:212:PHE:HZ	1.36	0.90
45:TH:259:PRO:HG2	45:TH:263:LEU:HD22	1.53	0.90
44:UM:226:ASN:ND2	44:UM:367:ASP:OD2	2.04	0.90
38:5F:180:THR:HA	38:5F:183:LYS:HE3	1.52	0.90
45:AL:316:LEU:HD23	45:AL:352:SER:HB2	1.52	0.90
44:BA:221:ARG:NH1	45:BB:325:GLU:HB3	1.85	0.90
44:CE:3:GLU:HB3	44:CE:64:ARG:HH12	1.37	0.90
45:DF:10:GLY:O	45:DF:14:ASN:N	2.05	0.90
44:DM:31:GLN:NE2	44:DM:35:GLN:OE1	2.03	0.90
45:EB:293:MET:HG3	45:EB:367:PHE:HB2	1.51	0.90
44:FC:184:PRO:HG3	44:FC:398:MET:HE3	1.54	0.90
45:FN:207:LEU:HA	45:FN:210:ILE:HD12	1.53	0.90
45:GB:73:MET:HA	45:GB:76:VAL:HG12	1.54	0.90
44:GK:76:ASP:OD1	44:GK:79:ARG:NH2	2.05	0.90
45:JF:210:ILE:HD13	45:JF:273:LEU:HD12	1.53	0.90
44:KM:276:ILE:HD11	44:KM:280:LYS:HD2	1.53	0.90
45:MB:202:ILE:HG23	45:MB:300:MET:HB3	1.52	0.90
44:MM:209:ILE:HD11	44:MM:302:MET:HG3	1.53	0.90
44:NC:240:ALA:HB1	44:NC:356:ASN:HD22	1.36	0.90
44:QK:188:ILE:HG23	44:QK:425:LEU:HD11	1.51	0.90
44:QM:256:GLN:HG2	44:QM:260:VAL:HB	1.53	0.90
44:RE:141:VAL:HG11	44:RE:172:TYR:HD1	1.36	0.90
44:RE:248:LEU:H	44:RE:355:ILE:HB	1.37	0.90
44:SM:430:LYS:O	44:SM:433:GLU:HG3	1.71	0.90
45:TJ:255:VAL:HA	44:TK:407:TRP:CZ3	2.07	0.90
44:TM:141:VAL:HG11	44:TM:172:TYR:HA	1.54	0.90
45:TN:6:HIS:HB3	45:TN:63:ALA:HB2	1.50	0.90
44:UG:105:ARG:HA	44:UG:109:THR:HG22	1.53	0.90
45:UH:1:MET:SD	45:UH:2:ARG:NH1	2.45	0.90
45:VD:372:THR:HA	45:VD:422:TYR:CE2	2.07	0.90
45:WB:86:ARG:NE	45:WB:87:PRO:HD2	1.87	0.90
11:5Q:49:ILE:HG23	11:5Q:158:ALA:HA	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6G:230:TYR:OH	44:UE:116:ASP:O	1.89	0.90
45:AB:257:LEU:HD11	45:AB:314:SER:HB2	1.52	0.90
44:BA:435:VAL:HA	45:BD:391:ARG:HH22	1.36	0.90
44:DA:153:LEU:O	44:DA:157:LEU:N	2.04	0.90
44:EC:276:ILE:HD13	44:EC:281:ALA:HA	1.52	0.90
45:ED:318:ARG:HD3	45:ED:358:PRO:HG3	1.54	0.90
45:EF:318:ARG:HH11	45:EF:358:PRO:HG3	1.36	0.90
44:GC:69:ASP:OD1	44:GC:70:LEU:N	2.03	0.90
44:GM:213:CYS:HB3	44:GM:217:LEU:HD12	1.52	0.90
44:HA:329:ASN:HD21	45:HD:175:VAL:HG12	1.35	0.90
45:HB:52:ASN:N	45:HB:60:VAL:O	2.04	0.90
45:JN:207:LEU:HB3	45:JN:225:LEU:HD22	1.52	0.90
45:KB:25:SER:HB2	45:KB:81:PHE:HE2	1.36	0.90
44:KI:73:THR:OG1	45:KJ:247:ASN:ND2	2.05	0.90
44:LK:60:LYS:HZ3	44:MK:283:HIS:CE1	1.89	0.90
45:NF:316:LEU:HD13	45:NF:352:SER:HB2	1.52	0.90
45:NN:117:LEU:O	45:NN:120:VAL:HG12	1.72	0.90
45:PJ:134:GLN:HA	45:PJ:165:GLU:HB2	1.54	0.90
45:PJ:268:ILE:HG22	45:PJ:368:VAL:HG22	1.53	0.90
44:PM:98:ASP:O	44:PM:105:ARG:NH1	2.04	0.90
44:QA:288:VAL:HA	44:QA:291:ILE:HG12	1.51	0.90
44:QC:141:VAL:HG11	44:QC:172:TYR:HD1	1.35	0.90
44:QC:247:ALA:HB3	44:QC:355:ILE:HB	1.51	0.90
44:QK:349:THR:HG23	45:QL:179:VAL:HA	1.51	0.90
45:QN:5:VAL:HG12	45:QN:62:ARG:HD3	1.51	0.90
44:RI:348:PRO:HD2	45:RJ:388:MET:HE3	1.51	0.90
45:RN:258:ILE:HG13	45:RN:266:PHE:HZ	1.34	0.90
44:SA:271:SER:HB2	44:SA:377:MET:HG2	1.51	0.90
44:SE:288:VAL:HA	44:SE:291:ILE:HG12	1.53	0.90
44:SK:108:TYR:HA	44:SK:112:LYS:HE3	1.53	0.90
44:UK:79:ARG:O	44:UK:84:ARG:NE	2.04	0.90
44:WA:72:PRO:HB2	45:WB:46:ARG:HH22	1.34	0.90
45:WN:211:CYS:O	45:WN:216:LYS:N	2.04	0.90
24:2O:264:ILE:HD11	44:VG:282:TYR:HD2	1.35	0.90
44:BM:115:VAL:HG11	44:BM:152:LEU:HD23	1.54	0.90
45:CD:6:HIS:HA	45:CD:134:GLN:HE21	1.37	0.90
45:DB:324:LYS:HE2	44:DC:210:TYR:HB3	1.51	0.90
45:EL:269:GLY:HA2	45:EL:300:MET:HE1	1.54	0.90
44:FG:89:PRO:HG3	44:GG:280:LYS:CD	2.01	0.90
44:GM:284:GLU:HG3	44:GM:286:LEU:HD22	1.53	0.90
44:GM:294:SER:HA	44:GM:297:GLU:HG3	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:203:ASP:OD2	45:GN:302:ALA:N	2.05	0.90
44:HM:102:ASN:HB3	44:HM:105:ARG:HG3	1.54	0.90
44:IA:21:TRP:O	44:IA:25:CYS:N	2.05	0.90
45:IB:119:VAL:HG23	45:IB:122:LYS:HE3	1.52	0.90
45:JD:8:GLN:HE21	45:JD:65:LEU:HG	1.37	0.90
45:KN:284:LEU:O	45:KN:362:LYS:NZ	2.04	0.90
45:MD:178:THR:HB	45:MD:181:GLU:HG3	1.54	0.90
45:MN:325:GLU:HA	45:MN:328:GLU:HG2	1.53	0.90
45:NJ:267:MET:HG2	45:NJ:299:MET:CE	2.01	0.90
44:NM:27:GLU:HG3	44:NM:361:THR:HG21	1.50	0.90
44:OK:213:CYS:HA	44:OK:217:LEU:HB2	1.53	0.90
44:PC:229:ARG:HA	44:PC:232:ALA:HB3	1.53	0.90
45:QJ:4:ILE:HG23	45:QJ:131:GLN:HB3	1.53	0.90
44:QK:6:SER:HA	44:QK:136:LEU:HB2	1.51	0.90
45:QN:50:TYR:O	45:QN:62:ARG:N	2.04	0.90
45:RD:309:ARG:NH1	45:RD:426:GLN:OE1	2.04	0.90
45:SB:315:ALA:N	45:SB:350:LYS:O	2.05	0.90
45:SD:42:LEU:HA	45:SD:45:GLU:HG3	1.53	0.90
44:TK:284:GLU:HG3	44:TK:286:LEU:HD22	1.53	0.90
44:UE:287:SER:HB3	44:UE:290:GLU:HG2	1.54	0.90
45:UL:3:GLU:HG3	45:UL:49:VAL:HA	1.52	0.90
45:WH:286:VAL:HB	45:WH:287:PRO:HD3	1.54	0.90
3:OB:71:ILE:HG21	45:JH:361:LEU:HD21	1.53	0.90
22:1L:672:THR:HG22	45:CD:320:ARG:HH22	1.32	0.90
35:6R:436:GLU:CB	45:FN:280:GLN:CD	2.36	0.90
44:BI:89:PRO:HG2	44:CI:280:LYS:HG2	1.51	0.90
44:EC:188:ILE:HG13	44:EC:395:PHE:HB2	1.54	0.90
45:EF:255:VAL:HA	44:EG:407:TRP:HZ3	1.34	0.90
45:EL:382:ALA:O	45:EL:386:THR:N	2.04	0.90
45:GF:84:LEU:O	45:GF:86:ARG:NH1	2.04	0.90
44:GM:21:TRP:O	44:GM:25:CYS:N	2.04	0.90
44:GM:216:ASN:O	44:GM:277:SER:N	2.05	0.90
44:HG:275:ILE:HG13	44:HG:368:LEU:HD11	1.54	0.90
44:JE:287:SER:HA	44:JE:373:ARG:NH1	1.87	0.90
44:JG:11:GLN:NE2	46:JG:501:GTP:O3A	2.05	0.90
44:JK:268:MET:HE3	44:JK:380:ASN:HB2	1.54	0.90
44:KA:205:ASP:OD2	44:KA:304:LYS:N	2.04	0.90
45:KB:28:His:CE1	45:KB:241:ARG:HD3	2.06	0.90
45:KB:284:LEU:HD23	45:KB:362:LYS:HB2	1.51	0.90
45:NJ:304:ASP:HB3	45:NJ:307:His:HD2	1.34	0.90
44:PE:67:PHE:HB2	44:PE:92:LEU:HG	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:340:THR:HG23	44:PE:341:ILE:HD12	1.54	0.90
45:PF:20:PHE:CZ	45:PF:25:SER:HA	2.04	0.90
44:PK:314:ALA:O	44:PK:380:ASN:N	2.04	0.90
44:SM:68:LEU:HD22	44:SM:153:LEU:HD11	1.53	0.90
44:UE:311:LYS:N	44:UE:382:THR:OG1	2.04	0.90
45:UJ:19:LYS:O	45:UJ:23:VAL:N	2.04	0.90
44:UK:326:LYS:NZ	45:UL:220:PRO:O	2.05	0.90
45:UN:328:GLU:O	45:UN:332:ASN:N	2.04	0.90
22:2L:772:ASN:HD22	44:BK:278:ALA:HB3	1.31	0.89
34:4F:131:LYS:HE3	44:IK:365:GLY:HA3	1.53	0.89
38:5G:208:PRO:HB3	44:LK:430:LYS:HG2	1.53	0.89
44:BM:180:ALA:HB3	44:BM:183:GLU:HB3	1.54	0.89
44:CC:11:GLN:NE2	46:CC:501:GTP:O1G	2.06	0.89
45:CF:237:THR:HG23	45:CF:241:ARG:HH21	1.36	0.89
44:DA:25:CYS:HA	44:DA:30:ILE:HD12	1.53	0.89
44:DM:275:ILE:HG23	44:DM:368:LEU:HD11	1.53	0.89
44:EI:427:ALA:O	44:EI:431:ASP:N	2.04	0.89
44:JA:396:ASP:OD1	44:JA:397:LEU:HD12	1.72	0.89
45:KN:296:ALA:HB1	45:KN:305:PRO:HD2	1.54	0.89
44:LI:105:ARG:HA	44:LI:109:THR:HG22	1.54	0.89
44:OM:277:SER:HB2	44:OM:280:LYS:HG2	1.55	0.89
45:QJ:313:ALA:O	45:QJ:350:LYS:N	2.05	0.89
45:SB:51:TYR:HB3	45:SB:59:TYR:HB3	1.51	0.89
44:SE:156:ARG:HA	44:SE:159:VAL:HG12	1.51	0.89
44:SI:14:ILE:HD11	44:SI:69:ASP:HB2	1.54	0.89
45:TB:139:LEU:HD13	45:TB:168:SER:HB3	1.54	0.89
45:TH:324:LYS:HB3	44:TI:222:PRO:HG2	1.52	0.89
45:UF:245:GLN:O	44:UG:15:GLN:NE2	2.04	0.89
45:WD:42:LEU:HD23	45:WD:243:PRO:HD2	1.53	0.89
1:6H:369:SER:HA	45:FL:360:GLY:O	1.69	0.89
31:4H:173:GLY:N	44:AI:322:ASP:OD2	2.04	0.89
35:6R:413:ILE:HG21	35:6R:417:TYR:HE2	1.37	0.89
35:7R:447:PHE:HB2	35:7R:452:THR:HB	1.52	0.89
44:AA:188:ILE:HG23	44:AA:425:LEU:HG	1.52	0.89
45:AB:97:ALA:HA	45:AB:103:LYS:HG2	1.54	0.89
44:AC:328:VAL:HG11	44:AC:353:VAL:HG21	1.52	0.89
45:AD:237:THR:HG22	45:AD:250:LEU:HD21	1.53	0.89
44:AG:245:ASP:OD1	44:AG:246:GLY:N	2.05	0.89
44:BA:407:TRP:HZ3	45:BB:255:VAL:CB	1.83	0.89
45:DH:270:PHE:HB3	45:DH:273:LEU:HD11	1.54	0.89
45:DN:394:PHE:HA	45:DN:397:TRP:CZ3	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:311:LYS:HD2	44:EI:342:GLN:HG3	1.54	0.89
44:EK:70:LEU:HD11	44:EK:149:LEU:HD21	1.53	0.89
45:FD:151:LEU:HA	45:FD:154:LYS:HZ3	1.33	0.89
44:GC:311:LYS:HB2	44:GC:382:THR:HG21	1.54	0.89
44:GI:210:TYR:HE2	44:GI:227:LEU:HD21	1.35	0.89
45:GJ:286:VAL:HG11	45:GJ:321:MET:HE3	1.51	0.89
45:ID:6:HIS:HB3	45:ID:63:ALA:HA	1.51	0.89
44:KC:11:GLN:HG3	44:KC:74:VAL:HG21	1.51	0.89
45:KJ:86:ARG:HH12	45:LJ:282:ARG:HG2	1.38	0.89
44:KM:64:ARG:HB3	44:KM:125:LEU:HD21	1.54	0.89
45:LD:165:GLU:HG2	45:LD:198:GLU:HB2	1.52	0.89
44:LG:209:ILE:HA	44:LG:212:ILE:HG22	1.54	0.89
45:NJ:260:PHE:HB3	45:NJ:261:PRO:HD2	1.54	0.89
44:NK:328:VAL:HG11	44:NK:353:VAL:HG21	1.54	0.89
44:OA:195:LEU:HD12	44:OA:266:HIS:HE1	1.35	0.89
44:OK:99:ALA:HB3	44:OK:145:THR:HB	1.51	0.89
44:PC:4:VAL:O	44:PC:64:ARG:NH2	2.05	0.89
44:QC:316:SER:HB2	44:QC:352:LYS:HB3	1.54	0.89
45:QH:327:ASP:HB3	44:QI:177:VAL:HG11	1.51	0.89
45:QL:258:ILE:HB	44:QM:407:TRP:CH2	2.08	0.89
45:QL:268:ILE:HG13	45:QL:300:MET:HE2	1.54	0.89
44:RE:144:GLY:O	44:RE:148:GLY:N	2.04	0.89
44:SM:424:ASP:O	44:SM:428:LEU:N	2.06	0.89
45:TH:324:LYS:HD3	44:TI:222:PRO:HG3	1.53	0.89
45:TN:42:LEU:HA	45:TN:45:GLU:HG3	1.52	0.89
45:UJ:285:THR:HG22	45:UJ:288:GLU:HG2	1.51	0.89
44:UM:145:THR:N	46:UM:501:GTP:O2G	2.04	0.89
45:VB:325:GLU:HA	45:VB:328:GLU:HG2	1.54	0.89
44:VK:102:ASN:HD21	44:VK:411:GLU:HG3	1.35	0.89
45:VN:24:ILE:O	45:VN:27:GLU:HG2	1.72	0.89
45:VN:256:ASN:HD22	45:VN:350:LYS:HD2	1.37	0.89
45:VN:268:ILE:HG22	45:VN:368:VAL:HG13	1.52	0.89
44:WI:31:GLN:HG3	44:WI:32:PRO:HD2	1.55	0.89
44:WI:209:ILE:HD12	44:WI:227:LEU:HD22	1.52	0.89
35:5R:513:HIS:HA	35:5R:516:MET:HB3	1.53	0.89
35:6R:323:LEU:HD21	45:CN:276:ARG:HD2	1.47	0.89
45:AH:248:SER:HA	45:AH:252:LYS:HD2	1.53	0.89
44:BE:238:LEU:HA	44:BE:318:MET:HE1	1.52	0.89
45:CB:137:HIS:HB2	48:CB:501:GDP:O1B	1.71	0.89
44:CG:352:LYS:HZ3	45:CH:178:THR:HA	1.34	0.89
44:EA:36:MET:HG3	44:EA:37:PRO:HD2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:401:GLU:HB2	45:ED:403:MET:HE1	1.54	0.89
44:EI:175:PRO:HG2	44:EI:304:LYS:HE3	1.54	0.89
45:EN:248:SER:HA	45:EN:252:LYS:HD2	1.53	0.89
45:GF:86:ARG:NE	45:HF:281:TYR:OH	2.05	0.89
45:HB:116:VAL:HA	45:HB:119:VAL:HG12	1.53	0.89
44:HK:195:LEU:O	44:HK:266:HIS:NE2	2.05	0.89
44:IM:22:GLU:HA	44:IM:25:CYS:HB2	1.52	0.89
44:JG:326:LYS:HE3	45:JJ:220:PRO:HD2	1.52	0.89
44:LM:319:TYR:HB2	44:LM:355:ILE:HD13	1.52	0.89
45:MB:41:ASP:O	45:MB:43:GLN:N	2.04	0.89
44:NA:414:GLU:HB3	44:NA:417:GLU:HG2	1.53	0.89
44:QA:316:SER:O	44:QA:378:ILE:N	2.05	0.89
45:QB:329:GLN:O	45:QB:333:VAL:N	2.03	0.89
45:RB:202:ILE:HD12	45:RB:300:MET:HG3	1.54	0.89
44:RE:21:TRP:O	44:RE:25:CYS:N	2.05	0.89
44:RI:288:VAL:HA	44:RI:291:ILE:HG12	1.52	0.89
45:RL:87:PRO:HA	45:RL:90:PHE:HD2	1.36	0.89
44:SA:324:VAL:HG11	44:SA:326:LYS:HE3	1.53	0.89
44:SE:133:GLN:O	44:SE:165:SER:OG	1.90	0.89
44:SG:258:ASN:HD22	44:SG:352:LYS:HB2	1.35	0.89
45:UB:271:ALA:HB1	45:UB:272:PRO:HA	1.54	0.89
45:UD:46:ARG:HH2	44:UE:73:THR:HA	1.38	0.89
45:UF:296:ALA:HA	45:UF:305:PRO:HG2	1.53	0.89
44:VA:258:ASN:HD21	45:VD:178:THR:HG23	1.34	0.89
44:VK:60:LYS:NZ	44:VK:85:GLN:O	2.04	0.89
10:ON:191:LYS:HE3	44:KK:42:ILE:HA	1.50	0.89
5:1D:164:PRO:HD2	45:EF:40:SER:HA	1.50	0.89
11:6Q:73:LEU:HB3	11:6Q:169:ASP:OD1	1.73	0.89
44:AI:141:VAL:HG11	44:AI:172:TYR:HD1	1.36	0.89
44:CA:350:GLY:HA2	45:CB:179:VAL:HG12	1.54	0.89
45:DB:7:ILE:HB	45:DB:135:ILE:HD12	1.55	0.89
44:DC:22:GLU:O	44:DC:26:LEU:N	2.04	0.89
45:DD:132:GLY:HA3	45:DD:163:ILE:HG12	1.53	0.89
45:DF:46:ARG:NH2	44:DG:76:ASP:OD2	2.05	0.89
45:ED:396:HIS:HA	45:ED:399:THR:HG22	1.54	0.89
44:GA:105:ARG:HA	44:GA:109:THR:CB	2.02	0.89
44:GK:5:ILE:HD13	44:GK:125:LEU:HB3	1.52	0.89
44:HA:96:LYS:NZ	45:HB:129:CYS:SG	2.46	0.89
44:IA:271:SER:HB2	44:IA:377:MET:HE2	1.53	0.89
45:KN:4:ILE:HG22	45:KN:131:GLN:HB3	1.54	0.89
44:MA:11:GLN:HG3	44:MA:74:VAL:HG11	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MA:230:LEU:HD11	44:MA:275:ILE:HD11	1.54	0.89
45:MB:207:LEU:HD13	45:MB:225:LEU:HD22	1.52	0.89
45:ML:101:TRP:CZ3	45:ML:187:LEU:HB3	2.07	0.89
45:NF:217:LEU:HD11	45:NF:220:PRO:HB3	1.54	0.89
45:PF:20:PHE:CE1	45:PF:25:SER:CA	2.56	0.89
44:PK:178:SER:OG	45:PL:347:ASN:ND2	2.05	0.89
44:PK:180:ALA:HB3	44:PK:183:GLU:HB3	1.51	0.89
45:PL:240:LEU:HD12	45:PL:249:ASP:HB3	1.54	0.89
44:PM:144:GLY:N	46:PM:501:GTP:O2G	2.05	0.89
44:QK:32:PRO:O	44:QK:86:LEU:HD21	1.71	0.89
44:QM:9:VAL:HG12	44:QM:68:LEU:HB2	1.54	0.89
45:RF:45:GLU:HB3	45:RF:46:ARG:HH11	1.36	0.89
45:UB:267:MET:O	45:UB:369:GLY:N	2.05	0.89
45:UD:117:LEU:HG	45:UD:121:ARG:HH22	1.36	0.89
44:UM:213:CYS:SG	44:UM:217:LEU:HD22	2.11	0.89
45:VF:309:ARG:NH1	45:VF:426:GLN:O	2.06	0.89
44:WK:16:VAL:HG21	44:WK:231:ILE:HD13	1.54	0.89
15:OV:69:SER:OG	45:MN:337:ASN:OD1	1.89	0.89
37:5D:39:ARG:HH22	44:KK:268:MET:HG2	1.09	0.89
44:AC:51:THR:HG23	44:AC:52:PHE:HD2	1.36	0.89
45:AL:23:VAL:HG11	45:AL:230:SER:HB3	1.51	0.89
44:BA:288:VAL:HA	44:BA:291:ILE:HG12	1.55	0.89
45:CF:25:SER:HB3	45:CF:30:ILE:HB	1.54	0.89
45:DF:68:LEU:HD23	45:DF:97:ALA:HB2	1.55	0.89
45:ED:117:LEU:HB2	45:ED:154:LYS:HE3	1.55	0.89
45:FD:42:LEU:HA	45:FD:45:GLU:HG3	1.54	0.89
44:FK:47:ASP:OD1	44:FK:50:ASN:N	2.06	0.89
45:FN:141:GLY:O	45:FN:145:SER:N	2.05	0.89
45:GH:144:GLY:N	48:GH:502:GDP:O2B	2.05	0.89
44:GK:2:ARG:HA	44:GK:133:GLN:HE22	1.37	0.89
45:HH:268:ILE:O	45:HH:300:MET:HB2	1.72	0.89
45:ID:274:THR:HB	45:ID:282:ARG:HH22	1.35	0.89
45:JB:86:ARG:HG2	45:KB:281:TYR:HB3	1.55	0.89
45:LB:207:LEU:HA	45:LB:210:ILE:HD12	1.55	0.89
44:LK:124:LYS:HE2	44:MK:297:GLU:OE2	1.71	0.89
44:NM:403:ALA:HA	45:NN:260:PHE:HE2	1.35	0.89
45:OH:248:SER:HA	45:OH:252:LYS:HD3	1.53	0.89
44:OI:11:GLN:NE2	45:OJ:245:GLN:O	2.06	0.89
45:PN:135:ILE:HB	45:PN:166:THR:HG22	1.54	0.89
45:RJ:135:ILE:N	45:RJ:165:GLU:O	2.05	0.89
45:RN:271:ALA:HB1	45:RN:272:PRO:HA	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:90:GLU:O	44:SE:121:ARG:NH2	2.05	0.89
45:SL:100:ASN:ND2	45:SL:401:GLU:OE1	2.06	0.89
44:TC:141:VAL:HG11	44:TC:172:TYR:HA	1.55	0.89
44:UG:14:ILE:HD11	44:UG:69:ASP:HB2	1.55	0.89
45:WJ:163:ILE:HD11	45:WJ:251:ARG:HE	1.36	0.89
44:WM:76:ASP:OD2	45:WN:46:ARG:NH2	2.04	0.89
37:5D:38:THR:HA	44:KK:265:ILE:HG12	1.51	0.89
45:BL:207:LEU:HD21	45:BL:300:MET:HE3	1.52	0.89
44:CA:288:VAL:HG11	44:CA:327:ASP:HB3	1.53	0.89
44:CC:320:ARG:HG3	44:CC:374:ALA:HB3	1.52	0.89
45:DB:318:ARG:HD3	45:DB:358:PRO:HD3	1.51	0.89
44:DI:284:GLU:HG3	44:DI:286:LEU:HD22	1.54	0.89
44:DK:262:TYR:OH	45:DL:391:ARG:O	1.91	0.89
44:EE:188:ILE:CD1	44:EE:425:LEU:HD21	2.03	0.89
45:GB:5:VAL:HG12	45:GB:62:ARG:HD3	1.55	0.89
44:GC:407:TRP:HZ3	45:GD:255:VAL:HA	1.37	0.89
44:GI:390:ARG:HD2	44:GI:394:LYS:NZ	1.87	0.89
44:GK:100:ALA:HB1	45:GL:252:LYS:HA	1.54	0.89
45:HN:344:TRP:HB3	45:HN:430:ALA:HB2	1.54	0.89
44:IC:275:ILE:HD12	44:IC:368:LEU:HD11	1.54	0.89
45:ID:173:PRO:HG3	45:ID:380:ARG:HD3	1.52	0.89
44:IG:27:GLU:HA	44:IG:361:THR:HG21	1.53	0.89
44:JG:204:LEU:HD13	44:JG:231:ILE:HD12	1.54	0.89
44:JM:314:ALA:HB3	44:JM:380:ASN:HB3	1.54	0.89
45:KJ:139:LEU:HD13	45:KJ:168:SER:HB3	1.54	0.89
44:LM:149:LEU:O	44:LM:153:LEU:N	2.04	0.89
45:NH:60:VAL:HG23	45:NH:86:ARG:NH1	1.88	0.89
44:OE:288:VAL:HG11	44:OE:327:ASP:HB3	1.54	0.89
45:ON:313:ALA:HB3	45:ON:349:ILE:HA	1.54	0.89
44:PE:205:ASP:OD2	44:PE:304:LYS:N	2.04	0.89
44:PG:131:GLY:O	44:PG:133:GLN:NE2	2.06	0.89
45:PJ:8:GLN:OE1	45:PJ:17:GLY:HA3	1.73	0.89
45:PN:22:GLU:HG2	45:PN:81:PHE:HB2	1.54	0.89
45:SD:211:CYS:HA	45:SD:215:LEU:HD12	1.54	0.89
44:UI:171:ILE:HG13	44:UI:204:LEU:HB2	1.53	0.89
19:1I:167:ARG:HH21	44:KE:357:TYR:HB3	1.33	0.89
22:1L:525:LEU:HD13	45:BF:320:ARG:HB2	1.54	0.89
23:1M:19:LEU:HD21	44:JC:278:ALA:HB1	1.53	0.89
15:1V:146:PRO:CD	44:LK:414:GLU:CD	2.40	0.89
16:3X:78:ASN:HB3	45:MN:280:GLN:HE21	1.38	0.89
35:4R:143:VAL:HG23	45:AH:78:ALA:HB2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:141:VAL:HG21	44:AA:172:TYR:HD1	1.38	0.89
44:BA:407:TRP:HZ3	45:BB:255:VAL:CG2	1.85	0.89
44:CC:56:THR:HA	44:DC:285:GLN:HE22	1.37	0.89
44:DC:414:GLU:HB2	44:DC:417:GLU:HG2	1.55	0.89
44:DI:327:ASP:O	44:DI:331:SER:N	2.05	0.89
44:EE:67:PHE:HB2	44:EE:92:LEU:HG	1.55	0.89
44:EG:288:VAL:CG1	44:EG:327:ASP:HB3	2.02	0.89
44:EI:276:ILE:HD13	44:EI:281:ALA:HA	1.55	0.89
44:EK:55:GLU:HG3	44:EK:57:GLY:H	1.38	0.89
44:EK:284:GLU:HG3	44:EK:286:LEU:HD22	1.54	0.89
44:FE:31:GLN:HG3	44:FE:32:PRO:HD2	1.54	0.89
45:FL:313:ALA:HB3	45:FL:349:ILE:HA	1.51	0.89
44:GA:22:GLU:O	44:GA:26:LEU:N	2.06	0.89
45:GL:293:MET:HG3	45:GL:294:PHE:HD1	1.38	0.89
45:HD:303:ALA:HB1	45:HD:373:ALA:HB1	1.55	0.89
45:IB:268:ILE:HG22	45:IB:368:VAL:HG22	1.53	0.89
45:IF:376:GLU:HG3	45:IF:380:ARG:HH21	1.38	0.89
44:IK:294:SER:OG	44:IK:300:ASN:ND2	2.06	0.89
44:KC:420:GLU:O	44:KC:423:GLU:HG3	1.73	0.89
44:KE:3:GLU:HG2	44:KE:64:ARG:HH22	1.37	0.89
45:LD:378:PHE:O	45:LD:382:ALA:N	2.04	0.89
44:LG:105:ARG:HA	44:LG:109:THR:HG22	1.54	0.89
44:NC:141:VAL:HG23	44:NC:190:SER:HB2	1.53	0.89
45:NF:31:ASP:OD1	45:NF:34:GLY:N	2.05	0.89
44:NG:69:ASP:OD1	44:NG:70:LEU:N	2.06	0.89
45:NL:58:ARG:NH2	45:OL:280:GLN:O	2.06	0.89
44:OC:311:LYS:N	44:OC:382:THR:OG1	2.05	0.89
44:OI:180:ALA:HB3	44:OI:183:GLU:HB3	1.55	0.89
44:PM:269:LEU:HG	44:PM:301:MET:HE2	1.53	0.89
45:QB:100:ASN:HD22	45:QB:103:LYS:HB2	1.38	0.89
45:QF:42:LEU:HD22	45:QF:356:ILE:HD11	1.54	0.89
44:QM:259:LEU:HD22	44:QM:380:ASN:HB2	1.52	0.89
44:RA:284:GLU:HG3	44:RA:286:LEU:HD22	1.53	0.89
45:RD:375:GLN:HE21	45:RD:379:LYS:HG3	1.37	0.89
45:RF:245:GLN:O	44:RG:11:GLN:NE2	2.05	0.89
44:SG:188:ILE:HG23	44:SG:425:LEU:HD11	1.55	0.89
45:TB:267:MET:HE2	45:TB:371:SER:HB3	1.54	0.89
44:UG:212:ILE:HD13	44:UG:215:ARG:HH12	1.38	0.89
45:UL:324:LYS:O	45:UL:328:GLU:N	2.05	0.89
44:VI:75:ILE:HG22	44:VI:79:ARG:HH12	1.38	0.89
45:WJ:173:PRO:HG2	45:WJ:380:ARG:HD3	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0X:3:ARG:HH11	45:MD:15:GLN:HE21	1.18	0.89
11:5Q:116:PRO:HG3	44:AK:263:PRO:HG2	1.55	0.89
11:6Q:102:ARG:HD2	44:AM:430:LYS:HZ3	1.36	0.89
35:7R:30:GLN:N	45:LB:74:ASP:OD2	2.06	0.89
45:AF:135:ILE:HB	45:AF:166:THR:HG22	1.55	0.89
45:DL:1:MET:SD	45:DL:2:ARG:NH1	2.46	0.89
44:FG:49:PHE:O	44:FG:53:PHE:N	2.06	0.89
45:GL:113:ILE:HD13	45:GL:150:LEU:HD22	1.54	0.89
45:GN:66:MET:HE2	45:GN:116:VAL:HG21	1.55	0.89
45:HJ:257:LEU:HD11	45:HJ:314:SER:HB2	1.53	0.89
45:HN:385:PHE:CE1	45:HN:386:THR:HG22	2.07	0.89
45:JL:133:PHE:O	45:JL:165:GLU:N	2.06	0.89
44:KI:178:SER:OG	45:KJ:347:ASN:ND2	2.05	0.89
45:KL:235:GLY:HA3	45:KL:366:THR:HG21	1.54	0.89
44:LI:180:ALA:HA	45:LJ:350:LYS:HE2	1.53	0.89
44:LM:318:MET:HG3	44:LM:354:GLY:HA3	1.52	0.89
44:ME:407:TRP:CZ3	45:MF:255:VAL:HA	2.08	0.89
44:OG:238:LEU:HD11	44:OG:255:PHE:CE2	2.08	0.89
44:PG:188:ILE:HG23	44:PG:425:LEU:HD11	1.54	0.89
45:PL:248:SER:HA	45:PL:252:LYS:HD2	1.55	0.89
44:QG:31:GLN:CG	44:QG:32:PRO:HD2	2.03	0.89
45:QH:249:ASP:OD1	45:QH:252:LYS:N	2.05	0.89
45:QH:379:LYS:O	45:QH:383:GLU:N	2.05	0.89
45:RB:398:TYR:HB3	45:RB:403:MET:HE3	1.54	0.89
44:RE:75:ILE:HG23	44:RE:92:LEU:HG	1.55	0.89
44:RG:229:ARG:HD3	44:RG:363:VAL:HG21	1.53	0.89
45:SB:42:LEU:HA	45:SB:45:GLU:HG3	1.54	0.89
45:SH:319:GLY:N	45:SH:354:CYS:O	2.05	0.89
45:SJ:100:ASN:HD22	45:SJ:103:LYS:HB2	1.36	0.89
45:UL:22:GLU:O	45:UL:26:ASP:N	2.05	0.89
44:VA:87:PHE:HB3	44:VA:92:LEU:HD11	1.54	0.89
45:VJ:183:TYR:OH	45:VJ:393:ALA:O	1.91	0.89
45:VL:274:THR:HG23	45:VL:279:GLN:HG2	1.55	0.89
44:WA:228:ASN:HA	44:WA:231:ILE:HD13	1.55	0.89
45:WF:295:ASP:OD2	45:WF:297:LYS:NZ	2.06	0.89
15:2V:161:TYR:HE1	44:MG:429:GLU:HB3	1.33	0.89
37:5D:34:PHE:CG	44:KK:430:LYS:C	2.46	0.89
35:6R:470:PHE:CE2	45:EN:83:GLN:HG3	2.08	0.89
45:BD:101:TRP:CZ3	45:BD:187:LEU:HB3	2.07	0.89
45:BL:207:LEU:HB3	45:BL:225:LEU:CD2	2.02	0.89
45:CL:325:GLU:O	45:CL:329:GLN:NE2	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:136:LEU:HD22	44:EC:167:LEU:HD22	1.55	0.89
45:EH:325:GLU:H	44:EI:221:ARG:HH12	1.17	0.89
44:EK:215:ARG:HD2	44:EK:216:ASN:OD1	1.72	0.89
44:FA:232:ALA:HA	44:FA:235:ILE:HD13	1.53	0.89
45:FB:210:ILE:O	45:FB:214:THR:OG1	1.91	0.89
44:GI:11:GLN:HG3	44:GI:74:VAL:HG21	1.54	0.89
44:IE:14:ILE:HD11	44:IE:69:ASP:HB2	1.53	0.89
45:JD:49:VAL:HG11	45:JD:241:ARG:HG2	1.54	0.89
45:LD:295:ASP:OD2	45:LD:297:LYS:NZ	2.06	0.89
44:LG:2:ARG:HH21	44:LG:243:ARG:HA	1.35	0.89
44:LI:167:LEU:HD23	44:LI:200:VAL:HB	1.54	0.89
44:MK:51:THR:HG21	44:MK:243:ARG:HD3	1.53	0.89
45:ND:86:ARG:NE	45:ND:87:PRO:HD2	1.88	0.89
44:NI:105:ARG:HD2	44:NI:411:GLU:HG2	1.54	0.89
45:NN:313:ALA:HA	45:NN:369:GLY:HA2	1.54	0.89
44:OK:23:LEU:HD11	44:OK:361:THR:HG23	1.55	0.89
45:PB:207:LEU:HB3	45:PB:225:LEU:HD22	1.55	0.89
44:PE:91:GLN:HG3	44:PE:92:LEU:HD12	1.54	0.89
45:PL:313:ALA:N	45:PL:348:ASN:O	2.06	0.89
44:QM:49:PHE:O	44:QM:53:PHE:N	2.06	0.89
44:SA:188:ILE:HG22	44:SA:421:ALA:HB1	1.55	0.89
44:SE:284:GLU:HG3	44:SE:286:LEU:HD22	1.52	0.89
44:SM:288:VAL:HA	44:SM:291:ILE:HG12	1.55	0.89
44:TE:292:THR:HG21	44:TE:331:SER:HB2	1.55	0.89
44:TE:326:LYS:O	44:TE:330:ALA:N	2.04	0.89
45:TF:151:LEU:HA	45:TF:154:LYS:HB2	1.53	0.89
44:TI:200:VAL:HA	44:TI:266:HIS:HB2	1.54	0.89
44:TK:23:LEU:O	44:TK:27:GLU:N	2.05	0.89
45:TN:325:GLU:HA	45:TN:328:GLU:HG2	1.53	0.89
44:UA:188:ILE:HD12	44:UA:425:LEU:HD11	1.54	0.89
45:UF:332:ASN:O	45:UF:336:LYS:HG2	1.70	0.89
45:UH:322:SER:HB3	45:UH:323:THR:HA	1.55	0.89
45:VF:342:VAL:HA	45:VF:345:ILE:HG12	1.55	0.89
44:WA:145:THR:N	46:WA:501:GTP:O2G	2.06	0.89
45:WB:19:LYS:HG3	45:WB:23:VAL:HG23	1.53	0.89
35:7R:296:GLY:HA3	45:DB:276:ARG:HB3	1.55	0.89
44:AC:195:LEU:HD11	44:AC:264:ARG:HD2	1.54	0.89
45:AH:218:THR:HG23	45:AH:219:THR:HG23	1.53	0.89
44:CM:269:LEU:HG	44:CM:301:MET:HE2	1.55	0.89
44:DC:105:ARG:HE	44:DC:110:ILE:HG23	1.38	0.89
44:EA:237:SER:HA	44:EA:320:ARG:HH21	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:313:ALA:HA	45:EB:369:GLY:HA2	1.53	0.89
45:EJ:240:LEU:HD12	45:EJ:249:ASP:HA	1.55	0.89
44:EM:389:SER:O	44:EM:393:HIS:N	2.05	0.89
44:GI:362:VAL:HG11	44:GI:370:LYS:HB3	1.53	0.89
44:IE:22:GLU:HG3	44:IE:83:TYR:HE2	1.36	0.89
45:JB:218:THR:HG23	45:JB:219:THR:HG23	1.53	0.89
44:JE:70:LEU:HD13	44:JE:110:ILE:HD11	1.55	0.89
45:KB:5:VAL:HA	45:KB:62:ARG:HD3	1.55	0.89
45:KN:262:ARG:HH12	45:KN:418:LEU:HD12	1.38	0.89
45:MB:167:PHE:HE2	45:MB:233:MET:HG3	1.38	0.89
44:ME:88:HIS:HB3	44:ME:91:GLN:HG2	1.55	0.89
45:ML:302:ALA:HB3	45:ML:377:MET:HE1	1.52	0.89
44:PE:22:GLU:HA	44:PE:25:CYS:HB2	1.53	0.89
45:PF:20:PHE:CD1	45:PF:24:ILE:N	2.41	0.89
45:QD:119:VAL:HG13	45:QD:122:LYS:HE3	1.53	0.89
44:RE:274:PRO:HD3	44:RE:374:ALA:HA	1.53	0.89
45:SN:97:ALA:O	45:SN:103:LYS:NZ	2.04	0.89
45:TF:213:ARG:O	45:TF:216:LYS:NZ	2.06	0.89
44:TI:413:MET:HE2	44:TI:417:GLU:HG3	1.53	0.89
22:2L:672:THR:O	45:CL:320:ARG:NH2	2.06	0.88
28:3C:219:GLN:NE2	44:KA:225:THR:OG1	2.07	0.88
13:3T:229:THR:HG21	44:MK:264:ARG:HG3	1.53	0.88
35:6R:538:PHE:CD1	35:6R:578:TYR:CG	2.61	0.88
45:AB:55:THR:HG23	45:BB:283:ALA:CB	2.03	0.88
45:AJ:274:THR:HG21	45:AJ:282:ARG:HD3	1.54	0.88
44:AM:89:PRO:HG3	44:BM:280:LYS:HG3	1.53	0.88
45:CH:124:ALA:HB1	45:CH:130:LEU:HD11	1.54	0.88
45:CH:214:THR:HG21	45:CH:273:LEU:HB3	1.53	0.88
44:DA:143:GLY:HA3	46:DA:501:GTP:O2B	1.73	0.88
44:DK:334:THR:HG22	44:DK:338:LYS:HZ3	1.35	0.88
44:EA:316:SER:HB2	44:EA:352:LYS:HE2	1.55	0.88
45:EH:136:THR:HA	45:EH:167:PHE:O	1.72	0.88
45:FD:318:ARG:HH11	45:FD:358:PRO:HG3	1.38	0.88
45:FF:28:HIS:HB3	45:FF:43:GLN:HE21	1.38	0.88
45:FN:229:VAL:HG12	45:FN:233:MET:HE2	1.54	0.88
45:GH:322:SER:HB2	45:GH:323:THR:OG1	1.72	0.88
45:GJ:152:ILE:HD12	45:GJ:164:MET:HE1	1.55	0.88
44:HC:174:SER:OG	44:HC:206:ASN:OD1	1.90	0.88
44:JK:68:LEU:HD12	44:JK:153:LEU:HD11	1.54	0.88
44:LI:286:LEU:N	44:LI:290:GLU:OE2	2.06	0.88
44:MA:108:TYR:HA	44:MA:112:LYS:HE3	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:210:TYR:O	44:MG:212:ILE:N	2.06	0.88
45:NN:162:ARG:HE	45:NN:163:ILE:H	1.18	0.88
45:OD:107:THR:OG1	45:OD:108:GLU:OE1	1.91	0.88
45:OD:282:ARG:HE	45:OD:288:GLU:HB3	1.38	0.88
45:PD:248:SER:HA	45:PD:252:LYS:HD3	1.54	0.88
44:QC:340:THR:HG23	44:QC:341:ILE:HG13	1.55	0.88
44:QE:258:ASN:HD21	45:QF:178:THR:HG23	1.36	0.88
45:RD:342:VAL:HG13	45:RD:345:ILE:HG22	1.53	0.88
44:SA:324:VAL:HG12	44:SA:326:LYS:HG3	1.55	0.88
44:SG:209:ILE:HG22	44:SG:227:LEU:HD22	1.55	0.88
44:TE:208:ALA:HB2	44:TE:304:LYS:HG2	1.55	0.88
44:UC:119:LEU:O	44:UC:123:ARG:N	2.06	0.88
45:UF:133:PHE:O	45:UF:165:GLU:N	2.05	0.88
45:UL:240:LEU:HD12	45:UL:249:ASP:HB3	1.53	0.88
44:VG:105:ARG:HH21	44:VG:110:ILE:HG21	1.37	0.88
34:4F:155:SER:HB3	45:IN:359:LYS:HG3	1.54	0.88
44:BI:257:THR:HA	45:BL:397:TRP:CH2	2.07	0.88
45:BJ:309:ARG:NH2	45:BJ:426:GLN:O	2.07	0.88
44:CG:14:ILE:HD11	44:CG:69:ASP:HB2	1.54	0.88
45:DB:237:THR:HG23	45:DB:241:ARG:HE	1.36	0.88
44:DG:425:LEU:HA	44:DG:428:LEU:HD23	1.56	0.88
45:EB:237:THR:HG23	45:EB:241:ARG:HE	1.36	0.88
45:ED:109:GLY:O	45:ED:113:ILE:N	2.06	0.88
45:ED:285:THR:HG22	45:ED:288:GLU:HG2	1.54	0.88
44:EI:284:GLU:OE1	44:EI:286:LEU:N	2.04	0.88
45:FB:252:LYS:HA	45:FB:255:VAL:HG23	1.56	0.88
44:HK:161:TYR:HB3	44:HK:164:LYS:HE2	1.54	0.88
45:IN:107:THR:HG21	45:IN:401:GLU:HG2	1.56	0.88
45:JN:11:GLN:N	48:JN:501:GDP:O1B	2.06	0.88
44:KM:12:GLY:O	44:KM:16:VAL:N	2.06	0.88
45:MD:60:VAL:HG23	45:MD:86:ARG:NH1	1.87	0.88
45:MD:318:ARG:HG2	45:MD:358:PRO:HD3	1.55	0.88
44:NA:73:THR:OG1	45:NB:46:ARG:NH2	2.05	0.88
45:NH:284:LEU:HB3	45:NH:289:LEU:HD21	1.55	0.88
44:NK:102:ASN:OD1	44:NK:105:ARG:N	2.05	0.88
45:OF:49:VAL:HG21	45:OF:240:LEU:HD22	1.53	0.88
45:OJ:319:GLY:HA2	45:OJ:357:PRO:CG	2.02	0.88
44:PG:89:PRO:HG3	44:QG:280:LYS:HD2	1.54	0.88
44:QE:320:ARG:HG2	44:QE:356:ASN:HB3	1.55	0.88
44:SK:316:SER:HB2	44:SK:352:LYS:CE	2.04	0.88
44:TC:63:PRO:HG3	44:TC:86:LEU:HG	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:254:ALA:HA	45:TN:258:ILE:HD13	1.54	0.88
44:VE:407:TRP:CZ3	45:VF:255:VAL:HA	2.07	0.88
16:0X:26:GLU:HA	45:MD:276:ARG:HH22	1.38	0.88
24:2O:173:GLU:HG2	45:VL:362:LYS:HG2	1.51	0.88
44:AE:221:ARG:NH1	45:AF:325:GLU:OE2	2.05	0.88
44:CA:49:PHE:HB2	44:CA:53:PHE:HD2	1.34	0.88
45:CB:182:PRO:O	45:CB:186:THR:OG1	1.91	0.88
45:CJ:117:LEU:HD22	45:CJ:154:LYS:HD3	1.56	0.88
44:DA:84:ARG:H	44:DA:84:ARG:HD2	1.35	0.88
45:DF:86:ARG:HD3	45:EF:281:TYR:HB2	1.54	0.88
45:DJ:86:ARG:NH2	45:EJ:278:SER:OG	2.05	0.88
45:EJ:86:ARG:HH22	45:FJ:278:SER:HA	1.37	0.88
44:EM:37:PRO:HG3	44:EM:40:LYS:HB2	1.55	0.88
44:HG:11:GLN:HG3	44:HG:74:VAL:HG11	1.55	0.88
45:HL:362:LYS:HD2	45:HL:363:MET:HG3	1.53	0.88
44:HM:175:PRO:HB3	44:HM:390:ARG:HD3	1.54	0.88
45:JB:103:LYS:NZ	45:JB:108:GLU:OE2	2.06	0.88
45:LB:296:ALA:HA	45:LB:305:PRO:HG2	1.55	0.88
44:LC:398:MET:HG2	45:LD:345:ILE:HD13	1.55	0.88
45:NL:171:PRO:HB3	45:NL:181:GLU:OE2	1.74	0.88
44:OG:435:VAL:HA	45:OJ:391:ARG:HH22	1.37	0.88
45:ON:285:THR:H	45:ON:288:GLU:HB2	1.38	0.88
45:RF:54:ALA:HA	45:SF:283:ALA:HB2	1.55	0.88
45:RJ:309:ARG:NH2	45:RJ:426:GLN:O	2.06	0.88
45:RL:222:TYR:O	45:RL:226:ASN:ND2	2.05	0.88
44:SA:213:CYS:O	44:SA:217:LEU:N	2.05	0.88
45:SH:324:LYS:HG3	44:SI:210:TYR:CD2	2.08	0.88
45:UB:163:ILE:HD13	45:UB:251:ARG:HG2	1.55	0.88
44:UM:75:ILE:HG21	44:UM:94:SER:HB2	1.56	0.88
45:VF:101:TRP:CZ3	45:VF:187:LEU:HB3	2.08	0.88
44:VG:145:THR:N	46:VG:501:GTP:O2G	2.04	0.88
45:VN:250:LEU:O	45:VN:254:ALA:N	2.05	0.88
44:WK:205:ASP:OD2	44:WK:304:LYS:N	2.06	0.88
45:WL:36:TYR:CE1	45:WL:44:LEU:HD21	2.09	0.88
26:1R:454:ARG:NH2	45:FD:218:THR:OG1	2.07	0.88
35:4R:90:ARG:HD2	44:AE:42:ILE:HD13	1.55	0.88
37:5D:107:TYR:CB	44:NM:278:ALA:H	1.85	0.88
44:AM:11:GLN:HG3	44:AM:74:VAL:HG21	1.53	0.88
45:BJ:257:LEU:HA	45:BJ:312:THR:HG21	1.54	0.88
44:CA:317:MET:N	44:CA:352:LYS:O	2.06	0.88
44:CM:242:LEU:HD11	44:CM:252:ILE:HG13	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:214:ARG:HH12	44:DC:220:GLU:HG2	1.38	0.88
45:DL:86:ARG:HD2	45:EL:281:TYR:HB3	1.55	0.88
44:EG:298:PRO:HG3	44:EG:308:ARG:HD3	1.54	0.88
44:FC:284:GLU:HG3	44:FC:286:LEU:HD22	1.56	0.88
45:FL:214:THR:O	45:FL:275:SER:OG	1.90	0.88
44:HG:188:ILE:HD12	44:HG:425:LEU:HD11	1.53	0.88
44:HI:141:VAL:HG11	44:HI:172:TYR:CD1	2.07	0.88
45:IB:52:ASN:HB2	45:IB:60:VAL:HG13	1.52	0.88
45:JB:83:GLN:O	45:KB:281:TYR:OH	1.90	0.88
45:LB:207:LEU:HD23	45:LB:210:ILE:HD12	1.53	0.88
44:LC:136:LEU:HD13	44:LC:235:ILE:HD11	1.55	0.88
45:LD:10:GLY:O	45:LD:14:ASN:N	2.06	0.88
44:MA:209:ILE:HD13	44:MA:227:LEU:HB3	1.53	0.88
44:OK:195:LEU:HD21	44:OK:264:ARG:HE	1.35	0.88
44:PA:311:LYS:O	44:PA:381:SER:OG	1.91	0.88
45:PB:316:LEU:HG	45:PB:352:SER:HB2	1.54	0.88
45:QB:67:ASP:HB3	45:QB:73:MET:HE2	1.53	0.88
45:QL:313:ALA:HB3	45:QL:349:ILE:HA	1.54	0.88
44:RI:204:LEU:HD23	44:RI:302:MET:HG2	1.53	0.88
44:RK:209:ILE:HG22	44:RK:227:LEU:HD22	1.52	0.88
45:TL:322:SER:HB3	44:TM:221:ARG:HG3	1.54	0.88
45:UF:60:VAL:HG21	45:UF:86:ARG:HB2	1.54	0.88
45:UF:346:PRO:HD2	44:UG:398:MET:HE1	1.56	0.88
44:UK:261:PRO:HD2	44:UK:313:MET:HE2	1.56	0.88
45:VB:100:ASN:HD22	45:VB:103:LYS:HG2	1.35	0.88
45:VB:215:LEU:HD13	45:VB:217:LEU:HD23	1.54	0.88
44:VE:174:SER:OG	44:VE:206:ASN:OD1	1.90	0.88
45:WN:86:ARG:HE	45:WN:87:PRO:HD2	1.39	0.88
12:1S:184:PRO:HG3	44:WC:127:ASP:HB3	1.55	0.88
16:2X:49:ILE:HD11	44:MI:282:TYR:HB2	1.54	0.88
35:6R:294:ASN:HD22	45:DN:217:LEU:HD13	1.31	0.88
35:7R:469:LYS:HG2	45:EB:78:ALA:HB2	1.55	0.88
45:DD:217:LEU:HD11	45:DD:220:PRO:HG3	1.56	0.88
44:DM:174:SER:OG	44:DM:206:ASN:OD1	1.92	0.88
45:EN:118:ASP:N	45:EN:119:VAL:HG23	1.89	0.88
44:FA:284:GLU:HG3	44:FA:286:LEU:HD22	1.53	0.88
44:FG:254:GLU:HG2	45:FJ:98:GLY:HA2	1.55	0.88
44:GK:184:PRO:HG2	44:GK:398:MET:HE1	1.55	0.88
44:GK:272:TYR:HD1	44:GK:376:CYS:HB2	1.37	0.88
44:HM:222:PRO:HD2	45:HN:324:LYS:HD3	1.54	0.88
44:IG:288:VAL:HG11	44:IG:327:ASP:HB3	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:188:ILE:HG21	44:IM:425:LEU:HD11	1.56	0.88
44:NM:212:ILE:HD11	44:NM:300:ASN:HA	1.53	0.88
44:OE:215:ARG:NH2	44:OE:299:ALA:O	2.06	0.88
44:OE:241:SER:OG	44:OE:250:VAL:O	1.89	0.88
44:PC:286:LEU:O	44:PC:373:ARG:NE	2.05	0.88
45:PD:269:GLY:O	45:PD:367:PHE:N	2.06	0.88
44:QC:67:PHE:O	44:QC:93:ILE:N	2.06	0.88
44:QE:12:GLY:O	44:QE:16:VAL:N	2.05	0.88
44:RG:14:ILE:HD11	44:RG:69:ASP:HB2	1.54	0.88
44:SE:87:PHE:HB3	44:SE:92:LEU:HD11	1.54	0.88
44:SM:156:ARG:HD2	44:SM:157:LEU:HG	1.56	0.88
44:TK:320:ARG:HG3	44:TK:374:ALA:HB3	1.53	0.88
44:TK:387:VAL:HA	44:TK:390:ARG:HG2	1.52	0.88
45:UH:72:THR:HG23	45:UH:73:MET:HE2	1.53	0.88
45:VF:342:VAL:HG13	45:VF:345:ILE:HD13	1.53	0.88
45:VH:342:VAL:HG13	45:VH:345:ILE:HG22	1.55	0.88
1:6H:266:LYS:HZ2	44:FE:364:PRO:CG	1.73	0.88
15:3V:239:ARG:NH1	44:VA:57:GLY:O	2.06	0.88
43:8P:8:UNK:O	43:8P:12:UNK:N	2.07	0.88
44:AE:178:SER:OG	45:AF:347:ASN:OD1	1.92	0.88
44:AI:188:ILE:HD12	44:AI:425:LEU:HG	1.54	0.88
45:AL:73:MET:HE1	45:AL:92:PHE:HB3	1.54	0.88
44:BA:145:THR:OG1	46:BA:501:GTP:O1B	1.89	0.88
44:BC:102:ASN:HB3	44:BC:105:ARG:HG3	1.56	0.88
44:BG:217:LEU:HD22	44:BG:219:ILE:HD11	1.55	0.88
45:CB:15:GLN:O	45:CB:19:LYS:N	2.07	0.88
44:CC:19:ALA:HB2	44:CC:228:ASN:HB3	1.55	0.88
44:CI:287:SER:N	44:CI:290:GLU:OE2	2.07	0.88
44:CK:191:THR:HG21	44:CK:425:LEU:HD11	1.56	0.88
45:CL:77:ARG:HB3	45:CL:83:GLN:HE22	1.38	0.88
44:DA:284:GLU:HG3	44:DA:286:LEU:HD22	1.56	0.88
44:DK:175:PRO:HD2	44:DK:176:GLN:N	1.86	0.88
44:EG:103:PHE:HB2	44:EG:186:ASN:HB3	1.56	0.88
44:FE:76:ASP:OD2	45:FF:46:ARG:NH2	2.06	0.88
44:GG:236:SER:O	44:GG:320:ARG:NH2	2.07	0.88
45:HN:101:TRP:HB3	45:HN:398:TYR:HE1	1.39	0.88
45:IF:11:GLN:HB3	45:IF:72:THR:HG21	1.56	0.88
45:JJ:203:ASP:OD2	45:JJ:302:ALA:N	2.07	0.88
44:JK:96:LYS:HE3	44:JK:96:LYS:HA	1.53	0.88
44:KA:217:LEU:HD13	44:KA:367:ASP:HB3	1.55	0.88
44:KI:90:GLU:HG3	44:KI:121:ARG:HH12	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:287:PRO:HD2	45:KN:288:GLU:OE1	1.71	0.88
44:LE:51:THR:HG21	44:LE:243:ARG:HB3	1.53	0.88
44:LI:3:GLU:HG3	44:LI:51:THR:HA	1.56	0.88
44:LM:54:SER:HB3	44:LM:64:ARG:HH22	1.38	0.88
44:LM:288:VAL:HG21	44:LM:323:VAL:HG13	1.53	0.88
44:MC:288:VAL:HG23	44:MC:291:ILE:HD11	1.55	0.88
44:NC:11:GLN:HA	44:NC:14:ILE:HB	1.54	0.88
45:NJ:177:ASP:N	45:NJ:181:GLU:OE2	2.07	0.88
44:QE:326:LYS:HD3	45:QF:212:PHE:HZ	1.39	0.88
44:QG:20:CYS:O	44:QG:24:PHE:N	2.07	0.88
45:QJ:253:LEU:HD21	45:QJ:316:LEU:HD11	1.54	0.88
45:QL:375:GLN:HE21	45:QL:379:LYS:HG3	1.38	0.88
44:RC:117:LEU:O	44:RC:121:ARG:N	2.06	0.88
45:RF:207:LEU:HB3	45:RF:225:LEU:HD22	1.56	0.88
45:RF:380:ARG:O	45:RF:384:GLN:N	2.05	0.88
44:RM:230:LEU:HD12	44:RM:275:ILE:HD13	1.54	0.88
44:SE:317:MET:HA	44:SE:377:MET:HA	1.53	0.88
45:SJ:258:ILE:HD13	44:SK:407:TRP:HH2	1.39	0.88
45:TF:28:HIS:ND1	45:TF:43:GLN:O	2.07	0.88
45:UD:86:ARG:NH2	45:VD:281:TYR:O	2.07	0.88
44:WC:204:LEU:HD13	44:WC:231:ILE:HD11	1.54	0.88
45:WF:299:MET:HG3	45:WF:305:PRO:HG3	1.55	0.88
44:WK:310:GLY:O	44:WK:342:GLN:NE2	2.05	0.88
20:1J:148:GLU:OE2	45:IH:219:THR:N	2.04	0.88
15:1V:146:PRO:CG	44:LK:414:GLU:CD	2.37	0.88
34:4F:209:PHE:HB2	45:HN:48:ASN:HD21	1.36	0.88
35:4R:112:ARG:HH22	45:BH:276:ARG:HD2	1.38	0.88
37:5D:41:SER:HB3	45:KN:179:VAL:HG21	1.55	0.88
44:BC:311:LYS:HD2	44:BC:342:GLN:HG3	1.56	0.88
45:BD:316:LEU:HA	45:BD:352:SER:HB2	1.53	0.88
45:CD:87:PRO:HA	45:CD:90:PHE:HD2	1.38	0.88
45:CD:330:MET:CE	45:CD:349:ILE:HD13	2.01	0.88
45:DN:156:ARG:NH1	45:DN:156:ARG:O	2.07	0.88
44:EE:217:LEU:HD22	44:EE:367:ASP:HB3	1.54	0.88
45:EF:46:ARG:HH22	44:EG:73:THR:HA	1.38	0.88
45:EF:206:ALA:HB1	45:EF:210:ILE:HD13	1.55	0.88
44:EK:175:PRO:CG	44:EK:304:LYS:HE2	2.02	0.88
45:EL:135:ILE:HB	45:EL:166:THR:HG22	1.56	0.88
45:FD:156:ARG:NH2	45:FD:159:TYR:O	2.05	0.88
45:FL:3:GLU:HA	45:FL:49:VAL:HG13	1.56	0.88
44:GI:98:ASP:O	44:GI:105:ARG:NH1	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GJ:203:ASP:OD2	45:GJ:302:ALA:N	2.07	0.88
44:GK:100:ALA:HA	45:GL:252:LYS:HE2	1.55	0.88
44:GM:301:MET:HE1	44:GM:307:PRO:HD3	1.55	0.88
45:HB:229:VAL:HG12	45:HB:233:MET:HE2	1.55	0.88
44:IA:11:GLN:HG3	44:IA:74:VAL:HG21	1.55	0.88
45:IB:5:VAL:HG12	45:IB:62:ARG:HD3	1.56	0.88
45:ID:325:GLU:HA	45:ID:328:GLU:HG2	1.55	0.88
45:IL:49:VAL:HG21	45:IL:241:ARG:HD3	1.54	0.88
44:JK:26:LEU:HD13	44:JK:363:VAL:HG12	1.53	0.88
44:KA:88:HIS:HB3	44:KA:91:GLN:HB3	1.55	0.88
45:LF:69:GLU:HG2	45:LF:96:GLY:HA2	1.53	0.88
45:LN:202:ILE:HD11	45:LN:268:ILE:HD11	1.54	0.88
44:OE:216:ASN:HD22	44:OE:275:ILE:HB	1.37	0.88
44:OE:338:LYS:O	44:OE:339:ARG:NH1	2.07	0.88
44:PE:288:VAL:HG11	44:PE:327:ASP:HB3	1.52	0.88
44:PG:356:ASN:OD1	44:PG:357:TYR:N	2.07	0.88
44:QA:316:SER:OG	44:QA:378:ILE:O	1.92	0.88
45:QN:139:LEU:HD22	45:QN:170:VAL:HG12	1.55	0.88
45:RB:319:GLY:HA2	45:RB:357:PRO:HD3	1.54	0.88
44:RC:27:GLU:OE1	44:RC:243:ARG:NH2	2.05	0.88
44:RC:75:ILE:HG21	44:RC:94:SER:HB3	1.56	0.88
44:RM:312:TYR:HE2	44:RM:341:ILE:HG23	1.38	0.88
44:SA:273:ALA:O	44:SA:375:VAL:N	2.07	0.88
44:SC:236:SER:O	44:SC:240:ALA:N	2.07	0.88
45:SD:46:ARG:NH2	44:SE:76:ASP:OD2	2.07	0.88
45:TB:227:HIS:O	45:TB:231:ALA:N	2.07	0.88
45:TB:377:MET:SD	45:TB:380:ARG:NH2	2.47	0.88
44:TE:209:ILE:HG22	44:TE:227:LEU:HD22	1.55	0.88
44:TG:311:LYS:HG3	44:TG:342:GLN:HG3	1.53	0.88
45:UJ:14:ASN:HB3	45:UJ:73:MET:HE1	1.53	0.88
44:WI:323:VAL:HG12	44:WI:373:ARG:HD3	1.55	0.88
27:1W:118:GLY:HA2	45:LF:276:ARG:HH12	1.35	0.88
5:2D:190:THR:HA	44:FI:219:ILE:HD11	1.53	0.88
13:3T:74:ILE:HD12	44:MK:159:VAL:HG23	1.52	0.88
37:5C:67:ALA:HB1	38:5G:69:LYS:HE3	1.53	0.88
45:AD:271:ALA:HB3	45:AD:365:VAL:HG23	1.56	0.88
45:AH:202:ILE:HD11	45:AH:268:ILE:HD11	1.53	0.88
44:BI:36:MET:HG3	44:BI:37:PRO:HD2	1.54	0.88
44:DI:311:LYS:NZ	44:DI:344:VAL:HA	1.89	0.88
44:EG:288:VAL:HG11	44:EG:327:ASP:CB	2.04	0.88
44:EI:141:VAL:HG11	44:EI:172:TYR:HD1	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FC:230:LEU:HD12	44:FC:275:ILE:HD13	1.55	0.88
45:FN:52:ASN:ND2	45:FN:60:VAL:O	2.06	0.88
44:GC:311:LYS:N	44:GC:382:THR:OG1	2.07	0.88
45:GL:271:ALA:HB2	45:GL:298:ASN:HD21	1.38	0.88
44:II:288:VAL:HA	44:II:291:ILE:HG12	1.54	0.88
44:JG:178:SER:OG	45:JH:347:ASN:ND2	2.06	0.88
44:MA:179:THR:HG21	46:MA:501:GTP:H3'	1.54	0.88
45:MB:167:PHE:CE2	45:MB:233:MET:HG3	2.09	0.88
45:ML:318:ARG:NH1	45:ML:356:ILE:O	2.05	0.88
44:NM:69:ASP:HB3	44:NM:75:ILE:HD11	1.56	0.88
44:OA:207:GLU:HA	44:OA:210:TYR:HD2	1.39	0.88
44:OG:209:ILE:HD12	44:OG:227:LEU:HD23	1.53	0.88
45:PD:70:PRO:O	45:PD:74:ASP:N	2.05	0.88
44:PG:14:ILE:HG12	44:PG:75:ILE:HD11	1.56	0.88
45:QB:40:SER:O	45:QB:43:GLN:HG2	1.73	0.88
44:QI:278:ALA:HB2	44:QI:369:ALA:HB2	1.55	0.88
44:QK:424:ASP:O	44:QK:428:LEU:N	2.05	0.88
44:RC:83:TYR:HB3	44:RC:86:LEU:HB3	1.54	0.88
45:RD:314:SER:HA	45:RD:350:LYS:HG2	1.54	0.88
45:SB:206:ALA:O	45:SB:210:ILE:N	2.06	0.88
44:TC:234:VAL:HG12	44:TC:238:LEU:HD23	1.56	0.88
45:VL:42:LEU:HA	45:VL:45:GLU:HG3	1.54	0.88
26:1R:152:LEU:HA	45:AF:78:ALA:O	1.73	0.88
26:2R:300:LYS:NZ	45:CH:75:SER:OG	2.07	0.88
32:3I:228:ARG:HD3	45:GL:297:LYS:HB3	1.56	0.88
35:6R:268:GLU:HB2	45:DN:280:GLN:CG	1.78	0.88
44:AG:280:LYS:HG3	44:MG:89:PRO:HG2	1.56	0.88
44:BC:141:VAL:HG22	44:BC:187:SER:HA	1.54	0.88
44:BM:224:TYR:HE2	45:BN:246:LEU:HD11	1.38	0.88
45:CB:178:THR:HB	45:CB:181:GLU:HG3	1.56	0.88
45:CN:314:SER:N	45:CN:368:VAL:O	2.06	0.88
44:DA:82:THR:HA	44:DA:84:ARG:CZ	2.03	0.88
44:DE:76:ASP:HA	44:DE:79:ARG:CZ	2.04	0.88
45:DJ:245:GLN:O	44:DK:11:GLN:NE2	2.07	0.88
44:DK:258:ASN:OD1	45:DL:179:VAL:HG22	1.73	0.88
44:EA:311:LYS:O	44:EA:382:THR:N	2.05	0.88
45:EL:324:LYS:HG3	44:EM:210:TYR:CE2	2.09	0.88
44:FC:69:ASP:OD1	44:FC:70:LEU:N	2.07	0.88
44:FC:377:MET:HE1	44:FC:379:SER:HB3	1.54	0.88
44:FK:248:LEU:HD11	48:FN:501:GDP:H5''	1.56	0.88
44:FK:372:MET:SD	44:FK:373:ARG:NH1	2.47	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:71:GLU:OE1	44:FM:74:VAL:N	2.05	0.88
44:IM:81:GLY:O	44:IM:84:ARG:HG3	1.73	0.88
44:JC:80:THR:HA	44:JC:84:ARG:HE	1.38	0.88
44:JE:241:SER:HA	44:JE:356:ASN:HD21	1.38	0.88
44:KA:268:MET:HE3	44:KA:380:ASN:HB2	1.56	0.88
44:KE:178:SER:OG	45:KF:347:ASN:ND2	2.05	0.88
44:KG:276:ILE:HD11	44:KG:280:LYS:HD2	1.55	0.88
45:LJ:289:LEU:HD11	45:LJ:363:MET:HB3	1.56	0.88
44:MG:271:SER:OG	44:MG:301:MET:SD	2.32	0.88
44:NK:404:PHE:CE1	45:NL:259:PRO:HA	2.08	0.88
44:PA:367:ASP:OD1	44:PA:368:LEU:N	2.07	0.88
44:PC:425:LEU:O	44:PC:429:GLU:N	2.06	0.88
45:PF:20:PHE:CE2	45:PF:24:ILE:O	2.27	0.88
44:PM:328:VAL:HG11	44:PM:353:VAL:HG21	1.53	0.88
44:RI:68:LEU:HD21	44:RI:118:CYS:HB2	1.55	0.88
44:RI:72:PRO:O	44:RI:76:ASP:N	2.05	0.88
44:RK:102:ASN:OD1	44:RK:105:ARG:N	2.06	0.88
45:RL:259:PRO:O	44:RM:406:HIS:NE2	2.06	0.88
45:SB:331:LEU:HD22	44:SC:177:VAL:HG23	1.53	0.88
44:SE:188:ILE:HG23	44:SE:425:LEU:HD11	1.55	0.88
45:SH:236:VAL:HG13	45:SH:237:THR:HG23	1.54	0.88
45:TF:167:PHE:HE2	45:TF:233:MET:HG2	1.35	0.88
44:UK:89:PRO:CG	44:VI:280:LYS:HG2	2.03	0.88
45:VB:314:SER:HA	45:VB:350:LYS:HB3	1.54	0.88
45:VD:309:ARG:HE	45:VD:342:VAL:HA	1.36	0.88
45:WD:23:VAL:O	45:WD:27:GLU:N	2.06	0.88
45:WD:25:SER:O	45:WD:30:ILE:N	2.07	0.88
45:WD:207:LEU:HD22	45:WD:225:LEU:CD2	2.03	0.88
45:WD:274:THR:HG22	45:WD:282:ARG:HH21	1.39	0.88
45:WJ:257:LEU:HD11	45:WJ:314:SER:HB2	1.56	0.88
9:OH:359:VAL:HG21	44:HM:282:TYR:HE2	1.38	0.88
12:3S:149:HIS:HB2	44:WK:164:LYS:HD3	1.53	0.88
37:5D:60:GLY:CA	45:KN:385:PHE:HB3	2.04	0.88
35:5R:442:PHE:HE1	35:5R:457:GLU:HG2	1.38	0.88
40:6F:124:ARG:HA	40:6F:128:THR:HG23	1.56	0.88
44:AA:89:PRO:HG3	44:BA:280:LYS:HD2	1.56	0.88
45:CF:309:ARG:HH22	45:CF:339:SER:HA	1.39	0.88
44:DI:136:LEU:HD23	44:DI:167:LEU:HB2	1.55	0.88
44:DK:350:GLY:HA2	45:DL:179:VAL:HG12	1.53	0.88
44:EE:76:ASP:OD1	44:EE:79:ARG:NH2	2.07	0.88
44:EI:147:SER:O	44:EI:151:SER:N	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:323:THR:HG23	44:EM:223:THR:HA	1.53	0.88
45:GF:202:ILE:HG23	45:GF:300:MET:HB3	1.55	0.88
45:GL:23:VAL:HG11	45:GL:230:SER:HB3	1.56	0.88
44:GM:292:THR:HG22	44:GM:375:VAL:HG11	1.54	0.88
45:HF:257:LEU:HD11	45:HF:314:SER:HB2	1.54	0.88
45:HH:325:GLU:HA	45:HH:328:GLU:HG2	1.55	0.88
44:IK:240:ALA:HB1	44:IK:356:ASN:HD22	1.39	0.88
44:JC:178:SER:OG	45:JD:347:ASN:ND2	2.05	0.88
44:KG:60:LYS:NZ	44:LG:283:HIS:O	2.06	0.88
45:LB:293:MET:SD	45:LB:367:PHE:HB2	2.14	0.88
44:NM:141:VAL:HG11	44:NM:172:TYR:HD1	1.39	0.88
44:PK:325:PRO:HA	44:PK:328:VAL:HG12	1.55	0.88
44:RC:237:SER:OG	44:RC:320:ARG:NH1	2.07	0.88
45:RF:257:LEU:HD11	45:RF:314:SER:HB2	1.56	0.88
44:RI:8:HIS:CD2	44:RI:138:PHE:HB2	2.09	0.88
44:RK:258:ASN:HD22	44:RK:352:LYS:HB2	1.38	0.88
45:RN:113:ILE:HA	45:RN:116:VAL:HG12	1.53	0.88
44:SC:64:ARG:NH1	44:SC:129:CYS:SG	2.47	0.88
45:SD:169:VAL:HG22	45:SD:202:ILE:HB	1.53	0.88
44:SM:65:ALA:O	44:SM:91:GLN:NE2	2.07	0.88
44:TG:282:TYR:OH	44:TG:370:LYS:NZ	2.07	0.88
45:TJ:86:ARG:NH2	45:UJ:281:TYR:O	2.07	0.88
45:TN:297:LYS:HE3	45:TN:297:LYS:HA	1.53	0.88
44:UC:3:GLU:O	44:UC:133:GLN:N	2.05	0.88
44:UC:241:SER:OG	44:UC:250:VAL:O	1.91	0.88
44:UK:14:ILE:HD11	44:UK:69:ASP:HB2	1.54	0.88
44:VK:141:VAL:HG11	44:VK:172:TYR:HA	1.54	0.88
44:WC:141:VAL:HG11	44:WC:172:TYR:CD1	2.09	0.88
41:6G:173:GLU:OE1	41:6G:177:ARG:NH1	2.07	0.87
35:7R:389:ASN:H	45:EB:276:ARG:HH22	1.21	0.87
45:CN:343:GLU:OE2	45:CN:430:ALA:N	2.06	0.87
45:DJ:245:GLN:HB2	45:DJ:353:ILE:HD11	1.56	0.87
44:EC:242:LEU:HD21	44:EC:251:ASP:HA	1.54	0.87
44:GC:274:PRO:HD3	44:GC:291:ILE:HD11	1.54	0.87
44:GE:89:PRO:HD3	44:HE:280:LYS:HE3	1.54	0.87
45:GF:175:VAL:HG22	45:GF:205:GLU:HG3	1.53	0.87
45:GL:73:MET:O	45:GL:76:VAL:HG12	1.74	0.87
44:JC:68:LEU:HD23	44:JC:93:ILE:HB	1.55	0.87
45:JN:134:GLN:NE2	45:JN:233:MET:SD	2.47	0.87
44:KA:204:LEU:HD13	44:KA:302:MET:HE3	1.52	0.87
44:MI:328:VAL:HG21	44:MI:353:VAL:HG21	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:229:ARG:HH12	44:OC:363:VAL:HG21	1.39	0.87
44:PM:398:MET:HE2	45:PN:346:PRO:HD2	1.55	0.87
45:RD:372:THR:HA	45:RD:422:TYR:HE2	1.38	0.87
45:RF:4:ILE:HD12	45:RF:134:GLN:HG2	1.56	0.87
44:SC:91:GLN:HA	44:SC:121:ARG:NH2	1.88	0.87
44:SI:10:GLY:O	44:SI:14:ILE:N	2.06	0.87
44:TI:105:ARG:HA	44:TI:109:THR:HB	1.56	0.87
45:TN:317:PHE:N	45:TN:352:SER:O	2.07	0.87
44:UE:88:HIS:CE1	44:UE:90:GLU:HG2	2.09	0.87
44:UG:210:TYR:HE1	44:UG:227:LEU:HD11	1.37	0.87
44:VK:90:GLU:O	44:VK:121:ARG:NH2	2.06	0.87
44:VM:120:ASP:HA	44:VM:123:ARG:NH1	1.87	0.87
44:WE:88:HIS:HB3	44:WE:91:GLN:OE1	1.75	0.87
45:WF:372:THR:HA	45:WF:422:TYR:HE2	1.36	0.87
44:WG:14:ILE:HD11	44:WG:69:ASP:HB2	1.56	0.87
3:0B:91:ASN:HD21	44:JG:365:GLY:HA3	1.36	0.87
17:2B:62:THR:HA	44:LK:84:ARG:HH22	1.37	0.87
38:5H:121:GLU:N	38:5H:122:PHE:HB2	1.89	0.87
35:6R:337:GLY:HA2	35:6R:371:ILE:HD11	1.55	0.87
45:DJ:86:ARG:HD3	45:EJ:281:TYR:HB2	1.54	0.87
44:EE:188:ILE:HG12	44:EE:422:ARG:HH12	1.39	0.87
45:EJ:222:TYR:O	45:EJ:226:ASN:ND2	2.06	0.87
45:GB:244:GLY:HA3	45:GB:354:CYS:HA	1.56	0.87
44:HC:173:PRO:HG2	44:HC:391:LEU:HD21	1.54	0.87
44:HK:69:ASP:HB3	44:HK:75:ILE:HD11	1.55	0.87
44:HK:407:TRP:CZ3	45:HL:255:VAL:HA	2.09	0.87
44:IE:192:HIS:ND1	44:IE:424:ASP:OD2	2.06	0.87
45:IH:135:ILE:HG13	45:IH:152:ILE:HD11	1.54	0.87
45:JD:86:ARG:HB2	45:JD:89:ASN:ND2	1.87	0.87
44:JE:109:THR:OG1	44:JE:411:GLU:OE2	1.90	0.87
44:KC:338:LYS:HD2	44:KC:341:ILE:HD13	1.56	0.87
44:KE:14:ILE:HD11	44:KE:69:ASP:HB2	1.53	0.87
45:MB:144:GLY:N	48:MB:501:GDP:O2B	2.06	0.87
45:MB:161:ASP:OD2	45:MB:162:ARG:NH1	2.07	0.87
45:ML:268:ILE:HG13	45:ML:300:MET:HE2	1.54	0.87
44:NC:174:SER:HB3	44:NC:207:GLU:HG3	1.54	0.87
44:NC:326:LYS:HE3	45:NF:220:PRO:HD2	1.56	0.87
44:NK:268:MET:HE2	44:NK:378:ILE:HG22	1.54	0.87
44:PA:316:SER:N	44:PA:378:ILE:O	2.06	0.87
44:PC:70:LEU:HB3	44:PC:98:ASP:HA	1.55	0.87
44:QE:149:LEU:HD12	44:QE:153:LEU:HD21	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:330:MET:O	45:RF:334:GLN:N	2.05	0.87
45:RH:86:ARG:HD2	45:RH:89:ASN:OD1	1.73	0.87
44:SI:254:GLU:HG2	45:SJ:98:GLY:HA2	1.56	0.87
44:SI:261:PRO:HG3	45:SJ:394:PHE:HE1	1.37	0.87
45:TF:166:THR:OG1	45:TF:198:GLU:O	1.92	0.87
44:TG:77:GLU:OE1	44:TG:80:THR:OG1	1.92	0.87
44:VC:7:ILE:HB	44:VC:137:VAL:HG22	1.54	0.87
45:WB:240:LEU:HD12	45:WB:249:ASP:HA	1.56	0.87
44:WE:290:GLU:HA	44:WE:293:ASN:HB2	1.55	0.87
16:1X:2:LYS:HB2	45:MH:75:SER:HB3	1.55	0.87
37:5C:142:GLN:HE21	45:NL:245:GLN:HE21	1.22	0.87
35:5R:304:LEU:HA	45:CJ:78:ALA:O	1.75	0.87
35:7R:97:CYS:HB3	35:7R:180:ILE:HD13	1.55	0.87
45:DL:377:MET:N	45:DL:379:LYS:HE2	1.90	0.87
44:EI:55:GLU:HG3	44:EI:57:GLY:H	1.37	0.87
44:EK:129:CYS:HB2	44:EK:132:LEU:HD11	1.54	0.87
45:FF:239:CYS:SG	45:FF:248:SER:N	2.48	0.87
45:FH:99:ASN:HA	45:FH:142:GLY:HA3	1.55	0.87
45:FH:317:PHE:HA	45:FH:365:VAL:HG12	1.53	0.87
44:GK:311:LYS:N	44:GK:382:THR:OG1	2.06	0.87
44:HA:265:ILE:HD11	44:HA:435:VAL:HG21	1.54	0.87
45:JF:286:VAL:HG12	45:JF:329:GLN:HG3	1.54	0.87
45:JH:372:THR:HA	45:JH:422:TYR:CE1	2.09	0.87
45:KD:135:ILE:HB	45:KD:166:THR:HG22	1.56	0.87
45:LB:8:GLN:HE22	45:LB:17:GLY:HA3	1.39	0.87
45:LD:114:ASP:OD1	45:LD:115:SER:N	2.06	0.87
45:LJ:69:GLU:HG2	45:LJ:96:GLY:HA2	1.57	0.87
45:NL:323:THR:O	45:NL:327:ASP:N	2.06	0.87
45:NN:117:LEU:HB3	45:NN:121:ARG:HH12	1.40	0.87
45:OJ:45:GLU:O	45:OJ:46:ARG:HD3	1.73	0.87
45:PH:121:ARG:NH2	45:PH:158:GLU:OE1	2.06	0.87
45:PL:86:ARG:HG3	45:PL:89:ASN:H	1.40	0.87
45:SD:319:GLY:N	45:SD:354:CYS:O	2.08	0.87
45:SJ:86:ARG:NE	45:SJ:86:ARG:HA	1.89	0.87
45:TD:271:ALA:O	45:TD:365:VAL:N	2.07	0.87
44:TM:398:MET:HB3	44:TM:403:ALA:HB3	1.53	0.87
45:UB:345:ILE:HA	44:UC:398:MET:HE3	1.56	0.87
44:UG:174:SER:OG	44:UG:206:ASN:OD1	1.91	0.87
45:UL:113:ILE:HD13	45:UL:154:LYS:HE2	1.56	0.87
44:VA:136:LEU:HD22	44:VA:167:LEU:HB2	1.54	0.87
45:VJ:342:VAL:CG1	45:VJ:345:ILE:HG22	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0F:36:LYS:NZ	44:DE:94:SER:OG	2.07	0.87
16:1X:103:ASN:HB2	44:MC:282:TYR:CE2	2.09	0.87
27:2W:270:GLU:OE1	44:LK:279:GLU:N	2.01	0.87
35:6R:28:THR:HB	44:LK:46:ASP:HB2	1.56	0.87
45:DD:63:ALA:O	45:DD:89:ASN:ND2	2.06	0.87
45:DD:405:GLU:HA	45:DD:408:PHE:HD2	1.37	0.87
44:EC:72:PRO:O	44:EC:76:ASP:N	2.08	0.87
45:EF:320:ARG:HH22	45:EF:356:ILE:HD13	1.38	0.87
45:EL:97:ALA:HB3	45:EL:143:THR:HB	1.57	0.87
45:EN:77:ARG:HG2	45:EN:83:GLN:HE22	1.40	0.87
45:FF:139:LEU:HD13	45:FF:168:SER:HB3	1.57	0.87
44:FG:326:LYS:HE2	45:FJ:219:THR:HB	1.57	0.87
44:GI:241:SER:OG	44:GI:250:VAL:O	1.92	0.87
45:GN:31:ASP:HB2	45:GN:35:THR:HG22	1.55	0.87
45:JB:207:LEU:HB3	45:JB:225:LEU:HD22	1.57	0.87
45:JF:7:ILE:HG23	45:JF:64:ILE:HB	1.55	0.87
44:KA:3:GLU:HG2	44:KA:64:ARG:HH12	1.38	0.87
44:KC:14:ILE:HD11	44:KC:69:ASP:HB2	1.55	0.87
45:KF:325:GLU:HA	45:KF:328:GLU:HG2	1.57	0.87
44:KM:296:PHE:HE2	44:KM:335:ILE:HG12	1.36	0.87
45:LB:7:ILE:HG22	45:LB:64:ILE:HD11	1.53	0.87
45:LB:21:TRP:CH2	45:LB:61:PRO:HB3	2.09	0.87
45:LN:31:ASP:OD1	45:LN:34:GLY:N	2.06	0.87
44:MK:181:VAL:HG12	45:ML:256:ASN:HD22	1.40	0.87
44:OC:101:ASN:HA	44:OC:144:GLY:H	1.38	0.87
45:OD:170:VAL:HG13	45:OD:201:VAL:HG21	1.55	0.87
45:OF:177:ASP:N	45:OF:181:GLU:OE2	2.06	0.87
45:OH:49:VAL:HG21	45:OH:241:ARG:HG2	1.56	0.87
45:OL:318:ARG:N	45:OL:364:ALA:O	2.05	0.87
45:RF:145:SER:HB2	45:RF:188:SER:HB3	1.54	0.87
44:RK:257:THR:HA	45:RL:397:TRP:HH2	1.36	0.87
45:SL:2:ARG:H	45:SL:129:CYS:HB3	1.38	0.87
44:TA:171:ILE:HD13	46:TA:501:GTP:C2	2.08	0.87
44:TA:214:ARG:HA	44:TA:219:ILE:H	1.38	0.87
45:TJ:107:THR:HG21	45:TJ:401:GLU:HB3	1.55	0.87
44:TM:291:ILE:O	44:TM:295:ALA:N	2.07	0.87
45:UN:91:VAL:HG21	45:UN:116:VAL:HG12	1.54	0.87
45:VB:1:MET:SD	45:VB:2:ARG:N	2.47	0.87
45:VD:99:ASN:HB3	45:VD:180:VAL:HG11	1.56	0.87
45:VD:328:GLU:O	45:VD:332:ASN:N	2.07	0.87
45:VF:144:GLY:O	45:VF:148:GLY:N	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:5:VAL:HA	45:VJ:62:ARG:NH1	1.89	0.87
44:WG:67:PHE:HB2	44:WG:92:LEU:HG	1.57	0.87
28:2C:232:PHE:CE2	45:JJ:53:GLU:HB2	2.09	0.87
13:2T:127:GLU:HB3	44:AG:337:THR:HG22	1.53	0.87
37:5D:109:ASN:H	44:NM:280:LYS:N	1.67	0.87
38:5F:213:TYR:HA	38:5F:216:LYS:HG2	1.57	0.87
38:5G:120:GLU:HG3	38:5G:121:GLU:HG2	1.55	0.87
35:6R:80:ARG:CZ	44:MM:38:SER:HA	2.04	0.87
45:AJ:299:MET:HG3	45:AJ:305:PRO:HG3	1.57	0.87
45:AN:139:LEU:HD13	45:AN:168:SER:HB3	1.54	0.87
44:BM:102:ASN:OD1	44:BM:105:ARG:N	2.07	0.87
44:BM:174:SER:OG	44:BM:206:ASN:OD1	1.93	0.87
45:CJ:167:PHE:CE2	45:CJ:233:MET:HG2	2.10	0.87
45:GF:290:THR:HA	45:GF:293:MET:HG2	1.56	0.87
44:GK:437:ILE:O	45:GN:391:ARG:NH2	2.06	0.87
45:HF:130:LEU:HB3	45:HF:162:ARG:HD2	1.57	0.87
45:HL:114:ASP:OD1	45:HL:115:SER:N	2.08	0.87
44:JC:275:ILE:HG23	44:JC:368:LEU:HD11	1.55	0.87
44:JE:268:MET:HB3	44:JE:380:ASN:HB2	1.57	0.87
44:JE:311:LYS:HA	44:JE:342:GLN:HE22	1.39	0.87
44:LA:377:MET:HE3	44:LA:379:SER:HB3	1.56	0.87
45:LN:318:ARG:HG2	45:LN:357:PRO:HA	1.54	0.87
44:MG:237:SER:HA	44:MG:320:ARG:NH2	1.89	0.87
45:MJ:230:SER:HA	45:MJ:233:MET:HE3	1.56	0.87
45:MN:173:PRO:HG3	45:MN:380:ARG:HD3	1.56	0.87
44:OG:288:VAL:HG11	44:OG:327:ASP:HB3	1.56	0.87
45:OH:234:SER:O	45:OH:318:ARG:NH2	2.07	0.87
45:OJ:203:ASP:OD2	45:OJ:302:ALA:N	2.06	0.87
45:PF:20:PHE:CE1	45:PF:24:ILE:C	2.46	0.87
44:PG:88:HIS:HB3	44:PG:91:GLN:HG2	1.57	0.87
44:QM:166:LYS:HE2	44:QM:198:THR:HA	1.56	0.87
44:RC:141:VAL:HG11	44:RC:172:TYR:HA	1.56	0.87
44:RC:225:THR:O	44:RC:229:ARG:N	2.06	0.87
45:RL:199:CYS:O	45:RL:266:PHE:N	2.07	0.87
45:RL:251:ARG:NH2	44:RM:98:ASP:O	2.07	0.87
44:RM:24:PHE:O	44:RM:28:HIS:N	2.05	0.87
45:TF:207:LEU:HD23	45:TF:300:MET:HE2	1.55	0.87
44:TI:311:LYS:HG3	44:TI:342:GLN:HG3	1.57	0.87
45:TL:322:SER:HA	44:TM:223:THR:HB	1.54	0.87
44:UC:329:ASN:O	44:UC:333:ALA:N	2.06	0.87
45:UF:252:LYS:HG3	44:UG:101:ASN:HD21	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:172:TYR:HB3	44:UG:173:PRO:HD2	1.55	0.87
44:UG:352:LYS:HD3	45:UH:178:THR:HG23	1.57	0.87
45:UL:109:GLY:O	45:UL:113:ILE:N	2.07	0.87
44:UM:384:ILE:O	44:UM:387:VAL:HG22	1.75	0.87
1:6H:167:LYS:CG	45:FB:360:GLY:O	2.21	0.87
35:6R:436:GLU:OE1	45:FN:280:GLN:N	2.07	0.87
44:BC:209:ILE:HG23	44:BC:227:LEU:HD22	1.56	0.87
44:BK:306:ASP:OD1	44:BK:308:ARG:HD3	1.75	0.87
45:CD:86:ARG:HB2	45:CD:89:ASN:HD22	1.40	0.87
45:DB:257:LEU:HD11	45:DB:314:SER:HB2	1.54	0.87
45:DB:420:SER:O	45:DB:423:GLN:HG3	1.75	0.87
44:DG:11:GLN:HG3	44:DG:74:VAL:HG11	1.57	0.87
44:DI:380:ASN:OD1	44:DI:381:SER:N	2.08	0.87
45:EF:100:ASN:HD22	45:EF:103:LYS:HB2	1.39	0.87
44:FA:259:LEU:HD21	44:FA:316:SER:HB2	1.57	0.87
45:FN:256:ASN:HB2	45:FN:350:LYS:HD2	1.54	0.87
44:GG:244:PHE:HB2	44:GG:356:ASN:HD21	1.39	0.87
44:HE:174:SER:OG	44:HE:206:ASN:OD1	1.92	0.87
45:ID:302:ALA:HB3	45:ID:377:MET:HE1	1.54	0.87
45:IL:66:MET:SD	45:IL:88:ASP:HB3	2.14	0.87
45:LL:378:PHE:O	45:LL:382:ALA:N	2.07	0.87
45:LN:237:THR:HG23	45:LN:241:ARG:HH21	1.40	0.87
45:MB:5:VAL:HG23	45:MB:62:ARG:HG2	1.56	0.87
44:MG:221:ARG:NH1	45:MH:325:GLU:OE1	2.08	0.87
44:NC:222:PRO:O	45:ND:322:SER:OG	1.91	0.87
45:ND:136:THR:HG22	45:ND:167:PHE:HB2	1.57	0.87
45:NL:178:THR:HG22	45:NL:180:VAL:H	1.37	0.87
44:OK:254:GLU:HG3	45:ON:98:GLY:HA2	1.57	0.87
45:QF:318:ARG:HD3	45:QF:358:PRO:HD3	1.57	0.87
44:TM:91:GLN:CA	44:TM:121:ARG:HH12	1.88	0.87
44:UC:320:ARG:HB2	44:UC:359:PRO:HA	1.54	0.87
45:UD:324:LYS:HD3	44:UE:222:PRO:CG	2.04	0.87
45:UN:207:LEU:HD13	45:UN:225:LEU:HB3	1.54	0.87
44:VM:301:MET:HG3	44:VM:303:ALA:H	1.39	0.87
45:WB:73:MET:HA	45:WB:76:VAL:HG12	1.57	0.87
45:WH:384:GLN:O	45:WH:387:ALA:N	2.07	0.87
25:1P:302:LYS:HZ2	45:TD:362:LYS:HG3	1.31	0.87
27:2W:240:PHE:CE1	35:6R:10:PRO:HD2	2.08	0.87
45:BD:388:MET:HG3	45:BD:393:ALA:HB3	1.56	0.87
44:BI:208:ALA:HA	44:BI:304:LYS:HE3	1.56	0.87
44:CI:350:GLY:HA2	45:CJ:179:VAL:HG12	1.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:204:LEU:HD22	44:CM:231:ILE:HG12	1.57	0.87
44:CM:326:LYS:HE2	45:CN:219:THR:HA	1.55	0.87
44:DI:264:ARG:NH1	44:DI:431:ASP:OD2	2.08	0.87
44:FC:68:LEU:HD21	44:FC:118:CYS:HB2	1.56	0.87
45:FD:293:MET:HE3	45:FD:367:PHE:HB2	1.57	0.87
44:FI:60:LYS:NZ	44:FI:85:GLN:O	2.07	0.87
45:GN:139:LEU:HD11	45:GN:185:ALA:HA	1.57	0.87
45:IB:139:LEU:HD13	45:IB:168:SER:HB3	1.56	0.87
45:IN:239:CYS:SG	45:IN:248:SER:N	2.47	0.87
44:KI:89:PRO:HD3	44:LI:283:HIS:CD2	2.09	0.87
44:KI:397:LEU:HD21	45:KJ:344:TRP:HA	1.56	0.87
45:LB:383:GLU:HA	45:LB:386:THR:HG22	1.55	0.87
44:LG:177:VAL:HG21	45:LH:327:ASP:HB3	1.54	0.87
45:LN:221:THR:HG23	45:LN:223:GLY:H	1.37	0.87
45:MF:135:ILE:HB	45:MF:166:THR:HG22	1.56	0.87
45:ON:332:ASN:HB2	45:ON:336:LYS:HZ1	1.40	0.87
44:PA:71:GLU:OE1	44:PA:73:THR:HG22	1.74	0.87
45:PB:319:GLY:N	45:PB:354:CYS:O	2.05	0.87
44:QM:320:ARG:HB3	44:QM:356:ASN:HB2	1.56	0.87
45:RD:132:GLY:HA3	45:RD:163:ILE:HG13	1.56	0.87
45:RF:4:ILE:O	45:RF:62:ARG:NH2	2.07	0.87
44:SG:157:LEU:HA	44:SG:160:ASP:HB2	1.55	0.87
45:SH:133:PHE:O	45:SH:165:GLU:N	2.06	0.87
44:SI:257:THR:HA	45:SJ:397:TRP:CZ2	2.10	0.87
44:SK:122:ILE:O	44:SK:126:ALA:N	2.06	0.87
44:TC:269:LEU:N	44:TC:379:SER:O	2.07	0.87
45:TD:28:HIS:O	45:TD:43:GLN:NE2	2.08	0.87
44:UI:135:PHE:HD2	44:UI:166:LYS:HG2	1.40	0.87
44:VA:221:ARG:HH21	45:VB:321:MET:HG3	1.39	0.87
45:VB:246:LEU:HD13	45:VB:353:ILE:HD13	1.57	0.87
44:VI:65:ALA:O	44:VI:91:GLN:NE2	2.08	0.87
44:WM:286:LEU:HG	44:WM:373:ARG:HH21	1.37	0.87
14:1U:238:SER:H	45:WF:33:THR:HG21	1.29	0.87
27:1W:235:THR:HB	45:LB:280:GLN:HE21	1.40	0.87
15:2V:106:TYR:OH	44:LE:192:HIS:O	1.93	0.87
45:AB:54:ALA:CB	45:BB:281:TYR:O	2.21	0.87
45:AB:132:GLY:HA2	45:AB:162:ARG:HB3	1.54	0.87
45:BD:247:ASN:O	45:BD:252:LYS:NZ	2.08	0.87
44:CM:262:TYR:OH	45:CN:391:ARG:O	1.93	0.87
45:DB:325:GLU:HA	45:DB:328:GLU:HG2	1.55	0.87
44:DM:169:PHE:HB3	44:DM:204:LEU:HD11	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:204:ASN:OD1	48:EB:501:GDP:N2	2.07	0.87
44:FC:210:TYR:HH	45:FD:323:THR:HG1	0.96	0.87
45:FF:173:PRO:HG3	45:FF:380:ARG:HD3	1.55	0.87
44:FK:26:LEU:HD23	44:FK:363:VAL:HG22	1.57	0.87
45:GN:204:ASN:HA	45:GN:207:LEU:HG	1.56	0.87
44:HC:276:ILE:HG23	44:HC:281:ALA:HB2	1.56	0.87
44:HM:294:SER:O	44:HM:297:GLU:HG2	1.75	0.87
44:IC:291:ILE:HD13	44:IC:373:ARG:HB3	1.56	0.87
44:IG:176:GLN:NE2	44:IG:177:VAL:HG23	1.90	0.87
44:II:326:LYS:HG2	45:IL:220:PRO:HD2	1.54	0.87
45:KL:10:GLY:HA2	45:KL:143:THR:HG23	1.57	0.87
44:KM:275:ILE:HA	44:KM:368:LEU:HD11	1.57	0.87
45:LL:7:ILE:HG12	45:LL:151:LEU:HD21	1.56	0.87
45:MD:114:ASP:OD1	45:MD:115:SER:N	2.07	0.87
44:ME:265:ILE:HG23	44:ME:432:TYR:OH	1.74	0.87
45:MN:22:GLU:HG2	45:MN:81:PHE:HD2	1.40	0.87
44:NA:229:ARG:HD3	44:NA:363:VAL:HG21	1.55	0.87
45:NB:172:SER:HB3	45:NB:173:PRO:HD2	1.55	0.87
45:ND:341:PHE:HB3	45:ND:348:ASN:HD21	1.40	0.87
45:NH:202:ILE:HD11	45:NH:268:ILE:HG12	1.57	0.87
45:NL:113:ILE:HD13	45:NL:150:LEU:HD22	1.55	0.87
44:PG:7:ILE:N	44:PG:136:LEU:O	2.06	0.87
44:PG:347:CYS:HA	45:PJ:388:MET:HE1	1.55	0.87
44:RM:203:MET:HB2	44:RM:269:LEU:HB3	1.53	0.87
44:SA:387:VAL:HA	44:SA:390:ARG:HG2	1.55	0.87
45:SB:224:ASP:HA	45:SB:227:HIS:HB2	1.57	0.87
45:SB:252:LYS:HA	44:SC:100:ALA:HB1	1.55	0.87
45:SH:103:LYS:O	45:SH:107:THR:OG1	1.91	0.87
44:TG:136:LEU:HD11	44:TG:167:LEU:HD22	1.57	0.87
45:TJ:24:ILE:O	45:TJ:27:GLU:N	2.06	0.87
45:UB:289:LEU:O	45:UB:293:MET:N	2.07	0.87
45:UD:145:SER:O	45:UD:149:THR:OG1	1.93	0.87
45:VN:372:THR:HA	45:VN:422:TYR:HE2	1.39	0.87
44:WI:259:LEU:HD11	44:WI:316:SER:HB3	1.56	0.87
45:WJ:260:PHE:HB3	45:WJ:261:PRO:HD2	1.55	0.87
27:1W:106:PHE:HB3	45:LF:362:LYS:CE	2.03	0.87
37:5A:79:LEU:HD21	45:NB:245:GLN:HE21	1.38	0.87
37:5D:39:ARG:NH2	44:KK:268:MET:HG2	1.89	0.87
37:5D:108:ARG:HG2	44:NM:281:ALA:HB2	1.57	0.87
35:6R:249:LEU:HG	44:CM:370:LYS:HZ3	1.36	0.87
35:6R:466:TRP:CZ3	45:EN:77:ARG:NH1	2.42	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:188:ILE:HG22	44:AK:421:ALA:HB1	1.57	0.87
45:CF:361:LEU:CA	45:CF:362:LYS:HB2	2.04	0.87
44:CG:145:THR:HG22	46:CG:501:GTP:PG	2.15	0.87
45:CL:259:PRO:HD2	45:CL:260:PHE:N	1.85	0.87
44:CM:276:ILE:HG21	44:CM:281:ALA:HB2	1.57	0.87
45:DL:318:ARG:N	45:DL:364:ALA:O	2.08	0.87
44:EC:8:HIS:O	44:EC:68:LEU:HB2	1.74	0.87
45:ED:144:GLY:N	48:ED:501:GDP:O1B	2.07	0.87
44:EE:321:GLY:HA3	44:EE:373:ARG:HH12	1.39	0.87
45:EF:248:SER:HA	45:EF:252:LYS:HD2	1.56	0.87
45:EL:259:PRO:HA	44:EM:404:PHE:CE1	2.10	0.87
44:FC:288:VAL:HG21	44:FC:327:ASP:HB3	1.55	0.87
45:FF:289:LEU:HD21	45:FF:363:MET:HB3	1.56	0.87
44:FK:141:VAL:HA	44:FK:147:SER:HB3	1.57	0.87
45:GF:5:VAL:HG23	45:GF:62:ARG:HG2	1.57	0.87
45:GJ:293:MET:HE3	45:GJ:367:PHE:HB2	1.56	0.87
45:JJ:378:PHE:HA	45:JJ:381:VAL:HG12	1.54	0.87
44:KK:66:VAL:HG11	44:KK:122:ILE:HD11	1.55	0.87
44:LA:47:ASP:OD1	44:LA:50:ASN:ND2	2.08	0.87
44:LC:349:THR:HG23	45:LF:179:VAL:HA	1.56	0.87
45:LF:114:ASP:OD1	45:LF:115:SER:N	2.08	0.87
45:LF:252:LYS:HG2	45:LF:350:LYS:HE2	1.56	0.87
45:LL:86:ARG:HG3	45:ML:281:TYR:HD2	1.40	0.87
44:LM:322:ASP:OD1	44:LM:373:ARG:NH1	2.07	0.87
45:MN:135:ILE:HG13	45:MN:152:ILE:HD11	1.56	0.87
45:NB:8:GLN:NE2	45:NB:13:GLY:O	2.07	0.87
44:NC:241:SER:OG	44:NC:250:VAL:O	1.93	0.87
45:PF:314:SER:HB3	45:PF:368:VAL:HG13	1.56	0.87
44:PG:76:ASP:OD1	44:PG:79:ARG:NH2	2.05	0.87
44:PM:205:ASP:OD2	44:PM:304:LYS:N	2.08	0.87
45:QB:113:ILE:HD13	45:QB:150:LEU:HD22	1.54	0.87
44:QG:422:ARG:HH12	44:QG:426:ALA:HB2	1.37	0.87
45:RL:25:SER:O	45:RL:30:ILE:N	2.08	0.87
44:SA:140:SER:OG	46:SA:501:GTP:O4'	1.93	0.87
45:SJ:248:SER:HA	45:SJ:252:LYS:HD2	1.57	0.87
44:SM:77:GLU:N	44:SM:80:THR:HG1	1.73	0.87
44:SM:311:LYS:N	44:SM:382:THR:OG1	2.07	0.87
45:SN:66:MET:HA	45:SN:91:VAL:HG23	1.54	0.87
45:SN:77:ARG:O	45:SN:83:GLN:NE2	2.07	0.87
45:SN:374:ILE:HA	45:SN:377:MET:HE2	1.54	0.87
44:TI:97:GLU:OE2	44:TI:105:ARG:NH1	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:114:ILE:HA	44:UC:117:LEU:HD13	1.57	0.87
45:UJ:325:GLU:HA	45:UJ:328:GLU:HG2	1.57	0.87
45:VL:116:VAL:HA	45:VL:119:VAL:HG12	1.56	0.87
44:WG:91:GLN:HG3	44:WG:92:LEU:HD12	1.57	0.87
17:1B:238:TYR:HA	44:JC:84:ARG:HH12	1.40	0.86
16:3X:75:LEU:HD12	45:MN:280:GLN:HE22	1.36	0.86
37:5C:138:ARG:HH12	45:NL:357:PRO:HD2	1.39	0.86
43:8R:273:UNK:O	43:8R:277:UNK:N	2.08	0.86
45:AF:173:PRO:HG3	45:AF:380:ARG:HD3	1.56	0.86
45:BN:132:GLY:HA2	45:BN:162:ARG:HB3	1.57	0.86
44:CE:71:GLU:OE1	44:CE:73:THR:N	2.06	0.86
44:CM:67:PHE:HB2	44:CM:92:LEU:HD13	1.57	0.86
45:DF:274:THR:HG1	45:DF:279:GLN:N	1.73	0.86
45:DJ:296:ALA:HA	45:DJ:299:MET:HE1	1.57	0.86
44:DM:259:LEU:HD23	44:DM:314:ALA:HB1	1.57	0.86
45:ED:313:ALA:HA	45:ED:369:GLY:HA2	1.56	0.86
45:EF:6:HIS:NE2	45:EF:8:GLN:OE1	2.08	0.86
44:EG:208:ALA:O	44:EG:212:ILE:N	2.07	0.86
44:EG:288:VAL:HA	44:EG:291:ILE:CG1	2.05	0.86
45:EH:166:THR:HB	45:EH:200:MET:HG3	1.55	0.86
45:EN:135:ILE:O	45:EN:167:PHE:N	2.08	0.86
45:HD:86:ARG:HB2	45:HD:89:ASN:ND2	1.90	0.86
44:HI:328:VAL:HG11	44:HI:353:VAL:HG21	1.57	0.86
45:IB:156:ARG:NH1	45:IB:159:TYR:O	2.08	0.86
44:JA:350:GLY:HA2	45:JD:179:VAL:HG23	1.57	0.86
44:KC:242:LEU:HD11	44:KC:252:ILE:HD11	1.55	0.86
45:KD:135:ILE:N	45:KD:165:GLU:O	2.08	0.86
44:KI:223:THR:N	44:KI:226:ASN:OD1	2.07	0.86
45:KJ:91:VAL:HG21	45:KJ:116:VAL:HG22	1.56	0.86
45:KL:238:CYS:HB2	45:KL:318:ARG:HD3	1.56	0.86
44:LC:104:ALA:HB2	44:LC:413:MET:HE2	1.56	0.86
44:LE:188:ILE:HG23	44:LE:425:LEU:HD11	1.55	0.86
44:LM:304:LYS:HD2	44:LM:304:LYS:O	1.75	0.86
44:MC:222:PRO:HD2	45:MD:324:LYS:HG3	1.54	0.86
44:NA:224:TYR:HE2	45:NB:246:LEU:HD11	1.38	0.86
45:NN:211:CYS:HA	45:NN:215:LEU:HB2	1.55	0.86
45:OB:109:GLY:O	45:OB:113:ILE:N	2.08	0.86
45:QD:47:ILE:HG12	45:QD:51:TYR:HB2	1.55	0.86
44:RM:11:GLN:HA	44:RM:14:ILE:HD12	1.54	0.86
45:SD:398:TYR:HB3	45:SD:403:MET:HE3	1.56	0.86
45:SL:184:ASN:O	45:SL:188:SER:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:212:ILE:O	44:SM:216:ASN:N	2.07	0.86
44:TM:315:CYS:N	44:TM:350:GLY:O	2.08	0.86
44:VK:206:ASN:HA	44:VK:209:ILE:HD12	1.54	0.86
44:VM:2:ARG:HG3	44:VM:51:THR:HG23	1.55	0.86
44:VM:272:TYR:HD1	44:VM:376:CYS:HB2	1.40	0.86
44:WG:132:LEU:HD12	44:WG:164:LYS:HE2	1.56	0.86
44:WK:304:LYS:O	44:WK:304:LYS:HD2	1.75	0.86
45:WN:156:ARG:NH1	45:WN:195:ASN:O	2.08	0.86
45:WN:240:LEU:HD13	45:WN:250:LEU:HG	1.55	0.86
1:6H:382:PHE:CD1	44:FK:364:PRO:CG	2.58	0.86
18:1F:31:PHE:HD1	44:HK:364:PRO:HB3	1.38	0.86
38:5G:148:GLN:OE1	38:5G:149:ARG:NH2	2.08	0.86
40:6F:64:THR:HA	45:JF:279:GLN:HE22	1.38	0.86
45:AH:86:ARG:HH11	45:BH:281:TYR:HB2	1.39	0.86
44:AM:167:LEU:HG	44:AM:200:VAL:HG11	1.56	0.86
44:BA:221:ARG:NH2	45:BB:322:SER:C	2.28	0.86
44:BG:326:LYS:HE2	45:BJ:208:TYR:HD2	1.38	0.86
45:CH:267:MET:HG2	45:CH:299:MET:HE2	1.57	0.86
45:CJ:256:ASN:HD22	45:CJ:350:LYS:HD2	1.40	0.86
45:DN:260:PHE:HB2	45:DN:263:LEU:HD13	1.56	0.86
45:ED:13:GLY:HA2	45:ED:16:ILE:HD12	1.56	0.86
45:FF:285:THR:HG22	45:FF:287:PRO:HD2	1.55	0.86
44:GA:88:HIS:HB3	44:GA:91:GLN:HG2	1.55	0.86
45:GB:100:ASN:ND2	45:GB:401:GLU:OE1	2.08	0.86
45:GH:167:PHE:HE2	45:GH:233:MET:HG3	1.38	0.86
44:GK:66:VAL:HG11	44:GK:122:ILE:HD11	1.56	0.86
44:HC:404:PHE:CE1	45:HD:259:PRO:HA	2.10	0.86
44:HE:273:ALA:HA	44:HE:275:ILE:HD12	1.57	0.86
44:HI:51:THR:HG21	44:HI:243:ARG:HB3	1.57	0.86
44:HK:71:GLU:OE1	44:HK:73:THR:HG22	1.73	0.86
44:HK:242:LEU:HD11	44:HK:252:ILE:HG13	1.57	0.86
44:IC:217:LEU:HD13	44:IC:367:ASP:HB3	1.57	0.86
44:JE:273:ALA:HA	44:JE:275:ILE:HD12	1.56	0.86
44:JI:256:GLN:O	45:JL:397:TRP:NE1	2.08	0.86
45:JN:334:GLN:HA	45:JN:341:PHE:HE2	1.39	0.86
45:MB:52:ASN:OD1	45:MB:62:ARG:NH2	2.09	0.86
45:MN:17:GLY:HA2	45:MN:20:PHE:CE1	2.09	0.86
44:NG:174:SER:OG	44:NG:206:ASN:OD1	1.93	0.86
45:NJ:164:MET:HB3	45:NJ:197:ASP:HB2	1.57	0.86
45:OF:133:PHE:O	45:OF:165:GLU:N	2.08	0.86
45:QL:68:LEU:HG	45:QL:96:GLY:HA2	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:130:LEU:HB3	45:RH:162:ARG:HD2	1.54	0.86
44:RI:348:PRO:HD2	45:RJ:388:MET:CE	2.05	0.86
44:SA:280:LYS:HA	44:SA:283:HIS:HD2	1.40	0.86
45:TD:116:VAL:HA	45:TD:119:VAL:HG12	1.57	0.86
44:TK:174:SER:OG	44:TK:206:ASN:OD1	1.93	0.86
44:UM:284:GLU:HG3	44:UM:286:LEU:HD22	1.54	0.86
44:VE:60:LYS:NZ	44:VE:85:GLN:O	2.08	0.86
44:VK:76:ASP:OD2	45:VL:46:ARG:NH2	2.08	0.86
45:WD:5:VAL:HG12	45:WD:62:ARG:HD3	1.57	0.86
45:WF:113:ILE:HA	45:WF:116:VAL:HG12	1.57	0.86
44:WI:224:TYR:HD1	44:WI:227:LEU:HD12	1.39	0.86
20:1J:314:VAL:HA	44:IK:372:MET:HE3	1.55	0.86
21:1K:15:ASN:HD21	44:NC:359:PRO:HD3	1.37	0.86
35:6R:538:PHE:HD1	35:6R:578:TYR:CE1	1.92	0.86
44:BI:141:VAL:HG11	44:BI:172:TYR:HA	1.57	0.86
44:BK:348:PRO:HG3	45:BN:384:GLN:HG3	1.57	0.86
44:CI:68:LEU:HD21	44:CI:118:CYS:HB2	1.55	0.86
45:CN:113:ILE:HD13	45:CN:150:LEU:HD22	1.56	0.86
44:DK:195:LEU:HD12	44:DK:196:GLU:HG2	1.57	0.86
45:EF:135:ILE:N	45:EF:165:GLU:O	2.08	0.86
45:EJ:314:SER:HB2	45:EJ:350:LYS:HB3	1.56	0.86
45:EJ:390:ARG:HH11	45:EJ:391:ARG:HD3	1.40	0.86
44:EK:269:LEU:HD13	44:EK:305:CYS:HB3	1.54	0.86
45:EN:54:ALA:HA	45:FN:283:ALA:HB2	1.57	0.86
44:FG:231:ILE:O	44:FG:235:ILE:HD12	1.75	0.86
45:GL:114:ASP:OD1	45:GL:115:SER:N	2.08	0.86
45:GN:68:LEU:HG	45:GN:96:GLY:H	1.39	0.86
44:IA:241:SER:OG	44:IA:249:ASN:ND2	2.07	0.86
45:KB:87:PRO:HD2	45:LB:281:TYR:HE2	1.39	0.86
44:KM:296:PHE:CE2	44:KM:335:ILE:HG12	2.08	0.86
44:LG:325:PRO:O	44:LG:328:VAL:HG12	1.74	0.86
44:MK:394:LYS:HG2	45:ML:346:PRO:HG2	1.57	0.86
45:NH:6:HIS:NE2	45:NH:8:GLN:OE1	2.08	0.86
45:OD:105:HIS:NE2	45:OD:150:LEU:HB2	1.91	0.86
45:PB:299:MET:HG3	45:PB:305:PRO:HG3	1.54	0.86
44:RM:143:GLY:O	44:RM:147:SER:OG	1.92	0.86
44:SE:89:PRO:HG2	44:TE:280:LYS:HE2	1.54	0.86
44:SG:99:ALA:HA	44:SG:110:ILE:HD11	1.56	0.86
45:SH:83:GLN:O	45:TH:281:TYR:OH	1.93	0.86
44:SI:154:LEU:HA	44:SI:157:LEU:HB2	1.57	0.86
45:TF:288:GLU:O	45:TF:291:GLN:HG3	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:256:ASN:HD22	45:UB:350:LYS:HD2	1.40	0.86
45:UF:68:LEU:HB2	45:UF:147:MET:HE1	1.55	0.86
44:UI:5:ILE:HD11	44:UI:132:LEU:HD11	1.56	0.86
45:VF:130:LEU:O	45:VF:162:ARG:NH1	2.08	0.86
44:VG:333:ALA:HA	44:VG:336:LYS:HB2	1.55	0.86
44:WA:294:SER:HA	44:WA:297:GLU:HG3	1.54	0.86
45:WJ:325:GLU:HA	45:WJ:328:GLU:HG2	1.55	0.86
44:WK:141:VAL:HG23	44:WK:147:SER:HA	1.58	0.86
45:WN:16:ILE:O	45:WN:20:PHE:N	2.07	0.86
7:OF:150:TYR:HE2	45:FD:55:THR:HA	1.37	0.86
22:1L:308:ARG:HH21	44:BG:217:LEU:HD21	1.40	0.86
13:1T:128:GLU:HA	44:AC:339:ARG:HH22	1.38	0.86
24:2O:181:MET:HE3	45:VL:280:GLN:HB3	1.57	0.86
37:5D:44:SER:HB3	45:KN:393:ALA:H	1.37	0.86
38:5G:203:PHE:CD1	44:LK:423:GLU:OE2	2.28	0.86
35:6R:413:ILE:HG21	35:6R:417:TYR:CE2	2.07	0.86
42:8N:44:UNK:O	42:8N:48:UNK:N	2.07	0.86
45:AF:73:MET:CE	45:AF:92:PHE:HB3	2.05	0.86
44:BE:242:LEU:HD11	44:BE:252:ILE:HD11	1.57	0.86
44:BM:141:VAL:HG11	44:BM:172:TYR:HA	1.58	0.86
45:CB:135:ILE:HG13	45:CB:152:ILE:HD11	1.57	0.86
45:CN:317:PHE:HA	45:CN:365:VAL:HG22	1.57	0.86
44:DA:214:ARG:NH1	44:DA:219:ILE:O	2.08	0.86
44:DG:132:LEU:HD11	44:DG:164:LYS:HG2	1.55	0.86
44:DI:141:VAL:HG11	44:DI:172:TYR:HD1	1.38	0.86
44:EG:311:LYS:HD2	44:EG:342:GLN:HG3	1.58	0.86
45:EN:118:ASP:H	45:EN:119:VAL:HG23	1.39	0.86
44:FC:312:TYR:O	44:FC:344:VAL:N	2.06	0.86
44:FK:349:THR:HG1	45:FN:176:SER:HG	0.87	0.86
45:GL:135:ILE:HG21	45:GL:152:ILE:HD11	1.57	0.86
44:GM:171:ILE:CA	44:GM:204:LEU:HB2	2.02	0.86
45:HD:19:LYS:HA	45:HD:22:GLU:OE2	1.75	0.86
45:HL:211:CYS:HA	45:HL:215:LEU:HD12	1.57	0.86
44:IK:221:ARG:NH1	45:IL:325:GLU:OE1	2.07	0.86
44:JA:19:ALA:HB2	44:JA:228:ASN:HB3	1.56	0.86
44:JC:188:ILE:HG22	44:JC:421:ALA:HB1	1.55	0.86
45:JF:210:ILE:HA	45:JF:297:LYS:HZ1	1.39	0.86
44:KG:23:LEU:HD21	44:KG:236:SER:HB3	1.57	0.86
44:MK:31:GLN:HG3	44:MK:32:PRO:HD2	1.57	0.86
44:MM:271:SER:OG	44:MM:377:MET:SD	2.34	0.86
44:OA:147:SER:O	44:OA:151:SER:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:309:ARG:N	45:OF:372:THR:OG1	2.07	0.86
45:PH:173:PRO:HG3	45:PH:380:ARG:HD3	1.54	0.86
45:QH:314:SER:HA	45:QH:350:LYS:HB3	1.54	0.86
44:RC:273:ALA:O	44:RC:375:VAL:N	2.08	0.86
44:SE:188:ILE:HG13	44:SE:395:PHE:HB2	1.54	0.86
44:TC:311:LYS:HD2	44:TC:342:GLN:HG3	1.55	0.86
45:UB:317:PHE:O	45:UB:354:CYS:N	2.08	0.86
44:UI:70:LEU:HA	44:UI:95:GLY:HA3	1.57	0.86
44:UI:257:THR:HA	45:UJ:397:TRP:CH2	2.11	0.86
44:VI:204:LEU:HD13	44:VI:231:ILE:HD13	1.58	0.86
44:WA:211:ASP:O	44:WA:215:ARG:N	2.08	0.86
32:3I:197:GLN:HE21	44:FK:126:ALA:HB3	1.39	0.86
37:5C:40:VAL:HG12	44:KG:264:ARG:HG3	1.57	0.86
37:5D:60:GLY:N	45:KN:382:ALA:O	2.07	0.86
38:5G:22:LYS:HZ1	38:5G:29:LYS:HE2	1.40	0.86
45:AB:7:ILE:HB	45:AB:135:ILE:HD12	1.55	0.86
44:AG:71:GLU:OE1	44:AG:73:THR:HG22	1.75	0.86
45:AH:174:LYS:HE2	45:AH:205:GLU:HG3	1.57	0.86
44:BA:101:ASN:HA	44:BA:144:GLY:HA3	1.56	0.86
45:CB:237:THR:HB	45:CB:250:LEU:HD21	1.57	0.86
45:CB:255:VAL:HA	44:CC:407:TRP:CZ3	2.10	0.86
45:CB:256:ASN:OD1	44:CC:181:VAL:HG22	1.74	0.86
44:DE:76:ASP:OD1	44:DE:79:ARG:NH2	2.09	0.86
44:EI:320:ARG:HA	44:EI:356:ASN:HB3	1.56	0.86
45:EL:289:LEU:HD11	45:EL:363:MET:HG3	1.57	0.86
44:FK:291:ILE:HD12	44:FK:375:VAL:HB	1.56	0.86
44:FK:319:TYR:HD2	44:FK:323:VAL:HG11	1.40	0.86
44:FK:325:PRO:HG3	44:FK:355:ILE:HD13	1.57	0.86
45:FN:8:GLN:HE21	45:FN:65:LEU:HG	1.40	0.86
45:FN:272:PRO:CD	45:FN:364:ALA:HA	2.04	0.86
45:GH:1:MET:O	45:GH:2:ARG:HG2	1.75	0.86
45:GH:178:THR:HB	45:GH:181:GLU:HG3	1.57	0.86
45:GL:268:ILE:HG22	45:GL:368:VAL:HG13	1.56	0.86
45:GL:382:ALA:O	45:GL:386:THR:HG23	1.75	0.86
44:HM:270:SER:HB3	44:HM:378:ILE:HD13	1.57	0.86
45:HN:389:PHE:O	45:HN:392:LYS:HD3	1.75	0.86
44:JA:178:SER:OG	45:JB:347:ASN:ND2	2.09	0.86
45:JH:86:ARG:HD2	45:KH:281:TYR:HB3	1.56	0.86
44:JI:14:ILE:HG21	44:JI:74:VAL:HG11	1.56	0.86
45:JJ:11:GLN:NE2	48:JJ:501:GDP:O2A	2.08	0.86
44:JM:234:VAL:O	44:JM:237:SER:OG	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:379:LYS:HG3	45:LN:419:VAL:HG21	1.56	0.86
45:MF:322:SER:HG	45:MF:323:THR:N	1.72	0.86
44:NA:271:SER:O	44:NA:377:MET:N	2.08	0.86
44:NK:288:VAL:HG21	44:NK:323:VAL:HG12	1.55	0.86
44:OI:338:LYS:O	44:OI:339:ARG:NH1	2.08	0.86
45:PD:318:ARG:HB3	45:PD:357:PRO:HA	1.56	0.86
44:PE:7:ILE:O	44:PE:138:PHE:N	2.08	0.86
45:PL:313:ALA:HB3	45:PL:349:ILE:HG12	1.58	0.86
44:QI:88:HIS:HB3	44:QI:91:GLN:HB3	1.58	0.86
44:RA:228:ASN:OD1	44:RA:229:ARG:HD2	1.75	0.86
44:RA:254:GLU:CG	45:RB:98:GLY:HA2	2.06	0.86
45:RB:322:SER:OG	44:RC:222:PRO:O	1.94	0.86
45:RD:351:SER:HB2	44:RE:179:THR:HG23	1.57	0.86
45:RJ:267:MET:O	45:RJ:369:GLY:N	2.09	0.86
45:SH:256:ASN:HD22	45:SH:350:LYS:HD2	1.39	0.86
44:SK:141:VAL:HG11	44:SK:172:TYR:HD1	1.41	0.86
45:TJ:177:ASP:N	45:TJ:181:GLU:OE2	2.09	0.86
45:UD:324:LYS:HD3	44:UE:222:PRO:HG2	1.58	0.86
44:UE:3:GLU:O	44:UE:133:GLN:N	2.08	0.86
45:VF:17:GLY:HA2	45:VF:20:PHE:HB3	1.57	0.86
45:VN:381:VAL:O	45:VN:385:PHE:N	2.07	0.86
45:WD:207:LEU:HD11	45:WD:228:LEU:HD12	1.56	0.86
45:WH:25:SER:O	45:WH:30:ILE:N	2.07	0.86
2:1A:74:SER:HA	44:AE:219:ILE:HD11	1.58	0.86
21:2K:291:GLN:HG2	45:FL:55:THR:HB	1.55	0.86
36:4S:192:MET:HE1	45:AD:424:GLN:HB2	1.57	0.86
16:4X:135:ARG:HH22	45:LH:276:ARG:HG3	1.37	0.86
37:5D:109:ASN:H	44:NM:279:GLU:C	1.75	0.86
45:CD:11:GLN:NE2	48:CD:501:GDP:O3B	2.08	0.86
44:CG:84:ARG:HG3	44:CG:85:GLN:OE1	1.75	0.86
45:CH:372:THR:HA	45:CH:422:TYR:HE1	1.39	0.86
45:CJ:97:ALA:HB2	45:CJ:143:THR:HB	1.57	0.86
45:CN:296:ALA:HA	45:CN:305:PRO:HG2	1.54	0.86
45:EL:247:ASN:OD1	44:EM:11:GLN:NE2	2.09	0.86
45:FN:130:LEU:HD11	45:FN:133:PHE:HE1	1.40	0.86
44:GA:407:TRP:HZ3	45:GB:255:VAL:HA	1.36	0.86
44:HI:254:GLU:HG3	45:HL:98:GLY:HA2	1.57	0.86
44:IA:88:HIS:HE1	44:IA:90:GLU:HG2	1.40	0.86
44:IG:204:LEU:HD13	44:IG:231:ILE:HD12	1.55	0.86
45:JL:16:ILE:HD12	45:JL:229:VAL:HG11	1.58	0.86
44:KC:107:HIS:HA	44:KC:152:LEU:HD21	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:388:PHE:O	44:KI:392:ASP:N	2.08	0.86
45:LB:3:GLU:HG3	45:LB:49:VAL:HA	1.56	0.86
44:NE:11:GLN:HG3	44:NE:74:VAL:HG11	1.56	0.86
44:NG:179:THR:HG21	46:NG:501:GTP:H3'	1.56	0.86
45:OD:313:ALA:HA	45:OD:369:GLY:HA2	1.57	0.86
44:OG:17:GLY:HA2	44:OG:20:CYS:HB2	1.57	0.86
45:ON:315:ALA:O	45:ON:352:SER:OG	1.93	0.86
45:PF:68:LEU:HD23	45:PF:97:ALA:HA	1.58	0.86
45:QF:374:ILE:HA	45:QF:377:MET:HE1	1.58	0.86
44:RM:108:TYR:O	44:RM:112:LYS:NZ	2.08	0.86
44:SM:288:VAL:HG21	44:SM:323:VAL:HG23	1.57	0.86
44:TI:9:VAL:HG23	44:TI:139:ASN:HB3	1.56	0.86
45:TJ:221:THR:HG23	45:TJ:223:GLY:H	1.39	0.86
45:TN:19:LYS:NZ	45:TN:230:SER:OG	2.09	0.86
44:UE:223:THR:HG23	44:UE:225:THR:HG22	1.55	0.86
45:UH:282:ARG:NH1	45:UH:283:ALA:O	2.08	0.86
44:WA:60:LYS:NZ	44:WA:62:VAL:HA	1.90	0.86
44:WG:71:GLU:OE1	45:WH:247:ASN:ND2	2.08	0.86
1:6H:286:GLU:OE1	45:FH:227:HIS:CE1	1.95	0.86
28:4C:239:LYS:HE2	45:JN:36:TYR:HE2	1.37	0.86
35:4R:105:GLU:HG3	45:BH:279:GLN:HE21	1.38	0.86
37:5D:110:ARG:HB2	44:NM:280:LYS:CG	2.04	0.86
38:5H:119:GLU:O	38:5H:124:TYR:OH	1.93	0.86
35:6R:538:PHE:CZ	35:6R:578:TYR:HB2	2.10	0.86
44:AA:271:SER:OG	44:AA:272:TYR:N	2.08	0.86
45:AH:7:ILE:HG22	45:AH:64:ILE:HB	1.57	0.86
45:AH:341:PHE:HB3	45:AH:348:ASN:HD21	1.41	0.86
45:BD:210:ILE:O	45:BD:214:THR:OG1	1.93	0.86
44:CG:145:THR:N	46:CG:501:GTP:O2G	2.08	0.86
45:CJ:362:LYS:HG3	45:CJ:363:MET:SD	2.16	0.86
44:CK:387:VAL:HA	44:CK:390:ARG:HG2	1.58	0.86
44:CM:7:ILE:N	44:CM:136:LEU:O	2.07	0.86
45:CN:17:GLY:HA2	45:CN:20:PHE:HB3	1.55	0.86
44:DK:102:ASN:OD1	44:DK:105:ARG:N	2.07	0.86
45:ED:21:TRP:CZ3	45:ED:61:PRO:HB3	2.10	0.86
45:EH:172:SER:OG	45:EH:205:GLU:OE1	1.94	0.86
45:EH:199:CYS:SG	45:EH:266:PHE:N	2.49	0.86
44:EM:314:ALA:O	44:EM:380:ASN:N	2.08	0.86
44:HA:316:SER:HB2	44:HA:352:LYS:CE	2.04	0.86
44:HG:71:GLU:OE1	44:HG:73:THR:N	2.09	0.86
45:HH:178:THR:HG22	45:HH:180:VAL:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:102:ASN:OD1	44:HI:105:ARG:N	2.06	0.86
44:HM:259:LEU:HD22	44:HM:314:ALA:HB1	1.58	0.86
44:IA:4:VAL:HG12	44:IA:51:THR:HG22	1.57	0.86
45:IB:23:VAL:HG21	45:IB:230:SER:HB3	1.57	0.86
45:MD:253:LEU:HD11	45:MD:316:LEU:HD21	1.56	0.86
44:ME:384:ILE:CD1	44:ME:433:GLU:HA	2.05	0.86
45:MJ:162:ARG:HE	45:MJ:163:ILE:H	1.23	0.86
44:NG:3:GLU:OE1	44:NG:64:ARG:NH1	2.08	0.86
44:NI:346:TRP:O	45:NL:391:ARG:NH1	2.09	0.86
44:OE:259:LEU:HD11	44:OE:316:SER:HB2	1.56	0.86
44:OM:175:PRO:HG2	44:OM:304:LYS:HG2	1.57	0.86
44:PC:271:SER:OG	44:PC:301:MET:SD	2.33	0.86
44:RK:217:LEU:HD22	44:RK:367:ASP:HB3	1.58	0.86
45:RL:318:ARG:HD3	45:RL:358:PRO:HD3	1.58	0.86
44:SC:377:MET:HE1	44:SC:379:SER:HB3	1.57	0.86
45:SD:413:SER:O	45:SD:417:ASP:N	2.07	0.86
44:SI:32:PRO:HB3	44:SI:83:TYR:HE1	1.39	0.86
44:SM:91:GLN:HE22	44:SM:125:LEU:HD11	1.41	0.86
45:TD:421:GLU:HA	45:TD:424:GLN:HB2	1.58	0.86
44:TE:175:PRO:HB3	44:TE:390:ARG:HD3	1.58	0.86
44:UA:172:TYR:HE2	44:UA:203:MET:HA	1.40	0.86
44:UA:315:CYS:N	44:UA:350:GLY:O	2.09	0.86
45:UL:237:THR:HB	45:UL:250:LEU:HD21	1.58	0.86
44:UM:316:SER:HA	44:UM:352:LYS:HB3	1.56	0.86
44:WC:20:CYS:HA	44:WC:232:ALA:HB1	1.57	0.86
44:WI:242:LEU:HD21	44:WI:251:ASP:HA	1.58	0.86
44:WM:144:GLY:O	44:WM:148:GLY:N	2.08	0.86
45:WN:130:LEU:O	45:WN:162:ARG:NH1	2.07	0.86
1:6H:266:LYS:HZ2	44:FE:364:PRO:CD	1.80	0.86
1:6H:286:GLU:HB2	45:FH:227:HIS:NE2	1.91	0.86
5:0D:170:PRO:HB3	44:EC:80:THR:HG22	1.55	0.86
11:1Q:115:LYS:NZ	44:AC:196:GLU:OE2	2.09	0.86
35:6R:300:PHE:CD2	45:CN:77:ARG:NH1	2.44	0.86
35:6R:323:LEU:CG	45:CN:276:ARG:HD2	2.06	0.86
44:BC:11:GLN:HG3	44:BC:74:VAL:HG11	1.58	0.86
44:CK:14:ILE:O	44:CK:18:ASN:N	2.06	0.86
45:DB:289:LEU:HD11	45:DB:363:MET:HB3	1.57	0.86
44:DI:101:ASN:HA	44:DI:144:GLY:H	1.40	0.86
44:DK:335:ILE:HD13	44:DK:338:LYS:HZ1	1.40	0.86
45:EB:64:ILE:HA	45:EB:89:ASN:HB3	1.57	0.86
45:ED:22:GLU:HG2	45:ED:81:PHE:CD1	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:176:GLN:NE2	44:FM:207:GLU:OE1	2.08	0.86
45:GN:320:ARG:HG2	45:GN:355:ASP:HB3	1.55	0.86
45:IB:257:LEU:HD12	45:IB:258:ILE:HB	1.54	0.86
44:IK:31:GLN:HB3	44:IK:32:PRO:HD2	1.57	0.86
44:IM:60:LYS:NZ	44:IM:85:GLN:O	2.08	0.86
44:IM:269:LEU:HD22	44:IM:384:ILE:HD13	1.58	0.86
44:JE:205:ASP:OD1	44:JE:303:ALA:HA	1.76	0.86
44:JE:398:MET:HE1	44:JE:403:ALA:HB3	1.54	0.86
45:JF:178:THR:HB	45:JF:181:GLU:HB2	1.57	0.86
45:JN:217:LEU:HB3	45:JN:220:PRO:HG3	1.55	0.86
45:LN:382:ALA:HA	45:LN:415:MET:HE1	1.57	0.86
45:NB:178:THR:HB	45:NB:181:GLU:HG3	1.58	0.86
45:NN:193:VAL:HG23	45:NN:264:HIS:HE1	1.40	0.86
44:OC:74:VAL:HG23	44:OC:75:ILE:HD12	1.57	0.86
44:OE:138:PHE:HZ	44:OE:235:ILE:HD12	1.40	0.86
44:OK:407:TRP:HZ3	45:OL:255:VAL:HA	1.40	0.86
44:OM:115:VAL:HG21	44:OM:152:LEU:HG	1.57	0.86
45:PH:318:ARG:HH11	45:PH:358:PRO:HG3	1.39	0.86
45:QJ:239:CYS:HB3	45:QJ:316:LEU:HD23	1.58	0.86
45:QL:314:SER:HB2	45:QL:350:LYS:HE3	1.57	0.86
45:QN:28:HIS:ND1	45:QN:43:GLN:O	2.08	0.86
44:RM:284:GLU:HG3	44:RM:286:LEU:HD22	1.57	0.86
44:UM:173:PRO:HG2	44:UM:391:LEU:HD11	1.58	0.86
44:VA:311:LYS:HD2	44:VA:342:GLN:HG3	1.56	0.86
45:VH:135:ILE:HG13	45:VH:152:ILE:HD11	1.56	0.86
44:VK:407:TRP:CZ3	45:VL:255:VAL:HA	2.10	0.86
44:WE:259:LEU:HD21	44:WE:316:SER:HB3	1.58	0.86
45:WH:247:ASN:O	45:WH:252:LYS:NZ	2.07	0.86
45:WN:106:TYR:OH	45:WN:407:GLU:OE1	1.94	0.86
6:0E:121:ARG:NH2	35:7R:579:ASN:O	2.08	0.86
2:1A:36:ARG:HE	45:MF:356:ILE:HD11	1.35	0.86
35:7R:215:LEU:HA	35:7R:218:ILE:HG13	1.58	0.86
44:AA:68:LEU:HD21	44:AA:118:CYS:HB2	1.58	0.86
44:AA:224:TYR:HE2	45:AB:246:LEU:HD11	1.41	0.86
45:AB:372:THR:HA	45:AB:422:TYR:HE2	1.41	0.86
45:BJ:73:MET:HE1	45:BJ:92:PHE:HB3	1.58	0.86
44:CA:294:SER:O	44:CA:300:ASN:ND2	2.07	0.86
45:CH:20:PHE:HA	45:CH:233:MET:SD	2.15	0.86
44:CK:304:LYS:CD	44:CK:387:VAL:HG11	2.06	0.86
45:CL:19:LYS:HG2	45:CL:227:HIS:HA	1.57	0.86
45:CL:109:GLY:O	45:CL:113:ILE:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DD:260:PHE:HB3	45:DD:261:PRO:HD2	1.56	0.86
44:DE:102:ASN:OD1	44:DE:105:ARG:N	2.09	0.86
45:EL:12:CYS:O	45:EL:16:ILE:HD12	1.76	0.86
45:FD:61:PRO:HG3	45:FD:84:LEU:HB3	1.57	0.86
44:GA:23:LEU:HD11	44:GA:361:THR:HG23	1.55	0.86
45:GH:68:LEU:HD21	45:GH:147:MET:SD	2.15	0.86
45:GN:309:ARG:N	45:GN:372:THR:OG1	2.09	0.86
45:HH:286:VAL:HA	45:HH:289:LEU:HD12	1.57	0.86
44:IC:80:THR:HA	44:IC:84:ARG:HD2	1.57	0.86
45:KJ:114:ASP:OD1	45:KJ:115:SER:N	2.09	0.86
45:MF:25:SER:HG	45:MF:51:TYR:HH	1.24	0.86
44:NE:261:PRO:HD2	44:NE:262:TYR:N	1.91	0.86
45:NH:324:LYS:O	45:NH:328:GLU:N	2.08	0.86
44:OC:212:ILE:HD11	44:OC:300:ASN:HA	1.57	0.86
44:OM:50:ASN:O	44:OM:64:ARG:NH1	2.09	0.86
44:PC:191:THR:O	44:PC:195:LEU:N	2.09	0.86
44:PG:292:THR:HG21	44:PG:331:SER:HB3	1.56	0.86
44:QC:330:ALA:O	44:QC:334:THR:N	2.07	0.86
44:QI:288:VAL:HA	44:QI:373:ARG:NH1	1.89	0.86
44:QK:288:VAL:O	44:QK:292:THR:HG23	1.74	0.86
44:QM:216:ASN:ND2	44:QM:275:ILE:O	2.07	0.86
44:RA:242:LEU:HD11	44:RA:252:ILE:HD11	1.58	0.86
45:RF:86:ARG:HH21	45:RF:87:PRO:HG2	1.41	0.86
45:RF:268:ILE:HG22	45:RF:368:VAL:HG22	1.55	0.86
44:SG:259:LEU:O	44:SG:380:ASN:ND2	2.09	0.86
44:SI:405:VAL:HG12	44:SI:409:VAL:HG23	1.57	0.86
44:SK:322:ASP:OD1	44:SK:373:ARG:NH1	2.08	0.86
45:SL:210:ILE:O	45:SL:214:THR:OG1	1.91	0.86
45:TF:275:SER:OG	45:TF:278:SER:HB3	1.75	0.86
44:TM:9:VAL:HG13	44:TM:139:ASN:HB2	1.57	0.86
45:UB:199:CYS:O	45:UB:266:PHE:N	2.07	0.86
45:UF:6:HIS:ND1	45:UF:134:GLN:O	2.09	0.86
44:UK:288:VAL:HG11	44:UK:327:ASP:HB3	1.55	0.86
45:VD:286:VAL:HB	45:VD:287:PRO:HD3	1.56	0.86
44:VE:404:PHE:HE1	45:VF:259:PRO:HA	1.38	0.86
44:WG:315:CYS:SG	44:WG:379:SER:OG	2.30	0.86
44:WK:261:PRO:HG3	44:WK:313:MET:HG3	1.58	0.86
44:WM:182:VAL:HG22	44:WM:185:TYR:HB2	1.56	0.86
28:2C:14:ARG:HH22	45:LJ:320:ARG:HH22	1.21	0.86
35:6R:538:PHE:CE2	35:6R:578:TYR:HB2	2.11	0.86
44:AC:93:ILE:HG12	44:AC:117:LEU:HD22	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:283:HIS:HD1	44:MI:89:PRO:HD3	1.39	0.86
44:AM:237:SER:O	44:AM:320:ARG:NH2	2.08	0.86
44:BK:333:ALA:O	44:BK:337:THR:HG23	1.75	0.86
44:BM:178:SER:OG	45:BN:347:ASN:ND2	2.09	0.86
45:CB:334:GLN:HB2	45:CB:349:ILE:HD11	1.57	0.86
45:CH:139:LEU:CD2	45:CH:185:ALA:HA	2.06	0.86
45:ED:69:GLU:OE1	45:ED:71:GLY:N	2.07	0.86
44:EE:195:LEU:O	44:EE:266:HIS:NE2	2.08	0.86
44:EG:7:ILE:HD11	44:EG:135:PHE:HD1	1.41	0.86
44:EK:174:SER:OG	44:EK:206:ASN:OD1	1.94	0.86
45:EL:134:GLN:HA	45:EL:165:GLU:HB2	1.57	0.86
44:FA:102:ASN:OD1	44:FA:105:ARG:N	2.08	0.86
44:FG:222:PRO:HD2	45:FH:324:LYS:HB2	1.57	0.86
45:FL:139:LEU:HD11	45:FL:168:SER:HB3	1.57	0.86
45:FN:268:ILE:HG22	45:FN:368:VAL:HA	1.58	0.86
44:GG:56:THR:HG23	44:GG:58:ALA:H	1.40	0.86
45:GJ:177:ASP:N	45:GJ:181:GLU:OE2	2.09	0.86
44:HE:11:GLN:HG3	44:HE:74:VAL:HG11	1.58	0.86
45:IN:45:GLU:HB3	45:IN:46:ARG:HH11	1.41	0.86
45:JB:144:GLY:N	48:JB:501:GDP:O1B	2.07	0.86
45:KD:80:PRO:HD2	45:KD:80:PRO:O	1.75	0.86
44:LC:102:ASN:HB3	44:LC:105:ARG:HB2	1.58	0.86
44:MM:237:SER:HA	44:MM:320:ARG:HH11	1.39	0.86
45:ND:392:LYS:HD2	45:ND:392:LYS:O	1.76	0.86
44:NI:10:GLY:O	44:NI:14:ILE:N	2.09	0.86
45:OF:119:VAL:HA	45:OF:122:LYS:HG2	1.58	0.86
45:PJ:234:SER:O	45:PJ:241:ARG:NH2	2.09	0.86
45:PL:131:GLN:HA	45:PL:162:ARG:HH21	1.41	0.86
45:QJ:86:ARG:HE	45:QJ:87:PRO:HD2	1.40	0.86
45:QN:135:ILE:O	45:QN:167:PHE:N	2.07	0.86
44:RE:68:LEU:HD21	44:RE:118:CYS:HB2	1.58	0.86
45:SB:255:VAL:HG11	44:SC:100:ALA:O	1.73	0.86
45:SD:312:THR:HG22	45:SD:370:ASN:HB3	1.58	0.86
44:SI:75:ILE:HG23	44:SI:92:LEU:HD23	1.57	0.86
45:TH:315:ALA:HB3	45:TH:351:SER:HA	1.57	0.86
44:TI:276:ILE:HD13	44:TI:281:ALA:HA	1.56	0.86
44:TM:248:LEU:HG	44:TM:354:GLY:HA2	1.55	0.86
45:UF:68:LEU:HD22	45:UF:147:MET:HE2	1.56	0.86
44:VC:417:GLU:O	44:VC:420:GLU:HG2	1.76	0.86
45:VL:203:ASP:OD2	45:VL:302:ALA:N	2.08	0.86
45:VN:409:THR:HA	45:VN:412:GLU:HB3	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:76:ASP:OD1	44:WM:79:ARG:NH2	2.08	0.86
44:WM:312:TYR:O	44:WM:344:VAL:N	2.09	0.86
44:WM:315:CYS:HA	44:WM:379:SER:HA	1.54	0.86
20:1J:198:ARG:HD3	44:IG:370:LYS:HD3	1.56	0.85
20:1J:294:LEU:HD11	45:IL:322:SER:HB3	1.56	0.85
10:2N:1:MET:HE1	44:IA:117:LEU:HD13	1.55	0.85
37:5D:120:PHE:HB3	44:NM:357:TYR:HE2	1.39	0.85
35:6R:317:HIS:C	45:CN:227:HIS:HE1	1.80	0.85
35:7R:268:GLU:OE1	45:DB:276:ARG:NH1	2.07	0.85
45:AD:191:GLN:NE2	45:AD:195:ASN:OD1	2.08	0.85
45:AD:318:ARG:NH2	45:AD:354:CYS:SG	2.49	0.85
44:BA:210:TYR:HE1	44:BA:227:LEU:HD11	1.41	0.85
45:BJ:342:VAL:HG13	45:BJ:345:ILE:HG22	1.58	0.85
45:DF:207:LEU:HB3	45:DF:225:LEU:HD22	1.58	0.85
44:EA:68:LEU:HD22	44:EA:153:LEU:HD11	1.58	0.85
45:EJ:2:ARG:HB2	45:EJ:131:GLN:HE21	1.41	0.85
44:EM:265:ILE:HD11	44:EM:435:VAL:HG21	1.58	0.85
44:FE:324:VAL:HG23	44:FE:326:LYS:HG2	1.56	0.85
44:GI:268:MET:HB3	44:GI:380:ASN:HB2	1.56	0.85
44:HA:262:TYR:OH	45:HD:391:ARG:O	1.94	0.85
44:HM:209:ILE:HG12	44:HM:302:MET:HE1	1.57	0.85
45:IF:86:ARG:HH22	44:JC:280:LYS:HA	1.38	0.85
44:JI:180:ALA:HB3	44:JI:183:GLU:HB3	1.58	0.85
45:JL:67:ASP:OD1	45:JL:68:LEU:N	2.09	0.85
45:KF:248:SER:HA	45:KF:252:LYS:HD2	1.58	0.85
44:LM:31:GLN:OE1	44:LM:33:ASP:N	2.07	0.85
45:ML:49:VAL:HG21	45:ML:241:ARG:HG2	1.56	0.85
44:NG:294:SER:HA	44:NG:297:GLU:HG3	1.57	0.85
45:OJ:109:GLY:O	45:OJ:113:ILE:N	2.09	0.85
44:OM:179:THR:HG23	45:ON:351:SER:H	1.40	0.85
45:RH:305:PRO:HA	45:RH:373:ALA:HB2	1.57	0.85
45:SD:49:VAL:HG11	45:SD:241:ARG:HG2	1.58	0.85
45:SD:107:THR:OG1	45:SD:108:GLU:OE1	1.94	0.85
45:TB:46:ARG:NH2	44:TC:76:ASP:OD2	2.09	0.85
45:TF:102:ALA:HB1	45:TF:403:MET:HE1	1.58	0.85
45:TN:309:ARG:HD2	45:TN:342:VAL:HA	1.56	0.85
44:UA:195:LEU:HD11	44:UA:264:ARG:NH1	1.90	0.85
44:UC:2:ARG:HD3	44:UC:242:LEU:HD22	1.58	0.85
45:UH:323:THR:HG21	45:UH:353:ILE:HG21	1.57	0.85
44:UI:5:ILE:HB	44:UI:135:PHE:CD1	2.11	0.85
45:UJ:184:ASN:O	45:UJ:188:SER:HB3	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:379:LYS:O	45:UJ:383:GLU:N	2.08	0.85
45:UN:178:THR:HB	45:UN:181:GLU:HG3	1.57	0.85
45:UN:319:GLY:N	45:UN:354:CYS:O	2.09	0.85
44:WC:221:ARG:NH1	45:WD:325:GLU:OE1	2.09	0.85
44:WK:270:SER:HB3	44:WK:378:ILE:HD13	1.57	0.85
2:1A:39:TYR:HE2	44:ME:78:VAL:HA	1.39	0.85
22:1L:827:ASP:O	35:7R:100:GLN:NE2	2.09	0.85
38:5E:173:LYS:HE3	45:KD:262:ARG:HH12	1.37	0.85
35:7R:33:LEU:HD21	35:7R:36:ASN:HA	1.56	0.85
44:BA:313:MET:HG2	44:BA:381:SER:HA	1.58	0.85
44:BK:257:THR:HG22	45:BN:397:TRP:CD1	2.11	0.85
44:CA:144:GLY:N	46:CA:501:GTP:O2G	2.07	0.85
44:CM:284:GLU:HG3	44:CM:286:LEU:HD22	1.58	0.85
45:CN:100:ASN:ND2	45:CN:401:GLU:OE1	2.09	0.85
44:DA:316:SER:HA	44:DA:352:LYS:HB3	1.56	0.85
44:DG:102:ASN:HA	44:DG:408:TYR:OH	1.76	0.85
44:DK:9:VAL:HG12	44:DK:146:GLY:HA2	1.58	0.85
45:DL:11:GLN:O	45:DL:15:GLN:N	2.07	0.85
45:EB:63:ALA:O	45:EB:89:ASN:ND2	2.09	0.85
45:EB:282:ARG:NH2	45:EB:292:GLN:OE1	2.09	0.85
45:ED:252:LYS:HG3	44:EE:101:ASN:HD21	1.41	0.85
45:EL:319:GLY:N	45:EL:354:CYS:O	2.09	0.85
44:EM:270:SER:HB2	44:EM:377:MET:O	1.76	0.85
45:FB:33:THR:HG23	45:FB:35:THR:H	1.41	0.85
44:FC:273:ALA:O	44:FC:375:VAL:N	2.09	0.85
44:FE:56:THR:HA	44:GE:285:GLN:HB3	1.57	0.85
44:JC:217:LEU:HD21	44:JC:275:ILE:HG22	1.58	0.85
45:JD:83:GLN:O	45:KD:281:TYR:OH	1.95	0.85
45:JF:139:LEU:HA	45:JF:145:SER:HB3	1.58	0.85
44:KM:72:PRO:HD2	45:KN:2:ARG:HH21	1.41	0.85
44:LM:175:PRO:HG2	44:LM:304:LYS:CE	2.06	0.85
45:ML:8:GLN:HE21	45:ML:65:LEU:HG	1.41	0.85
45:ML:259:PRO:HD2	45:ML:260:PHE:N	1.89	0.85
44:PA:111:GLY:O	44:PA:115:VAL:N	2.08	0.85
44:PC:228:ASN:O	44:PC:232:ALA:N	2.08	0.85
45:PF:10:GLY:O	45:PF:14:ASN:ND2	2.08	0.85
45:PJ:249:ASP:OD1	45:PJ:252:LYS:N	2.08	0.85
45:PJ:287:PRO:O	45:PJ:290:THR:HG22	1.76	0.85
45:QJ:2:ARG:HD3	44:QK:72:PRO:HG2	1.57	0.85
45:RD:276:ARG:NH2	45:RD:279:GLN:OE1	2.08	0.85
44:RE:319:TYR:HE1	44:RE:375:VAL:HG23	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:329:ASN:HB3	45:RF:175:VAL:HG11	1.59	0.85
45:RF:136:THR:HG22	45:RF:167:PHE:HB2	1.57	0.85
44:RG:340:THR:HG23	44:RG:341:ILE:HG13	1.58	0.85
45:RN:133:PHE:HB2	45:RN:164:MET:HG3	1.58	0.85
45:SF:372:THR:HA	45:SF:422:TYR:HE2	1.38	0.85
45:SL:8:GLN:HE22	45:SL:17:GLY:HA3	1.38	0.85
44:TC:292:THR:HG21	44:TC:331:SER:HB3	1.58	0.85
44:TG:136:LEU:HD13	44:TG:167:LEU:HB2	1.57	0.85
45:TL:60:VAL:HG21	45:TL:86:ARG:HD2	1.57	0.85
45:UD:173:PRO:CD	45:UD:380:ARG:HD3	2.06	0.85
45:UH:11:GLN:HA	45:UH:14:ASN:HB2	1.58	0.85
45:VB:313:ALA:HB3	45:VB:349:ILE:HA	1.56	0.85
45:VL:372:THR:HA	45:VL:422:TYR:HE2	1.38	0.85
44:WA:407:TRP:HZ3	45:WB:255:VAL:HA	1.42	0.85
45:WH:314:SER:HB2	45:WH:350:LYS:HB3	1.56	0.85
44:WI:222:PRO:O	45:WJ:322:SER:OG	1.94	0.85
35:6R:344:ASN:CB	45:CN:33:THR:HG21	2.06	0.85
42:8L:58:UNK:O	42:8L:62:UNK:N	2.09	0.85
45:AF:325:GLU:HA	45:AF:328:GLU:HG2	1.57	0.85
44:AG:288:VAL:HG11	44:AG:327:ASP:HB3	1.58	0.85
44:AK:320:ARG:HH12	44:AK:360:PRO:CA	1.88	0.85
44:BI:191:THR:HG21	44:BI:425:LEU:HD11	1.57	0.85
45:BL:398:TYR:O	45:BL:403:MET:HB3	1.76	0.85
44:BM:210:TYR:HE1	45:BN:324:LYS:HA	1.40	0.85
45:BN:313:ALA:HB3	45:BN:349:ILE:HD13	1.57	0.85
44:CA:319:TYR:O	44:CA:356:ASN:N	2.08	0.85
44:CK:246:GLY:HA2	44:CK:357:TYR:HE1	1.39	0.85
45:DB:101:TRP:HB3	45:DB:398:TYR:HE1	1.41	0.85
45:DH:70:PRO:HA	45:DH:73:MET:HE2	1.57	0.85
45:DN:305:PRO:HB2	45:DN:310:TYR:HE1	1.41	0.85
44:EA:63:PRO:CG	44:EA:86:LEU:HG	2.06	0.85
44:EC:25:CYS:HA	44:EC:30:ILE:HD12	1.59	0.85
45:EH:1:MET:O	45:EH:2:ARG:HG2	1.76	0.85
44:EI:174:SER:OG	44:EI:206:ASN:OD1	1.94	0.85
44:FC:107:HIS:HE1	44:FC:152:LEU:HD13	1.39	0.85
44:FC:237:SER:HA	44:FC:320:ARG:NH1	1.91	0.85
44:FK:290:GLU:O	44:FK:294:SER:N	2.08	0.85
44:FK:314:ALA:O	44:FK:380:ASN:N	2.08	0.85
44:GG:222:PRO:HG2	45:GH:324:LYS:HD3	1.57	0.85
44:GK:404:PHE:CE1	45:GL:259:PRO:HA	2.11	0.85
45:HD:180:VAL:HG22	45:HD:183:TYR:HB2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LC:292:THR:HG21	44:LC:331:SER:HB2	1.57	0.85
45:LD:67:ASP:OD1	45:LD:68:LEU:N	2.10	0.85
45:LF:99:ASN:HA	45:LF:142:GLY:HA3	1.56	0.85
45:MJ:237:THR:HG22	45:MJ:250:LEU:HD21	1.57	0.85
44:NA:203:MET:HG3	44:NA:384:ILE:HD11	1.58	0.85
44:NE:68:LEU:HD21	44:NE:118:CYS:HB2	1.58	0.85
45:NJ:325:GLU:HA	45:NJ:328:GLU:HG2	1.57	0.85
45:NN:28:HIS:O	45:NN:43:GLN:NE2	2.08	0.85
45:PH:316:LEU:HB2	45:PH:366:THR:HG22	1.58	0.85
45:QB:207:LEU:HB3	45:QB:225:LEU:HD22	1.58	0.85
44:QE:241:SER:OG	44:QE:250:VAL:O	1.93	0.85
44:RA:140:SER:OG	46:RA:501:GTP:O2B	1.93	0.85
44:RG:352:LYS:NZ	45:RH:177:ASP:O	2.08	0.85
44:RM:203:MET:N	44:RM:268:MET:O	2.08	0.85
45:SL:113:ILE:HD11	45:SL:151:LEU:HD12	1.58	0.85
44:UA:161:TYR:CD2	44:UA:164:LYS:HG3	2.11	0.85
44:UE:387:VAL:HA	44:UE:390:ARG:HG2	1.58	0.85
45:UF:318:ARG:HH11	45:UF:358:PRO:HG3	1.41	0.85
45:UL:324:LYS:HD3	44:UM:222:PRO:HG2	1.56	0.85
44:VA:96:LYS:HB3	45:VB:1:MET:HE2	1.57	0.85
44:VI:316:SER:HB2	44:VI:352:LYS:HB3	1.57	0.85
45:VL:314:SER:HA	45:VL:350:LYS:HB3	1.59	0.85
45:VN:409:THR:O	45:VN:413:SER:N	2.08	0.85
38:5E:140:ASN:HB2	45:OD:361:LEU:HD21	1.59	0.85
35:5R:114:ARG:HH22	35:5R:139:ILE:HG21	1.41	0.85
11:6Q:15:TYR:CE2	11:6Q:17:ILE:HB	2.10	0.85
44:CA:217:LEU:HB3	44:CA:219:ILE:HG13	1.58	0.85
44:CC:31:GLN:HE22	44:CC:33:ASP:HB2	1.40	0.85
44:CK:91:GLN:HG3	44:CK:92:LEU:HD12	1.58	0.85
45:CL:1:MET:O	45:CL:2:ARG:HG2	1.76	0.85
44:DE:11:GLN:NE2	46:DE:501:GTP:O3G	2.09	0.85
45:DJ:318:ARG:HD3	45:DJ:358:PRO:HD3	1.58	0.85
45:EJ:99:ASN:OD1	45:EJ:142:GLY:N	2.08	0.85
44:EM:36:MET:HB2	44:EM:37:PRO:HD3	1.56	0.85
44:EM:109:THR:HG23	44:EM:110:ILE:HG23	1.58	0.85
44:FC:210:TYR:HE1	44:FC:227:LEU:HD11	1.40	0.85
44:FC:269:LEU:O	44:FC:379:SER:OG	1.93	0.85
44:FE:93:ILE:HD13	44:FE:117:LEU:HB3	1.59	0.85
45:FL:86:ARG:NE	45:FL:87:PRO:HD2	1.92	0.85
44:GI:145:THR:N	46:GI:501:GTP:O2G	2.09	0.85
44:GK:241:SER:O	44:GK:249:ASN:ND2	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:378:PHE:O	45:GL:382:ALA:N	2.09	0.85
45:HL:145:SER:O	45:HL:149:THR:N	2.08	0.85
45:IB:184:ASN:O	45:IB:188:SER:N	2.10	0.85
44:IM:5:ILE:HD13	44:IM:125:LEU:HB3	1.56	0.85
45:JL:147:MET:HE2	45:JL:147:MET:HA	1.59	0.85
44:KA:320:ARG:HD3	44:KA:360:PRO:HG3	1.57	0.85
44:KG:64:ARG:NH2	44:KG:129:CYS:SG	2.49	0.85
44:LG:269:LEU:HG	44:LG:301:MET:HE2	1.56	0.85
45:MD:173:PRO:HB3	45:MD:380:ARG:HD3	1.58	0.85
44:MM:317:MET:HA	44:MM:377:MET:HA	1.56	0.85
45:NF:118:ASP:OD1	45:NF:121:ARG:NH2	2.08	0.85
44:NG:222:PRO:O	45:NH:322:SER:OG	1.93	0.85
45:NL:61:PRO:HG2	45:NL:84:LEU:HB3	1.58	0.85
44:OA:320:ARG:HG3	44:OA:374:ALA:HB3	1.59	0.85
45:ON:319:GLY:HA2	45:ON:357:PRO:HG3	1.58	0.85
45:PN:29:GLY:O	45:PN:37:HIS:N	2.10	0.85
44:QC:175:PRO:HB3	44:QC:390:ARG:HD3	1.58	0.85
44:QE:271:SER:N	44:QE:377:MET:SD	2.50	0.85
44:RA:294:SER:O	44:RA:300:ASN:ND2	2.09	0.85
45:RH:318:ARG:HD3	45:RH:358:PRO:HD3	1.57	0.85
45:RJ:249:ASP:OD1	45:RJ:252:LYS:N	2.09	0.85
45:SB:376:GLU:HA	45:SB:379:LYS:HG3	1.57	0.85
44:TI:260:VAL:HB	45:TJ:397:TRP:HZ2	1.41	0.85
45:TL:174:LYS:HD2	45:TL:175:VAL:HG13	1.58	0.85
45:UD:334:GLN:HG3	45:UD:341:PHE:HD2	1.40	0.85
45:UF:210:ILE:O	45:UF:214:THR:OG1	1.95	0.85
45:UF:375:GLN:O	45:UF:379:LYS:N	2.08	0.85
44:VK:98:ASP:O	44:VK:105:ARG:NH1	2.09	0.85
44:VM:173:PRO:HG3	44:VM:391:LEU:HD21	1.57	0.85
45:WH:262:ARG:HG3	45:WH:263:LEU:HD12	1.57	0.85
16:OX:75:LEU:HD12	45:MB:280:GLN:HE22	1.39	0.85
42:8L:182:UNK:O	42:8L:186:UNK:N	2.10	0.85
44:BA:271:SER:HB2	44:BA:377:MET:HG2	1.58	0.85
44:CE:133:GLN:HG3	44:CE:242:LEU:HD11	1.58	0.85
45:CL:168:SER:HB2	45:CL:201:VAL:HG12	1.56	0.85
45:CN:377:MET:O	45:CN:380:ARG:HG2	1.77	0.85
44:DK:60:LYS:NZ	44:DK:85:GLN:O	2.08	0.85
44:EG:115:VAL:HG21	44:EG:152:LEU:HD23	1.57	0.85
45:EL:258:ILE:HG13	45:EL:266:PHE:CZ	2.10	0.85
44:FM:175:PRO:HB3	44:FM:390:ARG:HD3	1.58	0.85
44:GC:141:VAL:HG11	44:GC:172:TYR:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:68:LEU:HB2	45:GN:147:MET:HE1	1.58	0.85
44:HI:258:ASN:HD21	44:HI:352:LYS:HB2	1.40	0.85
44:IC:21:TRP:O	44:IC:25:CYS:N	2.08	0.85
44:II:115:VAL:HB	44:II:152:LEU:HD21	1.59	0.85
45:JB:273:LEU:H	45:JB:292:GLN:HE22	1.22	0.85
45:KB:34:GLY:HA3	45:KB:58:ARG:HB2	1.57	0.85
44:KG:340:THR:HG23	44:KG:341:ILE:HD12	1.57	0.85
45:KJ:170:VAL:HG11	45:KJ:377:MET:SD	2.17	0.85
44:LC:149:LEU:O	44:LC:153:LEU:N	2.09	0.85
44:MK:288:VAL:HA	44:MK:291:ILE:HG12	1.59	0.85
44:NG:63:PRO:HG2	44:NG:86:LEU:HG	1.57	0.85
44:NK:268:MET:CE	44:NK:378:ILE:HG22	2.05	0.85
44:OA:276:ILE:HD11	44:OA:281:ALA:HA	1.59	0.85
44:OK:60:LYS:NZ	44:OK:85:GLN:O	2.09	0.85
45:PJ:99:ASN:HA	45:PJ:142:GLY:HA3	1.57	0.85
45:QB:49:VAL:HG21	45:QB:241:ARG:HG2	1.59	0.85
44:QC:195:LEU:O	44:QC:266:HIS:NE2	2.07	0.85
45:QD:251:ARG:O	45:QD:255:VAL:N	2.07	0.85
44:QG:134:GLY:HA2	44:QG:164:LYS:HZ2	1.42	0.85
45:QN:406:MET:O	45:QN:410:GLU:N	2.08	0.85
44:RA:11:GLN:NE2	46:RA:501:GTP:O1B	2.09	0.85
45:RD:132:GLY:HA3	45:RD:163:ILE:CG1	2.05	0.85
44:RE:7:ILE:HB	44:RE:137:VAL:HA	1.57	0.85
44:RK:259:LEU:O	44:RK:380:ASN:ND2	2.08	0.85
45:SH:46:ARG:NH2	44:SI:76:ASP:OD2	2.10	0.85
44:SM:203:MET:HG3	44:SM:384:ILE:HD11	1.57	0.85
45:SN:411:ALA:HA	45:SN:414:ASN:HD21	1.40	0.85
45:TB:327:ASP:HB3	44:TC:177:VAL:HG13	1.57	0.85
44:TE:54:SER:HB3	44:TE:64:ARG:HE	1.38	0.85
44:TE:241:SER:OG	44:TE:250:VAL:O	1.93	0.85
45:TH:167:PHE:HE2	45:TH:233:MET:HG2	1.40	0.85
44:TM:6:SER:OG	44:TM:64:ARG:O	1.93	0.85
44:UE:213:CYS:HB3	44:UE:219:ILE:HB	1.57	0.85
45:UJ:207:LEU:HB3	45:UJ:225:LEU:HD22	1.57	0.85
44:WI:20:CYS:HA	44:WI:232:ALA:HB1	1.57	0.85
1:6H:173:SER:HA	45:FB:320:ARG:HD3	1.55	0.85
32:2I:74:SER:HB2	44:GE:338:LYS:HE2	1.58	0.85
24:2O:228:GLN:HB3	45:UJ:56:GLY:HA2	1.59	0.85
37:5D:115:ASP:CA	44:NM:373:ARG:HD3	2.06	0.85
38:5G:44:ARG:NH2	44:OG:285:GLN:OE1	2.10	0.85
35:7R:435:LYS:HA	35:7R:438:ASN:HD21	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:76:ASP:OD1	44:AA:79:ARG:NH2	2.09	0.85
45:AB:278:SER:HB2	45:MB:87:PRO:HG2	1.58	0.85
44:BA:75:ILE:HG21	44:BA:94:SER:HB2	1.58	0.85
45:BJ:139:LEU:HD13	45:BJ:168:SER:HB3	1.57	0.85
45:CB:347:ASN:OD1	44:CC:394:LYS:NZ	2.10	0.85
44:CC:284:GLU:OE2	44:CC:286:LEU:N	2.09	0.85
44:DG:60:LYS:HD3	44:EG:283:HIS:NE2	1.91	0.85
45:ED:358:PRO:HG2	45:ED:364:ALA:HB3	1.57	0.85
44:EM:102:ASN:OD1	44:EM:105:ARG:N	2.09	0.85
45:FB:299:MET:HE1	45:FB:301:CYS:HB2	1.56	0.85
44:HA:371:VAL:HG12	44:HA:373:ARG:H	1.41	0.85
45:ID:317:PHE:HA	45:ID:365:VAL:HG12	1.57	0.85
44:IG:60:LYS:HZ1	44:IG:86:LEU:HA	1.40	0.85
45:IN:23:VAL:HG21	45:IN:230:SER:HB3	1.59	0.85
45:JB:317:PHE:HA	45:JB:365:VAL:CG2	2.07	0.85
44:LG:348:PRO:HG2	45:LJ:384:GLN:NE2	1.89	0.85
45:MB:101:TRP:CZ3	45:MB:187:LEU:HB3	2.11	0.85
44:MG:259:LEU:HD21	44:MG:316:SER:HB3	1.57	0.85
44:OA:148:GLY:O	44:OA:152:LEU:N	2.10	0.85
44:OG:141:VAL:HG22	44:OG:187:SER:HA	1.58	0.85
45:ON:271:ALA:HB3	45:ON:365:VAL:HG22	1.59	0.85
44:PG:89:PRO:HG3	44:QG:280:LYS:CD	2.05	0.85
45:PH:282:ARG:HH21	45:PH:288:GLU:HB3	1.42	0.85
45:PJ:86:ARG:NH1	45:QH:278:SER:O	2.08	0.85
45:PL:135:ILE:O	45:PL:167:PHE:N	2.10	0.85
44:QC:261:PRO:HB3	44:QC:313:MET:HG2	1.57	0.85
45:QD:3:GLU:HB3	45:QD:49:VAL:HA	1.58	0.85
45:QL:7:ILE:HB	45:QL:135:ILE:HD12	1.59	0.85
45:QL:246:LEU:HD13	45:QL:353:ILE:HD13	1.59	0.85
44:RM:141:VAL:HG11	44:RM:172:TYR:HD1	1.41	0.85
45:SB:256:ASN:OD1	44:SC:181:VAL:HG22	1.75	0.85
45:SD:67:ASP:OD1	45:SD:68:LEU:N	2.08	0.85
44:SE:326:LYS:HE2	45:SF:220:PRO:HD2	1.58	0.85
45:SL:54:ALA:HA	45:TL:283:ALA:HB2	1.58	0.85
44:TC:256:GLN:OE1	45:TD:396:HIS:NE2	2.10	0.85
45:TD:271:ALA:HB3	45:TD:365:VAL:HB	1.58	0.85
44:UC:330:ALA:O	44:UC:334:THR:N	2.09	0.85
45:VL:207:LEU:HB3	45:VL:225:LEU:HD22	1.59	0.85
45:VL:328:GLU:O	45:VL:332:ASN:N	2.08	0.85
1:6H:263:TYR:OH	44:FE:19:ALA:HA	1.76	0.85
27:2W:232:SER:HB3	35:6R:3:TYR:HE1	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:198:PHE:H	44:LK:393:HIS:HE1	1.25	0.85
44:AA:284:GLU:HG3	44:AA:286:LEU:HD22	1.58	0.85
44:BA:14:ILE:HD11	44:BA:69:ASP:HB2	1.59	0.85
44:BA:221:ARG:NH1	45:BB:325:GLU:CB	2.39	0.85
45:CB:272:PRO:HG3	45:CB:289:LEU:HD21	1.59	0.85
44:CK:326:LYS:HE2	44:CK:326:LYS:HA	1.58	0.85
44:DM:251:ASP:HB2	44:DM:254:GLU:HG3	1.55	0.85
44:EG:3:GLU:HB2	44:EG:129:CYS:HB3	1.59	0.85
44:FG:223:THR:HA	45:FH:323:THR:HB	1.57	0.85
45:FH:378:PHE:HA	45:FH:381:VAL:HG12	1.58	0.85
44:FK:200:VAL:CG2	44:FK:256:GLN:HB3	2.06	0.85
44:GA:314:ALA:O	44:GA:380:ASN:N	2.10	0.85
44:GE:340:THR:HG23	44:GE:341:ILE:HG12	1.57	0.85
44:GM:416:GLY:O	44:GM:419:SER:OG	1.94	0.85
45:HD:15:GLN:HA	45:HD:18:ALA:HB3	1.57	0.85
45:HF:372:THR:HA	45:HF:422:TYR:HE2	1.42	0.85
44:HK:76:ASP:OD1	44:HK:79:ARG:NH2	2.09	0.85
45:HL:249:ASP:OD1	45:HL:252:LYS:N	2.09	0.85
44:HM:241:SER:N	44:HM:242:LEU:HB3	1.91	0.85
45:ID:198:GLU:HG2	45:ID:266:PHE:HE2	1.42	0.85
45:IH:203:ASP:HB2	45:IH:301:CYS:HA	1.58	0.85
44:IM:88:HIS:CE1	44:IM:90:GLU:HG2	2.11	0.85
44:KC:53:PHE:O	44:KC:64:ARG:NH1	2.10	0.85
45:LJ:287:PRO:HD3	45:LJ:325:GLU:OE2	1.77	0.85
44:LM:216:ASN:HD22	44:LM:275:ILE:HG23	1.41	0.85
44:MK:275:ILE:HD12	44:MK:368:LEU:HD11	1.57	0.85
45:NF:49:VAL:HG21	45:NF:241:ARG:HG2	1.58	0.85
45:NJ:49:VAL:HG11	45:NJ:241:ARG:HG2	1.58	0.85
44:OE:188:ILE:HG23	44:OE:425:LEU:HD22	1.57	0.85
44:OE:269:LEU:HD23	44:OE:384:ILE:HD13	1.59	0.85
44:PM:284:GLU:HG3	44:PM:286:LEU:HD22	1.59	0.85
45:QD:173:PRO:HG2	45:QD:380:ARG:HD3	1.57	0.85
44:QM:325:PRO:HG3	44:QM:355:ILE:HD13	1.59	0.85
44:RC:273:ALA:HB1	44:RC:274:PRO:HA	1.59	0.85
45:RF:322:SER:OG	44:RG:222:PRO:O	1.95	0.85
45:RJ:5:VAL:HG12	45:RJ:62:ARG:HD3	1.59	0.85
44:SA:5:ILE:HG13	44:SA:132:LEU:HD11	1.57	0.85
44:SE:116:ASP:OD1	44:SE:117:LEU:N	2.09	0.85
44:SM:145:THR:OG1	46:SM:501:GTP:O1B	1.93	0.85
44:SM:212:ILE:HD11	44:SM:300:ASN:HA	1.56	0.85
45:TH:178:THR:O	45:TH:181:GLU:HG3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:282:ARG:NH1	45:UH:288:GLU:OE1	2.10	0.85
45:UH:324:LYS:CD	44:UI:222:PRO:HG2	2.05	0.85
44:VC:119:LEU:O	44:VC:121:ARG:N	2.10	0.85
45:VJ:215:LEU:HD23	45:VJ:275:SER:HA	1.58	0.85
44:VK:384:ILE:O	44:VK:387:VAL:HG22	1.76	0.85
44:WA:23:LEU:O	44:WA:27:GLU:N	2.08	0.85
37:5D:20:LEU:HD13	45:KN:419:VAL:H	1.42	0.85
38:5G:95:ASP:O	38:5G:97:ARG:N	2.09	0.85
41:6G:280:ALA:O	44:VA:214:ARG:NH1	2.09	0.85
35:6R:121:TYR:OH	44:AM:44:GLY:HA3	1.76	0.85
35:6R:538:PHE:CZ	35:6R:578:TYR:CB	2.59	0.85
45:AB:91:VAL:HG21	45:AB:116:VAL:HB	1.57	0.85
44:AI:323:VAL:HG21	44:AI:355:ILE:HD12	1.59	0.85
45:CN:310:TYR:CD1	45:CN:371:SER:HB2	2.10	0.85
44:EC:141:VAL:HG11	44:EC:172:TYR:HD1	1.41	0.85
44:EM:269:LEU:O	44:EM:379:SER:OG	1.93	0.85
45:EN:1:MET:O	45:EN:46:ARG:NH2	2.10	0.85
45:EN:70:PRO:HG3	45:EN:92:PHE:HB2	1.58	0.85
45:EN:97:ALA:HB3	45:EN:143:THR:HB	1.59	0.85
45:EN:117:LEU:O	45:EN:121:ARG:N	2.10	0.85
44:FA:12:GLY:O	44:FA:16:VAL:N	2.08	0.85
44:FC:237:SER:HA	44:FC:320:ARG:CZ	2.06	0.85
44:FC:363:VAL:HG22	44:FC:364:PRO:CD	2.07	0.85
45:FD:139:LEU:HA	45:FD:145:SER:HB3	1.57	0.85
45:FF:100:ASN:ND2	45:FF:401:GLU:OE1	2.09	0.85
44:FK:396:ASP:OD1	44:FK:397:LEU:N	2.10	0.85
44:GM:221:ARG:NH1	45:GN:322:SER:OG	2.09	0.85
44:HA:268:MET:HE3	44:HA:380:ASN:HB2	1.56	0.85
44:HK:289:ALA:O	44:HK:293:ASN:N	2.08	0.85
45:IN:32:PRO:HA	45:IN:84:LEU:HD11	1.59	0.85
45:KH:51:TYR:HB3	45:KH:59:TYR:HB3	1.56	0.85
45:LF:221:THR:HG23	45:LF:223:GLY:H	1.37	0.85
44:LG:188:ILE:HG23	44:LG:425:LEU:HD11	1.59	0.85
45:MJ:67:ASP:OD2	45:MJ:72:THR:OG1	1.93	0.85
44:NA:101:ASN:HA	44:NA:144:GLY:H	1.42	0.85
45:PB:317:PHE:N	45:PB:352:SER:O	2.09	0.85
44:QG:67:PHE:HB2	44:QG:92:LEU:HD22	1.57	0.85
45:QJ:415:MET:HE2	45:QJ:419:VAL:HG23	1.58	0.85
45:QL:370:ASN:OD1	45:QL:422:TYR:OH	1.94	0.85
44:QM:145:THR:OG1	46:QM:501:GTP:O1B	1.93	0.85
45:QN:233:MET:HE3	45:QN:233:MET:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:49:VAL:HG11	45:RB:241:ARG:HG2	1.56	0.85
45:RB:54:ALA:HB3	45:RB:58:ARG:HG2	1.59	0.85
45:RB:375:GLN:O	45:RB:379:LYS:N	2.10	0.85
45:RJ:374:ILE:HB	45:RJ:377:MET:HE2	1.58	0.85
45:SB:315:ALA:HB3	45:SB:351:SER:HA	1.58	0.85
44:SM:315:CYS:O	44:SM:352:LYS:N	2.09	0.85
45:SN:46:ARG:HG2	45:SN:241:ARG:HA	1.55	0.85
45:TB:246:LEU:HD21	46:TC:501:GTP:H8	1.41	0.85
45:TF:97:ALA:HA	45:TF:103:LYS:HD2	1.57	0.85
44:TI:177:VAL:HB	44:TI:207:GLU:HG2	1.56	0.85
44:UE:215:ARG:NH2	44:UE:300:ASN:OD1	2.08	0.85
45:UF:46:ARG:NH2	44:UG:76:ASP:OD2	2.10	0.85
45:UF:113:ILE:CD1	45:UF:150:LEU:HD22	2.07	0.85
44:UI:175:PRO:HG3	44:UI:390:ARG:CZ	2.06	0.85
45:VD:213:ARG:HH21	45:VD:297:LYS:HE3	1.42	0.85
45:VF:16:ILE:HD13	45:VF:226:ASN:OD1	1.75	0.85
45:VL:257:LEU:HD11	45:VL:314:SER:HB3	1.59	0.85
45:WB:19:LYS:O	45:WB:23:VAL:N	2.09	0.85
20:1J:263:PHE:CG	44:II:282:TYR:CA	2.54	0.85
16:2X:2:LYS:HB2	45:ML:75:SER:HB3	1.58	0.85
13:3T:146:MET:CE	45:MN:402:GLY:HA2	2.05	0.85
11:6Q:97:LYS:HG3	11:6Q:99:VAL:HG22	1.57	0.85
44:AA:105:ARG:HA	44:AA:109:THR:HG22	1.57	0.85
44:AA:328:VAL:HG11	44:AA:353:VAL:HG21	1.59	0.85
45:AD:187:LEU:HD21	45:AD:408:PHE:HE1	1.40	0.85
45:AH:252:LYS:O	45:AH:256:ASN:ND2	2.09	0.85
44:BM:14:ILE:HD11	44:BM:69:ASP:HB2	1.58	0.85
44:CG:89:PRO:HB3	44:DG:280:LYS:HG2	1.56	0.85
45:CJ:139:LEU:HD13	45:CJ:168:SER:HB3	1.58	0.85
44:DC:258:ASN:HD21	45:DD:178:THR:HG23	1.39	0.85
44:DK:91:GLN:HG3	44:DK:92:LEU:HD12	1.57	0.85
44:EE:401:LYS:O	44:EE:402:ARG:HD3	1.77	0.85
44:FG:297:GLU:HG2	44:FG:298:PRO:HD2	1.57	0.85
45:FJ:10:GLY:O	45:FJ:14:ASN:ND2	2.09	0.85
44:FM:105:ARG:HA	44:FM:109:THR:CB	2.07	0.85
45:FN:414:ASN:O	45:FN:418:LEU:N	2.10	0.85
45:GJ:210:ILE:O	45:GJ:214:THR:OG1	1.92	0.85
44:IG:398:MET:HE2	45:IH:345:ILE:HA	1.58	0.85
44:IK:319:TYR:HB2	44:IK:355:ILE:HD13	1.58	0.85
44:IM:188:ILE:O	44:IM:192:HIS:N	2.09	0.85
45:JL:4:ILE:O	45:JL:62:ARG:NH2	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:251:ASP:N	44:KE:254:GLU:OE2	2.10	0.85
44:LE:317:MET:HE1	44:LE:377:MET:HA	1.57	0.85
45:LJ:139:LEU:HA	45:LJ:145:SER:HB3	1.56	0.85
45:MF:207:LEU:HB3	45:MF:225:LEU:HD22	1.59	0.85
45:MJ:68:LEU:HD23	45:MJ:97:ALA:HB2	1.58	0.85
45:NB:103:LYS:O	45:NB:107:THR:OG1	1.94	0.85
45:ND:97:ALA:HB3	45:ND:143:THR:HB	1.58	0.85
45:NL:305:PRO:HA	45:NL:373:ALA:HB2	1.59	0.85
45:OL:156:ARG:NH2	45:OL:195:ASN:O	2.10	0.85
45:PN:334:GLN:HB2	45:PN:349:ILE:HD12	1.59	0.85
45:QB:287:PRO:HA	45:QB:290:THR:HG22	1.57	0.85
44:RA:234:VAL:HA	44:RA:237:SER:HB2	1.57	0.85
44:RI:105:ARG:HA	44:RI:109:THR:HB	1.55	0.85
45:TF:286:VAL:HG22	45:TF:321:MET:HE3	1.58	0.85
45:TH:135:ILE:HG13	45:TH:152:ILE:HD11	1.58	0.85
44:UA:161:TYR:HD2	44:UA:164:LYS:HG3	1.39	0.85
44:UE:241:SER:OG	44:UE:250:VAL:O	1.95	0.85
45:UJ:305:PRO:HA	45:UJ:373:ALA:HB2	1.57	0.85
44:UM:271:SER:N	44:UM:377:MET:O	2.08	0.85
45:VJ:193:VAL:HG23	45:VJ:264:HIS:HE1	1.41	0.85
44:WA:345:ASP:HB3	45:WD:391:ARG:HH12	1.39	0.85
44:WK:316:SER:O	44:WK:378:ILE:N	2.10	0.85
44:WM:64:ARG:NH1	44:WM:129:CYS:SG	2.50	0.85
44:AM:68:LEU:HD21	44:AM:118:CYS:HB2	1.58	0.85
44:AM:392:ASP:OD1	44:AM:422:ARG:NH1	2.10	0.85
44:BI:132:LEU:O	44:BI:164:LYS:NZ	2.08	0.85
44:CA:88:HIS:CE1	44:CA:90:GLU:HG2	2.12	0.85
44:CE:68:LEU:HD21	44:CE:118:CYS:HB2	1.57	0.85
45:FF:257:LEU:HA	45:FF:312:THR:HG21	1.58	0.85
45:FL:411:ALA:O	45:FL:415:MET:N	2.07	0.85
45:GD:12:CYS:O	45:GD:16:ILE:HG12	1.76	0.85
44:GK:326:LYS:NZ	45:GN:220:PRO:O	2.09	0.85
44:HE:407:TRP:HZ3	45:HF:255:VAL:HA	1.39	0.85
44:HK:288:VAL:HG21	44:HK:327:ASP:HB3	1.58	0.85
45:IB:133:PHE:N	45:IB:163:ILE:O	2.08	0.85
44:IM:284:GLU:HG3	44:IM:286:LEU:HD22	1.58	0.85
45:JB:412:GLU:O	45:JB:416:ASN:ND2	2.10	0.85
44:JI:257:THR:HA	45:JL:397:TRP:CE2	2.12	0.85
45:KN:32:PRO:HG3	45:KN:81:PHE:CE1	2.12	0.85
45:LN:163:ILE:HD12	45:LN:251:ARG:HG3	1.57	0.85
45:MJ:295:ASP:OD1	45:MJ:296:ALA:N	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:288:VAL:HA	44:NC:291:ILE:HG12	1.59	0.85
44:NC:326:LYS:NZ	45:NF:220:PRO:O	2.09	0.85
45:OD:66:MET:HE1	45:OD:147:MET:HG2	1.58	0.85
45:OL:86:ARG:HB3	45:OL:89:ASN:ND2	1.91	0.85
44:PC:310:GLY:HA3	44:PC:383:ALA:HB2	1.56	0.85
44:PE:423:GLU:O	44:PE:427:ALA:N	2.09	0.85
44:PM:89:PRO:HG3	44:QM:280:LYS:HG3	1.57	0.85
44:QI:271:SER:OG	44:QI:301:MET:SD	2.32	0.85
44:QK:188:ILE:HD11	44:QK:391:LEU:HB3	1.57	0.85
44:RA:295:ALA:HB1	44:RA:377:MET:HE1	1.58	0.85
44:RE:60:LYS:NZ	44:RE:85:GLN:O	2.09	0.85
44:RG:237:SER:OG	44:RG:320:ARG:NH1	2.10	0.85
45:SH:55:THR:HG23	45:TH:283:ALA:HA	1.58	0.85
45:TD:405:GLU:O	45:TD:409:THR:N	2.09	0.85
45:TF:3:GLU:HB3	45:TF:49:VAL:HA	1.59	0.85
45:TH:171:PRO:HG2	45:TH:181:GLU:HB3	1.57	0.85
45:UL:260:PHE:HB3	45:UL:261:PRO:HD2	1.58	0.85
44:WI:292:THR:HG21	44:WI:331:SER:HB3	1.54	0.85
44:WI:407:TRP:CZ3	45:WJ:255:VAL:HA	2.12	0.85
16:OX:1:MET:SD	44:MA:249:ASN:ND2	2.48	0.84
10:1N:248:ASN:HD21	45:KJ:78:ALA:HB2	1.37	0.84
41:6G:240:HIS:NE2	45:UD:158:GLU:O	2.08	0.84
35:6R:500:VAL:O	35:6R:500:VAL:HG12	1.74	0.84
45:AF:100:ASN:ND2	45:AF:103:LYS:HG2	1.91	0.84
44:AG:46:ASP:OD1	44:AG:47:ASP:N	2.10	0.84
45:BD:390:ARG:NH2	45:BD:391:ARG:HG2	1.91	0.84
45:CL:12:CYS:O	45:CL:16:ILE:HG12	1.76	0.84
45:CL:267:MET:O	45:CL:369:GLY:N	2.10	0.84
45:CL:316:LEU:HA	45:CL:352:SER:OG	1.75	0.84
45:DB:161:ASP:OD2	45:DB:162:ARG:NH2	2.10	0.84
45:IB:117:LEU:O	45:IB:121:ARG:N	2.07	0.84
45:IB:271:ALA:O	45:IB:365:VAL:N	2.10	0.84
44:II:60:LYS:HE2	45:JJ:281:TYR:HA	1.58	0.84
45:JB:8:GLN:HE22	45:JB:17:GLY:HA3	1.41	0.84
44:JG:256:GLN:HB2	45:JJ:397:TRP:HH2	1.42	0.84
44:KI:60:LYS:NZ	44:KI:85:GLN:O	2.10	0.84
45:LD:8:GLN:HG3	45:LD:14:ASN:HA	1.57	0.84
45:LL:309:ARG:NH1	45:LL:426:GLN:O	2.10	0.84
45:LN:377:MET:SD	45:LN:380:ARG:NH2	2.50	0.84
44:ME:295:ALA:HB1	44:ME:377:MET:HE2	1.59	0.84
45:MF:67:ASP:HB3	45:MF:73:MET:HE2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:311:LYS:HZ1	44:NK:344:VAL:N	1.74	0.84
45:NL:202:ILE:HD11	45:NL:268:ILE:HG12	1.57	0.84
45:OJ:169:VAL:HG22	45:OJ:202:ILE:HB	1.57	0.84
44:OM:428:LEU:HG	44:OM:432:TYR:HE2	1.42	0.84
44:PM:104:ALA:HA	44:PM:413:MET:CE	2.07	0.84
44:QE:115:VAL:HG22	44:QE:119:LEU:HD23	1.58	0.84
44:QG:33:ASP:HB2	44:QG:35:GLN:HE22	1.42	0.84
44:QI:208:ALA:HA	44:QI:304:LYS:NZ	1.92	0.84
45:QN:211:CYS:HB3	45:QN:215:LEU:HD12	1.59	0.84
45:RB:50:TYR:OH	45:RB:237:THR:HG21	1.76	0.84
44:RG:213:CYS:HA	44:RG:217:LEU:HD12	1.59	0.84
45:RH:146:GLY:O	45:RH:149:THR:HG22	1.75	0.84
45:RJ:11:GLN:N	48:RJ:501:GDP:O3B	2.09	0.84
44:RM:254:GLU:HG2	45:RN:98:GLY:HA2	1.58	0.84
44:SA:230:LEU:HD11	44:SA:368:LEU:HD21	1.59	0.84
45:SD:86:ARG:NH2	45:TD:278:SER:OG	2.10	0.84
44:SK:247:ALA:HB1	45:SL:222:TYR:HE2	1.40	0.84
44:SM:11:GLN:HB3	44:SM:74:VAL:HG21	1.59	0.84
44:TA:429:GLU:HA	44:TA:432:TYR:HD2	1.41	0.84
44:TE:60:LYS:NZ	44:TE:85:GLN:O	2.09	0.84
44:TM:215:ARG:NH2	44:TM:300:ASN:OD1	2.10	0.84
44:UK:2:ARG:O	44:UK:51:THR:HA	1.76	0.84
45:VN:273:LEU:O	45:VN:282:ARG:NH1	2.09	0.84
45:WB:86:ARG:HB3	45:WB:89:ASN:OD1	1.77	0.84
44:WC:119:LEU:HG	44:WC:156:ARG:HD3	1.57	0.84
45:WF:236:VAL:HG13	45:WF:253:LEU:HD22	1.57	0.84
7:0F:207:THR:HA	44:FC:219:ILE:HD11	1.57	0.84
31:3H:173:GLY:N	44:AE:322:ASP:OD1	2.10	0.84
12:3S:277:GLN:HG2	11:6Q:37:ILE:HG23	1.59	0.84
37:5D:37:ASP:CA	44:KK:262:TYR:HB3	2.08	0.84
39:5K:75:ILE:O	39:5K:78:THR:OG1	1.95	0.84
35:5R:301:PRO:HG3	45:CJ:74:ASP:HB3	1.59	0.84
45:AB:23:VAL:HG21	45:AB:230:SER:CB	2.07	0.84
44:AK:249:ASN:OD1	45:AN:11:GLN:NE2	2.09	0.84
44:BG:284:GLU:HG3	44:BG:286:LEU:HD12	1.57	0.84
45:BH:173:PRO:CD	45:BH:380:ARG:HD3	2.06	0.84
45:BL:52:ASN:HB2	45:BL:62:ARG:HD3	1.59	0.84
44:CK:276:ILE:HD11	44:CK:280:LYS:HG3	1.58	0.84
44:DA:68:LEU:HD22	44:DA:153:LEU:HD11	1.57	0.84
44:DA:320:ARG:HA	44:DA:356:ASN:HB3	1.60	0.84
44:DM:298:PRO:HA	44:DM:301:MET:CE	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:1:MET:HG2	44:EG:2:ARG:HH11	1.42	0.84
44:FK:225:THR:HB	44:FK:229:ARG:HH12	1.40	0.84
45:FN:106:TYR:HE2	45:FN:403:MET:HB3	1.42	0.84
44:GA:316:SER:N	44:GA:378:ILE:O	2.10	0.84
45:HJ:135:ILE:HG13	45:HJ:152:ILE:HD11	1.58	0.84
45:IB:331:LEU:HG	45:IB:335:ASN:HD21	1.39	0.84
45:ID:203:ASP:OD2	45:ID:302:ALA:N	2.10	0.84
44:JM:68:LEU:HD13	44:JM:93:ILE:HB	1.57	0.84
45:JN:334:GLN:NE2	45:JN:348:ASN:OD1	2.09	0.84
44:KI:237:SER:OG	44:KI:320:ARG:NH1	2.10	0.84
44:LA:60:LYS:HD3	44:MA:283:HIS:HB3	1.57	0.84
45:LB:136:THR:HG22	45:LB:167:PHE:HB2	1.59	0.84
45:LD:73:MET:HE3	45:LD:92:PHE:HB3	1.58	0.84
44:MG:291:ILE:HG23	44:MG:292:THR:H	1.42	0.84
44:MM:91:GLN:HG3	44:MM:121:ARG:HD2	1.59	0.84
45:NB:97:ALA:HB2	45:NB:143:THR:HB	1.56	0.84
44:NM:425:LEU:HD13	44:NM:428:LEU:HD12	1.57	0.84
45:NN:113:ILE:HG12	45:NN:117:LEU:HD23	1.57	0.84
44:OA:34:GLY:HA3	44:OA:60:LYS:HG3	1.57	0.84
44:OC:257:THR:HA	45:OF:397:TRP:CH2	2.12	0.84
45:PF:113:ILE:HD13	45:PF:150:LEU:HD22	1.59	0.84
45:PN:49:VAL:HG11	45:PN:241:ARG:HG2	1.59	0.84
44:QC:331:SER:O	44:QC:335:ILE:N	2.09	0.84
44:RA:331:SER:O	44:RA:335:ILE:HG12	1.77	0.84
45:RF:139:LEU:HA	45:RF:145:SER:HB3	1.59	0.84
44:SC:271:SER:OG	44:SC:301:MET:SD	2.35	0.84
44:TA:384:ILE:O	44:TA:387:VAL:HG22	1.77	0.84
45:TJ:405:GLU:O	45:TJ:409:THR:N	2.09	0.84
45:TN:210:ILE:HG23	45:TN:214:THR:HG21	1.57	0.84
44:UA:301:MET:HE1	44:UA:307:PRO:HD3	1.57	0.84
45:UD:256:ASN:HD22	45:UD:350:LYS:HD2	1.42	0.84
44:UK:136:LEU:HD22	44:UK:167:LEU:HD22	1.56	0.84
45:VD:249:ASP:OD1	45:VD:252:LYS:N	2.10	0.84
45:VF:3:GLU:OE2	45:VF:128:ASP:N	2.10	0.84
44:VK:226:ASN:ND2	44:VK:367:ASP:OD2	2.09	0.84
44:VM:31:GLN:OE1	44:VM:35:GLN:NE2	2.10	0.84
44:WC:90:GLU:HG3	44:WC:121:ARG:HH12	1.40	0.84
9:0H:356:LYS:NZ	44:GM:58:ALA:O	2.10	0.84
22:3L:42:LYS:CB	45:BB:320:ARG:NH1	2.36	0.84
35:5R:311:LYS:HG3	35:5R:329:TYR:HE1	1.43	0.84
43:8R:249:UNK:O	43:8R:253:UNK:N	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:129:CYS:HB2	44:BG:132:LEU:HD21	1.60	0.84
45:CJ:61:PRO:HD3	45:CJ:84:LEU:HB3	1.58	0.84
44:CK:134:GLY:HA3	44:CK:164:LYS:NZ	1.93	0.84
44:DA:102:ASN:HB3	44:DA:105:ARG:HB2	1.58	0.84
45:DN:178:THR:HB	45:DN:181:GLU:HG3	1.58	0.84
45:DN:210:ILE:O	45:DN:214:THR:OG1	1.96	0.84
44:EA:140:SER:HB2	46:EA:501:GTP:H1'	1.57	0.84
44:EM:311:LYS:N	44:EM:382:THR:OG1	2.10	0.84
44:GA:7:ILE:HD11	44:GA:135:PHE:HD2	1.42	0.84
44:GA:315:CYS:HA	44:GA:379:SER:HA	1.60	0.84
45:GD:116:VAL:HA	45:GD:119:VAL:HG12	1.58	0.84
44:GK:188:ILE:HD11	44:GK:391:LEU:HB3	1.59	0.84
45:HF:116:VAL:O	45:HF:119:VAL:HG12	1.77	0.84
45:HH:267:MET:HG2	45:HH:301:CYS:SG	2.17	0.84
45:IL:122:LYS:NZ	45:IL:123:GLU:OE2	2.09	0.84
44:IM:68:LEU:HD21	44:IM:118:CYS:HB2	1.58	0.84
44:JM:11:GLN:HA	44:JM:74:VAL:HG21	1.59	0.84
45:LD:97:ALA:HB3	45:LD:143:THR:HB	1.59	0.84
44:ME:275:ILE:HG23	44:ME:368:LEU:HD11	1.59	0.84
44:MK:254:GLU:HG2	45:MN:98:GLY:HA2	1.59	0.84
44:MM:403:ALA:HA	45:MN:260:PHE:HE2	1.40	0.84
45:NN:139:LEU:HD12	45:NN:170:VAL:HG22	1.59	0.84
45:OL:2:ARG:NH2	45:OL:240:LEU:O	2.11	0.84
44:PE:215:ARG:NH2	44:PE:300:ASN:OD1	2.11	0.84
45:PF:99:ASN:HA	45:PF:142:GLY:HA3	1.56	0.84
45:QD:1:MET:O	45:QD:2:ARG:HG2	1.77	0.84
45:QD:249:ASP:OD1	45:QD:252:LYS:N	2.07	0.84
45:QH:200:MET:CG	45:QH:266:PHE:HB2	2.03	0.84
44:RA:310:GLY:HA3	44:RA:383:ALA:HB2	1.59	0.84
44:RM:276:ILE:HD13	44:RM:281:ALA:HA	1.59	0.84
44:RM:310:GLY:HA3	44:RM:383:ALA:HB2	1.58	0.84
44:SC:271:SER:O	44:SC:377:MET:N	2.11	0.84
44:SI:268:MET:HB2	44:SI:380:ASN:HA	1.60	0.84
45:SN:70:PRO:HD3	45:SN:93:GLY:O	1.77	0.84
44:TE:140:SER:OG	46:TE:501:GTP:O2A	1.95	0.84
45:TL:321:MET:HB2	44:TM:221:ARG:NH2	1.93	0.84
45:UF:251:ARG:O	45:UF:255:VAL:N	2.10	0.84
44:VI:268:MET:HE3	44:VI:269:LEU:H	1.42	0.84
45:VJ:289:LEU:HD13	45:VJ:365:VAL:HG23	1.60	0.84
45:WB:286:VAL:HG12	45:WB:287:PRO:HD3	1.59	0.84
45:WN:320:ARG:O	45:WN:321:MET:HG2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0B:290:THR:OG1	45:KL:279:GLN:OE1	1.94	0.84
7:0F:141:ILE:HD12	44:GC:280:LYS:HB3	1.58	0.84
22:2L:870:ARG:HG3	45:CJ:357:PRO:HG2	1.59	0.84
15:3V:119:ILE:HG23	45:LD:390:ARG:HH12	1.41	0.84
35:4R:267:LEU:HD23	45:CF:56:GLY:HA3	1.57	0.84
43:8P:228:UNK:O	43:8P:232:UNK:N	2.09	0.84
43:8R:108:UNK:O	43:8R:112:UNK:N	2.10	0.84
45:AB:286:VAL:HG11	45:AB:325:GLU:HG2	1.57	0.84
44:AI:240:ALA:HB1	44:AI:356:ASN:HD22	1.40	0.84
45:AN:212:PHE:HZ	45:AN:220:PRO:HD3	1.42	0.84
44:BE:60:LYS:NZ	44:BE:85:GLN:O	2.09	0.84
44:BG:217:LEU:HD22	44:BG:219:ILE:CD1	2.07	0.84
44:BM:31:GLN:HG3	44:BM:32:PRO:HD2	1.59	0.84
44:DA:263:PRO:O	44:DA:266:HIS:ND1	2.08	0.84
44:DC:102:ASN:OD1	44:DC:105:ARG:N	2.11	0.84
44:DK:70:LEU:HD13	44:DK:110:ILE:HD12	1.59	0.84
44:EC:390:ARG:HE	44:EC:391:LEU:HD12	1.42	0.84
45:EF:375:GLN:O	45:EF:378:PHE:N	2.09	0.84
45:EH:251:ARG:O	45:EH:255:VAL:N	2.10	0.84
44:EK:174:SER:HB2	44:EK:177:VAL:O	1.77	0.84
45:GB:289:LEU:HD22	45:GB:363:MET:HB3	1.57	0.84
45:GH:260:PHE:HB3	45:GH:261:PRO:HD2	1.59	0.84
45:GJ:42:LEU:HA	45:GJ:45:GLU:HG3	1.59	0.84
45:GL:97:ALA:HB3	45:GL:143:THR:HB	1.58	0.84
44:HC:222:PRO:CG	45:HD:324:LYS:HD3	2.06	0.84
44:IG:64:ARG:NH2	44:IG:129:CYS:SG	2.50	0.84
44:IM:150:GLY:O	44:IM:154:LEU:N	2.10	0.84
44:IM:316:SER:N	44:IM:378:ILE:O	2.10	0.84
45:KB:5:VAL:HA	45:KB:62:ARG:CD	2.07	0.84
44:KM:237:SER:HG	44:KM:376:CYS:HG	0.87	0.84
44:MC:311:LYS:HD2	44:MC:342:GLN:HG3	1.59	0.84
45:MH:100:ASN:HD22	45:MH:103:LYS:HG2	1.40	0.84
44:MM:284:GLU:HG3	44:MM:286:LEU:HD22	1.58	0.84
44:NK:347:CYS:HA	45:NN:388:MET:HE1	1.59	0.84
45:OH:107:THR:OG1	45:OH:108:GLU:OE1	1.93	0.84
45:OJ:107:THR:OG1	45:OJ:108:GLU:OE1	1.94	0.84
45:OJ:248:SER:HA	45:OJ:252:LYS:HD2	1.56	0.84
45:PD:386:THR:OG1	45:PD:390:ARG:NH1	2.10	0.84
44:PK:221:ARG:NH1	45:PL:325:GLU:OE1	2.10	0.84
45:QD:166:THR:O	45:QD:200:MET:N	2.09	0.84
45:QJ:135:ILE:N	45:QJ:165:GLU:O	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:299:MET:HG3	45:QL:305:PRO:HG2	1.60	0.84
44:RE:348:PRO:CG	45:RF:384:GLN:HE21	1.91	0.84
44:RK:3:GLU:OE2	44:RK:131:GLY:N	2.09	0.84
44:RM:154:LEU:HB3	44:RM:197:HIS:HB3	1.59	0.84
44:SK:236:SER:O	44:SK:240:ALA:N	2.10	0.84
44:UC:321:GLY:HA2	44:UC:359:PRO:HB3	1.58	0.84
44:UE:114:ILE:HG23	44:UE:117:LEU:HD21	1.59	0.84
44:UI:201:ALA:N	44:UI:266:HIS:O	2.09	0.84
45:UJ:312:THR:HA	45:UJ:348:ASN:HB2	1.58	0.84
44:UK:195:LEU:O	44:UK:266:HIS:NE2	2.09	0.84
45:UN:68:LEU:HB3	45:UN:96:GLY:HA2	1.59	0.84
44:VM:284:GLU:HG3	44:VM:286:LEU:HD22	1.60	0.84
45:VN:328:GLU:O	45:VN:332:ASN:N	2.10	0.84
44:WK:200:VAL:HA	44:WK:266:HIS:HB2	1.57	0.84
1:6H:259:THR:OG1	44:FE:77:GLU:CD	2.16	0.84
27:2W:239:ARG:HH21	35:6R:5:LEU:CB	1.80	0.84
31:4H:191:LEU:CD2	45:AL:360:GLY:HA2	2.07	0.84
35:4R:107:PRO:HB3	45:BH:360:GLY:HA3	1.56	0.84
39:5J:44:ARG:HH11	44:JE:426:ALA:HB3	1.42	0.84
42:8L:304:UNK:O	42:8L:308:UNK:N	2.10	0.84
43:8P:49:UNK:O	43:8P:53:UNK:N	2.10	0.84
44:AC:212:ILE:HD11	44:AC:300:ASN:HA	1.59	0.84
44:AG:265:ILE:HD12	44:AG:432:TYR:CE1	2.12	0.84
45:AJ:232:ALA:HB1	45:AJ:268:ILE:HD12	1.60	0.84
44:AM:14:ILE:HD13	44:AM:75:ILE:HD11	1.59	0.84
45:CH:318:ARG:NH1	45:CH:358:PRO:HB3	1.92	0.84
44:DC:386:GLU:O	44:DC:389:SER:OG	1.96	0.84
44:DE:349:THR:HG23	45:DF:179:VAL:HA	1.59	0.84
44:DE:422:ARG:HH12	44:DE:426:ALA:HB2	1.43	0.84
45:DL:73:MET:O	45:DL:76:VAL:HG12	1.77	0.84
44:DM:63:PRO:HG2	44:DM:86:LEU:HG	1.57	0.84
44:EE:291:ILE:O	44:EE:294:SER:OG	1.93	0.84
45:EL:118:ASP:OD1	45:EL:119:VAL:N	2.10	0.84
45:EL:385:PHE:HE2	45:EL:412:GLU:HB2	1.43	0.84
45:FN:48:ASN:O	45:FN:62:ARG:NH1	2.10	0.84
44:GK:256:GLN:OE1	44:GK:258:ASN:ND2	2.10	0.84
44:HA:181:VAL:HG12	45:HB:348:ASN:HA	1.59	0.84
45:HF:383:GLU:O	45:HF:386:THR:HG22	1.77	0.84
45:IB:249:ASP:OD1	45:IB:252:LYS:N	2.10	0.84
44:JC:262:TYR:HB2	44:JC:265:ILE:HG22	1.59	0.84
45:JH:289:LEU:HB3	45:JH:363:MET:HE2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:377:MET:HG2	45:JJ:380:ARG:HH21	1.41	0.84
44:JM:49:PHE:HZ	44:JM:55:GLU:HB2	1.42	0.84
44:JM:414:GLU:HB2	44:JM:417:GLU:HG2	1.58	0.84
45:JN:99:ASN:HA	45:JN:142:GLY:HA3	1.57	0.84
44:KI:217:LEU:HD13	44:KI:277:SER:HB3	1.58	0.84
45:LN:286:VAL:HA	45:LN:289:LEU:HD12	1.59	0.84
45:NH:154:LYS:O	45:NH:157:GLU:HG2	1.77	0.84
45:NN:137:HIS:HE1	45:NN:166:THR:HB	1.40	0.84
45:OD:286:VAL:HG11	45:OD:325:GLU:HB2	1.59	0.84
44:PA:115:VAL:HG21	44:PA:152:LEU:HG	1.59	0.84
44:PA:352:LYS:HZ3	45:PD:178:THR:HA	1.42	0.84
45:PH:262:ARG:HG3	45:PH:263:LEU:HD12	1.59	0.84
45:PN:142:GLY:N	48:PN:501:GDP:O2B	2.10	0.84
44:QC:75:ILE:HG23	44:QC:92:LEU:HD23	1.59	0.84
44:RA:2:ARG:HH21	44:RA:242:LEU:HA	1.42	0.84
45:RB:317:PHE:HB2	45:RB:353:ILE:HG13	1.57	0.84
44:RG:287:SER:HA	44:RG:373:ARG:HD2	1.59	0.84
45:RJ:68:LEU:HD23	45:RJ:97:ALA:HA	1.58	0.84
44:SK:242:LEU:HD11	44:SK:252:ILE:HG13	1.59	0.84
44:SK:259:LEU:HD21	44:SK:316:SER:HB3	1.58	0.84
44:SM:11:GLN:HA	44:SM:14:ILE:HD12	1.59	0.84
44:SM:88:HIS:HE1	44:SM:90:GLU:HG2	1.42	0.84
45:TF:376:GLU:OE1	45:TF:376:GLU:N	2.10	0.84
44:UC:56:THR:OG1	44:VA:282:TYR:O	1.96	0.84
45:UL:166:THR:OG1	45:UL:198:GLU:O	1.94	0.84
45:VB:130:LEU:HB3	45:VB:162:ARG:HD2	1.59	0.84
45:VH:341:PHE:HB3	45:VH:348:ASN:HD21	1.43	0.84
26:2R:153:LYS:NZ	44:AG:245:ASP:HB2	1.93	0.84
40:6F:19:SER:HB2	40:6F:37:GLN:HE22	1.41	0.84
45:DB:207:LEU:HB3	45:DB:225:LEU:CD2	2.07	0.84
45:DB:246:LEU:HA	44:DC:11:GLN:HE22	1.42	0.84
45:ED:254:ALA:HB1	44:EE:407:TRP:HH2	1.42	0.84
44:FC:228:ASN:O	44:FC:232:ALA:N	2.11	0.84
44:GA:316:SER:O	44:GA:378:ILE:N	2.10	0.84
44:GI:54:SER:HB2	44:GI:64:ARG:HH12	1.40	0.84
44:GK:241:SER:OG	44:GK:250:VAL:O	1.96	0.84
45:HH:309:ARG:NH2	45:HH:342:VAL:HA	1.91	0.84
45:HL:54:ALA:HA	45:IL:283:ALA:HB2	1.59	0.84
44:JE:326:LYS:CD	45:JH:220:PRO:HG2	2.08	0.84
45:JN:113:ILE:HA	45:JN:116:VAL:HG12	1.58	0.84
44:KK:259:LEU:HD21	44:KK:268:MET:SD	2.17	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:188:ILE:HD11	44:LA:391:LEU:HB3	1.59	0.84
45:LN:268:ILE:O	45:LN:300:MET:HG2	1.76	0.84
44:MA:11:GLN:HE22	45:MB:247:ASN:H	1.20	0.84
44:OA:167:LEU:HD23	44:OA:200:VAL:HB	1.60	0.84
45:PJ:318:ARG:HH11	45:PJ:358:PRO:HG3	1.42	0.84
45:RH:272:PRO:HD3	45:RH:364:ALA:HA	1.58	0.84
45:SD:68:LEU:HD23	45:SD:97:ALA:HB2	1.59	0.84
44:TI:176:GLN:N	44:TI:207:GLU:OE2	2.10	0.84
45:TJ:67:ASP:HB3	45:TJ:73:MET:HE1	1.60	0.84
44:TK:332:ILE:HA	44:TK:335:ILE:HD13	1.58	0.84
44:VC:72:PRO:HG2	45:VD:1:MET:HE2	1.57	0.84
45:VN:420:SER:O	45:VN:424:GLN:N	2.10	0.84
45:WD:2:ARG:HG3	45:WD:240:LEU:HD11	1.57	0.84
45:WF:257:LEU:HD11	45:WF:314:SER:HB3	1.59	0.84
45:WN:270:PHE:HD2	45:WN:273:LEU:HD11	1.43	0.84
8:OG:26:LYS:HG3	44:IK:84:ARG:HH21	1.43	0.84
31:2H:187:LEU:HD11	45:AD:276:ARG:HH22	1.40	0.84
13:2T:146:MET:HE3	45:MJ:402:GLY:HA2	1.59	0.84
37:5D:35:PHE:CZ	44:KK:435:VAL:HG12	2.11	0.84
35:7R:182:ASP:OD1	35:7R:183:CYS:N	2.10	0.84
42:8L:60:UNK:O	45:SL:276:ARG:NH1	2.09	0.84
45:AJ:309:ARG:NH2	45:AJ:426:GLN:O	2.10	0.84
45:AL:281:TYR:HE1	45:ML:58:ARG:HH22	1.26	0.84
44:BA:407:TRP:CH2	45:BB:254:ALA:C	2.50	0.84
45:BJ:232:ALA:HB1	45:BJ:268:ILE:HD12	1.60	0.84
44:CA:23:LEU:O	44:CA:27:GLU:N	2.11	0.84
45:CD:262:ARG:HG3	45:CD:263:LEU:HD12	1.58	0.84
45:CF:345:ILE:HA	44:CG:398:MET:HE1	1.56	0.84
44:DK:230:LEU:HD12	44:DK:275:ILE:HD13	1.59	0.84
45:DL:378:PHE:O	45:DL:382:ALA:N	2.10	0.84
44:DM:273:ALA:O	44:DM:375:VAL:N	2.08	0.84
44:EC:117:LEU:HG	44:EC:121:ARG:HH12	1.42	0.84
44:EI:237:SER:HA	44:EI:320:ARG:HH11	1.39	0.84
44:FC:145:THR:HG23	44:FC:149:LEU:HD23	1.60	0.84
44:GE:363:VAL:HG13	44:GE:364:PRO:HD2	1.59	0.84
44:GM:217:LEU:HA	44:GM:277:SER:HB3	1.59	0.84
44:HG:172:TYR:HB2	44:HG:203:MET:CE	2.08	0.84
44:HI:257:THR:HA	45:HL:397:TRP:NE1	1.93	0.84
45:HL:49:VAL:HG11	45:HL:241:ARG:HG2	1.57	0.84
44:IA:13:GLY:HA2	44:IA:16:VAL:HG12	1.60	0.84
44:II:36:MET:HG3	44:II:37:PRO:CD	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:68:LEU:HD21	44:II:118:CYS:HB2	1.59	0.84
44:II:292:THR:HG21	44:II:331:SER:HB3	1.57	0.84
44:JI:73:THR:HG22	45:JJ:46:ARG:HH21	1.42	0.84
44:JI:292:THR:HG21	44:JI:331:SER:CB	2.07	0.84
45:MB:325:GLU:O	45:MB:329:GLN:NE2	2.10	0.84
44:NA:151:SER:O	44:NA:155:GLU:N	2.09	0.84
45:ND:420:SER:O	45:ND:424:GLN:N	2.09	0.84
44:NG:101:ASN:HA	44:NG:144:GLY:H	1.41	0.84
45:OF:203:ASP:OD2	45:OF:302:ALA:N	2.09	0.84
45:PD:317:PHE:HA	45:PD:365:VAL:HG22	1.59	0.84
45:QD:350:LYS:HD3	44:QE:180:ALA:HA	1.56	0.84
44:QK:145:THR:N	46:QK:501:GTP:O2G	2.09	0.84
44:RG:285:GLN:O	44:RG:373:ARG:NH1	2.10	0.84
45:RH:11:GLN:HG3	45:RH:72:THR:HG21	1.58	0.84
45:RN:76:VAL:HG13	45:RN:77:ARG:HD3	1.59	0.84
44:SK:316:SER:OG	44:SK:378:ILE:HB	1.78	0.84
45:SN:230:SER:O	45:SN:234:SER:N	2.10	0.84
44:TA:140:SER:OG	46:TA:501:GTP:O2B	1.94	0.84
45:TD:399:THR:HA	45:TD:403:MET:O	1.77	0.84
45:TF:309:ARG:NH2	45:TF:426:GLN:O	2.11	0.84
45:UB:316:LEU:HA	45:UB:352:SER:HB2	1.60	0.84
44:VC:119:LEU:O	44:VC:122:ILE:N	2.11	0.84
45:VL:306:ARG:HB2	45:VL:340:TYR:HE2	1.41	0.84
44:WE:269:LEU:HD12	44:WE:303:ALA:HB3	1.60	0.84
45:WL:318:ARG:HB2	45:WL:364:ALA:HB3	1.59	0.84
2:0A:51:LYS:O	35:7R:70:ARG:NH2	2.11	0.84
11:1Q:115:LYS:HZ1	44:AC:264:ARG:HH21	1.25	0.84
27:1W:61:LYS:HG3	45:LH:361:LEU:HD11	1.60	0.84
27:2W:240:PHE:HE1	35:6R:10:PRO:HD2	1.40	0.84
11:3Q:22:LEU:HD21	36:5S:202:ASP:HB3	1.59	0.84
31:4H:183:PHE:CZ	45:AL:215:LEU:HD11	2.13	0.84
37:5D:23:LEU:CD2	45:KN:411:ALA:HB3	2.08	0.84
39:5K:95:LEU:HB3	39:5K:98:LEU:HB2	1.59	0.84
35:6R:249:LEU:HG	44:CM:370:LYS:NZ	1.90	0.84
35:7R:115:LYS:HD2	35:7R:134:ILE:HD11	1.58	0.84
35:7R:264:ASP:HB3	35:7R:269:GLY:HA3	1.58	0.84
45:AH:274:THR:HG21	45:AH:279:GLN:HG3	1.59	0.84
45:AN:228:LEU:HD22	45:AN:273:LEU:HD11	1.59	0.84
44:BG:237:SER:HA	44:BG:320:ARG:HH21	1.43	0.84
44:EA:284:GLU:HG3	44:EA:286:LEU:CD2	2.06	0.84
45:EH:318:ARG:HH11	45:EH:358:PRO:HG3	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:247:ALA:O	45:FD:11:GLN:NE2	2.11	0.84
44:FC:209:ILE:HD13	44:FC:231:ILE:HD11	1.57	0.84
44:FI:11:GLN:NE2	45:FJ:245:GLN:O	2.09	0.84
44:GC:195:LEU:O	44:GC:266:HIS:NE2	2.10	0.84
44:GG:91:GLN:HG2	44:GG:121:ARG:HD2	1.58	0.84
45:GH:322:SER:CB	45:GH:324:LYS:H	1.91	0.84
44:GK:23:LEU:HD11	44:GK:361:THR:HG23	1.58	0.84
44:HG:215:ARG:NH2	44:HG:300:ASN:OD1	2.11	0.84
45:HL:268:ILE:HG22	45:HL:368:VAL:HA	1.59	0.84
44:IG:215:ARG:NH2	44:IG:300:ASN:OD1	2.10	0.84
45:JF:152:ILE:HG12	45:JF:164:MET:HE1	1.58	0.84
45:KF:54:ALA:HA	45:LF:283:ALA:HB2	1.58	0.84
45:KL:325:GLU:HA	45:KL:328:GLU:HG2	1.60	0.84
44:LA:271:SER:HB3	44:LA:377:MET:HG2	1.59	0.84
45:LD:242:PHE:HD2	45:LD:356:ILE:HB	1.41	0.84
45:MB:114:ASP:OD1	45:MB:115:SER:N	2.10	0.84
45:ND:318:ARG:HA	45:ND:354:CYS:HB3	1.60	0.84
45:OB:149:THR:O	45:OB:153:SER:N	2.09	0.84
44:OG:209:ILE:HG21	44:OG:227:LEU:HG	1.59	0.84
45:PN:258:ILE:HG13	45:PN:266:PHE:HZ	1.43	0.84
45:QB:217:LEU:HD11	45:QB:220:PRO:HA	1.59	0.84
45:QB:309:ARG:O	45:QB:372:THR:OG1	1.95	0.84
44:QC:76:ASP:OD1	44:QC:77:GLU:N	2.10	0.84
44:QC:244:PHE:HB2	44:QC:356:ASN:HD21	1.43	0.84
45:QJ:257:LEU:HD11	45:QJ:314:SER:HB2	1.60	0.84
45:QJ:315:ALA:O	45:QJ:352:SER:N	2.11	0.84
44:QK:337:THR:O	44:QK:339:ARG:NH1	2.11	0.84
45:RB:27:GLU:OE2	45:RB:241:ARG:NH1	2.09	0.84
45:RJ:248:SER:HA	45:RJ:252:LYS:HD2	1.60	0.84
44:SA:178:SER:OG	44:SA:183:GLU:OE2	1.96	0.84
44:SC:55:GLU:HG3	44:SC:57:GLY:H	1.43	0.84
44:SM:390:ARG:HB2	44:SM:394:LYS:NZ	1.93	0.84
44:TI:70:LEU:HD11	44:TI:149:LEU:HD21	1.60	0.84
44:UG:209:ILE:HD11	44:UG:302:MET:HG3	1.58	0.84
45:UJ:252:LYS:HA	45:UJ:255:VAL:HB	1.59	0.84
45:UJ:257:LEU:HD11	45:UJ:314:SER:HB2	1.60	0.84
44:VA:384:ILE:O	44:VA:387:VAL:HG22	1.76	0.84
45:VN:61:PRO:HG2	45:VN:84:LEU:HB3	1.60	0.84
44:WA:149:LEU:HA	44:WA:153:LEU:HD13	1.60	0.84
44:WA:164:LYS:O	44:WA:166:LYS:NZ	2.10	0.84
44:WC:268:MET:HB2	44:WC:379:SER:O	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:123:ARG:NH1	44:WG:127:ASP:OD1	2.11	0.84
10:0N:10:TYR:OH	45:IN:52:ASN:HA	1.77	0.84
2:3A:104:ARG:HG3	35:6R:59:MET:SD	2.17	0.84
37:5C:55:ALA:HB2	44:KG:437:ILE:HD11	1.59	0.84
35:6R:26:HIS:HA	44:LK:244:PHE:HD1	1.41	0.84
45:AD:341:PHE:HB3	45:AD:348:ASN:HD21	1.42	0.84
44:AM:81:GLY:O	44:AM:84:ARG:HG3	1.77	0.84
45:BF:342:VAL:HG23	45:BF:345:ILE:HG22	1.59	0.84
45:BJ:237:THR:OG1	45:BJ:241:ARG:NH1	2.09	0.84
44:CC:207:GLU:HA	44:CC:210:TYR:CD2	2.12	0.84
44:CG:323:VAL:HG11	44:CG:355:ILE:HD12	1.59	0.84
45:CH:11:GLN:HG2	45:CH:72:THR:HG21	1.58	0.84
45:CL:257:LEU:HD11	45:CL:314:SER:HB2	1.56	0.84
44:CM:211:ASP:HB3	44:CM:215:ARG:HH12	1.43	0.84
44:DA:8:HIS:O	44:DA:68:LEU:N	2.11	0.84
44:DK:115:VAL:HG11	44:DK:152:LEU:HD23	1.57	0.84
44:EA:275:ILE:HG23	44:EA:368:LEU:HD11	1.57	0.84
44:EC:171:ILE:HG21	46:EC:501:GTP:HN22	1.42	0.84
44:EC:319:TYR:O	44:EC:356:ASN:N	2.11	0.84
44:FI:221:ARG:NH2	44:FI:222:PRO:O	2.10	0.84
44:GK:76:ASP:OD2	45:GL:46:ARG:NH2	2.11	0.84
45:GL:183:TYR:HE2	45:GL:394:PHE:HB2	1.43	0.84
45:IH:124:ALA:HB1	45:IH:130:LEU:HD11	1.59	0.84
44:IM:149:LEU:O	44:IM:153:LEU:N	2.10	0.84
45:KH:52:ASN:OD1	45:KH:62:ARG:NH2	2.10	0.84
45:LD:289:LEU:HD22	45:LD:363:MET:HB3	1.59	0.84
45:LF:67:ASP:OD1	45:LF:68:LEU:N	2.10	0.84
44:LI:259:LEU:HD11	44:LI:316:SER:HB3	1.59	0.84
44:NI:222:PRO:O	45:NJ:322:SER:OG	1.95	0.84
45:NJ:97:ALA:HB3	45:NJ:143:THR:HB	1.60	0.84
45:OF:248:SER:HB2	45:OF:252:LYS:HD2	1.59	0.84
45:PF:372:THR:HA	45:PF:422:TYR:HE2	1.42	0.84
44:PM:48:ALA:HB1	44:PM:243:ARG:HB2	1.60	0.84
45:RF:325:GLU:OE1	44:RG:221:ARG:NH1	2.10	0.84
44:SA:275:ILE:HG12	44:SA:368:LEU:HD11	1.58	0.84
44:SC:68:LEU:HD22	44:SC:153:LEU:HD11	1.58	0.84
44:SC:284:GLU:HG3	44:SC:286:LEU:HD22	1.59	0.84
44:SG:146:GLY:O	44:SG:150:GLY:N	2.11	0.84
44:SG:174:SER:OG	44:SG:206:ASN:OD1	1.93	0.84
45:SL:3:GLU:HB3	45:SL:49:VAL:HA	1.58	0.84
44:TC:189:LEU:HD23	44:TC:421:ALA:HB2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:115:VAL:HG22	44:TM:119:LEU:HD23	1.58	0.84
44:UA:349:THR:HG23	45:UB:179:VAL:HA	1.58	0.84
44:UC:294:SER:HA	44:UC:297:GLU:HG3	1.60	0.84
44:UE:4:VAL:HG12	44:UE:51:THR:O	1.77	0.84
45:UH:63:ALA:O	45:UH:89:ASN:ND2	2.10	0.84
44:VE:15:GLN:NE2	45:VF:245:GLN:O	2.11	0.84
45:VF:135:ILE:HG13	45:VF:152:ILE:HD11	1.59	0.84
44:VI:141:VAL:CG2	44:VI:187:SER:HA	2.08	0.84
44:VM:296:PHE:HE2	44:VM:335:ILE:HG13	1.42	0.84
44:WC:141:VAL:HG22	44:WC:187:SER:HA	1.59	0.84
44:WC:238:LEU:HD11	44:WC:255:PHE:CZ	2.13	0.84
1:6H:379:ASP:OD2	44:FK:22:GLU:OE2	1.96	0.84
22:1L:176:ARG:HH12	44:CI:367:ASP:HA	1.40	0.84
15:1V:146:PRO:HG3	44:LK:414:GLU:OE2	1.77	0.84
17:2B:237:LYS:HD2	44:JK:84:ARG:HH22	1.42	0.84
40:6F:134:PHE:HD1	45:IH:356:ILE:HD12	1.42	0.84
35:6R:12:LEU:O	45:LN:227:HIS:CE1	2.30	0.84
35:6R:470:PHE:HE2	45:EN:83:GLN:CG	1.91	0.84
42:8N:226:UNK:O	42:8N:230:UNK:N	2.10	0.84
45:AJ:16:ILE:HD11	45:AJ:229:VAL:HG11	1.59	0.84
44:AK:141:VAL:HG11	44:AK:172:TYR:CD1	2.12	0.84
44:DA:77:GLU:O	44:DA:81:GLY:N	2.10	0.84
45:DB:136:THR:HG22	45:DB:167:PHE:HB2	1.58	0.84
44:DK:195:LEU:O	44:DK:266:HIS:NE2	2.08	0.84
44:DM:208:ALA:HB2	44:DM:304:LYS:HB2	1.58	0.84
45:DN:136:THR:HG22	45:DN:167:PHE:HB2	1.59	0.84
45:DN:394:PHE:HA	45:DN:397:TRP:HZ3	1.39	0.84
45:EB:64:ILE:HD11	45:EB:123:GLU:HG3	1.57	0.84
45:EB:223:GLY:HA2	45:EB:226:ASN:HD22	1.42	0.84
45:EH:19:LYS:HA	45:EH:22:GLU:HB2	1.59	0.84
44:FA:322:ASP:OD1	44:FA:373:ARG:NH1	2.10	0.84
44:FE:394:LYS:HE3	45:FF:346:PRO:HB2	1.56	0.84
44:FG:207:GLU:OE1	44:FG:304:LYS:NZ	2.10	0.84
45:FL:67:ASP:HB3	45:FL:73:MET:HE2	1.60	0.84
45:GB:52:ASN:HB2	45:GB:60:VAL:HG13	1.60	0.84
45:GL:249:ASP:OD1	45:GL:252:LYS:N	2.11	0.84
44:GM:317:MET:HA	44:GM:377:MET:HA	1.58	0.84
45:HB:91:VAL:HG21	45:HB:116:VAL:HG11	1.60	0.84
44:HC:204:LEU:HD13	44:HC:231:ILE:HD12	1.59	0.84
44:IA:294:SER:O	44:IA:300:ASN:ND2	2.11	0.84
44:JK:261:PRO:HG2	44:JK:313:MET:CE	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:317:MET:SD	44:KM:377:MET:HG2	2.18	0.84
44:LG:262:TYR:HB3	44:LG:263:PRO:HD2	1.59	0.84
44:LM:81:GLY:O	44:LM:84:ARG:HG3	1.77	0.84
45:MF:332:ASN:OD1	45:MF:336:LYS:NZ	2.10	0.84
45:ND:8:GLN:NE2	45:ND:14:ASN:OD1	2.10	0.84
45:NL:193:VAL:HG21	45:NL:262:ARG:HH21	1.40	0.84
44:NM:241:SER:OG	44:NM:250:VAL:O	1.95	0.84
45:OB:27:GLU:O	45:OB:43:GLN:NE2	2.11	0.84
45:OJ:30:ILE:HD11	45:OJ:47:ILE:HD11	1.59	0.84
45:OL:11:GLN:HA	45:OL:14:ASN:HD21	1.43	0.84
44:PA:68:LEU:HD21	44:PA:118:CYS:HB2	1.60	0.84
45:PB:290:THR:HA	45:PB:293:MET:HG2	1.60	0.84
44:PC:141:VAL:CG1	44:PC:172:TYR:HA	2.08	0.84
44:PE:407:TRP:CZ3	45:PF:255:VAL:HA	2.12	0.84
44:QC:11:GLN:OE1	44:QC:11:GLN:N	2.09	0.84
45:QD:202:ILE:HG23	45:QD:300:MET:HE2	1.60	0.84
44:QG:98:ASP:O	44:QG:105:ARG:NH1	2.11	0.84
45:QH:255:VAL:HG21	44:QI:100:ALA:O	1.78	0.84
45:QJ:5:VAL:HG12	45:QJ:62:ARG:HD3	1.60	0.84
45:QL:198:GLU:HA	45:QL:264:HIS:HB2	1.60	0.84
44:QM:271:SER:OG	44:QM:301:MET:HA	1.78	0.84
45:RB:121:ARG:NE	45:RB:158:GLU:OE1	2.10	0.84
45:RD:193:VAL:HA	45:RD:264:HIS:HE1	1.43	0.84
45:RF:302:ALA:HB3	45:RF:377:MET:HE2	1.58	0.84
45:RJ:245:GLN:O	44:RK:11:GLN:NE2	2.11	0.84
44:RK:271:SER:HA	44:RK:302:MET:HB2	1.58	0.84
45:SB:312:THR:O	45:SB:370:ASN:N	2.11	0.84
44:SE:240:ALA:HB1	44:SE:356:ASN:HD22	1.43	0.84
45:SN:139:LEU:HA	45:SN:145:SER:HB3	1.58	0.84
45:UN:42:LEU:HA	45:UN:45:GLU:HG3	1.60	0.84
44:VG:144:GLY:O	44:VG:148:GLY:N	2.11	0.84
44:VM:27:GLU:HB2	44:VM:361:THR:HG21	1.60	0.84
45:VN:113:ILE:HD13	45:VN:150:LEU:HD22	1.59	0.84
44:WA:51:THR:HG21	44:WA:243:ARG:HD3	1.60	0.84
44:WG:56:THR:HG23	44:WG:58:ALA:H	1.43	0.84
44:WI:233:GLN:NE2	44:WI:272:TYR:OH	2.11	0.84
44:WM:2:ARG:O	44:WM:51:THR:OG1	1.94	0.84
4:1C:56:THR:HA	44:EM:219:ILE:HG12	1.59	0.83
25:1P:200:LEU:HD11	45:TH:276:ARG:HD2	1.60	0.83
26:3R:455:ASN:OD1	45:FL:219:THR:OG1	1.91	0.83
37:5D:107:TYR:HE1	44:NM:217:LEU:HD12	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5E:90:SER:OG	45:KB:194:GLU:O	1.95	0.83
11:6Q:35:LYS:HD2	11:6Q:37:ILE:HD11	1.59	0.83
11:6Q:50:MET:HE1	11:6Q:159:ASN:HA	1.58	0.83
35:7R:573:LEU:HD23	35:7R:585:ILE:HD11	1.59	0.83
45:AB:55:THR:HG23	45:BB:283:ALA:HA	0.87	0.83
45:AD:342:VAL:HG13	45:AD:345:ILE:HG22	1.60	0.83
45:AN:45:GLU:O	45:AN:46:ARG:HD3	1.78	0.83
45:AN:281:TYR:CG	45:MN:86:ARG:HD3	2.11	0.83
45:BD:182:PRO:O	45:BD:186:THR:OG1	1.96	0.83
44:BG:11:GLN:NE2	45:BH:245:GLN:O	2.11	0.83
44:BG:408:TYR:HB3	44:BG:413:MET:HE2	1.59	0.83
45:BL:189:VAL:HG11	45:BL:415:MET:HE2	1.59	0.83
44:CG:71:GLU:OE1	44:CG:73:THR:N	2.11	0.83
44:CI:91:GLN:HG3	44:CI:92:LEU:HD12	1.58	0.83
45:CJ:249:ASP:OD1	45:CJ:250:LEU:N	2.11	0.83
45:DB:324:LYS:N	44:DC:221:ARG:HH12	1.74	0.83
45:DD:172:SER:HB3	45:DD:204:ASN:OD1	1.78	0.83
44:EI:7:ILE:HD11	44:EI:137:VAL:HB	1.60	0.83
44:EM:131:GLY:O	44:EM:133:GLN:NE2	2.10	0.83
45:EN:19:LYS:HZ2	45:EN:227:HIS:HA	1.41	0.83
44:FK:56:THR:HA	44:GK:285:GLN:HB3	1.58	0.83
44:FM:149:LEU:O	44:FM:153:LEU:N	2.09	0.83
44:FM:149:LEU:HD13	44:FM:152:LEU:HD23	1.60	0.83
44:GA:99:ALA:O	44:GA:105:ARG:HD3	1.78	0.83
44:GI:271:SER:OG	44:GI:377:MET:SD	2.36	0.83
44:GM:224:TYR:O	44:GM:227:LEU:N	2.10	0.83
44:GM:316:SER:O	44:GM:378:ILE:N	2.10	0.83
44:HA:1:MET:HE3	45:HD:94:GLN:HA	1.59	0.83
44:HK:254:GLU:HG2	45:HN:98:GLY:HA2	1.58	0.83
44:HM:143:GLY:O	44:HM:147:SER:OG	1.94	0.83
44:IA:420:GLU:O	44:IA:424:ASP:N	2.10	0.83
45:IB:135:ILE:HB	45:IB:166:THR:HG22	1.59	0.83
44:II:102:ASN:HB3	44:II:105:ARG:HB2	1.59	0.83
44:II:407:TRP:CZ3	45:IJ:255:VAL:HA	2.12	0.83
45:IJ:67:ASP:OD1	45:IJ:68:LEU:N	2.11	0.83
45:JB:267:MET:N	45:JB:369:GLY:O	2.09	0.83
44:JE:121:ARG:NH1	44:JE:121:ARG:HA	1.93	0.83
45:JH:107:THR:OG1	45:JH:401:GLU:OE2	1.95	0.83
45:JJ:69:GLU:OE1	45:JJ:71:GLY:N	2.11	0.83
45:JL:203:ASP:OD2	45:JL:302:ALA:N	2.11	0.83
45:KH:263:LEU:HG	45:KH:422:TYR:HE1	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:272:TYR:HD1	44:KM:376:CYS:HB3	1.43	0.83
44:LE:155:GLU:OE1	44:LE:197:HIS:NE2	2.10	0.83
44:LK:37:PRO:HD2	44:LK:40:LYS:HE2	1.60	0.83
44:MC:226:ASN:ND2	44:MC:367:ASP:OD2	2.11	0.83
45:MF:135:ILE:HG13	45:MF:152:ILE:HD11	1.59	0.83
45:MJ:383:GLU:O	45:MJ:386:THR:HG22	1.78	0.83
44:NE:11:GLN:HE22	45:NF:246:LEU:HA	1.43	0.83
44:NM:99:ALA:HB3	44:NM:145:THR:HB	1.57	0.83
45:PD:342:VAL:HG13	45:PD:345:ILE:HG22	1.60	0.83
44:QA:71:GLU:OE2	44:QA:73:THR:OG1	1.96	0.83
45:QL:164:MET:HB2	45:QL:197:ASP:H	1.41	0.83
45:QL:318:ARG:HG2	45:QL:354:CYS:CB	2.08	0.83
44:RA:295:ALA:HB1	44:RA:377:MET:CE	2.08	0.83
45:RL:271:ALA:O	45:RL:365:VAL:N	2.11	0.83
45:SH:309:ARG:NH2	45:SH:426:GLN:O	2.11	0.83
45:SN:118:ASP:OD1	45:SN:122:LYS:NZ	2.11	0.83
45:TF:16:ILE:HA	45:TF:19:LYS:HZ3	1.41	0.83
45:TJ:202:ILE:HG23	45:TJ:300:MET:HE2	1.60	0.83
45:UB:346:PRO:HD2	44:UC:398:MET:HE3	1.60	0.83
45:UD:286:VAL:HB	45:UD:329:GLN:HE22	1.42	0.83
44:UI:215:ARG:NH2	44:UI:300:ASN:OD1	2.10	0.83
44:UM:101:ASN:HA	44:UM:144:GLY:CA	2.05	0.83
44:VA:298:PRO:HA	44:VA:301:MET:CE	2.08	0.83
44:VI:102:ASN:OD1	44:VI:105:ARG:N	2.11	0.83
44:VM:246:GLY:HA3	44:VM:356:ASN:HA	1.60	0.83
44:WC:31:GLN:HE21	44:WC:37:PRO:HG3	1.40	0.83
45:WF:248:SER:HA	45:WF:252:LYS:HG3	1.60	0.83
2:0A:129:PRO:HD3	45:AB:362:LYS:CE	2.09	0.83
17:1B:63:GLN:HE22	44:LC:80:THR:HB	1.38	0.83
32:3I:281:THR:OG1	45:GJ:218:THR:OG1	1.94	0.83
36:5S:192:MET:SD	45:AH:424:GLN:NE2	2.50	0.83
35:6R:446:PHE:CE1	35:6R:487:GLU:CG	2.60	0.83
42:8L:116:UNK:O	42:8L:120:UNK:N	2.11	0.83
44:AG:238:LEU:HG	44:AG:255:PHE:HE2	1.43	0.83
44:AI:210:TYR:HE2	44:AI:227:LEU:HD11	1.43	0.83
45:CL:2:ARG:NH2	44:CM:71:GLU:OE2	2.10	0.83
44:CM:108:TYR:O	44:CM:112:LYS:NZ	2.11	0.83
44:DA:9:VAL:HG13	44:DA:139:ASN:HB3	1.58	0.83
45:DJ:20:PHE:HB2	45:DJ:233:MET:HE1	1.60	0.83
44:EE:60:LYS:NZ	44:EE:85:GLN:O	2.11	0.83
44:EI:2:ARG:HD2	44:EI:242:LEU:HD11	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:288:GLU:O	45:EJ:291:GLN:HG3	1.78	0.83
45:FB:269:GLY:N	45:FB:367:PHE:O	2.11	0.83
44:FG:69:ASP:OD1	44:FG:70:LEU:N	2.12	0.83
44:FM:14:ILE:O	44:FM:18:ASN:ND2	2.09	0.83
45:FN:12:CYS:O	45:FN:16:ILE:N	2.11	0.83
45:GB:379:LYS:O	45:GB:383:GLU:N	2.11	0.83
44:GE:141:VAL:HG21	44:GE:172:TYR:CD1	2.12	0.83
45:GN:294:PHE:HD2	45:GN:333:VAL:HG11	1.42	0.83
45:GN:326:VAL:O	45:GN:330:MET:HG2	1.78	0.83
45:ID:372:THR:HA	45:ID:422:TYR:HE2	1.42	0.83
44:IM:15:GLN:HA	44:IM:18:ASN:ND2	1.93	0.83
45:JB:267:MET:HE3	45:JB:374:ILE:HG12	1.58	0.83
45:JB:296:ALA:CA	45:JB:299:MET:HE1	2.07	0.83
45:JB:305:PRO:HA	45:JB:373:ALA:HB2	1.60	0.83
45:JL:274:THR:HG21	45:JL:282:ARG:HE	1.43	0.83
45:LB:121:ARG:NH1	45:LB:159:TYR:OH	2.09	0.83
44:ME:269:LEU:CD1	44:ME:433:GLU:HB2	2.07	0.83
45:OD:139:LEU:HD23	45:OD:145:SER:HA	1.59	0.83
45:PH:323:THR:O	45:PH:327:ASP:N	2.11	0.83
44:PK:325:PRO:HG2	45:PN:222:TYR:CE2	2.13	0.83
45:QH:255:VAL:HA	44:QI:407:TRP:HZ3	1.43	0.83
45:RH:139:LEU:N	45:RH:169:VAL:O	2.09	0.83
45:SB:31:ASP:OD2	45:SB:37:HIS:ND1	2.11	0.83
45:TH:221:THR:HG23	45:TH:223:GLY:H	1.43	0.83
44:TK:282:TYR:OH	44:TK:370:LYS:O	1.96	0.83
44:TM:135:PHE:N	44:TM:165:SER:O	2.10	0.83
44:UA:209:ILE:HG21	44:UA:227:LEU:HD12	1.60	0.83
44:UG:310:GLY:HA3	44:UG:383:ALA:HB2	1.60	0.83
45:UN:144:GLY:O	45:UN:148:GLY:N	2.10	0.83
44:VG:96:LYS:HB3	45:VH:1:MET:HE2	1.60	0.83
44:VI:31:GLN:HE22	44:VI:37:PRO:HG3	1.44	0.83
45:WL:203:ASP:OD2	45:WL:302:ALA:N	2.10	0.83
32:2I:125:LEU:O	44:GC:215:ARG:NH2	2.11	0.83
10:2N:10:TYR:OH	45:IB:51:TYR:O	1.94	0.83
34:4F:198:LYS:NZ	44:IM:217:LEU:O	2.12	0.83
44:AE:319:TYR:HD2	44:AE:323:VAL:HG21	1.43	0.83
44:BG:237:SER:HA	44:BG:320:ARG:NH2	1.92	0.83
45:BH:200:MET:CE	45:BH:268:ILE:HG21	2.08	0.83
44:CC:229:ARG:O	44:CC:233:GLN:N	2.10	0.83
45:CD:143:THR:OG1	48:CD:501:GDP:O1B	1.94	0.83
45:CN:222:TYR:HA	45:CN:225:LEU:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:144:GLY:N	48:DB:501:GDP:O1B	2.09	0.83
44:DC:207:GLU:HA	44:DC:210:TYR:CD2	2.13	0.83
44:DG:14:ILE:HD11	44:DG:69:ASP:HB2	1.60	0.83
45:DL:8:GLN:HE21	45:DL:14:ASN:HA	1.42	0.83
45:DN:193:VAL:HG21	45:DN:418:LEU:HD22	1.60	0.83
44:FA:190:SER:O	44:FA:194:LEU:N	2.11	0.83
45:FJ:256:ASN:HD22	45:FJ:350:LYS:HD2	1.43	0.83
45:GB:27:GLU:OE2	45:GB:241:ARG:NH1	2.11	0.83
45:GD:5:VAL:HG12	45:GD:62:ARG:HD3	1.60	0.83
44:HE:10:GLY:O	44:HE:14:ILE:N	2.12	0.83
45:HJ:22:GLU:HG2	45:HJ:81:PHE:HD2	1.42	0.83
45:HN:86:ARG:CZ	45:IN:278:SER:HA	2.09	0.83
45:IB:223:GLY:HA2	45:IB:226:ASN:HD22	1.43	0.83
44:IG:231:ILE:HD11	44:IG:302:MET:HE2	1.59	0.83
44:JC:423:GLU:OE1	44:NC:339:ARG:NH1	2.12	0.83
44:JE:1:MET:HB3	44:JE:2:ARG:HH11	1.44	0.83
44:JK:312:TYR:CE2	44:JK:341:ILE:HG23	2.14	0.83
44:JM:65:ALA:O	44:JM:91:GLN:NE2	2.09	0.83
45:JN:215:LEU:HA	45:JN:275:SER:HB3	1.60	0.83
45:KB:5:VAL:HG11	45:KB:123:GLU:HG3	1.60	0.83
44:KG:263:PRO:HG3	45:KJ:396:HIS:CD2	2.13	0.83
44:KM:169:PHE:HD1	44:KM:202:VAL:HG21	1.43	0.83
44:LG:91:GLN:HA	44:LG:121:ARG:HH12	1.43	0.83
44:LG:292:THR:HG21	44:LG:331:SER:HB2	1.57	0.83
45:LN:39:ASP:OD1	45:LN:43:GLN:NE2	2.10	0.83
45:MB:301:CYS:HB3	45:MB:377:MET:CE	2.07	0.83
44:MK:100:ALA:HA	45:ML:252:LYS:HZ3	1.42	0.83
44:MM:269:LEU:HD23	44:MM:384:ILE:HD13	1.59	0.83
45:OH:293:MET:HE1	45:OH:365:VAL:HG21	1.58	0.83
44:PC:203:MET:HE2	44:PC:205:ASP:HB3	1.59	0.83
45:PH:186:THR:HA	45:PH:415:MET:HE1	1.59	0.83
44:PM:108:TYR:HA	44:PM:112:LYS:HE3	1.58	0.83
45:QH:133:PHE:HB2	45:QH:164:MET:HE2	1.59	0.83
44:RC:298:PRO:HA	44:RC:301:MET:HG2	1.59	0.83
45:SH:1:MET:SD	45:SH:2:ARG:HD3	2.16	0.83
44:TG:420:GLU:HA	44:TG:423:GLU:HG2	1.60	0.83
44:TK:237:SER:HA	44:TK:320:ARG:HH11	1.43	0.83
44:TM:91:GLN:HA	44:TM:121:ARG:NH1	1.92	0.83
44:UE:114:ILE:HD12	44:UE:117:LEU:HD21	1.60	0.83
44:UM:319:TYR:O	44:UM:355:ILE:HA	1.78	0.83
44:WG:73:THR:HA	45:WH:46:ARG:NH2	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:287:PRO:HG3	45:WN:329:GLN:HE22	1.43	0.83
12:1S:46:TRP:CD1	44:WC:89:PRO:HD3	2.14	0.83
10:2N:1:MET:HG2	44:IA:114:ILE:HG22	1.57	0.83
6:3E:119:ASP:HA	35:6R:579:ASN:HD21	0.68	0.83
37:5D:22:TYR:O	45:KN:186:THR:HG21	1.78	0.83
35:6R:26:HIS:ND1	44:LK:244:PHE:HE1	1.76	0.83
42:8N:111:UNK:O	42:8N:115:UNK:N	2.10	0.83
44:AE:102:ASN:HB3	44:AE:105:ARG:HG3	1.60	0.83
44:AE:141:VAL:HG11	44:AE:172:TYR:CD1	2.13	0.83
45:AH:21:TRP:HA	45:AH:24:ILE:HG22	1.60	0.83
44:AK:7:ILE:HD11	44:AK:122:ILE:HD11	1.61	0.83
45:AN:66:MET:HE2	45:AN:116:VAL:HG21	1.60	0.83
45:BJ:236:VAL:HG13	45:BJ:237:THR:HG23	1.61	0.83
45:FB:40:SER:N	45:FB:43:GLN:OE1	2.09	0.83
44:FE:311:LYS:HD2	44:FE:342:GLN:HG3	1.59	0.83
44:FE:407:TRP:HZ3	45:FF:255:VAL:HA	1.42	0.83
45:FN:55:THR:HG23	45:GN:283:ALA:HA	1.60	0.83
44:GA:222:PRO:O	45:GB:324:LYS:NZ	2.11	0.83
44:GA:311:LYS:N	44:GA:382:THR:OG1	2.10	0.83
44:GA:362:VAL:HG11	44:GA:370:LYS:CB	2.08	0.83
45:GD:246:LEU:HD21	46:GD:501:GTP:H8	1.42	0.83
44:HG:256:GLN:O	45:HJ:397:TRP:NE1	2.12	0.83
44:HI:328:VAL:HG21	44:HI:355:ILE:HD11	1.58	0.83
44:HM:100:ALA:HB1	45:HN:255:VAL:HG21	1.60	0.83
44:IA:316:SER:O	44:IA:378:ILE:N	2.11	0.83
44:JE:76:ASP:OD2	45:JF:46:ARG:NH2	2.11	0.83
44:JI:311:LYS:HD3	44:JI:342:GLN:HG3	1.61	0.83
44:JI:372:MET:HG3	44:JI:373:ARG:HD2	1.59	0.83
44:KA:93:ILE:HG22	44:KA:114:ILE:HD11	1.60	0.83
44:KC:288:VAL:HG11	44:KC:327:ASP:HB3	1.59	0.83
44:KG:349:THR:OG1	45:KJ:176:SER:OG	1.95	0.83
44:LC:36:MET:SD	44:LC:37:PRO:HD2	2.17	0.83
44:NA:278:ALA:CA	44:NA:369:ALA:HB2	2.09	0.83
45:NF:2:ARG:HB2	45:NF:131:GLN:HG3	1.60	0.83
44:NI:398:MET:HE1	45:NJ:345:ILE:HA	1.58	0.83
44:OA:190:SER:O	44:OA:193:SER:OG	1.96	0.83
44:OK:229:ARG:HH11	44:OK:363:VAL:HG11	1.43	0.83
45:OL:22:GLU:O	45:OL:25:SER:OG	1.95	0.83
44:PA:135:PHE:HB2	44:PA:166:LYS:HG2	1.61	0.83
44:PI:209:ILE:HG12	44:PI:302:MET:CE	2.07	0.83
45:PJ:16:ILE:HD12	45:PJ:229:VAL:HG11	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:313:MET:HG3	44:QA:382:THR:HG22	1.59	0.83
45:QH:135:ILE:HG13	45:QH:152:ILE:HD11	1.60	0.83
45:RD:113:ILE:HD13	45:RD:154:LYS:HE2	1.60	0.83
44:RK:133:GLN:O	44:RK:165:SER:OG	1.95	0.83
45:SJ:257:LEU:HD13	45:SJ:266:PHE:CE2	2.14	0.83
45:SN:52:ASN:OD1	45:SN:62:ARG:NH2	2.11	0.83
44:TA:248:LEU:HB2	44:TA:355:ILE:HD12	1.58	0.83
44:TG:226:ASN:HA	44:TG:229:ARG:HD2	1.59	0.83
44:TI:155:GLU:HA	44:TI:197:HIS:CE1	2.13	0.83
45:TJ:175:VAL:HG21	45:TJ:204:ASN:HB2	1.61	0.83
44:TK:427:ALA:O	44:TK:431:ASP:N	2.09	0.83
45:TL:318:ARG:N	45:TL:364:ALA:O	2.11	0.83
45:UB:341:PHE:HB3	45:UB:348:ASN:HD21	1.42	0.83
45:UH:166:THR:OG1	45:UH:198:GLU:O	1.95	0.83
45:UN:101:TRP:H	45:UN:398:TYR:HE1	1.24	0.83
44:VG:71:GLU:OE1	44:VG:73:THR:N	2.09	0.83
44:VG:294:SER:HA	44:VG:297:GLU:HG3	1.58	0.83
45:VL:327:ASP:O	45:VL:331:LEU:N	2.10	0.83
44:VM:179:THR:O	45:VN:350:LYS:HA	1.77	0.83
45:WH:97:ALA:HB2	45:WH:143:THR:HB	1.59	0.83
44:WM:181:VAL:HG22	45:WN:256:ASN:OD1	1.78	0.83
37:5D:117:PRO:HG2	44:NM:322:ASP:N	1.92	0.83
44:AE:93:ILE:HG12	44:AE:117:LEU:CD2	2.09	0.83
44:AI:14:ILE:HD13	44:AI:75:ILE:HD11	1.59	0.83
44:BG:288:VAL:HG11	44:BG:327:ASP:HB3	1.59	0.83
44:BI:326:LYS:HD2	45:BL:220:PRO:HD2	1.61	0.83
44:CA:25:CYS:HB3	44:CA:30:ILE:HB	1.59	0.83
45:DD:240:LEU:HD12	45:DD:249:ASP:HA	1.60	0.83
44:EA:7:ILE:N	44:EA:136:LEU:O	2.12	0.83
44:EE:315:CYS:N	44:EE:350:GLY:O	2.10	0.83
44:EM:11:GLN:HG3	44:EM:74:VAL:HG11	1.58	0.83
45:FD:12:CYS:O	45:FD:16:ILE:HD12	1.79	0.83
45:FJ:289:LEU:HD11	45:FJ:363:MET:HB3	1.60	0.83
44:GA:284:GLU:HG3	44:GA:286:LEU:HD22	1.59	0.83
44:HA:348:PRO:HD2	45:HD:388:MET:HE3	1.61	0.83
44:HG:328:VAL:HG11	44:HG:353:VAL:HG21	1.59	0.83
45:IL:316:LEU:HA	45:IL:352:SER:HB2	1.60	0.83
44:JA:167:LEU:HD22	44:JA:200:VAL:HB	1.59	0.83
44:JA:222:PRO:O	45:JB:322:SER:OG	1.97	0.83
44:JC:56:THR:OG1	44:JC:60:LYS:O	1.94	0.83
44:JE:195:LEU:HD11	44:JE:428:LEU:HD22	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:49:VAL:HG21	45:JJ:241:ARG:HG2	1.60	0.83
44:KG:326:LYS:NZ	45:KJ:220:PRO:O	2.11	0.83
45:LD:268:ILE:HG22	45:LD:368:VAL:HG22	1.59	0.83
44:LG:241:SER:HA	44:LG:356:ASN:ND2	1.93	0.83
44:LI:413:MET:HG2	44:LI:417:GLU:HG3	1.60	0.83
45:MF:25:SER:OG	45:MF:51:TYR:OH	1.96	0.83
45:MJ:169:VAL:HG22	45:MJ:202:ILE:HB	1.60	0.83
44:MM:174:SER:OG	44:MM:206:ASN:OD1	1.94	0.83
44:NG:73:THR:HB	45:NH:247:ASN:HD22	1.41	0.83
44:NM:276:ILE:H	44:NM:368:LEU:HD12	1.40	0.83
44:OI:403:ALA:HA	45:OJ:260:PHE:CE1	2.13	0.83
45:OJ:114:ASP:OD1	45:OJ:115:SER:N	2.12	0.83
44:QA:312:TYR:O	44:QA:344:VAL:N	2.11	0.83
45:QB:230:SER:O	45:QB:234:SER:N	2.08	0.83
45:QB:375:GLN:HE22	45:QB:419:VAL:HA	1.43	0.83
44:QE:101:ASN:OD1	44:QE:186:ASN:ND2	2.11	0.83
44:RA:11:GLN:CG	44:RA:74:VAL:HG11	2.08	0.83
45:RJ:117:LEU:O	45:RJ:121:ARG:N	2.10	0.83
44:RK:254:GLU:HA	44:RK:257:THR:CG2	2.09	0.83
45:SB:34:GLY:HA3	45:SB:58:ARG:HB2	1.60	0.83
45:SH:207:LEU:HD13	45:SH:225:LEU:HB3	1.57	0.83
44:SI:55:GLU:HG3	44:SI:57:GLY:H	1.43	0.83
44:TC:247:ALA:HB3	44:TC:355:ILE:HD12	1.58	0.83
44:TE:311:LYS:HD3	44:TE:342:GLN:HE22	1.44	0.83
44:TE:315:CYS:N	44:TE:350:GLY:O	2.10	0.83
44:TI:241:SER:OG	44:TI:250:VAL:O	1.96	0.83
45:UD:7:ILE:HD11	45:UD:120:VAL:HG11	1.59	0.83
44:UI:387:VAL:HA	44:UI:390:ARG:HG2	1.60	0.83
45:VD:67:ASP:HB3	45:VD:73:MET:HE1	1.59	0.83
44:WE:3:GLU:OE2	44:WE:64:ARG:NH1	2.12	0.83
32:2I:46:TYR:CD2	45:GH:291:GLN:HB3	2.14	0.83
27:2W:236:GLU:OE1	35:6R:5:LEU:HD23	1.79	0.83
32:3I:228:ARG:CD	45:GL:297:LYS:HB3	2.08	0.83
38:5G:111:ASN:HB3	45:NJ:44:LEU:HD13	1.60	0.83
38:5G:198:PHE:H	44:LK:393:HIS:CE1	1.95	0.83
35:7R:277:ASN:O	35:7R:285:THR:OG1	1.95	0.83
45:BN:149:THR:HA	45:BN:152:ILE:HD13	1.58	0.83
45:CD:65:LEU:HD22	45:CD:90:PHE:HE1	1.44	0.83
45:DD:172:SER:HB2	45:DD:205:GLU:OE2	1.77	0.83
45:DH:321:MET:CG	45:DH:323:THR:HG22	2.09	0.83
44:EG:105:ARG:HG3	44:EG:411:GLU:HG3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:141:VAL:HG22	44:EK:187:SER:HA	1.60	0.83
45:EL:271:ALA:HB1	45:EL:272:PRO:HA	1.61	0.83
44:FM:224:TYR:O	44:FM:228:ASN:N	2.11	0.83
44:GG:268:MET:HB3	44:GG:380:ASN:HB2	1.61	0.83
44:GM:188:ILE:HG22	44:GM:421:ALA:HB1	1.59	0.83
44:GM:201:ALA:N	44:GM:266:HIS:O	2.12	0.83
44:HK:65:ALA:O	44:HK:91:GLN:NE2	2.11	0.83
45:IB:3:GLU:CB	45:IB:49:VAL:HA	2.08	0.83
44:IE:204:LEU:HD13	44:IE:231:ILE:HD12	1.60	0.83
44:IG:222:PRO:HG2	45:IH:324:LYS:HD3	1.61	0.83
44:JC:180:ALA:HB3	44:JC:183:GLU:HB3	1.59	0.83
44:JE:88:HIS:HB3	44:JE:91:GLN:HG2	1.60	0.83
45:JL:3:GLU:HB2	45:JL:62:ARG:HH22	1.44	0.83
45:LB:138:SER:CA	45:LB:169:VAL:HB	2.07	0.83
44:LC:237:SER:OG	44:LC:320:ARG:NH1	2.11	0.83
45:MD:274:THR:HG21	45:MD:279:GLN:HA	1.59	0.83
44:MM:36:MET:SD	44:MM:37:PRO:HD2	2.17	0.83
45:ND:318:ARG:NH1	45:ND:354:CYS:SG	2.52	0.83
44:NG:152:LEU:O	44:NG:156:ARG:N	2.09	0.83
44:NM:233:GLN:NE2	44:NM:361:THR:O	2.11	0.83
45:QB:16:ILE:HD12	45:QB:229:VAL:HG11	1.57	0.83
44:QI:384:ILE:O	44:QI:387:VAL:HG12	1.79	0.83
44:RG:326:LYS:HD3	45:RH:212:PHE:CZ	2.12	0.83
44:RK:258:ASN:HD21	45:RL:178:THR:HG23	1.44	0.83
45:SF:258:ILE:HG13	45:SF:266:PHE:HZ	1.43	0.83
45:SJ:10:GLY:O	45:SJ:14:ASN:N	2.11	0.83
44:SM:50:ASN:O	44:SM:64:ARG:NH2	2.12	0.83
45:UF:296:ALA:HB1	45:UF:305:PRO:HD2	1.60	0.83
45:UJ:278:SER:O	45:UJ:281:TYR:N	2.10	0.83
44:VC:73:THR:HB	45:VD:247:ASN:HD22	1.43	0.83
45:VD:97:ALA:HA	45:VD:103:LYS:HG2	1.59	0.83
44:VE:93:ILE:HD13	44:VE:117:LEU:HB3	1.59	0.83
44:VE:209:ILE:HA	44:VE:212:ILE:HG22	1.57	0.83
44:VE:251:ASP:OD1	44:VE:252:ILE:N	2.10	0.83
45:WD:267:MET:O	45:WD:369:GLY:N	2.11	0.83
44:WM:225:THR:O	44:WM:229:ARG:N	2.11	0.83
3:0B:14:MET:SD	45:IH:48:ASN:ND2	2.50	0.83
15:1V:113:ARG:N	44:LI:196:GLU:OE2	2.11	0.83
2:3A:53:HIS:CD2	35:6R:76:ASP:CB	2.61	0.83
11:5Q:39:ASP:OD1	11:5Q:81:LYS:NZ	2.11	0.83
41:6G:230:TYR:OH	44:UE:119:LEU:HB3	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:301:CYS:HB3	45:AD:377:MET:HE1	1.58	0.83
44:AI:407:TRP:CZ3	45:AJ:255:VAL:HA	2.14	0.83
44:BA:203:MET:HB2	44:BA:269:LEU:HA	1.61	0.83
44:BA:223:THR:HG23	44:BA:225:THR:H	1.43	0.83
45:BD:203:ASP:O	45:BD:207:LEU:HG	1.78	0.83
44:CI:328:VAL:HG11	44:CI:353:VAL:HG21	1.60	0.83
45:DJ:184:ASN:HA	45:DJ:187:LEU:HD12	1.61	0.83
45:EB:257:LEU:HD21	45:EB:368:VAL:HG11	1.60	0.83
44:EM:30:ILE:HG23	44:EM:36:MET:CE	2.08	0.83
44:EM:145:THR:HG22	46:EM:501:GTP:O3B	1.79	0.83
44:EM:271:SER:OG	44:EM:302:MET:N	2.12	0.83
44:FE:11:GLN:NE2	45:FF:245:GLN:O	2.10	0.83
44:FG:259:LEU:HD11	44:FG:316:SER:HB3	1.60	0.83
45:FN:169:VAL:HG22	45:FN:202:ILE:HB	1.60	0.83
45:GH:177:ASP:N	45:GH:181:GLU:OE2	2.11	0.83
44:HA:284:GLU:HG3	44:HA:286:LEU:HD22	1.60	0.83
45:HB:309:ARG:O	45:HB:371:SER:OG	1.95	0.83
44:HG:286:LEU:O	44:HG:373:ARG:NH2	2.11	0.83
44:HM:254:GLU:OE2	44:HM:352:LYS:NZ	2.12	0.83
45:ID:109:GLY:O	45:ID:113:ILE:HG23	1.76	0.83
44:II:11:GLN:HG3	44:II:74:VAL:HG11	1.59	0.83
45:IL:325:GLU:HA	45:IL:328:GLU:HG2	1.61	0.83
45:JB:39:ASP:OD1	45:JB:40:SER:N	2.12	0.83
44:JC:288:VAL:HG11	44:JC:327:ASP:HB3	1.61	0.83
45:KJ:285:THR:HG22	45:KJ:288:GLU:HB2	1.60	0.83
45:LJ:135:ILE:HG13	45:LJ:152:ILE:HD11	1.59	0.83
44:MA:211:ASP:OD2	44:MA:304:LYS:NZ	2.10	0.83
44:MC:402:ARG:HB3	44:MC:405:VAL:HG21	1.60	0.83
44:NC:161:TYR:HB3	44:NC:164:LYS:HE2	1.61	0.83
45:OD:87:PRO:HG2	45:PD:278:SER:HB3	1.60	0.83
44:OK:329:ASN:HA	44:OK:332:ILE:HB	1.60	0.83
45:PN:133:PHE:O	45:PN:165:GLU:N	2.10	0.83
45:PN:341:PHE:HB3	45:PN:348:ASN:HD21	1.42	0.83
44:QA:294:SER:O	44:QA:300:ASN:ND2	2.12	0.83
45:QF:86:ARG:NH1	45:RF:281:TYR:HB2	1.94	0.83
44:QG:237:SER:OG	44:QG:320:ARG:NH1	2.11	0.83
45:QJ:74:ASP:HB2	45:QJ:75:SER:HB3	1.60	0.83
44:RE:148:GLY:O	44:RE:151:SER:OG	1.95	0.83
44:SE:298:PRO:HA	44:SE:301:MET:SD	2.19	0.83
44:SE:320:ARG:HG3	44:SE:374:ALA:HB3	1.61	0.83
45:TF:19:LYS:CD	45:TF:226:ASN:HB3	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:68:LEU:HD22	44:UA:153:LEU:HD11	1.61	0.83
45:UB:198:GLU:HG2	45:UB:266:PHE:HE2	1.44	0.83
44:UI:326:LYS:HG2	45:UJ:220:PRO:HD2	1.60	0.83
45:UJ:167:PHE:HA	45:UJ:200:MET:HB3	1.60	0.83
45:VB:138:SER:OG	48:VB:502:GDP:O5'	1.94	0.83
45:VB:295:ASP:HB3	45:VB:298:ASN:HB2	1.60	0.83
44:VK:260:VAL:HB	45:VN:397:TRP:HZ2	1.43	0.83
45:VL:135:ILE:N	45:VL:165:GLU:O	2.12	0.83
9:1H:252:ARG:HE	44:HE:31:GLN:HG3	1.39	0.83
22:1L:153:LEU:HB2	45:CH:362:LYS:HE2	1.58	0.83
25:1P:337:GLN:NE2	44:TC:26:LEU:O	2.12	0.83
44:AC:141:VAL:HG11	44:AC:173:PRO:HD3	1.59	0.83
44:BA:292:THR:HG21	44:BA:331:SER:HB3	1.61	0.83
44:BK:175:PRO:HA	44:BK:390:ARG:HH12	1.43	0.83
45:CF:318:ARG:NH1	45:CF:358:PRO:HG3	1.93	0.83
45:CL:322:SER:OG	44:CM:222:PRO:O	1.96	0.83
45:CN:183:TYR:OH	45:CN:393:ALA:O	1.95	0.83
45:DB:141:GLY:O	45:DB:145:SER:N	2.12	0.83
45:DN:345:ILE:HG12	45:DN:348:ASN:HB3	1.61	0.83
44:EA:241:SER:OG	44:EA:250:VAL:N	2.10	0.83
44:EA:259:LEU:HD13	44:EA:268:MET:HE1	1.58	0.83
45:EF:100:ASN:ND2	45:EF:401:GLU:OE1	2.12	0.83
45:EH:318:ARG:HD3	45:EH:358:PRO:HD3	1.61	0.83
44:FC:242:LEU:HD11	44:FC:252:ILE:HG12	1.59	0.83
45:FF:73:MET:HA	45:FF:76:VAL:HG12	1.59	0.83
44:FG:311:LYS:N	44:FG:382:THR:OG1	2.11	0.83
44:FG:407:TRP:CZ3	45:FH:255:VAL:HA	2.13	0.83
44:FI:221:ARG:HH22	45:FJ:324:LYS:H	1.25	0.83
44:GC:70:LEU:HD12	44:GC:145:THR:HG22	1.60	0.83
45:HJ:268:ILE:HG22	45:HJ:368:VAL:HG12	1.60	0.83
45:HL:284:LEU:HB3	45:HL:362:LYS:HE3	1.59	0.83
45:ID:178:THR:HB	45:ID:181:GLU:HG3	1.60	0.83
44:LM:226:ASN:HA	44:LM:229:ARG:HH21	1.43	0.83
44:ME:51:THR:HG21	44:ME:243:ARG:HD3	1.60	0.83
45:NL:214:THR:HG23	45:NL:215:LEU:HD12	1.60	0.83
45:OB:113:ILE:HG12	45:OB:117:LEU:CD2	2.08	0.83
44:OG:224:TYR:HA	44:OG:227:LEU:HD13	1.61	0.83
45:OH:101:TRP:HZ3	45:OH:187:LEU:HB3	1.41	0.83
45:ON:177:ASP:N	45:ON:181:GLU:OE2	2.10	0.83
45:PB:99:ASN:O	45:PB:100:ASN:ND2	2.12	0.83
45:PD:169:VAL:HG22	45:PD:202:ILE:HB	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:311:LYS:NZ	44:PG:438:GLU:OE2	2.12	0.83
45:PH:290:THR:OG1	45:PH:329:GLN:NE2	2.12	0.83
44:QC:188:ILE:HD11	44:QC:391:LEU:HB3	1.60	0.83
44:QE:276:ILE:HD11	44:QE:280:LYS:HD2	1.58	0.83
45:QJ:168:SER:O	45:QJ:202:ILE:N	2.10	0.83
44:RC:274:PRO:CD	44:RC:374:ALA:HA	2.07	0.83
44:RK:268:MET:HE1	44:RK:378:ILE:HG22	1.60	0.83
44:SA:14:ILE:CD1	44:SA:75:ILE:HD11	2.09	0.83
45:SB:289:LEU:HD23	45:SB:292:GLN:HE21	1.43	0.83
45:SD:178:THR:HB	45:SD:181:GLU:HG3	1.59	0.83
44:SK:316:SER:N	44:SK:378:ILE:O	2.10	0.83
45:TB:121:ARG:NH1	45:TB:121:ARG:HA	1.93	0.83
45:TH:106:TYR:OH	45:TH:407:GLU:OE1	1.96	0.83
45:TL:54:ALA:HA	45:UL:283:ALA:HB2	1.61	0.83
44:UG:28:HIS:NE2	44:UG:243:ARG:HD2	1.93	0.83
45:VJ:380:ARG:O	45:VJ:384:GLN:N	2.12	0.83
44:WI:195:LEU:HD21	44:WI:264:ARG:HE	1.43	0.83
15:0V:24:ARG:NH2	44:MM:430:LYS:HG3	1.93	0.83
16:1X:42:LYS:HG2	44:LE:58:ALA:HB1	1.58	0.83
32:3I:243:LYS:CD	44:GI:299:ALA:HB1	2.08	0.83
37:5C:158:ASN:ND2	44:KK:386:GLU:OE2	2.12	0.83
41:6G:123:LEU:HG	45:VJ:174:LYS:HE3	1.60	0.83
45:AJ:272:PRO:HB3	45:AJ:289:LEU:HD21	1.61	0.83
45:BN:24:ILE:HA	45:BN:27:GLU:HG2	1.61	0.83
45:CF:246:LEU:HD23	44:CG:11:GLN:OE1	1.79	0.83
44:DI:254:GLU:HG2	45:DJ:98:GLY:HA2	1.60	0.83
45:DJ:141:GLY:HA3	48:DJ:501:GDP:O3A	1.79	0.83
44:DM:344:VAL:HG12	44:DM:347:CYS:HB2	1.61	0.83
44:FM:88:HIS:HB3	44:FM:91:GLN:HG2	1.59	0.83
45:FN:318:ARG:HH11	45:FN:358:PRO:HG3	1.44	0.83
44:GE:284:GLU:HG3	44:GE:286:LEU:HD22	1.60	0.83
45:HH:177:ASP:N	45:HH:181:GLU:OE2	2.11	0.83
44:IC:372:MET:SD	44:IC:373:ARG:HG3	2.19	0.83
46:IG:501:GTP:H8	45:IH:246:LEU:HD21	1.41	0.83
45:IH:68:LEU:CD1	45:IH:147:MET:HE3	2.07	0.83
44:IK:288:VAL:HA	44:IK:291:ILE:HG12	1.61	0.83
44:IM:325:PRO:HG3	44:IM:355:ILE:HD13	1.59	0.83
44:JE:36:MET:SD	44:JE:37:PRO:HD2	2.19	0.83
45:JH:36:TYR:CZ	45:JH:44:LEU:HD21	2.12	0.83
44:KI:64:ARG:NH1	44:KI:129:CYS:SG	2.52	0.83
44:KI:392:ASP:OD1	44:KI:422:ARG:NH1	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:216:ASN:HB3	44:KM:275:ILE:O	1.77	0.83
45:LB:25:SER:HB3	45:LB:30:ILE:HB	1.60	0.83
45:LH:97:ALA:HB3	45:LH:143:THR:HB	1.59	0.83
44:MI:88:HIS:HB3	44:MI:91:GLN:HG2	1.61	0.83
44:MI:221:ARG:NE	45:MJ:322:SER:OG	2.12	0.83
44:MI:422:ARG:HH12	44:MI:426:ALA:HB2	1.43	0.83
44:MM:316:SER:O	44:MM:378:ILE:N	2.12	0.83
44:NE:288:VAL:O	44:NE:291:ILE:HG12	1.78	0.83
44:NK:77:GLU:HA	44:NK:80:THR:HG22	1.60	0.83
44:OA:192:HIS:ND1	44:OA:424:ASP:OD2	2.11	0.83
45:OB:229:VAL:O	45:OB:233:MET:N	2.12	0.83
44:OC:12:GLY:O	44:OC:16:VAL:N	2.11	0.83
44:OI:34:GLY:HA3	44:OI:60:LYS:HG3	1.59	0.83
45:QB:97:ALA:HB3	45:QB:143:THR:HB	1.59	0.83
44:QC:315:CYS:N	44:QC:350:GLY:O	2.08	0.83
45:QL:319:GLY:CA	45:QL:357:PRO:HD3	2.09	0.83
44:RC:64:ARG:NH2	44:RC:129:CYS:SG	2.52	0.83
45:RH:322:SER:HB2	44:RI:223:THR:HA	1.59	0.83
44:SC:273:ALA:N	44:SC:375:VAL:O	2.10	0.83
45:SD:217:LEU:HD11	45:SD:220:PRO:HG3	1.61	0.83
44:SI:174:SER:OG	44:SI:206:ASN:OD1	1.97	0.83
45:SL:99:ASN:HA	45:SL:142:GLY:H	1.42	0.83
44:TM:268:MET:HE1	44:TM:380:ASN:HA	1.59	0.83
45:UB:271:ALA:HB3	45:UB:293:MET:SD	2.18	0.83
44:UK:291:ILE:O	44:UK:295:ALA:N	2.11	0.83
45:VB:271:ALA:HB1	45:VB:272:PRO:HA	1.60	0.83
44:VI:181:VAL:HG12	45:VJ:256:ASN:OD1	1.78	0.83
44:WC:64:ARG:NH1	44:WC:129:CYS:SG	2.52	0.83
1:6H:167:LYS:HG3	45:FB:360:GLY:O	1.79	0.83
1:6H:283:LEU:CD1	44:FE:357:TYR:HE2	1.90	0.83
2:2A:36:ARG:NH2	45:MJ:242:PHE:HB3	1.93	0.83
32:3I:287:ARG:HH12	44:FG:41:THR:HG22	1.42	0.83
37:5D:26:LYS:NZ	45:KN:394:PHE:O	2.12	0.83
38:5H:123:ARG:HD2	44:OM:370:LYS:HE2	1.59	0.83
40:6F:136:ARG:HD3	45:IH:42:LEU:HD21	1.60	0.83
44:BC:349:THR:HG1	45:BF:176:SER:HG	1.17	0.83
44:BI:64:ARG:NH1	44:BI:129:CYS:SG	2.52	0.83
44:BM:298:PRO:HA	44:BM:301:MET:HE1	1.58	0.83
45:DH:289:LEU:HD11	45:DH:363:MET:HB3	1.60	0.83
44:DK:183:GLU:O	44:DK:187:SER:OG	1.96	0.83
44:EA:53:PHE:CE1	44:EA:63:PRO:HA	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:378:PHE:O	45:EB:382:ALA:N	2.10	0.83
44:FE:140:SER:OG	46:FE:501:GTP:O2B	1.96	0.83
44:FG:99:ALA:HB3	44:FG:145:THR:HB	1.59	0.83
45:FH:289:LEU:HD11	45:FH:363:MET:HE2	1.60	0.83
44:GA:105:ARG:NH1	45:GB:251:ARG:HD3	1.94	0.83
45:GB:97:ALA:HB3	45:GB:143:THR:HB	1.59	0.83
44:GC:221:ARG:NH1	45:GD:322:SER:OG	2.12	0.83
44:GE:211:ASP:OD1	44:GE:214:ARG:NH2	2.12	0.83
45:GJ:293:MET:CE	45:GJ:367:PHE:HB2	2.09	0.83
44:HC:250:VAL:HG13	44:HC:254:GLU:HB2	1.61	0.83
45:HD:260:PHE:HB2	45:HD:263:LEU:HD13	1.59	0.83
45:HH:257:LEU:HD11	45:HH:314:SER:HB2	1.60	0.83
44:HK:407:TRP:HZ3	45:HL:255:VAL:HA	1.39	0.83
45:JJ:279:GLN:HG3	45:JJ:280:GLN:HG2	1.60	0.83
45:KF:3:GLU:HG3	45:KF:62:ARG:HH12	1.44	0.83
44:KK:64:ARG:NH2	44:KK:129:CYS:SG	2.51	0.83
44:NG:326:LYS:HD3	45:NJ:220:PRO:HD2	1.60	0.83
44:NM:237:SER:HA	44:NM:240:ALA:HB2	1.61	0.83
45:OB:117:LEU:HD11	45:OB:154:LYS:HB2	1.59	0.83
44:OI:236:SER:OG	44:OI:320:ARG:NH1	2.12	0.83
44:PE:51:THR:HG21	44:PE:243:ARG:HD3	1.59	0.83
45:PJ:49:VAL:HG11	45:PJ:241:ARG:HG2	1.61	0.83
45:PJ:99:ASN:OD1	45:PJ:142:GLY:N	2.12	0.83
45:PL:174:LYS:HD3	45:PL:175:VAL:HG13	1.61	0.83
45:PN:173:PRO:HG2	45:PN:380:ARG:HH11	1.43	0.83
44:RA:223:THR:N	44:RA:226:ASN:OD1	2.11	0.83
45:RJ:245:GLN:NE2	45:RJ:355:ASP:OD1	2.11	0.83
45:RL:131:GLN:HE22	45:RL:249:ASP:HB2	1.42	0.83
44:RM:322:ASP:OD1	44:RM:373:ARG:NH1	2.12	0.83
45:TJ:420:SER:O	45:TJ:423:GLN:HG3	1.79	0.83
45:TL:262:ARG:NH1	45:TL:421:GLU:OE1	2.12	0.83
45:TN:117:LEU:HD21	45:TN:121:ARG:HH22	1.42	0.83
45:TN:318:ARG:NE	45:TN:356:ILE:O	2.11	0.83
45:UB:175:VAL:HG22	45:UB:205:GLU:HB2	1.60	0.83
45:UF:3:GLU:O	45:UF:131:GLN:N	2.10	0.83
45:UF:173:PRO:HG2	45:UF:380:ARG:HD3	1.58	0.83
45:UJ:267:MET:CE	45:UJ:374:ILE:HG22	2.09	0.83
45:UN:266:PHE:CD1	45:UN:370:ASN:HB2	2.14	0.83
44:VM:87:PHE:HB3	44:VM:92:LEU:HD11	1.58	0.83
45:WH:325:GLU:HA	45:WH:328:GLU:HG2	1.60	0.83
44:WI:70:LEU:HD11	44:WI:149:LEU:HD21	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:286:LEU:O	44:WI:373:ARG:NH1	2.12	0.83
1:6H:251:ASP:OD2	45:FF:361:LEU:HA	1.77	0.82
3:0B:47:ALA:HB3	45:JH:92:PHE:CZ	2.13	0.82
5:0D:9:TYR:HB3	44:CC:84:ARG:HH12	1.42	0.82
8:0G:55:ALA:HB3	44:JK:31:GLN:HA	1.59	0.82
10:0N:213:PRO:HA	45:KN:31:ASP:HB3	1.59	0.82
12:1S:42:ASN:ND2	44:WC:128:ASN:OD1	2.11	0.82
37:5D:44:SER:CB	45:KN:393:ALA:H	1.92	0.82
44:AK:226:ASN:ND2	44:AK:367:ASP:OD2	2.12	0.82
44:BA:88:HIS:CE1	44:BA:90:GLU:HG2	2.13	0.82
44:BE:324:VAL:HG12	44:BE:325:PRO:CD	2.08	0.82
45:BF:253:LEU:HD21	45:BF:316:LEU:HD21	1.58	0.82
45:BJ:122:LYS:NZ	45:BJ:123:GLU:OE2	2.11	0.82
44:CE:80:THR:O	44:CE:84:ARG:NH2	2.10	0.82
45:CF:7:ILE:HG22	45:CF:64:ILE:HD11	1.61	0.82
44:DA:232:ALA:O	44:DA:236:SER:N	2.11	0.82
45:DJ:290:THR:HG21	45:DJ:329:GLN:HE21	1.44	0.82
45:EB:314:SER:N	45:EB:368:VAL:O	2.11	0.82
44:EE:321:GLY:O	44:EE:357:TYR:HA	1.77	0.82
45:EF:52:ASN:OD1	45:EF:62:ARG:NH2	2.12	0.82
44:FA:150:GLY:O	44:FA:154:LEU:N	2.12	0.82
45:FB:256:ASN:HD22	45:FB:350:LYS:HD2	1.42	0.82
44:FC:96:LYS:HB3	45:FD:1:MET:HE1	1.60	0.82
44:GE:68:LEU:HD21	44:GE:118:CYS:HB2	1.61	0.82
45:GF:73:MET:HA	45:GF:76:VAL:HG12	1.60	0.82
45:HB:100:ASN:ND2	45:HB:401:GLU:OE1	2.11	0.82
45:HD:237:THR:HG23	45:HD:241:ARG:HH21	1.43	0.82
45:IN:325:GLU:HA	45:IN:328:GLU:HG2	1.61	0.82
45:JF:158:GLU:HG3	45:JF:159:TYR:CD1	2.14	0.82
44:JG:212:ILE:HD11	44:JG:300:ASN:HA	1.61	0.82
45:JJ:200:MET:HG2	45:JJ:266:PHE:HB2	1.59	0.82
44:KM:280:LYS:NZ	44:KM:284:GLU:OE1	2.10	0.82
44:KM:404:PHE:CE1	45:KN:259:PRO:HA	2.14	0.82
45:KN:60:VAL:HG11	45:KN:86:ARG:CG	2.08	0.82
45:LB:114:ASP:OD1	45:LB:115:SER:N	2.11	0.82
44:MC:284:GLU:HG3	44:MC:286:LEU:CD2	2.09	0.82
44:MM:31:GLN:HG3	44:MM:32:PRO:HD2	1.61	0.82
44:NG:68:LEU:HD21	44:NG:118:CYS:HB2	1.60	0.82
44:OG:268:MET:HG3	44:OG:380:ASN:HB2	1.61	0.82
44:PA:316:SER:O	44:PA:378:ILE:N	2.11	0.82
45:PH:177:ASP:N	45:PH:181:GLU:OE2	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:14:ILE:O	44:QE:18:ASN:ND2	2.12	0.82
44:QG:12:GLY:O	44:QG:16:VAL:N	2.09	0.82
45:QL:19:LYS:HG3	45:QL:23:VAL:HG23	1.61	0.82
44:RK:132:LEU:HD22	44:RK:164:LYS:HD2	1.61	0.82
44:SC:7:ILE:N	44:SC:136:LEU:O	2.12	0.82
45:SD:54:ALA:HA	45:TD:283:ALA:HB2	1.59	0.82
44:SE:70:LEU:CA	44:SE:95:GLY:HA3	2.08	0.82
44:SE:207:GLU:OE1	44:SE:304:LYS:NZ	2.11	0.82
44:TA:352:LYS:HA	45:TB:177:ASP:O	1.78	0.82
45:TF:200:MET:CE	45:TF:268:ILE:HG12	2.09	0.82
45:TJ:245:GLN:O	44:TK:15:GLN:NE2	2.10	0.82
44:UC:109:THR:HG22	44:UC:110:ILE:HG23	1.60	0.82
45:UJ:1:MET:O	45:UJ:2:ARG:HD3	1.79	0.82
45:UJ:267:MET:HE3	45:UJ:374:ILE:HG22	1.61	0.82
45:VB:315:ALA:N	45:VB:350:LYS:O	2.11	0.82
45:VJ:370:ASN:OD1	45:VJ:422:TYR:OH	1.96	0.82
45:VN:313:ALA:HB3	45:VN:349:ILE:HA	1.61	0.82
44:WC:187:SER:O	44:WC:191:THR:HG23	1.78	0.82
45:WD:318:ARG:NH1	45:WD:358:PRO:HG3	1.94	0.82
44:WE:213:CYS:HA	44:WE:217:LEU:HG	1.59	0.82
45:WH:267:MET:HE2	45:WH:299:MET:HB3	1.61	0.82
45:WN:156:ARG:HH22	45:WN:196:ALA:HA	1.40	0.82
12:OS:103:LYS:HD2	45:MB:261:PRO:HB3	1.61	0.82
31:2H:212:ARG:HG3	44:AC:364:PRO:HB3	1.61	0.82
27:2W:189:ARG:HD3	44:KM:46:ASP:H	1.40	0.82
11:3Q:53:ASN:ND2	44:AG:396:ASP:OD1	2.13	0.82
37:5D:26:LYS:CD	45:KN:398:TYR:HB2	2.08	0.82
37:5D:39:ARG:HA	44:KK:262:TYR:O	1.78	0.82
35:5R:268:GLU:OE1	45:CJ:58:ARG:NH2	2.12	0.82
45:AL:28:HIS:NE2	45:AL:241:ARG:HD2	1.94	0.82
45:AN:267:MET:HE3	45:AN:301:CYS:HB2	1.59	0.82
45:BF:174:LYS:HB2	45:BF:205:GLU:OE2	1.78	0.82
45:CD:330:MET:CE	45:CD:349:ILE:HG21	2.09	0.82
45:CH:370:ASN:OD1	45:CH:422:TYR:OH	1.94	0.82
44:DE:308:ARG:NH1	44:DE:340:THR:O	2.12	0.82
45:DH:256:ASN:OD1	44:DI:181:VAL:HG22	1.79	0.82
44:DK:328:VAL:HG11	44:DK:353:VAL:HG21	1.60	0.82
44:EA:32:PRO:HB3	44:EA:83:TYR:HE1	1.44	0.82
44:EA:49:PHE:O	44:EA:53:PHE:N	2.11	0.82
45:EN:4:ILE:HG22	45:EN:131:GLN:HB3	1.61	0.82
44:FA:387:VAL:HA	44:FA:390:ARG:HG2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:420:GLU:HA	44:GA:423:GLU:HG2	1.62	0.82
44:GG:223:THR:HA	45:GH:322:SER:CB	2.08	0.82
44:GG:284:GLU:HG3	44:GG:286:LEU:HD22	1.61	0.82
44:GK:324:VAL:HG11	44:GK:326:LYS:HZ3	1.45	0.82
44:HA:275:ILE:HG23	44:HA:368:LEU:HD11	1.61	0.82
44:HI:69:ASP:OD1	44:HI:70:LEU:N	2.12	0.82
44:IA:288:VAL:HA	44:IA:291:ILE:HG12	1.59	0.82
44:JA:36:MET:HG2	44:JA:37:PRO:HD2	1.61	0.82
44:JA:320:ARG:HD3	44:JA:360:PRO:HG3	1.61	0.82
44:JK:224:TYR:CD1	45:JL:323:THR:HG21	2.14	0.82
45:KB:87:PRO:HD2	45:LB:281:TYR:CE2	2.13	0.82
44:KI:407:TRP:CZ3	45:KJ:255:VAL:HA	2.14	0.82
45:LB:166:THR:OG1	45:LB:199:CYS:SG	2.30	0.82
44:LK:257:THR:O	45:LN:397:TRP:CZ3	2.28	0.82
45:MB:68:LEU:HD13	45:MB:147:MET:HE1	1.60	0.82
45:MB:309:ARG:N	45:MB:372:THR:OG1	2.12	0.82
45:NF:67:ASP:OD2	45:NF:72:THR:OG1	1.96	0.82
44:NK:241:SER:OG	44:NK:250:VAL:O	1.95	0.82
45:OD:27:GLU:OE2	45:OD:241:ARG:NH2	2.12	0.82
44:PC:101:ASN:HA	44:PC:144:GLY:HA3	1.61	0.82
44:PE:242:LEU:HD11	44:PE:252:ILE:HD11	1.60	0.82
44:PG:407:TRP:CZ3	45:PH:255:VAL:HA	2.13	0.82
45:PJ:19:LYS:HE3	45:PJ:227:HIS:HA	1.62	0.82
45:QB:136:THR:HG22	45:QB:167:PHE:HB2	1.61	0.82
44:RM:69:ASP:OD1	44:RM:70:LEU:N	2.11	0.82
45:SD:310:TYR:N	45:SD:340:TYR:O	2.11	0.82
44:SG:185:TYR:HE2	44:SG:404:PHE:HB2	1.44	0.82
45:SH:372:THR:HA	45:SH:422:TYR:HE2	1.44	0.82
44:SI:261:PRO:HG2	44:SI:313:MET:HE2	1.61	0.82
44:TA:261:PRO:HD2	44:TA:265:ILE:HG22	1.59	0.82
45:TH:1:MET:O	45:TH:3:GLU:N	2.12	0.82
45:TL:102:ALA:HB1	45:TL:403:MET:HE2	1.59	0.82
45:TN:4:ILE:O	45:TN:62:ARG:NH2	2.11	0.82
45:UB:357:PRO:HB2	45:UB:362:LYS:HA	1.59	0.82
45:UF:26:ASP:O	45:UF:359:LYS:NZ	2.11	0.82
45:UJ:10:GLY:O	45:UJ:14:ASN:ND2	2.12	0.82
44:VA:32:PRO:O	44:VA:85:GLN:NE2	2.11	0.82
44:VE:286:LEU:O	44:VE:373:ARG:NH1	2.13	0.82
45:VF:133:PHE:O	45:VF:165:GLU:N	2.11	0.82
45:VJ:259:PRO:HG2	45:VJ:311:LEU:HD21	1.60	0.82
15:0V:70:THR:O	45:LN:121:ARG:HD2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:115:LYS:HB3	11:5Q:116:PRO:HD2	1.60	0.82
35:6R:13:PRO:HA	45:LN:227:HIS:CD2	2.14	0.82
43:8R:248:UNK:O	43:8R:252:UNK:N	2.12	0.82
44:BA:215:ARG:NH2	44:BA:299:ALA:O	2.10	0.82
45:BF:167:PHE:CE2	45:BF:233:MET:HG2	2.14	0.82
44:DA:212:ILE:HD12	44:DA:300:ASN:HA	1.61	0.82
45:DD:54:ALA:HA	45:ED:283:ALA:HB2	1.61	0.82
44:DK:89:PRO:HB3	44:EK:280:LYS:HE2	1.60	0.82
45:DL:83:GLN:O	45:DL:86:ARG:NH2	2.12	0.82
44:FG:241:SER:OG	44:FG:250:VAL:O	1.96	0.82
45:GD:135:ILE:N	45:GD:165:GLU:O	2.12	0.82
44:HC:257:THR:HA	45:HF:397:TRP:CH2	2.14	0.82
44:HK:289:ALA:HA	44:HK:292:THR:HG22	1.59	0.82
44:HM:21:TRP:HZ3	44:HM:52:PHE:HB3	1.43	0.82
44:IM:329:ASN:O	44:IM:333:ALA:N	2.12	0.82
44:JA:141:VAL:CG1	44:JA:187:SER:HA	2.09	0.82
44:JA:171:ILE:HD13	44:JA:204:LEU:HB2	1.61	0.82
44:JA:331:SER:O	44:JA:334:THR:OG1	1.95	0.82
45:JF:31:ASP:OD1	45:JF:34:GLY:N	2.11	0.82
44:JM:328:VAL:HG11	44:JM:353:VAL:HG11	1.59	0.82
45:JN:234:SER:OG	45:JN:241:ARG:NH2	2.12	0.82
44:KK:141:VAL:HG11	44:KK:172:TYR:HA	1.61	0.82
45:LD:52:ASN:OD1	45:LD:62:ARG:NH2	2.12	0.82
45:MB:311:LEU:O	45:MB:348:ASN:ND2	2.12	0.82
45:MD:99:ASN:HA	45:MD:142:GLY:HA3	1.60	0.82
45:MF:167:PHE:CE2	45:MF:233:MET:HG2	2.14	0.82
44:MK:288:VAL:HG11	44:MK:327:ASP:HB3	1.58	0.82
44:NI:55:GLU:O	44:OI:285:GLN:NE2	2.11	0.82
44:OC:100:ALA:HA	45:OD:252:LYS:HG2	1.60	0.82
44:OG:100:ALA:HA	45:OH:252:LYS:HG2	1.59	0.82
45:PL:135:ILE:HB	45:PL:166:THR:HG22	1.61	0.82
44:PM:233:GLN:NE2	44:PM:361:THR:O	2.12	0.82
45:PN:2:ARG:H	45:PN:129:CYS:HB3	1.41	0.82
45:QD:331:LEU:HD22	44:QE:177:VAL:HG22	1.59	0.82
44:QM:121:ARG:HH21	44:QM:124:LYS:HE2	1.44	0.82
44:RC:307:PRO:HB2	44:RC:312:TYR:HE1	1.44	0.82
45:RF:371:SER:O	45:RF:422:TYR:OH	1.96	0.82
44:RI:135:PHE:HB2	44:RI:166:LYS:HG2	1.60	0.82
45:SH:183:TYR:OH	45:SH:393:ALA:O	1.95	0.82
45:SL:6:HIS:NE2	45:SL:8:GLN:OE1	2.13	0.82
44:TA:248:LEU:HB3	44:TA:355:ILE:H	1.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:347:ASN:OD1	44:TC:394:LYS:NZ	2.11	0.82
44:TE:297:GLU:OE2	44:TE:300:ASN:ND2	2.12	0.82
45:TF:131:GLN:O	45:TF:163:ILE:N	2.10	0.82
44:TG:274:PRO:HG2	44:TG:371:VAL:HG21	1.59	0.82
44:TK:115:VAL:HG21	44:TK:152:LEU:CD2	2.09	0.82
45:UB:372:THR:HA	45:UB:422:TYR:HE2	1.42	0.82
44:UK:329:ASN:O	44:UK:333:ALA:N	2.13	0.82
45:UL:235:GLY:O	45:UL:318:ARG:NH2	2.13	0.82
44:UM:387:VAL:HA	44:UM:390:ARG:HG2	1.60	0.82
44:VI:258:ASN:OD1	45:VL:179:VAL:HG22	1.78	0.82
45:WB:32:PRO:O	45:WB:83:GLN:NE2	2.12	0.82
45:WL:113:ILE:HA	45:WL:116:VAL:HG12	1.59	0.82
14:2U:194:ARG:NH1	45:WJ:78:ALA:O	2.12	0.82
35:5R:470:PHE:CD2	35:5R:471:LEU:HG	2.14	0.82
35:6R:231:TYR:OH	45:CN:216:LYS:CA	2.26	0.82
42:8N:110:UNK:O	42:8N:114:UNK:N	2.13	0.82
45:AH:8:GLN:OE1	45:AH:17:GLY:HA3	1.80	0.82
44:CC:31:GLN:OE1	44:CC:33:ASP:N	2.12	0.82
44:DI:15:GLN:O	44:DI:19:ALA:N	2.13	0.82
45:DJ:67:ASP:OD1	45:DJ:68:LEU:N	2.12	0.82
45:EB:275:SER:O	45:EB:279:GLN:N	2.12	0.82
44:EC:205:ASP:OD2	44:EC:304:LYS:N	2.10	0.82
45:EH:63:ALA:O	45:EH:89:ASN:ND2	2.12	0.82
45:EH:378:PHE:O	45:EH:382:ALA:N	2.11	0.82
44:EK:76:ASP:OD1	44:EK:79:ARG:NH2	2.12	0.82
44:EM:431:ASP:O	44:EM:435:VAL:N	2.09	0.82
45:EN:200:MET:HE1	45:EN:268:ILE:HG12	1.61	0.82
45:FF:262:ARG:NH1	45:FF:421:GLU:OE1	2.13	0.82
45:FH:361:LEU:HA	45:FH:362:LYS:N	1.94	0.82
44:FI:434:GLU:O	44:FI:437:ILE:HG12	1.78	0.82
45:FN:11:GLN:O	45:FN:15:GLN:N	2.12	0.82
45:GL:101:TRP:CZ3	45:GL:187:LEU:HB3	2.14	0.82
45:GN:99:ASN:HA	45:GN:142:GLY:H	1.42	0.82
45:HB:91:VAL:HG11	45:HB:116:VAL:HG12	1.62	0.82
44:HC:356:ASN:OD1	44:HC:357:TYR:N	2.12	0.82
45:HH:210:ILE:HD13	45:HH:300:MET:CE	2.09	0.82
45:HH:372:THR:HA	45:HH:422:TYR:HE2	1.41	0.82
44:IA:88:HIS:CE1	44:IA:90:GLU:HG2	2.14	0.82
45:IF:172:SER:HB2	45:IF:174:LYS:NZ	1.93	0.82
44:IM:9:VAL:HG21	44:IM:149:LEU:HB2	1.61	0.82
45:JD:296:ALA:HA	45:JD:299:MET:HE1	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:271:SER:OG	44:JG:301:MET:SD	2.37	0.82
44:JI:268:MET:HB3	44:JI:380:ASN:HB2	1.61	0.82
45:JN:19:LYS:HE3	45:JN:227:HIS:HD1	1.44	0.82
44:KA:222:PRO:O	45:KB:322:SER:OG	1.96	0.82
44:KE:188:ILE:HD11	44:KE:391:LEU:HG	1.62	0.82
44:LA:31:GLN:HG2	44:LA:32:PRO:HD2	1.61	0.82
45:LN:312:THR:O	45:LN:370:ASN:N	2.12	0.82
44:MA:36:MET:SD	44:MA:37:PRO:HD2	2.19	0.82
45:MB:42:LEU:HA	45:MB:43:GLN:HG2	1.59	0.82
44:ME:188:ILE:HD12	44:ME:395:PHE:HB2	1.61	0.82
45:ML:99:ASN:HA	45:ML:142:GLY:HA3	1.59	0.82
45:MN:60:VAL:HG23	45:MN:86:ARG:HD2	1.60	0.82
44:NA:326:LYS:HD3	45:ND:219:THR:HA	1.60	0.82
44:NG:402:ARG:HH12	44:NG:406:HIS:HB3	1.44	0.82
44:OA:328:VAL:HG11	44:OA:353:VAL:HG21	1.60	0.82
45:OH:309:ARG:NH1	45:OH:426:GLN:O	2.11	0.82
45:OL:335:ASN:HA	45:OL:338:SER:HB3	1.60	0.82
44:PA:145:THR:HG22	46:PA:501:GTP:PG	2.20	0.82
45:PD:101:TRP:HB3	45:PD:398:TYR:HE1	1.43	0.82
44:PE:180:ALA:HA	45:PF:256:ASN:HD21	1.45	0.82
45:PH:206:ALA:O	45:PH:210:ILE:N	2.12	0.82
44:QE:119:LEU:HD21	44:QE:156:ARG:HD2	1.59	0.82
45:QN:234:SER:O	45:QN:238:CYS:N	2.12	0.82
44:RC:68:LEU:HD22	44:RC:153:LEU:HD11	1.60	0.82
45:RF:5:VAL:HG12	45:RF:62:ARG:NH1	1.94	0.82
45:RJ:413:SER:O	45:RJ:417:ASP:N	2.12	0.82
44:RM:88:HIS:CE1	44:RM:90:GLU:HG2	2.13	0.82
45:SB:278:SER:HA	45:SB:281:TYR:CD2	2.12	0.82
45:SD:237:THR:OG1	45:SD:240:LEU:HB3	1.79	0.82
45:SF:289:LEU:HD13	45:SF:365:VAL:HG21	1.61	0.82
44:TA:306:ASP:OD1	44:TA:307:PRO:HD2	1.78	0.82
44:TC:135:PHE:HB2	44:TC:166:LYS:HG2	1.60	0.82
44:TC:271:SER:OG	44:TC:301:MET:SD	2.37	0.82
45:TF:347:ASN:ND2	44:TG:176:GLN:O	2.12	0.82
45:TF:383:GLU:O	45:TF:387:ALA:N	2.12	0.82
44:TG:166:LYS:N	44:TG:199:ASP:OD2	2.13	0.82
45:TN:206:ALA:O	45:TN:210:ILE:N	2.09	0.82
44:UM:5:ILE:HG12	44:UM:64:ARG:HB3	1.61	0.82
45:UN:69:GLU:H	45:UN:73:MET:HE1	1.44	0.82
45:VD:2:ARG:NH2	45:VD:240:LEU:O	2.13	0.82
44:VG:311:LYS:HD2	44:VG:342:GLN:HG3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:328:VAL:HG11	44:VG:353:VAL:HG21	1.60	0.82
44:VM:407:TRP:CZ3	45:VN:255:VAL:HA	2.13	0.82
45:WB:31:ASP:OD2	45:WB:37:HIS:ND1	2.11	0.82
44:WI:69:ASP:OD1	44:WI:70:LEU:N	2.13	0.82
32:2I:96:TRP:HZ2	45:GF:290:THR:HG23	1.40	0.82
21:2K:433:LEU:HD13	44:GE:282:TYR:HE2	1.43	0.82
22:3L:42:LYS:NZ	45:BB:42:LEU:HD13	1.93	0.82
11:5Q:141:ARG:NH2	11:5Q:147:ASN:OD1	2.13	0.82
35:5R:182:ASP:OD1	35:5R:183:CYS:N	2.12	0.82
44:AC:132:LEU:HD23	44:AC:164:LYS:NZ	1.95	0.82
44:BC:145:THR:N	46:BC:501:GTP:O2G	2.12	0.82
45:BD:211:CYS:HB3	45:BD:217:LEU:HD11	1.60	0.82
45:BF:109:GLY:HA2	45:BF:147:MET:HE3	1.62	0.82
45:BH:342:VAL:HG13	45:BH:345:ILE:HG22	1.61	0.82
44:CC:99:ALA:HB3	44:CC:145:THR:HG22	1.60	0.82
45:CD:1:MET:O	45:CD:2:ARG:HG2	1.79	0.82
44:CE:205:ASP:OD1	44:CE:303:ALA:HA	1.77	0.82
45:DB:87:PRO:HA	45:DB:90:PHE:CD2	2.14	0.82
44:DI:262:TYR:HB3	44:DI:263:PRO:HD2	1.60	0.82
44:DK:295:ALA:HB1	44:DK:377:MET:CE	2.08	0.82
45:EF:213:ARG:HD3	45:EF:297:LYS:HE2	1.62	0.82
45:EF:375:GLN:HG2	45:EF:376:GLU:H	1.43	0.82
45:EJ:318:ARG:HH11	45:EJ:358:PRO:HG3	1.44	0.82
44:EK:316:SER:HA	44:EK:352:LYS:HB3	1.59	0.82
45:EN:21:TRP:CH2	45:EN:50:TYR:HB3	2.14	0.82
45:FD:208:TYR:CE1	45:FD:225:LEU:HD11	2.13	0.82
45:FL:183:TYR:OH	45:FL:393:ALA:O	1.97	0.82
44:FM:141:VAL:CG1	44:FM:172:TYR:HA	2.08	0.82
44:GA:91:GLN:HG3	44:GA:92:LEU:HD12	1.62	0.82
44:GC:320:ARG:HH12	44:GC:360:PRO:HA	1.43	0.82
45:GF:49:VAL:HG21	45:GF:241:ARG:HG2	1.62	0.82
44:GK:287:SER:N	44:GK:290:GLU:OE2	2.10	0.82
45:GL:203:ASP:OD2	45:GL:302:ALA:N	2.12	0.82
45:HD:295:ASP:OD2	45:HD:297:LYS:NZ	2.13	0.82
45:HL:173:PRO:HG3	45:HL:380:ARG:HD3	1.59	0.82
45:IN:19:LYS:HG2	45:IN:227:HIS:HA	1.60	0.82
45:JL:267:MET:O	45:JL:369:GLY:N	2.12	0.82
45:KB:269:GLY:N	45:KB:367:PHE:O	2.12	0.82
44:KE:195:LEU:HD21	44:KE:264:ARG:HH21	1.44	0.82
45:LD:309:ARG:NH1	45:LD:426:GLN:O	2.12	0.82
44:LM:105:ARG:HA	44:LM:109:THR:CG2	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:173:PRO:HG2	45:LN:380:ARG:HD2	1.59	0.82
45:MH:210:ILE:O	45:MH:214:THR:HG22	1.79	0.82
44:NA:298:PRO:HA	44:NA:301:MET:HE1	1.59	0.82
45:NL:323:THR:HG22	45:NL:353:ILE:HG13	1.61	0.82
44:NM:98:ASP:OD1	44:NM:99:ALA:N	2.12	0.82
45:OB:135:ILE:HG13	45:OB:152:ILE:HD11	1.61	0.82
45:OD:133:PHE:O	45:OD:165:GLU:N	2.11	0.82
45:OH:386:THR:OG1	45:OH:390:ARG:NH2	2.12	0.82
45:OJ:377:MET:SD	45:OJ:380:ARG:NH1	2.52	0.82
44:OM:81:GLY:O	44:OM:84:ARG:HG3	1.78	0.82
44:PE:27:GLU:OE1	44:PE:236:SER:OG	1.97	0.82
45:PJ:73:MET:HA	45:PJ:76:VAL:HG12	1.60	0.82
45:QD:132:GLY:HA3	45:QD:163:ILE:CG1	2.08	0.82
44:QI:420:GLU:HA	44:QI:423:GLU:HG2	1.62	0.82
45:QN:405:GLU:O	45:QN:409:THR:N	2.12	0.82
45:RJ:11:GLN:HA	45:RJ:14:ASN:HD22	1.44	0.82
45:RL:231:ALA:O	45:RL:234:SER:OG	1.98	0.82
44:RM:55:GLU:OE1	44:RM:57:GLY:N	2.11	0.82
44:SA:258:ASN:HD22	44:SA:352:LYS:HB2	1.42	0.82
45:SF:139:LEU:HD22	45:SF:170:VAL:HG12	1.61	0.82
45:SH:49:VAL:HG21	45:SH:240:LEU:HD22	1.59	0.82
45:SJ:215:LEU:HD11	45:SJ:228:LEU:HD11	1.60	0.82
44:SM:101:ASN:HA	44:SM:144:GLY:HA3	1.61	0.82
44:SM:321:GLY:O	44:SM:357:TYR:HA	1.80	0.82
45:TB:213:ARG:HH21	45:TB:214:THR:HG22	1.43	0.82
44:TE:271:SER:HA	44:TE:302:MET:HB2	1.59	0.82
45:TH:315:ALA:N	45:TH:350:LYS:O	2.11	0.82
45:TN:282:ARG:NH2	45:TN:292:GLN:OE1	2.13	0.82
45:UB:25:SER:HB2	45:UB:81:PHE:HE2	1.43	0.82
44:VE:63:PRO:HG2	44:VE:86:LEU:HG	1.61	0.82
45:VH:67:ASP:OD1	45:VH:68:LEU:N	2.12	0.82
45:VL:178:THR:HG22	45:VL:180:VAL:H	1.45	0.82
45:WD:274:THR:CG2	45:WD:282:ARG:HH21	1.92	0.82
45:WD:423:GLN:O	45:WD:426:GLN:HG3	1.78	0.82
44:WM:407:TRP:CH2	45:WN:258:ILE:HB	2.15	0.82
25:1P:276:THR:HB	44:TE:282:TYR:HE2	1.44	0.82
35:4R:304:LEU:HA	45:CF:78:ALA:O	1.79	0.82
42:8N:89:UNK:O	42:8N:93:UNK:N	2.12	0.82
44:AA:60:LYS:NZ	44:AA:85:GLN:O	2.13	0.82
45:AH:113:ILE:HD13	45:AH:150:LEU:HD22	1.61	0.82
44:AM:72:PRO:HB2	45:AN:46:ARG:HH22	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:175:PRO:HA	44:BK:390:ARG:NH1	1.94	0.82
44:CA:36:MET:HG2	44:CA:61:HIS:HE1	1.43	0.82
44:DA:315:CYS:O	44:DA:352:LYS:N	2.12	0.82
45:DB:97:ALA:HB3	45:DB:143:THR:HB	1.60	0.82
44:DC:188:ILE:HD11	44:DC:391:LEU:HB3	1.61	0.82
45:DH:314:SER:HB2	45:DH:350:LYS:HB3	1.59	0.82
44:DI:36:MET:SD	44:DI:38:SER:N	2.51	0.82
44:EE:270:SER:OG	44:EE:302:MET:SD	2.38	0.82
44:EK:275:ILE:HG23	44:EK:368:LEU:HD11	1.61	0.82
45:EN:204:ASN:HA	45:EN:207:LEU:HD12	1.62	0.82
44:FI:89:PRO:HD3	44:GI:283:HIS:HD2	1.43	0.82
44:FK:225:THR:HB	44:FK:229:ARG:NH1	1.95	0.82
45:FL:416:ASN:O	45:FL:420:SER:N	2.11	0.82
45:FN:249:ASP:OD1	45:FN:251:ARG:N	2.13	0.82
44:GA:270:SER:HB3	44:GA:378:ILE:CD1	2.09	0.82
44:GA:284:GLU:HG3	44:GA:286:LEU:CD2	2.09	0.82
45:GB:7:ILE:HB	45:GB:135:ILE:CD1	2.09	0.82
44:GE:407:TRP:CZ3	45:GF:255:VAL:HA	2.14	0.82
45:GF:100:ASN:ND2	45:GF:401:GLU:OE1	2.12	0.82
44:GM:149:LEU:O	44:GM:153:LEU:N	2.13	0.82
44:GM:271:SER:OG	44:GM:377:MET:SD	2.36	0.82
44:GM:320:ARG:HB3	44:GM:356:ASN:HB3	1.61	0.82
45:HB:64:ILE:HG13	45:HB:89:ASN:ND2	1.94	0.82
44:HC:215:ARG:HH12	44:HC:299:ALA:HB1	1.41	0.82
45:HF:20:PHE:HA	45:HF:23:VAL:HG12	1.61	0.82
45:HN:213:ARG:HE	45:HN:297:LYS:HD2	1.45	0.82
45:IN:301:CYS:HB3	45:IN:377:MET:CE	2.09	0.82
44:JA:243:ARG:HG3	44:JA:244:PHE:HD2	1.44	0.82
44:JM:32:PRO:HB3	44:JM:83:TYR:CE1	2.15	0.82
45:JN:31:ASP:OD2	45:JN:37:HIS:ND1	2.13	0.82
44:KA:268:MET:SD	44:KA:378:ILE:HG12	2.19	0.82
45:KL:101:TRP:HZ3	45:KL:187:LEU:HB3	1.45	0.82
45:KL:131:GLN:HE22	45:KL:250:LEU:HB2	1.44	0.82
45:KN:285:THR:N	45:KN:288:GLU:OE2	2.12	0.82
45:LB:131:GLN:HA	45:LB:162:ARG:HH11	1.45	0.82
45:LB:180:VAL:HG22	45:LB:183:TYR:HB2	1.59	0.82
44:MC:407:TRP:CZ3	45:MD:255:VAL:HA	2.15	0.82
45:MH:287:PRO:HD3	45:MH:325:GLU:OE2	1.79	0.82
44:MI:68:LEU:HD21	44:MI:118:CYS:HB2	1.62	0.82
44:NI:1:MET:SD	45:NL:94:GLN:NE2	2.53	0.82
45:NL:236:VAL:HG13	45:NL:237:THR:HG23	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:229:VAL:HG12	45:OB:233:MET:HG3	1.60	0.82
44:OC:326:LYS:NZ	45:OF:220:PRO:HG2	1.95	0.82
44:OG:295:ALA:HB1	44:OG:377:MET:HE3	1.62	0.82
44:QA:19:ALA:O	44:QA:229:ARG:NH2	2.13	0.82
44:QG:132:LEU:HD22	44:QG:164:LYS:HE3	1.61	0.82
45:QJ:168:SER:N	45:QJ:200:MET:O	2.12	0.82
44:QK:53:PHE:HB3	44:QK:61:HIS:HB3	1.61	0.82
44:QK:271:SER:O	44:QK:377:MET:N	2.11	0.82
45:RB:21:TRP:HH2	45:RB:50:TYR:HB3	1.44	0.82
45:RB:100:ASN:ND2	45:RB:401:GLU:OE1	2.13	0.82
45:RB:191:GLN:NE2	45:RB:195:ASN:OD1	2.11	0.82
44:RC:26:LEU:HG	44:RC:361:THR:HG21	1.61	0.82
44:RI:32:PRO:HD2	44:RI:33:ASP:H	1.44	0.82
45:SB:323:THR:O	45:SB:327:ASP:N	2.11	0.82
45:SD:285:THR:O	45:SD:288:GLU:N	2.13	0.82
45:TD:86:ARG:NH1	45:UD:280:GLN:O	2.11	0.82
45:TN:87:PRO:HA	45:TN:90:PHE:HD2	1.42	0.82
45:UB:131:GLN:HE22	45:UB:251:ARG:HH11	1.25	0.82
44:UE:90:GLU:HG3	44:UE:121:ARG:HH12	1.45	0.82
44:UE:239:THR:OG1	44:UE:243:ARG:NH2	2.11	0.82
45:UF:252:LYS:HG3	44:UG:101:ASN:ND2	1.94	0.82
45:UH:113:ILE:HA	45:UH:116:VAL:HG12	1.60	0.82
45:UH:222:TYR:O	45:UH:226:ASN:ND2	2.12	0.82
45:UL:323:THR:O	45:UL:327:ASP:N	2.09	0.82
44:UM:191:THR:HA	44:UM:194:LEU:HG	1.62	0.82
45:UN:322:SER:OG	45:UN:325:GLU:OE1	1.98	0.82
45:WH:139:LEU:HA	45:WH:145:SER:HB3	1.58	0.82
44:WI:407:TRP:CH2	45:WJ:255:VAL:HA	2.15	0.82
45:WJ:262:ARG:NH1	45:WJ:421:GLU:OE1	2.13	0.82
44:WM:424:ASP:O	44:WM:428:LEU:N	2.11	0.82
27:1W:106:PHE:HB3	45:LF:362:LYS:HE3	1.58	0.82
31:3H:186:CYS:HB3	45:AH:279:GLN:HE22	1.43	0.82
31:3H:193:LEU:HD22	45:AH:320:ARG:NH1	1.93	0.82
38:5F:27:ARG:NH1	44:OC:225:THR:OG1	2.11	0.82
35:5R:568:ASP:O	35:5R:571:VAL:HG22	1.77	0.82
35:7R:492:ILE:N	35:7R:583:GLN:OE1	2.13	0.82
45:AN:322:SER:O	45:AN:325:GLU:HG3	1.79	0.82
44:BM:131:GLY:O	44:BM:133:GLN:NE2	2.13	0.82
44:CC:210:TYR:HE1	44:CC:227:LEU:HD11	1.43	0.82
45:EB:381:VAL:HG13	45:EB:384:GLN:HE21	1.43	0.82
45:EB:395:LEU:HD12	45:EB:398:TYR:HB2	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:288:VAL:HG21	44:EI:327:ASP:HB3	1.62	0.82
44:EK:288:VAL:HA	44:EK:291:ILE:HG12	1.61	0.82
45:EL:378:PHE:HB3	45:EL:415:MET:HE2	1.61	0.82
44:EM:405:VAL:O	44:EM:409:VAL:N	2.13	0.82
45:FH:86:ARG:HB3	45:FH:89:ASN:ND2	1.93	0.82
44:FI:71:GLU:OE1	44:FI:73:THR:N	2.12	0.82
44:FM:223:THR:HA	45:FN:323:THR:OG1	1.79	0.82
45:FN:73:MET:O	45:FN:76:VAL:HG12	1.78	0.82
45:GF:312:THR:HG22	45:GF:370:ASN:HB3	1.61	0.82
45:GN:166:THR:OG1	45:GN:198:GLU:O	1.97	0.82
45:HD:201:VAL:HG11	45:HD:377:MET:SD	2.18	0.82
44:IC:221:ARG:HH21	45:ID:321:MET:HG3	1.43	0.82
45:JJ:7:ILE:HB	45:JJ:135:ILE:HD12	1.60	0.82
44:KC:205:ASP:OD1	44:KC:303:ALA:HA	1.79	0.82
45:KJ:259:PRO:HG2	45:KJ:311:LEU:HD13	1.61	0.82
45:KN:139:LEU:HD13	45:KN:168:SER:HB3	1.60	0.82
45:LB:272:PRO:O	45:LB:273:LEU:HD23	1.78	0.82
44:LC:269:LEU:HG	44:LC:301:MET:HE1	1.62	0.82
45:LD:217:LEU:HD11	45:LD:220:PRO:HG3	1.60	0.82
44:LM:184:PRO:HG3	44:LM:394:LYS:HZ1	1.45	0.82
44:MG:407:TRP:CZ3	45:MH:255:VAL:HA	2.13	0.82
45:MJ:114:ASP:OD1	45:MJ:115:SER:N	2.13	0.82
45:ND:218:THR:HG23	45:ND:219:THR:HG23	1.62	0.82
44:NE:250:VAL:HG21	44:NE:352:LYS:HE2	1.62	0.82
45:NF:260:PHE:HB3	45:NF:261:PRO:HD2	1.59	0.82
44:OG:60:LYS:NZ	44:OG:85:GLN:O	2.13	0.82
45:ON:83:GLN:O	45:PN:281:TYR:OH	1.97	0.82
45:PF:206:ALA:O	45:PF:210:ILE:N	2.13	0.82
44:PG:222:PRO:CG	45:PH:324:LYS:HD3	2.10	0.82
45:QD:71:GLY:O	45:QD:75:SER:N	2.09	0.82
44:QM:350:GLY:HA2	45:QN:179:VAL:HG12	1.60	0.82
44:RA:311:LYS:HD2	44:RA:342:GLN:HG3	1.60	0.82
45:RH:183:TYR:HE2	45:RH:394:PHE:HB2	1.45	0.82
44:SE:188:ILE:HG23	44:SE:425:LEU:CD1	2.10	0.82
45:SF:208:TYR:HE1	45:SF:225:LEU:HD11	1.45	0.82
44:TA:188:ILE:HD12	44:TA:425:LEU:HD11	1.60	0.82
44:TG:203:MET:N	44:TG:268:MET:O	2.13	0.82
44:TI:370:LYS:NZ	44:TI:372:MET:SD	2.53	0.82
44:TM:145:THR:HG22	46:TM:501:GTP:PG	2.18	0.82
45:UF:70:PRO:HG3	45:UF:94:GLN:HA	1.61	0.82
44:UM:271:SER:O	44:UM:377:MET:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UM:288:VAL:HA	44:UM:373:ARG:NH1	1.95	0.82
45:VD:331:LEU:HA	45:VD:334:GLN:NE2	1.94	0.82
45:VN:62:ARG:NH1	45:VN:123:GLU:OE1	2.11	0.82
45:WL:387:ALA:O	45:WL:390:ARG:HG2	1.80	0.82
45:WN:204:ASN:HD22	45:WN:207:LEU:HD12	1.45	0.82
45:WN:237:THR:HG23	45:WN:241:ARG:HH21	1.44	0.82
42:8L:115:UNK:O	42:8L:119:UNK:N	2.12	0.82
44:CA:315:CYS:O	44:CA:352:LYS:N	2.11	0.82
45:CD:286:VAL:HG11	45:CD:325:GLU:HG2	1.61	0.82
44:CG:89:PRO:CG	44:DG:280:LYS:HG2	2.09	0.82
45:CJ:95:THR:HG21	45:CJ:108:GLU:HG2	1.59	0.82
45:CL:325:GLU:HA	45:CL:328:GLU:HG2	1.60	0.82
44:DE:172:TYR:HB3	44:DE:173:PRO:HD2	1.61	0.82
44:DE:284:GLU:HG3	44:DE:286:LEU:HD22	1.61	0.82
44:EE:123:ARG:HH22	44:EE:124:LYS:HE2	1.45	0.82
45:EN:398:TYR:HB3	45:EN:403:MET:CE	2.09	0.82
44:FE:326:LYS:HD2	45:FH:220:PRO:HD2	1.61	0.82
44:GI:269:LEU:HD12	44:GI:303:ALA:HB3	1.60	0.82
45:GJ:22:GLU:HG2	45:GJ:81:PHE:HD2	1.41	0.82
44:HA:316:SER:HA	44:HA:352:LYS:HG3	1.62	0.82
45:HD:215:LEU:HD11	45:HD:228:LEU:HD21	1.61	0.82
44:HK:145:THR:HG22	46:HK:501:GTP:O3B	1.79	0.82
45:LB:113:ILE:HD13	45:LB:150:LEU:HD22	1.61	0.82
44:LC:268:MET:CE	44:LC:378:ILE:HG22	2.10	0.82
45:LD:267:MET:HB3	45:LD:299:MET:CE	2.08	0.82
45:LJ:198:GLU:OE2	45:LJ:254:ALA:HB2	1.78	0.82
45:MF:16:ILE:HD11	45:MF:229:VAL:HG11	1.61	0.82
44:MI:195:LEU:HD11	44:MI:428:LEU:HD13	1.60	0.82
44:NC:271:SER:OG	44:NC:301:MET:HA	1.78	0.82
45:NL:211:CYS:HA	45:NL:215:LEU:HB2	1.61	0.82
44:OE:402:ARG:HB3	44:OE:405:VAL:HG21	1.61	0.82
44:OK:265:ILE:HD12	44:OK:432:TYR:HE1	1.43	0.82
45:PD:262:ARG:HD2	45:PD:262:ARG:O	1.78	0.82
44:PI:269:LEU:HB2	44:PI:303:ALA:HB3	1.60	0.82
44:QC:67:PHE:HB2	44:QC:92:LEU:HA	1.61	0.82
44:RE:102:ASN:OD1	44:RE:105:ARG:N	2.13	0.82
45:RJ:2:ARG:HH12	45:RJ:46:ARG:HH12	1.23	0.82
45:RJ:325:GLU:O	45:RJ:329:GLN:N	2.10	0.82
45:RL:138:SER:CB	45:RL:169:VAL:HB	2.10	0.82
45:RL:255:VAL:HA	44:RM:407:TRP:HZ3	1.45	0.82
44:SA:425:LEU:O	44:SA:429:GLU:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TC:3:GLU:O	44:TC:133:GLN:N	2.13	0.82
44:TC:101:ASN:HA	44:TC:144:GLY:HA3	1.60	0.82
45:TF:139:LEU:HD22	45:TF:170:VAL:HG12	1.60	0.82
45:TH:260:PHE:HB3	45:TH:261:PRO:HD2	1.62	0.82
45:TN:60:VAL:HG21	45:TN:86:ARG:NE	1.94	0.82
44:UC:202:VAL:HG23	44:UC:269:LEU:HA	1.61	0.82
45:UH:67:ASP:OD1	45:UH:68:LEU:N	2.13	0.82
44:UK:2:ARG:HA	44:UK:133:GLN:HE22	1.43	0.82
44:UK:76:ASP:O	44:UK:80:THR:HG23	1.80	0.82
45:UL:23:VAL:O	45:UL:27:GLU:N	2.13	0.82
44:UM:317:MET:HB3	44:UM:377:MET:HE1	1.61	0.82
44:VA:60:LYS:NZ	44:VA:85:GLN:O	2.13	0.82
45:VB:287:PRO:HA	45:VB:290:THR:HG22	1.60	0.82
44:VI:311:LYS:HE2	44:VI:342:GLN:NE2	1.95	0.82
44:VK:186:ASN:HA	44:VK:189:LEU:HB2	1.60	0.82
44:WG:246:GLY:HA2	44:WG:357:TYR:CE2	2.14	0.82
45:WH:318:ARG:NH1	45:WH:358:PRO:HG3	1.95	0.82
38:5F:142:TYR:CE2	45:OH:276:ARG:HG3	2.14	0.82
11:5Q:61:ALA:HB3	11:5Q:62:PRO:HD3	1.62	0.82
40:6F:92:LYS:HA	44:JE:82:THR:HG21	1.61	0.82
42:8L:108:UNK:O	42:8L:112:UNK:N	2.11	0.82
45:AN:309:ARG:NH2	45:AN:426:GLN:O	2.13	0.82
44:BA:327:ASP:HA	44:BA:330:ALA:HB3	1.62	0.82
44:BC:64:ARG:NH2	44:BC:129:CYS:SG	2.52	0.82
45:BD:103:LYS:HA	45:BD:107:THR:HG22	1.62	0.82
45:BH:139:LEU:HD13	45:BH:168:SER:HB3	1.59	0.82
45:CN:3:GLU:HA	45:CN:49:VAL:HG13	1.60	0.82
44:DC:21:TRP:O	44:DC:25:CYS:N	2.11	0.82
44:EK:241:SER:OG	44:EK:250:VAL:O	1.96	0.82
44:EK:258:ASN:HD22	45:EL:179:VAL:HG22	1.44	0.82
44:EK:315:CYS:N	44:EK:350:GLY:O	2.10	0.82
45:EL:52:ASN:OD1	45:EL:62:ARG:NE	2.12	0.82
44:FC:221:ARG:NH1	45:FD:322:SER:O	2.13	0.82
44:FE:210:TYR:HE1	44:FE:227:LEU:HD11	1.43	0.82
44:FI:242:LEU:HD11	44:FI:252:ILE:HG13	1.59	0.82
44:FI:404:PHE:HE2	45:FJ:259:PRO:HA	1.44	0.82
44:GA:229:ARG:O	44:GA:233:GLN:N	2.13	0.82
45:GB:207:LEU:HB3	45:GB:225:LEU:HD22	1.60	0.82
45:GF:113:ILE:HD13	45:GF:150:LEU:CD2	2.09	0.82
45:GF:178:THR:O	45:GF:181:GLU:HG3	1.80	0.82
45:GN:139:LEU:HA	45:GN:145:SER:HB3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:192:LEU:HG	45:ID:196:ALA:HB2	1.61	0.82
45:IH:86:ARG:NH1	44:JE:283:HIS:HB2	1.94	0.82
45:IJ:68:LEU:HD21	45:IJ:108:GLU:HG2	1.62	0.82
44:JK:286:LEU:O	44:JK:373:ARG:NH2	2.13	0.82
44:JM:169:PHE:HA	44:JM:202:VAL:CG2	2.10	0.82
45:KB:85:PHE:O	45:LB:281:TYR:OH	1.98	0.82
44:KE:215:ARG:NH1	44:KE:300:ASN:OD1	2.13	0.82
44:LI:69:ASP:OD1	44:LI:70:LEU:N	2.13	0.82
45:LL:5:VAL:HG12	45:LL:62:ARG:HG2	1.61	0.82
45:NH:73:MET:CE	45:NH:92:PHE:HB3	2.10	0.82
45:NH:330:MET:SD	45:NH:351:SER:OG	2.37	0.82
45:NJ:267:MET:HG2	45:NJ:299:MET:HE2	1.60	0.82
45:NL:172:SER:HB2	45:NL:205:GLU:OE2	1.78	0.82
44:OA:202:VAL:HA	44:OA:268:MET:O	1.79	0.82
44:OC:319:TYR:HD2	44:OC:323:VAL:HG21	1.45	0.82
45:OD:186:THR:O	45:OD:189:VAL:HG12	1.80	0.82
44:OK:201:ALA:O	44:OK:268:MET:N	2.10	0.82
44:PC:224:TYR:HE2	45:PD:246:LEU:HD11	1.45	0.82
45:PD:139:LEU:HD22	45:PD:170:VAL:HG12	1.61	0.82
44:PE:404:PHE:CD1	45:PF:259:PRO:HA	2.13	0.82
45:PF:313:ALA:HB3	45:PF:349:ILE:HA	1.59	0.82
45:PJ:260:PHE:HB3	45:PJ:261:PRO:HD2	1.62	0.82
44:QA:145:THR:N	46:QA:501:GTP:O2G	2.13	0.82
44:QC:70:LEU:HD12	44:QC:145:THR:HB	1.62	0.82
45:QJ:417:ASP:O	45:QJ:421:GLU:N	2.13	0.82
45:QL:323:THR:O	45:QL:327:ASP:N	2.10	0.82
45:QL:414:ASN:O	45:QL:418:LEU:N	2.11	0.82
44:RE:11:GLN:HG3	44:RE:74:VAL:HG11	1.60	0.82
44:RK:89:PRO:HG3	44:SK:280:LYS:HG3	1.61	0.82
44:RM:334:THR:HG22	44:RM:338:LYS:NZ	1.94	0.82
45:RN:65:LEU:HD22	45:RN:90:PHE:HE1	1.44	0.82
44:SG:54:SER:HB3	44:SG:64:ARG:CZ	2.10	0.82
45:SL:116:VAL:HA	45:SL:119:VAL:HG12	1.62	0.82
44:TE:434:GLU:O	44:TE:437:ILE:HG12	1.80	0.82
44:TK:322:ASP:OD1	44:TK:373:ARG:NH1	2.13	0.82
45:VB:234:SER:O	45:VB:241:ARG:NH2	2.11	0.82
45:VB:423:GLN:NE2	45:VB:424:GLN:OE1	2.12	0.82
45:VH:107:THR:HG21	45:VH:401:GLU:HB3	1.59	0.82
44:VM:311:LYS:HD2	44:VM:342:GLN:HG3	1.61	0.82
44:WI:257:THR:HA	45:WL:397:TRP:CH2	2.14	0.82
5:OD:173:GLY:O	44:EC:79:ARG:NH1	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2A:36:ARG:HH21	45:MJ:243:PRO:HD2	1.43	0.82
35:4R:245:LEU:HD23	44:BE:58:ALA:HB3	1.60	0.82
11:6Q:71:ILE:HG22	11:6Q:73:LEU:H	1.45	0.82
35:6R:31:PHE:HE1	45:LN:90:PHE:HD1	1.25	0.82
35:6R:288:LYS:NZ	44:CM:45:GLY:H	1.74	0.82
35:6R:417:TYR:OH	44:EM:372:MET:CE	2.28	0.82
35:7R:301:PRO:HG3	45:CB:74:ASP:CB	2.10	0.82
35:7R:336:CYS:SG	35:7R:368:GLN:NE2	2.52	0.82
45:AD:18:ALA:HB2	45:AD:76:VAL:HG23	1.61	0.82
44:BA:205:ASP:OD2	44:BA:304:LYS:N	2.11	0.82
44:BA:222:PRO:CG	45:BB:324:LYS:HD3	2.10	0.82
44:BE:55:GLU:HG3	44:BE:57:GLY:H	1.43	0.82
44:BK:284:GLU:HG3	44:BK:286:LEU:HD22	1.62	0.82
45:BL:318:ARG:NH1	45:BL:358:PRO:HD3	1.94	0.82
44:BM:11:GLN:NE2	45:BN:245:GLN:O	2.12	0.82
45:CJ:142:GLY:O	45:CJ:146:GLY:N	2.12	0.82
44:DG:80:THR:HA	44:DG:84:ARG:HE	1.43	0.82
44:DG:248:LEU:HB3	44:DG:355:ILE:HG12	1.60	0.82
44:EC:5:ILE:HG13	44:EC:64:ARG:HB3	1.61	0.82
44:EK:90:GLU:HG2	44:FI:280:LYS:HZ1	1.44	0.82
45:EL:260:PHE:HB3	45:EL:261:PRO:HD2	1.60	0.82
45:FB:60:VAL:HG23	45:FB:84:LEU:O	1.80	0.82
45:FD:236:VAL:HG13	45:FD:237:THR:HG23	1.61	0.82
45:FF:207:LEU:HD21	45:FF:300:MET:HE2	1.60	0.82
45:FL:100:ASN:ND2	45:FL:401:GLU:OE1	2.11	0.82
44:HG:101:ASN:ND2	45:HH:252:LYS:HG3	1.95	0.82
44:IC:353:VAL:HG22	44:IC:355:ILE:HD11	1.62	0.82
45:ID:11:GLN:HG3	45:ID:72:THR:HG21	1.61	0.82
44:IM:141:VAL:HG22	44:IM:187:SER:HA	1.61	0.82
44:JA:209:ILE:HG12	44:JA:302:MET:CE	2.09	0.82
45:JB:296:ALA:HA	45:JB:299:MET:CE	2.09	0.82
45:JH:3:GLU:HB2	45:JH:62:ARG:HH12	1.45	0.82
45:JJ:189:VAL:HG13	45:JJ:415:MET:HE3	1.61	0.82
45:KD:109:GLY:HA3	45:KD:147:MET:HE1	1.61	0.82
45:LH:392:LYS:HD2	45:LH:395:LEU:HD23	1.60	0.82
44:MC:407:TRP:CH2	45:MD:258:ILE:HB	2.15	0.82
44:MI:315:CYS:SG	44:MI:379:SER:OG	2.37	0.82
45:MN:178:THR:N	45:MN:181:GLU:OE2	2.12	0.82
45:NB:303:ALA:HB2	45:NB:377:MET:HE1	1.61	0.82
44:NC:236:SER:OG	44:NC:320:ARG:NH2	2.11	0.82
44:OC:71:GLU:OE2	45:OD:2:ARG:NH2	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:109:GLY:O	45:OD:113:ILE:N	2.13	0.82
45:OL:362:LYS:HD3	45:OL:363:MET:SD	2.20	0.82
44:PA:286:LEU:N	44:PA:290:GLU:OE2	2.13	0.82
45:PD:5:VAL:HA	45:PD:130:LEU:HD21	1.61	0.82
45:PJ:133:PHE:O	45:PJ:165:GLU:N	2.12	0.82
44:QI:280:LYS:HD3	44:QI:283:HIS:CB	2.09	0.82
45:RJ:210:ILE:HD11	45:RJ:300:MET:HA	1.61	0.82
45:SN:267:MET:HG3	45:SN:299:MET:HE3	1.61	0.82
45:TH:260:PHE:HB2	45:TH:263:LEU:CD1	2.08	0.82
45:TJ:41:ASP:O	45:TJ:45:GLU:HG3	1.80	0.82
45:UD:274:THR:HG23	45:UD:279:GLN:HB2	1.62	0.82
45:UL:135:ILE:N	45:UL:165:GLU:O	2.13	0.82
45:UN:34:GLY:HA3	45:UN:58:ARG:HE	1.44	0.82
44:VG:133:GLN:HB3	44:VG:252:ILE:HD12	1.61	0.82
44:VI:141:VAL:HG22	44:VI:187:SER:HA	1.61	0.82
44:WC:105:ARG:HD2	45:WD:251:ARG:HH21	1.43	0.82
2:1A:36:ARG:CD	45:MF:42:LEU:HD21	2.10	0.81
13:1T:149:ASN:ND2	45:MF:407:GLU:OE2	2.10	0.81
34:4F:160:THR:HA	45:IN:320:ARG:HH21	1.43	0.81
38:5G:59:THR:OG1	45:OJ:276:ARG:NH1	2.09	0.81
45:AD:133:PHE:HB2	45:AD:164:MET:SD	2.19	0.81
45:AD:229:VAL:HG12	45:AD:233:MET:CE	2.09	0.81
44:AI:404:PHE:CE2	45:AJ:259:PRO:HA	2.15	0.81
44:AM:71:GLU:OE1	44:AM:73:THR:HG22	1.79	0.81
45:BF:173:PRO:CG	45:BF:380:ARG:HD3	2.09	0.81
44:BI:88:HIS:CD2	44:CI:283:HIS:HB2	2.15	0.81
44:BK:311:LYS:HD2	44:BK:342:GLN:HG3	1.61	0.81
45:CF:405:GLU:HA	45:CF:408:PHE:HD2	1.45	0.81
44:CG:89:PRO:CB	44:DG:280:LYS:HG2	2.09	0.81
44:CG:205:ASP:OD1	44:CG:303:ALA:HA	1.80	0.81
44:DA:191:THR:HA	44:DA:194:LEU:HG	1.61	0.81
45:DB:323:THR:HG22	45:DB:353:ILE:HG12	1.60	0.81
45:DJ:173:PRO:HG2	45:DJ:380:ARG:HD3	1.61	0.81
44:DM:295:ALA:HB2	44:DM:375:VAL:CG1	2.10	0.81
44:DM:301:MET:HE3	44:DM:307:PRO:HG3	1.61	0.81
44:EK:3:GLU:OE2	44:EK:130:THR:N	2.11	0.81
45:FB:287:PRO:O	45:FB:290:THR:HG22	1.78	0.81
44:FE:206:ASN:OD1	44:FE:207:GLU:N	2.13	0.81
45:FH:135:ILE:HG13	45:FH:152:ILE:HD11	1.62	0.81
44:FK:201:ALA:HB3	44:FK:267:PHE:HA	1.61	0.81
45:FN:318:ARG:HD3	45:FN:358:PRO:HD3	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:105:HIS:ND1	45:GD:105:HIS:O	2.13	0.81
45:GL:207:LEU:HA	45:GL:300:MET:HE1	1.61	0.81
45:GN:316:LEU:N	45:GN:366:THR:O	2.13	0.81
44:HC:215:ARG:NH2	44:HC:299:ALA:O	2.13	0.81
44:HE:407:TRP:CZ3	45:HF:255:VAL:HA	2.15	0.81
44:HG:108:TYR:HA	44:HG:112:LYS:HE3	1.61	0.81
44:HM:140:SER:OG	46:HM:501:GTP:O2B	1.98	0.81
44:IA:136:LEU:HD23	44:IA:167:LEU:HB2	1.60	0.81
45:IB:414:ASN:O	45:IB:418:LEU:N	2.10	0.81
45:IJ:370:ASN:OD1	45:IJ:422:TYR:OH	1.98	0.81
44:KG:332:ILE:HD11	44:KG:351:PHE:CG	2.16	0.81
44:MA:206:ASN:O	44:MA:209:ILE:HG22	1.80	0.81
44:MG:188:ILE:HG13	44:MG:425:LEU:HD12	1.59	0.81
44:MI:102:ASN:OD1	44:MI:105:ARG:N	2.13	0.81
44:MK:241:SER:HA	44:MK:356:ASN:ND2	1.95	0.81
44:MM:171:ILE:HG12	44:MM:204:LEU:CB	2.10	0.81
44:NA:73:THR:O	44:NA:77:GLU:N	2.13	0.81
45:NB:410:GLU:O	45:NB:413:SER:OG	1.98	0.81
45:NN:269:GLY:HA2	45:NN:300:MET:HE1	1.62	0.81
45:OD:300:MET:HE2	45:OD:300:MET:HA	1.62	0.81
45:OD:322:SER:N	45:OD:325:GLU:OE2	2.12	0.81
44:OG:91:GLN:HE21	44:OG:125:LEU:HD21	1.44	0.81
44:OM:3:GLU:OE2	44:OM:131:GLY:N	2.12	0.81
44:QI:203:MET:HE3	44:QI:203:MET:HA	1.60	0.81
44:RC:203:MET:HG3	44:RC:384:ILE:HD11	1.62	0.81
45:RH:286:VAL:HG22	45:RH:287:PRO:HD3	1.62	0.81
45:SB:14:ASN:ND2	45:SB:73:MET:SD	2.53	0.81
45:SD:58:ARG:NH1	45:TD:280:GLN:O	2.12	0.81
45:SH:7:ILE:HB	45:SH:135:ILE:HG22	1.61	0.81
45:TD:205:GLU:O	45:TD:209:ASP:N	2.12	0.81
44:UA:287:SER:O	44:UA:290:GLU:HG2	1.80	0.81
44:UM:1:MET:HE3	45:UN:70:PRO:HD2	1.60	0.81
44:VK:69:ASP:OD1	44:VK:70:LEU:N	2.13	0.81
45:VN:109:GLY:O	45:VN:113:ILE:N	2.13	0.81
44:WE:271:SER:OG	44:WE:301:MET:SD	2.38	0.81
44:WE:407:TRP:HZ3	45:WF:255:VAL:HA	1.45	0.81
45:WF:25:SER:HA	45:WF:30:ILE:HB	1.61	0.81
45:WF:25:SER:O	45:WF:30:ILE:N	2.13	0.81
45:WN:39:ASP:N	45:WN:43:GLN:OE1	2.13	0.81
2:2A:39:TYR:HE2	44:MI:78:VAL:HA	1.39	0.81
32:3I:217:ASN:ND2	45:FL:128:ASP:O	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3U:430:ARG:HH22	44:WM:365:GLY:H	1.27	0.81
37:5A:71:SER:O	45:NB:359:LYS:NZ	2.13	0.81
37:5D:113:VAL:CG1	44:NM:373:ARG:HG3	2.10	0.81
43:8P:65:UNK:O	43:8P:69:UNK:N	2.13	0.81
45:AF:203:ASP:OD2	45:AF:302:ALA:N	2.13	0.81
45:AH:150:LEU:HD21	45:AH:154:LYS:HE2	1.62	0.81
45:AL:318:ARG:HD2	45:AL:358:PRO:HD3	1.62	0.81
44:CM:174:SER:OG	44:CM:206:ASN:OD1	1.97	0.81
45:DN:97:ALA:HB3	45:DN:143:THR:HB	1.62	0.81
45:DN:183:TYR:OH	45:DN:393:ALA:O	1.98	0.81
45:DN:313:ALA:HA	45:DN:369:GLY:HA2	1.61	0.81
45:DN:412:GLU:O	45:DN:416:ASN:N	2.12	0.81
45:ED:315:ALA:HB3	45:ED:351:SER:HA	1.62	0.81
44:EK:271:SER:OG	44:EK:301:MET:HA	1.80	0.81
44:EM:288:VAL:HA	44:EM:291:ILE:HG12	1.59	0.81
44:EM:295:ALA:HB1	44:EM:377:MET:HE3	1.60	0.81
45:FB:290:THR:HA	45:FB:293:MET:SD	2.20	0.81
44:FE:196:GLU:OE2	44:FE:264:ARG:NH1	2.12	0.81
44:FI:15:GLN:NE2	46:FI:501:GTP:O6	2.13	0.81
45:FL:3:GLU:HB3	45:FL:49:VAL:HA	1.61	0.81
45:GN:232:ALA:HB1	45:GN:268:ILE:HD12	1.62	0.81
44:HA:313:MET:SD	44:HA:380:ASN:HB3	2.19	0.81
44:IE:256:GLN:HG2	45:IH:397:TRP:CH2	2.15	0.81
44:II:6:SER:OG	44:II:64:ARG:O	1.98	0.81
44:II:71:GLU:OE1	44:II:73:THR:OG1	1.98	0.81
45:IN:246:LEU:HD13	45:IN:353:ILE:HD13	1.62	0.81
45:JF:7:ILE:HB	45:JF:135:ILE:HD12	1.60	0.81
45:JF:83:GLN:O	45:KF:281:TYR:OH	1.98	0.81
44:JI:372:MET:HG3	44:JI:373:ARG:CD	2.10	0.81
44:KI:288:VAL:HA	44:KI:291:ILE:HG12	1.60	0.81
45:KJ:87:PRO:HD3	45:LJ:281:TYR:OH	1.80	0.81
45:KN:285:THR:HG23	45:KN:287:PRO:CD	2.10	0.81
45:LJ:11:GLN:HB2	45:LJ:72:THR:HG21	1.62	0.81
44:MA:174:SER:HB3	44:MA:207:GLU:HB2	1.60	0.81
44:NA:287:SER:OG	44:NA:290:GLU:OE1	1.96	0.81
44:OC:257:THR:HA	45:OF:397:TRP:HH2	1.44	0.81
45:OF:285:THR:HG22	45:OF:287:PRO:CD	2.10	0.81
45:ON:200:MET:CE	45:ON:266:PHE:HB2	2.10	0.81
45:PJ:314:SER:CB	45:PJ:350:LYS:HB3	2.09	0.81
44:QA:211:ASP:OD2	44:QA:304:LYS:NZ	2.10	0.81
45:QB:130:LEU:HB3	45:QB:162:ARG:HD2	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:173:PRO:HG2	45:QB:380:ARG:HD3	1.62	0.81
44:QC:31:GLN:HE21	44:QC:35:GLN:HG2	1.44	0.81
44:QG:257:THR:HA	45:QH:397:TRP:NE1	1.95	0.81
44:RA:88:HIS:HB3	44:RA:91:GLN:HB2	1.62	0.81
45:RD:173:PRO:CG	45:RD:380:ARG:HD3	2.09	0.81
44:RG:352:LYS:NZ	45:RH:178:THR:HA	1.95	0.81
44:RI:284:GLU:HG3	44:RI:286:LEU:HD22	1.61	0.81
45:RN:117:LEU:HB2	45:RN:120:VAL:HB	1.61	0.81
45:SD:40:SER:OG	45:SD:43:GLN:NE2	2.13	0.81
44:TA:8:HIS:O	44:TA:68:LEU:N	2.13	0.81
44:TG:147:SER:HB2	44:TG:190:SER:HB3	1.62	0.81
45:TL:231:ALA:O	45:TL:235:GLY:N	2.13	0.81
45:UJ:133:PHE:HB2	45:UJ:164:MET:CE	2.09	0.81
44:UK:35:GLN:OE1	44:UK:35:GLN:N	2.13	0.81
45:UL:139:LEU:HD13	45:UL:168:SER:OG	1.81	0.81
45:VH:372:THR:HA	45:VH:422:TYR:HE2	1.45	0.81
45:WB:370:ASN:OD1	45:WB:422:TYR:OH	1.98	0.81
44:WC:88:HIS:HB3	44:WC:91:GLN:HB2	1.62	0.81
45:WD:97:ALA:HB2	45:WD:143:THR:HB	1.62	0.81
44:WK:14:ILE:HD11	44:WK:69:ASP:HB2	1.60	0.81
45:WN:372:THR:HA	45:WN:422:TYR:HE2	1.45	0.81
2:0A:129:PRO:HD3	45:AB:362:LYS:HE2	1.61	0.81
17:2B:238:TYR:HA	44:JK:84:ARG:CZ	2.10	0.81
26:2R:429:GLU:HA	45:FH:276:ARG:HH22	1.43	0.81
15:2V:161:TYR:CE1	44:MG:429:GLU:HB3	2.15	0.81
27:2W:239:ARG:NH1	35:6R:5:LEU:CD1	2.24	0.81
16:3X:49:ILE:HD11	44:MM:282:TYR:CD2	2.13	0.81
37:5D:35:PHE:HD2	44:KK:434:GLU:HB3	1.43	0.81
37:5D:113:VAL:O	44:NM:373:ARG:N	2.12	0.81
38:5H:29:LYS:HE3	38:5H:30:PRO:HD2	1.62	0.81
36:5S:152:THR:HG21	36:5S:157:ILE:HD12	1.62	0.81
35:6R:296:GLY:HA3	45:DN:276:ARG:HB3	1.61	0.81
43:8P:31:UNK:O	43:8P:35:UNK:N	2.13	0.81
43:8P:36:UNK:O	43:8P:40:UNK:N	2.11	0.81
45:AD:330:MET:HE2	45:AD:349:ILE:HG12	1.63	0.81
44:AK:261:PRO:HG2	44:AK:313:MET:HE3	1.60	0.81
44:AK:407:TRP:CH2	45:AL:258:ILE:HB	2.15	0.81
44:AM:270:SER:HB3	44:AM:378:ILE:HD13	1.62	0.81
45:BF:286:VAL:HG11	45:BF:325:GLU:HG2	1.61	0.81
44:CA:241:SER:OG	44:CA:250:VAL:O	1.98	0.81
45:CH:23:VAL:HG11	45:CH:230:SER:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:67:ASP:HB3	45:CJ:73:MET:HE2	1.63	0.81
45:CJ:325:GLU:OE2	44:CK:221:ARG:NE	2.13	0.81
45:CL:253:LEU:HD21	45:CL:316:LEU:HD21	1.63	0.81
44:CM:360:PRO:HG3	44:CM:374:ALA:HB2	1.62	0.81
45:DB:384:GLN:HB3	45:DB:388:MET:HE1	1.62	0.81
44:DC:88:HIS:HB3	44:DC:91:GLN:HG2	1.62	0.81
44:DG:291:ILE:HD12	44:DG:375:VAL:HB	1.61	0.81
44:DI:288:VAL:HA	44:DI:291:ILE:HG12	1.61	0.81
45:DL:221:THR:HG23	45:DL:224:ASP:H	1.45	0.81
45:DN:203:ASP:HB2	45:DN:301:CYS:HA	1.62	0.81
45:EB:186:THR:HG21	45:EB:385:PHE:CG	2.15	0.81
44:EC:140:SER:HA	44:EC:171:ILE:HB	1.62	0.81
44:EC:149:LEU:O	44:EC:153:LEU:N	2.10	0.81
45:EF:263:LEU:HB3	45:EF:422:TYR:HE1	1.45	0.81
44:EG:75:ILE:HG22	44:EG:79:ARG:NH2	1.93	0.81
45:EH:256:ASN:HD22	44:EI:181:VAL:HG12	1.46	0.81
44:EI:172:TYR:HB3	44:EI:173:PRO:HD2	1.62	0.81
44:FC:55:GLU:HG3	44:FC:57:GLY:H	1.45	0.81
44:FC:311:LYS:HB2	44:FC:382:THR:HG21	1.62	0.81
45:FJ:16:ILE:CD1	45:FJ:229:VAL:HG11	2.10	0.81
44:FK:271:SER:OG	44:FK:301:MET:HA	1.80	0.81
44:FK:325:PRO:HG3	44:FK:355:ILE:HG21	1.62	0.81
45:FN:49:VAL:HG21	45:FN:241:ARG:HG2	1.63	0.81
45:FN:113:ILE:HD11	45:FN:151:LEU:HB2	1.60	0.81
44:GA:326:LYS:HD3	45:GD:208:TYR:CE1	2.14	0.81
44:GE:275:ILE:HD12	44:GE:368:LEU:HD11	1.62	0.81
45:GH:246:LEU:HD21	45:GH:352:SER:HA	1.60	0.81
45:GL:267:MET:HE3	45:GL:301:CYS:SG	2.21	0.81
45:HB:83:GLN:O	45:IB:281:TYR:OH	1.96	0.81
44:HE:71:GLU:OE1	44:HE:73:THR:HG22	1.81	0.81
44:HE:100:ALA:O	45:HF:255:VAL:HG21	1.79	0.81
45:HJ:77:ARG:O	45:HJ:83:GLN:NE2	2.13	0.81
45:HJ:372:THR:HA	45:HJ:422:TYR:HE2	1.43	0.81
45:HL:101:TRP:CZ3	45:HL:187:LEU:HG	2.14	0.81
44:HM:145:THR:HG23	46:HM:501:GTP:O1B	1.81	0.81
44:IE:55:GLU:HG3	44:IE:57:GLY:H	1.44	0.81
44:IE:256:GLN:HG2	45:IH:397:TRP:HH2	1.43	0.81
44:IE:324:VAL:HG13	44:IE:325:PRO:HD2	1.60	0.81
45:IF:390:ARG:HD2	45:IF:391:ARG:HG2	1.62	0.81
44:IG:422:ARG:HH12	44:IG:426:ALA:HB2	1.42	0.81
45:IL:213:ARG:NH2	45:IL:214:THR:HA	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:221:ARG:HH21	45:IN:321:MET:HE2	1.42	0.81
45:JB:410:GLU:OE2	45:NB:340:TYR:OH	1.97	0.81
45:JD:299:MET:CE	45:JD:305:PRO:HG2	2.11	0.81
45:JF:2:ARG:NH1	45:JF:240:LEU:HG	1.95	0.81
45:JF:122:LYS:HE2	45:KF:291:GLN:OE1	1.80	0.81
44:JK:189:LEU:HD11	44:JK:418:PHE:HE1	1.45	0.81
44:JM:49:PHE:HD2	44:JM:53:PHE:HB2	1.44	0.81
45:KH:8:GLN:HE21	45:KH:65:LEU:HD21	1.45	0.81
45:KJ:8:GLN:HE22	45:KJ:17:GLY:HA3	1.45	0.81
44:KM:328:VAL:O	44:KM:332:ILE:N	2.12	0.81
45:LB:372:THR:HA	45:LB:422:TYR:HE2	1.44	0.81
44:LC:64:ARG:NH1	44:LC:129:CYS:SG	2.54	0.81
44:LE:363:VAL:HG13	44:LE:364:PRO:HD2	1.62	0.81
45:LH:130:LEU:HD21	45:LH:133:PHE:HE1	1.44	0.81
45:MF:372:THR:HA	45:MF:422:TYR:HE2	1.45	0.81
45:ML:333:VAL:HA	45:ML:336:LYS:HZ3	1.45	0.81
45:NH:341:PHE:HB3	45:NH:348:ASN:HD21	1.44	0.81
45:NH:386:THR:OG1	45:NH:390:ARG:NH2	2.14	0.81
44:NK:177:VAL:HG12	45:NL:331:LEU:HD22	1.60	0.81
45:NN:260:PHE:HB3	45:NN:261:PRO:CD	2.10	0.81
45:OD:134:GLN:HA	45:OD:165:GLU:O	1.81	0.81
44:PA:241:SER:CB	44:PA:250:VAL:HB	2.09	0.81
44:PC:407:TRP:CZ2	45:PD:258:ILE:HD11	2.16	0.81
45:PJ:318:ARG:HD3	45:PJ:358:PRO:HD3	1.61	0.81
45:PL:2:ARG:HG3	45:PL:240:LEU:HD21	1.61	0.81
45:PN:314:SER:HA	45:PN:350:LYS:HB3	1.59	0.81
45:QB:146:GLY:O	45:QB:149:THR:HG22	1.80	0.81
45:QD:24:ILE:HG23	45:QD:241:ARG:HH22	1.43	0.81
45:QD:113:ILE:HD13	45:QD:154:LYS:HE2	1.61	0.81
45:QD:139:LEU:HD13	45:QD:168:SER:HB3	1.62	0.81
45:QF:135:ILE:HB	45:QF:166:THR:HG22	1.62	0.81
44:QG:205:ASP:OD1	44:QG:303:ALA:HA	1.80	0.81
45:QJ:14:ASN:HB3	45:QJ:73:MET:HB3	1.62	0.81
45:QL:141:GLY:O	45:QL:145:SER:N	2.10	0.81
45:QN:11:GLN:O	45:QN:15:GLN:N	2.10	0.81
44:RC:271:SER:OG	44:RC:301:MET:HA	1.79	0.81
44:RC:273:ALA:N	44:RC:375:VAL:O	2.12	0.81
44:RG:76:ASP:O	44:RG:79:ARG:HG2	1.80	0.81
44:RG:209:ILE:HA	44:RG:212:ILE:HG22	1.63	0.81
44:RG:251:ASP:HB2	44:RG:254:GLU:HG3	1.63	0.81
45:RH:164:MET:HE1	45:RH:195:ASN:O	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:118:CYS:O	44:RI:122:ILE:HG12	1.79	0.81
45:RJ:237:THR:HG23	45:RJ:241:ARG:NH1	1.94	0.81
44:SA:271:SER:OG	44:SA:301:MET:SD	2.38	0.81
45:SB:260:PHE:HB3	45:SB:261:PRO:HD2	1.61	0.81
44:SE:200:VAL:HG22	44:SE:256:GLN:HB3	1.61	0.81
45:SF:173:PRO:HG3	45:SF:380:ARG:HD3	1.62	0.81
44:SG:68:LEU:HD21	44:SG:118:CYS:HB2	1.63	0.81
44:SG:215:ARG:NH2	44:SG:300:ASN:OD1	2.14	0.81
45:SJ:412:GLU:O	45:SJ:415:MET:HG2	1.80	0.81
44:SK:143:GLY:O	44:SK:147:SER:N	2.13	0.81
45:SL:318:ARG:N	45:SL:364:ALA:O	2.12	0.81
45:SL:323:THR:HG23	44:SM:223:THR:HA	1.60	0.81
45:SN:4:ILE:HG22	45:SN:132:GLY:N	1.96	0.81
45:SN:380:ARG:HA	45:SN:383:GLU:HB3	1.62	0.81
44:TC:387:VAL:HA	44:TC:390:ARG:HG2	1.61	0.81
45:TD:319:GLY:N	45:TD:354:CYS:O	2.13	0.81
44:TE:161:TYR:HB3	44:TE:164:LYS:HE2	1.60	0.81
45:TF:16:ILE:HD13	45:TF:19:LYS:HZ3	1.46	0.81
44:TI:9:VAL:HG11	44:TI:153:LEU:HD11	1.62	0.81
44:TK:71:GLU:OE1	44:TK:73:THR:N	2.12	0.81
45:UB:273:LEU:O	45:UB:292:GLN:NE2	2.14	0.81
44:UE:286:LEU:O	44:UE:373:ARG:NH2	2.14	0.81
45:UF:286:VAL:HG11	45:UF:325:GLU:HG2	1.61	0.81
45:UH:377:MET:HA	45:UH:380:ARG:HG2	1.59	0.81
44:UK:311:LYS:HD2	44:UK:342:GLN:HG3	1.59	0.81
44:VA:14:ILE:HD11	44:VA:69:ASP:HB2	1.62	0.81
44:VG:238:LEU:HA	44:VG:318:MET:HE1	1.62	0.81
44:VK:174:SER:HB2	44:VK:177:VAL:HB	1.59	0.81
44:VM:63:PRO:HG2	44:VM:86:LEU:HG	1.62	0.81
44:WA:76:ASP:OD1	44:WA:79:ARG:NH2	2.13	0.81
45:WH:203:ASP:OD2	45:WH:302:ALA:N	2.10	0.81
44:WI:319:TYR:HB2	44:WI:355:ILE:HD13	1.62	0.81
44:WI:404:PHE:CE1	45:WJ:259:PRO:HA	2.15	0.81
45:WJ:285:THR:HG23	45:WJ:287:PRO:HD2	1.60	0.81
44:WM:288:VAL:O	44:WM:291:ILE:HG12	1.80	0.81
1:6H:259:THR:HG1	44:FE:77:GLU:CD	1.79	0.81
1:6H:268:MET:HE3	44:FE:26:LEU:HD11	1.62	0.81
10:1N:179:ILE:HD12	45:KJ:37:HIS:HB2	1.62	0.81
37:5D:38:THR:HA	44:KK:265:ILE:CG1	2.09	0.81
45:AB:313:ALA:HA	45:AB:369:GLY:HA2	1.62	0.81
45:BN:52:ASN:OD1	45:BN:62:ARG:NH2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:178:THR:HG22	45:CH:180:VAL:H	1.46	0.81
45:CJ:19:LYS:O	45:CJ:23:VAL:HG23	1.79	0.81
44:DA:212:ILE:CD1	44:DA:300:ASN:HA	2.10	0.81
44:DG:209:ILE:HG22	44:DG:227:LEU:HD22	1.62	0.81
44:DK:395:PHE:HE2	44:DK:422:ARG:HE	1.26	0.81
44:DM:9:VAL:HG22	44:DM:146:GLY:HA2	1.61	0.81
44:EG:288:VAL:CA	44:EG:291:ILE:HG12	2.10	0.81
44:EK:268:MET:HB2	44:EK:379:SER:O	1.80	0.81
44:FA:195:LEU:O	44:FA:266:HIS:NE2	2.13	0.81
45:FB:202:ILE:HD11	45:FB:268:ILE:HD11	1.63	0.81
45:FH:139:LEU:HD23	45:FH:168:SER:HB3	1.61	0.81
45:FH:317:PHE:HE2	45:FH:326:VAL:HG21	1.46	0.81
45:FJ:114:ASP:OD1	45:FJ:115:SER:N	2.12	0.81
44:GA:254:GLU:HG2	45:GD:98:GLY:HA2	1.61	0.81
45:GD:330:MET:HE3	45:GD:349:ILE:HG21	1.60	0.81
44:GG:372:MET:HG2	44:GG:373:ARG:CD	2.10	0.81
44:GK:112:LYS:O	44:GK:115:VAL:N	2.14	0.81
44:HE:209:ILE:HG22	44:HE:227:LEU:HD22	1.60	0.81
44:HE:306:ASP:HB3	44:HE:309:HIS:CD2	2.16	0.81
45:HH:162:ARG:HE	45:HH:163:ILE:H	1.28	0.81
44:HI:15:GLN:NE2	46:HI:501:GTP:O6	2.13	0.81
44:HM:169:PHE:HB3	44:HM:204:LEU:HD12	1.62	0.81
45:IH:139:LEU:HD13	45:IH:168:SER:HB3	1.61	0.81
45:IN:132:GLY:HA3	45:IN:163:ILE:HG13	1.61	0.81
44:JI:179:THR:HG23	45:JJ:351:SER:HB3	1.62	0.81
45:JJ:8:GLN:HE22	45:JJ:17:GLY:HA3	1.44	0.81
45:JN:66:MET:HE1	45:JN:151:LEU:HD13	1.61	0.81
44:KA:64:ARG:NH2	44:KA:129:CYS:SG	2.54	0.81
44:KA:68:LEU:HD22	44:KA:153:LEU:HD11	1.61	0.81
44:KE:64:ARG:NH2	44:KE:129:CYS:SG	2.53	0.81
45:KH:239:CYS:SG	45:KH:247:ASN:HA	2.20	0.81
44:LE:175:PRO:HG2	44:LE:304:LYS:HG2	1.61	0.81
44:LI:292:THR:HG21	44:LI:331:SER:HB3	1.61	0.81
45:MF:1:MET:O	45:MF:2:ARG:HG2	1.80	0.81
44:MG:226:ASN:ND2	44:MG:367:ASP:OD2	2.13	0.81
45:MH:256:ASN:HD22	45:MH:350:LYS:HD2	1.46	0.81
44:MK:316:SER:HB2	44:MK:352:LYS:HB3	1.62	0.81
44:NC:328:VAL:HG11	44:NC:353:VAL:HG23	1.61	0.81
45:NN:184:ASN:OD1	45:NN:185:ALA:N	2.13	0.81
45:PJ:194:GLU:N	45:PJ:194:GLU:OE1	2.13	0.81
44:PK:6:SER:CB	44:PK:136:LEU:HB2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:110:ALA:O	45:QB:113:ILE:HG22	1.81	0.81
45:QB:318:ARG:HD3	45:QB:358:PRO:HG3	1.61	0.81
45:QH:181:GLU:HA	45:QH:184:ASN:OD1	1.81	0.81
44:QK:278:ALA:HA	44:QK:369:ALA:HB2	1.62	0.81
45:QN:372:THR:HA	45:QN:422:TYR:HE2	1.43	0.81
44:RA:65:ALA:O	44:RA:91:GLN:NE2	2.14	0.81
44:RA:233:GLN:O	44:RA:237:SER:OG	1.98	0.81
44:RA:328:VAL:O	44:RA:332:ILE:HD12	1.79	0.81
45:SB:25:SER:O	45:SB:28:HIS:N	2.13	0.81
44:TA:48:ALA:HB1	44:TA:243:ARG:HB2	1.63	0.81
45:TF:234:SER:O	45:TF:238:CYS:HB3	1.81	0.81
44:TI:1:MET:HE1	45:TJ:94:GLN:HG2	1.59	0.81
45:TL:131:GLN:OE1	45:TL:251:ARG:NH1	2.14	0.81
45:TN:293:MET:O	45:TN:298:ASN:ND2	2.14	0.81
44:UA:428:LEU:HA	44:UA:431:ASP:OD2	1.80	0.81
44:UG:311:LYS:HD2	44:UG:342:GLN:HG3	1.62	0.81
45:UH:207:LEU:HB3	45:UH:225:LEU:HD22	1.62	0.81
45:UH:308:GLY:HA2	45:UH:426:GLN:HE21	1.46	0.81
45:UJ:20:PHE:O	45:UJ:24:ILE:N	2.13	0.81
45:UL:100:ASN:ND2	45:UL:401:GLU:OE1	2.12	0.81
44:WK:69:ASP:OD1	44:WK:70:LEU:N	2.14	0.81
5:0D:187:PHE:CB	45:FB:322:SER:HB3	2.11	0.81
27:2W:270:GLU:OE1	44:LK:278:ALA:C	1.90	0.81
35:4R:80:ARG:HB3	44:ME:35:GLN:NE2	1.94	0.81
38:5G:133:PRO:HB2	38:5G:136:LEU:HD13	1.61	0.81
39:5J:93:ASP:OD2	39:5J:96:SER:OG	1.98	0.81
11:6Q:53:ASN:ND2	44:AM:396:ASP:OD1	2.13	0.81
42:8L:369:UNK:O	42:8L:373:UNK:N	2.12	0.81
43:8P:110:UNK:O	43:8P:114:UNK:N	2.13	0.81
44:AA:225:THR:HA	44:AA:228:ASN:OD1	1.80	0.81
44:AA:283:HIS:ND1	44:MA:89:PRO:HD3	1.94	0.81
44:AE:209:ILE:HD11	44:AE:302:MET:SD	2.20	0.81
44:BE:222:PRO:HG2	45:BF:324:LYS:HD3	1.62	0.81
45:BH:142:GLY:N	48:BH:502:GDP:O2B	2.12	0.81
44:BI:99:ALA:CB	44:BI:145:THR:HB	2.11	0.81
45:BJ:167:PHE:CE1	45:BJ:233:MET:HG2	2.16	0.81
45:CD:87:PRO:HA	45:CD:90:PHE:CD2	2.16	0.81
44:CG:174:SER:OG	44:CG:206:ASN:OD1	1.97	0.81
45:CH:5:VAL:HG12	45:CH:62:ARG:HH12	1.45	0.81
45:CH:342:VAL:HG13	45:CH:345:ILE:HG22	1.63	0.81
45:CJ:396:HIS:HA	45:CJ:399:THR:HG22	1.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:3:GLU:CB	45:CN:49:VAL:HA	2.11	0.81
44:DA:217:LEU:HB3	44:DA:219:ILE:HG13	1.63	0.81
44:DA:256:GLN:O	45:DB:397:TRP:NE1	2.13	0.81
45:DD:31:ASP:HB3	45:DD:32:PRO:HD3	1.60	0.81
44:DM:145:THR:N	46:DM:501:GTP:O2G	2.13	0.81
45:DN:100:ASN:ND2	45:DN:401:GLU:OE1	2.13	0.81
45:ED:318:ARG:HB3	45:ED:358:PRO:HD3	1.61	0.81
44:EE:251:ASP:HB2	44:EE:254:GLU:HG3	1.62	0.81
44:EK:64:ARG:NH1	44:EK:129:CYS:SG	2.54	0.81
45:EN:210:ILE:O	45:EN:214:THR:N	2.13	0.81
44:FA:297:GLU:OE1	44:FA:299:ALA:N	2.13	0.81
44:GA:221:ARG:NH2	45:GB:325:GLU:OE1	2.14	0.81
44:GC:372:MET:HG3	44:GC:373:ARG:HD3	1.63	0.81
45:GD:54:ALA:HB3	45:GD:58:ARG:O	1.81	0.81
44:HA:319:TYR:CD2	44:HA:328:VAL:HG22	2.15	0.81
45:HN:156:ARG:NH1	45:HN:162:ARG:O	2.12	0.81
45:HN:208:TYR:CE1	45:HN:225:LEU:HD11	2.15	0.81
45:HN:325:GLU:HA	45:HN:328:GLU:HG2	1.61	0.81
45:IB:156:ARG:NH2	45:IB:160:PRO:O	2.12	0.81
45:IF:247:ASN:O	45:IF:252:LYS:NZ	2.13	0.81
44:IG:222:PRO:CG	45:IH:324:LYS:HD3	2.10	0.81
44:II:154:LEU:HD12	44:II:194:LEU:HD22	1.63	0.81
44:JE:121:ARG:HA	44:JE:121:ARG:HH11	1.44	0.81
45:JH:66:MET:SD	45:JH:147:MET:HE1	2.20	0.81
45:JN:276:ARG:NH1	45:JN:279:GLN:OE1	2.13	0.81
45:KB:334:GLN:HE22	45:KB:347:ASN:H	1.29	0.81
44:KC:241:SER:OG	44:KC:250:VAL:O	1.97	0.81
45:LL:253:LEU:HD21	45:LL:368:VAL:HG11	1.61	0.81
44:MG:176:GLN:NE2	44:MG:207:GLU:OE2	2.14	0.81
44:MM:423:GLU:O	44:MM:427:ALA:N	2.11	0.81
44:NA:47:ASP:HB3	44:NA:50:ASN:HB2	1.63	0.81
45:ND:86:ARG:HB3	45:ND:89:ASN:OD1	1.79	0.81
45:NH:242:PHE:HD2	45:NH:356:ILE:HD11	1.43	0.81
44:OA:55:GLU:HG3	44:OA:57:GLY:H	1.44	0.81
45:OB:214:THR:HG21	45:OB:273:LEU:HD12	1.60	0.81
45:OD:102:ALA:O	45:OD:106:TYR:HB2	1.81	0.81
44:OE:188:ILE:HG13	44:OE:395:PHE:HB2	1.62	0.81
44:OE:222:PRO:HG2	45:OF:324:LYS:HD3	1.63	0.81
44:OK:385:ALA:HB2	44:OK:432:TYR:HD2	1.46	0.81
44:PC:286:LEU:HD13	44:PC:291:ILE:HD11	1.62	0.81
44:QC:320:ARG:HG3	44:QC:360:PRO:HD3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:164:MET:HB2	45:RD:197:ASP:HB2	1.60	0.81
44:RG:145:THR:N	46:RG:501:GTP:O2G	2.13	0.81
45:RJ:175:VAL:HG22	45:RJ:205:GLU:HB2	1.61	0.81
44:SC:53:PHE:HB3	44:SC:61:HIS:HB3	1.63	0.81
44:SC:316:SER:O	44:SC:378:ILE:N	2.14	0.81
44:SG:257:THR:HA	45:SH:397:TRP:CZ2	2.15	0.81
45:SH:10:GLY:O	45:SH:14:ASN:N	2.13	0.81
44:SK:212:ILE:HG23	44:SK:216:ASN:HD22	1.44	0.81
44:SM:277:SER:OG	44:SM:367:ASP:O	1.99	0.81
44:SM:321:GLY:N	44:SM:356:ASN:O	2.14	0.81
44:SM:422:ARG:HH12	44:SM:426:ALA:HB2	1.43	0.81
45:SN:113:ILE:HD13	45:SN:150:LEU:HD22	1.60	0.81
44:TA:258:ASN:HD21	45:TB:178:THR:HG23	1.45	0.81
44:TG:215:ARG:NH2	44:TG:300:ASN:OD1	2.14	0.81
44:TI:99:ALA:HA	44:TI:105:ARG:HD3	1.62	0.81
45:TJ:67:ASP:HB3	45:TJ:73:MET:CE	2.10	0.81
44:TM:140:SER:OG	46:TM:501:GTP:O2A	1.97	0.81
45:UD:377:MET:SD	45:UD:380:ARG:HD2	2.21	0.81
45:UH:130:LEU:HG	45:UH:162:ARG:HD2	1.62	0.81
45:UL:149:THR:HG23	45:UL:150:LEU:HD12	1.61	0.81
45:VF:295:ASP:OD1	45:VF:297:LYS:N	2.13	0.81
44:VI:280:LYS:HD2	44:VI:283:HIS:HB2	1.63	0.81
45:WB:164:MET:HE3	45:WB:196:ALA:HA	1.63	0.81
26:2R:292:ARG:NH2	45:DH:281:TYR:OH	2.13	0.81
37:5D:56:ILE:HG23	45:KN:388:MET:HG2	1.61	0.81
11:5Q:53:ASN:ND2	44:AK:396:ASP:OD1	2.14	0.81
35:6R:436:GLU:HB2	45:FN:280:GLN:HE21	0.99	0.81
35:7R:455:VAL:HG21	35:7R:471:LEU:HD12	1.62	0.81
45:AH:1:MET:SD	45:AH:2:ARG:NH1	2.53	0.81
45:AL:73:MET:CE	45:AL:92:PHE:HB3	2.10	0.81
44:BG:311:LYS:HG3	44:BG:342:GLN:HG3	1.62	0.81
45:CF:86:ARG:HD2	45:DF:281:TYR:HB3	1.62	0.81
45:CH:148:GLY:O	45:CH:152:ILE:HG12	1.80	0.81
44:DG:98:ASP:OD1	44:DG:99:ALA:N	2.14	0.81
44:DI:212:ILE:HD12	44:DI:300:ASN:HD22	1.44	0.81
44:DK:284:GLU:HG3	44:DK:286:LEU:HD22	1.63	0.81
45:DL:294:PHE:CD2	45:DL:333:VAL:HG11	2.16	0.81
44:EC:145:THR:N	46:EC:501:GTP:O2G	2.14	0.81
44:EI:304:LYS:O	44:EI:304:LYS:HD2	1.79	0.81
44:FA:407:TRP:CZ3	45:FB:255:VAL:HA	2.15	0.81
45:FB:245:GLN:HB2	45:FB:353:ILE:HB	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:264:ARG:HH21	44:FG:428:LEU:HB2	1.46	0.81
44:FK:319:TYR:CE2	44:FK:328:VAL:HG22	2.16	0.81
45:FL:67:ASP:OD1	45:FL:68:LEU:N	2.14	0.81
45:FL:361:LEU:HD23	45:FL:363:MET:H	1.45	0.81
45:GD:330:MET:CE	45:GD:349:ILE:HD13	2.10	0.81
45:GN:15:GLN:HB3	45:GN:19:LYS:NZ	1.96	0.81
44:HA:226:ASN:ND2	44:HA:367:ASP:OD2	2.13	0.81
44:HA:271:SER:HA	44:HA:302:MET:HG2	1.62	0.81
45:HN:372:THR:HA	45:HN:422:TYR:HE2	1.44	0.81
45:IB:230:SER:O	45:IB:234:SER:N	2.12	0.81
45:JJ:317:PHE:HB3	45:JJ:321:MET:HE2	1.62	0.81
44:JM:312:TYR:H	44:JM:343:PHE:HA	1.45	0.81
44:KK:324:VAL:HG12	44:KK:326:LYS:HG3	1.62	0.81
45:LL:20:PHE:CD1	45:LL:233:MET:HE2	2.15	0.81
45:LL:67:ASP:OD2	45:LL:72:THR:OG1	1.98	0.81
45:MF:3:GLU:HG3	45:MF:62:ARG:NH2	1.96	0.81
45:ND:316:LEU:HD23	45:ND:352:SER:HB2	1.60	0.81
44:NE:265:ILE:HD12	44:NE:432:TYR:CE1	2.15	0.81
44:NI:98:ASP:OD1	44:NI:99:ALA:N	2.13	0.81
44:OI:241:SER:OG	44:OI:250:VAL:N	2.14	0.81
44:OI:284:GLU:HG3	44:OI:286:LEU:HG	1.61	0.81
44:PE:115:VAL:HG22	44:PE:119:LEU:HD23	1.63	0.81
45:PF:296:ALA:HA	45:PF:299:MET:HE1	1.63	0.81
44:PI:317:MET:HE2	44:PI:375:VAL:HG21	1.62	0.81
44:PK:315:CYS:HA	44:PK:379:SER:HA	1.63	0.81
45:QF:86:ARG:HH21	45:QF:87:PRO:HG2	1.46	0.81
44:QG:326:LYS:HE2	45:QH:220:PRO:HD2	1.61	0.81
44:QI:269:LEU:HD12	44:QI:301:MET:HG2	1.63	0.81
45:RD:291:GLN:NE2	45:RD:292:GLN:HG3	1.95	0.81
44:RI:65:ALA:HB3	44:RI:91:GLN:HE22	1.45	0.81
45:SD:317:PHE:N	45:SD:352:SER:O	2.14	0.81
44:SM:27:GLU:OE2	44:SM:320:ARG:NH2	2.13	0.81
45:TD:164:MET:HB3	45:TD:197:ASP:H	1.44	0.81
44:TE:387:VAL:HA	44:TE:390:ARG:HG2	1.60	0.81
45:TF:238:CYS:HB2	45:TF:318:ARG:NH2	1.96	0.81
44:TI:288:VAL:HA	44:TI:291:ILE:HG12	1.62	0.81
45:TJ:260:PHE:HB2	45:TJ:263:LEU:HD13	1.63	0.81
45:TN:135:ILE:HG13	45:TN:152:ILE:HD11	1.61	0.81
45:UD:46:ARG:NH2	44:UE:76:ASP:OD2	2.13	0.81
44:UI:439:THR:HG21	45:UJ:390:ARG:HD2	1.61	0.81
44:UK:166:LYS:HB3	44:UK:198:THR:HG23	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:176:GLN:NE2	44:VA:207:GLU:OE2	2.14	0.81
44:VI:204:LEU:HD22	44:VI:231:ILE:HG12	1.62	0.81
45:VJ:262:ARG:NH1	45:VJ:421:GLU:OE1	2.13	0.81
45:WL:272:PRO:O	45:WL:273:LEU:HD23	1.81	0.81
5:1D:55:GLY:N	44:EG:221:ARG:HB3	1.96	0.81
35:4R:80:ARG:NH1	44:ME:33:ASP:OD2	2.13	0.81
37:5C:40:VAL:HA	44:KG:264:ARG:HG3	1.62	0.81
35:6R:305:CYS:SG	35:6R:307:LYS:NZ	2.53	0.81
44:AA:265:ILE:HD12	44:AA:432:TYR:CE1	2.15	0.81
45:AF:58:ARG:HH21	45:BF:281:TYR:HD1	1.29	0.81
44:BA:407:TRP:CH2	45:BB:255:VAL:HA	2.13	0.81
44:BI:222:PRO:HD2	45:BJ:324:LYS:HD3	1.61	0.81
45:CH:256:ASN:HD22	45:CH:350:LYS:HD2	1.46	0.81
45:CL:331:LEU:O	45:CL:335:ASN:ND2	2.14	0.81
44:CM:288:VAL:HA	44:CM:291:ILE:HG12	1.59	0.81
45:DJ:418:LEU:O	45:DJ:422:TYR:N	2.12	0.81
45:DL:46:ARG:O	45:DL:49:VAL:HG23	1.81	0.81
45:DL:374:ILE:O	45:DL:379:LYS:HE3	1.80	0.81
44:EA:22:GLU:HG3	44:EA:83:TYR:HE2	1.46	0.81
44:EA:259:LEU:HD11	44:EA:316:SER:HB3	1.60	0.81
44:EA:319:TYR:N	44:EA:354:GLY:O	2.13	0.81
45:EB:318:ARG:N	45:EB:364:ALA:O	2.13	0.81
44:EI:141:VAL:HG11	44:EI:172:TYR:CD1	2.16	0.81
44:EK:68:LEU:HD22	44:EK:153:LEU:HD11	1.62	0.81
44:FG:326:LYS:HE2	45:FJ:219:THR:CA	2.10	0.81
45:FJ:163:ILE:HG21	45:FJ:251:ARG:HD2	1.63	0.81
45:FN:156:ARG:HB2	45:FN:195:ASN:HD21	1.46	0.81
44:GK:172:TYR:HH	44:GK:191:THR:HG1	1.21	0.81
45:GL:110:ALA:O	45:GL:113:ILE:HG22	1.81	0.81
44:GM:276:ILE:HD11	44:GM:280:LYS:HD2	1.63	0.81
44:GM:385:ALA:O	44:GM:389:SER:N	2.11	0.81
44:HC:275:ILE:HG23	44:HC:368:LEU:HD11	1.63	0.81
44:HK:88:HIS:CE1	44:HK:90:GLU:HG2	2.16	0.81
44:HK:101:ASN:HB2	45:HL:252:LYS:NZ	1.94	0.81
45:HL:67:ASP:OD1	45:HL:68:LEU:N	2.14	0.81
45:IB:3:GLU:HB3	45:IB:49:VAL:HA	1.61	0.81
45:IB:42:LEU:HA	45:IB:45:GLU:HG3	1.62	0.81
45:IH:135:ILE:HB	45:IH:166:THR:HG22	1.63	0.81
44:II:407:TRP:HZ3	45:IJ:255:VAL:HA	1.46	0.81
45:IJ:73:MET:HE2	45:IJ:73:MET:HA	1.62	0.81
45:IJ:262:ARG:O	45:IJ:264:HIS:ND1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:21:TRP:O	45:JB:25:SER:N	2.12	0.81
45:JB:330:MET:HA	45:JB:333:VAL:HG12	1.63	0.81
44:JC:33:ASP:OD1	44:JC:35:GLN:N	2.12	0.81
44:JG:238:LEU:HD11	44:JG:255:PHE:CE2	2.16	0.81
44:JK:271:SER:HB2	44:JK:377:MET:HE3	1.63	0.81
45:JL:235:GLY:HA2	45:JL:318:ARG:HH21	1.44	0.81
44:KA:262:TYR:HB2	44:KA:265:ILE:HG22	1.61	0.81
44:KK:288:VAL:HA	44:KK:291:ILE:HD11	1.61	0.81
44:KM:314:ALA:HB3	44:KM:380:ASN:HB3	1.61	0.81
45:LL:413:SER:O	45:LL:417:ASP:N	2.13	0.81
45:MF:68:LEU:HD23	45:MF:143:THR:OG1	1.80	0.81
45:MF:187:LEU:HD11	45:MF:408:PHE:CE1	2.16	0.81
44:MG:60:LYS:NZ	44:MG:85:GLN:O	2.13	0.81
45:MH:272:PRO:HD3	45:MH:289:LEU:HD11	1.61	0.81
44:MM:295:ALA:HB1	44:MM:377:MET:CE	2.11	0.81
44:NC:72:PRO:HA	44:NC:75:ILE:HB	1.63	0.81
44:NE:257:THR:HA	45:NH:397:TRP:CZ2	2.15	0.81
45:NF:232:ALA:HB1	45:NF:268:ILE:HD12	1.60	0.81
44:NG:328:VAL:HG11	44:NG:353:VAL:HG23	1.60	0.81
44:NK:68:LEU:HD21	44:NK:118:CYS:HB2	1.63	0.81
44:OA:101:ASN:HA	44:OA:144:GLY:H	1.43	0.81
45:OF:272:PRO:HD3	45:OF:364:ALA:HA	1.62	0.81
44:OK:115:VAL:HG22	44:OK:119:LEU:HD23	1.62	0.81
45:OL:210:ILE:O	45:OL:214:THR:OG1	1.98	0.81
44:PC:271:SER:OG	44:PC:301:MET:HA	1.81	0.81
45:PF:24:ILE:HG21	45:PF:234:SER:HB3	1.63	0.81
44:PI:11:GLN:NE2	45:PJ:245:GLN:O	2.13	0.81
44:QC:233:GLN:HB3	44:QC:272:TYR:CZ	2.16	0.81
45:QF:371:SER:O	45:QF:374:ILE:HG13	1.80	0.81
44:QI:144:GLY:N	46:QI:501:GTP:O3B	2.09	0.81
44:RC:225:THR:HA	44:RC:228:ASN:HB2	1.63	0.81
44:RE:141:VAL:HG11	44:RE:172:TYR:HA	1.62	0.81
45:RF:25:SER:HA	45:RF:30:ILE:HD13	1.62	0.81
44:RI:169:PHE:HA	44:RI:202:VAL:HB	1.61	0.81
45:RJ:275:SER:HG	45:RJ:278:SER:HG	1.18	0.81
45:RL:7:ILE:HB	45:RL:135:ILE:HD13	1.62	0.81
44:TM:141:VAL:HG22	44:TM:187:SER:HA	1.62	0.81
45:UF:58:ARG:HD3	45:VF:281:TYR:HB3	1.62	0.81
45:VJ:51:TYR:HE1	45:VJ:61:PRO:HG3	1.46	0.81
45:VJ:271:ALA:HB2	45:VJ:298:ASN:HD21	1.43	0.81
26:3R:3:SER:OG	35:6R:56:SER:HA	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:66:THR:HG22	45:MN:39:ASP:O	1.80	0.81
35:6R:404:LEU:HD13	45:DN:77:ARG:CD	1.96	0.81
44:AA:223:THR:HG23	44:AA:225:THR:H	1.46	0.81
45:AB:139:LEU:HD13	45:AB:168:SER:HB3	1.62	0.81
44:BK:221:ARG:HD2	45:BL:322:SER:HB3	1.61	0.81
44:BM:274:PRO:HB2	44:BM:276:ILE:CD1	2.10	0.81
44:CA:184:PRO:O	44:CA:188:ILE:HG12	1.81	0.81
44:CA:273:ALA:HB1	44:CA:274:PRO:HA	1.62	0.81
45:CB:316:LEU:HG	45:CB:352:SER:HB2	1.61	0.81
44:CC:251:ASP:HB2	44:CC:254:GLU:HG3	1.63	0.81
44:CE:8:HIS:HD2	44:CE:138:PHE:HB2	1.45	0.81
44:CE:284:GLU:HG3	44:CE:286:LEU:HD22	1.61	0.81
44:CI:132:LEU:O	44:CI:164:LYS:NZ	2.14	0.81
44:CM:405:VAL:HG12	44:CM:409:VAL:HG23	1.60	0.81
45:DF:323:THR:HG21	44:DG:224:TYR:CE1	2.16	0.81
45:DH:99:ASN:HA	45:DH:142:GLY:HA3	1.63	0.81
44:DI:336:LYS:HD3	44:DI:343:PHE:HE2	1.45	0.81
45:DN:296:ALA:HB1	45:DN:304:ASP:OD1	1.80	0.81
44:EA:64:ARG:O	44:EA:64:ARG:HD3	1.80	0.81
45:EF:97:ALA:HA	45:EF:103:LYS:HD2	1.62	0.81
44:EG:68:LEU:HD21	44:EG:118:CYS:HB2	1.61	0.81
44:EK:37:PRO:HD2	44:EK:40:LYS:HB2	1.62	0.81
44:EK:88:HIS:HB3	44:EK:91:GLN:HG2	1.62	0.81
45:EL:313:ALA:HB3	45:EL:349:ILE:HG12	1.63	0.81
44:EM:185:TYR:OH	44:EM:403:ALA:O	1.98	0.81
45:EN:383:GLU:O	45:EN:386:THR:HG22	1.81	0.81
44:FA:88:HIS:CE1	44:FA:90:GLU:HG2	2.14	0.81
45:FF:154:LYS:HE2	45:FF:154:LYS:HA	1.63	0.81
45:FH:262:ARG:HE	45:FH:263:LEU:HD12	1.43	0.81
44:FI:362:VAL:HG11	44:FI:370:LYS:HA	1.60	0.81
44:GA:51:THR:HG22	44:GA:52:PHE:HD1	1.44	0.81
45:GB:370:ASN:OD1	45:GB:422:TYR:OH	1.99	0.81
44:GI:174:SER:HB2	44:GI:177:VAL:O	1.79	0.81
45:GN:267:MET:HE2	45:GN:299:MET:HB3	1.63	0.81
45:HF:68:LEU:HD23	45:HF:97:ALA:HB2	1.63	0.81
45:HL:113:ILE:HD13	45:HL:150:LEU:HD22	1.61	0.81
45:HL:186:THR:HG21	45:HL:385:PHE:CB	2.11	0.81
45:IF:135:ILE:HG13	45:IF:152:ILE:HD11	1.63	0.81
44:II:79:ARG:HD3	44:II:92:LEU:HD12	1.62	0.81
45:JJ:156:ARG:NH1	45:JJ:162:ARG:O	2.13	0.81
44:KC:287:SER:N	44:KC:290:GLU:OE2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:176:GLN:NE2	44:LE:207:GLU:OE2	2.14	0.81
44:LG:269:LEU:HG	44:LG:301:MET:CE	2.11	0.81
45:LH:54:ALA:HA	45:MH:283:ALA:HB2	1.63	0.81
45:MB:8:GLN:NE2	45:MB:14:ASN:OD1	2.12	0.81
44:NC:298:PRO:HA	44:NC:301:MET:CE	2.11	0.81
44:NI:346:TRP:CE3	45:NL:391:ARG:HG3	2.15	0.81
45:OD:217:LEU:HD21	45:OD:220:PRO:HG3	1.61	0.81
44:OG:349:THR:HG21	45:OJ:176:SER:CB	2.10	0.81
45:OH:140:GLY:O	45:OH:184:ASN:ND2	2.13	0.81
45:OL:96:GLY:O	45:OL:103:LYS:NZ	2.11	0.81
44:OM:208:ALA:HB2	44:OM:304:LYS:HE2	1.60	0.81
45:ON:73:MET:CE	45:ON:92:PHE:HB3	2.11	0.81
44:PC:353:VAL:HG12	45:PF:177:ASP:HA	1.63	0.81
44:PE:284:GLU:HG3	44:PE:286:LEU:CD2	2.11	0.81
45:PF:20:PHE:CD2	45:PF:24:ILE:C	2.53	0.81
45:PH:251:ARG:O	45:PH:255:VAL:N	2.13	0.81
45:PJ:247:ASN:O	45:PJ:252:LYS:NZ	2.13	0.81
44:PK:241:SER:OG	44:PK:250:VAL:O	1.98	0.81
45:PN:73:MET:O	45:PN:76:VAL:HG12	1.81	0.81
44:QA:437:ILE:O	45:QB:391:ARG:NH2	2.14	0.81
44:QC:54:SER:OG	44:QC:62:VAL:O	1.98	0.81
45:QH:255:VAL:HA	44:QI:407:TRP:CZ3	2.15	0.81
45:QN:289:LEU:HD11	45:QN:363:MET:HG3	1.63	0.81
45:RD:161:ASP:O	45:RD:251:ARG:NH2	2.12	0.81
45:RH:139:LEU:HA	45:RH:145:SER:CB	2.10	0.81
45:RH:255:VAL:HA	44:RI:407:TRP:CZ3	2.15	0.81
44:SA:143:GLY:HA3	46:SA:501:GTP:H5'	1.62	0.81
45:SB:155:VAL:O	45:SB:159:TYR:N	2.13	0.81
45:SD:269:GLY:HA2	45:SD:300:MET:SD	2.20	0.81
44:SE:241:SER:OG	44:SE:250:VAL:O	1.99	0.81
44:SG:105:ARG:O	44:SG:110:ILE:N	2.10	0.81
44:TA:270:SER:OG	44:TA:302:MET:SD	2.39	0.81
45:TN:55:THR:HA	45:TN:87:PRO:CD	2.10	0.81
45:TN:309:ARG:NH2	45:TN:426:GLN:O	2.13	0.81
44:UC:36:MET:HG2	44:UC:37:PRO:HD2	1.63	0.81
45:VD:287:PRO:HA	45:VD:290:THR:HG22	1.63	0.81
44:VK:181:VAL:HG22	45:VL:256:ASN:OD1	1.81	0.81
45:VL:244:GLY:HA2	45:VL:355:ASP:OD2	1.81	0.81
45:WB:372:THR:HG21	45:WB:426:GLN:HB2	1.62	0.81
45:WD:221:THR:HG23	45:WD:224:ASP:H	1.45	0.81
45:WJ:117:LEU:HG	45:WJ:121:ARG:HH12	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:266:LYS:NZ	44:FE:364:PRO:CD	2.43	0.81
8:0G:119:ILE:HG12	44:JM:221:ARG:HH21	1.46	0.81
22:1L:431:ARG:NH2	44:CG:367:ASP:O	2.14	0.81
22:1L:662:THR:OG1	44:CE:279:GLU:OE2	1.98	0.81
37:5D:59:TYR:CE1	45:KN:186:THR:HB	2.15	0.81
35:6R:318:TYR:HD2	35:6R:321:MET:SD	2.03	0.81
44:AA:102:ASN:OD1	44:AA:105:ARG:N	2.13	0.81
44:AA:209:ILE:HD13	44:AA:227:LEU:HB3	1.62	0.81
44:AA:269:LEU:HD12	44:AA:303:ALA:HB3	1.63	0.81
45:AN:130:LEU:HB3	45:AN:162:ARG:HD2	1.63	0.81
45:BD:370:ASN:OD1	45:BD:422:TYR:OH	1.98	0.81
45:BH:10:GLY:O	45:BH:14:ASN:ND2	2.14	0.81
45:CH:230:SER:HA	45:CH:233:MET:SD	2.20	0.81
45:DN:237:THR:OG1	45:DN:240:LEU:HB3	1.81	0.81
45:EL:309:ARG:NH2	45:EL:426:GLN:O	2.13	0.81
44:EM:119:LEU:HD13	44:EM:122:ILE:HD11	1.61	0.81
44:FK:145:THR:N	46:FK:501:GTP:O2G	2.14	0.81
44:GK:222:PRO:O	45:GL:322:SER:HB2	1.80	0.81
44:GM:23:LEU:HD21	44:GM:236:SER:HB2	1.61	0.81
44:GM:318:MET:O	44:GM:376:CYS:N	2.13	0.81
45:HB:252:LYS:HA	45:HB:255:VAL:HG22	1.62	0.81
44:HC:221:ARG:NH1	45:HD:322:SER:OG	2.14	0.81
44:HE:259:LEU:HG	44:HE:316:SER:HB2	1.63	0.81
45:ID:100:ASN:ND2	45:ID:401:GLU:OE1	2.14	0.81
45:ID:167:PHE:CE1	45:ID:233:MET:HG2	2.15	0.81
45:IF:11:GLN:NE2	48:IF:501:GDP:O3B	2.12	0.81
44:JA:88:HIS:HB3	44:JA:91:GLN:HG2	1.62	0.81
45:JB:295:ASP:OD2	45:JB:297:LYS:HG2	1.81	0.81
44:JC:195:LEU:HD22	44:JC:428:LEU:HD22	1.62	0.81
45:JD:130:LEU:HD22	45:JD:133:PHE:HE1	1.46	0.81
44:JG:363:VAL:HG13	44:JG:364:PRO:HD2	1.61	0.81
44:JI:27:GLU:OE1	44:JI:243:ARG:NH1	2.14	0.81
45:JJ:173:PRO:HG2	45:JJ:380:ARG:HD2	1.61	0.81
44:KA:202:VAL:HA	44:KA:268:MET:O	1.79	0.81
44:KI:51:THR:HG21	44:KI:243:ARG:HD3	1.61	0.81
45:LB:166:THR:N	45:LB:198:GLU:O	2.14	0.81
44:MI:363:VAL:HG13	44:MI:364:PRO:HD2	1.62	0.81
44:NC:269:LEU:HD23	44:NC:384:ILE:HD13	1.61	0.81
44:NE:128:ASN:ND2	44:OE:285:GLN:OE1	2.14	0.81
44:NE:329:ASN:OD1	44:NE:330:ALA:N	2.14	0.81
44:OC:345:ASP:HB2	44:OC:438:GLU:HG3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:154:LEU:HD23	44:OG:157:LEU:HD12	1.62	0.81
44:PA:271:SER:CA	44:PA:302:MET:HE1	2.10	0.81
45:PB:2:ARG:H	45:PB:129:CYS:HB3	1.46	0.81
45:PD:5:VAL:CA	45:PD:130:LEU:HD21	2.11	0.81
45:QB:211:CYS:O	45:QB:216:LYS:N	2.11	0.81
44:QC:25:CYS:O	44:QC:29:GLY:N	2.14	0.81
45:QD:42:LEU:HA	45:QD:45:GLU:HG3	1.63	0.81
45:QH:150:LEU:HD21	45:QH:154:LYS:HE2	1.63	0.81
44:QK:33:ASP:HB3	44:QK:35:GLN:HE22	1.46	0.81
44:RA:318:MET:N	44:RA:376:CYS:O	2.11	0.81
44:RC:274:PRO:HD2	44:RC:374:ALA:HA	1.63	0.81
45:RF:289:LEU:HD11	45:RF:363:MET:HB3	1.63	0.81
44:RG:273:ALA:HB1	44:RG:274:PRO:HA	1.63	0.81
44:SA:2:ARG:O	44:SA:51:THR:HA	1.80	0.81
45:TD:46:ARG:NH2	44:TE:76:ASP:OD2	2.13	0.81
44:TE:10:GLY:O	44:TE:14:ILE:N	2.14	0.81
44:TE:424:ASP:OD1	44:TE:425:LEU:N	2.14	0.81
45:TH:177:ASP:N	45:TH:181:GLU:OE2	2.14	0.81
45:TJ:100:ASN:ND2	45:TJ:401:GLU:OE1	2.13	0.81
45:UB:25:SER:O	45:UB:29:GLY:N	2.14	0.81
45:UB:278:SER:OG	45:UB:282:ARG:N	2.13	0.81
45:UB:315:ALA:O	45:UB:352:SER:N	2.14	0.81
44:UG:340:THR:HG23	44:UG:341:ILE:HG13	1.63	0.81
45:UL:318:ARG:HB3	45:UL:357:PRO:HA	1.63	0.81
45:UN:211:CYS:HA	45:UN:215:LEU:HB2	1.63	0.81
44:VE:284:GLU:HG3	44:VE:286:LEU:HD22	1.63	0.81
44:VM:394:LYS:NZ	45:VN:347:ASN:OD1	2.12	0.81
45:WJ:86:ARG:HG2	45:WJ:89:ASN:ND2	1.95	0.81
44:WM:88:HIS:CE1	44:WM:90:GLU:HG2	2.16	0.81
1:6H:174:MET:H	45:FB:320:ARG:CD	1.93	0.81
1:6H:215:ASN:O	45:FD:359:LYS:HG3	1.81	0.81
19:1I:22:LEU:HD13	45:ID:46:ARG:HH12	1.46	0.81
12:2S:41:SER:HB3	44:WG:62:VAL:HG21	1.62	0.81
11:3Q:38:THR:HG22	36:5S:208:GLN:OE1	1.80	0.81
35:6R:446:PHE:HE1	35:6R:487:GLU:HG2	1.40	0.81
44:AA:119:LEU:HA	44:AA:122:ILE:HD12	1.63	0.81
44:AA:273:ALA:HA	44:AA:275:ILE:HD12	1.60	0.81
44:AI:238:LEU:HD11	44:AI:255:PHE:CE2	2.15	0.81
44:AM:11:GLN:HE22	45:AN:247:ASN:H	1.25	0.81
44:AM:246:GLY:HA2	44:AM:357:TYR:CE2	2.16	0.81
44:BA:2:ARG:NH1	44:BA:51:THR:OG1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:244:PHE:HB2	44:BA:356:ASN:HD21	1.43	0.81
44:BC:221:ARG:NH1	45:BD:322:SER:O	2.13	0.81
44:BE:101:ASN:HB2	45:BF:255:VAL:HG11	1.62	0.81
44:BE:407:TRP:CZ3	45:BF:255:VAL:HA	2.15	0.81
44:BM:88:HIS:HA	44:CM:283:HIS:ND1	1.96	0.81
44:BM:394:LYS:HZ1	45:BN:346:PRO:HG2	1.46	0.81
45:CL:167:PHE:CE2	45:CL:233:MET:HG2	2.15	0.81
45:EB:100:ASN:HB3	45:EB:103:LYS:HG2	1.63	0.81
44:EK:12:GLY:O	44:EK:16:VAL:HG23	1.81	0.81
44:EM:349:THR:HG23	45:EN:179:VAL:HA	1.62	0.81
45:EN:388:MET:HE3	45:EN:393:ALA:HB3	1.61	0.81
44:FI:56:THR:HA	44:GI:285:GLN:HB3	1.62	0.81
45:FJ:21:TRP:CZ3	45:FJ:61:PRO:HB3	2.16	0.81
44:GA:16:VAL:HG22	44:GA:228:ASN:OD1	1.79	0.81
44:GA:104:ALA:O	44:GA:108:TYR:N	2.13	0.81
45:GF:202:ILE:HD11	45:GF:268:ILE:HD11	1.62	0.81
44:GM:76:ASP:OD1	44:GM:79:ARG:NH2	2.14	0.81
45:HB:317:PHE:HA	45:HB:365:VAL:CG2	2.09	0.81
45:HF:107:THR:HG23	45:HF:108:GLU:OE1	1.81	0.81
44:HI:339:ARG:O	44:HI:341:ILE:N	2.14	0.81
45:IB:87:PRO:HA	45:IB:90:PHE:HD2	1.44	0.81
45:IH:7:ILE:HD13	45:IH:151:LEU:HD21	1.61	0.81
44:IM:188:ILE:HD12	44:IM:425:LEU:HD21	1.63	0.81
44:JA:136:LEU:HD23	44:JA:167:LEU:HB2	1.63	0.81
44:JG:55:GLU:HG3	44:JG:57:GLY:H	1.46	0.81
45:KF:31:ASP:OD1	45:KF:35:THR:N	2.09	0.81
44:KK:102:ASN:OD1	44:KK:105:ARG:N	2.13	0.81
45:MB:275:SER:HG	45:MB:278:SER:HG	1.19	0.81
45:MF:173:PRO:CG	45:MF:380:ARG:HD3	2.11	0.81
45:MH:317:PHE:HA	45:MH:365:VAL:HG12	1.61	0.81
44:MI:403:ALA:HA	45:MJ:260:PHE:CE1	2.13	0.81
45:MJ:210:ILE:O	45:MJ:214:THR:OG1	1.99	0.81
44:MM:102:ASN:O	44:MM:105:ARG:N	2.14	0.81
45:NL:388:MET:SD	45:NL:391:ARG:NE	2.52	0.81
44:NM:91:GLN:HG2	44:NM:121:ARG:HD3	1.61	0.81
44:OA:98:ASP:O	44:OA:105:ARG:NH1	2.14	0.81
44:OC:241:SER:OG	44:OC:250:VAL:O	1.99	0.81
44:PC:424:ASP:O	44:PC:428:LEU:N	2.12	0.81
44:PG:155:GLU:HA	44:PG:197:HIS:CD2	2.15	0.81
44:PK:352:LYS:HA	45:PN:177:ASP:O	1.80	0.81
44:QA:188:ILE:CD1	44:QA:425:LEU:HD21	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:187:SER:O	44:QE:190:SER:OG	1.99	0.81
44:QE:204:LEU:HD13	44:QE:231:ILE:HD11	1.63	0.81
45:QH:262:ARG:NH1	45:QH:421:GLU:OE1	2.13	0.81
44:RA:259:LEU:O	44:RA:380:ASN:ND2	2.12	0.81
45:RJ:52:ASN:OD1	45:RJ:62:ARG:NH2	2.13	0.81
45:SF:1:MET:O	45:SF:2:ARG:HG2	1.81	0.81
44:SG:257:THR:HA	45:SH:397:TRP:CH2	2.16	0.81
44:SI:271:SER:HA	44:SI:302:MET:HG2	1.64	0.81
45:TB:248:SER:HA	45:TB:252:LYS:HD2	1.62	0.81
44:TG:179:THR:HG21	46:TG:501:GTP:H3'	1.62	0.81
44:TK:385:ALA:O	44:TK:389:SER:N	2.14	0.81
44:UA:231:ILE:O	44:UA:235:ILE:HG12	1.81	0.81
45:UB:3:GLU:OE1	45:UB:127:CYS:HB2	1.81	0.81
45:VF:247:ASN:O	45:VF:252:LYS:NZ	2.13	0.81
44:WM:298:PRO:HA	44:WM:301:MET:HE1	1.62	0.81
16:3X:1:MET:HB3	44:MM:249:ASN:ND2	1.96	0.80
37:5D:108:ARG:H	44:NM:279:GLU:N	1.35	0.80
35:5R:184:ASP:OD1	35:5R:185:SER:N	2.14	0.80
35:5R:249:LEU:HD11	44:CI:282:TYR:CE2	2.16	0.80
41:6G:235:ILE:HG21	44:UE:96:LYS:HD2	1.61	0.80
42:8N:322:UNK:O	42:8N:326:UNK:N	2.14	0.80
44:BC:122:ILE:HG21	44:BC:157:LEU:HD21	1.62	0.80
44:CK:68:LEU:HD21	44:CK:118:CYS:HB2	1.63	0.80
45:CL:251:ARG:O	45:CL:255:VAL:N	2.12	0.80
44:CM:69:ASP:OD1	44:CM:70:LEU:N	2.13	0.80
45:DB:246:LEU:HD11	44:DC:224:TYR:HE2	1.46	0.80
45:DD:135:ILE:N	45:DD:165:GLU:O	2.14	0.80
45:DH:68:LEU:HD23	45:DH:97:ALA:HB2	1.63	0.80
44:DK:288:VAL:HG21	44:DK:323:VAL:HG21	1.61	0.80
44:EG:60:LYS:NZ	44:EG:85:GLN:O	2.15	0.80
45:EH:12:CYS:SG	45:EH:138:SER:OG	2.39	0.80
45:EH:262:ARG:NH1	45:EH:421:GLU:OE1	2.15	0.80
44:EK:200:VAL:HG23	44:EK:256:GLN:HB3	1.63	0.80
45:FF:334:GLN:NE2	45:FF:348:ASN:OD1	2.14	0.80
44:FG:326:LYS:HE3	45:FJ:220:PRO:HD2	1.62	0.80
44:GA:79:ARG:HG2	44:GA:92:LEU:HD22	1.63	0.80
44:GC:385:ALA:HA	44:GC:388:PHE:HD2	1.45	0.80
44:GK:171:ILE:HG12	44:GK:204:LEU:HB2	1.62	0.80
45:GN:269:GLY:N	45:GN:367:PHE:O	2.13	0.80
44:HC:140:SER:OG	46:HC:501:GTP:O2A	1.98	0.80
44:IG:174:SER:OG	44:IG:206:ASN:OD1	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:237:SER:HA	44:II:320:ARG:HH12	1.46	0.80
45:JD:342:VAL:HG13	45:JD:345:ILE:HG22	1.62	0.80
44:KA:71:GLU:OE2	44:KA:73:THR:OG1	1.98	0.80
44:KI:247:ALA:HB3	44:KI:355:ILE:HD11	1.61	0.80
45:KL:5:VAL:HG12	45:KL:62:ARG:HD2	1.61	0.80
44:LA:397:LEU:HD21	45:LB:344:TRP:HA	1.63	0.80
44:LG:209:ILE:HD12	44:LG:227:LEU:HB3	1.61	0.80
44:LG:288:VAL:HG11	44:LG:327:ASP:HB3	1.62	0.80
45:MD:252:LYS:HG2	45:MD:350:LYS:HE2	1.62	0.80
45:ML:91:VAL:HG21	45:ML:116:VAL:HG22	1.63	0.80
44:MM:403:ALA:HA	45:MN:260:PHE:CE2	2.16	0.80
45:MN:34:GLY:HA3	45:MN:58:ARG:HB2	1.63	0.80
44:NA:306:ASP:OD2	44:NA:308:ARG:HD2	1.81	0.80
45:NB:325:GLU:HA	45:NB:328:GLU:HG2	1.64	0.80
44:OE:265:ILE:HG23	44:OE:432:TYR:HE1	1.45	0.80
45:OF:203:ASP:OD2	45:OF:377:MET:HE3	1.80	0.80
44:OG:248:LEU:HD11	45:OJ:222:TYR:HE2	1.46	0.80
45:PB:423:GLN:NE2	45:PB:424:GLN:OE1	2.14	0.80
45:PD:52:ASN:HB2	45:PD:62:ARG:NH2	1.97	0.80
44:PE:22:GLU:O	44:PE:26:LEU:N	2.13	0.80
45:PJ:269:GLY:HA2	45:PJ:300:MET:HG2	1.60	0.80
44:PK:268:MET:HB3	44:PK:380:ASN:HB2	1.61	0.80
45:QJ:22:GLU:HG2	45:QJ:81:PHE:CG	2.16	0.80
45:QJ:423:GLN:O	45:QJ:426:GLN:HG3	1.80	0.80
44:QM:278:ALA:HA	44:QM:369:ALA:HB2	1.63	0.80
44:RA:131:GLY:O	44:RA:133:GLN:NE2	2.12	0.80
44:RE:89:PRO:HG3	44:SE:280:LYS:CB	2.11	0.80
45:RF:69:GLU:OE1	45:RF:71:GLY:N	2.13	0.80
45:RH:164:MET:HE3	45:RH:197:ASP:N	1.94	0.80
45:RJ:319:GLY:HA3	45:RJ:363:MET:HE1	1.62	0.80
44:RM:294:SER:O	44:RM:297:GLU:HG2	1.80	0.80
44:SC:325:PRO:O	44:SC:329:ASN:N	2.12	0.80
45:SN:21:TRP:HZ3	45:SN:50:TYR:HB3	1.44	0.80
44:TA:77:GLU:OE1	44:TA:80:THR:OG1	1.99	0.80
45:TB:178:THR:CG2	45:TB:180:VAL:HG12	2.11	0.80
45:TD:222:TYR:HB3	48:TD:501:GDP:C6	2.15	0.80
45:TJ:2:ARG:H	45:TJ:129:CYS:HB3	1.46	0.80
45:TL:46:ARG:NH2	44:TM:76:ASP:OD2	2.12	0.80
45:TL:180:VAL:HG22	45:TL:183:TYR:HB2	1.63	0.80
45:TN:19:LYS:NZ	45:TN:227:HIS:HA	1.96	0.80
45:TN:73:MET:HE1	45:TN:92:PHE:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:104:ALA:HB2	44:UA:413:MET:CE	2.10	0.80
44:UA:319:TYR:N	44:UA:354:GLY:O	2.14	0.80
45:UJ:49:VAL:HG21	45:UJ:241:ARG:HG2	1.62	0.80
44:VA:212:ILE:HD11	44:VA:300:ASN:HA	1.62	0.80
45:VF:67:ASP:OD1	45:VF:68:LEU:N	2.13	0.80
44:VG:155:GLU:O	44:VG:158:SER:OG	2.00	0.80
44:VG:394:LYS:HE2	45:VH:346:PRO:HB2	1.63	0.80
45:VJ:145:SER:HB2	45:VJ:188:SER:HB3	1.61	0.80
45:WB:39:ASP:N	45:WB:43:GLN:OE1	2.13	0.80
44:WE:76:ASP:OD2	45:WF:46:ARG:NH2	2.14	0.80
45:WH:210:ILE:HG23	45:WH:214:THR:HG21	1.61	0.80
44:WK:317:MET:HG2	44:WK:376:CYS:O	1.81	0.80
15:0V:69:SER:O	45:LN:121:ARG:HD3	1.81	0.80
25:1P:302:LYS:HD3	45:TD:362:LYS:HD3	1.62	0.80
32:2I:138:VAL:HA	45:GD:337:ASN:HD21	1.45	0.80
16:3X:42:LYS:NZ	44:LM:55:GLU:OE2	2.14	0.80
35:4R:29:GLN:HG2	44:LC:2:ARG:HH12	1.45	0.80
38:5H:35:LEU:HD13	38:5H:36:PRO:HG2	1.61	0.80
45:AD:286:VAL:HB	45:AD:325:GLU:HG2	1.62	0.80
45:AD:318:ARG:NH2	45:AD:356:ILE:O	2.14	0.80
45:AL:73:MET:HA	45:AL:76:VAL:HG12	1.63	0.80
44:BG:71:GLU:OE1	44:BG:73:THR:N	2.15	0.80
45:CB:169:VAL:HG22	45:CB:202:ILE:HB	1.61	0.80
44:CE:10:GLY:O	44:CE:14:ILE:HD12	1.81	0.80
45:CJ:167:PHE:HE2	45:CJ:233:MET:HG2	1.45	0.80
45:CL:314:SER:HA	45:CL:350:LYS:HB2	1.61	0.80
45:CN:292:GLN:NE2	45:CN:298:ASN:OD1	2.14	0.80
44:DE:217:LEU:O	44:DE:277:SER:OG	1.97	0.80
44:DG:168:GLY:O	44:DG:201:ALA:HA	1.81	0.80
44:DK:312:TYR:O	44:DK:344:VAL:N	2.15	0.80
45:EB:316:LEU:O	45:EB:365:VAL:HA	1.81	0.80
44:EG:76:ASP:HA	44:EG:79:ARG:HH12	1.46	0.80
45:EL:86:ARG:HH21	45:EL:87:PRO:HG2	1.47	0.80
44:FM:269:LEU:HD12	44:FM:301:MET:HG2	1.63	0.80
44:GA:88:HIS:NE2	44:HA:280:LYS:HE2	1.96	0.80
45:GB:156:ARG:NH1	45:GB:159:TYR:O	2.14	0.80
44:GE:63:PRO:HG2	44:GE:86:LEU:HG	1.61	0.80
44:GE:254:GLU:CG	45:GH:98:GLY:HA2	2.09	0.80
44:GG:210:TYR:CE1	44:GG:227:LEU:HD11	2.15	0.80
44:GM:202:VAL:HG12	44:GM:302:MET:HE1	1.62	0.80
45:GN:99:ASN:HD22	45:GN:141:GLY:HA2	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:258:ILE:HG13	45:HB:266:PHE:HZ	1.43	0.80
45:HB:259:PRO:HG2	45:HB:263:LEU:HD22	1.62	0.80
45:HF:170:VAL:HG13	45:HF:171:PRO:HD2	1.63	0.80
45:HN:309:ARG:HH12	45:HN:342:VAL:HA	1.45	0.80
44:IA:284:GLU:HG3	44:IA:286:LEU:HD22	1.63	0.80
45:IB:4:ILE:HG23	45:IB:131:GLN:HB3	1.64	0.80
44:IC:164:LYS:O	44:IC:166:LYS:NZ	2.11	0.80
44:IG:311:LYS:O	44:IG:381:SER:OG	1.99	0.80
44:IG:439:THR:HB	45:IJ:391:ARG:HH22	1.45	0.80
45:IH:86:ARG:NH2	44:JE:280:LYS:HA	1.96	0.80
44:IK:320:ARG:HH12	44:IK:360:PRO:HA	1.46	0.80
45:JN:58:ARG:HH22	45:JN:83:GLN:HG2	1.45	0.80
45:KF:61:PRO:HG2	45:KF:85:PHE:HD1	1.47	0.80
45:KJ:382:ALA:HB2	45:KJ:415:MET:HE2	1.62	0.80
45:LH:267:MET:HB3	45:LH:299:MET:CE	2.10	0.80
45:LJ:202:ILE:HD11	45:LJ:268:ILE:HG12	1.63	0.80
44:ME:3:GLU:OE2	44:ME:129:CYS:HB3	1.81	0.80
45:ML:1:MET:O	45:ML:2:ARG:HG2	1.79	0.80
44:NC:31:GLN:HG3	44:NC:32:PRO:HD2	1.63	0.80
44:NK:49:PHE:O	44:NK:53:PHE:N	2.14	0.80
45:PD:150:LEU:HB3	45:PD:154:LYS:HZ1	1.45	0.80
45:PD:319:GLY:HA2	45:PD:357:PRO:HD3	1.61	0.80
45:PJ:342:VAL:HG13	45:PJ:345:ILE:HG22	1.64	0.80
44:QI:268:MET:HB2	44:QI:379:SER:O	1.80	0.80
45:QJ:221:THR:O	45:QJ:225:LEU:HG	1.80	0.80
44:QM:203:MET:HE1	44:QM:387:VAL:HG21	1.62	0.80
44:RC:174:SER:HB2	44:RC:177:VAL:O	1.79	0.80
45:RL:309:ARG:NH1	45:RL:341:PHE:O	2.14	0.80
44:RM:3:GLU:OE2	44:RM:130:THR:N	2.14	0.80
44:RM:325:PRO:HG3	44:RM:355:ILE:HD13	1.63	0.80
44:SA:206:ASN:OD1	46:SA:501:GTP:N2	2.14	0.80
44:SE:215:ARG:NH2	44:SE:300:ASN:OD1	2.13	0.80
44:SG:1:MET:HB2	44:SG:130:THR:HG21	1.62	0.80
45:SH:324:LYS:HG3	44:SI:210:TYR:CE2	2.17	0.80
45:SL:143:THR:O	45:SL:147:MET:N	2.13	0.80
44:SM:88:HIS:CE1	44:SM:90:GLU:HG2	2.16	0.80
44:SM:105:ARG:HA	44:SM:109:THR:HB	1.61	0.80
44:TA:316:SER:OG	44:TA:352:LYS:O	2.00	0.80
44:TE:68:LEU:HD21	44:TE:118:CYS:HB2	1.63	0.80
44:TE:226:ASN:HA	44:TE:229:ARG:NH1	1.95	0.80
45:TH:342:VAL:HG13	45:TH:345:ILE:HG22	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:133:PHE:N	45:UB:163:ILE:O	2.10	0.80
45:UB:299:MET:HG3	45:UB:305:PRO:HG3	1.64	0.80
45:UB:372:THR:HA	45:UB:422:TYR:CE2	2.16	0.80
44:VG:394:LYS:NZ	45:VH:346:PRO:HG2	1.97	0.80
45:VJ:62:ARG:O	45:VJ:62:ARG:HD2	1.80	0.80
45:VJ:156:ARG:NH1	45:VJ:162:ARG:O	2.14	0.80
45:VJ:379:LYS:O	45:VJ:383:GLU:N	2.12	0.80
45:VL:269:GLY:N	45:VL:367:PHE:O	2.14	0.80
44:WA:258:ASN:HD21	44:WA:352:LYS:HB2	1.47	0.80
44:WE:287:SER:N	44:WE:290:GLU:OE2	2.12	0.80
45:WF:262:ARG:HG3	45:WF:263:LEU:HD12	1.63	0.80
45:WL:7:ILE:HG22	45:WL:64:ILE:HB	1.62	0.80
44:WM:317:MET:HG3	44:WM:376:CYS:O	1.81	0.80
24:2O:203:GLN:OE1	44:UK:58:ALA:HB1	1.81	0.80
2:3A:150:LEU:HB2	35:6R:78:ILE:HD11	1.63	0.80
37:5D:27:LYS:HA	45:KN:395:LEU:HD22	1.62	0.80
44:AC:88:HIS:CE1	44:AC:90:GLU:HG2	2.17	0.80
45:BL:20:PHE:CE2	45:BL:24:ILE:HG13	2.17	0.80
44:CA:36:MET:HG2	44:CA:61:HIS:CE1	2.17	0.80
45:CD:3:GLU:O	45:CD:131:GLN:N	2.13	0.80
44:DI:236:SER:O	44:DI:240:ALA:N	2.12	0.80
44:DM:99:ALA:HB3	46:DM:501:GTP:O2G	1.82	0.80
44:DM:185:TYR:CE2	44:DM:404:PHE:HB2	2.16	0.80
44:EA:350:GLY:HA2	45:EB:179:VAL:HG12	1.64	0.80
45:ED:135:ILE:HB	45:ED:166:THR:HG22	1.62	0.80
45:EF:86:ARG:HD2	45:EF:89:ASN:OD1	1.81	0.80
45:EH:124:ALA:HB1	45:EH:130:LEU:HD11	1.61	0.80
45:EH:221:THR:HG23	45:EH:223:GLY:H	1.46	0.80
45:FB:342:VAL:HG21	45:FB:345:ILE:CG2	2.11	0.80
44:FG:175:PRO:HG3	44:FG:304:LYS:HG2	1.63	0.80
45:FJ:317:PHE:HA	45:FJ:365:VAL:HG12	1.62	0.80
44:GA:7:ILE:N	44:GA:136:LEU:O	2.12	0.80
45:GL:267:MET:HE3	45:GL:301:CYS:HB2	1.63	0.80
45:GL:271:ALA:HB1	45:GL:272:PRO:HA	1.63	0.80
44:GM:2:ARG:NE	44:GM:242:LEU:O	2.15	0.80
44:HK:352:LYS:HD3	45:HN:178:THR:HG23	1.64	0.80
44:HM:72:PRO:HG3	44:HM:95:GLY:O	1.79	0.80
44:IC:319:TYR:N	44:IC:354:GLY:O	2.12	0.80
44:IG:251:ASP:HB2	44:IG:254:GLU:HG3	1.64	0.80
44:II:100:ALA:O	45:IJ:255:VAL:HG21	1.79	0.80
44:JG:36:MET:HE3	44:JG:41:THR:HG21	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:218:THR:HG22	45:JH:219:THR:HG23	1.63	0.80
44:JK:265:ILE:HD11	44:JK:435:VAL:HG21	1.63	0.80
44:JK:287:SER:HA	44:JK:373:ARG:HH21	1.44	0.80
45:JL:302:ALA:HB3	45:JL:377:MET:SD	2.20	0.80
44:KA:286:LEU:N	44:KA:290:GLU:OE2	2.14	0.80
45:KD:58:ARG:NH2	45:LD:281:TYR:HA	1.96	0.80
45:KD:330:MET:CE	45:KD:349:ILE:HD13	2.12	0.80
44:LC:130:THR:O	45:LF:94:GLN:NE2	2.14	0.80
45:MF:31:ASP:OD2	45:MF:37:HIS:ND1	2.14	0.80
44:MI:4:VAL:HG11	44:MI:252:ILE:HD12	1.63	0.80
45:MJ:341:PHE:HB3	45:MJ:348:ASN:HD21	1.46	0.80
44:MM:21:TRP:O	44:MM:25:CYS:N	2.15	0.80
45:NB:168:SER:HG	45:NB:199:CYS:HG	1.29	0.80
44:OA:62:VAL:HG12	44:OA:63:PRO:HA	1.64	0.80
44:OA:76:ASP:OD2	45:OB:46:ARG:NH2	2.15	0.80
44:OI:188:ILE:HD12	44:OI:425:LEU:HD22	1.63	0.80
45:OL:178:THR:HB	45:OL:181:GLU:HG3	1.61	0.80
45:PF:133:PHE:HB2	45:PF:164:MET:CE	2.10	0.80
45:PJ:119:VAL:HA	45:PJ:122:LYS:HZ3	1.43	0.80
44:PM:316:SER:N	44:PM:378:ILE:O	2.14	0.80
45:PN:102:ALA:HB1	45:PN:401:GLU:HB2	1.64	0.80
44:QA:145:THR:HG22	46:QA:501:GTP:O3B	1.80	0.80
44:QI:258:ASN:HD22	44:QI:352:LYS:HD3	1.46	0.80
44:RA:313:MET:HE3	44:RA:313:MET:HA	1.62	0.80
45:RD:119:VAL:HA	45:RD:122:LYS:HG2	1.61	0.80
44:RE:213:CYS:O	44:RE:217:LEU:N	2.14	0.80
45:RF:172:SER:HB2	45:RF:205:GLU:HB2	1.64	0.80
45:RJ:325:GLU:HG2	45:RJ:329:GLN:HG3	1.63	0.80
45:SB:207:LEU:HA	45:SB:210:ILE:HB	1.60	0.80
45:SH:100:ASN:HD22	45:SH:103:LYS:HB2	1.45	0.80
44:SI:51:THR:HG22	44:SI:52:PHE:CD1	2.16	0.80
45:SL:282:ARG:NH2	45:SL:288:GLU:OE1	2.13	0.80
44:SM:416:GLY:O	44:SM:419:SER:OG	1.99	0.80
44:TC:23:LEU:O	44:TC:27:GLU:N	2.12	0.80
45:TD:68:LEU:CD1	45:TD:147:MET:HE1	2.10	0.80
45:TD:377:MET:O	45:TD:380:ARG:HG2	1.81	0.80
45:TF:384:GLN:HA	45:TF:387:ALA:HB3	1.64	0.80
44:TM:319:TYR:N	44:TM:354:GLY:O	2.14	0.80
45:TN:11:GLN:O	45:TN:15:GLN:HG2	1.81	0.80
44:UC:352:LYS:HD2	45:UD:177:ASP:O	1.81	0.80
45:UH:327:ASP:O	45:UH:331:LEU:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:174:SER:OG	44:UK:206:ASN:OD1	1.96	0.80
45:UL:16:ILE:O	45:UL:20:PHE:N	2.13	0.80
44:VE:203:MET:HE2	44:VE:269:LEU:HB3	1.63	0.80
44:VG:187:SER:O	44:VG:190:SER:OG	1.99	0.80
44:WI:209:ILE:O	44:WI:213:CYS:N	2.12	0.80
44:WI:311:LYS:HD2	44:WI:342:GLN:HG3	1.63	0.80
1:6H:174:MET:CG	45:FB:320:ARG:HB3	2.10	0.80
1:6H:251:ASP:H	45:FF:360:GLY:HA2	1.42	0.80
12:OS:275:TYR:OH	45:WB:123:GLU:OE2	1.99	0.80
5:1D:166:ARG:NH2	44:EG:80:THR:O	2.15	0.80
10:1N:179:ILE:HD12	45:KJ:37:HIS:CB	2.11	0.80
42:8L:290:UNK:HA	45:SF:276:ARG:HD2	1.62	0.80
42:8L:344:UNK:O	42:8L:348:UNK:N	2.14	0.80
45:AB:55:THR:HG21	45:BB:284:LEU:H	1.45	0.80
45:AF:391:ARG:HA	45:AF:391:ARG:HH11	1.47	0.80
44:BE:36:MET:SD	44:BE:37:PRO:HD2	2.22	0.80
45:BN:342:VAL:HG13	45:BN:345:ILE:HG22	1.61	0.80
44:CA:69:ASP:O	44:CA:94:SER:OG	1.98	0.80
45:CB:224:ASP:O	45:CB:228:LEU:N	2.14	0.80
45:CF:5:VAL:HG12	45:CF:62:ARG:HD3	1.62	0.80
44:CM:115:VAL:HG21	44:CM:156:ARG:HH21	1.47	0.80
45:CN:413:SER:O	45:CN:417:ASP:N	2.11	0.80
45:DJ:68:LEU:HG	45:DJ:96:GLY:H	1.44	0.80
45:EN:163:ILE:HD13	45:EN:251:ARG:HG3	1.63	0.80
44:FG:49:PHE:HB2	44:FG:53:PHE:HB2	1.62	0.80
44:GI:311:LYS:HD2	44:GI:342:GLN:HG3	1.62	0.80
44:HA:268:MET:HE3	44:HA:380:ASN:CB	2.11	0.80
45:HB:223:GLY:O	45:HB:227:HIS:N	2.14	0.80
45:HF:323:THR:O	45:HF:326:VAL:N	2.15	0.80
45:IB:334:GLN:HB2	45:IB:349:ILE:HD12	1.64	0.80
44:IC:222:PRO:HD2	45:ID:324:LYS:HD3	1.62	0.80
45:IH:167:PHE:CE1	45:IH:200:MET:HB2	2.16	0.80
44:JC:329:ASN:HD21	45:JF:175:VAL:HG22	1.45	0.80
45:JH:113:ILE:HA	45:JH:116:VAL:HG12	1.64	0.80
45:KF:423:GLN:O	45:KF:426:GLN:HG3	1.82	0.80
45:KH:331:LEU:HD12	45:KH:334:GLN:HE21	1.46	0.80
44:LA:259:LEU:HD13	44:LA:314:ALA:HB1	1.63	0.80
45:LD:117:LEU:HB3	45:LD:121:ARG:HH12	1.46	0.80
44:LK:325:PRO:HB3	45:LN:208:TYR:OH	1.81	0.80
44:LM:188:ILE:HG23	44:LM:425:LEU:CD1	2.12	0.80
44:LM:286:LEU:N	44:LM:290:GLU:OE2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:71:GLU:OE2	44:MI:73:THR:OG1	1.99	0.80
44:NC:32:PRO:HB3	44:NC:83:TYR:HE1	1.44	0.80
45:NF:342:VAL:HG13	45:NF:345:ILE:HG22	1.63	0.80
45:NH:391:ARG:NE	45:NH:393:ALA:HB3	1.96	0.80
44:NI:271:SER:OG	44:NI:301:MET:SD	2.38	0.80
44:NK:55:GLU:HG3	44:NK:57:GLY:HA2	1.64	0.80
44:OC:311:LYS:HD2	44:OC:342:GLN:HG3	1.62	0.80
44:OK:69:ASP:HB3	44:OK:75:ILE:HD11	1.62	0.80
45:ON:141:GLY:HA3	48:ON:501:GDP:O3A	1.81	0.80
45:PD:11:GLN:HG3	45:PD:72:THR:OG1	1.80	0.80
45:PH:271:ALA:HB1	45:PH:272:PRO:HA	1.64	0.80
45:QD:309:ARG:NE	45:QD:426:GLN:OE1	2.15	0.80
44:QG:340:THR:HG23	44:QG:341:ILE:HG12	1.63	0.80
45:QL:113:ILE:HD11	45:QL:151:LEU:HD22	1.64	0.80
44:QM:68:LEU:HD21	44:QM:118:CYS:SG	2.21	0.80
44:RC:149:LEU:O	44:RC:153:LEU:N	2.10	0.80
45:RH:166:THR:OG1	45:RH:198:GLU:O	1.98	0.80
44:RK:202:VAL:HG11	44:RK:270:SER:HB3	1.62	0.80
44:RK:328:VAL:O	44:RK:332:ILE:N	2.14	0.80
45:RL:271:ALA:HB3	45:RL:365:VAL:HB	1.62	0.80
45:SB:272:PRO:HB3	45:SB:292:GLN:HE22	1.43	0.80
45:SB:347:ASN:O	44:SC:181:VAL:HG12	1.81	0.80
45:SD:289:LEU:HD11	45:SD:363:MET:HG3	1.62	0.80
45:SF:73:MET:CE	45:SF:92:PHE:HB3	2.12	0.80
44:SI:87:PHE:HB3	44:SI:91:GLN:HE21	1.47	0.80
44:TA:89:PRO:HG3	44:UA:280:LYS:HD2	1.64	0.80
44:TC:84:ARG:NH1	44:TC:85:GLN:HG2	1.96	0.80
44:TI:243:ARG:NH1	44:TI:358:GLN:HG2	1.94	0.80
44:UA:269:LEU:O	44:UA:379:SER:OG	1.99	0.80
44:UA:434:GLU:O	44:UA:437:ILE:HG12	1.81	0.80
45:UF:124:ALA:HA	45:UF:130:LEU:HD22	1.63	0.80
44:VE:211:ASP:OD1	44:VE:214:ARG:NH2	2.15	0.80
45:VH:317:PHE:HB2	45:VH:353:ILE:HD13	1.64	0.80
44:VM:391:LEU:O	44:VM:395:PHE:N	2.13	0.80
45:WB:237:THR:O	45:WB:241:ARG:HG3	1.81	0.80
20:1J:247:PRO:HA	44:II:219:ILE:CD1	2.11	0.80
37:5D:26:LYS:HD2	45:KN:398:TYR:CD2	2.16	0.80
37:5D:118:PRO:HD3	44:NM:355:ILE:HG22	1.64	0.80
38:5F:154:TYR:OH	45:NH:36:TYR:N	2.14	0.80
35:6R:436:GLU:OE1	45:FN:280:GLN:CG	2.27	0.80
44:AA:337:THR:O	44:AA:339:ARG:NH1	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:109:THR:OG1	44:BA:411:GLU:OE1	2.00	0.80
44:BA:317:MET:HE2	44:BA:375:VAL:HG11	1.62	0.80
45:BF:32:PRO:HG3	45:BF:81:PHE:CE1	2.16	0.80
44:BG:76:ASP:OD2	45:BH:46:ARG:NH2	2.15	0.80
44:BK:259:LEU:HD21	44:BK:316:SER:HB3	1.64	0.80
44:CC:205:ASP:OD1	44:CC:303:ALA:HA	1.82	0.80
44:CI:174:SER:HB3	44:CI:207:GLU:HB2	1.62	0.80
44:DG:315:CYS:N	44:DG:350:GLY:O	2.14	0.80
44:DI:344:VAL:CG1	44:DI:347:CYS:HB3	2.11	0.80
44:DK:352:LYS:HE2	45:DL:178:THR:OG1	1.82	0.80
45:DL:67:ASP:OD1	45:DL:68:LEU:N	2.14	0.80
45:EH:42:LEU:HA	45:EH:45:GLU:HG3	1.64	0.80
45:EH:252:LYS:HG2	45:EH:350:LYS:HE2	1.63	0.80
44:EI:37:PRO:HG2	44:EI:40:LYS:H	1.46	0.80
45:EN:40:SER:O	45:EN:43:GLN:HG2	1.81	0.80
44:FC:296:PHE:HA	44:FC:301:MET:HE1	1.63	0.80
45:FD:313:ALA:HB3	45:FD:349:ILE:HA	1.64	0.80
45:GJ:210:ILE:HD11	45:GJ:300:MET:HG3	1.62	0.80
45:IB:97:ALA:HA	45:IB:103:LYS:HE3	1.64	0.80
44:IE:242:LEU:HD21	44:IE:252:ILE:HG12	1.61	0.80
44:IG:10:GLY:O	44:IG:14:ILE:HG13	1.80	0.80
44:II:73:THR:OG1	45:IJ:247:ASN:ND2	2.14	0.80
44:JM:49:PHE:CZ	44:JM:55:GLU:HB2	2.15	0.80
44:JM:205:ASP:OD2	44:JM:304:LYS:N	2.11	0.80
44:KC:88:HIS:CE1	44:KC:90:GLU:HG2	2.16	0.80
45:KH:200:MET:HG3	45:KH:266:PHE:HB2	1.63	0.80
44:LC:115:VAL:HG21	44:LC:152:LEU:HD23	1.64	0.80
45:LF:290:THR:CG2	45:LF:329:GLN:HE21	1.95	0.80
45:LH:62:ARG:NH2	45:LH:127:CYS:SG	2.55	0.80
44:MC:188:ILE:HG13	44:MC:425:LEU:HD12	1.64	0.80
44:MC:271:SER:OG	44:MC:301:MET:SD	2.40	0.80
44:ME:66:VAL:HG21	44:ME:122:ILE:HD11	1.62	0.80
45:NB:310:TYR:HA	45:NB:371:SER:OG	1.80	0.80
45:ND:178:THR:HB	45:ND:181:GLU:HG3	1.64	0.80
44:NM:101:ASN:HA	44:NM:144:GLY:H	1.46	0.80
45:OH:275:SER:H	45:OH:278:SER:HB2	1.46	0.80
44:OM:422:ARG:O	44:OM:426:ALA:N	2.10	0.80
44:PA:141:VAL:HG22	44:PA:187:SER:HA	1.63	0.80
45:PF:296:ALA:HA	45:PF:299:MET:CE	2.11	0.80
45:PL:325:GLU:HA	45:PL:328:GLU:HG2	1.64	0.80
45:QB:253:LEU:HD21	45:QB:316:LEU:HD21	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:418:LEU:O	45:QH:422:TYR:N	2.13	0.80
45:QJ:426:GLN:NE2	45:QJ:427:ASP:OD2	2.15	0.80
44:RA:184:PRO:O	44:RA:187:SER:OG	1.99	0.80
44:RE:414:GLU:HB2	44:RE:417:GLU:HG2	1.63	0.80
45:RH:267:MET:HB2	45:RH:301:CYS:HB2	1.63	0.80
44:SG:205:ASP:OD1	44:SG:304:LYS:N	2.14	0.80
45:SJ:318:ARG:HG2	45:SJ:354:CYS:HB3	1.63	0.80
44:SM:276:ILE:HD12	44:SM:281:ALA:HB2	1.64	0.80
44:TE:54:SER:OG	44:TE:62:VAL:O	2.00	0.80
45:TL:51:TYR:HE1	45:TL:61:PRO:HG3	1.45	0.80
45:TL:317:PHE:HB3	45:TL:321:MET:HE1	1.63	0.80
44:UC:437:ILE:O	45:UD:391:ARG:NH1	2.13	0.80
45:UF:318:ARG:HB3	45:UF:358:PRO:HD3	1.63	0.80
44:UI:239:THR:O	44:UI:243:ARG:NE	2.13	0.80
44:VA:63:PRO:HG2	44:VA:86:LEU:HG	1.61	0.80
45:VD:22:GLU:HG2	45:VD:81:PHE:HB2	1.61	0.80
45:VH:144:GLY:N	48:VH:501:GDP:O1B	2.09	0.80
45:VN:246:LEU:HD13	45:VN:353:ILE:HD13	1.63	0.80
44:WG:224:TYR:HE2	45:WH:246:LEU:HD11	1.46	0.80
44:WI:209:ILE:CD1	44:WI:227:LEU:HD22	2.12	0.80
44:WK:175:PRO:HG3	44:WK:304:LYS:CE	2.12	0.80
45:WL:387:ALA:HA	45:WL:390:ARG:HE	1.46	0.80
44:WM:246:GLY:HA2	44:WM:357:TYR:CE2	2.16	0.80
45:WN:178:THR:O	45:WN:181:GLU:HG3	1.82	0.80
5:2D:84:SER:HB2	45:EJ:355:ASP:HB3	1.64	0.80
5:2D:94:ASN:HB3	44:EK:364:PRO:HG3	1.61	0.80
6:2E:119:ASP:O	35:5R:579:ASN:ND2	2.14	0.80
12:3S:44:LYS:HB2	11:5Q:4:ASN:ND2	1.95	0.80
12:3S:152:SER:HA	45:WN:95:THR:HG21	1.62	0.80
37:5D:34:PHE:CZ	44:KK:431:ASP:N	1.76	0.80
42:8L:126:UNK:O	42:8L:130:UNK:N	2.15	0.80
45:AN:309:ARG:N	45:AN:372:THR:OG1	2.12	0.80
45:BN:73:MET:O	45:BN:76:VAL:HG12	1.82	0.80
44:CA:102:ASN:HD22	44:CA:105:ARG:HG3	1.45	0.80
44:CA:314:ALA:H	44:CA:380:ASN:HB3	1.45	0.80
44:CG:66:VAL:HG11	44:CG:122:ILE:HD11	1.63	0.80
45:DD:132:GLY:HA3	45:DD:163:ILE:CG1	2.10	0.80
45:EB:25:SER:HG	45:EB:51:TYR:HH	1.25	0.80
45:EH:144:GLY:N	48:EH:501:GDP:O1B	2.15	0.80
44:FA:171:ILE:HG12	44:FA:204:LEU:CB	2.12	0.80
44:FA:259:LEU:HD21	44:FA:316:SER:CB	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:214:THR:CG2	45:FB:297:LYS:HE2	2.11	0.80
45:FB:240:LEU:HD12	45:FB:249:ASP:HA	1.63	0.80
44:FC:326:LYS:HG2	45:FF:212:PHE:HE2	1.46	0.80
45:FF:257:LEU:HD21	45:FF:368:VAL:HG13	1.64	0.80
45:FH:274:THR:HG21	45:FH:282:ARG:HE	1.47	0.80
44:FI:284:GLU:HG3	44:FI:286:LEU:CD1	2.12	0.80
44:FK:201:ALA:O	44:FK:268:MET:N	2.14	0.80
44:FK:216:ASN:ND2	44:FK:275:ILE:O	2.15	0.80
45:GB:268:ILE:HD11	45:GB:366:THR:HG22	1.64	0.80
45:GD:135:ILE:HB	45:GD:166:THR:HG22	1.63	0.80
44:GI:216:ASN:HB3	44:GI:275:ILE:HG22	1.64	0.80
44:GK:71:GLU:OE1	44:GK:73:THR:N	2.15	0.80
44:GK:223:THR:HG22	45:GL:322:SER:CA	2.08	0.80
44:GK:325:PRO:HG3	44:GK:355:ILE:HD13	1.64	0.80
45:GL:31:ASP:OD2	45:GL:37:HIS:ND1	2.15	0.80
45:HJ:68:LEU:HD12	45:HJ:143:THR:OG1	1.81	0.80
44:HK:101:ASN:HB2	45:HL:252:LYS:HZ3	1.46	0.80
44:II:402:ARG:HB2	44:II:405:VAL:HG21	1.62	0.80
44:IK:174:SER:OG	44:IK:206:ASN:OD1	1.99	0.80
44:JA:88:HIS:CE1	44:JA:90:GLU:HG2	2.16	0.80
44:JA:199:ASP:O	44:JA:266:HIS:HB2	1.80	0.80
44:LA:69:ASP:OD1	44:LA:70:LEU:N	2.15	0.80
44:LA:338:LYS:HE3	44:LA:338:LYS:HA	1.62	0.80
44:LE:217:LEU:HD11	44:LE:275:ILE:HG22	1.64	0.80
45:LF:2:ARG:HB2	45:LF:131:GLN:HE21	1.47	0.80
44:LM:145:THR:N	46:LM:501:GTP:O2G	2.14	0.80
44:MM:307:PRO:HB2	44:MM:312:TYR:OH	1.82	0.80
44:NE:238:LEU:HD12	44:NE:378:ILE:HG13	1.63	0.80
44:NI:311:LYS:HD3	44:NI:344:VAL:HA	1.64	0.80
45:NJ:200:MET:SD	45:NJ:266:PHE:HB2	2.22	0.80
44:NM:222:PRO:O	45:NN:322:SER:HB2	1.82	0.80
45:OB:68:LEU:HB3	45:OB:96:GLY:HA2	1.63	0.80
45:OD:60:VAL:HG21	45:OD:86:ARG:HG3	1.63	0.80
45:OJ:260:PHE:HB3	45:OJ:261:PRO:HD2	1.64	0.80
45:OL:330:MET:HE3	45:OL:349:ILE:HG21	1.62	0.80
44:OM:429:GLU:HA	44:OM:432:TYR:HD2	1.46	0.80
45:ON:318:ARG:HD3	45:ON:358:PRO:HG3	1.64	0.80
45:ON:383:GLU:O	45:ON:387:ALA:N	2.11	0.80
45:PH:330:MET:HE3	45:PH:349:ILE:HB	1.64	0.80
44:PI:398:MET:SD	44:PI:403:ALA:HB3	2.22	0.80
45:QJ:318:ARG:HH11	45:QJ:358:PRO:HG3	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:55:GLU:HG3	44:RE:57:GLY:H	1.47	0.80
44:RM:118:CYS:HA	44:RM:121:ARG:HB2	1.64	0.80
44:SC:21:TRP:O	44:SC:25:CYS:N	2.09	0.80
45:SF:110:ALA:O	45:SF:113:ILE:HG22	1.82	0.80
45:SJ:320:ARG:O	45:SJ:321:MET:HG2	1.82	0.80
45:SL:67:ASP:OD1	45:SL:68:LEU:N	2.13	0.80
45:TL:315:ALA:O	45:TL:352:SER:N	2.15	0.80
45:UB:61:PRO:CD	45:UB:84:LEU:HB3	2.12	0.80
44:UC:70:LEU:HA	44:UC:95:GLY:HA3	1.63	0.80
45:UD:285:THR:O	45:UD:289:LEU:N	2.11	0.80
45:UD:318:ARG:NH2	45:UD:356:ILE:O	2.13	0.80
45:UF:372:THR:HA	45:UF:422:TYR:CE2	2.17	0.80
44:VA:224:TYR:HE2	45:VB:246:LEU:HD11	1.44	0.80
45:VD:134:GLN:HA	45:VD:165:GLU:O	1.81	0.80
45:VD:287:PRO:HG3	45:VD:329:GLN:HE22	1.46	0.80
44:VE:214:ARG:HG2	44:VE:215:ARG:NH1	1.96	0.80
44:VK:404:PHE:CE1	45:VL:259:PRO:HA	2.17	0.80
45:VL:133:PHE:O	45:VL:165:GLU:N	2.14	0.80
44:WE:241:SER:OG	44:WE:250:VAL:O	1.98	0.80
44:WG:278:ALA:HB2	44:WG:369:ALA:HB2	1.63	0.80
45:WJ:199:CYS:HB3	45:WJ:265:PHE:CD1	2.17	0.80
44:WK:284:GLU:HG3	44:WK:286:LEU:HD22	1.64	0.80
45:WN:315:ALA:N	45:WN:350:LYS:O	2.14	0.80
1:6H:382:PHE:CD1	44:FK:364:PRO:HG3	2.16	0.80
5:0D:93:GLN:OE1	44:EC:32:PRO:HD2	1.82	0.80
24:2O:181:MET:SD	45:VL:276:ARG:HB2	2.22	0.80
11:2Q:115:LYS:NZ	44:AE:196:GLU:OE2	2.15	0.80
37:5D:107:TYR:HB3	44:NM:279:GLU:H	1.44	0.80
38:5G:110:ARG:HE	38:5G:111:ASN:H	1.27	0.80
41:6G:276:PRO:HD3	41:6G:284:LYS:HD3	1.61	0.80
35:6R:28:THR:HB	44:LK:46:ASP:CB	2.10	0.80
35:6R:550:VAL:HG22	35:6R:554:LYS:HE3	1.64	0.80
42:8L:52:UNK:O	42:8L:56:UNK:N	2.15	0.80
44:AA:51:THR:HG23	44:AA:52:PHE:HD1	1.46	0.80
45:AJ:289:LEU:HD12	45:AJ:363:MET:CE	2.12	0.80
45:BF:256:ASN:HD22	45:BF:350:LYS:HD2	1.47	0.80
45:BL:55:THR:HG21	45:CJ:362:LYS:HZ3	1.43	0.80
44:CA:213:CYS:HB3	44:CA:219:ILE:HB	1.64	0.80
45:CB:311:LEU:O	45:CB:348:ASN:ND2	2.14	0.80
45:CF:200:MET:CG	45:CF:266:PHE:HB2	2.12	0.80
45:CJ:310:TYR:CD1	45:CJ:371:SER:HB2	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:140:GLY:O	45:CL:184:ASN:ND2	2.14	0.80
45:DD:6:HIS:NE2	45:DD:8:GLN:OE1	2.15	0.80
45:DD:73:MET:HE1	45:DD:92:PHE:HB3	1.64	0.80
44:DG:68:LEU:HD11	44:DG:118:CYS:SG	2.22	0.80
45:EB:19:LYS:HG2	45:EB:227:HIS:HA	1.62	0.80
45:FB:260:PHE:HB2	45:FB:263:LEU:HD13	1.62	0.80
45:FD:100:ASN:ND2	45:FD:401:GLU:OE1	2.14	0.80
44:FG:274:PRO:HB2	44:FG:276:ILE:CD1	2.12	0.80
45:FH:325:GLU:HB3	45:FH:327:ASP:N	1.97	0.80
44:FK:310:GLY:HA3	44:FK:383:ALA:HB2	1.61	0.80
45:GD:295:ASP:OD2	45:GD:297:LYS:NZ	2.14	0.80
44:GE:60:LYS:NZ	44:GE:85:GLN:O	2.15	0.80
45:GF:309:ARG:NH2	45:GF:341:PHE:O	2.14	0.80
45:GH:113:ILE:HD13	45:GH:150:LEU:CD2	2.12	0.80
44:GK:34:GLY:O	44:GK:60:LYS:HA	1.82	0.80
44:GM:319:TYR:N	44:GM:354:GLY:O	2.14	0.80
44:HC:90:GLU:OE1	44:IC:280:LYS:NZ	2.13	0.80
45:HN:267:MET:HB2	45:HN:299:MET:HE2	1.64	0.80
45:IB:389:PHE:HB3	45:IB:390:ARG:NH2	1.97	0.80
45:IF:68:LEU:HD11	45:IF:108:GLU:HG3	1.63	0.80
45:IF:276:ARG:NH2	45:IF:279:GLN:OE1	2.14	0.80
44:IG:55:GLU:HG3	44:IG:57:GLY:H	1.47	0.80
44:JE:257:THR:HA	45:JH:397:TRP:CE2	2.16	0.80
44:JE:413:MET:HE3	44:JE:417:GLU:HB2	1.61	0.80
44:JG:192:HIS:NE2	44:JG:424:ASP:OD2	2.14	0.80
44:JM:101:ASN:ND2	46:JM:501:GTP:O1G	2.13	0.80
44:KA:72:PRO:HD2	45:KB:2:ARG:HH21	1.46	0.80
44:KC:256:GLN:NE2	44:KC:257:THR:HG23	1.97	0.80
45:KD:269:GLY:HA2	45:KD:300:MET:HE2	1.63	0.80
45:KH:8:GLN:HE22	45:KH:17:GLY:HA3	1.46	0.80
44:KM:101:ASN:HA	44:KM:144:GLY:HA3	1.63	0.80
44:KM:306:ASP:HB3	44:KM:309:HIS:NE2	1.96	0.80
45:LB:68:LEU:HD12	45:LB:97:ALA:HB2	1.64	0.80
44:LI:176:GLN:NE2	44:LI:207:GLU:OE2	2.15	0.80
44:LM:289:ALA:O	44:LM:293:ASN:ND2	2.14	0.80
44:MA:326:LYS:HG3	45:MD:212:PHE:HZ	1.46	0.80
45:MB:370:ASN:OD1	45:MB:422:TYR:OH	1.98	0.80
45:MD:117:LEU:HD22	45:MD:154:LYS:HD2	1.63	0.80
45:NB:207:LEU:HB3	45:NB:225:LEU:HD22	1.61	0.80
45:NB:330:MET:HA	45:NB:333:VAL:HG12	1.64	0.80
44:NC:217:LEU:HA	44:NC:277:SER:OG	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:340:THR:HG23	44:NC:341:ILE:HG12	1.62	0.80
45:NH:309:ARG:HH12	45:NH:427:ASP:HA	1.45	0.80
44:NI:155:GLU:HG2	44:NI:197:HIS:CE1	2.16	0.80
44:OA:141:VAL:CG2	44:OA:187:SER:HA	2.12	0.80
45:OL:314:SER:OG	45:OL:368:VAL:O	1.98	0.80
44:OM:102:ASN:ND2	44:OM:105:ARG:HD3	1.96	0.80
45:PB:296:ALA:HB1	45:PB:305:PRO:HD2	1.63	0.80
44:PC:76:ASP:OD1	44:PC:79:ARG:NH2	2.15	0.80
45:PL:4:ILE:HB	45:PL:132:GLY:O	1.82	0.80
45:PN:55:THR:OG1	45:QL:282:ARG:O	1.99	0.80
45:PN:381:VAL:HA	45:PN:384:GLN:HG2	1.63	0.80
45:QD:99:ASN:HA	45:QD:142:GLY:HA3	1.63	0.80
45:QD:132:GLY:HA3	45:QD:163:ILE:HG13	1.62	0.80
45:QD:342:VAL:HG13	45:QD:345:ILE:HG22	1.62	0.80
44:QE:434:GLU:OE2	45:QF:391:ARG:NH2	2.14	0.80
44:RA:102:ASN:OD1	44:RA:105:ARG:N	2.14	0.80
44:RC:105:ARG:O	44:RC:110:ILE:HG12	1.82	0.80
44:RE:288:VAL:O	44:RE:292:THR:HG23	1.82	0.80
45:RF:221:THR:HG23	45:RF:224:ASP:H	1.44	0.80
45:RH:46:ARG:NH2	44:RI:76:ASP:OD2	2.15	0.80
45:RJ:200:MET:HG2	45:RJ:266:PHE:HB2	1.61	0.80
45:RL:25:SER:HB3	45:RL:30:ILE:HB	1.64	0.80
44:SC:203:MET:HG3	44:SC:384:ILE:HD11	1.62	0.80
45:SD:21:TRP:CH2	45:SD:63:ALA:HB2	2.17	0.80
45:SF:73:MET:HE3	45:SF:92:PHE:HB3	1.63	0.80
44:SI:320:ARG:N	44:SI:374:ALA:O	2.12	0.80
44:TE:88:HIS:HE1	44:TE:90:GLU:HG2	1.46	0.80
44:TI:388:PHE:O	44:TI:392:ASP:N	2.10	0.80
45:TN:254:ALA:O	45:TN:258:ILE:HB	1.82	0.80
45:TN:257:LEU:CD1	45:TN:314:SER:HB2	2.10	0.80
45:UB:245:GLN:OE1	44:UC:15:GLN:NE2	2.13	0.80
45:UB:317:PHE:N	45:UB:352:SER:O	2.15	0.80
45:UF:268:ILE:HG22	45:UF:368:VAL:HG22	1.61	0.80
45:UH:344:TRP:CZ3	45:UH:345:ILE:HB	2.17	0.80
45:VB:86:ARG:HD2	45:VB:87:PRO:CD	2.11	0.80
45:VN:61:PRO:CG	45:VN:84:LEU:HB3	2.12	0.80
45:VN:183:TYR:HE2	45:VN:394:PHE:HB2	1.45	0.80
44:WC:221:ARG:HH12	45:WD:286:VAL:HG21	1.47	0.80
5:2D:27:ILE:HD13	45:DJ:39:ASP:HB3	1.63	0.80
38:5H:123:ARG:NE	44:OM:372:MET:SD	2.54	0.80
39:5K:91:SER:HB2	44:JM:430:LYS:HE2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:127:ILE:HD11	35:5R:150:ILE:HD12	1.64	0.80
35:7R:222:PRO:HB3	35:7R:224:ASN:HB2	1.63	0.80
45:BJ:390:ARG:NH1	45:BJ:391:ARG:HD3	1.97	0.80
45:CB:273:LEU:O	45:CB:282:ARG:NH1	2.15	0.80
44:CC:256:GLN:HG2	45:CD:397:TRP:CE3	2.16	0.80
45:CF:360:GLY:O	45:CF:361:LEU:HD23	1.82	0.80
44:CK:301:MET:HE3	44:CK:307:PRO:HG3	1.61	0.80
45:CN:66:MET:HA	45:CN:91:VAL:HG23	1.62	0.80
45:DD:164:MET:HE3	45:DD:197:ASP:N	1.97	0.80
45:DF:258:ILE:HB	44:DG:407:TRP:CH2	2.17	0.80
45:DJ:221:THR:HG23	45:DJ:224:ASP:H	1.45	0.80
44:EG:54:SER:HB3	44:EG:64:ARG:NH2	1.97	0.80
44:EI:386:GLU:O	44:EI:390:ARG:HG2	1.82	0.80
45:EJ:342:VAL:HG13	45:EJ:345:ILE:HG22	1.64	0.80
45:EL:323:THR:CG2	44:EM:223:THR:HA	2.12	0.80
44:EM:333:ALA:O	44:EM:337:THR:N	2.15	0.80
44:FC:70:LEU:HB3	44:FC:97:GLU:O	1.80	0.80
45:FH:67:ASP:OD1	45:FH:68:LEU:N	2.15	0.80
44:FI:284:GLU:HG3	44:FI:286:LEU:HD11	1.64	0.80
45:GB:42:LEU:O	45:GB:45:GLU:HG3	1.82	0.80
45:GD:257:LEU:HA	45:GD:312:THR:HG21	1.64	0.80
45:GF:113:ILE:HG21	45:GF:150:LEU:HD22	1.63	0.80
45:GF:207:LEU:HB3	45:GF:225:LEU:HD12	1.63	0.80
45:GN:97:ALA:CB	45:GN:143:THR:HB	2.11	0.80
44:HE:76:ASP:OD1	44:HE:79:ARG:NH2	2.14	0.80
45:HN:319:GLY:HA2	45:HN:357:PRO:HG3	1.62	0.80
45:IH:288:GLU:O	45:IH:291:GLN:HG3	1.82	0.80
45:IL:173:PRO:CG	45:IL:380:ARG:HD3	2.11	0.80
45:IN:268:ILE:HG22	45:IN:368:VAL:HG22	1.64	0.80
44:JM:31:GLN:HG2	44:JM:37:PRO:HD3	1.62	0.80
45:JN:182:PRO:O	45:JN:186:THR:HG23	1.81	0.80
45:KB:205:GLU:OE1	45:KB:205:GLU:N	2.13	0.80
44:KI:407:TRP:CZ2	45:KJ:258:ILE:HD11	2.16	0.80
45:MJ:238:CYS:SG	45:MJ:318:ARG:NE	2.54	0.80
44:NM:276:ILE:CB	44:NM:369:ALA:HB3	2.12	0.80
44:OA:314:ALA:H	44:OA:380:ASN:HB3	1.46	0.80
45:OL:97:ALA:CB	45:OL:143:THR:HB	2.12	0.80
44:OM:80:THR:O	44:OM:84:ARG:NH1	2.14	0.80
45:ON:86:ARG:HA	45:PN:281:TYR:CE1	2.17	0.80
45:PD:168:SER:O	45:PD:202:ILE:N	2.13	0.80
45:PJ:248:SER:HA	45:PJ:252:LYS:HD2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:325:PRO:HG2	45:QD:222:TYR:CE2	2.17	0.80
44:QG:242:LEU:CD2	44:QG:251:ASP:HA	2.10	0.80
45:QH:40:SER:N	45:QH:43:GLN:OE1	2.13	0.80
44:QI:174:SER:HB2	44:QI:177:VAL:O	1.81	0.80
44:QM:258:ASN:HD22	44:QM:352:LYS:HD3	1.45	0.80
44:RC:280:LYS:HA	44:RC:283:HIS:HD2	1.46	0.80
45:RD:200:MET:CE	45:RD:268:ILE:HG12	2.11	0.80
45:RL:399:THR:HA	45:RL:403:MET:O	1.82	0.80
45:TF:217:LEU:HD12	45:TF:220:PRO:HD3	1.61	0.80
44:TI:291:ILE:O	44:TI:294:SER:OG	1.97	0.80
44:UE:206:ASN:HB3	44:UE:210:TYR:CZ	2.16	0.80
45:UF:174:LYS:HE2	45:UF:205:GLU:CB	2.11	0.80
45:UH:243:PRO:HA	44:UI:73:THR:CG2	2.12	0.80
45:UH:257:LEU:HD21	45:UH:314:SER:HB3	1.61	0.80
45:UH:395:LEU:O	45:UH:399:THR:OG1	2.00	0.80
44:UI:287:SER:HB3	44:UI:290:GLU:HG2	1.63	0.80
44:UI:356:ASN:OD1	44:UI:357:TYR:N	2.15	0.80
45:VB:135:ILE:HB	45:VB:166:THR:HG22	1.64	0.80
45:VD:14:ASN:OD1	45:VD:15:GLN:N	2.14	0.80
44:VM:13:GLY:O	44:VM:17:GLY:N	2.14	0.80
44:WA:22:GLU:OE1	44:WA:22:GLU:N	2.14	0.80
20:1J:198:ARG:HA	44:IG:370:LYS:HG3	1.62	0.80
25:1P:287:ARG:HH12	44:TE:367:ASP:HA	1.43	0.80
15:1V:171:ASN:OD1	44:MK:402:ARG:NH2	2.14	0.80
36:5S:207:SER:OG	45:WH:88:ASP:OD2	1.99	0.80
35:6R:246:GLN:NE2	44:BM:59:GLY:N	2.30	0.80
35:7R:129:VAL:HG21	35:7R:145:ILE:HD12	1.62	0.80
44:AC:188:ILE:HD12	44:AC:425:LEU:HD22	1.63	0.80
45:CB:105:HIS:HB2	45:CB:146:GLY:CA	2.12	0.80
45:CD:318:ARG:HD3	45:CD:358:PRO:HG3	1.63	0.80
44:CE:216:ASN:ND2	44:CE:275:ILE:O	2.14	0.80
45:DB:318:ARG:HH11	45:DB:358:PRO:HG3	1.46	0.80
45:DF:245:GLN:HB3	45:DF:246:LEU:HD12	1.63	0.80
45:DF:347:ASN:HD22	44:DG:178:SER:HB3	1.46	0.80
45:DH:91:VAL:HG21	45:DH:116:VAL:HB	1.64	0.80
45:DL:3:GLU:HG3	45:DL:49:VAL:HA	1.63	0.80
44:EC:140:SER:OG	46:EC:501:GTP:O2A	1.99	0.80
44:EG:209:ILE:HA	44:EG:212:ILE:HB	1.62	0.80
45:EN:86:ARG:HB3	45:EN:89:ASN:HD22	1.46	0.80
45:EN:135:ILE:HB	45:EN:166:THR:HG22	1.63	0.80
45:FH:133:PHE:O	45:FH:165:GLU:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:103:PHE:HB2	44:FM:186:ASN:HB3	1.62	0.80
45:GJ:1:MET:O	45:GJ:2:ARG:HG2	1.81	0.80
45:HB:311:LEU:O	45:HB:348:ASN:ND2	2.15	0.80
45:HH:1:MET:O	45:HH:2:ARG:HG2	1.82	0.80
45:HJ:201:VAL:O	45:HJ:202:ILE:HD13	1.82	0.80
44:HK:203:MET:HG3	44:HK:384:ILE:HD11	1.63	0.80
44:HK:270:SER:O	44:HK:302:MET:HG2	1.81	0.80
45:IB:240:LEU:HD23	45:IB:241:ARG:HG3	1.64	0.80
45:ID:4:ILE:HD12	45:ID:134:GLN:HB2	1.63	0.80
45:IF:208:TYR:CZ	45:IF:225:LEU:HD11	2.17	0.80
44:IG:89:PRO:HD3	45:JH:281:TYR:CD2	2.16	0.80
44:II:294:SER:O	44:II:297:GLU:HG2	1.81	0.80
44:JI:210:TYR:HE1	44:JI:227:LEU:HD11	1.47	0.80
44:JM:33:ASP:HA	44:JM:85:GLN:HE21	1.44	0.80
44:KG:324:VAL:HG22	44:KG:326:LYS:HE3	1.63	0.80
45:KH:328:GLU:HG3	45:KH:329:GLN:HE21	1.44	0.80
45:KJ:330:MET:HB3	45:KJ:349:ILE:CD1	2.12	0.80
44:KK:241:SER:OG	44:KK:250:VAL:O	1.99	0.80
45:KL:55:THR:HG23	45:LL:283:ALA:HA	1.62	0.80
44:LC:268:MET:HE1	44:LC:378:ILE:HG22	1.61	0.80
45:LD:62:ARG:NE	45:LD:123:GLU:OE2	2.13	0.80
44:MI:222:PRO:HG2	45:MJ:324:LYS:HD3	1.62	0.80
44:MI:408:TYR:O	44:MI:413:MET:HB3	1.82	0.80
44:NA:426:ALA:O	44:NA:430:LYS:N	2.14	0.80
44:NI:329:ASN:HB3	45:NL:175:VAL:CG1	2.12	0.80
45:NN:377:MET:HA	45:NN:380:ARG:NH1	1.95	0.80
45:OF:377:MET:SD	45:OF:380:ARG:NH1	2.55	0.80
44:OI:76:ASP:OD2	45:OJ:46:ARG:NH2	2.15	0.80
44:PC:258:ASN:HA	45:PF:179:VAL:HG21	1.63	0.80
44:PE:17:GLY:O	44:PE:20:CYS:N	2.14	0.80
45:PF:293:MET:HG3	45:PF:294:PHE:HD1	1.47	0.80
45:PL:203:ASP:OD2	45:PL:302:ALA:N	2.14	0.80
45:PL:299:MET:HG3	45:PL:305:PRO:HG3	1.64	0.80
44:QA:172:TYR:HH	44:QA:191:THR:HG1	1.20	0.80
45:QB:12:CYS:HB3	45:QB:138:SER:HB2	1.63	0.80
45:QD:309:ARG:O	45:QD:371:SER:OG	1.98	0.80
45:QF:97:ALA:CB	45:QF:143:THR:HB	2.12	0.80
45:QJ:237:THR:HG23	45:QJ:241:ARG:HH12	1.46	0.80
45:QL:319:GLY:HA2	45:QL:357:PRO:HD3	1.63	0.80
45:QN:10:GLY:O	45:QN:14:ASN:N	2.11	0.80
44:RA:71:GLU:OE2	44:RA:73:THR:OG1	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:374:ILE:HA	45:RD:377:MET:CE	2.12	0.80
45:RJ:182:PRO:HG2	45:RJ:388:MET:CE	2.11	0.80
45:RN:65:LEU:HD21	45:RN:76:VAL:HG21	1.63	0.80
44:SI:131:GLY:O	44:SI:133:GLN:NE2	2.15	0.80
45:SJ:151:LEU:O	45:SJ:155:VAL:HG23	1.82	0.80
44:SM:316:SER:OG	44:SM:352:LYS:NZ	2.14	0.80
44:TC:76:ASP:OD1	44:TC:79:ARG:NH2	2.15	0.80
45:TL:287:PRO:HA	45:TL:290:THR:HG22	1.64	0.80
45:TL:323:THR:HG23	44:TM:223:THR:OG1	1.82	0.80
45:TN:21:TRP:O	45:TN:25:SER:N	2.12	0.80
45:TN:64:ILE:HA	45:TN:89:ASN:HB3	1.61	0.80
45:TN:257:LEU:CD1	45:TN:350:LYS:HD3	2.11	0.80
44:UA:377:MET:HE2	44:UA:379:SER:HB3	1.63	0.80
45:UD:200:MET:HA	45:UD:266:PHE:O	1.82	0.80
45:UJ:117:LEU:O	45:UJ:121:ARG:N	2.14	0.80
44:VI:385:ALA:O	44:VI:389:SER:N	2.14	0.80
45:VL:107:THR:HG21	45:VL:401:GLU:HB3	1.64	0.80
45:WD:61:PRO:HD2	45:WD:84:LEU:O	1.81	0.80
45:WD:113:ILE:CD1	45:WD:150:LEU:HD22	2.12	0.80
45:WD:177:ASP:N	45:WD:181:GLU:OE2	2.14	0.80
45:WJ:68:LEU:HD21	45:WJ:147:MET:HG3	1.62	0.80
45:WN:223:GLY:HA2	45:WN:226:ASN:HD22	1.46	0.80
22:1L:871:ILE:CD1	45:CB:357:PRO:HG3	2.11	0.80
26:2R:407:PHE:CD2	44:DG:58:ALA:HB3	2.16	0.80
38:5F:133:PRO:HG2	38:5F:136:LEU:HD13	1.64	0.80
39:5J:103:GLN:OE1	45:JJ:390:ARG:NH1	2.15	0.80
41:6G:190:THR:HG23	41:6G:193:GLN:H	1.46	0.80
11:6Q:7:GLN:HB3	11:6Q:73:LEU:HD21	1.63	0.80
35:6R:12:LEU:C	45:LN:227:HIS:NE2	2.35	0.80
35:6R:288:LYS:HZ3	44:CM:45:GLY:N	1.78	0.80
35:7R:593:ASP:OD2	35:7R:598:TRP:N	2.15	0.80
44:BA:407:TRP:CE3	45:BB:255:VAL:HG22	2.17	0.80
45:BF:97:ALA:HB3	45:BF:143:THR:HB	1.64	0.80
45:BH:113:ILE:HD13	45:BH:150:LEU:CD2	2.11	0.80
44:BI:141:VAL:HG11	44:BI:172:TYR:CD1	2.17	0.80
44:BK:188:ILE:HG23	44:BK:425:LEU:CD1	2.12	0.80
45:CD:256:ASN:HD21	44:CE:180:ALA:HA	1.45	0.80
45:CH:99:ASN:HA	45:CH:142:GLY:HA3	1.64	0.80
45:CH:251:ARG:HH12	44:CI:105:ARG:HD2	1.47	0.80
45:CN:25:SER:HB3	45:CN:30:ILE:O	1.81	0.80
44:DE:111:GLY:HA3	44:DE:149:LEU:HD21	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:161:TYR:HB3	44:EA:164:LYS:HG3	1.62	0.80
45:EF:320:ARG:NH1	45:EF:357:PRO:HD3	1.97	0.80
45:EJ:22:GLU:HG2	45:EJ:81:PHE:HB2	1.63	0.80
44:EK:71:GLU:OE2	44:EK:73:THR:HG23	1.82	0.80
45:EN:100:ASN:O	45:EN:104:GLY:N	2.15	0.80
45:EN:136:THR:HG22	45:EN:167:PHE:HB2	1.63	0.80
45:FB:86:ARG:HB2	45:FB:89:ASN:HD22	1.47	0.80
44:FI:221:ARG:NH1	45:FJ:322:SER:HB3	1.96	0.80
44:FM:147:SER:HB2	44:FM:190:SER:HB3	1.63	0.80
45:FN:210:ILE:O	45:FN:214:THR:N	2.12	0.80
44:GA:311:LYS:HE3	44:GA:344:VAL:HA	1.61	0.80
44:GA:326:LYS:O	44:GA:329:ASN:N	2.13	0.80
44:GK:141:VAL:HG22	44:GK:187:SER:HA	1.64	0.80
45:HL:7:ILE:HB	45:HL:135:ILE:HD12	1.64	0.80
45:IN:130:LEU:HD21	45:IN:133:PHE:CE1	2.17	0.80
44:KC:221:ARG:NH1	45:KD:325:GLU:HB2	1.94	0.80
45:KD:178:THR:HG22	45:KD:180:VAL:HG12	1.64	0.80
45:KN:32:PRO:HG3	45:KN:81:PHE:HE1	1.45	0.80
44:LA:294:SER:HA	44:LA:297:GLU:HG3	1.64	0.80
44:LK:11:GLN:NE2	45:LL:245:GLN:O	2.14	0.80
45:LL:215:LEU:HD21	45:LL:273:LEU:HD11	1.64	0.80
44:NA:256:GLN:OE1	44:NA:256:GLN:N	2.15	0.80
45:NB:87:PRO:HA	45:NB:90:PHE:HD2	1.46	0.80
44:NE:253:THR:HG22	45:NH:98:GLY:HA3	1.64	0.80
45:NH:391:ARG:HE	45:NH:393:ALA:HB3	1.47	0.80
44:NK:174:SER:HB3	44:NK:207:GLU:HG3	1.64	0.80
45:OB:105:HIS:CD2	45:OB:150:LEU:HB2	2.17	0.80
44:OE:71:GLU:OE1	44:OE:73:THR:OG1	2.00	0.80
44:OM:268:MET:HG3	44:OM:380:ASN:HA	1.63	0.80
45:ON:166:THR:O	45:ON:200:MET:N	2.13	0.80
45:ON:313:ALA:O	45:ON:350:LYS:N	2.14	0.80
45:ON:332:ASN:HB2	45:ON:336:LYS:NZ	1.95	0.80
45:PL:97:ALA:HB3	45:PL:143:THR:HB	1.62	0.80
44:QC:209:ILE:HD12	44:QC:227:LEU:HD22	1.62	0.80
44:QG:68:LEU:HD22	44:QG:153:LEU:HD21	1.64	0.80
44:QG:208:ALA:O	44:QG:212:ILE:N	2.14	0.80
44:QK:6:SER:O	44:QK:7:ILE:HD13	1.82	0.80
45:QL:256:ASN:OD1	44:QM:181:VAL:HG22	1.82	0.80
44:RE:70:LEU:HD22	44:RE:99:ALA:HB2	1.64	0.80
45:RF:139:LEU:HD22	45:RF:170:VAL:HG12	1.64	0.80
45:RF:332:ASN:OD1	45:RF:336:LYS:NZ	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:104:ALA:HA	44:RI:413:MET:CE	2.12	0.80
45:RJ:228:LEU:O	45:RJ:232:ALA:N	2.15	0.80
44:RM:118:CYS:HA	44:RM:121:ARG:HD3	1.64	0.80
45:RN:100:ASN:HD21	45:RN:102:ALA:HB3	1.46	0.80
44:SC:196:GLU:OE2	44:SC:264:ARG:NH1	2.15	0.80
45:SH:289:LEU:HD13	45:SH:365:VAL:HG13	1.63	0.80
44:TA:104:ALA:HB2	44:TA:413:MET:CE	2.12	0.80
45:TD:180:VAL:HG22	45:TD:183:TYR:HB2	1.61	0.80
45:TL:21:TRP:HE1	45:TL:63:ALA:HB2	1.45	0.80
44:UE:14:ILE:CD1	44:UE:69:ASP:HB2	2.10	0.80
45:UH:322:SER:OG	45:UH:325:GLU:OE1	2.00	0.80
45:UJ:1:MET:HE2	44:UK:96:LYS:HB3	1.64	0.80
45:UL:2:ARG:NH2	44:UM:71:GLU:OE2	2.15	0.80
44:UM:215:ARG:NH2	44:UM:300:ASN:OD1	2.14	0.80
44:VA:252:ILE:HA	44:VA:255:PHE:CE2	2.16	0.80
45:VB:8:GLN:HE21	45:VB:65:LEU:HG	1.47	0.80
45:VJ:177:ASP:N	45:VJ:181:GLU:OE2	2.13	0.80
44:VK:315:CYS:N	44:VK:350:GLY:O	2.13	0.80
1:6H:327:PHE:CE1	45:FJ:215:LEU:HD12	2.03	0.79
2:0A:39:TYR:OH	44:MA:78:VAL:HG22	1.82	0.79
37:5B:122:ASN:ND2	45:NH:15:GLN:OE1	2.13	0.79
35:5R:430:LEU:HD23	35:5R:437:ASP:HB3	1.64	0.79
11:6Q:95:ASP:HB3	11:6Q:146:THR:HG21	1.62	0.79
44:AI:55:GLU:HG3	44:AI:57:GLY:H	1.46	0.79
44:AI:399:TYR:CE1	44:AI:402:ARG:HG2	2.16	0.79
44:AM:76:ASP:OD1	44:AM:79:ARG:NH2	2.15	0.79
45:AN:281:TYR:HB3	45:MN:86:ARG:HD3	1.64	0.79
44:BG:183:GLU:HG2	44:BG:184:PRO:HD3	1.62	0.79
45:BL:180:VAL:HG22	45:BL:183:TYR:HB2	1.64	0.79
44:CA:25:CYS:CB	44:CA:30:ILE:HB	2.11	0.79
44:CC:318:MET:HG3	44:CC:354:GLY:HA3	1.62	0.79
45:DF:309:ARG:NH2	45:DF:426:GLN:O	2.14	0.79
44:DG:55:GLU:HG3	44:DG:57:GLY:H	1.46	0.79
45:DL:242:PHE:CD2	45:DL:356:ILE:HB	2.16	0.79
45:EH:311:LEU:CD1	45:EH:312:THR:HG22	2.12	0.79
44:FC:256:GLN:HG2	45:FF:397:TRP:HZ2	1.47	0.79
45:FD:21:TRP:HZ3	45:FD:61:PRO:HB2	1.42	0.79
44:FE:407:TRP:CZ3	45:FF:255:VAL:HA	2.17	0.79
45:FH:113:ILE:HD13	45:FH:150:LEU:HD22	1.64	0.79
44:GC:386:GLU:O	44:GC:389:SER:OG	1.98	0.79
44:GE:238:LEU:HD21	44:GE:255:PHE:HE2	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:320:ARG:HH12	44:GE:360:PRO:HB3	1.47	0.79
44:GE:407:TRP:HZ3	45:GF:255:VAL:HA	1.47	0.79
45:GH:86:ARG:NH1	45:HH:281:TYR:HB2	1.97	0.79
44:HK:88:HIS:NE2	44:IK:284:GLU:OE2	2.14	0.79
44:HK:223:THR:OG1	45:HL:323:THR:HG23	1.82	0.79
44:HK:226:ASN:HA	44:HK:229:ARG:NH1	1.96	0.79
45:IF:6:HIS:NE2	45:IF:8:GLN:OE1	2.16	0.79
44:JA:404:PHE:CZ	45:JB:259:PRO:HB3	2.17	0.79
44:KA:335:ILE:O	44:KA:338:LYS:HG2	1.83	0.79
45:KJ:210:ILE:O	45:KJ:214:THR:OG1	2.00	0.79
44:KK:259:LEU:O	44:KK:259:LEU:HD23	1.81	0.79
44:LA:155:GLU:HA	44:LA:197:HIS:CD2	2.17	0.79
44:LA:227:LEU:HD13	46:LB:501:GTP:HN21	1.45	0.79
45:LD:284:LEU:HB3	45:LD:363:MET:HE1	1.64	0.79
44:LG:98:ASP:O	44:LG:105:ARG:NH1	2.14	0.79
45:LN:217:LEU:HD11	45:LN:220:PRO:HG3	1.63	0.79
44:NE:28:HIS:NE2	44:NE:49:PHE:HB3	1.97	0.79
45:OB:317:PHE:HB2	45:OB:352:SER:O	1.81	0.79
44:OE:215:ARG:NH2	44:OE:300:ASN:OD1	2.15	0.79
44:PG:268:MET:HB3	44:PG:380:ASN:HB2	1.64	0.79
45:QD:164:MET:HE3	45:QD:197:ASP:N	1.97	0.79
45:QF:4:ILE:HG22	45:QF:131:GLN:HG2	1.61	0.79
44:QI:115:VAL:HG22	44:QI:156:ARG:HD2	1.64	0.79
45:QN:318:ARG:HB3	45:QN:357:PRO:HA	1.63	0.79
45:SD:342:VAL:HG13	45:SD:345:ILE:HG22	1.64	0.79
45:SL:272:PRO:HG3	45:SL:289:LEU:CD2	2.12	0.79
45:TF:97:ALA:HA	45:TF:103:LYS:CD	2.12	0.79
44:TM:98:ASP:O	44:TM:105:ARG:NH1	2.14	0.79
44:UC:141:VAL:O	44:UC:186:ASN:ND2	2.14	0.79
44:UE:90:GLU:HG3	44:UE:121:ARG:NH1	1.98	0.79
45:UJ:313:ALA:N	45:UJ:348:ASN:O	2.14	0.79
44:UK:77:GLU:OE1	44:UK:80:THR:OG1	1.98	0.79
45:UN:318:ARG:HB3	45:UN:364:ALA:HB3	1.63	0.79
45:VD:263:LEU:HD21	45:VD:422:TYR:CD1	2.16	0.79
44:VK:248:LEU:HD23	44:VK:353:VAL:HG23	1.64	0.79
44:WA:319:TYR:HE2	44:WA:328:VAL:HG22	1.48	0.79
44:WI:36:MET:SD	44:WI:38:SER:OG	2.40	0.79
44:WI:205:ASP:OD1	44:WI:303:ALA:HA	1.82	0.79
3:OB:277:LYS:HD3	44:JI:45:GLY:HA3	1.65	0.79
4:OC:83:SER:HB2	45:EH:355:ASP:HB3	1.63	0.79
13:OT:152:PRO:HG3	45:MB:406:MET:HE3	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2I:134:LYS:HD2	45:GD:329:GLN:HG2	1.63	0.79
22:2L:526:ARG:HH11	45:BN:362:LYS:HE2	1.45	0.79
40:6F:17:PHE:HD1	45:IF:53:GLU:HG2	1.47	0.79
44:AA:143:GLY:HA3	46:AA:501:GTP:O2B	1.82	0.79
44:AK:51:THR:HG21	44:AK:243:ARG:CG	2.12	0.79
45:AL:207:LEU:HB3	45:AL:225:LEU:HD22	1.64	0.79
45:AN:390:ARG:HH11	45:AN:391:ARG:HD3	1.48	0.79
44:BE:210:TYR:HE1	44:BE:227:LEU:HD11	1.47	0.79
45:BF:133:PHE:HB2	45:BF:164:MET:CE	2.12	0.79
45:BL:83:GLN:O	45:CJ:281:TYR:OH	1.98	0.79
44:CA:30:ILE:HD13	44:CA:36:MET:HE3	1.63	0.79
45:CH:256:ASN:HB3	44:CI:181:VAL:HG12	1.62	0.79
45:CN:178:THR:O	45:CN:181:GLU:HG3	1.80	0.79
45:CN:248:SER:OG	45:CN:253:LEU:HD11	1.82	0.79
45:DB:117:LEU:HB2	45:DB:154:LYS:HZ1	1.46	0.79
44:DC:348:PRO:CG	45:DD:384:GLN:HG3	2.12	0.79
45:DF:135:ILE:HG13	45:DF:152:ILE:HD11	1.64	0.79
44:DK:268:MET:HA	44:DK:380:ASN:OD1	1.82	0.79
44:DK:311:LYS:HE2	44:DK:344:VAL:CA	2.08	0.79
44:EK:68:LEU:HD21	44:EK:118:CYS:SG	2.22	0.79
44:EK:254:GLU:HG2	45:EL:98:GLY:HA2	1.63	0.79
44:FC:331:SER:O	44:FC:334:THR:OG1	2.00	0.79
45:FJ:3:GLU:OE2	45:FJ:128:ASP:N	2.15	0.79
45:FJ:302:ALA:HB3	45:FJ:377:MET:HE3	1.62	0.79
44:FM:210:TYR:CZ	45:FN:324:LYS:HB2	2.17	0.79
44:GG:188:ILE:HG23	44:GG:425:LEU:HD12	1.63	0.79
44:GK:141:VAL:CG2	44:GK:187:SER:HA	2.13	0.79
44:GK:284:GLU:HG3	44:GK:286:LEU:HD22	1.65	0.79
45:GN:175:VAL:HG22	45:GN:205:GLU:HB2	1.63	0.79
45:HB:212:PHE:HE1	45:HB:218:THR:HA	1.47	0.79
45:HH:286:VAL:HG23	45:HH:287:PRO:HD3	1.64	0.79
45:IB:285:THR:O	45:IB:289:LEU:N	2.14	0.79
45:IJ:4:ILE:HG13	45:IJ:132:GLY:O	1.80	0.79
44:IK:88:HIS:CE1	44:IK:90:GLU:HG2	2.17	0.79
45:IL:268:ILE:HG22	45:IL:368:VAL:HG22	1.63	0.79
45:JB:27:GLU:OE1	45:JB:241:ARG:NH1	2.14	0.79
44:JC:176:GLN:O	45:JD:331:LEU:HD21	1.82	0.79
45:JF:209:ASP:HA	45:JF:213:ARG:CZ	2.12	0.79
44:JI:340:THR:HG23	44:JI:341:ILE:HD12	1.64	0.79
44:JK:141:VAL:HG11	44:JK:172:TYR:CD1	2.17	0.79
45:JL:317:PHE:HB3	45:JL:321:MET:HE3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:248:LEU:HB3	44:JM:354:GLY:HA2	1.65	0.79
44:KI:248:LEU:HB2	44:KI:355:ILE:HG12	1.64	0.79
45:LJ:372:THR:HA	45:LJ:422:TYR:HE2	1.47	0.79
45:LN:117:LEU:HG	45:LN:121:ARG:NH2	1.96	0.79
44:MI:276:ILE:HG12	44:MI:281:ALA:HA	1.63	0.79
45:MJ:1:MET:O	45:MJ:2:ARG:HG2	1.82	0.79
45:ML:73:MET:HE1	45:ML:92:PHE:HB3	1.63	0.79
44:NG:398:MET:HE1	45:NH:345:ILE:HA	1.64	0.79
45:NL:328:GLU:O	45:NL:332:ASN:N	2.12	0.79
45:OB:68:LEU:HD12	45:OB:143:THR:HB	1.64	0.79
45:OB:287:PRO:HA	45:OB:290:THR:HG22	1.64	0.79
45:OJ:244:GLY:HA2	45:OJ:355:ASP:OD2	1.83	0.79
44:OM:216:ASN:HD22	44:OM:275:ILE:HB	1.48	0.79
45:ON:16:ILE:O	45:ON:20:PHE:N	2.16	0.79
44:PG:320:ARG:HD3	44:PG:360:PRO:HG3	1.61	0.79
45:PN:317:PHE:HA	45:PN:365:VAL:HG22	1.63	0.79
44:QA:67:PHE:O	44:QA:93:ILE:N	2.14	0.79
44:QA:274:PRO:HD2	44:QA:374:ALA:HA	1.64	0.79
45:QB:7:ILE:HB	45:QB:135:ILE:CD1	2.12	0.79
45:QB:417:ASP:O	45:QB:421:GLU:N	2.14	0.79
45:QF:257:LEU:HB3	45:QF:266:PHE:CZ	2.16	0.79
45:QF:285:THR:HG23	45:QF:287:PRO:HD2	1.63	0.79
45:RB:2:ARG:NH2	45:RB:240:LEU:O	2.15	0.79
44:RE:7:ILE:N	44:RE:136:LEU:O	2.12	0.79
44:RG:141:VAL:CG2	44:RG:187:SER:HA	2.12	0.79
44:RI:233:GLN:HG3	44:RI:272:TYR:OH	1.82	0.79
44:RK:102:ASN:HB3	44:RK:105:ARG:HB2	1.64	0.79
44:SA:288:VAL:HA	44:SA:291:ILE:HG12	1.64	0.79
45:SB:322:SER:OG	44:SC:222:PRO:O	1.99	0.79
44:SE:215:ARG:NH2	44:SE:299:ALA:O	2.14	0.79
44:SE:223:THR:O	44:SE:226:ASN:N	2.14	0.79
44:SG:206:ASN:HA	44:SG:209:ILE:HD12	1.64	0.79
45:SJ:376:GLU:HG3	45:SJ:380:ARG:HH21	1.45	0.79
45:SL:2:ARG:NH2	44:SM:73:THR:OG1	2.16	0.79
44:SM:233:GLN:O	44:SM:237:SER:N	2.13	0.79
44:TE:141:VAL:HG11	44:TE:172:TYR:HD1	1.46	0.79
45:TJ:372:THR:OG1	45:TJ:426:GLN:NE2	2.15	0.79
45:TL:27:GLU:OE2	45:TL:241:ARG:NH2	2.14	0.79
44:TM:141:VAL:CG1	44:TM:172:TYR:HA	2.12	0.79
44:VA:135:PHE:HB2	44:VA:166:LYS:CG	2.12	0.79
44:VC:284:GLU:HG3	44:VC:286:LEU:HD22	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:215:LEU:HD23	45:VD:217:LEU:HD23	1.63	0.79
44:VG:174:SER:OG	44:VG:206:ASN:OD1	1.99	0.79
44:VK:141:VAL:CG1	44:VK:172:TYR:HA	2.12	0.79
44:WI:64:ARG:NH1	44:WI:129:CYS:SG	2.56	0.79
44:WK:37:PRO:HB2	44:WK:40:LYS:HB2	1.63	0.79
2:0A:53:HIS:O	44:MA:84:ARG:NH1	2.15	0.79
20:1J:56:PRO:HB2	45:ID:322:SER:HB3	1.61	0.79
27:1W:60:LEU:HD23	45:LH:273:LEU:HD21	1.62	0.79
38:5H:15:THR:HG22	38:5H:16:GLN:H	1.46	0.79
35:7R:318:TYR:CG	35:7R:319:PRO:HD2	2.17	0.79
44:AC:192:HIS:HD2	44:AC:421:ALA:HA	1.46	0.79
44:AE:221:ARG:HD2	45:AF:322:SER:HB3	1.64	0.79
45:AF:178:THR:OG1	45:AF:181:GLU:HG3	1.83	0.79
44:AG:241:SER:OG	44:AG:250:VAL:O	1.99	0.79
44:AI:398:MET:HE2	45:AJ:345:ILE:HA	1.61	0.79
44:BE:276:ILE:HD13	44:BE:281:ALA:HA	1.65	0.79
44:BI:326:LYS:NZ	45:BL:218:THR:O	2.15	0.79
45:BN:143:THR:O	45:BN:147:MET:HG2	1.82	0.79
45:CB:268:ILE:HG22	45:CB:368:VAL:HG12	1.65	0.79
45:CL:355:ASP:O	45:CL:356:ILE:HD13	1.82	0.79
45:DJ:77:ARG:HG3	45:DJ:83:GLN:OE1	1.81	0.79
45:EB:69:GLU:OE1	45:EB:71:GLY:N	2.15	0.79
45:EL:316:LEU:HA	45:EL:352:SER:HB2	1.62	0.79
45:FB:50:TYR:O	45:FB:61:PRO:HA	1.82	0.79
44:FE:60:LYS:NZ	44:FE:85:GLN:O	2.16	0.79
44:GA:219:ILE:HG21	44:GA:222:PRO:HB3	1.63	0.79
44:GA:404:PHE:CZ	45:GB:259:PRO:HA	2.17	0.79
44:GG:10:GLY:O	44:GG:14:ILE:HD12	1.82	0.79
44:GG:141:VAL:HG11	44:GG:172:TYR:HD1	1.47	0.79
44:GK:269:LEU:O	44:GK:379:SER:N	2.15	0.79
45:GL:19:LYS:O	45:GL:23:VAL:N	2.10	0.79
44:HI:407:TRP:HH2	45:HJ:254:ALA:HB1	1.47	0.79
45:HJ:237:THR:HG23	45:HJ:241:ARG:HH21	1.45	0.79
45:IF:213:ARG:HH21	45:IF:297:LYS:HE2	1.46	0.79
45:IH:49:VAL:HG21	45:IH:241:ARG:HG2	1.62	0.79
45:IH:73:MET:HE3	45:IH:90:PHE:CD2	2.17	0.79
44:II:207:GLU:OE1	44:II:304:LYS:NZ	2.13	0.79
44:IK:221:ARG:NE	45:IL:322:SER:OG	2.15	0.79
44:JK:247:ALA:HB1	45:JN:222:TYR:HE2	1.45	0.79
44:JM:171:ILE:HA	44:JM:204:LEU:HB2	1.64	0.79
44:KA:257:THR:HA	45:KD:397:TRP:CH2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:295:ASP:OD1	45:KB:297:LYS:N	2.16	0.79
44:KE:205:ASP:OD1	44:KE:303:ALA:HA	1.82	0.79
44:KG:143:GLY:HA3	46:KG:501:GTP:O2B	1.83	0.79
45:KN:417:ASP:HA	45:KN:420:SER:HB3	1.63	0.79
45:LB:156:ARG:HG3	45:LB:195:ASN:HB3	1.64	0.79
45:LD:3:GLU:OE2	45:LD:128:ASP:N	2.15	0.79
44:LG:69:ASP:OD1	44:LG:70:LEU:N	2.15	0.79
45:LN:181:GLU:HG2	45:LN:182:PRO:HD3	1.63	0.79
44:NG:32:PRO:HB3	44:NG:83:TYR:HE1	1.48	0.79
45:NJ:345:ILE:O	45:NJ:348:ASN:HB3	1.82	0.79
44:NK:31:GLN:CG	44:NK:32:PRO:HD2	2.13	0.79
44:OC:173:PRO:O	44:OC:390:ARG:NH1	2.14	0.79
45:OH:202:ILE:HD11	45:OH:268:ILE:HG12	1.64	0.79
45:ON:117:LEU:HA	45:ON:120:VAL:HB	1.63	0.79
44:PM:68:LEU:HG	44:PM:93:ILE:HD13	1.62	0.79
44:QM:32:PRO:HB3	44:QM:83:TYR:HE1	1.46	0.79
44:QM:140:SER:OG	46:QM:501:GTP:O2B	2.00	0.79
45:RB:303:ALA:H	45:RB:377:MET:HE2	1.45	0.79
44:RC:288:VAL:HG21	44:RC:323:VAL:HG21	1.62	0.79
45:RD:139:LEU:HD22	45:RD:170:VAL:HG12	1.61	0.79
45:RD:249:ASP:OD1	45:RD:252:LYS:N	2.15	0.79
45:RD:327:ASP:O	45:RD:331:LEU:N	2.11	0.79
44:RI:98:ASP:O	44:RI:105:ARG:NH1	2.15	0.79
45:SB:113:ILE:O	45:SB:117:LEU:N	2.13	0.79
45:SL:202:ILE:HG23	45:SL:300:MET:HB3	1.63	0.79
45:SN:315:ALA:N	45:SN:350:LYS:O	2.15	0.79
45:TD:200:MET:SD	45:TD:266:PHE:HB2	2.22	0.79
44:TM:72:PRO:HG3	44:TM:95:GLY:O	1.81	0.79
45:TN:317:PHE:O	45:TN:353:ILE:HA	1.82	0.79
44:UC:136:LEU:HD22	44:UC:167:LEU:HB2	1.64	0.79
45:UD:100:ASN:ND2	45:UD:401:GLU:OE1	2.14	0.79
44:UM:326:LYS:O	44:UM:330:ALA:N	2.15	0.79
44:UM:406:HIS:HA	44:UM:409:VAL:HG22	1.64	0.79
44:VA:68:LEU:HD21	44:VA:118:CYS:HB2	1.63	0.79
45:VD:253:LEU:HD21	45:VD:316:LEU:HD11	1.63	0.79
44:VG:215:ARG:NH2	44:VG:300:ASN:OD1	2.16	0.79
44:VK:427:ALA:O	44:VK:431:ASP:N	2.15	0.79
44:VM:108:TYR:HA	44:VM:112:LYS:HE3	1.65	0.79
44:VM:407:TRP:HZ3	45:VN:255:VAL:HA	1.46	0.79
44:VM:416:GLY:O	44:VM:419:SER:OG	1.98	0.79
45:WB:315:ALA:O	45:WB:352:SER:OG	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:152:LEU:HG	44:WK:156:ARG:HH22	1.46	0.79
44:WM:9:VAL:HG13	44:WM:139:ASN:HB3	1.63	0.79
45:WN:317:PHE:HA	45:WN:365:VAL:HG22	1.64	0.79
1:6H:170:TYR:HD2	45:FB:320:ARG:HH21	1.23	0.79
3:0B:83:ASN:ND2	44:JG:77:GLU:OE1	2.16	0.79
5:0D:9:TYR:O	44:CC:84:ARG:NH2	2.16	0.79
5:0D:166:ARG:N	45:EB:41:ASP:OD2	2.09	0.79
7:0F:51:THR:HG22	44:EE:219:ILE:CG1	2.11	0.79
27:2W:239:ARG:NH2	35:6R:5:LEU:CG	2.03	0.79
2:3A:104:ARG:CD	35:6R:59:MET:SD	2.70	0.79
31:3H:193:LEU:HD11	45:AH:362:LYS:HG3	1.64	0.79
45:AD:52:ASN:OD1	45:AD:62:ARG:NH2	2.15	0.79
44:AK:407:TRP:HH2	45:AL:258:ILE:HB	1.47	0.79
45:AN:7:ILE:HB	45:AN:135:ILE:CD1	2.12	0.79
44:BC:414:GLU:HB2	44:BC:417:GLU:HG2	1.61	0.79
44:BG:215:ARG:NH2	44:BG:300:ASN:OD1	2.15	0.79
44:BI:224:TYR:HE2	45:BJ:246:LEU:HD11	1.47	0.79
44:BK:324:VAL:HG13	44:BK:325:PRO:HD2	1.65	0.79
45:CB:286:VAL:HB	45:CB:325:GLU:HG2	1.64	0.79
45:CF:342:VAL:HG13	45:CF:345:ILE:HG22	1.65	0.79
45:CH:1:MET:O	45:CH:2:ARG:HG2	1.81	0.79
45:CH:238:CYS:SG	45:CH:318:ARG:NE	2.55	0.79
44:DA:223:THR:N	44:DA:226:ASN:OD1	2.11	0.79
45:DB:203:ASP:O	45:DB:207:LEU:HG	1.82	0.79
44:DE:89:PRO:HG3	44:EE:280:LYS:HG3	1.63	0.79
44:DK:210:TYR:CE1	44:DK:227:LEU:HD11	2.17	0.79
44:DM:248:LEU:HB3	44:DM:355:ILE:HD13	1.65	0.79
45:EF:135:ILE:HG21	45:EF:152:ILE:HD11	1.63	0.79
45:EF:251:ARG:O	45:EF:255:VAL:N	2.15	0.79
45:EH:97:ALA:CB	45:EH:143:THR:HB	2.12	0.79
45:EN:274:THR:HB	45:EN:282:ARG:HD3	1.62	0.79
44:FE:5:ILE:HD12	44:FE:135:PHE:HE1	1.48	0.79
44:FK:119:LEU:HD21	44:FK:156:ARG:HD2	1.64	0.79
44:FK:350:GLY:HA2	45:FN:179:VAL:HG23	1.63	0.79
45:GB:100:ASN:HD22	45:GB:103:LYS:HB2	1.48	0.79
44:GC:169:PHE:HA	44:GC:202:VAL:HG12	1.65	0.79
44:GI:88:HIS:HA	44:HI:283:HIS:ND1	1.97	0.79
44:GK:407:TRP:CZ3	45:GL:255:VAL:HA	2.14	0.79
45:GL:292:GLN:O	45:GL:298:ASN:ND2	2.13	0.79
45:GN:282:ARG:NH2	45:GN:292:GLN:OE1	2.16	0.79
45:IJ:309:ARG:NH2	45:IJ:426:GLN:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:14:ILE:HD11	44:IK:69:ASP:HB2	1.64	0.79
45:IN:267:MET:HE3	45:IN:301:CYS:CB	2.12	0.79
45:JL:46:ARG:HG2	45:JL:49:VAL:HG23	1.63	0.79
45:JN:54:ALA:HA	45:KN:283:ALA:HB2	1.62	0.79
45:JN:289:LEU:HD11	45:JN:363:MET:HB3	1.64	0.79
45:KB:101:TRP:CZ3	45:KB:187:LEU:HD13	2.17	0.79
44:LI:423:GLU:O	44:LI:427:ALA:N	2.16	0.79
44:LM:188:ILE:HG23	44:LM:425:LEU:HD12	1.63	0.79
45:MF:101:TRP:CZ3	45:MF:187:LEU:HB3	2.14	0.79
44:MI:203:MET:HB2	44:MI:269:LEU:HD13	1.62	0.79
45:NB:394:PHE:HA	45:NB:397:TRP:CZ3	2.18	0.79
44:NC:72:PRO:O	44:NC:76:ASP:N	2.15	0.79
44:NC:141:VAL:CG2	44:NC:187:SER:HA	2.12	0.79
45:NF:135:ILE:HD12	45:NF:164:MET:HE2	1.63	0.79
44:NI:176:GLN:NE2	44:NI:207:GLU:OE2	2.15	0.79
44:NM:280:LYS:HD3	44:NM:280:LYS:O	1.80	0.79
45:OB:28:HIS:HA	45:OB:43:GLN:CG	2.13	0.79
44:OM:294:SER:HA	44:OM:297:GLU:HG3	1.63	0.79
45:PF:4:ILE:HG23	45:PF:132:GLY:O	1.82	0.79
45:PL:262:ARG:NH1	45:PL:421:GLU:OE1	2.14	0.79
44:QG:134:GLY:HA2	44:QG:164:LYS:NZ	1.97	0.79
45:QH:318:ARG:HH11	45:QH:358:PRO:HG3	1.47	0.79
45:QJ:234:SER:HA	45:QJ:237:THR:HG22	1.64	0.79
44:QK:161:TYR:HB3	44:QK:164:LYS:HE2	1.64	0.79
45:QL:19:LYS:O	45:QL:23:VAL:N	2.12	0.79
44:QM:259:LEU:O	44:QM:380:ASN:ND2	2.15	0.79
44:QM:402:ARG:HB2	44:QM:405:VAL:HG21	1.61	0.79
45:RB:87:PRO:HA	45:RB:90:PHE:CD2	2.16	0.79
45:RF:1:MET:O	45:RF:2:ARG:HG2	1.83	0.79
44:RI:348:PRO:HG3	45:RJ:384:GLN:HA	1.64	0.79
45:RN:211:CYS:O	45:RN:216:LYS:N	2.14	0.79
44:SA:184:PRO:HA	44:SA:187:SER:HB2	1.64	0.79
45:SH:271:ALA:HB1	45:SH:272:PRO:HA	1.63	0.79
45:SL:268:ILE:HG13	45:SL:300:MET:HE2	1.64	0.79
44:UA:9:VAL:HG21	44:UA:149:LEU:CB	2.13	0.79
44:UE:69:ASP:OD1	44:UE:70:LEU:N	2.14	0.79
44:UE:107:HIS:ND1	44:UE:107:HIS:O	2.13	0.79
44:UE:390:ARG:HG3	44:UE:391:LEU:HD12	1.65	0.79
45:UH:173:PRO:CG	45:UH:380:ARG:HD3	2.13	0.79
45:UL:268:ILE:HG22	45:UL:368:VAL:HG22	1.62	0.79
44:UM:76:ASP:OD1	44:UM:79:ARG:NH2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:144:GLY:O	44:VK:148:GLY:N	2.14	0.79
44:VK:377:MET:O	44:VK:378:ILE:HD13	1.82	0.79
45:VN:52:ASN:HB2	45:VN:60:VAL:HG13	1.63	0.79
44:WC:196:GLU:OE2	44:WC:264:ARG:NH1	2.16	0.79
44:WG:15:GLN:HE22	45:WH:245:GLN:HA	1.46	0.79
44:WK:394:LYS:HZ2	45:WL:346:PRO:HB2	1.47	0.79
12:OS:312:THR:O	44:AA:402:ARG:NH1	2.14	0.79
19:1I:174:ILE:CD1	45:KH:78:ALA:HB1	2.13	0.79
15:1V:46:PRO:HG3	44:LI:95:GLY:HA2	1.64	0.79
5:2D:99:ARG:NH2	44:EK:364:PRO:HA	1.97	0.79
16:4X:3:ARG:N	45:LL:75:SER:OG	2.13	0.79
37:5D:115:ASP:H	44:NM:373:ARG:HG2	1.47	0.79
35:5R:492:ILE:HD11	35:5R:508:ALA:HB2	1.64	0.79
35:5R:497:GLN:HG3	35:5R:502:ARG:HG2	1.64	0.79
35:5R:544:SER:HB3	35:5R:547:GLU:HB2	1.65	0.79
35:5R:571:VAL:HG23	35:5R:575:ARG:HH12	1.47	0.79
41:6G:202:ASN:ND2	45:VF:338:SER:OG	2.15	0.79
35:6R:31:PHE:CE1	45:LN:90:PHE:HD1	2.01	0.79
35:7R:275:ILE:O	35:7R:288:LYS:N	2.16	0.79
42:8L:323:UNK:O	42:8L:327:UNK:N	2.16	0.79
44:BE:167:LEU:HD22	44:BE:200:VAL:HB	1.64	0.79
44:BG:140:SER:OG	46:BG:501:GTP:O2A	2.00	0.79
44:BK:221:ARG:NH1	45:BL:322:SER:O	2.15	0.79
44:CA:46:ASP:HA	44:CA:49:PHE:CE2	2.17	0.79
44:CC:206:ASN:HB2	44:CC:210:TYR:OH	1.83	0.79
45:CJ:67:ASP:OD1	45:CJ:68:LEU:N	2.15	0.79
45:CL:17:GLY:O	45:CL:20:PHE:N	2.15	0.79
45:CN:269:GLY:O	45:CN:366:THR:OG1	1.99	0.79
45:DJ:58:ARG:HH11	45:EJ:280:GLN:HE22	1.30	0.79
44:DK:69:ASP:HB3	44:DK:75:ILE:HD11	1.63	0.79
44:DM:275:ILE:HG23	44:DM:368:LEU:HD21	1.64	0.79
44:DM:408:TYR:HB3	44:DM:413:MET:HE2	1.64	0.79
45:DN:109:GLY:HA3	45:DN:147:MET:HE1	1.64	0.79
44:EA:271:SER:OG	44:EA:301:MET:HA	1.83	0.79
45:EB:113:ILE:HA	45:EB:116:VAL:CG1	2.13	0.79
44:EC:434:GLU:O	44:EC:437:ILE:HG12	1.82	0.79
44:EK:210:TYR:HE1	44:EK:227:LEU:HD11	1.48	0.79
44:EK:278:ALA:HB2	44:EK:369:ALA:HB2	1.64	0.79
45:EN:313:ALA:HA	45:EN:369:GLY:HA2	1.62	0.79
45:GF:69:GLU:OE1	45:GF:71:GLY:N	2.15	0.79
45:GF:135:ILE:HG13	45:GF:152:ILE:HD11	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:3:GLU:O	45:HB:131:GLN:N	2.11	0.79
45:HD:156:ARG:NH1	45:HD:162:ARG:O	2.14	0.79
45:HN:249:ASP:OD1	45:HN:250:LEU:N	2.14	0.79
45:IH:263:LEU:HD11	45:IH:422:TYR:HD1	1.47	0.79
44:II:141:VAL:HG11	44:II:172:TYR:CD1	2.18	0.79
44:JA:261:PRO:HA	45:JD:394:PHE:CE2	2.17	0.79
44:JC:180:ALA:HA	45:JD:350:LYS:NZ	1.97	0.79
45:JN:186:THR:HG22	45:JN:415:MET:HE1	1.64	0.79
45:JN:253:LEU:HB3	45:JN:257:LEU:HD12	1.65	0.79
45:KB:69:GLU:OE1	45:KB:71:GLY:N	2.15	0.79
44:KI:99:ALA:HB3	44:KI:145:THR:HB	1.64	0.79
44:KK:328:VAL:HG21	44:KK:355:ILE:HD11	1.63	0.79
45:KL:174:LYS:HD3	45:KL:175:VAL:HG13	1.65	0.79
45:LL:152:ILE:HG23	45:LL:164:MET:CE	2.13	0.79
45:LL:319:GLY:N	45:LL:354:CYS:O	2.15	0.79
45:MB:252:LYS:HG2	45:MB:350:LYS:HE2	1.63	0.79
44:MK:188:ILE:HG13	44:MK:425:LEU:HD11	1.63	0.79
45:MN:69:GLU:OE2	45:MN:72:THR:HG23	1.81	0.79
45:NB:132:GLY:HA3	45:NB:163:ILE:HG22	1.65	0.79
44:NC:274:PRO:HB2	44:NC:276:ILE:HD11	1.63	0.79
44:OC:79:ARG:HD3	44:OC:92:LEU:HD13	1.63	0.79
44:PC:222:PRO:HG2	45:PD:324:LYS:HD3	1.63	0.79
45:PD:173:PRO:HG2	45:PD:380:ARG:HD3	1.65	0.79
44:PE:102:ASN:HB3	44:PE:105:ARG:HG3	1.65	0.79
45:PH:145:SER:O	45:PH:149:THR:N	2.13	0.79
45:PH:217:LEU:HD11	45:PH:220:PRO:HB3	1.65	0.79
45:PN:316:LEU:HA	45:PN:352:SER:HB2	1.65	0.79
44:QE:149:LEU:O	44:QE:153:LEU:N	2.15	0.79
45:QJ:4:ILE:CG2	45:QJ:131:GLN:HB3	2.13	0.79
45:RD:200:MET:HE2	45:RD:268:ILE:HG12	1.64	0.79
44:RE:145:THR:O	44:RE:149:LEU:N	2.14	0.79
45:RJ:183:TYR:OH	45:RJ:393:ALA:O	1.99	0.79
44:SC:174:SER:HB2	44:SC:177:VAL:O	1.82	0.79
44:SC:223:THR:HG23	44:SC:225:THR:H	1.48	0.79
44:SE:71:GLU:OE2	44:SE:73:THR:OG1	1.99	0.79
44:SE:405:VAL:HG12	44:SE:409:VAL:HG23	1.65	0.79
44:SK:213:CYS:O	44:SK:217:LEU:N	2.16	0.79
44:SM:239:THR:HB	44:SM:242:LEU:HD12	1.63	0.79
44:TC:7:ILE:N	44:TC:136:LEU:O	2.16	0.79
44:TC:311:LYS:CD	44:TC:342:GLN:HG3	2.13	0.79
44:TK:217:LEU:HA	44:TK:277:SER:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:331:LEU:O	45:TL:334:GLN:HG2	1.82	0.79
44:UA:141:VAL:CG1	44:UA:172:TYR:HA	2.11	0.79
45:UB:16:ILE:HD12	45:UB:229:VAL:HB	1.65	0.79
45:UF:290:THR:CA	45:UF:293:MET:HE3	2.12	0.79
44:UK:71:GLU:OE1	44:UK:73:THR:N	2.14	0.79
45:UL:87:PRO:HA	45:UL:90:PHE:HD2	1.46	0.79
44:VA:256:GLN:HG2	45:VD:397:TRP:CZ2	2.16	0.79
44:VE:141:VAL:CG2	44:VE:187:SER:HA	2.13	0.79
45:VF:109:GLY:O	45:VF:113:ILE:N	2.16	0.79
45:VF:257:LEU:HD11	45:VF:314:SER:HB2	1.64	0.79
44:VK:235:ILE:O	44:VK:239:THR:N	2.14	0.79
44:WA:205:ASP:OD2	44:WA:304:LYS:N	2.14	0.79
44:WC:208:ALA:O	44:WC:212:ILE:N	2.14	0.79
45:WF:58:ARG:HH21	45:WF:84:LEU:HG	1.47	0.79
1:6H:368:GLY:O	45:FL:360:GLY:C	2.17	0.79
19:1I:216:PRO:CG	44:LE:359:PRO:HG3	2.12	0.79
14:1U:438:THR:OG1	44:WE:31:GLN:OE1	2.01	0.79
26:2R:126:PHE:HD1	44:AG:44:GLY:HA2	1.47	0.79
37:5D:44:SER:HB3	45:KN:391:ARG:O	1.81	0.79
37:5D:44:SER:C	45:KN:393:ALA:HB3	2.03	0.79
37:5D:113:VAL:HA	44:NM:285:GLN:O	1.83	0.79
38:5G:154:TYR:HE2	38:5H:12:ASN:HB2	1.48	0.79
41:6G:84:VAL:HB	41:6G:85:PRO:HD3	1.65	0.79
35:6R:50:ASP:HB2	35:6R:51:PRO:HD2	0.80	0.79
45:AB:372:THR:HA	45:AB:422:TYR:CE2	2.17	0.79
44:AI:392:ASP:OD1	44:AI:422:ARG:NH1	2.16	0.79
44:BA:286:LEU:O	44:BA:373:ARG:NH2	2.16	0.79
44:BE:324:VAL:O	44:BE:327:ASP:HB2	1.82	0.79
44:BK:257:THR:HA	45:BN:397:TRP:CE2	2.17	0.79
45:CH:304:ASP:OD2	45:CH:306:ARG:NH2	2.15	0.79
45:CN:211:CYS:O	45:CN:216:LYS:N	2.15	0.79
45:DF:166:THR:OG1	45:DF:198:GLU:O	2.00	0.79
45:DH:413:SER:HA	45:DH:416:ASN:HB3	1.64	0.79
45:EH:23:VAL:HG21	45:EH:230:SER:HB3	1.64	0.79
45:EJ:139:LEU:HD13	45:EJ:168:SER:HB3	1.65	0.79
45:EN:103:LYS:HA	45:EN:107:THR:OG1	1.82	0.79
45:FF:60:VAL:HG21	45:FF:86:ARG:HE	1.48	0.79
44:FG:7:ILE:HD11	44:FG:122:ILE:CD1	2.13	0.79
44:FK:409:VAL:HA	44:FK:413:MET:O	1.83	0.79
44:GA:280:LYS:HA	44:GA:283:HIS:HD2	1.47	0.79
44:GI:222:PRO:HD2	45:GJ:324:LYS:HE3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:268:ILE:HG22	45:GN:368:VAL:HG22	1.63	0.79
44:HA:174:SER:HB3	44:HA:207:GLU:HB2	1.63	0.79
44:HG:100:ALA:O	45:HH:255:VAL:HG21	1.82	0.79
45:HL:167:PHE:CE2	45:HL:233:MET:HG2	2.17	0.79
45:IJ:330:MET:HB3	45:IJ:349:ILE:CD1	2.12	0.79
44:JA:133:GLN:HG3	44:JA:252:ILE:HD11	1.65	0.79
44:JC:89:PRO:HD3	44:KC:283:HIS:ND1	1.98	0.79
45:KF:105:HIS:HD2	45:KF:150:LEU:HB2	1.47	0.79
44:KM:70:LEU:HA	44:KM:95:GLY:HA3	1.63	0.79
45:KN:167:PHE:HE2	45:KN:233:MET:HG2	1.46	0.79
44:MA:407:TRP:CH2	45:MB:258:ILE:HB	2.18	0.79
45:MJ:69:GLU:OE2	45:MJ:72:THR:HG23	1.81	0.79
44:NA:250:VAL:HG22	44:NA:352:LYS:HE3	1.65	0.79
45:NF:42:LEU:HD21	45:NF:356:ILE:HD11	1.64	0.79
44:NG:287:SER:HB3	44:NG:290:GLU:HG2	1.65	0.79
45:NH:170:VAL:HG13	45:NH:171:PRO:HD2	1.65	0.79
45:NJ:303:ALA:HA	45:NJ:376:GLU:OE2	1.82	0.79
45:NN:211:CYS:O	45:NN:216:LYS:N	2.16	0.79
44:OA:276:ILE:HA	44:OA:280:LYS:HE3	1.64	0.79
45:OD:146:GLY:O	45:OD:149:THR:HG22	1.81	0.79
45:ON:200:MET:HE1	45:ON:266:PHE:HB2	1.63	0.79
44:PI:88:HIS:O	44:PI:91:GLN:HG2	1.81	0.79
44:PK:311:LYS:N	44:PK:382:THR:OG1	2.16	0.79
44:QC:161:TYR:HB3	44:QC:164:LYS:HE2	1.63	0.79
44:QC:319:TYR:O	44:QC:356:ASN:N	2.16	0.79
45:QD:121:ARG:NE	45:QD:158:GLU:OE1	2.12	0.79
44:QI:70:LEU:HD11	44:QI:149:LEU:HD21	1.64	0.79
45:RD:64:ILE:HG12	45:RD:119:VAL:HG22	1.63	0.79
44:RE:34:GLY:O	44:RE:60:LYS:HA	1.83	0.79
45:SD:313:ALA:HB1	45:SD:367:PHE:CE1	2.17	0.79
44:TC:248:LEU:HD13	48:TD:501:GDP:H2'	1.65	0.79
45:TD:316:LEU:HB2	45:TD:366:THR:HB	1.63	0.79
45:TD:351:SER:N	44:TE:179:THR:O	2.15	0.79
45:TF:262:ARG:NH1	45:TF:421:GLU:OE1	2.16	0.79
45:TH:202:ILE:HG23	45:TH:300:MET:SD	2.22	0.79
45:TH:318:ARG:N	45:TH:364:ALA:O	2.15	0.79
44:TI:332:ILE:HD12	44:TI:351:PHE:CD2	2.18	0.79
45:TL:68:LEU:HB3	45:TL:96:GLY:HA2	1.64	0.79
45:UD:255:VAL:HG21	44:UE:100:ALA:HB1	1.64	0.79
44:UE:84:ARG:NH1	44:UE:85:GLN:OE1	2.16	0.79
44:UE:431:ASP:O	44:UE:435:VAL:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:268:ILE:O	45:UF:299:MET:HE3	1.82	0.79
45:UH:322:SER:OG	45:UH:325:GLU:N	2.15	0.79
45:VB:23:VAL:HA	45:VB:26:ASP:HB2	1.62	0.79
44:VE:413:MET:HE2	44:VE:413:MET:HA	1.65	0.79
44:VG:102:ASN:ND2	44:VG:105:ARG:HG3	1.97	0.79
45:VJ:392:LYS:HD2	45:VJ:395:LEU:HD22	1.64	0.79
44:WM:429:GLU:HA	44:WM:432:TYR:HD2	1.47	0.79
1:6H:259:THR:CG2	44:FE:77:GLU:HG3	2.08	0.79
9:1H:282:GLN:HG3	45:HF:276:ARG:HD2	1.65	0.79
32:2I:96:TRP:CZ2	45:GF:290:THR:HG23	2.18	0.79
37:5D:37:ASP:HB2	44:KK:264:ARG:H	1.46	0.79
37:5D:83:THR:HG23	44:NM:225:THR:HG22	1.64	0.79
38:5H:104:MET:SD	38:5H:105:LYS:N	2.56	0.79
40:6F:109:LYS:HB2	45:IH:77:ARG:HH21	1.48	0.79
35:6R:300:PHE:CB	45:CN:77:ARG:NH1	2.46	0.79
44:AC:237:SER:OG	44:AC:320:ARG:NH1	2.16	0.79
44:AM:76:ASP:OD2	45:AN:46:ARG:NH2	2.14	0.79
44:BI:336:LYS:HD3	44:BI:351:PHE:HE2	1.47	0.79
44:CA:208:ALA:HB3	44:CA:302:MET:O	1.83	0.79
45:CB:211:CYS:HA	45:CB:215:LEU:HD12	1.65	0.79
45:CD:203:ASP:OD2	45:CD:377:MET:HE3	1.83	0.79
44:CK:254:GLU:CG	45:CL:98:GLY:HA2	2.09	0.79
45:CL:72:THR:HG23	45:CL:73:MET:HE2	1.65	0.79
45:CL:101:TRP:CE3	45:CL:187:LEU:HD13	2.18	0.79
44:CM:317:MET:O	44:CM:353:VAL:HA	1.81	0.79
44:DA:9:VAL:HA	44:DA:68:LEU:O	1.82	0.79
45:DD:178:THR:N	45:DD:181:GLU:OE2	2.16	0.79
44:DE:89:PRO:HD3	44:EE:280:LYS:HD2	1.65	0.79
44:DM:265:ILE:HD12	44:DM:435:VAL:HG21	1.62	0.79
44:EC:108:TYR:HA	44:EC:112:LYS:HE3	1.63	0.79
44:EC:141:VAL:HG22	44:EC:187:SER:HA	1.65	0.79
45:ED:289:LEU:HD21	45:ED:363:MET:HE1	1.63	0.79
44:EE:247:ALA:HB2	44:EE:357:TYR:OH	1.83	0.79
44:EG:7:ILE:HG21	44:EG:137:VAL:HG12	1.64	0.79
44:FE:425:LEU:O	44:FE:429:GLU:N	2.13	0.79
44:FM:6:SER:HB2	44:FM:138:PHE:HE2	1.46	0.79
45:FN:6:HIS:NE2	45:FN:8:GLN:HB3	1.97	0.79
44:GE:24:PHE:HE1	44:GE:236:SER:HB2	1.45	0.79
44:GG:223:THR:HA	45:GH:322:SER:HB3	1.65	0.79
45:GH:86:ARG:HH21	45:GH:87:PRO:HG2	1.48	0.79
44:HK:394:LYS:NZ	45:HL:347:ASN:OD1	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:60:VAL:HG21	45:ID:86:ARG:HB3	1.65	0.79
44:IE:326:LYS:NZ	45:IH:220:PRO:O	2.14	0.79
44:II:237:SER:HA	44:II:320:ARG:HH22	1.46	0.79
44:JA:243:ARG:HG3	44:JA:244:PHE:CD2	2.17	0.79
44:JG:54:SER:HB3	44:JG:64:ARG:HH21	1.47	0.79
44:JG:330:ALA:O	44:JG:334:THR:HG23	1.83	0.79
45:JJ:210:ILE:O	45:JJ:214:THR:HG22	1.83	0.79
44:JK:234:VAL:HA	44:JK:237:SER:HB3	1.64	0.79
44:JM:75:ILE:HD12	44:JM:92:LEU:HD23	1.65	0.79
45:KB:317:PHE:HA	45:KB:365:VAL:HG22	1.63	0.79
44:KC:404:PHE:CE1	45:KD:259:PRO:HA	2.18	0.79
45:KJ:20:PHE:CE2	45:KJ:233:MET:HB3	2.18	0.79
45:KL:231:ALA:O	45:KL:234:SER:OG	2.00	0.79
44:KM:88:HIS:HE1	44:KM:90:GLU:HG2	1.48	0.79
44:LA:196:GLU:HG3	44:LA:197:HIS:CE1	2.17	0.79
44:LA:270:SER:OG	44:LA:302:MET:SD	2.40	0.79
44:LC:216:ASN:HB3	44:LC:275:ILE:O	1.82	0.79
45:LH:52:ASN:OD1	45:LH:62:ARG:NH1	2.15	0.79
44:MG:407:TRP:CH2	45:MH:258:ILE:HB	2.18	0.79
44:NA:7:ILE:HB	44:NA:137:VAL:HG12	1.65	0.79
45:ND:239:CYS:SG	45:ND:248:SER:N	2.52	0.79
44:NI:398:MET:CE	45:NJ:346:PRO:HD2	2.12	0.79
44:OA:100:ALA:HB1	45:OB:252:LYS:HA	1.65	0.79
44:OA:180:ALA:HB3	44:OA:183:GLU:HB3	1.64	0.79
45:OB:4:ILE:HD11	45:OB:134:GLN:HE21	1.46	0.79
45:OJ:178:THR:N	45:OJ:181:GLU:OE2	2.16	0.79
45:PF:268:ILE:HG22	45:PF:368:VAL:HA	1.64	0.79
44:PK:184:PRO:O	44:PK:188:ILE:HG12	1.83	0.79
44:QE:11:GLN:O	44:QE:15:GLN:N	2.15	0.79
45:QH:139:LEU:HD13	45:QH:168:SER:HB3	1.64	0.79
44:QI:288:VAL:HG12	44:QI:373:ARG:NE	1.98	0.79
45:QJ:415:MET:HE3	45:QJ:418:LEU:HB3	1.63	0.79
44:QK:11:GLN:HA	44:QK:14:ILE:HD13	1.63	0.79
44:RC:252:ILE:HA	44:RC:255:PHE:CE2	2.17	0.79
44:RG:261:PRO:HB3	44:RG:313:MET:HE1	1.63	0.79
45:SD:330:MET:SD	45:SD:351:SER:OG	2.41	0.79
45:SD:417:ASP:O	45:SD:421:GLU:N	2.15	0.79
44:SG:258:ASN:ND2	44:SG:352:LYS:HB2	1.98	0.79
45:TH:217:LEU:HD11	45:TH:220:PRO:HG3	1.62	0.79
45:TL:42:LEU:HA	45:TL:45:GLU:HG3	1.64	0.79
45:TL:272:PRO:HB3	45:TL:289:LEU:HD21	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:287:SER:HA	44:UA:373:ARG:HH21	1.47	0.79
44:UG:210:TYR:CE1	44:UG:227:LEU:HD11	2.17	0.79
45:UL:113:ILE:HD12	45:UL:150:LEU:HB3	1.64	0.79
44:UM:317:MET:HG2	44:UM:377:MET:HA	1.63	0.79
44:VG:54:SER:HB3	44:VG:64:ARG:HE	1.47	0.79
45:VN:246:LEU:HB2	45:VN:353:ILE:HD13	1.64	0.79
45:WL:66:MET:SD	45:WL:116:VAL:HG21	2.23	0.79
45:WN:172:SER:HB3	45:WN:203:ASP:HB3	1.62	0.79
24:IO:271:ALA:HB1	44:UA:278:ALA:HB1	1.63	0.79
5:2D:6:ARG:HE	45:CJ:41:ASP:HB3	1.47	0.79
32:3I:243:LYS:HE3	44:GI:215:ARG:NH2	1.97	0.79
45:AH:3:GLU:HG3	45:AH:62:ARG:HH12	1.47	0.79
44:BC:276:ILE:HD13	44:BC:281:ALA:HA	1.65	0.79
44:BK:259:LEU:HD21	44:BK:316:SER:CB	2.13	0.79
44:CE:31:GLN:HG2	44:CE:32:PRO:HD2	1.64	0.79
44:CE:55:GLU:HG3	44:CE:57:GLY:H	1.48	0.79
45:CF:403:MET:HA	45:CF:403:MET:HE3	1.65	0.79
44:CK:259:LEU:HD21	44:CK:380:ASN:HB2	1.65	0.79
44:DA:292:THR:HG21	44:DA:331:SER:CB	2.12	0.79
44:DC:76:ASP:OD1	44:DC:79:ARG:NH2	2.15	0.79
45:DD:133:PHE:N	45:DD:163:ILE:O	2.15	0.79
44:DE:173:PRO:HD2	44:DE:391:LEU:HD21	1.63	0.79
44:DI:24:PHE:O	44:DI:27:GLU:HG2	1.83	0.79
44:DK:195:LEU:CD1	44:DK:196:GLU:HG2	2.13	0.79
45:EH:216:LYS:HE2	45:EH:275:SER:HB3	1.62	0.79
44:EM:315:CYS:HA	44:EM:379:SER:HA	1.65	0.79
44:FE:76:ASP:OD1	44:FE:79:ARG:NH2	2.16	0.79
44:FK:225:THR:HA	44:FK:228:ASN:ND2	1.98	0.79
44:FK:407:TRP:CZ3	45:FL:255:VAL:HA	2.16	0.79
44:GA:314:ALA:HB3	44:GA:380:ASN:HB3	1.64	0.79
45:GD:289:LEU:HD13	45:GD:365:VAL:HG23	1.65	0.79
45:GD:334:GLN:HA	45:GD:341:PHE:CE2	2.17	0.79
44:HA:173:PRO:HG2	44:HA:391:LEU:HD11	1.65	0.79
45:HF:331:LEU:HD12	45:HF:334:GLN:HE21	1.47	0.79
44:HK:223:THR:HB	45:HL:322:SER:HA	1.64	0.79
45:ID:13:GLY:HA3	45:ID:137:HIS:HA	1.63	0.79
44:IE:79:ARG:HG3	44:IE:92:LEU:HD22	1.65	0.79
45:JB:404:ASP:OD1	45:JB:405:GLU:N	2.15	0.79
45:KH:36:TYR:CE1	45:KH:44:LEU:HD12	2.17	0.79
44:KK:55:GLU:HG3	44:KK:57:GLY:H	1.47	0.79
45:KN:236:VAL:HG13	45:KN:237:THR:HG23	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:214:ARG:HH21	44:LA:215:ARG:HG2	1.47	0.79
45:LL:152:ILE:HG23	45:LL:164:MET:HE1	1.63	0.79
45:NB:237:THR:HG22	45:NB:250:LEU:HD21	1.63	0.79
44:NK:414:GLU:OE1	44:NK:416:GLY:N	2.16	0.79
45:NL:302:ALA:HB3	45:NL:377:MET:SD	2.22	0.79
44:OC:104:ALA:HA	44:OC:413:MET:CE	2.13	0.79
44:OC:430:LYS:HA	44:OC:433:GLU:HG2	1.64	0.79
44:OK:100:ALA:HA	45:OL:252:LYS:HG2	1.63	0.79
45:PH:304:ASP:OD2	45:PH:306:ARG:NH1	2.16	0.79
44:QA:273:ALA:O	44:QA:375:VAL:N	2.13	0.79
44:QA:310:GLY:HA3	44:QA:383:ALA:HB2	1.64	0.79
45:QH:65:LEU:HD22	45:QH:90:PHE:HE1	1.48	0.79
45:QN:166:THR:O	45:QN:200:MET:N	2.16	0.79
45:RF:130:LEU:HB3	45:RF:162:ARG:HD2	1.64	0.79
44:RI:164:LYS:HD3	44:RI:165:SER:H	1.48	0.79
45:RL:405:GLU:O	45:RL:409:THR:HG23	1.83	0.79
45:SB:146:GLY:O	45:SB:150:LEU:N	2.15	0.79
44:SK:332:ILE:HA	44:SK:335:ILE:HD13	1.64	0.79
45:SL:323:THR:HG21	44:SM:224:TYR:H	1.46	0.79
44:SM:8:HIS:O	44:SM:68:LEU:N	2.15	0.79
45:TD:420:SER:O	45:TD:424:GLN:N	2.15	0.79
44:TE:89:PRO:HG3	44:UE:280:LYS:HD2	1.64	0.79
44:TI:88:HIS:CE1	44:TI:90:GLU:HG2	2.18	0.79
44:UE:386:GLU:O	44:UE:389:SER:OG	2.00	0.79
45:UF:330:MET:O	45:UF:334:GLN:N	2.15	0.79
45:UJ:113:ILE:O	45:UJ:116:VAL:HG12	1.82	0.79
45:UL:2:ARG:NH2	45:UL:240:LEU:HG	1.97	0.79
44:UM:262:TYR:OH	45:UN:391:ARG:O	2.00	0.79
44:VC:259:LEU:O	44:VC:380:ASN:ND2	2.14	0.79
45:VD:200:MET:SD	45:VD:268:ILE:HD13	2.23	0.79
45:VF:309:ARG:HG3	45:VF:426:GLN:HE21	1.46	0.79
44:VI:215:ARG:NH2	44:VI:300:ASN:OD1	2.15	0.79
45:VL:267:MET:HE1	45:VL:301:CYS:HB2	1.64	0.79
44:WC:10:GLY:O	44:WC:14:ILE:HD12	1.83	0.79
44:WC:103:PHE:HB2	44:WC:186:ASN:HB3	1.65	0.79
45:WN:200:MET:HE1	45:WN:268:ILE:N	1.96	0.79
16:1X:3:ARG:NH2	44:ME:247:ALA:O	2.15	0.79
31:2H:203:LYS:HD2	44:AC:225:THR:HG21	1.65	0.79
2:3A:150:LEU:HA	35:6R:78:ILE:HD12	1.65	0.79
37:5A:75:TYR:HD2	45:NB:357:PRO:HG3	1.46	0.79
37:5D:26:LYS:HD2	45:KN:398:TYR:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:73:LEU:HB3	11:5Q:169:ASP:OD1	1.82	0.79
40:6F:72:GLN:OE1	45:JF:362:LYS:NZ	2.15	0.79
41:6G:95:VAL:HG21	44:UK:110:ILE:HG22	1.65	0.79
42:8L:19:UNK:O	42:8L:22:UNK:N	2.16	0.79
45:AB:166:THR:OG1	45:AB:198:GLU:O	1.99	0.79
45:AB:405:GLU:O	45:AB:409:THR:N	2.16	0.79
44:AK:98:ASP:O	44:AK:105:ARG:NH1	2.15	0.79
44:BE:224:TYR:CZ	45:BF:323:THR:HG21	2.18	0.79
45:BF:130:LEU:HD11	45:BF:133:PHE:HE1	1.48	0.79
45:BJ:241:ARG:HG3	45:BJ:242:PHE:HD1	1.48	0.79
44:CA:102:ASN:ND2	44:CA:105:ARG:HG3	1.97	0.79
45:DB:107:THR:HG21	45:DB:401:GLU:HB3	1.65	0.79
45:DD:268:ILE:HG22	45:DD:368:VAL:HA	1.64	0.79
45:DF:86:ARG:HD2	45:EF:281:TYR:HD1	1.48	0.79
44:DK:203:MET:HG3	44:DK:384:ILE:HD11	1.65	0.79
44:EC:280:LYS:HA	44:EC:283:HIS:HD2	1.48	0.79
45:ED:239:CYS:HB3	45:ED:354:CYS:SG	2.23	0.79
44:EE:207:GLU:HA	44:EE:210:TYR:CD2	2.18	0.79
45:EF:32:PRO:HG3	45:EF:81:PHE:CE1	2.17	0.79
44:EK:269:LEU:HB2	44:EK:303:ALA:HB3	1.63	0.79
44:EM:101:ASN:HA	44:EM:144:GLY:HA3	1.63	0.79
45:FD:133:PHE:HB2	45:FD:164:MET:CE	2.13	0.79
45:FD:319:GLY:HA3	45:FD:363:MET:HE1	1.65	0.79
44:FG:235:ILE:O	44:FG:239:THR:HG22	1.83	0.79
45:FN:217:LEU:HD11	45:FN:220:PRO:HG3	1.65	0.79
44:GC:131:GLY:O	44:GC:133:GLN:NE2	2.15	0.79
45:HB:342:VAL:HG11	45:HB:345:ILE:HG23	1.63	0.79
44:HE:89:PRO:HG2	44:IE:280:LYS:CG	2.11	0.79
44:HG:284:GLU:HG3	44:HG:286:LEU:HD22	1.65	0.79
45:IN:200:MET:HG2	45:IN:266:PHE:HB2	1.65	0.79
45:JB:133:PHE:HB2	45:JB:164:MET:CB	2.13	0.79
45:JH:202:ILE:HD11	45:JH:268:ILE:HD11	1.65	0.79
44:JI:68:LEU:HD23	44:JI:93:ILE:HB	1.64	0.79
44:JK:66:VAL:HG11	44:JK:122:ILE:HD11	1.63	0.79
44:KI:209:ILE:HA	44:KI:212:ILE:HG22	1.63	0.79
44:KM:226:ASN:OD1	44:KM:227:LEU:N	2.15	0.79
44:LC:298:PRO:HG3	44:LC:308:ARG:HH21	1.48	0.79
45:LD:14:ASN:OD1	45:LD:15:GLN:N	2.16	0.79
45:LH:156:ARG:NH1	45:LH:197:ASP:OD1	2.16	0.79
44:LI:324:VAL:HG12	44:LI:325:PRO:HD2	1.65	0.79
44:LK:210:TYR:CE1	45:LL:324:LYS:HE2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:313:ALA:HA	45:LN:369:GLY:HA2	1.62	0.79
44:MA:2:ARG:HD3	44:MA:242:LEU:HD11	1.64	0.79
45:MB:423:GLN:NE2	45:MB:427:ASP:OD2	2.16	0.79
45:MH:8:GLN:OE1	45:MH:17:GLY:HA3	1.83	0.79
44:MM:320:ARG:HA	44:MM:356:ASN:O	1.82	0.79
45:ND:96:GLY:O	45:ND:103:LYS:NZ	2.15	0.79
44:NI:47:ASP:HB3	44:NI:50:ASN:HB2	1.63	0.79
44:NK:417:GLU:OE1	44:NK:417:GLU:N	2.16	0.79
45:NL:317:PHE:HB2	45:NL:353:ILE:HD13	1.64	0.79
45:NL:325:GLU:HA	45:NL:328:GLU:CG	2.13	0.79
45:NN:171:PRO:HG2	45:NN:181:GLU:OE2	1.82	0.79
45:OF:135:ILE:N	45:OF:165:GLU:O	2.15	0.79
44:OG:209:ILE:CD1	44:OG:227:LEU:HD23	2.12	0.79
44:PC:276:ILE:HD13	44:PC:281:ALA:HA	1.65	0.79
44:PK:34:GLY:O	44:PK:60:LYS:HA	1.82	0.79
45:PL:237:THR:HG23	45:PL:241:ARG:NH1	1.97	0.79
44:QC:206:ASN:HA	44:QC:209:ILE:HG12	1.62	0.79
45:QL:138:SER:HA	45:QL:169:VAL:HB	1.64	0.79
45:QL:314:SER:CB	45:QL:350:LYS:HE3	2.13	0.79
44:RG:6:SER:OG	44:RG:64:ARG:O	2.00	0.79
44:RI:88:HIS:HB3	44:RI:91:GLN:HG2	1.65	0.79
45:SB:331:LEU:HD22	44:SC:177:VAL:CG2	2.13	0.79
45:SD:135:ILE:HG22	45:SD:165:GLU:O	1.83	0.79
44:SE:141:VAL:HG11	44:SE:172:TYR:HD1	1.48	0.79
44:SK:278:ALA:HB2	44:SK:369:ALA:CB	2.13	0.79
44:TC:280:LYS:HA	44:TC:283:HIS:CD2	2.18	0.79
44:TG:2:ARG:O	44:TG:51:THR:HA	1.83	0.79
44:TI:89:PRO:HD3	44:UI:283:HIS:ND1	1.97	0.79
45:TL:105:HIS:HD2	45:TL:150:LEU:HD12	1.48	0.79
45:TL:324:LYS:HD3	44:TM:222:PRO:CG	2.12	0.79
45:TN:212:PHE:O	45:TN:216:LYS:HA	1.83	0.79
44:UA:20:CYS:HA	44:UA:232:ALA:HB1	1.65	0.79
45:UB:46:ARG:NH2	44:UC:76:ASP:OD2	2.16	0.79
45:UD:8:GLN:HE21	45:UD:65:LEU:HA	1.48	0.79
44:UG:13:GLY:O	44:UG:17:GLY:N	2.16	0.79
45:UJ:245:GLN:O	44:UK:15:GLN:NE2	2.16	0.79
45:UJ:296:ALA:HA	45:UJ:299:MET:CE	2.13	0.79
45:UJ:372:THR:HA	45:UJ:422:TYR:CE2	2.11	0.79
45:VB:254:ALA:HA	45:VB:258:ILE:HD13	1.63	0.79
44:VI:54:SER:HB3	44:VI:64:ARG:HH21	1.48	0.79
45:VJ:113:ILE:HA	45:VJ:116:VAL:HG12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:290:GLU:HA	44:VK:293:ASN:HB2	1.65	0.79
44:VM:404:PHE:CE1	45:VN:259:PRO:HA	2.17	0.79
45:WD:11:GLN:HB3	48:WD:501:GDP:O1A	1.82	0.79
44:WG:37:PRO:HB2	44:WG:40:LYS:CB	2.11	0.79
1:6H:266:LYS:NZ	44:FE:364:PRO:HG2	1.98	0.79
12:OS:121:CYS:HB2	45:AB:427:ASP:OD2	1.82	0.79
8:1G:180:PRO:CB	45:LD:174:LYS:HE2	2.13	0.79
22:2L:548:ARG:HH11	44:BM:365:GLY:H	1.28	0.79
37:5D:20:LEU:HD13	45:KN:419:VAL:N	1.96	0.79
37:5D:58:TYR:CD2	45:KN:180:VAL:HA	2.17	0.79
35:6R:446:PHE:HE1	35:6R:487:GLU:HG3	1.48	0.79
35:7R:261:LEU:HB2	35:7R:350:PHE:HE2	1.48	0.79
44:AI:319:TYR:HB2	44:AI:355:ILE:HD13	1.64	0.79
44:AK:276:ILE:CD1	44:AK:281:ALA:HA	2.12	0.79
44:AM:141:VAL:HG11	44:AM:172:TYR:HD1	1.48	0.79
45:AN:68:LEU:HD13	45:AN:147:MET:HE1	1.63	0.79
45:AN:135:ILE:O	45:AN:166:THR:HA	1.83	0.79
45:BN:290:THR:HA	45:BN:293:MET:HE2	1.65	0.79
45:CD:262:ARG:HH22	45:CD:421:GLU:HB3	1.48	0.79
44:CG:141:VAL:HG11	44:CG:172:TYR:CD1	2.18	0.79
44:CK:141:VAL:HG23	44:CK:147:SER:HB2	1.63	0.79
45:CL:410:GLU:O	45:CL:413:SER:OG	2.01	0.79
44:CM:47:ASP:HA	44:CM:50:ASN:ND2	1.97	0.79
45:CN:130:LEU:HD11	45:CN:133:PHE:HE1	1.46	0.79
45:DD:319:GLY:N	45:DD:354:CYS:O	2.16	0.79
45:DH:28:HIS:NE2	45:DH:241:ARG:HD2	1.97	0.79
45:DH:139:LEU:HD12	45:DH:188:SER:CB	2.12	0.79
44:DK:259:LEU:HD11	44:DK:316:SER:HB3	1.63	0.79
44:EA:312:TYR:HA	44:EA:381:SER:CB	2.13	0.79
44:EC:103:PHE:N	44:EC:408:TYR:OH	2.14	0.79
45:EH:314:SER:CB	45:EH:350:LYS:HB3	2.13	0.79
45:EN:380:ARG:HA	45:EN:383:GLU:HB3	1.65	0.79
44:FC:222:PRO:HD2	45:FD:324:LYS:CD	2.13	0.79
44:FC:291:ILE:O	44:FC:294:SER:OG	2.00	0.79
44:FE:178:SER:OG	44:FE:183:GLU:OE2	2.00	0.79
44:FE:271:SER:HA	44:FE:302:MET:HG3	1.63	0.79
44:GA:71:GLU:OE2	45:GB:2:ARG:NH2	2.16	0.79
44:GE:97:GLU:OE1	45:GF:131:GLN:NE2	2.14	0.79
44:GI:14:ILE:HD11	44:GI:69:ASP:HB2	1.65	0.79
45:HB:31:ASP:O	45:HB:34:GLY:N	2.16	0.79
45:HD:42:LEU:HA	45:HD:45:GLU:HG3	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:276:ILE:HD11	44:HK:280:LYS:HE2	1.64	0.79
45:HN:203:ASP:OD2	45:HN:302:ALA:N	2.14	0.79
44:II:284:GLU:HG3	44:II:286:LEU:CD2	2.13	0.79
45:JD:131:GLN:HE22	45:JD:250:LEU:HB2	1.47	0.79
45:JH:254:ALA:O	45:JH:258:ILE:HG12	1.82	0.79
44:JI:178:SER:OG	45:JJ:347:ASN:ND2	2.15	0.79
44:JM:174:SER:OG	44:JM:177:VAL:O	2.01	0.79
44:KG:241:SER:OG	44:KG:250:VAL:O	1.99	0.79
44:LG:80:THR:O	44:LG:84:ARG:NH1	2.16	0.79
44:LM:161:TYR:HB3	44:LM:164:LYS:CB	2.13	0.79
45:MB:204:ASN:HA	45:MB:207:LEU:HD12	1.65	0.79
44:MC:224:TYR:HE2	45:MD:246:LEU:HD11	1.48	0.79
45:MD:285:THR:O	45:MD:288:GLU:HG3	1.83	0.79
45:MF:20:PHE:HB2	45:MF:233:MET:HE1	1.65	0.79
45:NB:150:LEU:O	45:NB:153:SER:OG	1.99	0.79
44:NC:174:SER:HB2	44:NC:177:VAL:O	1.83	0.79
45:ND:156:ARG:NH1	45:ND:194:GLU:O	2.16	0.79
45:NH:309:ARG:NH1	45:NH:427:ASP:HA	1.97	0.79
45:NL:77:ARG:O	45:NL:83:GLN:NE2	2.16	0.79
45:NL:396:HIS:HA	45:NL:399:THR:HG22	1.64	0.79
44:NM:319:TYR:HB2	44:NM:355:ILE:CG2	2.11	0.79
45:NN:201:VAL:O	45:NN:202:ILE:HD13	1.82	0.79
45:NN:314:SER:HB3	45:NN:368:VAL:HG13	1.63	0.79
44:OG:195:LEU:O	44:OG:266:HIS:NE2	2.15	0.79
45:PN:114:ASP:OD1	45:PN:115:SER:N	2.16	0.79
45:QB:51:TYR:HB3	45:QB:59:TYR:HB3	1.63	0.79
44:QC:304:LYS:HD2	44:QC:304:LYS:O	1.83	0.79
45:QF:11:GLN:O	45:QF:15:GLN:N	2.14	0.79
45:QF:69:GLU:OE1	45:QF:71:GLY:N	2.16	0.79
45:QF:130:LEU:HD13	45:QF:162:ARG:CD	2.11	0.79
44:QG:145:THR:HG22	46:QG:501:GTP:PG	2.22	0.79
44:QG:296:PHE:HE2	44:QG:335:ILE:HG21	1.48	0.79
45:QH:113:ILE:CD1	45:QH:150:LEU:HD22	2.13	0.79
44:QK:89:PRO:HG3	44:RK:280:LYS:CD	2.08	0.79
44:QM:36:MET:HG2	44:QM:37:PRO:HD2	1.65	0.79
44:RA:174:SER:HB2	44:RA:177:VAL:HG12	1.63	0.79
44:RA:248:LEU:HB3	44:RA:355:ILE:HB	1.65	0.79
45:RD:166:THR:OG1	45:RD:198:GLU:O	1.99	0.79
44:RE:191:THR:HA	44:RE:194:LEU:HG	1.65	0.79
45:RH:262:ARG:HG3	45:RH:263:LEU:HD12	1.62	0.79
44:RM:297:GLU:OE2	44:RM:300:ASN:ND2	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:321:GLY:O	44:RM:357:TYR:HA	1.82	0.79
45:SB:250:LEU:O	45:SB:254:ALA:N	2.14	0.79
45:SB:319:GLY:N	45:SB:354:CYS:O	2.16	0.79
44:SE:99:ALA:N	44:SE:145:THR:HG23	1.98	0.79
45:SJ:5:VAL:HG12	45:SJ:62:ARG:HD3	1.64	0.79
45:SJ:260:PHE:HA	44:SK:406:HIS:NE2	1.98	0.79
44:SK:66:VAL:HG11	44:SK:122:ILE:HD11	1.65	0.79
45:SN:312:THR:O	45:SN:370:ASN:N	2.13	0.79
44:TA:133:GLN:HB3	44:TA:252:ILE:HD12	1.65	0.79
44:TC:258:ASN:HA	45:TD:179:VAL:HG21	1.65	0.79
45:TJ:97:ALA:HA	45:TJ:103:LYS:HE3	1.63	0.79
45:TJ:248:SER:HB3	45:TJ:252:LYS:HD2	1.63	0.79
44:UA:217:LEU:HB3	44:UA:219:ILE:HG13	1.62	0.79
45:UD:288:GLU:O	45:UD:291:GLN:HG3	1.81	0.79
45:UJ:99:ASN:HA	45:UJ:142:GLY:HA3	1.64	0.79
44:VC:276:ILE:HD11	44:VC:280:LYS:HG3	1.65	0.79
44:VI:301:MET:HG3	44:VI:307:PRO:HD3	1.65	0.79
44:VK:188:ILE:HG23	44:VK:425:LEU:HD11	1.62	0.79
44:VM:316:SER:HB3	44:VM:378:ILE:HB	1.63	0.79
44:WE:307:PRO:HB2	44:WE:312:TYR:OH	1.83	0.79
45:WJ:249:ASP:OD1	45:WJ:252:LYS:N	2.14	0.79
44:WK:372:MET:C	44:WK:373:ARG:HD2	2.02	0.79
1:6H:174:MET:N	45:FB:320:ARG:HD2	1.97	0.78
5:0D:84:SER:HB2	45:EB:355:ASP:HB3	1.63	0.78
37:5D:92:VAL:CG2	44:KM:309:HIS:HA	2.12	0.78
11:5Q:69:LEU:O	11:5Q:69:LEU:HD23	1.82	0.78
41:6G:167:ILE:HD13	45:VH:205:GLU:OE2	1.83	0.78
41:6G:305:THR:O	45:VB:306:ARG:NH2	2.16	0.78
35:6R:300:PHE:CG	45:CN:77:ARG:CZ	2.66	0.78
44:AC:349:THR:OG1	45:AF:176:SER:OG	2.00	0.78
45:AF:7:ILE:CD1	45:AF:64:ILE:HB	2.13	0.78
44:AK:64:ARG:NH1	44:AK:129:CYS:SG	2.56	0.78
45:AL:45:GLU:HG3	45:AL:46:ARG:HG2	1.65	0.78
44:BC:322:ASP:OD1	44:BC:373:ARG:NE	2.14	0.78
45:BL:239:CYS:SG	45:BL:248:SER:N	2.56	0.78
44:BM:115:VAL:HG11	44:BM:152:LEU:CD2	2.11	0.78
44:BM:308:ARG:NH2	44:BM:340:THR:OG1	2.15	0.78
44:CA:70:LEU:HA	44:CA:95:GLY:H	1.49	0.78
45:CN:116:VAL:O	45:CN:120:VAL:HG23	1.83	0.78
44:DA:275:ILE:HG23	44:DA:368:LEU:HD21	1.65	0.78
44:EA:141:VAL:HG12	44:EA:171:ILE:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:371:SER:O	45:EF:374:ILE:HG23	1.81	0.78
45:EL:113:ILE:HD13	45:EL:150:LEU:HD22	1.65	0.78
44:EM:326:LYS:HE2	45:EN:220:PRO:HD2	1.63	0.78
44:EM:423:GLU:HA	44:EM:426:ALA:HB3	1.65	0.78
44:FG:276:ILE:HG21	44:FG:281:ALA:HA	1.64	0.78
45:FJ:275:SER:O	45:FJ:278:SER:N	2.16	0.78
44:FK:362:VAL:HG11	44:FK:370:LYS:HA	1.65	0.78
44:GA:259:LEU:O	44:GA:380:ASN:ND2	2.16	0.78
45:GD:203:ASP:OD2	45:GD:302:ALA:N	2.14	0.78
44:GE:200:VAL:CG2	44:GE:256:GLN:HB3	2.12	0.78
45:GH:83:GLN:O	45:HH:281:TYR:OH	2.01	0.78
45:GN:308:GLY:HA2	45:GN:426:GLN:HE22	1.48	0.78
44:HE:76:ASP:OD2	45:HF:46:ARG:NH2	2.16	0.78
44:HE:288:VAL:HG11	44:HE:327:ASP:HB3	1.63	0.78
44:HK:270:SER:OG	44:HK:302:MET:SD	2.41	0.78
44:HK:332:ILE:O	44:HK:336:LYS:N	2.16	0.78
44:IG:184:PRO:HB3	44:IG:394:LYS:HD2	1.65	0.78
44:JA:180:ALA:HB3	44:JA:183:GLU:HB3	1.65	0.78
45:JB:198:GLU:OE2	45:JB:200:MET:HG3	1.82	0.78
44:JE:392:ASP:OD2	44:JE:422:ARG:NH1	2.16	0.78
45:JF:49:VAL:HG21	45:JF:241:ARG:HG2	1.64	0.78
44:JM:140:SER:OG	46:JM:501:GTP:O2B	2.01	0.78
44:MA:295:ALA:HB1	44:MA:377:MET:SD	2.22	0.78
44:MC:71:GLU:OE1	44:MC:73:THR:OG1	1.99	0.78
44:MC:384:ILE:O	44:MC:387:VAL:HG22	1.83	0.78
44:MK:109:THR:OG1	44:MK:411:GLU:OE2	2.01	0.78
44:MM:36:MET:CG	44:MM:37:PRO:HD2	2.13	0.78
45:NF:293:MET:HE3	45:NF:367:PHE:HB2	1.63	0.78
44:NG:212:ILE:HD13	44:NG:300:ASN:OD1	1.83	0.78
45:NH:170:VAL:HG11	45:NH:377:MET:SD	2.23	0.78
44:NM:363:VAL:O	44:NM:366:GLY:N	2.14	0.78
44:OA:27:GLU:OE2	44:OA:361:THR:OG1	2.00	0.78
45:OD:198:GLU:HG2	45:OD:266:PHE:HE2	1.48	0.78
45:OF:77:ARG:HD3	45:OF:90:PHE:CE2	2.18	0.78
44:OK:141:VAL:HG11	44:OK:172:TYR:HD1	1.47	0.78
45:QB:318:ARG:HB3	45:QB:358:PRO:HD3	1.64	0.78
44:RG:201:ALA:N	44:RG:266:HIS:O	2.16	0.78
44:RG:264:ARG:HH22	44:RG:428:LEU:HA	1.45	0.78
44:RK:192:HIS:O	44:RK:195:LEU:HD22	1.83	0.78
45:RL:164:MET:N	45:RL:197:ASP:OD2	2.15	0.78
45:RN:387:ALA:O	45:RN:390:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:325:PRO:O	44:SA:329:ASN:N	2.11	0.78
45:SF:113:ILE:HA	45:SF:116:VAL:HG12	1.65	0.78
45:SF:247:ASN:ND2	44:SG:71:GLU:OE1	2.16	0.78
45:SH:199:CYS:O	45:SH:265:PHE:HA	1.81	0.78
45:SN:202:ILE:CG2	45:SN:207:LEU:HD21	2.13	0.78
44:TE:324:VAL:HG13	44:TE:325:PRO:HD2	1.63	0.78
45:TF:132:GLY:HA3	45:TF:163:ILE:O	1.82	0.78
45:TH:324:LYS:HD3	44:TI:222:PRO:CG	2.13	0.78
45:TJ:52:ASN:OD1	45:TJ:62:ARG:NH2	2.16	0.78
44:TM:390:ARG:O	44:TM:394:LYS:N	2.12	0.78
44:UA:317:MET:N	44:UA:352:LYS:O	2.13	0.78
45:UB:268:ILE:HG22	45:UB:368:VAL:HG22	1.64	0.78
44:UE:311:LYS:N	44:UE:382:THR:HG1	1.81	0.78
45:UF:375:GLN:OE1	45:UF:423:GLN:HB3	1.83	0.78
44:UG:344:VAL:CG1	44:UG:347:CYS:HB3	2.11	0.78
44:VM:60:LYS:NZ	44:VM:85:GLN:O	2.16	0.78
44:WA:257:THR:HG22	45:WD:397:TRP:HZ3	1.47	0.78
45:WH:386:THR:HG23	45:WH:389:PHE:CB	2.13	0.78
4:OC:80:ARG:HH12	45:EH:359:LYS:HG3	1.46	0.78
5:2D:9:TYR:O	44:CK:84:ARG:NH2	2.16	0.78
21:2K:212:ARG:NH2	44:GM:278:ALA:O	2.16	0.78
15:3V:70:THR:HA	45:LB:121:ARG:HE	1.47	0.78
35:7R:497:GLN:HA	35:7R:502:ARG:HA	1.64	0.78
44:AA:161:TYR:HB3	44:AA:164:LYS:NZ	1.98	0.78
45:AB:20:PHE:O	45:AB:24:ILE:HD12	1.81	0.78
45:AB:406:MET:HA	45:AB:409:THR:HB	1.66	0.78
45:AH:52:ASN:OD1	45:AH:62:ARG:NH2	2.16	0.78
44:BA:1:MET:HE1	45:BD:94:GLN:HG2	1.63	0.78
45:BD:191:GLN:O	45:BD:194:GLU:HG3	1.84	0.78
45:BH:40:SER:N	45:BH:43:GLN:OE1	2.15	0.78
45:CB:5:VAL:HA	45:CB:62:ARG:CD	2.12	0.78
45:CD:325:GLU:OE1	44:CE:221:ARG:NH1	2.16	0.78
44:CE:269:LEU:HD22	44:CE:303:ALA:HB3	1.63	0.78
45:CF:232:ALA:HB1	45:CF:268:ILE:HD12	1.63	0.78
44:CI:164:LYS:O	44:CI:166:LYS:NZ	2.17	0.78
44:CI:295:ALA:HB1	44:CI:377:MET:CE	2.12	0.78
45:CL:309:ARG:HD3	45:CL:342:VAL:HA	1.65	0.78
45:DB:318:ARG:N	45:DB:364:ALA:O	2.16	0.78
45:DH:271:ALA:O	45:DH:273:LEU:N	2.16	0.78
44:DI:225:THR:HA	44:DI:228:ASN:HD22	1.49	0.78
44:EE:176:GLN:NE2	44:EE:207:GLU:OE2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:217:LEU:HD11	45:EH:220:PRO:HG3	1.66	0.78
45:FB:398:TYR:HB3	45:FB:403:MET:CE	2.13	0.78
44:FE:270:SER:O	44:FE:302:MET:HB2	1.83	0.78
44:FG:261:PRO:HA	45:FJ:394:PHE:CD2	2.18	0.78
45:FH:130:LEU:HD11	45:FH:133:PHE:CE1	2.19	0.78
44:FI:326:LYS:HG2	45:FL:220:PRO:HD2	1.65	0.78
45:FL:73:MET:HE3	45:FL:92:PHE:HB3	1.64	0.78
45:GD:165:GLU:HG3	45:GD:250:LEU:HD11	1.65	0.78
44:GM:221:ARG:NH2	45:GN:321:MET:SD	2.56	0.78
44:II:172:TYR:HB3	44:II:173:PRO:HD2	1.66	0.78
44:II:276:ILE:HD12	44:II:281:ALA:HB1	1.65	0.78
45:IL:222:TYR:O	45:IL:226:ASN:ND2	2.15	0.78
45:JB:407:GLU:O	45:JB:411:ALA:N	2.13	0.78
45:JH:247:ASN:O	45:JH:252:LYS:NZ	2.14	0.78
44:JM:138:PHE:CD1	44:JM:169:PHE:HB2	2.18	0.78
44:KK:88:HIS:CE1	44:KK:90:GLU:HG2	2.17	0.78
44:KM:239:THR:HG23	44:KM:243:ARG:NH1	1.98	0.78
45:LD:198:GLU:OE2	45:LD:254:ALA:HB2	1.84	0.78
45:LJ:242:PHE:HD2	45:LJ:356:ILE:HB	1.47	0.78
44:LK:349:THR:OG1	45:LN:176:SER:HB2	1.83	0.78
45:LN:18:ALA:HB2	45:LN:76:VAL:HG23	1.64	0.78
45:MH:40:SER:OG	45:MH:43:GLN:HG3	1.83	0.78
44:MM:36:MET:HG3	44:MM:37:PRO:HD2	1.65	0.78
44:NC:207:GLU:CB	44:NC:304:LYS:HD2	2.12	0.78
44:NE:268:MET:CE	44:NE:378:ILE:HG22	2.13	0.78
44:NG:11:GLN:HG3	44:NG:74:VAL:HG11	1.65	0.78
44:NI:2:ARG:O	44:NI:51:THR:HA	1.82	0.78
44:OG:407:TRP:HZ3	45:OH:255:VAL:HG22	1.48	0.78
45:OH:101:TRP:CZ3	45:OH:187:LEU:HB3	2.18	0.78
45:OH:266:PHE:CD1	45:OH:370:ASN:HB2	2.18	0.78
45:OL:86:ARG:NH2	45:PL:278:SER:HB2	1.99	0.78
44:PK:205:ASP:OD1	44:PK:303:ALA:HA	1.82	0.78
44:PK:323:VAL:HA	44:PK:373:ARG:NH2	1.98	0.78
44:PM:87:PHE:HB3	44:PM:92:LEU:HD11	1.64	0.78
44:QC:202:VAL:HA	44:QC:268:MET:O	1.83	0.78
44:QC:206:ASN:O	44:QC:209:ILE:HG12	1.84	0.78
44:QG:175:PRO:HG2	44:QG:304:LYS:HG2	1.65	0.78
45:QH:263:LEU:HG	45:QH:422:TYR:CE1	2.18	0.78
45:QH:350:LYS:HD3	44:QI:180:ALA:HA	1.64	0.78
45:RB:255:VAL:HA	44:RC:407:TRP:CZ3	2.18	0.78
44:RC:141:VAL:HG12	44:RC:171:ILE:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:272:TYR:CD1	44:RC:376:CYS:HB2	2.18	0.78
44:RC:320:ARG:CZ	44:RC:360:PRO:HG3	2.13	0.78
45:RD:12:CYS:HA	45:RD:15:GLN:NE2	1.98	0.78
45:RF:2:ARG:NH2	44:RG:73:THR:OG1	2.16	0.78
45:SB:373:ALA:HB2	45:SB:377:MET:HE1	1.62	0.78
44:TE:325:PRO:HB3	44:TE:355:ILE:CD1	2.13	0.78
45:TF:55:THR:HG21	45:UF:284:LEU:HD12	1.65	0.78
45:TH:252:LYS:HG2	45:TH:350:LYS:HE2	1.62	0.78
45:TJ:8:GLN:NE2	45:TJ:14:ASN:HA	1.98	0.78
44:TM:270:SER:HB2	44:TM:377:MET:O	1.83	0.78
44:UC:212:ILE:CG2	44:UC:275:ILE:HD12	2.12	0.78
45:UH:101:TRP:HB3	45:UH:398:TYR:HE1	1.47	0.78
45:UH:184:ASN:O	45:UH:188:SER:N	2.16	0.78
45:UH:187:LEU:HD11	45:UH:408:PHE:HE1	1.47	0.78
44:UI:60:LYS:NZ	44:UI:85:GLN:O	2.15	0.78
44:UK:288:VAL:HA	44:UK:291:ILE:HD11	1.63	0.78
44:VC:60:LYS:NZ	44:VC:85:GLN:O	2.16	0.78
45:VD:337:ASN:HB3	45:VD:340:TYR:CB	2.12	0.78
45:VF:342:VAL:HG23	45:VF:348:ASN:CB	2.10	0.78
44:VG:204:LEU:HD23	44:VG:302:MET:CG	2.13	0.78
45:VN:207:LEU:HD22	45:VN:228:LEU:HD12	1.65	0.78
45:WB:317:PHE:HA	45:WB:365:VAL:HG22	1.64	0.78
44:WE:3:GLU:O	44:WE:133:GLN:N	2.15	0.78
45:WJ:142:GLY:N	48:WJ:502:GDP:O2B	2.14	0.78
44:WK:224:TYR:HE2	45:WL:246:LEU:HD11	1.46	0.78
45:WL:182:PRO:O	45:WL:186:THR:OG1	2.00	0.78
44:WM:175:PRO:HG3	44:WM:304:LYS:CD	2.11	0.78
1:6H:210:VAL:HG11	45:FD:276:ARG:HH21	1.33	0.78
5:2D:209:LYS:NZ	35:5R:434:ASN:OD1	2.14	0.78
22:2L:672:THR:HG22	45:CL:320:ARG:HH12	1.47	0.78
26:2R:71:THR:HG21	44:MG:77:GLU:HG2	1.61	0.78
15:3V:98:LEU:HB3	44:LA:402:ARG:HH22	1.48	0.78
37:5D:45:TYR:HA	44:KK:262:TYR:OH	1.83	0.78
37:5D:54:ARG:HH11	44:KK:439:THR:H	1.29	0.78
37:5D:58:TYR:HE2	45:KN:180:VAL:HG22	1.42	0.78
39:5K:87:SER:OG	39:5K:88:PRO:HD3	1.82	0.78
35:5R:44:TYR:O	35:5R:45:ILE:HD13	1.83	0.78
35:6R:538:PHE:CE1	35:6R:578:TYR:HD1	1.93	0.78
44:AC:141:VAL:HG22	44:AC:187:SER:HA	1.65	0.78
44:AC:275:ILE:HG23	44:AC:368:LEU:HD11	1.64	0.78
44:AI:64:ARG:NH1	44:AI:129:CYS:SG	2.56	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:113:ILE:HA	45:AN:116:VAL:HG12	1.64	0.78
45:CB:178:THR:N	45:CB:181:GLU:OE2	2.15	0.78
45:CD:286:VAL:HG22	45:CD:321:MET:HE3	1.65	0.78
45:CJ:248:SER:HA	45:CJ:252:LYS:HE2	1.66	0.78
45:DB:107:THR:CG2	45:DB:401:GLU:HB3	2.13	0.78
45:DH:350:LYS:NZ	45:DH:351:SER:O	2.16	0.78
44:EA:11:GLN:HG3	44:EA:74:VAL:HG11	1.65	0.78
45:EB:30:ILE:HD11	45:EB:47:ILE:HD11	1.64	0.78
45:EB:137:HIS:O	45:EB:168:SER:HA	1.84	0.78
45:EB:410:GLU:O	45:EB:413:SER:OG	2.01	0.78
45:ED:66:MET:SD	45:ED:91:VAL:HG23	2.23	0.78
44:EG:11:GLN:HA	44:EG:14:ILE:HD12	1.66	0.78
44:EM:269:LEU:N	44:EM:379:SER:O	2.16	0.78
45:FB:97:ALA:CB	45:FB:143:THR:HB	2.13	0.78
44:FG:73:THR:HG21	45:FH:243:PRO:HA	1.66	0.78
44:FI:109:THR:HG23	44:FI:110:ILE:HG12	1.63	0.78
44:FI:223:THR:HG23	44:FI:225:THR:H	1.46	0.78
44:GA:270:SER:HB3	44:GA:378:ILE:HD12	1.65	0.78
44:GA:403:ALA:HA	45:GB:260:PHE:HE1	1.47	0.78
45:GH:211:CYS:HA	45:GH:215:LEU:HD12	1.65	0.78
45:GL:278:SER:HA	45:GL:281:TYR:HD2	1.49	0.78
44:HC:290:GLU:O	44:HC:294:SER:OG	1.99	0.78
44:HG:275:ILE:HG13	44:HG:368:LEU:CD1	2.13	0.78
44:HK:102:ASN:OD1	44:HK:105:ARG:N	2.15	0.78
44:JC:141:VAL:CG1	44:JC:187:SER:HA	2.13	0.78
45:JH:207:LEU:HD13	45:JH:225:LEU:HB3	1.63	0.78
44:JK:88:HIS:HB3	44:JK:91:GLN:HG2	1.65	0.78
45:JL:198:GLU:OE2	45:JL:254:ALA:HB2	1.83	0.78
44:JM:315:CYS:HA	44:JM:379:SER:HA	1.64	0.78
44:LA:286:LEU:N	44:LA:290:GLU:OE2	2.15	0.78
44:LE:69:ASP:OD1	44:LE:70:LEU:N	2.15	0.78
44:LG:7:ILE:HG21	44:LG:153:LEU:HD21	1.63	0.78
44:LM:434:GLU:O	44:LM:437:ILE:HG12	1.83	0.78
44:ME:184:PRO:O	44:ME:188:ILE:HG12	1.84	0.78
45:MN:52:ASN:OD1	45:MN:62:ARG:NE	2.14	0.78
45:OB:318:ARG:HB2	45:OB:364:ALA:HB3	1.64	0.78
45:ON:217:LEU:HD21	45:ON:220:PRO:HG3	1.63	0.78
45:PD:6:HIS:O	45:PD:7:ILE:HD13	1.83	0.78
45:QD:315:ALA:N	45:QD:350:LYS:O	2.17	0.78
45:QH:246:LEU:HD11	44:QI:224:TYR:HE2	1.47	0.78
44:QI:10:GLY:O	44:QI:14:ILE:HG13	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:97:ALA:HB3	45:QN:143:THR:HB	1.66	0.78
45:RB:1:MET:O	45:RB:2:ARG:HG2	1.84	0.78
44:RC:88:HIS:HB3	44:RC:91:GLN:HG2	1.65	0.78
45:RD:64:ILE:HG13	45:RD:89:ASN:ND2	1.98	0.78
45:RL:5:VAL:HG12	45:RL:62:ARG:HE	1.47	0.78
45:RL:143:THR:OG1	48:RL:501:GDP:O1B	2.02	0.78
45:SD:1:MET:HE2	44:SE:96:LYS:HB3	1.63	0.78
45:SD:5:VAL:HG12	45:SD:62:ARG:HD3	1.66	0.78
44:SK:275:ILE:HD11	44:SK:368:LEU:HD21	1.65	0.78
45:TD:222:TYR:HB3	48:TD:501:GDP:O6	1.83	0.78
45:TH:378:PHE:O	45:TH:382:ALA:N	2.16	0.78
44:TI:209:ILE:HG22	44:TI:227:LEU:HD22	1.66	0.78
44:TI:242:LEU:HD11	44:TI:252:ILE:HG13	1.64	0.78
45:TJ:207:LEU:HD13	45:TJ:225:LEU:HB3	1.63	0.78
45:TJ:344:TRP:HZ3	44:TK:403:ALA:HB2	1.48	0.78
45:UL:322:SER:HB2	44:UM:223:THR:HB	1.64	0.78
45:VF:73:MET:O	45:VF:76:VAL:HG12	1.83	0.78
45:VJ:7:ILE:HB	45:VJ:135:ILE:CD1	2.13	0.78
44:WE:51:THR:HG21	44:WE:243:ARG:HD3	1.64	0.78
44:WM:14:ILE:CD1	44:WM:69:ASP:HB2	2.14	0.78
44:WM:286:LEU:HG	44:WM:373:ARG:NH2	1.97	0.78
45:WN:97:ALA:HB3	45:WN:143:THR:HB	1.65	0.78
15:0V:24:ARG:HH22	44:MM:430:LYS:HG3	1.46	0.78
5:1D:81:ARG:NH2	45:EF:361:LEU:O	2.17	0.78
16:1X:99:VAL:HG22	44:MC:282:TYR:OH	1.82	0.78
12:2S:146:LYS:HA	44:WG:123:ARG:HH21	1.48	0.78
16:4X:1:MET:SD	44:LI:249:ASN:ND2	2.51	0.78
37:5D:117:PRO:HD2	44:NM:323:VAL:HG13	1.64	0.78
39:5I:95:LEU:HG	39:5I:98:LEU:HD12	1.63	0.78
35:5R:28:THR:HB	44:LG:46:ASP:HB2	1.64	0.78
35:5R:227:GLU:O	35:5R:230:GLU:HG3	1.83	0.78
35:5R:538:PHE:CE2	35:5R:578:TYR:HB2	2.18	0.78
41:6G:93:LYS:NZ	41:6G:94:VAL:O	2.16	0.78
45:AN:130:LEU:HD21	45:AN:133:PHE:CE1	2.18	0.78
44:BG:88:HIS:HB3	44:BG:91:GLN:CG	2.13	0.78
44:BG:145:THR:HG23	46:BG:501:GTP:O2G	1.83	0.78
45:CB:150:LEU:HD23	45:CB:154:LYS:HG3	1.63	0.78
45:CN:87:PRO:HA	45:CN:90:PHE:HD2	1.48	0.78
44:DC:288:VAL:HG11	44:DC:327:ASP:HB3	1.65	0.78
45:DF:8:GLN:NE2	45:DF:13:GLY:O	2.16	0.78
45:ED:299:MET:HG3	45:ED:305:PRO:HG3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:67:PHE:HB2	44:EI:92:LEU:HG	1.65	0.78
44:EK:143:GLY:HA3	46:EK:501:GTP:O2A	1.83	0.78
44:EM:247:ALA:HB3	44:EM:355:ILE:HG21	1.63	0.78
45:FB:262:ARG:NH2	45:FB:421:GLU:OE1	2.15	0.78
44:FI:221:ARG:HH11	45:FJ:325:GLU:HG3	1.48	0.78
44:FK:352:LYS:HA	45:FN:177:ASP:O	1.84	0.78
45:FL:97:ALA:HB2	45:FL:143:THR:HG23	1.64	0.78
44:FM:230:LEU:HA	44:FM:233:GLN:OE1	1.82	0.78
45:GB:217:LEU:HD11	45:GB:220:PRO:HG3	1.66	0.78
45:GN:385:PHE:O	45:GN:386:THR:OG1	1.99	0.78
45:HH:217:LEU:HD11	45:HH:220:PRO:HB3	1.64	0.78
45:HN:178:THR:N	45:HN:181:GLU:OE2	2.17	0.78
44:IA:352:LYS:NZ	45:ID:178:THR:OG1	2.14	0.78
44:IM:146:GLY:N	46:IM:501:GTP:O1B	2.16	0.78
44:IM:203:MET:HG3	44:IM:384:ILE:HD11	1.64	0.78
45:IN:296:ALA:HB2	45:IN:306:ARG:HH22	1.45	0.78
45:JH:32:PRO:HG3	45:JH:81:PHE:HE1	1.49	0.78
45:KD:109:GLY:HA3	45:KD:147:MET:CE	2.13	0.78
45:KF:60:VAL:HG22	45:KF:86:ARG:CZ	2.14	0.78
45:KH:19:LYS:O	45:KH:22:GLU:N	2.17	0.78
45:KH:238:CYS:HB2	45:KH:318:ARG:HH12	1.47	0.78
44:KK:268:MET:SD	44:KK:380:ASN:HB2	2.22	0.78
45:KN:325:GLU:OE1	45:KN:325:GLU:N	2.16	0.78
45:LB:101:TRP:HB3	45:LB:398:TYR:HE2	1.49	0.78
44:LK:222:PRO:CD	45:LL:324:LYS:HG3	2.12	0.78
44:MA:209:ILE:HG12	44:MA:227:LEU:HD22	1.64	0.78
45:MF:323:THR:O	45:MF:326:VAL:HG12	1.84	0.78
44:MK:71:GLU:OE1	44:MK:73:THR:OG1	2.01	0.78
45:NB:156:ARG:HD2	45:NB:164:MET:HE1	1.65	0.78
44:NI:276:ILE:HG21	44:NI:283:HIS:ND1	1.98	0.78
45:NL:14:ASN:ND2	45:NL:73:MET:SD	2.55	0.78
44:OE:5:ILE:HB	44:OE:135:PHE:CD1	2.16	0.78
45:OF:19:LYS:HA	45:OF:22:GLU:OE2	1.83	0.78
45:PN:193:VAL:HG21	45:PN:418:LEU:HD22	1.64	0.78
44:QE:22:GLU:O	44:QE:26:LEU:N	2.12	0.78
44:QE:71:GLU:OE1	44:QE:73:THR:OG1	2.01	0.78
45:QF:110:ALA:O	45:QF:113:ILE:HG22	1.83	0.78
45:QH:237:THR:O	45:QH:241:ARG:NE	2.16	0.78
44:QI:208:ALA:HA	44:QI:304:LYS:HZ3	1.49	0.78
45:RH:68:LEU:HD23	45:RH:97:ALA:HB2	1.64	0.78
45:RH:346:PRO:HD2	44:RI:398:MET:HE1	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:258:ASN:HD21	45:RJ:178:THR:HG23	1.48	0.78
45:SB:21:TRP:O	45:SB:25:SER:N	2.16	0.78
44:SE:174:SER:OG	44:SE:206:ASN:OD1	1.99	0.78
45:SH:303:ALA:N	45:SH:377:MET:HE1	1.99	0.78
44:TC:30:ILE:HG23	44:TC:34:GLY:HA2	1.65	0.78
45:TL:335:ASN:HA	45:TL:338:SER:CB	2.12	0.78
44:TM:54:SER:HB3	44:TM:64:ARG:HH22	1.47	0.78
45:UB:318:ARG:HG2	45:UB:354:CYS:HB3	1.64	0.78
44:UE:102:ASN:HB3	44:UE:105:ARG:HB2	1.65	0.78
44:UE:439:THR:HG21	45:UF:390:ARG:HD2	1.64	0.78
44:UM:102:ASN:HB3	44:UM:105:ARG:HG3	1.65	0.78
44:VA:202:VAL:HA	44:VA:268:MET:O	1.83	0.78
44:VC:15:GLN:NE2	45:VD:245:GLN:O	2.16	0.78
44:VC:90:GLU:O	44:VC:121:ARG:NH2	2.15	0.78
44:VC:262:TYR:HB3	44:VC:263:PRO:HD2	1.65	0.78
44:VI:135:PHE:O	44:VI:136:LEU:HD23	1.84	0.78
44:VM:174:SER:HB3	44:VM:207:GLU:HB2	1.63	0.78
45:WD:135:ILE:HG13	45:WD:152:ILE:HD11	1.65	0.78
44:WK:261:PRO:HA	45:WN:394:PHE:CE1	2.17	0.78
45:WL:282:ARG:NH1	45:WL:292:GLN:OE1	2.17	0.78
31:2H:177:ASN:ND2	44:AA:357:TYR:OH	2.17	0.78
22:2L:525:LEU:HD22	45:BN:320:ARG:H	1.48	0.78
26:3R:97:ARG:CB	44:AK:42:ILE:HD11	2.11	0.78
26:3R:152:LEU:HA	45:AN:78:ALA:O	1.84	0.78
38:5G:173:LYS:HZ1	45:KL:262:ARG:HA	1.48	0.78
38:5H:126:LEU:O	44:OM:373:ARG:NH2	2.16	0.78
11:6Q:83:LEU:O	11:6Q:85:LYS:NZ	2.13	0.78
44:AE:55:GLU:HG3	44:AE:57:GLY:H	1.48	0.78
44:AE:237:SER:HA	44:AE:320:ARG:HH11	1.49	0.78
44:AM:20:CYS:HA	44:AM:232:ALA:HB1	1.64	0.78
44:CE:288:VAL:HA	44:CE:291:ILE:HG12	1.63	0.78
45:CF:172:SER:OG	45:CF:205:GLU:OE1	2.01	0.78
45:CN:173:PRO:HD3	45:CN:380:ARG:HD3	1.64	0.78
45:DB:284:LEU:HD21	45:DB:361:LEU:HD11	1.64	0.78
44:DC:284:GLU:HG3	44:DC:286:LEU:HD22	1.64	0.78
45:DL:178:THR:HB	45:DL:181:GLU:HG3	1.65	0.78
44:EA:161:TYR:HB3	44:EA:164:LYS:CG	2.12	0.78
44:EA:240:ALA:HB2	44:EA:320:ARG:NH2	1.98	0.78
45:ED:49:VAL:HG11	45:ED:241:ARG:HD2	1.66	0.78
44:EI:88:HIS:CE1	44:EI:90:GLU:HG2	2.18	0.78
45:EN:380:ARG:O	45:EN:384:GLN:N	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:161:TYR:HB3	44:FA:164:LYS:HE2	1.64	0.78
44:FC:36:MET:SD	44:FC:39:ASP:N	2.53	0.78
44:FC:256:GLN:HG2	45:FF:397:TRP:CZ2	2.18	0.78
44:FC:363:VAL:CG1	44:FC:366:GLY:HA3	2.13	0.78
45:FD:135:ILE:HG13	45:FD:152:ILE:HD11	1.65	0.78
44:FE:215:ARG:NH2	44:FE:300:ASN:OD1	2.15	0.78
45:FF:10:GLY:O	45:FF:14:ASN:ND2	2.16	0.78
45:FF:193:VAL:HA	45:FF:264:HIS:CE1	2.17	0.78
45:FF:295:ASP:OD2	45:FF:297:LYS:NZ	2.14	0.78
45:FN:42:LEU:HA	45:FN:45:GLU:HG3	1.65	0.78
45:FN:322:SER:O	45:FN:323:THR:OG1	2.01	0.78
44:GA:222:PRO:HB2	44:GA:226:ASN:HD21	1.47	0.78
45:GB:244:GLY:CA	45:GB:354:CYS:HA	2.13	0.78
45:GH:200:MET:HB3	45:GH:266:PHE:HB2	1.63	0.78
45:HF:6:HIS:NE2	45:HF:8:GLN:OE1	2.15	0.78
44:HI:315:CYS:N	44:HI:350:GLY:O	2.15	0.78
44:HK:315:CYS:O	44:HK:351:PHE:HA	1.84	0.78
45:IB:8:GLN:HG3	45:IB:14:ASN:OD1	1.82	0.78
45:IB:272:PRO:HG3	45:IB:289:LEU:HD23	1.65	0.78
44:IC:69:ASP:OD1	44:IC:71:GLU:N	2.14	0.78
44:IC:188:ILE:HG23	44:IC:425:LEU:HD11	1.66	0.78
45:ID:210:ILE:O	45:ID:214:THR:OG1	2.00	0.78
45:IJ:105:HIS:HD2	45:IJ:150:LEU:HD12	1.49	0.78
45:IN:296:ALA:HB2	45:IN:306:ARG:NH2	1.96	0.78
45:JB:68:LEU:HD12	45:JB:97:ALA:HB2	1.63	0.78
44:JE:326:LYS:HD3	45:JH:220:PRO:HG2	1.66	0.78
45:KH:263:LEU:HG	45:KH:422:TYR:CE1	2.18	0.78
44:KI:177:VAL:CG2	45:KJ:331:LEU:HD22	2.13	0.78
44:LM:407:TRP:CZ3	45:LN:255:VAL:HA	2.18	0.78
45:MB:103:LYS:HA	45:MB:107:THR:HG22	1.65	0.78
44:MG:271:SER:CA	44:MG:302:MET:HE1	2.14	0.78
44:MG:311:LYS:N	44:MG:382:THR:OG1	2.16	0.78
44:NC:220:GLU:O	45:ND:324:LYS:NZ	2.15	0.78
44:NG:91:GLN:OE1	44:NG:91:GLN:N	2.16	0.78
44:NG:221:ARG:NH1	45:NH:325:GLU:OE2	2.16	0.78
44:PI:195:LEU:HD21	44:PI:264:ARG:HH12	1.49	0.78
45:PJ:262:ARG:NH1	45:PJ:421:GLU:OE1	2.17	0.78
45:PN:86:ARG:HH22	45:QL:278:SER:HA	1.48	0.78
45:QB:246:LEU:HD21	46:QC:501:GTP:H8	1.46	0.78
45:QJ:416:ASN:O	45:QJ:420:SER:N	2.17	0.78
44:QM:202:VAL:HG22	44:QM:268:MET:SD	2.22	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:51:TYR:HA	45:RB:60:VAL:O	1.84	0.78
45:RH:132:GLY:HA3	45:RH:163:ILE:HG22	1.63	0.78
45:SH:314:SER:N	45:SH:368:VAL:O	2.16	0.78
45:SJ:178:THR:N	45:SJ:181:GLU:OE2	2.15	0.78
44:SK:176:GLN:NE2	44:SK:207:GLU:OE2	2.16	0.78
44:SM:264:ARG:NE	44:SM:431:ASP:OD2	2.17	0.78
45:SN:316:LEU:HG	45:SN:352:SER:HB2	1.64	0.78
44:TA:175:PRO:HG3	44:TA:304:LYS:HD2	1.64	0.78
45:TD:7:ILE:HB	45:TD:135:ILE:HG13	1.65	0.78
44:TE:248:LEU:HD23	44:TE:354:GLY:HA2	1.64	0.78
45:TJ:114:ASP:O	45:TJ:118:ASP:N	2.16	0.78
45:TL:2:ARG:N	45:TL:129:CYS:SG	2.52	0.78
44:TM:106:GLY:HA3	44:TM:148:GLY:HA3	1.63	0.78
44:UM:91:GLN:HG2	44:UM:121:ARG:HD2	1.64	0.78
44:UM:270:SER:CA	44:UM:378:ILE:HA	2.12	0.78
45:VF:237:THR:O	45:VF:241:ARG:NE	2.15	0.78
45:VJ:5:VAL:CA	45:VJ:62:ARG:HH12	1.94	0.78
44:WG:398:MET:CE	45:WH:345:ILE:HA	2.13	0.78
45:WJ:256:ASN:HD22	45:WJ:350:LYS:HD2	1.47	0.78
44:WK:187:SER:O	44:WK:190:SER:OG	2.01	0.78
44:WM:398:MET:HE2	45:WN:346:PRO:HD2	1.66	0.78
31:2H:191:LEU:CD2	45:AD:360:GLY:HA2	2.14	0.78
36:5S:128:LEU:HD11	36:5S:168:LEU:HG	1.66	0.78
35:6R:253:ARG:HG3	44:CM:42:ILE:HG23	1.66	0.78
35:7R:387:PRO:O	45:EB:276:ARG:NH1	2.16	0.78
45:AF:141:GLY:O	45:AF:145:SER:N	2.16	0.78
44:AG:260:VAL:HG23	45:AJ:397:TRP:HH2	1.47	0.78
45:AJ:372:THR:HA	45:AJ:422:TYR:HE2	1.48	0.78
44:AK:301:MET:HE3	44:AK:301:MET:HA	1.66	0.78
44:BA:407:TRP:CH2	45:BB:254:ALA:O	2.37	0.78
45:BD:61:PRO:CD	45:BD:84:LEU:HB3	2.13	0.78
44:BE:210:TYR:CE1	44:BE:227:LEU:HD11	2.19	0.78
45:BF:178:THR:N	45:BF:181:GLU:OE2	2.16	0.78
44:BG:55:GLU:HG3	44:BG:57:GLY:H	1.46	0.78
44:CC:126:ALA:HB1	44:CC:132:LEU:HD11	1.65	0.78
45:CD:256:ASN:HD22	45:CD:350:LYS:HD2	1.48	0.78
45:CJ:232:ALA:O	45:CJ:236:VAL:HG23	1.83	0.78
44:DG:209:ILE:CG2	44:DG:227:LEU:HD22	2.13	0.78
44:DK:311:LYS:N	44:DK:382:THR:OG1	2.14	0.78
45:EB:317:PHE:HB2	45:EB:353:ILE:HG13	1.64	0.78
44:EC:175:PRO:HG2	44:EC:304:LYS:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:68:LEU:HD13	45:EF:112:LEU:HD13	1.65	0.78
44:EI:115:VAL:HG21	44:EI:152:LEU:HD23	1.64	0.78
45:EJ:49:VAL:HG21	45:EJ:241:ARG:HG2	1.66	0.78
45:FD:60:VAL:HG23	45:FD:86:ARG:NH1	1.94	0.78
45:FD:61:PRO:CG	45:FD:84:LEU:HB3	2.13	0.78
45:FH:64:ILE:HG13	45:FH:90:PHE:CE1	2.18	0.78
45:GB:282:ARG:NH2	45:GB:292:GLN:OE1	2.16	0.78
45:GD:73:MET:O	45:GD:76:VAL:HG12	1.84	0.78
45:GN:2:ARG:NH2	45:GN:240:LEU:O	2.16	0.78
44:HA:75:ILE:HG23	44:HA:92:LEU:HD23	1.64	0.78
44:HC:88:HIS:CE1	44:HC:90:GLU:HG2	2.19	0.78
45:IB:286:VAL:HA	45:IB:289:LEU:HB2	1.65	0.78
45:IB:287:PRO:HA	45:IB:290:THR:HG22	1.65	0.78
45:IL:210:ILE:HG23	45:IL:214:THR:HG21	1.62	0.78
45:IN:289:LEU:HD13	45:IN:365:VAL:HG23	1.65	0.78
45:JD:177:ASP:N	45:JD:181:GLU:OE2	2.17	0.78
45:JN:20:PHE:HA	45:JN:230:SER:HB3	1.65	0.78
45:KH:114:ASP:OD1	45:KH:115:SER:N	2.16	0.78
44:KM:20:CYS:HA	44:KM:232:ALA:HB1	1.65	0.78
44:ME:269:LEU:HD13	44:ME:433:GLU:HB2	1.63	0.78
45:MF:42:LEU:H	45:MF:42:LEU:HD23	1.47	0.78
45:MH:21:TRP:O	45:MH:25:SER:OG	2.01	0.78
45:NB:421:GLU:O	45:NB:424:GLN:NE2	2.17	0.78
45:NF:236:VAL:HG13	45:NF:237:THR:HG23	1.66	0.78
44:NM:206:ASN:OD1	44:NM:207:GLU:N	2.17	0.78
44:OA:189:LEU:HD11	44:OA:418:PHE:CE1	2.18	0.78
45:OB:28:HIS:HA	45:OB:43:GLN:HG2	1.65	0.78
45:OD:108:GLU:OE1	45:OD:108:GLU:N	2.15	0.78
44:OE:292:THR:HG21	44:OE:331:SER:HB3	1.65	0.78
45:OJ:200:MET:SD	45:OJ:266:PHE:HB2	2.23	0.78
44:PA:350:GLY:HA2	45:PD:179:VAL:HG12	1.63	0.78
44:PC:102:ASN:HD21	44:PC:411:GLU:HG3	1.49	0.78
44:PC:311:LYS:CE	44:PC:342:GLN:HG3	2.14	0.78
45:PF:139:LEU:HD13	45:PF:168:SER:HB3	1.66	0.78
44:PI:292:THR:HG21	44:PI:331:SER:HB3	1.66	0.78
44:QA:69:ASP:O	44:QA:94:SER:HA	1.82	0.78
44:QI:398:MET:HG3	44:QI:403:ALA:HB3	1.66	0.78
45:QJ:102:ALA:HB1	45:QJ:401:GLU:HB2	1.66	0.78
45:QL:257:LEU:CA	45:QL:312:THR:HG21	2.13	0.78
44:RE:274:PRO:CD	44:RE:374:ALA:HA	2.13	0.78
44:RE:348:PRO:HG2	45:RF:384:GLN:HE21	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:8:GLN:HE21	45:RH:65:LEU:HG	1.49	0.78
44:RI:51:THR:CG2	44:RI:243:ARG:HB3	2.11	0.78
44:RI:64:ARG:NH1	44:RI:129:CYS:SG	2.56	0.78
45:RJ:325:GLU:HG2	45:RJ:329:GLN:CG	2.14	0.78
45:SB:97:ALA:HA	45:SB:103:LYS:HD2	1.63	0.78
45:SD:313:ALA:HA	45:SD:369:GLY:HA2	1.65	0.78
44:SG:390:ARG:HG3	44:SG:391:LEU:HD12	1.66	0.78
44:SI:434:GLU:O	44:SI:437:ILE:HG12	1.84	0.78
44:SK:191:THR:HA	44:SK:194:LEU:HG	1.65	0.78
45:TB:372:THR:HA	45:TB:422:TYR:HE2	1.49	0.78
45:TD:32:PRO:HA	45:TD:84:LEU:HD11	1.63	0.78
45:TD:132:GLY:HA3	45:TD:163:ILE:HG12	1.66	0.78
44:TE:88:HIS:CE1	44:TE:90:GLU:HG2	2.18	0.78
44:TI:14:ILE:HD13	44:TI:75:ILE:HD11	1.64	0.78
45:TJ:245:GLN:O	45:TJ:246:LEU:HD12	1.83	0.78
45:TL:132:GLY:HA3	45:TL:163:ILE:HG13	1.64	0.78
44:UA:291:ILE:HD12	44:UA:375:VAL:HG12	1.64	0.78
44:UC:15:GLN:HA	44:UC:18:ASN:ND2	1.98	0.78
45:UD:73:MET:O	45:UD:76:VAL:HG12	1.82	0.78
45:UF:293:MET:HE1	45:UF:365:VAL:HG21	1.66	0.78
44:UG:2:ARG:HH22	45:UH:71:GLY:HA3	1.48	0.78
45:UL:83:GLN:O	45:UL:86:ARG:NH2	2.15	0.78
45:VL:3:GLU:OE2	45:VL:128:ASP:N	2.15	0.78
45:VL:412:GLU:OE2	45:VL:416:ASN:ND2	2.17	0.78
44:WA:22:GLU:O	44:WA:26:LEU:N	2.17	0.78
44:WI:210:TYR:HE1	44:WI:227:LEU:HD11	1.48	0.78
44:WI:416:GLY:O	44:WI:419:SER:OG	2.02	0.78
9:0H:356:LYS:HD2	44:GM:58:ALA:HB1	1.62	0.78
40:6F:39:LYS:HG3	40:6F:58:GLU:OE2	1.83	0.78
35:6R:118:LEU:CD1	35:6R:129:VAL:HG22	2.01	0.78
45:BD:376:GLU:OE2	45:BD:380:ARG:NH2	2.15	0.78
44:BI:11:GLN:NE2	45:BJ:245:GLN:O	2.17	0.78
45:BL:169:VAL:HG12	45:BL:202:ILE:HB	1.65	0.78
45:BL:174:LYS:HD2	45:BL:175:VAL:HG13	1.66	0.78
45:CB:2:ARG:CZ	45:CB:240:LEU:HG	2.14	0.78
45:CB:25:SER:CB	45:CB:30:ILE:HB	2.14	0.78
45:CB:144:GLY:CA	48:CB:501:GDP:O2B	2.32	0.78
45:CH:247:ASN:O	45:CH:252:LYS:NZ	2.16	0.78
45:CN:47:ILE:HG22	45:CN:51:TYR:HB2	1.65	0.78
45:CN:203:ASP:HB2	45:CN:301:CYS:HA	1.65	0.78
45:CN:239:CYS:SG	45:CN:248:SER:HB3	2.24	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:255:VAL:HA	44:DC:407:TRP:HZ3	1.48	0.78
44:DE:68:LEU:HD13	44:DE:93:ILE:HB	1.65	0.78
45:DH:1:MET:O	45:DH:2:ARG:HG2	1.84	0.78
45:DJ:269:GLY:HA2	45:DJ:300:MET:SD	2.24	0.78
44:DM:317:MET:O	44:DM:354:GLY:N	2.17	0.78
45:EL:16:ILE:HG21	45:EL:233:MET:HE3	1.63	0.78
44:EM:324:VAL:HG11	45:EN:220:PRO:O	1.82	0.78
45:FB:139:LEU:HA	45:FB:145:SER:CB	2.12	0.78
45:FB:267:MET:HE1	45:FB:373:ALA:HB3	1.64	0.78
45:FF:19:LYS:HG3	45:FF:226:ASN:HB3	1.64	0.78
44:FI:1:MET:HB3	44:FI:2:ARG:HH11	1.48	0.78
45:FN:272:PRO:HD3	45:FN:364:ALA:HA	1.64	0.78
45:GB:139:LEU:HD21	45:GB:189:VAL:HG23	1.65	0.78
44:HA:274:PRO:HD2	44:HA:374:ALA:HA	1.64	0.78
44:HG:200:VAL:HG13	44:HG:268:MET:CE	2.14	0.78
45:HJ:372:THR:HA	45:HJ:422:TYR:CE2	2.18	0.78
45:IB:117:LEU:HG	45:IB:121:ARG:HG3	1.65	0.78
44:IM:181:VAL:HG22	45:IN:256:ASN:OD1	1.84	0.78
44:JC:231:ILE:O	44:JC:234:VAL:HG12	1.84	0.78
44:KE:55:GLU:HG3	44:KE:57:GLY:H	1.49	0.78
44:KE:292:THR:HG21	44:KE:331:SER:OG	1.84	0.78
45:LD:156:ARG:NH1	45:LD:197:ASP:OD1	2.16	0.78
45:LF:15:GLN:HB3	45:LF:226:ASN:ND2	1.99	0.78
45:LH:63:ALA:O	45:LH:89:ASN:ND2	2.16	0.78
45:LL:124:ALA:HB1	45:LL:130:LEU:HD22	1.64	0.78
44:LM:133:GLN:HB3	44:LM:252:ILE:HD11	1.64	0.78
45:LN:206:ALA:O	45:LN:210:ILE:N	2.13	0.78
45:LN:370:ASN:OD1	45:LN:422:TYR:OH	2.02	0.78
45:MD:286:VAL:CG2	45:MD:287:PRO:HD3	2.13	0.78
45:MF:10:GLY:O	45:MF:14:ASN:N	2.17	0.78
45:MJ:110:ALA:O	45:MJ:113:ILE:HG22	1.82	0.78
45:ML:12:CYS:HB3	45:ML:138:SER:HB2	1.63	0.78
45:NB:73:MET:CE	45:NB:92:PHE:HB3	2.14	0.78
44:NC:64:ARG:NH1	44:NC:129:CYS:SG	2.57	0.78
44:NG:15:GLN:HA	44:NG:18:ASN:ND2	1.99	0.78
44:NM:283:HIS:CE1	44:NM:372:MET:HG2	2.19	0.78
45:OF:99:ASN:HA	45:OF:142:GLY:HA3	1.66	0.78
45:OH:275:SER:OG	45:OH:278:SER:N	2.12	0.78
45:OJ:328:GLU:O	45:OJ:332:ASN:ND2	2.17	0.78
45:ON:362:LYS:CD	45:ON:363:MET:HE2	2.13	0.78
44:PA:9:VAL:HG21	44:PA:149:LEU:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PA:54:SER:O	44:PA:62:VAL:N	2.14	0.78
45:PF:20:PHE:CD2	45:PF:25:SER:HB3	2.19	0.78
44:PK:64:ARG:NH1	44:PK:129:CYS:SG	2.56	0.78
44:PK:69:ASP:OD1	44:PK:70:LEU:N	2.16	0.78
44:PK:288:VAL:HG11	44:PK:327:ASP:CB	2.09	0.78
45:PL:4:ILE:HG22	45:PL:131:GLN:HB3	1.66	0.78
44:PM:315:CYS:O	44:PM:351:PHE:HA	1.84	0.78
44:QE:141:VAL:HG12	44:QE:171:ILE:O	1.84	0.78
44:QE:144:GLY:O	44:QE:148:GLY:N	2.16	0.78
44:QK:233:GLN:NE2	44:QK:361:THR:O	2.15	0.78
44:QK:258:ASN:HD22	44:QK:352:LYS:HD2	1.46	0.78
44:QM:166:LYS:CE	44:QM:198:THR:HA	2.14	0.78
44:RA:280:LYS:HE3	44:RA:283:HIS:CE1	2.19	0.78
45:RL:3:GLU:HG3	45:RL:62:ARG:HH12	1.48	0.78
44:SC:269:LEU:HD12	44:SC:301:MET:HE2	1.66	0.78
45:SD:318:ARG:HH11	45:SD:358:PRO:HG3	1.49	0.78
45:SF:318:ARG:HH11	45:SF:358:PRO:HG3	1.47	0.78
44:SG:28:HIS:CE1	44:SG:49:PHE:HA	2.19	0.78
45:SJ:134:GLN:HA	45:SJ:165:GLU:HB2	1.66	0.78
44:TC:171:ILE:HG12	44:TC:204:LEU:HB3	1.66	0.78
45:TF:207:LEU:HD23	45:TF:300:MET:CE	2.13	0.78
45:TH:202:ILE:HG12	45:TH:300:MET:HE1	1.65	0.78
45:TL:113:ILE:HD13	45:TL:150:LEU:HD22	1.64	0.78
44:TM:11:GLN:HB2	46:TM:501:GTP:PB	2.24	0.78
45:UH:10:GLY:O	45:UH:14:ASN:N	2.16	0.78
45:UJ:45:GLU:OE1	45:UJ:46:ARG:HG2	1.83	0.78
45:VB:173:PRO:HD3	45:VB:380:ARG:NH1	1.98	0.78
44:VC:202:VAL:HA	44:VC:268:MET:O	1.84	0.78
44:VG:76:ASP:OD2	45:VH:46:ARG:NH2	2.16	0.78
44:VI:407:TRP:HZ3	45:VJ:255:VAL:HA	1.49	0.78
44:VM:97:GLU:HG2	44:VM:105:ARG:HH22	1.47	0.78
45:VN:256:ASN:ND2	45:VN:350:LYS:HD2	1.98	0.78
45:WB:244:GLY:HA2	45:WB:355:ASP:OD1	1.82	0.78
44:WE:311:LYS:O	44:WE:381:SER:HB2	1.84	0.78
44:WK:20:CYS:HA	44:WK:232:ALA:HB1	1.66	0.78
44:WK:432:TYR:HA	44:WK:435:VAL:HG12	1.65	0.78
45:WN:242:PHE:CB	45:WN:356:ILE:HD13	2.13	0.78
1:6H:379:ASP:OD2	44:FK:22:GLU:CD	2.22	0.78
8:0G:27:PHE:HB3	45:JL:277:GLY:HA2	1.65	0.78
17:2B:3:TRP:HB2	45:LL:320:ARG:HH22	1.48	0.78
22:2L:406:ARG:HD2	45:CN:361:LEU:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4F:169:PHE:HA	44:IM:82:THR:HA	1.62	0.78
37:5D:118:PRO:HA	44:NM:325:PRO:HD3	1.66	0.78
38:5F:211:ASN:OD1	38:5F:216:LYS:NZ	2.16	0.78
38:5H:111:ASN:HB3	45:NN:44:LEU:HD13	1.66	0.78
11:6Q:102:ARG:HG3	11:6Q:118:ILE:HG22	1.66	0.78
35:7R:29:GLN:O	35:7R:41:LYS:NZ	2.14	0.78
42:8L:53:UNK:O	42:8L:57:UNK:N	2.17	0.78
45:AD:7:ILE:HD13	45:AD:64:ILE:HB	1.65	0.78
45:AD:229:VAL:HG12	45:AD:233:MET:HE2	1.62	0.78
44:AI:428:LEU:HD21	44:AI:432:TYR:HE2	1.48	0.78
44:BM:20:CYS:O	44:BM:24:PHE:N	2.17	0.78
44:CA:292:THR:HG21	44:CA:331:SER:HB3	1.65	0.78
45:CH:231:ALA:HB1	45:CH:270:PHE:CD2	2.18	0.78
45:DB:153:SER:O	45:DB:156:ARG:HD3	1.82	0.78
44:DG:60:LYS:NZ	44:DG:86:LEU:HA	1.97	0.78
44:DM:288:VAL:O	44:DM:291:ILE:HG12	1.83	0.78
44:EI:102:ASN:OD1	44:EI:105:ARG:N	2.17	0.78
45:EJ:99:ASN:ND2	45:EJ:178:THR:HG21	1.99	0.78
45:EL:207:LEU:HB3	45:EL:225:LEU:HD22	1.66	0.78
45:EN:253:LEU:O	45:EN:257:LEU:N	2.16	0.78
44:FA:131:GLY:O	44:FA:133:GLN:NE2	2.17	0.78
45:FL:143:THR:HA	45:FL:147:MET:CE	2.14	0.78
44:GA:265:ILE:HG12	44:GA:432:TYR:CE1	2.19	0.78
45:GD:100:ASN:ND2	45:GD:401:GLU:OE1	2.16	0.78
45:GD:287:PRO:HD3	45:GD:325:GLU:OE2	1.83	0.78
45:GF:156:ARG:NH2	45:GF:195:ASN:HB2	1.98	0.78
45:GH:318:ARG:HH11	45:GH:358:PRO:HG3	1.47	0.78
44:GI:104:ALA:HB2	44:GI:413:MET:CE	2.14	0.78
44:GI:304:LYS:HD3	44:GI:390:ARG:NH2	1.97	0.78
44:HA:310:GLY:O	44:HA:311:LYS:HD3	1.83	0.78
45:HD:110:ALA:O	45:HD:113:ILE:HG22	1.84	0.78
44:HE:203:MET:HG3	44:HE:384:ILE:HD11	1.65	0.78
45:HJ:322:SER:OG	45:HJ:325:GLU:HG3	1.84	0.78
45:IJ:207:LEU:HD23	45:IJ:300:MET:HE1	1.65	0.78
44:JG:237:SER:HG	44:JG:376:CYS:HG	1.27	0.78
44:JM:27:GLU:HB3	44:JM:361:THR:HG21	1.66	0.78
44:KI:288:VAL:HG11	44:KI:327:ASP:HB3	1.65	0.78
44:KK:101:ASN:ND2	45:KL:252:LYS:HG3	1.97	0.78
44:LC:268:MET:HB3	44:LC:380:ASN:HB2	1.66	0.78
46:LI:501:GTP:O2G	45:LJ:252:LYS:NZ	2.13	0.78
45:LL:64:ILE:O	45:LL:64:ILE:HG13	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:80:PRO:O	45:NJ:80:PRO:HD2	1.83	0.78
45:NL:31:ASP:OD1	45:NL:35:THR:N	2.17	0.78
45:OB:293:MET:HA	45:OB:298:ASN:HD22	1.48	0.78
44:OI:185:TYR:HE2	44:OI:404:PHE:HB2	1.47	0.78
44:PG:188:ILE:HD12	44:PG:425:LEU:CD1	2.14	0.78
44:PG:222:PRO:O	45:PH:322:SER:OG	2.01	0.78
44:PI:89:PRO:CG	44:QI:280:LYS:HG3	2.12	0.78
45:QD:31:ASP:HB3	45:QD:32:PRO:HD3	1.66	0.78
45:QF:97:ALA:HB2	45:QF:143:THR:HB	1.63	0.78
45:RF:323:THR:HA	45:RF:326:VAL:HG12	1.66	0.78
45:RH:213:ARG:NH2	45:RH:297:LYS:HB2	1.99	0.78
44:RI:268:MET:HB2	44:RI:380:ASN:HA	1.66	0.78
45:SH:251:ARG:HD3	44:SI:105:ARG:HH22	1.49	0.78
44:SK:66:VAL:CG1	44:SK:122:ILE:HD11	2.14	0.78
45:SN:271:ALA:HB1	45:SN:272:PRO:HA	1.65	0.78
45:TB:238:CYS:HB2	45:TB:318:ARG:HE	1.48	0.78
45:TF:330:MET:HE1	45:TF:349:ILE:CD1	2.14	0.78
45:TH:117:LEU:HA	45:TH:120:VAL:HG22	1.65	0.78
45:TH:222:TYR:HD1	45:TH:225:LEU:HD12	1.48	0.78
45:TL:259:PRO:HA	44:TM:404:PHE:CZ	2.19	0.78
44:UC:135:PHE:N	44:UC:165:SER:O	2.16	0.78
44:UC:271:SER:HB2	44:UC:377:MET:HG3	1.65	0.78
45:UF:167:PHE:CE2	45:UF:233:MET:HG2	2.18	0.78
45:UF:346:PRO:HD2	44:UG:398:MET:CE	2.12	0.78
45:UH:12:CYS:HB2	48:UH:501:GDP:O4'	1.84	0.78
44:UI:13:GLY:O	44:UI:17:GLY:N	2.13	0.78
44:UK:271:SER:OG	44:UK:301:MET:HA	1.84	0.78
45:VB:136:THR:HG22	45:VB:167:PHE:HB2	1.64	0.78
44:VG:11:GLN:HB2	46:VG:501:GTP:O2B	1.83	0.78
44:VI:69:ASP:OD1	44:VI:70:LEU:N	2.17	0.78
45:VL:256:ASN:HB3	45:VL:350:LYS:HD2	1.66	0.78
44:WA:315:CYS:HA	44:WA:379:SER:HB3	1.66	0.78
44:WC:56:THR:HG23	44:WC:58:ALA:H	1.49	0.78
44:WI:269:LEU:HD11	44:WI:384:ILE:HD13	1.65	0.78
45:WN:163:ILE:HD13	45:WN:251:ARG:HG3	1.65	0.78
3:OB:242:PRO:HB3	45:JL:361:LEU:CD1	2.14	0.78
5:OD:81:ARG:HH11	45:EB:357:PRO:HG2	1.48	0.78
8:1G:116:GLN:HE21	44:JA:219:ILE:HG21	1.47	0.78
16:2X:26:GLU:HG2	45:ML:276:ARG:HH22	1.48	0.78
33:3D:6:LYS:HB2	45:KD:37:HIS:CE1	2.18	0.78
37:5D:41:SER:HA	44:KK:314:ALA:HB2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:107:TYR:HB3	44:NM:278:ALA:H	1.48	0.78
38:5G:22:LYS:NZ	38:5G:29:LYS:HE2	1.99	0.78
35:7R:97:CYS:HB3	35:7R:180:ILE:CD1	2.14	0.78
45:AD:100:ASN:ND2	45:AD:401:GLU:OE1	2.17	0.78
44:AE:224:TYR:HE2	45:AF:246:LEU:HD11	1.48	0.78
45:BH:200:MET:HE2	45:BH:268:ILE:HD13	1.64	0.78
44:BK:71:GLU:OE1	44:BK:73:THR:OG1	2.02	0.78
44:BK:222:PRO:HD2	45:BL:324:LYS:HD3	1.66	0.78
45:BL:117:LEU:HD22	45:BL:154:LYS:HD3	1.65	0.78
45:BL:173:PRO:HG2	45:BL:380:ARG:HH11	1.49	0.78
45:BL:345:ILE:HG23	45:BL:348:ASN:HB3	1.64	0.78
45:CB:5:VAL:HA	45:CB:62:ARG:HD2	1.63	0.78
45:CF:345:ILE:HG13	44:CG:398:MET:HE3	1.64	0.78
45:CH:213:ARG:NH2	45:CH:298:ASN:HA	1.98	0.78
45:CH:258:ILE:HG13	45:CH:266:PHE:HZ	1.49	0.78
44:CI:88:HIS:HB3	44:CI:91:GLN:CD	2.05	0.78
45:DB:153:SER:HA	45:DB:156:ARG:NE	1.99	0.78
45:DB:249:ASP:OD1	45:DB:252:LYS:N	2.15	0.78
44:DC:11:GLN:HG3	44:DC:74:VAL:HG11	1.66	0.78
45:DL:44:LEU:HD22	45:DL:47:ILE:HG21	1.65	0.78
44:EA:7:ILE:HA	44:EA:66:VAL:CG1	2.13	0.78
45:EB:73:MET:CE	45:EB:92:PHE:HB3	2.14	0.78
45:EL:310:TYR:CD1	45:EL:371:SER:HB2	2.19	0.78
44:EM:205:ASP:OD1	44:EM:303:ALA:HA	1.83	0.78
45:EN:93:GLY:O	45:EN:94:GLN:NE2	2.16	0.78
44:FA:276:ILE:HD13	44:FA:286:LEU:HD11	1.65	0.78
44:FA:383:ALA:O	44:FA:386:GLU:HG2	1.82	0.78
44:FE:180:ALA:HB1	45:FF:256:ASN:HD21	1.48	0.78
44:FG:215:ARG:NH2	44:FG:300:ASN:OD1	2.17	0.78
45:FH:326:VAL:O	45:FH:330:MET:N	2.15	0.78
44:FI:226:ASN:ND2	44:FI:367:ASP:OD2	2.17	0.78
45:FJ:156:ARG:NH1	45:FJ:160:PRO:HA	1.99	0.78
45:FN:113:ILE:O	45:FN:116:VAL:HG12	1.84	0.78
45:FN:130:LEU:HD21	45:FN:133:PHE:CZ	2.19	0.78
44:GE:89:PRO:CD	44:HE:280:LYS:HG2	2.14	0.78
44:GG:384:ILE:O	44:GG:387:VAL:HG22	1.84	0.78
45:GN:232:ALA:O	45:GN:236:VAL:HG23	1.84	0.78
44:HA:70:LEU:HA	44:HA:95:GLY:HA3	1.66	0.78
44:HE:69:ASP:OD1	44:HE:70:LEU:N	2.17	0.78
45:IB:27:GLU:OE2	45:IB:241:ARG:NH1	2.17	0.78
45:IF:200:MET:SD	45:IF:266:PHE:HB2	2.24	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:49:VAL:HG11	45:IH:241:ARG:HG2	1.63	0.78
44:JE:265:ILE:HG23	44:JE:432:TYR:CZ	2.19	0.78
44:JK:195:LEU:HD11	44:JK:428:LEU:HD22	1.66	0.78
44:KE:60:LYS:NZ	44:KE:85:GLN:O	2.16	0.78
45:KH:143:THR:HG22	48:KH:501:GDP:PB	2.23	0.78
44:KI:204:LEU:HD13	44:KI:231:ILE:HD12	1.66	0.78
45:KN:385:PHE:O	45:KN:389:PHE:N	2.16	0.78
45:LF:334:GLN:HE21	45:LF:349:ILE:HD12	1.48	0.78
44:LI:348:PRO:HB2	45:LL:384:GLN:HE21	1.49	0.78
44:ME:254:GLU:OE2	45:MH:98:GLY:HA2	1.82	0.78
45:ML:398:TYR:HB3	45:ML:403:MET:HG3	1.66	0.78
44:MM:294:SER:O	44:MM:300:ASN:ND2	2.17	0.78
45:MN:275:SER:OG	45:MN:278:SER:N	2.15	0.78
44:NC:237:SER:OG	44:NC:320:ARG:NH1	2.16	0.78
44:NC:287:SER:N	44:NC:290:GLU:OE2	2.16	0.78
45:NF:7:ILE:CG2	45:NF:135:ILE:HG12	2.13	0.78
45:NF:295:ASP:OD2	45:NF:297:LYS:NZ	2.17	0.78
45:OD:318:ARG:N	45:OD:364:ALA:O	2.17	0.78
44:OE:6:SER:OG	44:OE:64:ARG:O	2.02	0.78
44:OG:249:ASN:ND2	45:OJ:11:GLN:OE1	2.15	0.78
45:OH:5:VAL:HG22	45:OH:132:GLY:O	1.84	0.78
45:PB:317:PHE:CE1	45:PB:365:VAL:HG22	2.19	0.78
44:PK:9:VAL:HG22	44:PK:146:GLY:HA2	1.66	0.78
44:QC:112:LYS:O	44:QC:115:VAL:HG12	1.84	0.78
45:QH:156:ARG:NH1	45:QH:197:ASP:OD1	2.17	0.78
45:QH:232:ALA:HB1	45:QH:268:ILE:HD12	1.65	0.78
45:QL:3:GLU:OE1	45:QL:3:GLU:N	2.17	0.78
45:RD:282:ARG:HA	45:RD:282:ARG:CZ	2.13	0.78
44:RK:6:SER:OG	44:RK:65:ALA:HA	1.84	0.78
44:RM:11:GLN:HA	44:RM:14:ILE:CD1	2.13	0.78
44:SI:254:GLU:HG2	45:SJ:98:GLY:CA	2.14	0.78
45:SL:253:LEU:HD21	45:SL:316:LEU:HD21	1.65	0.78
45:SL:316:LEU:O	45:SL:366:THR:N	2.16	0.78
45:SN:4:ILE:HG22	45:SN:132:GLY:H	1.47	0.78
45:SN:116:VAL:HA	45:SN:119:VAL:HG12	1.66	0.78
44:TC:296:PHE:CE2	44:TC:335:ILE:HG13	2.19	0.78
44:TE:151:SER:OG	44:TE:193:SER:OG	2.02	0.78
44:TE:262:TYR:OH	45:TF:391:ARG:O	2.01	0.78
44:TG:434:GLU:O	44:TG:437:ILE:HG12	1.84	0.78
45:TH:139:LEU:HD13	45:TH:168:SER:HB3	1.66	0.78
44:TI:203:MET:HB2	44:TI:269:LEU:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:289:LEU:HD13	45:TJ:365:VAL:HG13	1.64	0.78
44:TM:12:GLY:O	44:TM:16:VAL:N	2.17	0.78
44:UC:241:SER:O	44:UC:249:ASN:ND2	2.17	0.78
44:UG:157:LEU:HD23	44:UG:166:LYS:HD3	1.65	0.78
45:UH:318:ARG:NH1	45:UH:358:PRO:HG3	1.99	0.78
45:UH:406:MET:O	45:UH:410:GLU:HG3	1.83	0.78
45:UL:322:SER:O	44:UM:221:ARG:NH2	2.17	0.78
44:VC:180:ALA:HB1	45:VD:256:ASN:ND2	1.99	0.78
44:VI:145:THR:OG1	46:VI:501:GTP:O1B	2.00	0.78
45:VN:61:PRO:HD2	45:VN:84:LEU:O	1.84	0.78
44:WA:70:LEU:HA	44:WA:95:GLY:HA3	1.65	0.78
44:WA:151:SER:HG	44:WA:153:LEU:N	1.82	0.78
45:WL:226:ASN:O	45:WL:230:SER:N	2.17	0.78
44:WM:317:MET:HG2	44:WM:375:VAL:HG22	1.65	0.78
5:2D:20:LYS:HD2	45:CJ:53:GLU:OE2	1.82	0.78
6:2E:61:LYS:HE3	45:DJ:37:HIS:HB2	1.63	0.78
26:2R:299:LEU:HA	45:CH:78:ALA:O	1.84	0.78
26:2R:313:PRO:HG3	45:CH:361:LEU:HD11	1.66	0.78
37:5D:26:LYS:CE	45:KN:395:LEU:HA	2.13	0.78
35:6R:389:ASN:N	45:EN:276:ARG:HH12	1.81	0.78
35:6R:436:GLU:CG	45:FN:280:GLN:HG3	2.14	0.78
45:AF:40:SER:N	45:AF:43:GLN:OE1	2.16	0.78
45:AJ:68:LEU:HD23	45:AJ:97:ALA:HB2	1.65	0.78
45:BD:317:PHE:HA	45:BD:365:VAL:HG22	1.66	0.78
45:BF:139:LEU:HD13	45:BF:168:SER:HB2	1.66	0.78
44:BG:176:GLN:NE2	44:BG:207:GLU:OE2	2.16	0.78
45:BH:239:CYS:SG	45:BH:248:SER:N	2.55	0.78
44:CE:203:MET:HB2	44:CE:269:LEU:HD23	1.64	0.78
45:CH:249:ASP:OD1	45:CH:252:LYS:N	2.15	0.78
44:DC:137:VAL:HG12	44:DC:167:LEU:O	1.84	0.78
44:DE:262:TYR:OH	45:DF:391:ARG:O	2.02	0.78
44:DG:268:MET:HG2	44:DG:380:ASN:CB	2.13	0.78
44:DM:184:PRO:HA	44:DM:187:SER:HB2	1.66	0.78
44:EA:242:LEU:HD11	44:EA:252:ILE:HG13	1.64	0.78
44:EC:252:ILE:HA	44:EC:255:PHE:CZ	2.18	0.78
45:ED:222:TYR:O	45:ED:226:ASN:ND2	2.15	0.78
44:EE:60:LYS:HD3	44:FC:283:HIS:CD2	2.19	0.78
44:EE:263:PRO:HD3	45:EF:396:HIS:CG	2.19	0.78
44:EE:264:ARG:NH2	44:EE:428:LEU:HA	1.98	0.78
45:EJ:324:LYS:NZ	44:EK:220:GLU:O	2.16	0.78
44:EM:195:LEU:HA	44:EM:266:HIS:CE1	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FJ:7:ILE:HB	45:FJ:135:ILE:CD1	2.14	0.78
45:FN:137:HIS:ND1	45:FN:144:GLY:O	2.16	0.78
45:FN:293:MET:HG3	45:FN:367:PHE:HB2	1.66	0.78
45:GB:312:THR:HG22	45:GB:370:ASN:HB2	1.64	0.78
44:GC:271:SER:HB2	44:GC:377:MET:CG	2.14	0.78
44:GG:137:VAL:HG11	44:GG:154:LEU:HD21	1.64	0.78
45:GJ:286:VAL:CG2	45:GJ:287:PRO:HD3	2.14	0.78
44:GK:112:LYS:O	44:GK:115:VAL:HG12	1.84	0.78
44:GK:346:TRP:CD1	45:GN:391:ARG:HG3	2.18	0.78
44:GM:407:TRP:CZ3	45:GN:255:VAL:HA	2.18	0.78
44:JA:1:MET:HE1	45:JD:70:PRO:HG2	1.64	0.78
44:JG:245:ASP:OD1	44:JG:246:GLY:N	2.17	0.78
44:KA:240:ALA:HA	44:KA:243:ARG:HD3	1.66	0.78
44:KE:224:TYR:HE2	45:KF:246:LEU:HD11	1.49	0.78
44:KE:414:GLU:HB3	44:KE:417:GLU:HG2	1.64	0.78
45:LF:124:ALA:HB1	45:LF:130:LEU:HD22	1.65	0.78
45:MD:101:TRP:HB2	45:MD:184:ASN:OD1	1.82	0.78
45:MD:235:GLY:HA2	45:MD:318:ARG:HH21	1.49	0.78
45:MD:248:SER:HB2	45:MD:252:LYS:HD2	1.65	0.78
45:MF:395:LEU:O	45:MF:399:THR:HG23	1.82	0.78
44:MM:66:VAL:HG21	44:MM:122:ILE:HD11	1.65	0.78
44:MM:112:LYS:O	44:MM:115:VAL:HG22	1.83	0.78
44:MM:295:ALA:HB1	44:MM:377:MET:HE2	1.65	0.78
44:NA:258:ASN:HA	45:ND:179:VAL:HG21	1.65	0.78
44:NA:404:PHE:CE2	45:NB:259:PRO:HA	2.18	0.78
44:NK:221:ARG:NH1	45:NL:325:GLU:OE2	2.16	0.78
44:NM:99:ALA:O	44:NM:102:ASN:ND2	2.17	0.78
45:OB:122:LYS:HE2	45:PB:291:GLN:HB2	1.66	0.78
45:OF:6:HIS:HB3	45:OF:63:ALA:HB2	1.65	0.78
44:OM:112:LYS:HA	44:OM:115:VAL:HG12	1.64	0.78
45:ON:323:THR:HG22	45:ON:353:ILE:HD13	1.66	0.78
45:PF:317:PHE:CZ	45:PF:326:VAL:HG13	2.19	0.78
45:PH:47:ILE:HG12	45:PH:51:TYR:HB2	1.64	0.78
45:PH:323:THR:HA	45:PH:326:VAL:HB	1.66	0.78
44:PI:140:SER:OG	46:PI:501:GTP:O2B	2.01	0.78
45:PL:67:ASP:OD1	45:PL:68:LEU:N	2.16	0.78
44:PM:88:HIS:O	44:PM:91:GLN:HG2	1.84	0.78
45:QD:327:ASP:HB3	44:QE:177:VAL:HG13	1.65	0.78
45:QF:68:LEU:HD13	45:QF:143:THR:HG21	1.65	0.78
44:QM:76:ASP:OD1	44:QM:79:ARG:NH2	2.17	0.78
44:RI:97:GLU:HG2	44:RI:105:ARG:HH22	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:31:GLN:HG3	44:RK:37:PRO:HD3	1.64	0.78
45:TF:184:ASN:OD1	45:TF:185:ALA:N	2.16	0.78
44:TG:248:LEU:HA	45:TH:11:GLN:OE1	1.84	0.78
45:TN:318:ARG:HG3	45:TN:358:PRO:HD3	1.66	0.78
44:UA:11:GLN:HE22	44:UA:74:VAL:HG21	1.49	0.78
44:UA:321:GLY:N	44:UA:356:ASN:O	2.16	0.78
45:UB:207:LEU:HD13	45:UB:225:LEU:HD22	1.64	0.78
44:UE:258:ASN:HD22	44:UE:352:LYS:HB2	1.49	0.78
45:UF:290:THR:HA	45:UF:293:MET:CE	2.13	0.78
44:UK:68:LEU:HD21	44:UK:118:CYS:HB2	1.66	0.78
44:UK:352:LYS:HA	45:UL:177:ASP:O	1.83	0.78
44:UK:352:LYS:HD2	45:UL:177:ASP:O	1.84	0.78
45:UL:99:ASN:C	45:UL:142:GLY:HA3	2.04	0.78
44:VE:161:TYR:HB3	44:VE:164:LYS:NZ	2.00	0.78
44:VE:408:TYR:O	44:VE:413:MET:HB2	1.84	0.78
45:VF:11:GLN:HA	45:VF:14:ASN:HD22	1.49	0.78
45:VH:257:LEU:HA	45:VH:312:THR:HG21	1.65	0.78
44:VI:140:SER:OG	46:VI:501:GTP:O2B	2.01	0.78
44:VK:298:PRO:HA	44:VK:301:MET:HG2	1.66	0.78
45:VL:11:GLN:HA	45:VL:14:ASN:HD22	1.48	0.78
45:VL:110:ALA:O	45:VL:113:ILE:HG22	1.83	0.78
45:VL:231:ALA:O	45:VL:235:GLY:N	2.17	0.78
44:WA:2:ARG:HH21	45:WD:69:GLU:HB2	1.49	0.78
45:WB:272:PRO:HD3	45:WB:364:ALA:HA	1.66	0.78
44:WC:181:VAL:HG22	45:WD:256:ASN:ND2	1.99	0.78
44:WG:333:ALA:O	44:WG:337:THR:N	2.17	0.78
22:2L:827:ASP:O	35:5R:100:GLN:NE2	2.17	0.77
27:2W:236:GLU:OE2	35:6R:6:PRO:HD3	1.84	0.77
2:3A:104:ARG:HD3	35:6R:59:MET:SD	2.23	0.77
31:4H:212:ARG:HB3	44:AK:364:PRO:HB3	1.66	0.77
38:5G:154:TYR:HA	38:5H:11:TRP:CZ3	2.19	0.77
42:8L:340:UNK:O	42:8L:344:UNK:N	2.17	0.77
45:AH:153:SER:HB2	45:AH:191:GLN:HE21	1.49	0.77
44:AI:276:ILE:HD13	44:AI:281:ALA:HA	1.66	0.77
44:AK:326:LYS:O	44:AK:329:ASN:N	2.17	0.77
44:AM:89:PRO:HG3	44:BM:280:LYS:CG	2.13	0.77
44:AM:317:MET:HE1	44:AM:377:MET:HB3	1.64	0.77
44:BE:91:GLN:HA	44:BE:121:ARG:HH12	1.48	0.77
45:BJ:318:ARG:HH21	45:BJ:358:PRO:HG3	1.48	0.77
44:BM:133:GLN:O	44:BM:165:SER:OG	2.02	0.77
44:BM:270:SER:HB2	44:BM:378:ILE:HD13	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:272:TYR:HD1	44:BM:376:CYS:HB2	1.49	0.77
44:CM:269:LEU:HD22	44:CM:384:ILE:HD13	1.65	0.77
45:CN:17:GLY:O	45:CN:21:TRP:N	2.17	0.77
44:DA:76:ASP:OD1	44:DA:79:ARG:NH2	2.12	0.77
45:DD:73:MET:CE	45:DD:92:PHE:HB3	2.13	0.77
45:DD:101:TRP:HB3	45:DD:398:TYR:HE1	1.47	0.77
44:DE:51:THR:HG23	44:DE:242:LEU:HD23	1.64	0.77
45:DL:269:GLY:HA2	45:DL:300:MET:HE2	1.63	0.77
45:EB:133:PHE:H	45:EB:164:MET:HE2	1.49	0.77
45:EF:378:PHE:HA	45:EF:381:VAL:HG12	1.65	0.77
45:FB:395:LEU:HG	45:FB:399:THR:HG23	1.66	0.77
44:GG:208:ALA:O	44:GG:212:ILE:N	2.16	0.77
45:GJ:152:ILE:HD12	45:GJ:164:MET:CE	2.13	0.77
44:HM:149:LEU:O	44:HM:153:LEU:N	2.15	0.77
44:HM:186:ASN:O	44:HM:190:SER:N	2.13	0.77
45:JH:105:HIS:CD2	45:JH:150:LEU:HB2	2.19	0.77
44:JI:250:VAL:HG22	44:JI:352:LYS:NZ	1.98	0.77
45:JL:396:HIS:HA	45:JL:399:THR:HG22	1.66	0.77
44:JM:154:LEU:CD1	44:JM:194:LEU:HD13	2.13	0.77
45:KH:77:ARG:HG3	45:KH:82:GLY:O	1.84	0.77
45:KL:139:LEU:HD13	45:KL:168:SER:HB3	1.67	0.77
45:KN:285:THR:HG23	45:KN:287:PRO:HD2	1.66	0.77
45:LB:170:VAL:HG23	45:LB:377:MET:HE3	1.66	0.77
45:LB:383:GLU:O	45:LB:387:ALA:N	2.17	0.77
44:LE:209:ILE:HG12	44:LE:302:MET:SD	2.25	0.77
44:MC:203:MET:HE2	44:MC:205:ASP:HB3	1.63	0.77
44:NA:259:LEU:HD21	44:NA:316:SER:CB	2.13	0.77
44:NC:247:ALA:O	44:NC:248:LEU:HD23	1.81	0.77
44:NE:268:MET:HE1	44:NE:378:ILE:HG22	1.64	0.77
45:NF:405:GLU:HA	45:NF:408:PHE:HD2	1.48	0.77
45:OB:42:LEU:HA	45:OB:45:GLU:HG3	1.65	0.77
44:OK:169:PHE:HE2	44:OK:202:VAL:HG21	1.49	0.77
44:PE:11:GLN:N	46:PE:501:GTP:O2B	2.16	0.77
44:PE:64:ARG:NH1	44:PE:129:CYS:SG	2.57	0.77
45:PF:20:PHE:CZ	45:PF:25:SER:C	2.58	0.77
44:QC:141:VAL:HG11	44:QC:172:TYR:CD1	2.19	0.77
44:QE:276:ILE:CD1	44:QE:281:ALA:HA	2.14	0.77
44:QK:15:GLN:NE2	46:QK:501:GTP:O6	2.16	0.77
44:QK:284:GLU:HG3	44:QK:286:LEU:HD22	1.66	0.77
44:QM:166:LYS:NZ	44:QM:197:HIS:O	2.16	0.77
45:QN:105:HIS:CD2	45:QN:150:LEU:HB2	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:272:TYR:HA	44:RC:376:CYS:HA	1.66	0.77
44:RE:68:LEU:HD22	44:RE:153:LEU:HD11	1.66	0.77
44:RK:11:GLN:HG3	44:RK:74:VAL:HG11	1.66	0.77
45:RL:405:GLU:O	45:RL:409:THR:N	2.16	0.77
44:SE:2:ARG:HH21	44:SE:243:ARG:HA	1.49	0.77
44:SG:270:SER:O	44:SG:302:MET:HG2	1.83	0.77
45:SH:255:VAL:HA	44:SI:407:TRP:CZ3	2.16	0.77
44:SI:171:ILE:HG23	44:SI:204:LEU:O	1.84	0.77
45:SJ:258:ILE:HD13	44:SK:407:TRP:CH2	2.18	0.77
45:SL:202:ILE:HD11	45:SL:268:ILE:HD11	1.65	0.77
45:TB:247:ASN:O	45:TB:252:LYS:NZ	2.14	0.77
44:TG:152:LEU:HD12	44:TG:155:GLU:OE1	1.84	0.77
44:TG:387:VAL:HA	44:TG:390:ARG:HG2	1.65	0.77
45:TL:318:ARG:HB2	45:TL:364:ALA:HB3	1.65	0.77
45:UB:240:LEU:HD13	45:UB:250:LEU:HG	1.66	0.77
45:UF:136:THR:HG22	45:UF:167:PHE:HB2	1.64	0.77
45:UH:166:THR:OG1	45:UH:199:CYS:HA	1.84	0.77
44:UM:287:SER:O	44:UM:290:GLU:HG2	1.83	0.77
45:VB:358:PRO:HG2	45:VB:364:ALA:HB3	1.64	0.77
45:WD:178:THR:HG22	45:WD:180:VAL:H	1.49	0.77
44:WE:207:GLU:HA	44:WE:210:TYR:CD2	2.20	0.77
44:WG:241:SER:OG	44:WG:250:VAL:O	2.02	0.77
45:WH:215:LEU:HB2	45:WH:217:LEU:HD23	1.66	0.77
44:WM:316:SER:O	44:WM:378:ILE:N	2.17	0.77
44:WM:320:ARG:HA	44:WM:356:ASN:HB3	1.64	0.77
3:OB:56:LEU:HD13	45:JH:74:ASP:OD1	1.82	0.77
22:1L:533:ASP:HB2	44:BE:221:ARG:NH1	1.97	0.77
38:5G:210:THR:HG22	44:LK:431:ASP:OD1	1.83	0.77
39:5I:143:LYS:HZ1	44:NC:390:ARG:HB3	1.49	0.77
35:5R:146:LYS:NZ	45:AL:75:SER:OG	2.16	0.77
35:6R:323:LEU:HD21	45:CN:276:ARG:HD3	1.65	0.77
42:8L:413:UNK:O	42:8L:417:UNK:N	2.16	0.77
44:AC:11:GLN:HG3	44:AC:74:VAL:HG21	1.66	0.77
45:AH:86:ARG:NH1	45:BH:281:TYR:HB2	1.99	0.77
45:AL:238:CYS:SG	45:AL:318:ARG:NH1	2.56	0.77
45:BL:201:VAL:HG23	45:BL:301:CYS:SG	2.24	0.77
45:BN:372:THR:HA	45:BN:422:TYR:HE2	1.49	0.77
44:CA:112:LYS:O	44:CA:115:VAL:HG12	1.83	0.77
44:CC:210:TYR:CE1	44:CC:227:LEU:HD11	2.19	0.77
45:CF:86:ARG:CD	45:DF:281:TYR:HB3	2.14	0.77
45:CJ:257:LEU:HB3	45:CJ:266:PHE:CZ	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:372:THR:HA	45:CN:422:TYR:HE2	1.50	0.77
44:DG:223:THR:HG23	44:DG:225:THR:H	1.48	0.77
45:EB:1:MET:O	45:EB:2:ARG:HG2	1.84	0.77
45:ED:423:GLN:NE2	45:ED:424:GLN:OE1	2.17	0.77
44:EE:215:ARG:NH2	44:EE:300:ASN:OD1	2.17	0.77
45:EF:251:ARG:HA	45:EF:254:ALA:HB3	1.67	0.77
44:EG:174:SER:HB3	44:EG:207:GLU:HG3	1.65	0.77
44:EG:384:ILE:O	44:EG:387:VAL:HG22	1.84	0.77
45:EH:67:ASP:OD1	45:EH:68:LEU:N	2.17	0.77
44:EI:416:GLY:O	44:EI:419:SER:OG	2.02	0.77
44:EM:207:GLU:OE1	44:EM:304:LYS:NZ	2.16	0.77
44:FA:14:ILE:HG12	44:FA:75:ILE:HD11	1.66	0.77
44:FC:206:ASN:OD1	44:FC:207:GLU:N	2.17	0.77
45:FD:313:ALA:O	45:FD:350:LYS:N	2.17	0.77
45:FH:200:MET:HE3	45:FH:266:PHE:HB2	1.64	0.77
45:GN:175:VAL:CG2	45:GN:205:GLU:HB2	2.14	0.77
45:GN:190:HIS:ND1	45:GN:411:ALA:HA	1.99	0.77
44:HA:362:VAL:HG21	44:HA:370:LYS:HB3	1.66	0.77
44:HG:288:VAL:HA	44:HG:291:ILE:HG12	1.65	0.77
44:HM:407:TRP:CZ3	45:HN:255:VAL:HG22	2.18	0.77
44:IC:76:ASP:HB2	45:ID:46:ARG:HH22	1.48	0.77
44:IG:174:SER:HB3	44:IG:207:GLU:HB2	1.66	0.77
44:II:89:PRO:HD3	45:JJ:281:TYR:CD2	2.15	0.77
45:IL:16:ILE:HD13	45:IL:226:ASN:OD1	1.84	0.77
44:JE:224:TYR:HE2	45:JF:246:LEU:HD11	1.49	0.77
44:JI:56:THR:HG21	44:JI:60:LYS:HG2	1.66	0.77
44:JI:288:VAL:HG11	44:JI:327:ASP:HB3	1.66	0.77
44:JK:205:ASP:OD1	44:JK:303:ALA:HA	1.84	0.77
45:KJ:272:PRO:HD3	45:KJ:289:LEU:HD23	1.64	0.77
45:KJ:286:VAL:HG21	45:KJ:325:GLU:HG3	1.64	0.77
45:KL:310:TYR:CE1	45:KL:371:SER:HB3	2.17	0.77
44:LC:2:ARG:HH21	44:LC:243:ARG:HA	1.48	0.77
45:LF:166:THR:OG1	45:LF:199:CYS:SG	2.42	0.77
44:LG:137:VAL:HG11	44:LG:154:LEU:HD21	1.66	0.77
44:MA:71:GLU:HG3	45:MB:247:ASN:HD21	1.49	0.77
45:MF:295:ASP:OD2	45:MF:297:LYS:NZ	2.16	0.77
44:NA:271:SER:OG	44:NA:301:MET:HG3	1.83	0.77
44:NA:274:PRO:HB2	44:NA:276:ILE:HD11	1.64	0.77
45:ND:328:GLU:O	45:ND:332:ASN:N	2.16	0.77
45:NF:3:GLU:OE2	45:NF:128:ASP:N	2.16	0.77
44:NM:396:ASP:OD1	44:NM:422:ARG:NH1	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:209:ILE:HD13	44:OE:302:MET:HG2	1.65	0.77
44:OE:352:LYS:HB2	45:OH:179:VAL:HG13	1.64	0.77
45:QD:323:THR:O	45:QD:326:VAL:HG12	1.83	0.77
44:QE:1:MET:HG2	44:QE:2:ARG:HH11	1.49	0.77
45:QF:350:LYS:NZ	45:QF:351:SER:O	2.17	0.77
45:QH:248:SER:CA	45:QH:252:LYS:HD2	2.14	0.77
44:QK:13:GLY:O	44:QK:17:GLY:N	2.13	0.77
44:QK:175:PRO:HG2	44:QK:304:LYS:HG2	1.66	0.77
44:QK:416:GLY:O	44:QK:419:SER:OG	2.01	0.77
45:QN:152:ILE:HG22	45:QN:195:ASN:HB2	1.65	0.77
45:QN:210:ILE:O	45:QN:214:THR:OG1	2.00	0.77
45:RJ:4:ILE:CG2	45:RJ:131:GLN:HB3	2.14	0.77
44:SA:271:SER:O	44:SA:377:MET:N	2.14	0.77
45:SB:217:LEU:HD11	45:SB:220:PRO:HG3	1.65	0.77
44:SG:69:ASP:OD1	44:SG:70:LEU:N	2.17	0.77
44:SG:105:ARG:HA	44:SG:109:THR:CB	2.10	0.77
44:SM:136:LEU:HD23	44:SM:167:LEU:HB2	1.66	0.77
45:TB:97:ALA:HB3	45:TB:143:THR:HB	1.66	0.77
45:TJ:86:ARG:NH1	45:TJ:86:ARG:HA	1.99	0.77
45:TL:342:VAL:HG13	45:TL:345:ILE:HG22	1.67	0.77
45:UD:214:THR:HG21	45:UD:273:LEU:HB3	1.65	0.77
44:UG:185:TYR:CE2	44:UG:404:PHE:HB2	2.14	0.77
44:VA:140:SER:OG	46:VA:501:GTP:O2B	2.01	0.77
44:VC:9:VAL:HG11	44:VC:149:LEU:HB2	1.64	0.77
44:VE:19:ALA:CB	44:VE:228:ASN:HB3	2.14	0.77
45:VH:135:ILE:N	45:VH:165:GLU:O	2.17	0.77
44:VK:7:ILE:HB	44:VK:137:VAL:HG23	1.65	0.77
45:WF:156:ARG:HD3	45:WF:164:MET:HG3	1.65	0.77
45:WH:7:ILE:HB	45:WH:135:ILE:CD1	2.14	0.77
44:WI:326:LYS:HB2	45:WL:212:PHE:HZ	1.50	0.77
44:WM:3:GLU:O	44:WM:133:GLN:N	2.16	0.77
44:WM:213:CYS:O	44:WM:217:LEU:N	2.13	0.77
2:0A:36:ARG:NH2	45:MB:42:LEU:O	2.17	0.77
20:1J:152:LYS:HG3	45:IH:227:HIS:ND1	1.98	0.77
26:2R:92:TRP:HZ3	44:AG:370:LYS:HG2	1.46	0.77
2:3A:29:TRP:CZ2	45:MN:362:LYS:HG2	2.18	0.77
32:3I:268:ARG:NH1	45:GJ:209:ASP:OD2	2.17	0.77
37:5D:115:ASP:N	44:NM:373:ARG:HH11	1.82	0.77
39:5K:69:LYS:HD2	45:JN:421:GLU:HG2	1.66	0.77
41:6G:270:THR:HG23	44:VA:298:PRO:HG3	1.65	0.77
35:6R:417:TYR:CZ	44:EM:372:MET:HE1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:415:LYS:NZ	35:7R:451:ASP:OD2	2.17	0.77
42:8N:18:UNK:O	42:8N:22:UNK:N	2.18	0.77
44:AC:101:ASN:HA	44:AC:144:GLY:HA3	1.64	0.77
44:AC:288:VAL:HA	44:AC:291:ILE:HG12	1.66	0.77
45:AF:103:LYS:HA	45:AF:107:THR:HG22	1.64	0.77
44:AM:14:ILE:HD11	44:AM:69:ASP:HB2	1.66	0.77
45:AN:286:VAL:HG22	45:AN:287:PRO:HD3	1.67	0.77
44:BA:221:ARG:NH2	45:BB:325:GLU:N	2.32	0.77
44:BE:238:LEU:HA	44:BE:318:MET:CE	2.13	0.77
44:BE:239:THR:HB	44:BE:242:LEU:HD12	1.66	0.77
45:BF:147:MET:HA	45:BF:150:LEU:CD2	2.14	0.77
44:BI:288:VAL:HA	44:BI:291:ILE:HG12	1.66	0.77
44:BM:180:ALA:HA	45:BN:350:LYS:NZ	2.00	0.77
44:CE:195:LEU:HD11	44:CE:428:LEU:HD13	1.65	0.77
45:CJ:61:PRO:CD	45:CJ:84:LEU:HB3	2.14	0.77
44:DE:14:ILE:HD11	44:DE:69:ASP:HB2	1.65	0.77
44:DE:249:ASN:HB2	45:DF:11:GLN:HE22	1.49	0.77
45:DJ:86:ARG:HD3	45:EJ:281:TYR:CB	2.13	0.77
44:EC:215:ARG:NH2	44:EC:300:ASN:OD1	2.17	0.77
44:EE:270:SER:O	44:EE:302:MET:HG2	1.85	0.77
44:EE:321:GLY:N	44:EE:356:ASN:O	2.15	0.77
45:EF:404:ASP:OD1	45:EF:407:GLU:N	2.15	0.77
45:EL:237:THR:HG23	45:EL:241:ARG:HE	1.49	0.77
45:EN:217:LEU:HD11	45:EN:220:PRO:HA	1.66	0.77
45:FB:1:MET:O	45:FB:2:ARG:HG2	1.84	0.77
45:FH:318:ARG:CD	45:FH:358:PRO:HD3	2.13	0.77
44:FM:149:LEU:HA	44:FM:152:LEU:HB3	1.65	0.77
44:GA:5:ILE:HG23	44:GA:64:ARG:O	1.84	0.77
44:GA:200:VAL:HG22	44:GA:256:GLN:HB3	1.64	0.77
45:GF:97:ALA:HB3	45:GF:143:THR:HB	1.64	0.77
45:GF:317:PHE:HB2	45:GF:353:ILE:HD13	1.67	0.77
44:GG:407:TRP:CZ3	45:GH:255:VAL:HA	2.17	0.77
44:GM:15:GLN:OE1	46:GM:501:GTP:N7	2.17	0.77
44:HA:141:VAL:HG22	44:HA:187:SER:HA	1.67	0.77
45:HB:372:THR:HB	45:HB:375:GLN:NE2	1.99	0.77
45:HD:27:GLU:OE2	45:HD:241:ARG:NH1	2.16	0.77
45:HF:204:ASN:HA	45:HF:207:LEU:HD12	1.66	0.77
45:HH:210:ILE:HD11	45:HH:299:MET:O	1.83	0.77
44:HK:226:ASN:ND2	44:HK:367:ASP:OD2	2.17	0.77
45:HL:372:THR:HA	45:HL:422:TYR:HE2	1.46	0.77
44:IA:247:ALA:HB2	44:IA:357:TYR:OH	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:6:SER:OG	44:IE:64:ARG:O	2.03	0.77
44:IG:402:ARG:HB2	44:IG:405:VAL:HG21	1.65	0.77
45:IH:207:LEU:HB3	45:IH:225:LEU:HD22	1.65	0.77
45:IH:274:THR:HG21	45:IH:279:GLN:HG3	1.64	0.77
44:II:102:ASN:OD1	44:II:105:ARG:N	2.17	0.77
44:IK:271:SER:OG	44:IK:301:MET:HA	1.84	0.77
45:IN:49:VAL:HG11	45:IN:240:LEU:HD22	1.66	0.77
45:IN:135:ILE:HB	45:IN:166:THR:HG22	1.65	0.77
44:JA:36:MET:SD	44:JA:38:SER:N	2.55	0.77
45:JB:254:ALA:O	45:JB:258:ILE:HG12	1.85	0.77
44:JC:439:THR:OG1	45:JF:390:ARG:NH1	2.16	0.77
44:KA:178:SER:HB3	45:KB:347:ASN:ND2	1.99	0.77
44:KC:73:THR:HB	45:KD:247:ASN:HD21	1.48	0.77
44:KG:340:THR:HG23	44:KG:341:ILE:CD1	2.14	0.77
45:LL:247:ASN:O	45:LL:252:LYS:NZ	2.16	0.77
45:MF:100:ASN:ND2	45:MF:401:GLU:OE1	2.16	0.77
44:MG:281:ALA:O	44:MG:286:LEU:HD11	1.84	0.77
45:MJ:39:ASP:N	45:MJ:43:GLN:OE1	2.13	0.77
44:NA:320:ARG:HG3	44:NA:360:PRO:HG3	1.64	0.77
45:NN:31:ASP:OD1	45:NN:34:GLY:N	2.17	0.77
45:OH:286:VAL:HG12	45:OH:329:GLN:OE1	1.85	0.77
44:OK:265:ILE:HD12	44:OK:432:TYR:CE1	2.18	0.77
44:OK:275:ILE:HG23	44:OK:368:LEU:HD11	1.67	0.77
44:PA:139:ASN:O	44:PA:170:THR:HA	1.83	0.77
44:PK:1:MET:SD	44:PK:2:ARG:NH1	2.58	0.77
44:PK:221:ARG:NE	45:PL:322:SER:OG	2.18	0.77
45:QH:263:LEU:HG	45:QH:422:TYR:HE1	1.48	0.77
44:QK:352:LYS:NZ	45:QL:178:THR:HA	1.99	0.77
44:RE:195:LEU:HD11	44:RE:428:LEU:HD13	1.66	0.77
45:RF:61:PRO:CG	45:RF:84:LEU:HB3	2.13	0.77
45:RJ:68:LEU:HD23	45:RJ:97:ALA:CA	2.14	0.77
45:RJ:96:GLY:O	45:RJ:103:LYS:NZ	2.16	0.77
45:RJ:204:ASN:OD1	48:RJ:501:GDP:O2'	2.02	0.77
44:RM:230:LEU:CD1	44:RM:275:ILE:HD13	2.14	0.77
44:SC:276:ILE:CD1	44:SC:281:ALA:HA	2.14	0.77
44:SI:174:SER:HB2	44:SI:177:VAL:O	1.84	0.77
45:TF:40:SER:OG	45:TF:43:GLN:HG3	1.84	0.77
45:TF:313:ALA:HA	45:TF:369:GLY:HA2	1.63	0.77
45:TJ:11:GLN:N	48:TJ:501:GDP:O1B	2.15	0.77
44:TK:313:MET:HE2	44:TK:380:ASN:HB3	1.65	0.77
44:UE:311:LYS:HE2	44:UE:342:GLN:NE2	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:419:SER:O	44:UI:423:GLU:HG3	1.83	0.77
45:UJ:255:VAL:HA	44:UK:407:TRP:CH2	2.19	0.77
45:UL:299:MET:CE	45:UL:305:PRO:HD3	2.14	0.77
45:UN:25:SER:O	45:UN:29:GLY:N	2.17	0.77
44:VG:102:ASN:O	44:VG:105:ARG:N	2.17	0.77
44:VG:104:ALA:HA	44:VG:413:MET:HE3	1.67	0.77
44:VG:164:LYS:NZ	44:VG:165:SER:OG	2.17	0.77
45:VH:239:CYS:SG	45:VH:248:SER:OG	2.36	0.77
44:VI:222:PRO:HD2	45:VJ:324:LYS:HG2	1.67	0.77
44:VK:68:LEU:HD21	44:VK:118:CYS:HB2	1.66	0.77
45:VN:152:ILE:HD12	45:VN:164:MET:HE1	1.66	0.77
44:WC:31:GLN:HE21	44:WC:37:PRO:CG	1.96	0.77
44:WE:34:GLY:O	44:WE:60:LYS:HA	1.83	0.77
44:WI:3:GLU:HG2	44:WI:64:ARG:HH12	1.48	0.77
44:WK:233:GLN:O	44:WK:236:SER:OG	2.03	0.77
15:1V:146:PRO:HG3	44:LK:414:GLU:CD	2.03	0.77
37:5D:34:PHE:CE2	44:KK:430:LYS:C	2.50	0.77
37:5D:43:CYS:SG	44:KK:346:TRP:HB2	2.23	0.77
42:8N:246:UNK:O	42:8N:250:UNK:N	2.17	0.77
44:AE:237:SER:HA	44:AE:320:ARG:NH1	2.00	0.77
44:AE:241:SER:OG	44:AE:250:VAL:O	2.00	0.77
45:AH:135:ILE:HG12	45:AH:164:MET:CE	2.13	0.77
44:BC:52:PHE:HE1	44:BC:239:THR:HG21	1.47	0.77
45:BF:193:VAL:O	45:BF:262:ARG:NH2	2.18	0.77
45:BH:242:PHE:CD2	45:BH:356:ILE:HG13	2.19	0.77
45:BH:336:LYS:HD2	45:BH:337:ASN:OD1	1.84	0.77
44:BI:51:THR:HG21	44:BI:243:ARG:HB3	1.65	0.77
44:BI:347:CYS:HA	45:BL:388:MET:HE1	1.65	0.77
44:CA:287:SER:O	44:CA:291:ILE:HG23	1.85	0.77
44:CC:166:LYS:HD2	44:CC:197:HIS:O	1.83	0.77
45:CD:248:SER:HA	45:CD:252:LYS:HE2	1.65	0.77
44:CE:261:PRO:HG2	44:CE:313:MET:SD	2.24	0.77
44:CI:55:GLU:HG3	44:CI:57:GLY:H	1.49	0.77
45:DD:99:ASN:HA	45:DD:142:GLY:H	1.48	0.77
45:DD:259:PRO:HA	44:DE:404:PHE:CE1	2.19	0.77
44:DI:155:GLU:HA	44:DI:197:HIS:CD2	2.20	0.77
44:EA:141:VAL:HG11	44:EA:172:TYR:CD1	2.19	0.77
44:EA:311:LYS:N	44:EA:382:THR:OG1	2.16	0.77
45:EB:30:ILE:HG23	45:EB:34:GLY:HA2	1.65	0.77
45:EB:226:ASN:OD1	48:EB:501:GDP:N1	2.15	0.77
45:EB:319:GLY:N	45:EB:354:CYS:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EE:143:GLY:O	44:EE:147:SER:N	2.17	0.77
45:EH:168:SER:OG	45:EH:200:MET:HE2	1.84	0.77
45:EL:302:ALA:HB3	45:EL:377:MET:HE1	1.65	0.77
44:EM:70:LEU:HD13	44:EM:145:THR:OG1	1.84	0.77
45:EN:120:VAL:HG21	45:EN:151:LEU:HD11	1.66	0.77
45:EN:293:MET:SD	45:EN:367:PHE:HB2	2.25	0.77
44:FM:145:THR:O	44:FM:149:LEU:HB2	1.84	0.77
45:GD:274:THR:HG21	45:GD:279:GLN:HG3	1.65	0.77
45:GF:108:GLU:O	45:GF:111:GLU:HG3	1.85	0.77
44:GG:172:TYR:HB2	44:GG:203:MET:CE	2.14	0.77
44:GG:271:SER:N	44:GG:377:MET:SD	2.57	0.77
44:GI:384:ILE:HG13	44:GI:388:PHE:HE1	1.50	0.77
44:GK:68:LEU:HD13	44:GK:93:ILE:HB	1.65	0.77
45:GN:193:VAL:HG21	45:GN:418:LEU:HD22	1.65	0.77
44:HC:203:MET:O	44:HC:204:LEU:HD23	1.83	0.77
44:HI:315:CYS:O	44:HI:351:PHE:HA	1.84	0.77
44:HM:76:ASP:OD1	44:HM:79:ARG:NH2	2.18	0.77
45:HN:86:ARG:NH2	45:IN:277:GLY:O	2.16	0.77
45:IJ:173:PRO:CG	45:IJ:380:ARG:HD3	2.11	0.77
45:IL:51:TYR:HE1	45:IL:61:PRO:HG3	1.50	0.77
44:JI:174:SER:HB3	44:JI:207:GLU:HB2	1.66	0.77
44:JM:273:ALA:HB1	44:JM:274:PRO:HA	1.65	0.77
45:JN:69:GLU:OE2	45:JN:72:THR:OG1	1.99	0.77
44:KA:377:MET:HE3	44:KA:379:SER:HB3	1.65	0.77
44:KE:5:ILE:CD1	44:KE:125:LEU:HD21	2.15	0.77
45:KF:105:HIS:CD2	45:KF:150:LEU:HB2	2.20	0.77
44:LC:254:GLU:HG2	45:LF:98:GLY:HA2	1.66	0.77
45:LJ:295:ASP:OD2	45:LJ:297:LYS:NZ	2.14	0.77
45:LN:49:VAL:HG11	45:LN:241:ARG:CG	2.13	0.77
44:MC:172:TYR:HB2	44:MC:203:MET:CE	2.15	0.77
44:MG:174:SER:N	44:MG:211:ASP:OD1	2.17	0.77
44:NA:11:GLN:N	46:NA:501:GTP:O1B	2.18	0.77
45:NB:394:PHE:HA	45:NB:397:TRP:HZ3	1.48	0.77
45:NF:386:THR:OG1	45:NF:390:ARG:NH2	2.17	0.77
45:OB:167:PHE:HA	45:OB:200:MET:HB2	1.65	0.77
44:OC:137:VAL:HG12	44:OC:167:LEU:O	1.85	0.77
45:ON:116:VAL:O	45:ON:120:VAL:HG23	1.84	0.77
44:PA:396:ASP:OD1	44:PA:397:LEU:N	2.17	0.77
44:PC:102:ASN:HB3	44:PC:105:ARG:HB2	1.66	0.77
44:PC:172:TYR:HB2	44:PC:203:MET:CE	2.15	0.77
44:PE:2:ARG:NH1	44:PE:242:LEU:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PJ:103:LYS:HA	45:PJ:107:THR:OG1	1.84	0.77
45:PJ:167:PHE:CZ	45:PJ:200:MET:HG3	2.18	0.77
45:PJ:302:ALA:HB3	45:PJ:377:MET:HE1	1.66	0.77
45:PL:65:LEU:HD12	45:PL:90:PHE:CZ	2.19	0.77
45:QL:6:HIS:NE2	45:QL:8:GLN:HB3	1.99	0.77
45:RF:318:ARG:HB3	45:RF:357:PRO:HA	1.66	0.77
44:RM:431:ASP:O	44:RM:435:VAL:N	2.18	0.77
45:SB:143:THR:O	45:SB:147:MET:N	2.14	0.77
44:SE:105:ARG:O	44:SE:110:ILE:HG12	1.84	0.77
44:SG:384:ILE:O	44:SG:387:VAL:HG22	1.85	0.77
44:SI:16:VAL:HA	44:SI:228:ASN:HD21	1.48	0.77
45:SL:334:GLN:HG3	45:SL:341:PHE:CD2	2.18	0.77
45:TB:52:ASN:OD1	45:TB:62:ARG:NH2	2.16	0.77
45:TD:398:TYR:O	45:TD:403:MET:HB2	1.85	0.77
45:TF:178:THR:N	45:TF:181:GLU:OE2	2.17	0.77
45:TF:210:ILE:HG21	45:TF:273:LEU:HD12	1.65	0.77
44:UC:333:ALA:HA	44:UC:336:LYS:NZ	1.99	0.77
45:UD:267:MET:CE	45:UD:299:MET:HG3	2.15	0.77
44:UE:251:ASP:O	44:UE:254:GLU:N	2.18	0.77
45:UF:207:LEU:HB3	45:UF:225:LEU:HD22	1.66	0.77
44:VA:93:ILE:HD11	44:VA:121:ARG:HG3	1.66	0.77
45:VH:1:MET:O	45:VH:2:ARG:HG2	1.84	0.77
44:WA:206:ASN:OD1	44:WA:207:GLU:N	2.17	0.77
45:WB:312:THR:HA	45:WB:348:ASN:HB2	1.66	0.77
45:WD:24:ILE:HG23	45:WD:28:HIS:HD2	1.49	0.77
45:WF:97:ALA:HB2	45:WF:143:THR:HB	1.64	0.77
45:WL:156:ARG:NH1	45:WL:162:ARG:O	2.18	0.77
45:WN:244:GLY:HA2	45:WN:355:ASP:OD2	1.84	0.77
22:1L:641:ALA:HB1	45:CD:40:SER:HB3	1.65	0.77
22:2L:555:LYS:HE2	45:BN:320:ARG:HH11	1.48	0.77
22:2L:872:MET:O	45:CJ:320:ARG:NH2	2.16	0.77
27:2W:248:GLN:CD	35:6R:17:PHE:HZ	1.87	0.77
35:5R:469:LYS:O	45:EJ:77:ARG:NH2	2.17	0.77
35:6R:323:LEU:HD22	45:CN:276:ARG:CD	2.13	0.77
44:AA:209:ILE:HG12	44:AA:227:LEU:HD22	1.66	0.77
44:AC:362:VAL:HG11	44:AC:370:LYS:HB3	1.64	0.77
44:AE:221:ARG:HD2	45:AF:322:SER:CB	2.15	0.77
44:BA:396:ASP:OD1	44:BA:422:ARG:NH1	2.17	0.77
45:BB:86:ARG:HE	45:BB:87:PRO:HD2	1.50	0.77
44:BC:209:ILE:CG2	44:BC:227:LEU:HD22	2.14	0.77
44:BE:64:ARG:NH1	44:BE:129:CYS:SG	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:97:GLU:HG2	44:BG:105:ARG:HH22	1.49	0.77
44:BI:96:LYS:HB3	45:BJ:1:MET:HE1	1.64	0.77
44:BI:261:PRO:HG2	44:BI:313:MET:CE	2.14	0.77
44:BM:215:ARG:NH2	44:BM:299:ALA:O	2.16	0.77
45:CB:211:CYS:SG	45:CB:217:LEU:HD21	2.25	0.77
45:CF:267:MET:HE3	45:CF:301:CYS:HB2	1.67	0.77
45:DD:258:ILE:HD13	44:DE:407:TRP:HH2	1.47	0.77
44:DE:270:SER:O	44:DE:302:MET:HB2	1.83	0.77
44:DK:67:PHE:HB2	44:DK:92:LEU:HG	1.67	0.77
45:DN:173:PRO:HG2	45:DN:380:ARG:HD3	1.67	0.77
45:EB:136:THR:HG22	45:EB:167:PHE:CD2	2.20	0.77
45:EB:376:GLU:HA	45:EB:379:LYS:HD3	1.67	0.77
45:ED:256:ASN:HD22	45:ED:350:LYS:HD2	1.50	0.77
44:EE:64:ARG:NH1	44:EE:129:CYS:SG	2.58	0.77
45:EN:290:THR:HG22	45:EN:333:VAL:HG21	1.65	0.77
44:FA:169:PHE:HB3	44:FA:204:LEU:HD11	1.66	0.77
44:FE:222:PRO:CD	45:FF:324:LYS:HG3	2.14	0.77
45:FN:207:LEU:HD23	45:FN:210:ILE:HD12	1.67	0.77
44:GC:120:ASP:HA	44:GC:123:ARG:NH1	1.99	0.77
45:GD:6:HIS:NE2	45:GD:8:GLN:HB3	1.97	0.77
44:GI:306:ASP:OD2	44:GI:308:ARG:HB2	1.84	0.77
44:HA:254:GLU:HG2	45:HD:98:GLY:HA2	1.66	0.77
45:HJ:163:ILE:CD1	45:HJ:250:LEU:HD22	2.14	0.77
45:HL:186:THR:HG22	45:HL:381:VAL:HG12	1.66	0.77
45:HN:186:THR:HG21	45:HN:385:PHE:CE1	2.16	0.77
45:IB:332:ASN:HA	45:IB:335:ASN:HB2	1.66	0.77
45:IF:68:LEU:HD11	45:IF:108:GLU:CG	2.14	0.77
44:IM:76:ASP:OD1	44:IM:79:ARG:NH2	2.18	0.77
44:JE:174:SER:HB3	44:JE:207:GLU:HB2	1.64	0.77
45:JF:60:VAL:HG11	45:JF:86:ARG:HE	1.49	0.77
44:JI:3:GLU:HG2	44:JI:64:ARG:HH12	1.49	0.77
45:KB:156:ARG:NH1	45:KB:160:PRO:HA	1.98	0.77
45:KN:279:GLN:OE1	45:KN:280:GLN:NE2	2.17	0.77
44:LG:262:TYR:CE1	45:LJ:393:ALA:HA	2.20	0.77
45:ND:106:TYR:CD2	45:ND:403:MET:HE3	2.20	0.77
45:NF:178:THR:HB	45:NF:181:GLU:CG	2.14	0.77
45:NH:203:ASP:OD2	45:NH:302:ALA:N	2.17	0.77
44:OA:217:LEU:HA	44:OA:277:SER:OG	1.83	0.77
44:OC:32:PRO:HB3	44:OC:83:TYR:HE1	1.49	0.77
44:OC:72:PRO:HD2	45:OD:2:ARG:HH21	1.48	0.77
44:OM:335:ILE:HG23	44:OM:341:ILE:HD13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PA:8:HIS:CD2	44:PA:138:PHE:HB2	2.19	0.77
45:PD:5:VAL:HG12	45:PD:162:ARG:CG	2.15	0.77
45:PD:48:ASN:HA	45:PD:51:TYR:O	1.84	0.77
44:PK:73:THR:OG1	45:PL:247:ASN:ND2	2.16	0.77
44:QA:54:SER:OG	44:QA:62:VAL:O	2.02	0.77
44:QG:294:SER:HA	44:QG:297:GLU:HG3	1.67	0.77
45:QH:122:LYS:O	45:QH:126:GLY:N	2.17	0.77
45:QH:318:ARG:HD3	45:QH:358:PRO:HD3	1.66	0.77
45:QL:188:SER:O	45:QL:192:LEU:N	2.18	0.77
45:QL:355:ASP:O	45:QL:356:ILE:HD13	1.84	0.77
45:RB:289:LEU:HD13	45:RB:365:VAL:HG23	1.65	0.77
44:RE:141:VAL:HG12	44:RE:171:ILE:O	1.85	0.77
45:RF:318:ARG:HD3	45:RF:358:PRO:CD	2.14	0.77
44:RI:2:ARG:NH2	45:RJ:69:GLU:OE2	2.18	0.77
45:RJ:318:ARG:N	45:RJ:364:ALA:O	2.17	0.77
45:RL:274:THR:HB	45:RL:282:ARG:HH11	1.48	0.77
45:RL:378:PHE:HB3	45:RL:419:VAL:HG22	1.67	0.77
44:SA:284:GLU:HG3	44:SA:286:LEU:CD2	2.14	0.77
44:SA:326:LYS:CG	45:SB:220:PRO:HD2	2.13	0.77
44:SC:254:GLU:CG	45:SD:98:GLY:HA2	2.11	0.77
44:SE:99:ALA:O	44:SE:100:ALA:N	2.17	0.77
44:SG:276:ILE:CD1	44:SG:281:ALA:HA	2.13	0.77
45:SH:404:ASP:OD1	45:SH:406:MET:HG2	1.84	0.77
44:SK:10:GLY:O	44:SK:14:ILE:HD12	1.83	0.77
44:TA:256:GLN:HB2	44:TA:260:VAL:HB	1.66	0.77
44:TG:68:LEU:HD21	44:TG:118:CYS:HB2	1.67	0.77
45:TJ:272:PRO:HG3	45:TJ:289:LEU:HD21	1.63	0.77
45:UB:132:GLY:HA3	45:UB:163:ILE:HG12	1.67	0.77
44:UC:230:LEU:HD21	44:UC:368:LEU:HD23	1.66	0.77
45:UF:363:MET:HE3	45:UF:363:MET:HA	1.67	0.77
45:UH:199:CYS:O	45:UH:266:PHE:N	2.16	0.77
44:UK:70:LEU:HD13	44:UK:110:ILE:HD11	1.67	0.77
45:VD:215:LEU:CD2	45:VD:217:LEU:HD23	2.13	0.77
44:VG:217:LEU:HD21	44:VG:275:ILE:HG22	1.65	0.77
45:VJ:223:GLY:O	45:VJ:227:HIS:N	2.17	0.77
44:VK:224:TYR:O	44:VK:228:ASN:N	2.12	0.77
45:VN:4:ILE:HG22	45:VN:132:GLY:N	2.00	0.77
44:WA:340:THR:HG23	44:WA:341:ILE:HG13	1.66	0.77
45:WF:7:ILE:HB	45:WF:135:ILE:CD1	2.14	0.77
45:WH:122:LYS:NZ	45:WH:123:GLU:OE2	2.16	0.77
44:WK:241:SER:OG	44:WK:250:VAL:O	2.01	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:328:VAL:O	44:WK:332:ILE:HG12	1.84	0.77
3:OB:57:SER:HB2	44:JE:2:ARG:HH12	1.48	0.77
10:ON:162:CYS:H	45:KN:276:ARG:HE	1.33	0.77
14:OU:194:ARG:NH1	45:WB:78:ALA:O	2.16	0.77
9:1H:252:ARG:HH21	44:HE:37:PRO:HD2	1.48	0.77
2:3A:104:ARG:CG	35:6R:59:MET:SD	2.71	0.77
6:3E:119:ASP:HA	35:6R:579:ASN:ND2	1.25	0.77
37:5C:138:ARG:NH2	45:NL:357:PRO:O	2.18	0.77
41:6G:210:ARG:NH1	45:VF:296:ALA:O	2.17	0.77
45:AB:103:LYS:HA	45:AB:107:THR:OG1	1.84	0.77
45:AB:285:THR:N	45:AB:288:GLU:OE2	2.17	0.77
44:AE:284:GLU:HG3	44:AE:286:LEU:CD2	2.14	0.77
44:AK:311:LYS:H	44:AK:382:THR:HB	1.48	0.77
44:BG:384:ILE:O	44:BG:387:VAL:HG12	1.85	0.77
44:BK:143:GLY:HA3	46:BK:501:GTP:O2B	1.83	0.77
44:CC:14:ILE:HD11	44:CC:69:ASP:HB2	1.67	0.77
44:CG:26:LEU:HD23	44:CG:363:VAL:HA	1.66	0.77
45:CJ:202:ILE:HD13	45:CJ:229:VAL:HG22	1.66	0.77
45:CJ:260:PHE:HB3	45:CJ:261:PRO:HD2	1.66	0.77
45:CN:9:GLY:HA2	45:CN:66:MET:O	1.83	0.77
45:CN:262:ARG:NH1	45:CN:421:GLU:OE1	2.17	0.77
45:DF:28:HIS:NE2	45:DF:241:ARG:HD2	1.99	0.77
44:DM:183:GLU:HG2	44:DM:184:PRO:HD3	1.65	0.77
44:EA:231:ILE:HA	44:EA:234:VAL:CG2	2.15	0.77
44:EA:310:GLY:CA	44:EA:383:ALA:HB2	2.15	0.77
45:EJ:174:LYS:HE3	45:EJ:205:GLU:HG3	1.65	0.77
45:EL:259:PRO:HD2	45:EL:260:PHE:H	1.50	0.77
45:FD:11:GLN:HB3	48:FD:502:GDP:O3B	1.85	0.77
45:FF:138:SER:HA	45:FF:169:VAL:HG22	1.65	0.77
44:FG:208:ALA:O	44:FG:212:ILE:HD12	1.84	0.77
44:FM:88:HIS:CE1	44:FM:90:GLU:HG2	2.19	0.77
44:GA:104:ALA:HB3	44:GA:411:GLU:HB3	1.66	0.77
45:GB:237:THR:HG23	45:GB:241:ARG:HH21	1.48	0.77
44:GK:404:PHE:HE1	45:GL:259:PRO:HA	1.44	0.77
45:HB:155:VAL:O	45:HB:159:TYR:N	2.17	0.77
44:HG:51:THR:HG21	44:HG:243:ARG:HB3	1.66	0.77
44:IG:210:TYR:HB3	45:IH:324:LYS:HD2	1.65	0.77
45:IN:32:PRO:HG3	45:IN:81:PHE:CE1	2.18	0.77
44:JA:384:ILE:O	44:JA:387:VAL:HG22	1.84	0.77
45:JB:263:LEU:O	45:JB:370:ASN:ND2	2.17	0.77
44:JG:292:THR:HG21	44:JG:331:SER:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:180:ALA:HB3	44:JK:183:GLU:HB3	1.65	0.77
45:KB:315:ALA:H	45:KB:350:LYS:HE3	1.49	0.77
44:KG:103:PHE:CD2	44:KG:189:LEU:HD23	2.20	0.77
45:KH:154:LYS:HA	45:KH:154:LYS:HE2	1.66	0.77
45:KH:252:LYS:HE3	45:KH:350:LYS:HE3	1.64	0.77
44:KI:123:ARG:NH2	44:KI:160:ASP:OD2	2.18	0.77
44:KK:267:PHE:O	44:KK:380:ASN:ND2	2.16	0.77
44:LG:99:ALA:HB3	44:LG:145:THR:HB	1.67	0.77
44:LM:150:GLY:O	44:LM:154:LEU:N	2.17	0.77
44:MA:76:ASP:OD1	44:MA:79:ARG:NH2	2.16	0.77
45:MB:383:GLU:O	45:MB:386:THR:HG22	1.84	0.77
45:MD:257:LEU:HD13	45:MD:312:THR:HG23	1.67	0.77
44:ME:432:TYR:O	44:ME:434:GLU:N	2.17	0.77
45:MF:330:MET:CE	45:MF:349:ILE:HG21	2.13	0.77
44:MG:348:PRO:HD2	45:MJ:388:MET:HE3	1.65	0.77
45:MH:318:ARG:CG	45:MH:358:PRO:HD3	2.14	0.77
44:MK:16:VAL:HA	44:MK:228:ASN:HD22	1.49	0.77
45:NB:223:GLY:O	45:NB:227:HIS:N	2.16	0.77
45:NB:313:ALA:HB3	45:NB:349:ILE:HD12	1.67	0.77
44:NC:175:PRO:HG2	44:NC:304:LYS:HD3	1.66	0.77
45:ND:307:HIS:ND1	45:ND:376:GLU:OE2	2.16	0.77
44:NK:77:GLU:HA	44:NK:80:THR:CG2	2.14	0.77
45:NN:386:THR:OG1	45:NN:390:ARG:NH2	2.17	0.77
44:OK:222:PRO:O	45:OL:322:SER:OG	2.02	0.77
44:PE:98:ASP:OD1	44:PE:99:ALA:N	2.18	0.77
45:PF:42:LEU:HD23	45:PF:243:PRO:HG2	1.67	0.77
45:PF:257:LEU:HD11	45:PF:314:SER:HB2	1.66	0.77
45:PJ:10:GLY:O	45:PJ:14:ASN:ND2	2.17	0.77
44:QA:313:MET:HG3	44:QA:382:THR:CG2	2.15	0.77
44:QG:76:ASP:OD1	44:QG:79:ARG:NH2	2.17	0.77
45:QH:1:MET:O	45:QH:2:ARG:HG2	1.85	0.77
44:QM:211:ASP:OD1	44:QM:214:ARG:NE	2.17	0.77
44:RE:276:ILE:HG12	44:RE:281:ALA:HB2	1.66	0.77
44:RG:209:ILE:HG12	44:RG:302:MET:CE	2.15	0.77
44:RI:155:GLU:HA	44:RI:197:HIS:CE1	2.18	0.77
45:RJ:227:HIS:O	45:RJ:231:ALA:N	2.15	0.77
45:RN:119:VAL:O	45:RN:123:GLU:N	2.13	0.77
45:SB:376:GLU:O	45:SB:379:LYS:N	2.13	0.77
44:SG:203:MET:HG3	44:SG:384:ILE:CD1	2.15	0.77
45:SH:407:GLU:HA	45:SH:410:GLU:HG2	1.67	0.77
45:SN:60:VAL:HG11	45:SN:86:ARG:HH12	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TC:56:THR:O	44:UC:285:GLN:HB3	1.83	0.77
45:TD:132:GLY:HA3	45:TD:163:ILE:CG1	2.15	0.77
44:TE:328:VAL:O	44:TE:332:ILE:HG12	1.85	0.77
45:TL:258:ILE:HG23	45:TL:263:LEU:O	1.85	0.77
44:UC:141:VAL:HG11	44:UC:172:TYR:HD1	1.50	0.77
45:UH:309:ARG:NH2	45:UH:426:GLN:O	2.17	0.77
45:UH:322:SER:OG	45:UH:324:LYS:N	2.18	0.77
45:UL:121:ARG:O	45:UL:125:GLU:N	2.16	0.77
45:UN:296:ALA:O	45:UN:299:MET:HG2	1.84	0.77
44:VC:119:LEU:HA	44:VC:122:ILE:HG12	1.64	0.77
44:VE:384:ILE:O	44:VE:387:VAL:HG22	1.84	0.77
45:VF:10:GLY:O	45:VF:14:ASN:ND2	2.17	0.77
45:VF:52:ASN:OD1	45:VF:62:ARG:NH2	2.17	0.77
45:VL:370:ASN:OD1	45:VL:422:TYR:OH	2.02	0.77
45:WD:113:ILE:HD12	45:WD:147:MET:HG3	1.65	0.77
44:WG:73:THR:HB	45:WH:247:ASN:ND2	1.98	0.77
45:WL:372:THR:HA	45:WL:422:TYR:HE2	1.50	0.77
44:WM:3:GLU:HA	44:WM:51:THR:HG23	1.66	0.77
1:6H:368:GLY:C	45:FL:360:GLY:O	2.23	0.77
2:0A:61:TYR:HB2	45:MB:48:ASN:OD1	1.85	0.77
9:1H:300:GLU:HG3	44:HC:370:LYS:HZ2	1.50	0.77
21:1K:191:ILE:HA	45:GD:276:ARG:NH1	2.00	0.77
14:1U:238:SER:HA	45:WF:33:THR:OG1	1.84	0.77
37:5A:156:VAL:HA	44:KC:433:GLU:OE1	1.85	0.77
35:6R:323:LEU:CD1	45:CN:276:ARG:CD	2.61	0.77
42:8L:63:UNK:O	42:8L:67:UNK:N	2.18	0.77
43:8P:32:UNK:O	43:8P:36:UNK:N	2.18	0.77
44:AM:315:CYS:SG	44:AM:379:SER:OG	2.42	0.77
44:BA:146:GLY:N	46:BA:501:GTP:O1B	2.17	0.77
44:BG:14:ILE:HD13	44:BG:75:ILE:HD11	1.67	0.77
44:BI:141:VAL:HG11	44:BI:172:TYR:HD1	1.50	0.77
45:BJ:377:MET:HA	45:BJ:380:ARG:HG2	1.66	0.77
45:CL:63:ALA:O	45:CL:89:ASN:ND2	2.15	0.77
44:DA:67:PHE:HD2	44:DA:92:LEU:HG	1.47	0.77
45:DB:135:ILE:HG13	45:DB:152:ILE:CD1	2.15	0.77
45:DF:405:GLU:O	45:DF:409:THR:HG23	1.85	0.77
45:DL:241:ARG:HG3	45:DL:242:PHE:CD1	2.20	0.77
45:FF:233:MET:O	45:FF:236:VAL:HG12	1.84	0.77
44:FG:245:ASP:OD1	44:FG:246:GLY:N	2.18	0.77
45:FH:309:ARG:NH2	45:FH:342:VAL:HA	2.00	0.77
44:FI:147:SER:O	44:FI:151:SER:N	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:271:SER:HA	44:FI:302:MET:HG3	1.65	0.77
44:FM:148:GLY:O	44:FM:152:LEU:N	2.18	0.77
44:FM:216:ASN:HB3	44:FM:275:ILE:O	1.84	0.77
45:GL:32:PRO:HG3	45:GL:81:PHE:HE1	1.50	0.77
45:GL:309:ARG:NH2	45:GL:426:GLN:O	2.17	0.77
44:GM:66:VAL:HG22	44:GM:68:LEU:HD11	1.66	0.77
45:GN:8:GLN:HB3	45:GN:13:GLY:HA3	1.65	0.77
44:HC:298:PRO:HA	44:HC:301:MET:HE1	1.65	0.77
44:HI:209:ILE:HD11	44:HI:302:MET:CE	2.14	0.77
44:HK:286:LEU:HD12	44:HK:291:ILE:HG22	1.67	0.77
44:IA:115:VAL:HG22	44:IA:119:LEU:HD23	1.67	0.77
45:IB:150:LEU:HD23	45:IB:154:LYS:HG3	1.65	0.77
44:IC:226:ASN:ND2	44:IC:367:ASP:OD2	2.15	0.77
44:IE:89:PRO:HD3	45:JF:281:TYR:CD2	2.19	0.77
44:IE:205:ASP:OD1	44:IE:303:ALA:HA	1.83	0.77
45:IJ:7:ILE:HB	45:IJ:135:ILE:CD1	2.13	0.77
44:IM:80:THR:HA	44:IM:84:ARG:HD2	1.67	0.77
44:JE:175:PRO:HG2	44:JE:304:LYS:HG2	1.66	0.77
44:KA:404:PHE:CD2	45:KB:259:PRO:HA	2.19	0.77
45:KD:372:THR:OG1	45:KD:426:GLN:OE1	2.02	0.77
45:KH:2:ARG:HB2	45:KH:131:GLN:HB2	1.65	0.77
44:KI:215:ARG:NH1	44:KI:215:ARG:O	2.16	0.77
44:KM:306:ASP:OD2	44:KM:308:ARG:HB2	1.84	0.77
44:KM:328:VAL:HG11	44:KM:353:VAL:HG11	1.65	0.77
45:KN:341:PHE:O	45:KN:349:ILE:N	2.18	0.77
45:KN:417:ASP:CA	45:KN:420:SER:HB3	2.15	0.77
44:LE:222:PRO:HD2	45:LF:324:LYS:HD3	1.67	0.77
44:LG:274:PRO:HB2	44:LG:276:ILE:CD1	2.14	0.77
44:LI:336:LYS:NZ	44:LI:348:PRO:O	2.17	0.77
45:LJ:181:GLU:HG2	45:LJ:182:PRO:HD3	1.67	0.77
44:LM:70:LEU:HD13	44:LM:110:ILE:HD11	1.65	0.77
45:LN:100:ASN:OD1	45:LN:103:LYS:HB2	1.84	0.77
44:MC:69:ASP:OD1	44:MC:70:LEU:N	2.16	0.77
44:NC:270:SER:O	44:NC:302:MET:HG2	1.84	0.77
44:NM:267:PHE:O	44:NM:380:ASN:ND2	2.17	0.77
44:OA:408:TYR:HB3	44:OA:413:MET:HG2	1.65	0.77
45:OF:309:ARG:H	45:OF:372:THR:HG1	1.30	0.77
45:OJ:137:HIS:O	45:OJ:168:SER:HA	1.85	0.77
45:ON:131:GLN:HA	45:ON:162:ARG:HH21	1.50	0.77
44:PC:145:THR:HG22	46:PC:501:GTP:PG	2.25	0.77
45:PF:24:ILE:HD11	45:PF:230:SER:HB2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:1:MET:O	45:PH:2:ARG:HG2	1.84	0.77
45:PJ:134:GLN:CA	45:PJ:165:GLU:HB2	2.15	0.77
45:PN:110:ALA:O	45:PN:113:ILE:HG22	1.85	0.77
45:PN:254:ALA:HB1	45:PN:258:ILE:HD13	1.65	0.77
45:PN:370:ASN:OD1	45:PN:422:TYR:OH	2.01	0.77
44:QE:319:TYR:HD2	44:QE:323:VAL:HG11	1.50	0.77
45:QH:113:ILE:HA	45:QH:116:VAL:HG12	1.64	0.77
44:QI:209:ILE:HA	44:QI:212:ILE:HB	1.67	0.77
44:QK:424:ASP:HA	44:QK:427:ALA:HB3	1.67	0.77
44:QM:32:PRO:HB3	44:QM:83:TYR:CE1	2.19	0.77
45:RB:303:ALA:HB1	45:RB:373:ALA:HB1	1.65	0.77
45:RB:318:ARG:HH11	45:RB:358:PRO:HG3	1.50	0.77
44:RC:70:LEU:HB3	44:RC:97:GLU:O	1.84	0.77
45:RH:329:GLN:O	45:RH:333:VAL:HG23	1.85	0.77
44:RI:104:ALA:HA	44:RI:413:MET:HE3	1.67	0.77
45:RL:200:MET:HA	45:RL:266:PHE:O	1.84	0.77
45:SB:46:ARG:NH2	44:SC:76:ASP:OD2	2.17	0.77
45:SH:51:TYR:HE1	45:SH:61:PRO:HG3	1.49	0.77
45:SL:252:LYS:HA	44:SM:100:ALA:HB1	1.65	0.77
45:SN:215:LEU:HD21	45:SN:273:LEU:HB3	1.66	0.77
45:TD:286:VAL:HA	45:TD:289:LEU:HD12	1.67	0.77
44:TE:83:TYR:HB3	44:TE:86:LEU:HB3	1.66	0.77
45:TF:68:LEU:HG	45:TF:96:GLY:HA2	1.67	0.77
44:TM:135:PHE:HB2	44:TM:166:LYS:HG2	1.66	0.77
45:UB:315:ALA:HB3	45:UB:351:SER:HA	1.65	0.77
45:UB:345:ILE:HA	44:UC:398:MET:CE	2.14	0.77
44:UE:76:ASP:OD1	44:UE:79:ARG:NH2	2.18	0.77
45:UF:6:HIS:ND1	45:UF:134:GLN:HG3	1.99	0.77
45:UF:378:PHE:O	45:UF:381:VAL:HG12	1.84	0.77
45:UJ:286:VAL:HG12	45:UJ:329:GLN:HE22	1.49	0.77
45:VD:8:GLN:NE2	45:VD:136:THR:OG1	2.15	0.77
44:VE:56:THR:HG23	44:VE:58:ALA:H	1.50	0.77
44:VE:90:GLU:HG3	44:VE:121:ARG:HH22	1.48	0.77
44:WA:236:SER:OG	44:WA:320:ARG:NH1	2.15	0.77
44:WG:133:GLN:O	44:WG:164:LYS:HE3	1.84	0.77
44:WG:352:LYS:HA	45:WJ:177:ASP:O	1.83	0.77
45:WN:312:THR:OG1	45:WN:348:ASN:O	2.00	0.77
3:OB:79:PHE:HB3	45:JH:40:SER:HB2	1.66	0.77
17:1B:238:TYR:HA	44:JC:84:ARG:NH1	1.92	0.77
16:2X:3:ARG:H	45:ML:75:SER:CB	1.97	0.77
28:3C:72:GLN:NE2	45:LB:41:ASP:OD1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6G:201:MET:CE	45:VF:336:LYS:HG3	2.15	0.77
35:6R:245:LEU:HD23	44:BM:58:ALA:HB2	1.67	0.77
42:8L:302:UNK:O	42:8L:306:UNK:N	2.18	0.77
44:AC:407:TRP:CZ3	45:AD:255:VAL:HA	2.19	0.77
44:AG:215:ARG:HH21	44:AG:299:ALA:HB1	1.48	0.77
44:BE:384:ILE:O	44:BE:387:VAL:HG22	1.85	0.77
44:BG:294:SER:HA	44:BG:297:GLU:HG3	1.67	0.77
44:CA:48:ALA:HA	44:CA:243:ARG:HB2	1.67	0.77
44:CC:320:ARG:NE	44:CC:360:PRO:HG3	1.99	0.77
44:CG:20:CYS:HA	44:CG:232:ALA:HB1	1.65	0.77
44:CG:326:LYS:HE2	45:CH:212:PHE:HZ	1.48	0.77
45:CJ:70:PRO:O	45:CJ:74:ASP:N	2.16	0.77
45:CJ:105:HIS:CG	45:CJ:150:LEU:HD21	2.19	0.77
45:CL:210:ILE:HG23	45:CL:214:THR:HG21	1.65	0.77
44:DE:200:VAL:HG21	44:DE:256:GLN:HB3	1.67	0.77
44:DG:258:ASN:HD21	45:DH:178:THR:HG23	1.50	0.77
44:DI:98:ASP:OD1	44:DI:99:ALA:N	2.18	0.77
45:DJ:167:PHE:HE2	45:DJ:233:MET:HG2	1.50	0.77
45:DJ:289:LEU:HD11	45:DJ:363:MET:HE2	1.67	0.77
45:DL:313:ALA:N	45:DL:348:ASN:O	2.17	0.77
45:DL:313:ALA:O	45:DL:350:LYS:N	2.18	0.77
44:DM:90:GLU:O	44:DM:121:ARG:NH2	2.17	0.77
44:EC:68:LEU:HA	44:EC:93:ILE:HD11	1.67	0.77
44:EC:171:ILE:HD13	46:EC:501:GTP:N2	2.00	0.77
44:EI:141:VAL:HG12	44:EI:171:ILE:O	1.85	0.77
45:FB:309:ARG:HD3	45:FB:342:VAL:HA	1.64	0.77
44:GC:89:PRO:HB2	44:HC:280:LYS:HZ2	1.49	0.77
44:GM:414:GLU:HB2	44:GM:417:GLU:OE2	1.85	0.77
45:GN:183:TYR:HE2	45:GN:394:PHE:HB3	1.48	0.77
45:HB:91:VAL:HG21	45:HB:116:VAL:CG1	2.15	0.77
44:HI:223:THR:HG21	45:HJ:320:ARG:HH22	1.47	0.77
44:HI:271:SER:OG	44:HI:301:MET:SD	2.43	0.77
44:HK:60:LYS:NZ	44:HK:85:GLN:O	2.17	0.77
44:HK:297:GLU:OE2	44:HK:300:ASN:ND2	2.17	0.77
45:ID:52:ASN:OD1	45:ID:62:ARG:NH2	2.18	0.77
44:II:189:LEU:HD11	44:II:418:PHE:HE1	1.49	0.77
44:IK:311:LYS:HD2	44:IK:342:GLN:HG3	1.64	0.77
44:KA:27:GLU:OE2	44:KA:243:ARG:NH2	2.18	0.77
45:KB:50:TYR:HA	45:KB:62:ARG:HH21	1.49	0.77
45:KD:181:GLU:HG3	45:KD:182:PRO:HD3	1.67	0.77
44:KE:174:SER:HB3	44:KE:177:VAL:O	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:265:ILE:HG23	44:KE:432:TYR:HE1	1.49	0.77
44:KG:167:LEU:HD11	44:KG:252:ILE:HG23	1.65	0.77
44:KM:66:VAL:HG21	44:KM:122:ILE:HD11	1.67	0.77
44:KM:109:THR:HG23	44:KM:110:ILE:HG23	1.65	0.77
45:KN:166:THR:CG2	45:KN:199:CYS:HA	2.15	0.77
44:LA:413:MET:CG	44:LA:417:GLU:HG3	2.15	0.77
44:LC:279:GLU:OE1	44:LC:279:GLU:N	2.18	0.77
44:LG:319:TYR:HE2	44:LG:328:VAL:HG23	1.48	0.77
44:LI:181:VAL:H	45:LJ:256:ASN:HD21	1.33	0.77
44:LK:222:PRO:HG2	45:LL:324:LYS:HE2	1.65	0.77
45:MF:204:ASN:OD1	48:MF:502:GDP:O2'	2.02	0.77
45:ND:385:PHE:HE2	45:ND:412:GLU:HB2	1.47	0.77
44:NG:174:SER:HB2	44:NG:177:VAL:O	1.84	0.77
44:NI:319:TYR:HE1	44:NI:328:VAL:HG13	1.50	0.77
44:NK:188:ILE:HG13	44:NK:395:PHE:CG	2.19	0.77
44:NK:288:VAL:CA	44:NK:291:ILE:HG12	2.15	0.77
44:OE:18:ASN:O	44:OE:22:GLU:HG3	1.84	0.77
44:OE:90:GLU:OE2	44:OE:121:ARG:NH1	2.18	0.77
45:OH:73:MET:O	45:OH:76:VAL:HG12	1.85	0.77
45:OL:221:THR:HG23	45:OL:224:ASP:H	1.50	0.77
45:ON:173:PRO:CG	45:ON:380:ARG:HD3	2.14	0.77
44:PI:100:ALA:O	45:PJ:255:VAL:HG21	1.83	0.77
44:PI:295:ALA:HB1	44:PI:377:MET:HE1	1.67	0.77
44:PK:254:GLU:HG2	45:PN:98:GLY:HA2	1.64	0.77
45:QB:135:ILE:HG13	45:QB:152:ILE:HD11	1.67	0.77
45:QB:375:GLN:NE2	45:QB:419:VAL:HG13	1.99	0.77
45:QB:416:ASN:O	45:QB:419:VAL:HB	1.84	0.77
44:QC:19:ALA:HB1	44:QC:229:ARG:HH12	1.48	0.77
44:QE:191:THR:HA	44:QE:194:LEU:CG	2.14	0.77
44:QG:254:GLU:OE1	45:QH:98:GLY:HA2	1.84	0.77
44:QK:384:ILE:O	44:QK:387:VAL:HG22	1.85	0.77
45:RD:32:PRO:HD2	45:RD:33:THR:H	1.47	0.77
45:RD:65:LEU:HD22	45:RD:90:PHE:CZ	2.20	0.77
45:RF:77:ARG:NH2	45:RF:82:GLY:O	2.18	0.77
44:RI:103:PHE:HB2	44:RI:186:ASN:HB2	1.67	0.77
44:RI:135:PHE:O	44:RI:166:LYS:HA	1.84	0.77
45:RJ:177:ASP:N	45:RJ:181:GLU:OE2	2.16	0.77
45:RJ:314:SER:HB2	45:RJ:350:LYS:HB3	1.67	0.77
45:RL:150:LEU:HD23	45:RL:154:LYS:HG3	1.66	0.77
45:RL:258:ILE:HB	44:RM:407:TRP:CH2	2.19	0.77
45:RL:318:ARG:HH11	45:RL:358:PRO:HG3	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:371:SER:OG	45:SB:377:MET:SD	2.41	0.77
44:SC:334:THR:HG22	44:SC:338:LYS:NZ	1.99	0.77
44:SE:316:SER:O	44:SE:378:ILE:N	2.16	0.77
45:SJ:312:THR:HG22	45:SJ:370:ASN:HB3	1.66	0.77
44:SM:188:ILE:HD11	44:SM:391:LEU:HB3	1.66	0.77
44:TC:301:MET:HG3	44:TC:303:ALA:H	1.50	0.77
45:TF:1:MET:O	45:TF:2:ARG:HG2	1.84	0.77
45:TF:289:LEU:HD13	45:TF:365:VAL:HG13	1.63	0.77
44:TK:68:LEU:HD21	44:TK:118:CYS:HB2	1.66	0.77
44:TM:284:GLU:HG3	44:TM:286:LEU:HD22	1.67	0.77
45:TN:201:VAL:HG12	45:TN:301:CYS:SG	2.25	0.77
45:UB:237:THR:O	45:UB:241:ARG:NH2	2.17	0.77
45:UD:52:ASN:ND2	45:UD:62:ARG:HD2	1.99	0.77
45:UD:173:PRO:HD3	45:UD:380:ARG:HD3	1.67	0.77
44:UE:312:TYR:O	44:UE:344:VAL:N	2.16	0.77
44:UI:186:ASN:OD1	44:UI:187:SER:N	2.17	0.77
45:VB:215:LEU:CD2	45:VB:217:LEU:HB3	2.13	0.77
45:VB:237:THR:HG23	45:VB:241:ARG:HE	1.49	0.77
44:VG:118:CYS:O	44:VG:122:ILE:HG12	1.84	0.77
45:VH:164:MET:H	45:VH:197:ASP:HB2	1.49	0.77
44:VI:76:ASP:OD2	45:VJ:46:ARG:NH2	2.17	0.77
44:WC:87:PHE:HB3	44:WC:92:LEU:HD11	1.65	0.77
44:WI:295:ALA:HB1	44:WI:377:MET:CE	2.14	0.77
45:WJ:208:TYR:O	45:WJ:212:PHE:N	2.18	0.77
44:WK:16:VAL:HG23	44:WK:231:ILE:HG21	1.67	0.77
1:6H:259:THR:CG2	44:FE:77:GLU:CG	2.63	0.77
20:1J:117:GLU:OE2	44:IE:221:ARG:NH1	2.14	0.77
26:1R:392:LEU:HD23	45:ED:276:ARG:HH12	1.50	0.77
13:1T:229:THR:OG1	44:MC:431:ASP:OD2	2.02	0.77
11:2Q:17:ILE:HG23	45:WF:125:GLU:HG2	1.65	0.77
26:2R:394:TYR:CD2	45:EH:216:LYS:HD2	2.19	0.77
35:6R:404:LEU:HD11	45:DN:77:ARG:CD	2.02	0.77
35:7R:245:LEU:HD23	44:BA:58:ALA:HB3	1.66	0.77
44:AC:262:TYR:HB3	44:AC:263:PRO:HD2	1.66	0.77
45:AF:398:TYR:HB3	45:AF:403:MET:CE	2.15	0.77
45:AH:232:ALA:HB1	45:AH:268:ILE:HD12	1.67	0.77
45:BD:66:MET:HE3	45:BD:116:VAL:HG21	1.65	0.77
45:BD:178:THR:HG22	45:BD:179:VAL:H	1.50	0.77
45:BH:178:THR:HB	45:BH:181:GLU:CG	2.15	0.77
44:BM:111:GLY:O	44:BM:115:VAL:HG13	1.84	0.77
44:CA:30:ILE:HD13	44:CA:36:MET:CE	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:221:ARG:HG2	44:CA:221:ARG:O	1.85	0.77
44:CC:13:GLY:O	44:CC:17:GLY:N	2.17	0.77
44:CI:60:LYS:HZ1	44:CI:86:LEU:HA	1.48	0.77
44:CK:269:LEU:HB2	44:CK:303:ALA:HB3	1.66	0.77
45:CL:372:THR:HA	45:CL:422:TYR:HE2	1.50	0.77
45:CN:311:LEU:O	45:CN:348:ASN:ND2	2.18	0.77
44:DE:209:ILE:HG12	44:DE:302:MET:HE1	1.66	0.77
45:DH:347:ASN:O	44:DI:181:VAL:HG12	1.84	0.77
44:FC:101:ASN:HA	44:FC:144:GLY:HA3	1.66	0.77
44:FC:174:SER:OG	44:FC:206:ASN:OD1	2.02	0.77
44:FE:402:ARG:HB3	44:FE:405:VAL:HG21	1.67	0.77
45:FF:1:MET:O	45:FF:2:ARG:HG2	1.85	0.77
44:FK:76:ASP:OD1	44:FK:79:ARG:NH2	2.18	0.77
45:FN:206:ALA:O	45:FN:210:ILE:HG13	1.85	0.77
45:FN:293:MET:CG	45:FN:367:PHE:HB2	2.14	0.77
44:GA:301:MET:HG3	44:GA:307:PRO:HG3	1.65	0.77
44:GA:411:GLU:HB2	44:GA:413:MET:HE1	1.67	0.77
44:GE:224:TYR:HE2	45:GF:246:LEU:HD11	1.47	0.77
44:GK:174:SER:HB2	44:GK:177:VAL:O	1.85	0.77
44:GM:20:CYS:O	44:GM:24:PHE:N	2.17	0.77
44:HC:222:PRO:HG3	45:HD:324:LYS:HD3	1.66	0.77
44:HG:69:ASP:OD1	44:HG:70:LEU:N	2.18	0.77
45:HH:228:LEU:HD21	45:HH:300:MET:SD	2.24	0.77
45:HJ:99:ASN:HA	45:HJ:142:GLY:HA3	1.65	0.77
45:IB:304:ASP:OD1	45:IB:306:ARG:NH1	2.17	0.77
44:IG:276:ILE:CD1	44:IG:281:ALA:HA	2.14	0.77
45:IN:269:GLY:HA2	45:IN:300:MET:CE	2.15	0.77
45:JJ:105:HIS:NE2	45:JJ:150:LEU:HB2	2.00	0.77
45:JL:87:PRO:HA	45:JL:90:PHE:HD2	1.49	0.77
44:KA:273:ALA:HB1	44:KA:274:PRO:HA	1.67	0.77
44:KE:66:VAL:HA	44:KE:92:LEU:HD13	0.92	0.77
44:KE:416:GLY:O	44:KE:419:SER:N	2.16	0.77
44:KK:404:PHE:CE1	45:KL:259:PRO:HA	2.19	0.77
44:KM:53:PHE:O	44:KM:64:ARG:NH2	2.18	0.77
45:MB:262:ARG:HG3	45:MB:263:LEU:HD12	1.63	0.77
45:MB:267:MET:HE3	45:MB:305:PRO:HB3	1.64	0.77
44:MM:79:ARG:NH2	44:MM:92:LEU:O	2.18	0.77
45:NB:7:ILE:HG23	45:NB:135:ILE:HD11	1.66	0.77
45:NF:271:ALA:HB1	45:NF:272:PRO:HA	1.65	0.77
45:NF:318:ARG:CD	45:NF:358:PRO:HG3	2.14	0.77
44:NG:126:ALA:O	44:NG:129:CYS:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:174:SER:HB3	44:NG:207:GLU:HG3	1.67	0.77
45:NH:7:ILE:HB	45:NH:135:ILE:HD12	1.66	0.77
45:OF:294:PHE:CE2	45:OF:333:VAL:HG11	2.20	0.77
45:OH:325:GLU:O	45:OH:329:GLN:HB2	1.85	0.77
45:OJ:22:GLU:OE2	45:OJ:81:PHE:HB2	1.85	0.77
45:OJ:143:THR:HG22	48:OJ:501:GDP:O3B	1.83	0.77
45:PF:318:ARG:N	45:PF:364:ALA:O	2.17	0.77
45:QF:309:ARG:NH1	45:QF:342:VAL:HA	1.99	0.77
45:QJ:28:HIS:NE2	45:QJ:241:ARG:HD3	2.00	0.77
44:QK:315:CYS:SG	44:QK:317:MET:HE3	2.24	0.77
44:RE:320:ARG:NE	44:RE:360:PRO:HG3	2.00	0.77
44:RG:296:PHE:CD1	44:RG:341:ILE:HD13	2.19	0.77
45:RN:68:LEU:HD12	45:RN:93:GLY:HA3	1.64	0.77
45:SB:235:GLY:HA2	45:SB:238:CYS:HB3	1.64	0.77
44:SC:332:ILE:O	44:SC:335:ILE:HG22	1.83	0.77
44:SE:294:SER:O	44:SE:297:GLU:HG2	1.85	0.77
45:SF:100:ASN:HD22	45:SF:103:LYS:HB2	1.48	0.77
44:SG:122:ILE:O	44:SG:126:ALA:N	2.15	0.77
44:SG:270:SER:HB3	44:SG:378:ILE:HD13	1.66	0.77
44:SI:68:LEU:HD21	44:SI:118:CYS:HB2	1.66	0.77
45:SL:174:LYS:HD3	45:SL:175:VAL:HG13	1.66	0.77
45:SL:318:ARG:HB2	45:SL:364:ALA:HB3	1.67	0.77
44:SM:31:GLN:HE21	44:SM:35:GLN:H	1.31	0.77
44:TC:47:ASP:O	44:TC:50:ASN:ND2	2.17	0.77
44:TC:141:VAL:CG1	44:TC:172:TYR:HA	2.14	0.77
44:TI:323:VAL:HG13	44:TI:373:ARG:HG2	1.65	0.77
45:TL:257:LEU:HA	45:TL:312:THR:HG21	1.67	0.77
44:UA:248:LEU:HD23	44:UA:353:VAL:HG23	1.65	0.77
45:UD:283:ALA:HB3	45:UD:288:GLU:HG3	1.67	0.77
44:UE:216:ASN:ND2	44:UE:275:ILE:O	2.18	0.77
45:UF:318:ARG:HD3	45:UF:358:PRO:HG3	1.67	0.77
44:UI:115:VAL:HG11	44:UI:152:LEU:HD23	1.66	0.77
45:VJ:420:SER:O	45:VJ:423:GLN:HG3	1.85	0.77
44:WA:324:VAL:HG21	45:WD:219:THR:HG22	1.67	0.77
45:WB:342:VAL:HG13	45:WB:345:ILE:HG22	1.67	0.77
45:WD:248:SER:HA	45:WD:252:LYS:HD2	1.65	0.77
44:WE:222:PRO:HD2	45:WF:324:LYS:HG2	1.67	0.77
45:WL:256:ASN:HD22	45:WL:350:LYS:HD2	1.48	0.77
44:WM:231:ILE:O	44:WM:235:ILE:HG12	1.85	0.77
7:OF:204:PHE:HB2	44:FC:221:ARG:HG2	1.65	0.77
15:IV:117:PRO:HB3	45:LL:392:LYS:HD2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1W:136:LYS:HG3	44:KC:58:ALA:HB2	1.66	0.77
32:2I:31:SER:N	44:GG:211:ASP:OD1	2.11	0.77
25:2P:460:GLU:OE2	45:TJ:362:LYS:HE2	1.85	0.77
14:2U:449:ARG:HH21	44:VI:84:ARG:HE	1.31	0.77
15:2V:70:THR:HA	45:LF:121:ARG:HD3	1.67	0.77
15:2V:122:LYS:HG2	45:LH:390:ARG:CZ	2.14	0.77
22:3L:205:GLU:OE2	44:BA:84:ARG:NH2	2.18	0.77
38:5E:157:ARG:HH22	45:ND:37:HIS:HB2	1.48	0.77
11:5Q:101:ARG:HD2	11:5Q:144:TYR:CE2	2.19	0.77
40:6F:11:THR:O	44:IE:96:LYS:NZ	2.18	0.77
44:AC:20:CYS:HA	44:AC:232:ALA:HB1	1.66	0.77
44:AE:11:GLN:NE2	45:AF:247:ASN:OD1	2.17	0.77
44:AM:425:LEU:HB2	44:AM:426:ALA:HA	1.67	0.77
44:BG:402:ARG:O	44:BG:405:VAL:HG22	1.85	0.77
45:BH:22:GLU:HA	45:BH:81:PHE:HD2	1.48	0.77
44:CA:247:ALA:HB3	44:CA:355:ILE:HD12	1.67	0.77
45:CB:3:GLU:O	45:CB:131:GLN:N	2.18	0.77
44:CK:170:THR:O	44:CK:171:ILE:HD13	1.85	0.77
45:DB:7:ILE:O	45:DB:135:ILE:HA	1.84	0.77
45:DF:107:THR:HG21	45:DF:401:GLU:HB3	1.66	0.77
45:DJ:337:ASN:HB3	45:DJ:340:TYR:HB2	1.67	0.77
45:DL:255:VAL:HA	44:DM:407:TRP:HZ3	1.50	0.77
45:DL:322:SER:OG	44:DM:223:THR:HB	1.84	0.77
45:DN:260:PHE:CB	45:DN:263:LEU:HD13	2.14	0.77
44:EA:14:ILE:HD11	44:EA:69:ASP:HB2	1.67	0.77
44:EA:60:LYS:NZ	44:EA:85:GLN:O	2.17	0.77
44:EA:171:ILE:HG23	44:EA:204:LEU:O	1.84	0.77
44:EA:362:VAL:HG11	44:EA:370:LYS:HB3	1.66	0.77
45:EF:154:LYS:HA	45:EF:154:LYS:HE2	1.65	0.77
45:EH:68:LEU:HD21	45:EH:147:MET:SD	2.25	0.77
45:EL:320:ARG:O	45:EL:321:MET:HG2	1.83	0.77
44:FE:423:GLU:O	44:FE:427:ALA:N	2.14	0.77
44:FI:396:ASP:OD1	44:FI:397:LEU:N	2.18	0.77
44:GA:219:ILE:HG22	44:GA:222:PRO:HD3	1.66	0.77
44:GC:272:TYR:HD2	44:GC:275:ILE:HD11	1.48	0.77
44:GG:270:SER:HB3	44:GG:378:ILE:HD13	1.67	0.77
44:GI:3:GLU:HA	44:GI:51:THR:HG23	1.66	0.77
44:GI:156:ARG:O	44:GI:160:ASP:N	2.17	0.77
45:GJ:105:HIS:CD2	45:GJ:150:LEU:HB2	2.20	0.77
44:GK:317:MET:HB3	44:GK:377:MET:HB3	1.66	0.77
45:GN:52:ASN:OD1	45:GN:62:ARG:NH2	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:210:TYR:HE1	44:HA:227:LEU:HD11	1.47	0.77
45:HD:310:TYR:CD1	45:HD:371:SER:HB2	2.20	0.77
45:HH:301:CYS:HB3	45:HH:377:MET:CE	2.15	0.77
44:IC:70:LEU:HD11	44:IC:149:LEU:HD21	1.65	0.77
44:IC:88:HIS:CE1	44:IC:90:GLU:HG2	2.20	0.77
44:IG:422:ARG:NH1	44:IG:426:ALA:HB2	1.99	0.77
45:IL:299:MET:HE3	45:IL:305:PRO:HG3	1.66	0.77
45:JD:45:GLU:OE1	45:JD:46:ARG:HG2	1.85	0.77
44:JG:269:LEU:HD23	44:JG:384:ILE:HD13	1.67	0.77
45:JH:60:VAL:HG21	45:JH:86:ARG:NE	2.01	0.77
45:KB:286:VAL:HG11	45:KB:325:GLU:HB2	1.66	0.77
44:KC:439:THR:OG1	45:KF:390:ARG:NH1	2.17	0.77
45:KF:263:LEU:CD2	45:KF:370:ASN:HD21	1.97	0.77
44:KI:399:TYR:OH	44:KI:415:GLU:OE2	2.03	0.77
44:KK:195:LEU:HD11	44:KK:265:ILE:CG2	2.15	0.77
45:KL:309:ARG:NH1	45:KL:342:VAL:HA	1.99	0.77
45:LJ:418:LEU:HA	45:LJ:421:GLU:HG2	1.65	0.77
44:MM:145:THR:HG23	46:MM:501:GTP:O2G	1.85	0.77
45:MN:237:THR:HB	45:MN:250:LEU:HD21	1.64	0.77
44:NA:6:SER:O	44:NA:7:ILE:HD13	1.85	0.77
44:OC:176:GLN:HB3	45:OD:331:LEU:HD11	1.66	0.77
44:OE:178:SER:OG	44:OE:183:GLU:OE2	2.03	0.77
44:OM:107:HIS:CE1	44:OM:152:LEU:HD13	2.20	0.77
44:PA:89:PRO:HB3	44:QA:280:LYS:NZ	2.00	0.77
44:PE:254:GLU:CG	45:PH:98:GLY:HA2	2.14	0.77
44:QE:257:THR:HA	45:QF:397:TRP:CZ3	2.19	0.77
44:QK:76:ASP:OD1	44:QK:79:ARG:NH2	2.18	0.77
44:QK:311:LYS:N	44:QK:382:THR:OG1	2.17	0.77
44:RE:273:ALA:O	44:RE:375:VAL:N	2.14	0.77
44:RE:326:LYS:HD3	45:RF:212:PHE:HZ	1.49	0.77
44:RK:342:GLN:OE1	44:RK:342:GLN:N	2.17	0.77
44:SE:156:ARG:HA	44:SE:159:VAL:CG1	2.15	0.77
45:SJ:102:ALA:HB2	45:SJ:403:MET:CE	2.14	0.77
45:TD:210:ILE:HD12	45:TD:300:MET:HA	1.66	0.77
45:TD:401:GLU:HB2	45:TD:403:MET:HE2	1.66	0.77
45:TF:19:LYS:HD3	45:TF:226:ASN:HB3	1.66	0.77
45:TH:3:GLU:N	45:TH:129:CYS:O	2.18	0.77
45:TH:313:ALA:N	45:TH:348:ASN:O	2.17	0.77
44:TM:191:THR:O	44:TM:195:LEU:N	2.17	0.77
45:TN:73:MET:CE	45:TN:92:PHE:HB3	2.15	0.77
44:UA:175:PRO:HD2	44:UA:207:GLU:OE1	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:60:VAL:HG21	45:UD:86:ARG:HG2	1.65	0.77
44:UE:223:THR:CG2	44:UE:225:THR:HG22	2.13	0.77
45:UF:203:ASP:OD2	45:UF:302:ALA:N	2.18	0.77
44:UG:251:ASP:HB2	44:UG:254:GLU:HG3	1.67	0.77
45:UJ:207:LEU:HD23	45:UJ:225:LEU:HB3	1.67	0.77
45:UJ:397:TRP:O	45:UJ:400:GLY:N	2.16	0.77
45:UL:342:VAL:HG11	45:UL:345:ILE:HD13	1.65	0.77
44:VC:394:LYS:NZ	45:VD:347:ASN:OD1	2.15	0.77
44:VC:414:GLU:HB2	44:VC:417:GLU:HG2	1.67	0.77
44:VG:254:GLU:HA	44:VG:257:THR:HG22	1.66	0.77
45:VH:202:ILE:HD11	45:VH:268:ILE:HD11	1.66	0.77
44:VI:314:ALA:O	44:VI:380:ASN:N	2.16	0.77
45:WF:206:ALA:O	45:WF:210:ILE:N	2.13	0.77
45:WJ:317:PHE:HB3	45:WJ:321:MET:HE1	1.66	0.77
44:WK:144:GLY:N	46:WK:501:GTP:O3B	2.18	0.77
44:WM:37:PRO:O	44:WM:38:SER:OG	2.02	0.77
29:2F:71:ARG:HH22	45:GF:115:SER:HA	1.49	0.76
2:3A:39:TYR:CE2	44:MM:78:VAL:HA	2.20	0.76
38:5F:133:PRO:CG	38:5F:136:LEU:HD13	2.15	0.76
35:7R:309:LEU:HD11	35:7R:342:ILE:HG23	1.65	0.76
45:AD:174:LYS:HB3	45:AD:205:GLU:OE1	1.84	0.76
44:AG:260:VAL:HG23	45:AJ:397:TRP:CH2	2.19	0.76
45:AL:52:ASN:HD21	45:AL:62:ARG:HD3	1.48	0.76
45:AN:3:GLU:HG3	45:AN:62:ARG:NH2	1.98	0.76
45:BL:139:LEU:CD1	45:BL:168:SER:HB3	2.16	0.76
44:BM:155:GLU:HA	44:BM:197:HIS:CE1	2.21	0.76
44:CA:427:ALA:HA	44:CA:430:LYS:HG2	1.65	0.76
45:CB:4:ILE:HG22	45:CB:132:GLY:H	1.47	0.76
45:CF:97:ALA:CB	45:CF:143:THR:HB	2.14	0.76
44:CG:56:THR:HG23	44:CG:58:ALA:H	1.50	0.76
44:CG:350:GLY:HA2	45:CH:179:VAL:HG12	1.65	0.76
45:CJ:178:THR:HG22	45:CJ:179:VAL:H	1.49	0.76
45:CL:274:THR:HB	45:CL:282:ARG:HH11	1.49	0.76
44:DA:256:GLN:NE2	44:DA:257:THR:HG23	2.00	0.76
45:DB:1:MET:O	45:DB:2:ARG:HG2	1.85	0.76
45:DB:117:LEU:HD13	45:DB:154:LYS:NZ	2.00	0.76
45:DH:271:ALA:CB	45:DH:272:PRO:HD3	2.15	0.76
44:DI:115:VAL:HA	44:DI:118:CYS:HB3	1.65	0.76
44:DI:336:LYS:HD3	44:DI:343:PHE:CE2	2.19	0.76
44:EE:271:SER:OG	44:EE:301:MET:HA	1.85	0.76
45:EJ:5:VAL:HG22	45:EJ:133:PHE:HD1	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:278:ALA:HB2	44:EM:369:ALA:CB	2.15	0.76
45:FD:1:MET:O	45:FD:2:ARG:HG2	1.84	0.76
44:FM:231:ILE:O	44:FM:235:ILE:HG12	1.85	0.76
44:FM:403:ALA:HB2	45:FN:260:PHE:CZ	2.20	0.76
45:FN:106:TYR:CE2	45:FN:403:MET:HB3	2.21	0.76
45:FN:314:SER:N	45:FN:368:VAL:O	2.15	0.76
44:GE:402:ARG:HB2	44:GE:405:VAL:HG21	1.66	0.76
45:GF:174:LYS:N	45:GF:205:GLU:OE2	2.18	0.76
45:HB:173:PRO:HB3	45:HB:380:ARG:NH1	2.00	0.76
45:HH:17:GLY:O	45:HH:20:PHE:N	2.17	0.76
45:HJ:191:GLN:NE2	45:HJ:195:ASN:OD1	2.12	0.76
44:IA:394:LYS:HB3	44:IA:398:MET:HE1	1.67	0.76
44:IE:284:GLU:HG3	44:IE:286:LEU:CD2	2.15	0.76
44:IG:254:GLU:HG2	45:IJ:98:GLY:HA2	1.67	0.76
45:JH:101:TRP:CE3	45:JH:187:LEU:HD13	2.20	0.76
44:JM:112:LYS:O	44:JM:115:VAL:HG12	1.85	0.76
45:KD:239:CYS:SG	45:KD:247:ASN:HA	2.25	0.76
44:KK:346:TRP:CE3	44:KK:348:PRO:HD3	2.19	0.76
44:LG:71:GLU:HG3	45:LH:247:ASN:HD21	1.48	0.76
44:LG:394:LYS:HG2	45:LH:346:PRO:HG3	1.66	0.76
44:LI:407:TRP:CZ3	45:LJ:255:VAL:HA	2.18	0.76
44:LK:37:PRO:CD	44:LK:40:LYS:HE2	2.15	0.76
44:MA:176:GLN:NE2	44:MA:207:GLU:OE2	2.18	0.76
45:NF:242:PHE:CG	45:NF:356:ILE:HD13	2.20	0.76
44:NI:66:VAL:HG21	44:NI:122:ILE:CD1	2.15	0.76
45:NL:304:ASP:HB3	45:NL:307:HIS:CE1	2.20	0.76
44:NM:316:SER:HA	44:NM:352:LYS:O	1.85	0.76
45:NN:213:ARG:HG2	45:NN:297:LYS:CE	2.15	0.76
45:PB:27:GLU:OE2	45:PB:241:ARG:NH2	2.15	0.76
45:PB:166:THR:OG1	45:PB:198:GLU:O	2.03	0.76
44:PE:7:ILE:HB	44:PE:137:VAL:HG23	1.65	0.76
44:PE:221:ARG:NH1	45:PF:325:GLU:OE1	2.18	0.76
44:PG:212:ILE:HD11	44:PG:300:ASN:HA	1.67	0.76
45:PN:6:HIS:HB2	45:PN:134:GLN:HE21	1.50	0.76
45:PN:403:MET:HE3	45:PN:404:ASP:N	2.01	0.76
45:QD:68:LEU:HD23	45:QD:97:ALA:HB2	1.66	0.76
45:QD:86:ARG:HD2	45:RD:281:TYR:HB2	1.65	0.76
44:QE:434:GLU:O	44:QE:437:ILE:HG12	1.85	0.76
45:QH:199:CYS:O	45:QH:266:PHE:N	2.13	0.76
45:QL:313:ALA:N	45:QL:348:ASN:O	2.18	0.76
44:QM:20:CYS:O	44:QM:24:PHE:N	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RN:287:PRO:HA	45:RN:290:THR:HG22	1.66	0.76
45:SB:18:ALA:O	45:SB:22:GLU:N	2.14	0.76
44:SC:70:LEU:HD13	44:SC:110:ILE:HD11	1.66	0.76
45:SF:247:ASN:ND2	44:SG:74:VAL:HG13	2.00	0.76
44:SI:257:THR:HA	45:SJ:397:TRP:HZ2	1.47	0.76
44:TA:169:PHE:HB3	44:TA:204:LEU:HD11	1.67	0.76
45:TB:325:GLU:HA	45:TB:328:GLU:HG2	1.68	0.76
45:TD:178:THR:HB	45:TD:181:GLU:CG	2.15	0.76
44:TI:273:ALA:HB1	44:TI:274:PRO:HA	1.65	0.76
44:TK:141:VAL:HG21	44:TK:172:TYR:HD1	1.50	0.76
44:TM:328:VAL:O	44:TM:332:ILE:HG12	1.86	0.76
45:UB:319:GLY:N	45:UB:354:CYS:O	2.18	0.76
44:UC:278:ALA:HA	44:UC:281:ALA:HB3	1.67	0.76
45:UD:282:ARG:NH1	45:UD:292:GLN:OE1	2.18	0.76
45:UH:247:ASN:H	44:UI:11:GLN:HE22	1.33	0.76
45:UH:322:SER:HB3	45:UH:323:THR:CA	2.15	0.76
44:UI:423:GLU:O	44:UI:427:ALA:N	2.18	0.76
45:VB:73:MET:O	45:VB:76:VAL:HG12	1.85	0.76
44:VC:70:LEU:HD11	44:VC:149:LEU:HD21	1.67	0.76
44:VC:122:ILE:HG22	44:VC:126:ALA:HB2	1.67	0.76
45:VF:286:VAL:HG11	45:VF:325:GLU:HG2	1.67	0.76
45:VH:51:TYR:HE1	45:VH:61:PRO:HG3	1.48	0.76
45:VJ:221:THR:HG23	45:VJ:224:ASP:H	1.50	0.76
45:WJ:141:GLY:HA3	48:WJ:502:GDP:O3A	1.85	0.76
44:WK:384:ILE:O	44:WK:387:VAL:HG22	1.84	0.76
44:WM:166:LYS:O	44:WM:199:ASP:HB3	1.84	0.76
3:OB:200:PHE:HB3	44:KI:372:MET:SD	2.25	0.76
7:0F:36:LYS:CD	44:DE:72:PRO:HB3	2.14	0.76
2:2A:61:TYR:OH	45:MJ:53:GLU:OE1	2.02	0.76
26:2R:80:CYS:SG	44:MG:32:PRO:HD2	2.25	0.76
27:2W:208:LEU:CD2	44:LM:372:MET:HG3	2.14	0.76
22:3L:45:ARG:HH22	45:BB:284:LEU:HD12	1.48	0.76
45:AF:58:ARG:HH12	45:BF:280:GLN:CD	1.89	0.76
45:AJ:256:ASN:O	45:AJ:257:LEU:HD23	1.85	0.76
44:BA:205:ASP:OD1	44:BA:303:ALA:HA	1.86	0.76
44:BC:271:SER:HB2	44:BC:377:MET:CG	2.15	0.76
44:BG:340:THR:HG23	44:BG:341:ILE:HD12	1.65	0.76
44:BK:340:THR:HG23	44:BK:341:ILE:CD1	2.15	0.76
45:BL:130:LEU:HG	45:BL:162:ARG:HD2	1.67	0.76
44:BM:241:SER:OG	44:BM:249:ASN:OD1	2.04	0.76
45:CB:100:ASN:HD22	45:CB:103:LYS:HB2	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:182:PRO:O	45:CD:186:THR:HG23	1.85	0.76
45:DB:101:TRP:CE3	45:DB:187:LEU:HD13	2.21	0.76
45:DD:97:ALA:CB	45:DD:143:THR:HB	2.15	0.76
45:DD:263:LEU:HG	45:DD:422:TYR:CD1	2.20	0.76
45:DD:271:ALA:HB2	45:DD:298:ASN:ND2	2.00	0.76
45:DF:286:VAL:HG21	44:DG:221:ARG:NH2	2.01	0.76
44:DK:210:TYR:HE1	44:DK:227:LEU:HD11	1.46	0.76
45:EB:42:LEU:HA	45:EB:45:GLU:HG3	1.65	0.76
45:ED:102:ALA:HB1	45:ED:403:MET:HE1	1.66	0.76
45:EH:2:ARG:NH2	44:EI:73:THR:OG1	2.18	0.76
45:EH:286:VAL:HG12	45:EH:287:PRO:HD3	1.67	0.76
44:FA:13:GLY:HA2	44:FA:16:VAL:HG12	1.67	0.76
45:FB:421:GLU:HA	45:FB:424:GLN:HB2	1.66	0.76
45:FH:7:ILE:HG12	45:FH:64:ILE:HB	1.65	0.76
45:FL:218:THR:HG23	45:FL:219:THR:HG23	1.66	0.76
44:FM:106:GLY:O	44:FM:149:LEU:HD22	1.84	0.76
44:GK:98:ASP:O	44:GK:105:ARG:NH1	2.18	0.76
44:GK:394:LYS:HG2	45:GL:346:PRO:HG3	1.68	0.76
44:GM:294:SER:O	44:GM:300:ASN:ND2	2.18	0.76
45:GN:15:GLN:HB3	45:GN:19:LYS:HZ1	1.49	0.76
44:HA:213:CYS:O	44:HA:217:LEU:HB2	1.84	0.76
44:HC:407:TRP:HH2	45:HD:254:ALA:HB1	1.50	0.76
44:HE:55:GLU:HG3	44:HE:57:GLY:H	1.50	0.76
44:HE:326:LYS:CG	45:HH:220:PRO:HG2	2.14	0.76
45:HF:317:PHE:HA	45:HF:365:VAL:HG22	1.67	0.76
44:HG:326:LYS:HB3	45:HJ:220:PRO:HG2	1.66	0.76
44:IG:284:GLU:HG3	44:IG:286:LEU:HD22	1.65	0.76
44:IM:421:ALA:O	44:IM:425:LEU:N	2.14	0.76
45:JF:52:ASN:OD1	45:JF:62:ARG:NH2	2.18	0.76
45:JL:284:LEU:HD13	45:JL:362:LYS:HB3	1.65	0.76
45:KD:325:GLU:HA	45:KD:328:GLU:HG2	1.67	0.76
45:KF:174:LYS:HE3	45:KF:174:LYS:HA	1.66	0.76
44:KM:404:PHE:HE1	45:KN:259:PRO:HA	1.48	0.76
45:MJ:166:THR:OG1	45:MJ:198:GLU:O	2.03	0.76
44:NA:325:PRO:HA	44:NA:328:VAL:HG12	1.65	0.76
44:NA:387:VAL:O	44:NA:391:LEU:N	2.13	0.76
45:ND:135:ILE:O	45:ND:166:THR:HA	1.84	0.76
44:NG:287:SER:N	44:NG:290:GLU:OE2	2.18	0.76
45:NJ:215:LEU:HD21	45:NJ:273:LEU:HD13	1.65	0.76
44:NM:226:ASN:HA	44:NM:367:ASP:OD2	1.85	0.76
45:OD:154:LYS:O	45:OD:158:GLU:HG3	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:188:ILE:HD11	44:OE:391:LEU:HB3	1.66	0.76
45:OF:286:VAL:HG23	45:OF:287:PRO:HD3	1.67	0.76
45:OJ:1:MET:SD	45:OJ:2:ARG:NE	2.59	0.76
45:OJ:73:MET:HE3	45:OJ:92:PHE:HB3	1.67	0.76
44:OK:141:VAL:HG22	44:OK:187:SER:HA	1.67	0.76
44:OM:137:VAL:HG11	44:OM:154:LEU:HD21	1.67	0.76
44:PA:9:VAL:HG21	44:PA:149:LEU:CB	2.15	0.76
44:PA:11:GLN:HG3	44:PA:74:VAL:HG11	1.66	0.76
45:PD:71:GLY:O	45:PD:75:SER:N	2.17	0.76
45:PH:16:ILE:HD13	45:PH:226:ASN:OD1	1.85	0.76
44:QA:292:THR:HG21	44:QA:331:SER:HB3	1.66	0.76
45:QD:25:SER:OG	45:QD:51:TYR:OH	2.03	0.76
45:QJ:45:GLU:O	45:QJ:46:ARG:HD3	1.85	0.76
45:QJ:86:ARG:HG3	45:QJ:88:ASP:H	1.48	0.76
44:QK:288:VAL:HG21	44:QK:327:ASP:HB3	1.67	0.76
45:RB:318:ARG:HD3	45:RB:358:PRO:CD	2.15	0.76
44:RC:72:PRO:O	44:RC:76:ASP:N	2.18	0.76
44:RE:54:SER:HB3	44:RE:64:ARG:CZ	2.15	0.76
45:RF:146:GLY:O	45:RF:149:THR:HG22	1.86	0.76
45:RJ:324:LYS:HE3	44:RK:210:TYR:CE2	2.19	0.76
45:RJ:395:LEU:HG	45:RJ:399:THR:HG23	1.66	0.76
44:RM:314:ALA:O	44:RM:380:ASN:N	2.18	0.76
45:RN:67:ASP:OD1	45:RN:68:LEU:N	2.19	0.76
44:SE:209:ILE:HG12	44:SE:302:MET:CE	2.15	0.76
44:TG:384:ILE:O	44:TG:387:VAL:HG22	1.84	0.76
45:TL:288:GLU:O	45:TL:291:GLN:HG3	1.83	0.76
45:TL:321:MET:HB2	44:TM:221:ARG:HH21	1.47	0.76
44:TM:320:ARG:HD3	44:TM:360:PRO:HG3	1.66	0.76
44:UC:241:SER:HB2	44:UC:250:VAL:H	1.51	0.76
44:UC:242:LEU:HD11	44:UC:251:ASP:HA	1.66	0.76
45:UD:102:ALA:HB1	45:UD:401:GLU:HB2	1.66	0.76
44:UE:15:GLN:HA	44:UE:18:ASN:ND2	2.00	0.76
45:UF:171:PRO:HG2	45:UF:181:GLU:HG3	1.68	0.76
44:UI:332:ILE:HG22	44:UI:336:LYS:HZ2	1.50	0.76
45:UL:178:THR:HB	45:UL:181:GLU:HG2	1.67	0.76
44:UM:151:SER:O	44:UM:155:GLU:N	2.14	0.76
44:VA:7:ILE:HA	44:VA:66:VAL:CG1	2.14	0.76
44:VC:254:GLU:CG	45:VF:98:GLY:HA2	2.14	0.76
44:VC:269:LEU:O	44:VC:379:SER:N	2.13	0.76
45:VD:242:PHE:HB3	45:VD:356:ILE:CD1	2.12	0.76
45:VD:318:ARG:HB2	45:VD:364:ALA:HB3	1.64	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:384:ILE:O	44:VG:387:VAL:HG22	1.85	0.76
45:VJ:61:PRO:HG2	45:VJ:84:LEU:HB3	1.67	0.76
45:VL:144:GLY:O	45:VL:148:GLY:N	2.17	0.76
45:VL:274:THR:CG2	45:VL:279:GLN:HG2	2.15	0.76
45:WF:309:ARG:NH2	45:WF:426:GLN:O	2.19	0.76
44:WM:195:LEU:HD11	44:WM:428:LEU:HD13	1.66	0.76
44:WM:285:GLN:HE21	44:WM:287:SER:HB2	1.50	0.76
45:WN:294:PHE:CD2	45:WN:333:VAL:HG11	2.20	0.76
1:6H:268:MET:HE2	44:FE:26:LEU:HD11	1.67	0.76
12:1S:43:TYR:CE1	44:WC:124:LYS:HG2	2.20	0.76
35:4R:30:GLN:HE21	45:LF:74:ASP:HA	1.48	0.76
37:5D:26:LYS:HE2	45:KN:395:LEU:HA	1.65	0.76
39:5I:102:ASN:O	39:5I:105:PRO:HD2	1.85	0.76
35:5R:566:PHE:O	35:5R:570:VAL:HG22	1.85	0.76
35:6R:26:HIS:ND1	44:LK:244:PHE:CE1	2.52	0.76
35:6R:301:PRO:HD2	45:CN:77:ARG:HH22	1.49	0.76
35:7R:277:ASN:ND2	35:7R:286:GLU:OE2	2.18	0.76
35:7R:285:THR:N	35:7R:307:LYS:O	2.15	0.76
44:AK:2:ARG:O	44:AK:51:THR:HA	1.84	0.76
44:BI:257:THR:HA	45:BL:397:TRP:CZ3	2.20	0.76
45:BL:156:ARG:HD3	45:BL:195:ASN:HB3	1.68	0.76
45:CH:16:ILE:CG2	45:CH:229:VAL:HG11	2.15	0.76
45:CH:62:ARG:NH2	45:CH:127:CYS:HB3	1.99	0.76
45:CL:133:PHE:HB2	45:CL:164:MET:HE2	1.67	0.76
44:CM:11:GLN:HE21	46:CM:501:GTP:PA	2.08	0.76
44:CM:104:ALA:HB2	44:CM:413:MET:CE	2.15	0.76
44:DA:311:LYS:HA	44:DA:342:GLN:HE22	1.51	0.76
45:DB:256:ASN:HD22	45:DB:350:LYS:HD2	1.50	0.76
44:DC:35:GLN:HE22	44:DC:59:GLY:HA2	1.49	0.76
44:DC:268:MET:HB2	44:DC:379:SER:O	1.85	0.76
45:EB:66:MET:HB3	45:EB:116:VAL:HG21	1.65	0.76
45:EF:49:VAL:HG11	45:EF:241:ARG:CG	2.14	0.76
44:EI:137:VAL:HG12	44:EI:167:LEU:O	1.85	0.76
44:EM:275:ILE:HA	44:EM:368:LEU:HD11	1.67	0.76
44:FA:103:PHE:HB2	44:FA:186:ASN:HB2	1.65	0.76
44:FC:24:PHE:HZ	44:FC:235:ILE:HG22	1.51	0.76
45:FL:86:ARG:NH1	45:GL:281:TYR:HB3	2.00	0.76
45:FN:156:ARG:NH1	45:FN:162:ARG:O	2.18	0.76
44:GC:54:SER:HB3	44:GC:64:ARG:NE	1.99	0.76
44:GG:21:TRP:CZ2	44:GG:65:ALA:HB2	2.21	0.76
45:GL:207:LEU:HD23	45:GL:300:MET:CE	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:270:SER:HA	44:GM:378:ILE:HA	1.67	0.76
45:GN:74:ASP:OD1	45:GN:77:ARG:NH2	2.18	0.76
44:HA:398:MET:HE2	45:HB:345:ILE:HG13	1.68	0.76
44:HI:275:ILE:HD12	44:HI:368:LEU:HD11	1.67	0.76
44:IA:188:ILE:HG23	44:IA:425:LEU:CD1	2.15	0.76
44:IG:14:ILE:HD11	44:IG:69:ASP:HB2	1.67	0.76
45:IL:36:TYR:CE1	45:IL:44:LEU:HD21	2.20	0.76
45:IL:88:ASP:HB2	45:IL:151:LEU:HD22	1.66	0.76
45:IL:113:ILE:CD1	45:IL:150:LEU:HD22	2.15	0.76
45:IL:137:HIS:O	45:IL:168:SER:HA	1.85	0.76
44:IM:63:PRO:HG2	44:IM:86:LEU:HG	1.66	0.76
44:JE:46:ASP:OD1	44:JE:47:ASP:N	2.18	0.76
44:JE:181:VAL:HG12	45:JF:256:ASN:OD1	1.85	0.76
44:JI:390:ARG:HG3	44:JI:391:LEU:HD22	1.66	0.76
45:JL:178:THR:HG22	45:JL:180:VAL:H	1.50	0.76
44:JM:404:PHE:HA	44:JM:407:TRP:CZ3	2.20	0.76
45:KF:293:MET:HE2	45:KF:367:PHE:HD1	1.49	0.76
45:KH:139:LEU:HD22	45:KH:170:VAL:HG12	1.67	0.76
44:KK:126:ALA:HB1	44:KK:132:LEU:HD21	1.67	0.76
44:KM:88:HIS:CE1	44:KM:90:GLU:HG2	2.20	0.76
45:LF:372:THR:HA	45:LF:422:TYR:HE2	1.48	0.76
44:MC:241:SER:HA	44:MC:356:ASN:HD21	1.50	0.76
45:MF:230:SER:HA	45:MF:233:MET:CE	2.14	0.76
45:MN:17:GLY:HA2	45:MN:20:PHE:HE1	1.50	0.76
45:NJ:284:LEU:O	45:NJ:362:LYS:NZ	2.16	0.76
44:OC:171:ILE:HG12	44:OC:204:LEU:HB2	1.66	0.76
44:OG:259:LEU:HD21	44:OG:316:SER:CB	2.16	0.76
45:OJ:316:LEU:HD13	45:OJ:352:SER:HB2	1.66	0.76
45:OL:193:VAL:HA	45:OL:264:HIS:HE1	1.50	0.76
44:PE:7:ILE:HB	44:PE:137:VAL:HA	1.66	0.76
44:PE:181:VAL:HG12	45:PF:347:ASN:O	1.85	0.76
45:QB:209:ASP:OD1	45:QB:210:ILE:N	2.18	0.76
44:QC:316:SER:CB	44:QC:352:LYS:HB3	2.16	0.76
44:QE:76:ASP:OD1	44:QE:79:ARG:NH2	2.19	0.76
44:QK:195:LEU:HD11	44:QK:264:ARG:HH22	1.49	0.76
45:RH:346:PRO:HD2	44:RI:398:MET:CE	2.15	0.76
45:RN:65:LEU:CD2	45:RN:76:VAL:HG21	2.16	0.76
45:RN:113:ILE:HA	45:RN:116:VAL:CG1	2.15	0.76
45:SB:7:ILE:HB	45:SB:135:ILE:CD1	2.16	0.76
44:SC:272:TYR:HA	44:SC:376:CYS:HA	1.67	0.76
45:SD:304:ASP:OD1	45:SD:306:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:268:MET:HB3	44:SG:380:ASN:OD1	1.83	0.76
45:SJ:316:LEU:O	45:SJ:365:VAL:HA	1.86	0.76
44:SK:70:LEU:HD23	44:SK:95:GLY:HA3	1.68	0.76
44:SM:242:LEU:HD11	44:SM:252:ILE:HG13	1.66	0.76
44:TA:64:ARG:NH1	44:TA:129:CYS:SG	2.58	0.76
45:TD:178:THR:N	45:TD:181:GLU:OE2	2.18	0.76
44:UA:384:ILE:O	44:UA:387:VAL:HG22	1.85	0.76
45:UB:318:ARG:HA	45:UB:354:CYS:HB3	1.64	0.76
45:UD:87:PRO:HA	45:UD:90:PHE:CD2	2.21	0.76
45:UD:325:GLU:OE2	45:UD:329:GLN:NE2	2.18	0.76
45:UH:54:ALA:HA	45:VH:283:ALA:HB2	1.67	0.76
45:UH:308:GLY:HA2	45:UH:426:GLN:NE2	2.00	0.76
44:UK:324:VAL:HG12	44:UK:326:LYS:HG2	1.67	0.76
45:UN:52:ASN:N	45:UN:60:VAL:O	2.15	0.76
45:UN:305:PRO:HA	45:UN:373:ALA:CB	2.15	0.76
44:VA:102:ASN:HB3	44:VA:105:ARG:HB2	1.65	0.76
44:VA:144:GLY:N	46:VA:501:GTP:O3B	2.18	0.76
45:VD:332:ASN:OD1	45:VD:336:LYS:HE2	1.84	0.76
44:VE:404:PHE:CE1	45:VF:259:PRO:HA	2.20	0.76
44:VG:233:GLN:O	44:VG:236:SER:OG	2.02	0.76
45:WB:284:LEU:HB2	45:WB:362:LYS:NZ	2.01	0.76
44:WG:340:THR:HG23	44:WG:341:ILE:HG13	1.67	0.76
44:WK:185:TYR:HE2	44:WK:404:PHE:HB2	1.50	0.76
45:WL:97:ALA:HB2	45:WL:143:THR:HB	1.64	0.76
44:WM:405:VAL:HG12	44:WM:409:VAL:HG23	1.66	0.76
1:6H:283:LEU:HD12	44:FE:357:TYR:CE2	2.19	0.76
2:0A:121:ALA:O	45:AB:276:ARG:NH2	2.18	0.76
2:2A:71:TYR:CZ	44:AI:223:THR:HG21	2.20	0.76
16:4X:103:ASN:OD1	44:LG:369:ALA:HB1	1.84	0.76
37:5D:21:GLN:HB2	45:KN:415:MET:SD	2.23	0.76
37:5D:112:PRO:HG2	44:NM:283:HIS:HA	1.66	0.76
38:5G:123:ARG:HB3	44:OI:372:MET:HE2	1.66	0.76
39:5I:104:THR:OG1	39:5I:105:PRO:HD3	1.86	0.76
36:5S:192:MET:HA	45:AH:424:GLN:NE2	2.00	0.76
11:6Q:97:LYS:NZ	11:6Q:146:THR:OG1	2.18	0.76
35:7R:435:LYS:HA	35:7R:438:ASN:ND2	1.99	0.76
44:AC:349:THR:HG1	45:AF:176:SER:HG	1.24	0.76
45:AF:235:GLY:HA3	45:AF:366:THR:HG21	1.65	0.76
44:AI:66:VAL:HG11	44:AI:122:ILE:HD11	1.67	0.76
45:BD:249:ASP:OD1	45:BD:252:LYS:N	2.18	0.76
44:BK:141:VAL:HG12	44:BK:171:ILE:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:207:LEU:HD21	45:BL:300:MET:CE	2.15	0.76
45:BN:36:TYR:CZ	45:BN:44:LEU:HD11	2.20	0.76
45:BN:143:THR:OG1	45:BN:147:MET:SD	2.42	0.76
45:CJ:286:VAL:CG1	45:CJ:287:PRO:HD3	2.14	0.76
44:CK:55:GLU:HG3	44:CK:57:GLY:H	1.50	0.76
45:CN:64:ILE:HG13	45:CN:89:ASN:ND2	2.01	0.76
44:DA:292:THR:HG21	44:DA:331:SER:HB3	1.66	0.76
44:DK:384:ILE:O	44:DK:387:VAL:HG22	1.85	0.76
45:EF:100:ASN:ND2	45:EF:103:LYS:HB2	2.01	0.76
44:EM:210:TYR:CE2	44:EM:227:LEU:HD11	2.20	0.76
44:FA:14:ILE:HD11	44:FA:69:ASP:HB2	1.67	0.76
45:FF:73:MET:CE	45:FF:92:PHE:HB3	2.15	0.76
44:FG:102:ASN:OD1	44:FG:105:ARG:N	2.18	0.76
44:FI:141:VAL:HG11	44:FI:172:TYR:CD1	2.21	0.76
44:FK:257:THR:HA	45:FN:397:TRP:CZ2	2.19	0.76
44:FM:175:PRO:HB3	44:FM:390:ARG:CD	2.15	0.76
44:FM:259:LEU:HD11	44:FM:316:SER:HB3	1.68	0.76
45:FN:156:ARG:HD3	45:FN:164:MET:CG	2.15	0.76
44:GC:2:ARG:HD3	44:GC:242:LEU:HD12	1.67	0.76
44:GE:200:VAL:HG21	44:GE:256:GLN:HB3	1.67	0.76
44:GG:320:ARG:CD	44:GG:360:PRO:HG3	2.16	0.76
44:GI:259:LEU:HD21	44:GI:316:SER:HB3	1.66	0.76
44:GK:261:PRO:HA	45:GN:397:TRP:CZ2	2.21	0.76
44:GM:394:LYS:HA	44:GM:397:LEU:HD12	1.66	0.76
44:HC:230:LEU:HD12	44:HC:275:ILE:HD13	1.67	0.76
44:IG:141:VAL:HG11	44:IG:172:TYR:CD1	2.21	0.76
44:II:141:VAL:HG22	44:II:187:SER:HA	1.67	0.76
45:IJ:7:ILE:HG12	45:IJ:64:ILE:HB	1.66	0.76
45:JH:326:VAL:O	45:JH:330:MET:HG2	1.85	0.76
44:JK:177:VAL:HA	45:JL:331:LEU:HD11	1.67	0.76
45:JN:405:GLU:HA	45:JN:408:PHE:HD2	1.50	0.76
44:KE:88:HIS:HE1	44:KE:90:GLU:HG2	1.50	0.76
45:KF:105:HIS:NE2	45:KF:150:LEU:HD13	1.99	0.76
44:KK:60:LYS:NZ	44:KK:62:VAL:HG22	2.00	0.76
44:KK:196:GLU:HG2	44:KK:197:HIS:HD2	1.49	0.76
45:LB:285:THR:O	45:LB:289:LEU:HG	1.86	0.76
44:LC:188:ILE:HD11	44:LC:391:LEU:HG	1.66	0.76
45:LD:362:LYS:HD2	45:LD:363:MET:SD	2.24	0.76
44:MM:171:ILE:HG23	44:MM:204:LEU:O	1.86	0.76
44:MM:174:SER:HB2	44:MM:177:VAL:O	1.84	0.76
45:MN:286:VAL:HG21	45:MN:325:GLU:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:71:GLU:OE1	45:ND:247:ASN:ND2	2.19	0.76
44:NI:174:SER:OG	44:NI:206:ASN:OD1	2.04	0.76
45:NJ:141:GLY:HA3	48:NJ:501:GDP:O3A	1.86	0.76
44:OC:185:TYR:O	44:OC:189:LEU:HG	1.86	0.76
44:OG:398:MET:SD	45:OH:345:ILE:HG22	2.26	0.76
45:OL:22:GLU:HG2	45:OL:81:PHE:CD1	2.21	0.76
45:OL:23:VAL:HG21	45:OL:230:SER:CB	2.16	0.76
45:PF:313:ALA:N	45:PF:348:ASN:O	2.18	0.76
44:PI:205:ASP:OD1	44:PI:303:ALA:HA	1.83	0.76
45:PN:385:PHE:HE2	45:PN:412:GLU:HB2	1.49	0.76
45:QF:323:THR:O	45:QF:327:ASP:N	2.16	0.76
45:QH:48:ASN:O	45:QH:62:ARG:NH2	2.18	0.76
45:RH:200:MET:CE	45:RH:266:PHE:HB2	2.14	0.76
44:RK:141:VAL:HG11	44:RK:172:TYR:HD1	1.49	0.76
44:RK:422:ARG:NH1	44:RK:422:ARG:O	2.19	0.76
44:RM:391:LEU:HD12	44:RM:394:LYS:HZ1	1.50	0.76
45:RN:30:ILE:HG21	45:RN:84:LEU:HD21	1.68	0.76
45:RN:289:LEU:HD13	45:RN:365:VAL:HG23	1.66	0.76
44:SE:320:ARG:NE	44:SE:360:PRO:HD3	1.99	0.76
44:SG:105:ARG:CA	44:SG:109:THR:HB	2.12	0.76
44:SK:319:TYR:CD2	44:SK:328:VAL:HG22	2.21	0.76
45:SN:21:TRP:CZ3	45:SN:50:TYR:HB3	2.20	0.76
45:SN:193:VAL:HG21	45:SN:418:LEU:HD12	1.68	0.76
45:TB:313:ALA:HA	45:TB:369:GLY:HA2	1.68	0.76
44:TG:288:VAL:O	44:TG:291:ILE:HG12	1.84	0.76
45:TH:12:CYS:O	45:TH:16:ILE:HD12	1.86	0.76
45:TH:55:THR:CG2	45:UH:284:LEU:HB2	2.14	0.76
44:TI:88:HIS:O	44:TI:91:GLN:HG2	1.84	0.76
44:TI:298:PRO:HA	44:TI:301:MET:CE	2.15	0.76
45:TJ:235:GLY:HA2	45:TJ:238:CYS:HB3	1.65	0.76
45:TL:245:GLN:NE2	45:TL:355:ASP:OD1	2.18	0.76
45:UJ:211:CYS:HB2	45:UJ:217:LEU:CD2	2.15	0.76
44:UK:89:PRO:CD	44:VI:280:LYS:HG2	2.15	0.76
44:UK:417:GLU:O	44:UK:420:GLU:HG2	1.86	0.76
45:VB:97:ALA:HB3	45:VB:143:THR:HB	1.66	0.76
45:VB:268:ILE:HG21	45:VB:368:VAL:HG22	1.65	0.76
44:VK:71:GLU:OE2	44:VK:73:THR:HG23	1.84	0.76
44:VK:141:VAL:HG23	44:VK:190:SER:OG	1.85	0.76
44:VK:174:SER:OG	44:VK:207:GLU:HB2	1.86	0.76
45:WB:268:ILE:HG22	45:WB:368:VAL:HA	1.66	0.76
44:WC:136:LEU:HD23	44:WC:167:LEU:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:42:LEU:HD23	45:WD:243:PRO:CD	2.15	0.76
4:0C:53:TYR:HB2	45:EH:322:SER:HB2	1.65	0.76
5:0D:81:ARG:HA	45:EB:320:ARG:NH2	2.00	0.76
9:1H:118:GLU:HB3	45:HL:276:ARG:HD2	1.65	0.76
5:2D:40:GLY:O	44:DK:79:ARG:NH1	2.16	0.76
32:2I:74:SER:CB	44:GE:338:LYS:HE2	2.15	0.76
28:4C:67:LYS:HD3	44:LM:82:THR:HG23	1.67	0.76
34:4F:122:TRP:HB3	45:IL:356:ILE:HD12	1.67	0.76
45:AB:11:GLN:O	45:AB:15:GLN:HG2	1.86	0.76
45:AB:288:GLU:OE1	45:AB:288:GLU:N	2.17	0.76
45:AF:207:LEU:HD21	45:AF:300:MET:CE	2.15	0.76
44:AK:224:TYR:HB3	46:AK:501:GTP:O6	1.85	0.76
45:BD:421:GLU:O	45:BD:424:GLN:HG3	1.83	0.76
45:BL:16:ILE:HD13	45:BL:226:ASN:OD1	1.86	0.76
44:BM:191:THR:HG21	44:BM:425:LEU:HD21	1.67	0.76
45:CB:139:LEU:O	45:CB:184:ASN:ND2	2.18	0.76
44:CE:396:ASP:OD1	44:CE:422:ARG:NH1	2.18	0.76
45:CF:25:SER:O	45:CF:30:ILE:N	2.14	0.76
44:CI:123:ARG:NH1	44:CI:127:ASP:OD1	2.18	0.76
44:DE:121:ARG:HA	44:DE:124:LYS:NZ	2.00	0.76
45:DL:313:ALA:HB3	45:DL:349:ILE:HA	1.67	0.76
45:DN:5:VAL:HG12	45:DN:62:ARG:HD3	1.66	0.76
44:EA:141:VAL:HG11	44:EA:172:TYR:HD1	1.51	0.76
44:EA:268:MET:HG2	44:EA:380:ASN:CG	2.05	0.76
45:ED:60:VAL:HG21	45:ED:86:ARG:NH2	2.00	0.76
45:EJ:246:LEU:HA	44:EK:11:GLN:HE22	1.51	0.76
44:EK:304:LYS:HD2	44:EK:304:LYS:O	1.84	0.76
45:EL:268:ILE:HG22	45:EL:368:VAL:HG22	1.68	0.76
44:FK:273:ALA:O	44:FK:375:VAL:N	2.16	0.76
45:FL:317:PHE:HB2	45:FL:353:ILE:HD13	1.68	0.76
44:FM:141:VAL:HG12	44:FM:171:ILE:O	1.85	0.76
45:FN:150:LEU:HD23	45:FN:154:LYS:NZ	2.01	0.76
45:GB:134:GLN:HB3	45:GB:165:GLU:HB2	1.67	0.76
44:GC:112:LYS:O	44:GC:115:VAL:HG12	1.86	0.76
45:GN:396:HIS:CA	45:GN:399:THR:HG22	2.09	0.76
45:HB:395:LEU:HG	45:HB:399:THR:HG23	1.66	0.76
45:HD:248:SER:CA	45:HD:252:LYS:HD2	2.16	0.76
44:HG:301:MET:HE3	44:HG:307:PRO:HD3	1.66	0.76
44:HI:51:THR:HG23	44:HI:52:PHE:CD2	2.20	0.76
45:HJ:285:THR:HG22	45:HJ:287:PRO:CD	2.12	0.76
44:HM:239:THR:CA	44:HM:242:LEU:HD23	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:54:SER:HB3	44:IA:64:ARG:HE	1.49	0.76
45:IB:269:GLY:N	45:IB:367:PHE:O	2.18	0.76
44:IC:328:VAL:HG11	44:IC:353:VAL:HG21	1.66	0.76
44:IM:2:ARG:NE	44:IM:51:THR:OG1	2.17	0.76
45:JB:302:ALA:HB3	45:JB:380:ARG:HH22	1.49	0.76
45:JL:332:ASN:O	45:JL:336:LYS:HG2	1.86	0.76
44:JM:314:ALA:O	44:JM:380:ASN:N	2.18	0.76
44:KC:288:VAL:HA	44:KC:291:ILE:HG12	1.67	0.76
44:KK:205:ASP:OD1	44:KK:303:ALA:HA	1.85	0.76
44:LG:75:ILE:HD11	44:LG:92:LEU:HD23	1.68	0.76
44:LG:161:TYR:HB3	44:LG:164:LYS:NZ	2.01	0.76
45:MJ:259:PRO:HG2	45:MJ:311:LEU:HD13	1.67	0.76
44:MM:88:HIS:HB3	44:MM:91:GLN:HB2	1.66	0.76
45:MN:221:THR:N	45:MN:224:ASP:OD2	2.19	0.76
45:ND:86:ARG:NH1	45:OD:280:GLN:HB3	2.00	0.76
45:NH:1:MET:SD	45:NH:2:ARG:HG2	2.25	0.76
44:NI:332:ILE:HD12	44:NI:351:PHE:CD2	2.20	0.76
44:NK:34:GLY:HA3	44:NK:60:LYS:HE3	1.65	0.76
44:NK:88:HIS:O	44:NK:91:GLN:HG2	1.84	0.76
45:NL:203:ASP:OD2	45:NL:302:ALA:N	2.14	0.76
44:NM:268:MET:HE2	44:NM:378:ILE:HG23	1.65	0.76
44:NM:425:LEU:HD13	44:NM:428:LEU:CD1	2.14	0.76
44:OE:211:ASP:O	44:OE:214:ARG:N	2.17	0.76
45:OF:6:HIS:ND1	45:OF:134:GLN:OE1	2.18	0.76
45:OJ:355:ASP:O	45:OJ:357:PRO:HD2	1.86	0.76
45:OL:269:GLY:O	45:OL:367:PHE:N	2.19	0.76
45:PD:163:ILE:HG21	45:PD:251:ARG:HG2	1.68	0.76
45:PF:303:ALA:HB2	45:PF:377:MET:SD	2.25	0.76
45:PH:167:PHE:CE2	45:PH:233:MET:HG2	2.20	0.76
45:PH:318:ARG:HD3	45:PH:358:PRO:HD3	1.67	0.76
44:PI:76:ASP:OD1	44:PI:79:ARG:NH2	2.19	0.76
45:PN:135:ILE:O	45:PN:167:PHE:N	2.18	0.76
44:QE:64:ARG:NH1	44:QE:129:CYS:SG	2.58	0.76
44:QE:287:SER:HB3	44:QE:290:GLU:HG2	1.67	0.76
45:QH:12:CYS:O	45:QH:16:ILE:HG12	1.85	0.76
45:QJ:12:CYS:HB3	45:QJ:138:SER:HB2	1.66	0.76
45:QL:189:VAL:HG11	45:QL:415:MET:HG3	1.68	0.76
44:QM:219:ILE:O	44:QM:222:PRO:HD3	1.84	0.76
44:QM:294:SER:HA	44:QM:297:GLU:OE2	1.86	0.76
45:RD:306:ARG:HA	45:RD:340:TYR:HE2	1.51	0.76
44:RM:328:VAL:HG12	44:RM:332:ILE:HG12	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RN:77:ARG:HA	45:RN:82:GLY:HA3	1.68	0.76
45:SD:236:VAL:CG1	45:SD:250:LEU:HD11	2.16	0.76
45:TF:22:GLU:OE1	45:TF:81:PHE:HB2	1.85	0.76
44:TI:7:ILE:HD12	44:TI:122:ILE:HD12	1.68	0.76
45:TJ:86:ARG:HA	45:TJ:86:ARG:HH11	1.50	0.76
45:TJ:245:GLN:OE1	45:TJ:246:LEU:HD13	1.85	0.76
45:TJ:378:PHE:HB3	45:TJ:415:MET:CE	2.16	0.76
45:TN:33:THR:HG1	45:TN:56:GLY:N	1.84	0.76
45:UD:36:TYR:CZ	45:UD:44:LEU:HD11	2.19	0.76
45:UF:255:VAL:HA	44:UG:407:TRP:CH2	2.21	0.76
44:UG:326:LYS:HG2	45:UH:220:PRO:HD2	1.67	0.76
45:UH:222:TYR:HB3	48:UH:501:GDP:O6	1.85	0.76
44:UI:103:PHE:HB2	44:UI:186:ASN:HB2	1.66	0.76
44:UK:143:GLY:HA2	46:UK:501:GTP:H5'	1.67	0.76
45:UL:55:THR:CG2	45:VL:283:ALA:HA	2.12	0.76
45:UL:100:ASN:HD21	45:UL:102:ALA:HB3	1.51	0.76
44:UM:4:VAL:O	44:UM:64:ARG:HD2	1.85	0.76
45:UN:182:PRO:HG2	45:UN:388:MET:CE	2.15	0.76
44:VC:129:CYS:HB2	44:VC:132:LEU:HD11	1.68	0.76
44:WK:185:TYR:OH	44:WK:398:MET:HB3	1.85	0.76
44:WM:285:GLN:HG2	44:WM:286:LEU:HA	1.68	0.76
28:2C:298:PRO:HB2	45:KJ:359:LYS:HZ1	1.49	0.76
37:5D:27:LYS:HE2	45:KN:392:LYS:HG2	1.66	0.76
38:5F:142:TYR:O	38:5F:145:GLU:HG2	1.86	0.76
38:5H:12:ASN:HD21	45:NL:57:GLY:HA3	1.49	0.76
39:5J:44:ARG:CZ	44:JE:423:GLU:HA	2.16	0.76
11:5Q:96:ASP:OD1	11:5Q:147:ASN:HB2	1.86	0.76
35:5R:581:THR:OG1	35:5R:584:GLU:OE1	2.02	0.76
41:6G:138:LYS:H	44:VG:340:THR:HG21	1.48	0.76
46:AA:501:GTP:O1G	45:AB:252:LYS:NZ	2.19	0.76
45:AB:420:SER:O	45:AB:424:GLN:HG3	1.86	0.76
45:AF:207:LEU:HB3	45:AF:225:LEU:HD22	1.66	0.76
45:AH:334:GLN:NE2	45:AH:348:ASN:OD1	2.19	0.76
44:BC:145:THR:OG1	46:BC:501:GTP:O3B	2.03	0.76
44:BI:2:ARG:HD3	44:BI:242:LEU:HD22	1.67	0.76
44:BI:65:ALA:O	44:BI:91:GLN:NE2	2.19	0.76
45:BN:319:GLY:CA	45:BN:357:PRO:HG3	2.15	0.76
45:CB:316:LEU:HA	45:CB:352:SER:HB2	1.68	0.76
44:CC:140:SER:HB2	46:CC:501:GTP:H1'	1.67	0.76
45:CH:24:ILE:HG12	45:CH:233:MET:HE1	1.67	0.76
45:CJ:58:ARG:NH1	45:DJ:280:GLN:O	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:257:THR:HA	45:CN:397:TRP:NE1	2.01	0.76
45:DB:350:LYS:HA	44:DC:179:THR:O	1.85	0.76
45:DF:7:ILE:HB	45:DF:135:ILE:CD1	2.16	0.76
45:DH:334:GLN:HG3	45:DH:341:PHE:HD2	1.50	0.76
45:DJ:378:PHE:HA	45:DJ:381:VAL:CG1	2.15	0.76
45:EB:257:LEU:HB3	45:EB:266:PHE:CZ	2.21	0.76
45:ED:116:VAL:O	45:ED:120:VAL:N	2.15	0.76
45:ED:201:VAL:HG22	45:ED:266:PHE:O	1.84	0.76
45:EH:166:THR:C	45:EH:200:MET:HG3	2.06	0.76
45:FD:200:MET:CE	45:FD:266:PHE:HB2	2.16	0.76
44:FG:76:ASP:OD1	44:FG:79:ARG:NH2	2.19	0.76
45:FH:327:ASP:O	45:FH:331:LEU:N	2.18	0.76
45:FJ:269:GLY:HA2	45:FJ:300:MET:HE1	1.67	0.76
45:FN:271:ALA:O	45:FN:365:VAL:N	2.14	0.76
44:GC:284:GLU:HG3	44:GC:286:LEU:CD2	2.16	0.76
45:GD:139:LEU:HD13	45:GD:168:SER:HB3	1.68	0.76
44:GE:145:THR:HG22	46:GE:501:GTP:PG	2.26	0.76
44:GE:433:GLU:O	44:GE:437:ILE:HG12	1.86	0.76
44:GG:174:SER:HB2	44:GG:177:VAL:O	1.86	0.76
44:GM:231:ILE:O	44:GM:235:ILE:HD12	1.85	0.76
44:HC:51:THR:HG21	44:HC:243:ARG:HD3	1.66	0.76
44:HG:311:LYS:HB2	44:HG:382:THR:HG21	1.65	0.76
44:IA:194:LEU:HB2	44:IA:198:THR:OG1	1.83	0.76
44:IC:84:ARG:NH1	44:IC:85:GLN:OE1	2.19	0.76
44:IK:206:ASN:O	44:IK:209:ILE:HG22	1.84	0.76
44:IM:207:GLU:HA	44:IM:210:TYR:HD2	1.49	0.76
45:JD:286:VAL:O	45:JD:290:THR:HG23	1.86	0.76
44:JE:205:ASP:OD2	44:JE:304:LYS:N	2.17	0.76
45:JJ:69:GLU:OE2	45:JJ:72:THR:N	2.16	0.76
45:JJ:182:PRO:O	45:JJ:186:THR:HG23	1.85	0.76
44:JM:335:ILE:O	44:JM:338:LYS:HG2	1.84	0.76
44:KG:88:HIS:CE1	44:KG:90:GLU:HG2	2.21	0.76
45:KL:113:ILE:HA	45:KL:116:VAL:HG12	1.66	0.76
45:LB:362:LYS:O	45:LB:363:MET:HG2	1.85	0.76
44:LC:204:LEU:HD13	44:LC:231:ILE:HD13	1.67	0.76
45:LH:317:PHE:HB2	45:LH:321:MET:HE2	1.68	0.76
45:LJ:253:LEU:HD11	45:LJ:316:LEU:HD11	1.65	0.76
45:MD:289:LEU:HD13	45:MD:365:VAL:HG13	1.68	0.76
45:MF:130:LEU:HD21	45:MF:133:PHE:CE1	2.21	0.76
44:MI:269:LEU:HD12	44:MI:303:ALA:CB	2.15	0.76
44:MI:269:LEU:HD12	44:MI:303:ALA:HB3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:224:TYR:CD1	45:MN:323:THR:HG21	2.20	0.76
44:NE:269:LEU:HD13	44:NE:301:MET:HE2	1.68	0.76
44:NI:312:TYR:O	44:NI:344:VAL:HG23	1.85	0.76
44:NK:333:ALA:HA	44:NK:336:LYS:HD3	1.66	0.76
45:NL:117:LEU:HD21	45:NL:154:LYS:HD3	1.66	0.76
45:NN:68:LEU:HG	45:NN:96:GLY:H	1.50	0.76
45:NN:178:THR:HG22	45:NN:180:VAL:HG22	1.67	0.76
44:OA:195:LEU:HD12	44:OA:266:HIS:CE1	2.20	0.76
44:OA:247:ALA:HB1	45:OD:222:TYR:CE2	2.19	0.76
45:OF:344:TRP:CE3	45:OF:345:ILE:HG23	2.21	0.76
44:OM:277:SER:O	44:OM:281:ALA:N	2.17	0.76
45:ON:271:ALA:HB3	45:ON:365:VAL:CG2	2.15	0.76
45:PB:7:ILE:HB	45:PB:135:ILE:HD13	1.67	0.76
45:PH:207:LEU:HB3	45:PH:225:LEU:CD2	2.16	0.76
45:PN:225:LEU:HD23	45:PN:228:LEU:HD12	1.67	0.76
45:QB:321:MET:HE1	45:QB:326:VAL:HG21	1.65	0.76
44:QC:202:VAL:HG13	44:QC:269:LEU:HA	1.66	0.76
45:QD:135:ILE:HG21	45:QD:152:ILE:HD11	1.66	0.76
45:QF:272:PRO:HD3	45:QF:289:LEU:HD22	1.67	0.76
44:QG:101:ASN:HA	44:QG:144:GLY:HA3	1.65	0.76
45:QL:73:MET:O	45:QL:76:VAL:HG12	1.86	0.76
44:RC:377:MET:HE2	44:RC:379:SER:HB3	1.66	0.76
45:RL:46:ARG:NH2	44:RM:76:ASP:OD2	2.19	0.76
44:SC:111:GLY:O	44:SC:115:VAL:HG13	1.85	0.76
44:SE:14:ILE:HD11	44:SE:69:ASP:HB2	1.67	0.76
44:SG:200:VAL:HG13	44:SG:268:MET:CE	2.16	0.76
45:SN:46:ARG:HH21	45:SN:48:ASN:HB3	1.50	0.76
44:TC:16:VAL:HG22	44:TC:228:ASN:OD1	1.84	0.76
44:TC:319:TYR:N	44:TC:354:GLY:O	2.19	0.76
44:TE:240:ALA:HB1	44:TE:356:ASN:HD22	1.51	0.76
45:TH:351:SER:HB3	44:TI:179:THR:HG23	1.67	0.76
45:TL:322:SER:OG	44:TM:221:ARG:NH1	2.18	0.76
45:TN:139:LEU:HD13	45:TN:168:SER:HB3	1.66	0.76
45:UB:278:SER:HG	45:UB:282:ARG:H	1.28	0.76
44:UI:54:SER:HB3	44:UI:64:ARG:NH2	2.00	0.76
45:UJ:156:ARG:NH1	45:UJ:162:ARG:O	2.18	0.76
44:UK:208:ALA:O	44:UK:212:ILE:N	2.17	0.76
45:UL:28:HIS:O	45:UL:43:GLN:NE2	2.18	0.76
45:UL:271:ALA:HB1	45:UL:272:PRO:HA	1.65	0.76
45:WB:318:ARG:HD3	45:WB:358:PRO:HD3	1.68	0.76
44:WE:213:CYS:HB3	44:WE:217:LEU:HD12	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:342:VAL:HG13	45:WJ:345:ILE:HG22	1.67	0.76
22:1L:176:ARG:HH22	44:CI:367:ASP:HA	1.48	0.76
25:1P:277:LYS:NZ	44:TE:282:TYR:HB2	2.00	0.76
15:1V:146:PRO:CD	44:LK:414:GLU:OE2	2.34	0.76
6:3E:53:LYS:HZ1	35:6R:382:TYR:HE1	1.28	0.76
26:3R:70:THR:HG22	45:ML:320:ARG:HG3	1.64	0.76
14:3U:238:SER:O	45:WN:32:PRO:HD2	1.86	0.76
38:5G:123:ARG:HD3	44:OI:370:LYS:CD	2.14	0.76
38:5H:41:THR:HB	44:OK:372:MET:SD	2.26	0.76
35:5R:169:ILE:HG13	35:5R:170:ASN:H	1.51	0.76
44:AA:71:GLU:OE1	44:AA:73:THR:HG22	1.85	0.76
44:AG:372:MET:HB3	44:AG:373:ARG:HD3	1.67	0.76
44:BG:141:VAL:HG21	44:BG:172:TYR:HD1	1.48	0.76
45:BJ:282:ARG:NH2	45:BJ:292:GLN:OE1	2.17	0.76
44:BM:89:PRO:HD3	44:CM:283:HIS:CE1	2.20	0.76
44:BM:404:PHE:CD2	45:BN:259:PRO:HA	2.21	0.76
44:CE:254:GLU:HG2	45:CF:98:GLY:CA	2.15	0.76
45:CH:387:ALA:O	45:CH:390:ARG:HG2	1.85	0.76
44:CK:145:THR:HG22	46:CK:501:GTP:O2G	1.85	0.76
45:CL:322:SER:CB	44:CM:221:ARG:HG3	2.16	0.76
44:CM:84:ARG:HG3	44:CM:85:GLN:HG2	1.67	0.76
44:CM:115:VAL:HG21	44:CM:156:ARG:NH2	2.01	0.76
45:DD:302:ALA:HB3	45:DD:377:MET:HE3	1.67	0.76
45:ED:252:LYS:HG3	44:EE:101:ASN:ND2	2.01	0.76
45:EJ:1:MET:O	45:EJ:2:ARG:HG2	1.86	0.76
44:FA:234:VAL:HG13	44:FA:376:CYS:SG	2.25	0.76
45:FH:1:MET:O	45:FH:2:ARG:HG2	1.85	0.76
45:FJ:139:LEU:HD12	45:FJ:188:SER:OG	1.84	0.76
45:FJ:203:ASP:OD2	45:FJ:302:ALA:N	2.19	0.76
44:FK:328:VAL:CG1	44:FK:353:VAL:HG21	2.11	0.76
45:FL:314:SER:HA	45:FL:350:LYS:HB3	1.68	0.76
44:GC:118:CYS:O	44:GC:122:ILE:HG12	1.85	0.76
45:GD:258:ILE:HD12	45:GD:264:HIS:HA	1.67	0.76
44:GM:319:TYR:O	44:GM:356:ASN:N	2.18	0.76
45:HF:110:ALA:O	45:HF:113:ILE:HG22	1.85	0.76
44:IM:313:MET:N	44:IM:380:ASN:O	2.11	0.76
44:JG:256:GLN:O	44:JG:260:VAL:HG22	1.86	0.76
44:JK:194:LEU:O	44:JK:198:THR:HG22	1.85	0.76
44:JM:270:SER:HB3	44:JM:378:ILE:HG12	1.68	0.76
44:KC:195:LEU:HD21	44:KC:264:ARG:NH1	2.00	0.76
44:KC:224:TYR:HE2	45:KD:246:LEU:HD11	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KH:185:ALA:O	45:KH:188:SER:OG	2.02	0.76
45:KL:1:MET:HB3	45:KL:2:ARG:HH11	1.50	0.76
45:LB:235:GLY:HA2	45:LB:318:ARG:HH11	1.50	0.76
45:LF:181:GLU:HG2	45:LF:182:PRO:HD3	1.66	0.76
44:LI:406:HIS:O	44:LI:409:VAL:HG12	1.86	0.76
45:LN:269:GLY:HA2	45:LN:300:MET:HE2	1.68	0.76
44:NI:288:VAL:HA	44:NI:291:ILE:HG12	1.68	0.76
44:NK:326:LYS:HD2	45:NN:220:PRO:CG	2.15	0.76
45:NL:6:HIS:HE1	45:NL:8:GLN:HB3	1.48	0.76
44:OA:184:PRO:HA	44:OA:187:SER:HB2	1.67	0.76
44:OA:273:ALA:HB2	44:OA:300:ASN:HD21	1.50	0.76
44:OA:295:ALA:HB1	44:OA:377:MET:HG3	1.66	0.76
44:OA:320:ARG:HA	44:OA:356:ASN:HB3	1.67	0.76
45:OD:274:THR:HG21	45:OD:279:GLN:HG3	1.66	0.76
44:OM:75:ILE:HD11	44:OM:92:LEU:HD23	1.67	0.76
44:OM:207:GLU:HA	44:OM:210:TYR:CD2	2.20	0.76
44:PA:234:VAL:O	44:PA:238:LEU:N	2.18	0.76
45:PB:274:THR:OG1	45:PB:282:ARG:NH1	2.19	0.76
44:PE:186:ASN:OD1	44:PE:187:SER:N	2.19	0.76
44:PK:349:THR:HG1	45:PN:176:SER:HG	0.76	0.76
44:QG:31:GLN:HG2	44:QG:32:PRO:HD2	1.65	0.76
44:QM:167:LEU:HD11	44:QM:252:ILE:CG2	2.14	0.76
45:RD:86:ARG:NE	45:RD:87:PRO:HD2	2.00	0.76
44:RK:262:TYR:HB3	44:RK:263:PRO:HD2	1.67	0.76
44:RM:432:TYR:O	44:RM:436:GLY:N	2.18	0.76
44:SC:334:THR:HG22	44:SC:338:LYS:HZ3	1.51	0.76
45:SD:252:LYS:HG3	44:SE:101:ASN:OD1	1.86	0.76
44:SE:205:ASP:OD2	44:SE:304:LYS:N	2.18	0.76
45:SF:22:GLU:HG2	45:SF:81:PHE:CD2	2.17	0.76
45:SL:49:VAL:O	45:SL:62:ARG:NH1	2.19	0.76
45:TB:293:MET:HG3	45:TB:294:PHE:HD1	1.50	0.76
44:TE:135:PHE:HB2	44:TE:166:LYS:HA	1.68	0.76
44:TE:186:ASN:OD1	44:TE:187:SER:N	2.19	0.76
44:TI:141:VAL:CG1	44:TI:172:TYR:HA	2.16	0.76
45:TJ:130:LEU:HB3	45:TJ:162:ARG:HE	1.50	0.76
44:UA:75:ILE:HG21	44:UA:94:SER:HB2	1.68	0.76
44:UC:115:VAL:HG21	44:UC:152:LEU:HG	1.66	0.76
44:UC:143:GLY:HA3	46:UC:501:GTP:O2B	1.85	0.76
44:UC:359:PRO:HB2	44:UC:360:PRO:HD2	1.67	0.76
45:UF:222:TYR:O	45:UF:226:ASN:ND2	2.18	0.76
45:UH:183:TYR:HE2	45:UH:394:PHE:HB2	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:28:HIS:O	45:UJ:43:GLN:NE2	2.18	0.76
45:VF:139:LEU:HD13	45:VF:168:SER:HB3	1.68	0.76
44:VM:389:SER:O	44:VM:393:HIS:N	2.12	0.76
44:WG:316:SER:OG	44:WG:352:LYS:HB3	1.85	0.76
2:0A:50:PRO:HB2	35:7R:70:ARG:NH1	2.01	0.76
2:0A:138:TRP:HZ3	44:AA:81:GLY:HA2	1.50	0.76
9:1H:359:VAL:HB	44:HA:370:LYS:HE3	1.67	0.76
20:1J:134:HIS:HD1	44:IE:282:TYR:HH	0.78	0.76
29:2F:85:MET:HB2	44:GE:114:ILE:HD11	1.68	0.76
31:3H:196:SER:HA	45:AH:42:LEU:HD13	1.68	0.76
31:4H:187:LEU:HD12	45:AL:279:GLN:HG2	1.67	0.76
11:5Q:71:ILE:HG22	11:5Q:73:LEU:H	1.49	0.76
35:5R:131:GLU:HG3	35:5R:141:GLN:HE21	1.50	0.76
35:5R:453:ILE:HG21	35:5R:498:LEU:HD11	1.65	0.76
11:6Q:64:ASP:HB2	11:6Q:65:PRO:HD2	1.68	0.76
44:AA:288:VAL:HA	44:AA:291:ILE:HG12	1.67	0.76
45:BH:203:ASP:O	45:BH:207:LEU:HD23	1.86	0.76
44:BM:21:TRP:O	44:BM:25:CYS:N	2.13	0.76
45:CB:150:LEU:HD21	45:CB:154:LYS:HE2	1.68	0.76
45:CN:210:ILE:O	45:CN:214:THR:OG1	2.02	0.76
44:DA:9:VAL:CG1	44:DA:139:ASN:HB3	2.15	0.76
45:DF:322:SER:OG	44:DG:222:PRO:O	2.02	0.76
45:DL:22:GLU:HG2	45:DL:81:PHE:CG	2.20	0.76
45:EB:135:ILE:N	45:EB:165:GLU:O	2.17	0.76
44:EG:56:THR:HA	44:FE:285:GLN:HB3	1.66	0.76
44:EG:198:THR:HG22	44:EG:199:ASP:H	1.50	0.76
45:EH:112:LEU:HD23	45:EH:112:LEU:O	1.86	0.76
44:EK:340:THR:HG23	44:EK:341:ILE:CD1	2.15	0.76
45:EL:318:ARG:HH11	45:EL:358:PRO:HG3	1.50	0.76
44:FA:254:GLU:HG2	45:FD:98:GLY:CA	2.16	0.76
45:FF:198:GLU:OE2	45:FF:254:ALA:HB2	1.86	0.76
44:FG:326:LYS:HE2	45:FJ:219:THR:CB	2.15	0.76
44:FK:223:THR:HA	45:FL:322:SER:HB2	1.67	0.76
44:GA:164:LYS:HD2	44:GA:165:SER:H	1.51	0.76
45:GB:245:GLN:N	45:GB:353:ILE:O	2.19	0.76
45:GD:135:ILE:O	45:GD:166:THR:HA	1.86	0.76
45:GD:233:MET:O	45:GD:236:VAL:HG12	1.84	0.76
45:HD:199:CYS:O	45:HD:265:PHE:HA	1.85	0.76
44:HE:188:ILE:HD12	44:HE:425:LEU:CD1	2.11	0.76
44:HE:296:PHE:HE1	44:HE:377:MET:HG3	1.50	0.76
45:HN:147:MET:SD	45:HN:150:LEU:HD21	2.25	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:99:ASN:HA	45:IB:142:GLY:H	1.51	0.76
44:IC:247:ALA:HB2	44:IC:357:TYR:OH	1.86	0.76
45:IF:40:SER:N	45:IF:43:GLN:OE1	2.19	0.76
45:IL:142:GLY:N	48:IL:501:GDP:O2B	2.19	0.76
45:JD:265:PHE:HE2	45:JD:418:LEU:HD11	1.49	0.76
45:JF:209:ASP:HA	45:JF:213:ARG:NE	2.00	0.76
45:JH:103:LYS:O	45:JH:108:GLU:HB3	1.84	0.76
44:JM:419:SER:O	44:JM:423:GLU:HG3	1.86	0.76
45:JN:372:THR:HA	45:JN:422:TYR:HE2	1.49	0.76
45:KJ:228:LEU:HD21	45:KJ:273:LEU:HD11	1.67	0.76
44:LC:66:VAL:HG11	44:LC:122:ILE:HD11	1.66	0.76
44:LC:113:GLU:OE1	44:LC:113:GLU:N	2.19	0.76
44:LG:226:ASN:ND2	44:LG:367:ASP:OD2	2.18	0.76
44:LM:34:GLY:O	44:LM:61:HIS:ND1	2.17	0.76
45:MB:61:PRO:HG2	45:MB:84:LEU:HB3	1.66	0.76
45:MH:217:LEU:HD11	45:MH:220:PRO:HB3	1.68	0.76
45:MJ:198:GLU:OE2	45:MJ:254:ALA:HB2	1.86	0.76
45:ML:172:SER:OG	45:ML:205:GLU:OE1	2.04	0.76
44:MM:76:ASP:OD2	45:MN:46:ARG:NH2	2.19	0.76
44:NG:307:PRO:HB3	44:NG:312:TYR:CE1	2.20	0.76
44:NK:310:GLY:HA3	44:NK:383:ALA:HB2	1.68	0.76
45:OH:267:MET:HE3	45:OH:374:ILE:HG22	1.67	0.76
45:ON:318:ARG:CB	45:ON:357:PRO:HA	2.14	0.76
44:PE:10:GLY:O	44:PE:14:ILE:N	2.13	0.76
44:PE:384:ILE:O	44:PE:387:VAL:HG22	1.86	0.76
45:PF:268:ILE:HG13	45:PF:300:MET:HE2	1.67	0.76
44:PG:71:GLU:CD	44:PG:73:THR:H	1.89	0.76
44:PK:71:GLU:OE1	44:PK:73:THR:N	2.14	0.76
44:PK:174:SER:OG	44:PK:206:ASN:OD1	2.04	0.76
44:QA:70:LEU:HB3	44:QA:97:GLU:O	1.86	0.76
45:QD:390:ARG:O	45:QD:392:LYS:NZ	2.19	0.76
44:RC:315:CYS:N	44:RC:350:GLY:O	2.18	0.76
45:RL:331:LEU:HD22	44:RM:177:VAL:HG22	1.65	0.76
44:SI:183:GLU:O	44:SI:187:SER:N	2.19	0.76
44:SK:115:VAL:O	44:SK:119:LEU:HD23	1.86	0.76
44:SM:75:ILE:CG2	44:SM:78:VAL:HB	2.15	0.76
45:TB:121:ARG:HA	45:TB:121:ARG:CZ	2.16	0.76
44:TE:276:ILE:CG1	44:TE:281:ALA:HA	2.16	0.76
44:TG:70:LEU:HB3	44:TG:98:ASP:HA	1.67	0.76
45:TH:3:GLU:O	45:TH:130:LEU:HA	1.85	0.76
45:TH:318:ARG:HD3	45:TH:358:PRO:HG3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:64:ARG:NH1	44:UA:129:CYS:SG	2.59	0.76
45:UD:87:PRO:HA	45:UD:90:PHE:HD2	1.51	0.76
45:UD:271:ALA:HB1	45:UD:272:PRO:HA	1.67	0.76
44:UE:144:GLY:N	46:UE:501:GTP:O2G	2.18	0.76
45:UH:323:THR:CG2	45:UH:353:ILE:HG21	2.16	0.76
44:UI:13:GLY:HA2	44:UI:16:VAL:HG22	1.66	0.76
44:UI:314:ALA:N	44:UI:380:ASN:OD1	2.18	0.76
44:VA:89:PRO:HG2	44:WA:280:LYS:HG3	1.66	0.76
44:VC:223:THR:HG23	44:VC:225:THR:H	1.49	0.76
45:VD:376:GLU:O	45:VD:379:LYS:HG2	1.85	0.76
44:VI:119:LEU:HB3	44:VI:123:ARG:HH12	1.50	0.76
44:VI:254:GLU:HG2	45:VL:98:GLY:HA2	1.68	0.76
44:VK:261:PRO:HA	45:VN:394:PHE:CD1	2.21	0.76
44:VK:407:TRP:HZ3	45:VL:255:VAL:HA	1.50	0.76
44:VM:167:LEU:HD11	44:VM:252:ILE:HG21	1.68	0.76
44:WC:261:PRO:HG3	45:WF:394:PHE:CZ	2.21	0.76
45:WF:165:GLU:HG2	45:WF:198:GLU:OE1	1.85	0.76
44:WG:215:ARG:NH2	44:WG:300:ASN:OD1	2.17	0.76
44:WI:51:THR:HG22	44:WI:52:PHE:HD1	1.50	0.76
44:WK:188:ILE:HG13	44:WK:395:PHE:HB2	1.66	0.76
45:WL:290:THR:HB	45:WL:329:GLN:HE21	1.51	0.76
10:0N:1:MET:N	44:IM:94:SER:O	2.19	0.76
23:1M:79:VAL:CB	44:IC:39:ASP:HA	2.15	0.76
25:1P:168:ARG:NH1	44:TI:369:ALA:HB1	2.01	0.76
22:2L:870:ARG:HE	45:CJ:359:LYS:HA	1.50	0.76
2:3A:74:SER:HA	44:AM:219:ILE:CD1	2.15	0.76
28:3C:65:PHE:CZ	44:LA:33:ASP:HB2	2.20	0.76
35:4R:26:HIS:HB3	44:LC:46:ASP:OD2	1.85	0.76
37:5D:116:ALA:HB2	44:NM:288:VAL:HG22	1.66	0.76
38:5F:110:ARG:NH1	38:5F:111:ASN:OD1	2.19	0.76
35:6R:401:VAL:CG2	45:EN:277:GLY:CA	2.63	0.76
43:8P:160:UNK:O	45:QH:276:ARG:NH1	2.19	0.76
45:AD:301:CYS:HB3	45:AD:377:MET:CE	2.16	0.76
44:AG:22:GLU:HG3	44:AG:83:TYR:HE1	1.51	0.76
44:BG:325:PRO:HG3	45:BJ:222:TYR:CE2	2.21	0.76
44:BG:404:PHE:HE1	45:BH:259:PRO:HA	1.51	0.76
45:BH:107:THR:HG22	45:BH:401:GLU:OE2	1.85	0.76
44:CA:315:CYS:HA	44:CA:379:SER:HA	1.67	0.76
44:CC:384:ILE:O	44:CC:387:VAL:HG12	1.86	0.76
45:CF:22:GLU:HG2	45:CF:81:PHE:HB2	1.66	0.76
45:DF:97:ALA:CB	45:DF:143:THR:HB	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:217:LEU:HD22	44:DG:367:ASP:HB3	1.68	0.76
44:DI:34:GLY:O	44:DI:60:LYS:HA	1.86	0.76
44:DK:261:PRO:HB3	44:DK:346:TRP:HH2	1.49	0.76
45:DN:318:ARG:N	45:DN:364:ALA:O	2.18	0.76
44:EE:30:ILE:HG12	44:EE:36:MET:HE3	1.68	0.76
44:EG:276:ILE:CD1	44:EG:281:ALA:HA	2.16	0.76
45:EJ:86:ARG:HG2	45:EJ:89:ASN:OD1	1.85	0.76
44:EK:259:LEU:HD21	44:EK:316:SER:HB3	1.68	0.76
44:FA:141:VAL:HG11	44:FA:172:TYR:CD1	2.21	0.76
44:FA:181:VAL:HG22	45:FB:256:ASN:OD1	1.85	0.76
44:FA:242:LEU:HD11	44:FA:252:ILE:HG13	1.67	0.76
45:FD:146:GLY:O	45:FD:149:THR:HG22	1.86	0.76
44:FG:287:SER:O	44:FG:290:GLU:HG2	1.85	0.76
45:FH:323:THR:HA	45:FH:325:GLU:OE2	1.85	0.76
44:GA:136:LEU:HA	44:GA:167:LEU:O	1.86	0.76
44:GA:224:TYR:CZ	45:GB:323:THR:HG21	2.20	0.76
45:GF:73:MET:HE1	45:GF:92:PHE:CB	2.16	0.76
44:GI:88:HIS:CE1	44:GI:90:GLU:HG2	2.21	0.76
45:GJ:135:ILE:HD13	45:GJ:164:MET:CE	2.15	0.76
44:HC:10:GLY:O	44:HC:14:ILE:HG13	1.86	0.76
44:HC:292:THR:HG21	44:HC:331:SER:HB2	1.68	0.76
45:HF:405:GLU:N	45:HF:405:GLU:OE1	2.18	0.76
45:HH:337:ASN:HB3	45:HH:340:TYR:HD2	1.50	0.76
45:HJ:178:THR:O	45:HJ:181:GLU:HG3	1.86	0.76
45:HJ:311:LEU:HD23	45:HJ:342:VAL:HG21	1.68	0.76
44:IC:274:PRO:O	44:IC:275:ILE:HD13	1.85	0.76
45:ID:284:LEU:HA	45:ID:288:GLU:OE1	1.84	0.76
44:IE:257:THR:HG22	45:IH:397:TRP:CZ3	2.21	0.76
45:IF:178:THR:HG22	45:IF:180:VAL:H	1.50	0.76
44:II:31:GLN:OE1	44:II:32:PRO:HD2	1.86	0.76
45:IL:36:TYR:CZ	45:IL:44:LEU:HD21	2.20	0.76
45:IL:177:ASP:N	45:IL:181:GLU:OE2	2.13	0.76
45:IN:311:LEU:N	45:IN:370:ASN:O	2.19	0.76
44:JA:202:VAL:HA	44:JA:268:MET:O	1.86	0.76
45:JL:318:ARG:CG	45:JL:357:PRO:HA	2.16	0.76
44:JM:221:ARG:NH1	45:JN:325:GLU:OE1	2.19	0.76
44:KA:219:ILE:O	44:KA:222:PRO:HD3	1.86	0.76
44:KC:9:VAL:HG12	44:KC:68:LEU:HB2	1.67	0.76
44:KE:286:LEU:O	44:KE:373:ARG:NH2	2.17	0.76
45:KN:172:SER:HB2	45:KN:174:LYS:NZ	2.01	0.76
45:LD:145:SER:O	45:LD:149:THR:OG1	2.02	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:286:VAL:HG12	45:LN:289:LEU:HD12	1.65	0.76
44:MA:71:GLU:OE1	44:MA:73:THR:N	2.18	0.76
44:ME:276:ILE:HG23	44:ME:281:ALA:CB	2.16	0.76
45:MF:186:THR:HG21	45:MF:385:PHE:CD2	2.21	0.76
44:MK:319:TYR:N	44:MK:354:GLY:O	2.13	0.76
44:MM:52:PHE:HE2	44:MM:243:ARG:HH21	1.31	0.76
44:NC:71:GLU:CG	44:NC:98:ASP:HB2	2.15	0.76
44:NC:144:GLY:O	44:NC:148:GLY:N	2.19	0.76
44:NM:329:ASN:O	44:NM:333:ALA:N	2.19	0.76
45:NN:258:ILE:HG13	45:NN:266:PHE:HZ	1.50	0.76
44:OG:73:THR:OG1	45:OH:247:ASN:ND2	2.18	0.76
45:OH:67:ASP:HB3	45:OH:73:MET:HE2	1.67	0.76
45:OH:202:ILE:HD11	45:OH:268:ILE:CG1	2.16	0.76
44:PA:141:VAL:HG12	44:PA:172:TYR:HA	1.67	0.76
45:PB:13:GLY:O	45:PB:17:GLY:N	2.18	0.76
44:PE:404:PHE:CE1	45:PF:259:PRO:HA	2.21	0.76
45:PH:19:LYS:HA	45:PH:22:GLU:HB2	1.67	0.76
44:QA:268:MET:SD	44:QA:378:ILE:HG22	2.26	0.76
45:QF:20:PHE:O	45:QF:24:ILE:HD12	1.86	0.76
44:QG:140:SER:OG	46:QG:501:GTP:O2B	2.04	0.76
44:QI:6:SER:O	44:QI:7:ILE:HD13	1.86	0.76
45:QN:375:GLN:HA	45:QN:378:PHE:CD2	2.21	0.76
44:RG:209:ILE:HG12	44:RG:302:MET:HE3	1.67	0.76
44:RI:21:TRP:O	44:RI:25:CYS:N	2.16	0.76
44:RI:287:SER:O	44:RI:291:ILE:HG23	1.86	0.76
45:RL:28:HIS:HB2	45:RL:30:ILE:HD11	1.67	0.76
44:RM:135:PHE:HE2	44:RM:164:LYS:HG2	1.50	0.76
45:SF:100:ASN:ND2	45:SF:401:GLU:OE1	2.18	0.76
45:SF:379:LYS:O	45:SF:383:GLU:N	2.17	0.76
44:SG:11:GLN:HG3	44:SG:74:VAL:HG11	1.66	0.76
44:SG:254:GLU:HG2	45:SH:98:GLY:HA2	1.68	0.76
45:SJ:5:VAL:HG12	45:SJ:62:ARG:CD	2.14	0.76
45:SJ:183:TYR:HE2	45:SJ:394:PHE:HB2	1.51	0.76
44:SM:254:GLU:HG2	45:SN:98:GLY:HA2	1.68	0.76
45:SN:150:LEU:HD21	45:SN:154:LYS:HE2	1.68	0.76
45:TD:252:LYS:HE3	44:TE:101:ASN:HD21	1.51	0.76
44:TG:70:LEU:HD13	44:TG:110:ILE:HD11	1.67	0.76
45:TJ:11:GLN:HB3	48:TJ:501:GDP:O3B	1.86	0.76
45:TJ:287:PRO:HA	45:TJ:290:THR:HG22	1.68	0.76
45:TL:73:MET:O	45:TL:76:VAL:HG12	1.86	0.76
45:TL:335:ASN:O	45:TL:338:SER:OG	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:9:VAL:CG1	44:TM:139:ASN:HB2	2.16	0.76
45:TN:207:LEU:HD13	45:TN:225:LEU:HB3	1.67	0.76
45:UH:46:ARG:NH2	44:UI:76:ASP:OD2	2.18	0.76
44:UI:11:GLN:HB3	46:UI:501:GTP:PA	2.26	0.76
44:VA:206:ASN:HA	44:VA:209:ILE:HD12	1.68	0.76
44:VC:71:GLU:OE1	44:VC:73:THR:N	2.19	0.76
45:VD:203:ASP:OD1	45:VD:204:ASN:N	2.19	0.76
45:VJ:73:MET:O	45:VJ:76:VAL:HG22	1.85	0.76
45:VJ:134:GLN:HA	45:VJ:165:GLU:O	1.85	0.76
45:VL:267:MET:O	45:VL:368:VAL:HA	1.85	0.76
44:VM:21:TRP:CZ2	44:VM:65:ALA:HB2	2.21	0.76
45:VN:200:MET:CE	45:VN:268:ILE:HG12	2.16	0.76
44:WA:152:LEU:HD12	44:WA:155:GLU:HB2	1.66	0.76
45:WB:103:LYS:HA	45:WB:107:THR:OG1	1.86	0.76
45:WB:277:GLY:HA2	45:WB:280:GLN:HE22	1.51	0.76
45:WF:105:HIS:CE1	45:WF:150:LEU:HD13	2.20	0.76
45:WF:345:ILE:HG12	45:WF:348:ASN:HB3	1.68	0.76
45:WN:205:GLU:HA	45:WN:208:TYR:CE1	2.20	0.76
8:OG:161:LYS:HE2	44:KM:357:TYR:HB3	1.67	0.76
13:OT:149:ASN:ND2	45:MB:402:GLY:O	2.19	0.76
9:1H:271:ARG:HH21	45:HF:362:LYS:HA	1.50	0.76
27:2W:251:ARG:NH2	35:6R:16:CYS:O	2.12	0.76
2:3A:69:ASN:HB2	44:AM:221:ARG:HH12	1.50	0.76
2:3A:150:LEU:HA	35:6R:78:ILE:CD1	2.15	0.76
37:5C:147:TYR:HE2	44:NK:18:ASN:HB3	1.51	0.76
35:5R:287:ILE:HD13	35:5R:304:LEU:HD22	1.66	0.76
41:6G:282:PHE:HA	41:6G:285:MET:HE2	1.66	0.76
42:8L:322:UNK:O	42:8L:326:UNK:N	2.18	0.76
43:8P:45:UNK:O	43:8P:49:UNK:N	2.19	0.76
45:AH:86:ARG:HD2	45:BH:281:TYR:HB2	1.68	0.76
45:AN:66:MET:CE	45:AN:116:VAL:HG21	2.16	0.76
44:BI:69:ASP:OD1	44:BI:70:LEU:N	2.18	0.76
44:BK:105:ARG:O	44:BK:110:ILE:HG22	1.85	0.76
44:BM:210:TYR:CE1	45:BN:324:LYS:HA	2.20	0.76
45:BN:394:PHE:HA	45:BN:397:TRP:CZ3	2.20	0.76
45:CF:203:ASP:OD2	45:CF:302:ALA:N	2.18	0.76
44:CG:141:VAL:HG23	44:CG:190:SER:OG	1.86	0.76
44:CK:298:PRO:HA	44:CK:301:MET:HE2	1.67	0.76
44:CM:6:SER:CB	44:CM:136:LEU:HB2	2.15	0.76
44:CM:102:ASN:ND2	44:CM:407:TRP:O	2.18	0.76
44:CM:252:ILE:HA	44:CM:255:PHE:CZ	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:116:VAL:HA	45:CN:119:VAL:HG12	1.68	0.76
45:CN:148:GLY:O	45:CN:152:ILE:HG12	1.86	0.76
44:DA:240:ALA:HB1	44:DA:244:PHE:HD2	1.50	0.76
44:DE:254:GLU:HG2	45:DF:98:GLY:HA2	1.66	0.76
44:DI:135:PHE:O	44:DI:167:LEU:N	2.17	0.76
45:DN:242:PHE:CD1	45:DN:356:ILE:HG13	2.21	0.76
45:EB:137:HIS:N	45:EB:167:PHE:O	2.17	0.76
44:FE:221:ARG:NH1	45:FF:322:SER:O	2.19	0.76
44:FG:288:VAL:O	44:FG:291:ILE:HG22	1.85	0.76
45:FH:286:VAL:HG13	45:FH:326:VAL:CG2	2.16	0.76
44:FK:68:LEU:CD2	44:FK:93:ILE:HB	2.16	0.76
44:FM:224:TYR:N	45:FN:323:THR:HG21	2.01	0.76
45:GB:167:PHE:CB	45:GB:200:MET:HB2	2.16	0.76
45:HB:182:PRO:O	45:HB:186:THR:OG1	2.01	0.76
45:HD:20:PHE:HE1	45:HD:233:MET:HB3	1.49	0.76
45:IB:7:ILE:HG23	45:IB:64:ILE:O	1.86	0.76
45:IB:110:ALA:O	45:IB:113:ILE:HG22	1.85	0.76
45:IB:319:GLY:N	45:IB:354:CYS:O	2.18	0.76
44:IC:404:PHE:HE1	45:ID:259:PRO:HA	1.51	0.76
45:IH:202:ILE:HG13	45:IH:300:MET:HB3	1.68	0.76
45:IL:86:ARG:CZ	45:IL:89:ASN:HA	2.16	0.76
45:JH:101:TRP:CZ3	45:JH:187:LEU:HB3	2.21	0.76
45:JJ:398:TYR:O	45:JJ:403:MET:HB3	1.85	0.76
44:JK:288:VAL:HG11	44:JK:327:ASP:HB3	1.67	0.76
45:JN:69:GLU:OE1	45:JN:71:GLY:N	2.18	0.76
44:KA:11:GLN:HG3	46:KA:501:GTP:O1B	1.87	0.76
44:KA:377:MET:CE	44:KA:379:SER:HB3	2.16	0.76
45:MJ:42:LEU:HA	45:MJ:45:GLU:HG3	1.68	0.76
44:MM:184:PRO:O	44:MM:187:SER:OG	2.01	0.76
44:MM:312:TYR:CE1	44:MM:341:ILE:HG23	2.20	0.76
45:MN:22:GLU:HG2	45:MN:81:PHE:CD2	2.19	0.76
44:NE:270:SER:HB2	44:NE:378:ILE:HD13	1.68	0.76
45:NH:150:LEU:HA	45:NH:191:GLN:HE22	1.51	0.76
45:OJ:386:THR:O	45:OJ:390:ARG:HD3	1.86	0.76
44:PC:407:TRP:HZ2	45:PD:258:ILE:HD11	1.51	0.76
44:PC:435:VAL:HA	45:PF:391:ARG:HH22	1.49	0.76
45:PD:302:ALA:HB3	45:PD:377:MET:HE1	1.65	0.76
44:QA:68:LEU:HG	44:QA:93:ILE:HB	1.67	0.76
45:QH:253:LEU:HD21	45:QH:316:LEU:HD11	1.67	0.76
44:QM:236:SER:O	44:QM:240:ALA:N	2.18	0.76
45:RH:1:MET:O	45:RH:2:ARG:HG2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:382:ALA:O	45:RJ:386:THR:N	2.17	0.76
45:SF:67:ASP:OD1	45:SF:68:LEU:N	2.18	0.76
44:SM:148:GLY:O	44:SM:151:SER:OG	2.02	0.76
45:SN:254:ALA:HA	45:SN:258:ILE:HD13	1.68	0.76
45:TB:100:ASN:ND2	45:TB:401:GLU:OE1	2.19	0.76
44:TC:408:TYR:O	44:TC:413:MET:HG3	1.85	0.76
45:TF:102:ALA:HB2	45:TF:398:TYR:CD1	2.21	0.76
45:TF:187:LEU:HD23	45:TF:411:ALA:HB2	1.67	0.76
44:TG:11:GLN:HB3	46:TG:501:GTP:O3A	1.86	0.76
45:TH:174:LYS:CD	45:TH:175:VAL:HG13	2.16	0.76
44:TI:384:ILE:O	44:TI:387:VAL:HG22	1.86	0.76
45:TL:255:VAL:HG11	44:TM:101:ASN:HB2	1.68	0.76
45:TL:317:PHE:HB3	45:TL:321:MET:CE	2.16	0.76
45:TN:317:PHE:HB3	45:TN:321:MET:HE2	1.67	0.76
44:UE:169:PHE:HB3	44:UE:204:LEU:HD11	1.68	0.76
45:UF:50:TYR:OH	45:UF:134:GLN:OE1	2.02	0.76
44:UG:320:ARG:HA	44:UG:356:ASN:O	1.86	0.76
45:UL:2:ARG:HB2	45:UL:131:GLN:OE1	1.86	0.76
45:VF:288:GLU:O	45:VF:291:GLN:NE2	2.18	0.76
45:VH:100:ASN:O	45:VH:103:LYS:N	2.19	0.76
44:VI:434:GLU:O	44:VI:437:ILE:HG12	1.85	0.76
45:VL:69:GLU:OE1	45:VL:71:GLY:N	2.19	0.76
45:VL:177:ASP:N	45:VL:181:GLU:OE2	2.18	0.76
45:VN:202:ILE:HG21	45:VN:229:VAL:HG22	1.67	0.76
44:WC:352:LYS:HA	45:WF:177:ASP:O	1.86	0.76
44:WE:407:TRP:CZ3	45:WF:255:VAL:HA	2.20	0.76
45:WN:204:ASN:HA	45:WN:207:LEU:HD12	1.67	0.76
14:1U:224:ARG:NH1	44:WC:40:LYS:O	2.18	0.75
17:2B:2:ASP:HB3	45:LL:356:ILE:CD1	2.16	0.75
28:3C:1:MET:SD	45:LB:320:ARG:NH1	2.58	0.75
22:3L:173:GLN:HE22	44:CA:279:GLU:HG3	1.51	0.75
11:3Q:19:SER:N	45:WH:128:ASP:OD1	2.16	0.75
37:5D:55:ALA:HB3	44:KK:346:TRP:H	1.50	0.75
38:5F:123:ARG:HD3	44:OE:370:LYS:HZ3	1.51	0.75
35:5R:241:PRO:HB2	44:CI:373:ARG:NH2	2.01	0.75
35:5R:441:LYS:HB2	35:5R:458:THR:HG21	1.68	0.75
40:6F:43:GLU:HG3	40:6F:55:THR:O	1.86	0.75
11:6Q:81:LYS:HD2	11:6Q:161:ARG:HH21	1.50	0.75
35:6R:323:LEU:HD23	45:CN:276:ARG:HH11	1.48	0.75
35:7R:469:LYS:HE2	35:7R:472:GLU:HA	1.68	0.75
44:AA:332:ILE:HG23	44:AA:351:PHE:HD2	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:202:ILE:HD12	45:AF:300:MET:HG2	1.69	0.75
45:AL:376:GLU:HG3	45:AL:380:ARG:HH21	1.50	0.75
44:BA:326:LYS:CD	45:BD:220:PRO:HD2	2.01	0.75
44:BE:141:VAL:HG22	44:BE:187:SER:HA	1.68	0.75
44:BK:175:PRO:HA	44:BK:390:ARG:HH22	1.50	0.75
44:CK:271:SER:N	44:CK:377:MET:SD	2.58	0.75
44:DA:23:LEU:HD11	44:DA:361:THR:HG23	1.68	0.75
45:DF:66:MET:HE1	45:DF:148:GLY:HA2	1.66	0.75
44:DI:206:ASN:OD1	44:DI:207:GLU:N	2.18	0.75
44:DK:209:ILE:HG12	44:DK:302:MET:HE2	1.68	0.75
44:DM:178:SER:HB2	44:DM:183:GLU:OE2	1.85	0.75
44:EA:202:VAL:HA	44:EA:268:MET:O	1.86	0.75
45:ED:7:ILE:CD1	45:ED:120:VAL:HG22	2.15	0.75
44:EE:35:GLN:OE1	44:EE:35:GLN:N	2.16	0.75
44:EG:63:PRO:HG2	44:EG:86:LEU:HG	1.66	0.75
45:EL:134:GLN:CB	45:EL:165:GLU:HB2	2.16	0.75
44:FA:317:MET:HG3	44:FA:353:VAL:HA	1.65	0.75
45:FB:420:SER:O	45:FB:424:GLN:N	2.18	0.75
44:FG:88:HIS:CE1	44:FG:90:GLU:HG2	2.20	0.75
45:FH:5:VAL:HG12	45:FH:62:ARG:HD3	1.68	0.75
45:FH:86:ARG:HD2	45:GH:281:TYR:CB	2.16	0.75
45:FL:313:ALA:O	45:FL:350:LYS:N	2.19	0.75
45:FN:168:SER:O	45:FN:202:ILE:N	2.19	0.75
44:GA:265:ILE:CD1	44:GA:435:VAL:HG21	2.14	0.75
45:GB:404:ASP:OD1	45:GB:407:GLU:HG3	1.85	0.75
45:GD:5:VAL:HG12	45:GD:62:ARG:CD	2.15	0.75
44:GM:409:VAL:HG21	44:GM:415:GLU:OE1	1.85	0.75
44:HA:256:GLN:HB2	44:HA:260:VAL:HG23	1.66	0.75
45:HB:405:GLU:HG2	45:HB:406:MET:HE2	1.66	0.75
44:HC:257:THR:HA	45:HF:397:TRP:CZ3	2.20	0.75
45:HD:99:ASN:HA	45:HD:142:GLY:HA3	1.68	0.75
44:HI:203:MET:HG3	44:HI:384:ILE:HD11	1.67	0.75
45:HJ:302:ALA:HB3	45:HJ:377:MET:CE	2.16	0.75
45:HL:203:ASP:OD2	45:HL:302:ALA:N	2.19	0.75
45:HL:375:GLN:HE22	45:HL:423:GLN:HB3	1.50	0.75
45:HN:251:ARG:O	45:HN:255:VAL:HG23	1.86	0.75
44:IC:179:THR:HG21	46:ID:501:GTP:H3'	1.68	0.75
44:IE:51:THR:HG21	44:IE:243:ARG:HD3	1.67	0.75
45:IF:262:ARG:NH1	45:IF:421:GLU:OE1	2.18	0.75
45:IJ:258:ILE:HD11	45:IJ:266:PHE:HZ	1.49	0.75
44:IK:332:ILE:HD11	44:IK:351:PHE:CD2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:47:ASP:OD1	44:IM:50:ASN:HB3	1.86	0.75
45:IN:199:CYS:O	45:IN:266:PHE:N	2.19	0.75
45:JB:40:SER:OG	45:JB:43:GLN:OE1	2.03	0.75
45:JB:309:ARG:N	45:JB:372:THR:OG1	2.18	0.75
44:JI:143:GLY:HA3	46:JI:501:GTP:O2B	1.85	0.75
45:JN:105:HIS:CD2	45:JN:150:LEU:HB2	2.21	0.75
45:JN:191:GLN:O	45:JN:195:ASN:ND2	2.17	0.75
45:JN:253:LEU:O	45:JN:257:LEU:N	2.19	0.75
45:KB:267:MET:HE1	45:KB:299:MET:HG3	1.66	0.75
45:KD:164:MET:CE	45:KD:196:ALA:HA	2.15	0.75
44:KK:335:ILE:HA	44:KK:338:LYS:HE3	1.66	0.75
45:KL:210:ILE:HG13	45:KL:214:THR:HG21	1.67	0.75
44:KM:102:ASN:ND2	44:KM:105:ARG:HG3	2.00	0.75
45:KN:186:THR:HA	45:KN:189:VAL:CB	2.14	0.75
45:MH:330:MET:SD	45:MH:349:ILE:HG21	2.25	0.75
45:MN:7:ILE:HB	45:MN:135:ILE:CD1	2.15	0.75
44:NC:332:ILE:HD12	44:NC:351:PHE:CD2	2.20	0.75
44:NE:60:LYS:NZ	44:OE:282:TYR:O	2.13	0.75
45:NF:88:ASP:OD2	45:OF:278:SER:OG	2.02	0.75
44:NI:129:CYS:HB2	44:NI:132:LEU:HD21	1.69	0.75
45:NL:388:MET:HA	45:NL:391:ARG:HD3	1.67	0.75
44:NM:215:ARG:NH2	44:NM:299:ALA:O	2.19	0.75
44:OA:178:SER:HB2	45:OB:347:ASN:OD1	1.85	0.75
44:OC:265:ILE:HG23	44:OC:432:TYR:CE1	2.19	0.75
44:OE:323:VAL:O	44:OE:355:ILE:HG21	1.87	0.75
45:OF:276:ARG:NH1	45:OF:279:GLN:OE1	2.20	0.75
45:OL:44:LEU:HD23	45:OL:47:ILE:HB	1.68	0.75
45:PB:52:ASN:ND2	45:PB:62:ARG:HD2	2.01	0.75
44:PC:88:HIS:HA	44:QC:283:HIS:ND1	2.01	0.75
44:PE:2:ARG:HD3	44:PE:242:LEU:HD23	1.66	0.75
44:PI:209:ILE:HG22	44:PI:227:LEU:HD22	1.68	0.75
44:PK:308:ARG:HG3	44:PK:309:HIS:HD2	1.50	0.75
45:PN:304:ASP:OD1	45:PN:306:ARG:N	2.19	0.75
45:QD:215:LEU:HD11	45:QD:228:LEU:HD11	1.67	0.75
44:QI:204:LEU:HD23	44:QI:302:MET:HG2	1.68	0.75
45:QN:175:VAL:HG22	45:QN:205:GLU:OE1	1.85	0.75
44:RE:89:PRO:HG3	44:SE:280:LYS:HB3	1.69	0.75
45:RH:69:GLU:HG2	45:RH:70:PRO:HD2	1.68	0.75
45:RL:146:GLY:O	45:RL:149:THR:HG22	1.87	0.75
44:RM:334:THR:HG22	44:RM:338:LYS:HZ2	1.48	0.75
44:SG:439:THR:HG21	45:SH:390:ARG:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:34:GLY:O	45:SH:58:ARG:HA	1.85	0.75
44:SI:75:ILE:HG23	44:SI:92:LEU:HB3	1.67	0.75
45:SJ:178:THR:HB	45:SJ:181:GLU:HG3	1.67	0.75
45:SL:52:ASN:O	45:SL:60:VAL:N	2.16	0.75
44:SM:55:GLU:OE1	44:SM:61:HIS:NE2	2.15	0.75
44:TE:123:ARG:NH1	44:TE:127:ASP:OD2	2.19	0.75
45:TF:121:ARG:HD2	45:TF:158:GLU:OE1	1.85	0.75
45:TJ:3:GLU:HB3	45:TJ:49:VAL:HA	1.68	0.75
45:TN:30:ILE:HD13	45:TN:36:TYR:HA	1.68	0.75
45:UF:217:LEU:CD1	45:UF:220:PRO:HG3	2.14	0.75
45:UF:248:SER:CA	45:UF:252:LYS:HD2	2.17	0.75
44:UG:212:ILE:HD12	44:UG:300:ASN:HA	1.66	0.75
44:UI:269:LEU:HD12	44:UI:303:ALA:HB3	1.68	0.75
45:UL:118:ASP:HA	45:UL:121:ARG:NH1	2.01	0.75
44:VA:236:SER:O	44:VA:240:ALA:N	2.20	0.75
45:VB:2:ARG:HH22	45:VB:240:LEU:HG	1.51	0.75
44:VG:102:ASN:HD21	44:VG:411:GLU:HG3	1.51	0.75
45:VL:113:ILE:HA	45:VL:116:VAL:HG12	1.68	0.75
45:VL:398:TYR:O	45:VL:403:MET:HB3	1.85	0.75
45:VN:27:GLU:O	45:VN:43:GLN:NE2	2.19	0.75
44:WC:317:MET:CE	44:WC:332:ILE:HD11	2.15	0.75
45:WD:173:PRO:CG	45:WD:380:ARG:HD3	2.16	0.75
45:WF:7:ILE:HB	45:WF:135:ILE:HD12	1.68	0.75
44:WG:38:SER:O	44:WG:41:THR:N	2.19	0.75
45:WH:42:LEU:HA	45:WH:45:GLU:HG3	1.68	0.75
45:WJ:406:MET:O	45:WJ:409:THR:OG1	2.01	0.75
45:WN:232:ALA:HB1	45:WN:268:ILE:HD12	1.65	0.75
5:1D:35:LYS:HZ3	44:DG:84:ARG:HD3	1.51	0.75
26:2R:193:TYR:HB2	44:AG:39:ASP:HB2	1.68	0.75
39:5I:93:ASP:OD1	44:JA:431:ASP:HA	1.86	0.75
35:7R:70:ARG:HA	35:7R:70:ARG:HH11	1.51	0.75
35:7R:119:TYR:O	35:7R:127:ILE:HD12	1.87	0.75
45:AB:63:ALA:O	45:AB:86:ARG:NH2	2.18	0.75
45:AB:267:MET:HE1	45:AB:371:SER:H	1.50	0.75
45:AF:318:ARG:NH2	45:AF:364:ALA:HB3	2.01	0.75
44:AM:234:VAL:O	44:AM:237:SER:OG	2.03	0.75
44:BC:52:PHE:CE1	44:BC:239:THR:HG21	2.21	0.75
45:BD:102:ALA:HB1	45:BD:401:GLU:HB2	1.67	0.75
45:BD:217:LEU:HD11	45:BD:220:PRO:HG3	1.68	0.75
45:BH:153:SER:HA	45:BH:195:ASN:ND2	2.01	0.75
45:BN:52:ASN:HB2	45:BN:60:VAL:HG13	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:186:THR:HA	45:CB:415:MET:HE3	1.67	0.75
45:CD:105:HIS:CD2	45:CD:150:LEU:HB2	2.21	0.75
45:CF:148:GLY:O	45:CF:152:ILE:HG12	1.86	0.75
44:CK:8:HIS:CD2	44:CK:138:PHE:HB2	2.20	0.75
45:CN:240:LEU:HD12	45:CN:249:ASP:CA	2.15	0.75
45:DB:421:GLU:HA	45:DB:424:GLN:OE1	1.86	0.75
45:DD:334:GLN:HA	45:DD:341:PHE:HE2	1.51	0.75
45:DF:183:TYR:O	45:DF:186:THR:HG22	1.86	0.75
44:DG:259:LEU:HB3	44:DG:268:MET:CE	2.15	0.75
45:DN:135:ILE:O	45:DN:167:PHE:N	2.17	0.75
45:EF:207:LEU:HD22	45:EF:228:LEU:HD12	1.68	0.75
45:EH:342:VAL:HG13	45:EH:345:ILE:HG22	1.68	0.75
45:EL:139:LEU:HD13	45:EL:168:SER:HB3	1.68	0.75
45:EN:254:ALA:HA	45:EN:258:ILE:HD13	1.67	0.75
45:FB:68:LEU:HG	45:FB:96:GLY:H	1.50	0.75
45:FF:207:LEU:HD22	45:FF:228:LEU:HD23	1.66	0.75
44:FI:404:PHE:CE2	45:FJ:259:PRO:HA	2.21	0.75
44:FK:188:ILE:HG23	44:FK:425:LEU:HD11	1.67	0.75
44:GA:226:ASN:OD1	44:GA:227:LEU:N	2.20	0.75
45:GB:377:MET:SD	45:GB:380:ARG:HD2	2.25	0.75
45:GD:159:TYR:HB3	45:GD:162:ARG:CG	2.16	0.75
45:GD:316:LEU:CB	45:GD:366:THR:HB	2.15	0.75
45:GJ:52:ASN:OD1	45:GJ:62:ARG:NH2	2.19	0.75
45:GJ:286:VAL:HG22	45:GJ:287:PRO:HD3	1.67	0.75
44:GK:217:LEU:HD21	44:GK:368:LEU:HD22	1.68	0.75
44:HE:256:GLN:O	45:HH:397:TRP:NE1	2.20	0.75
44:HE:396:ASP:OD1	44:HE:422:ARG:NH1	2.18	0.75
45:HN:139:LEU:HD22	45:HN:188:SER:OG	1.87	0.75
44:IA:119:LEU:HD12	44:IA:123:ARG:HH12	1.50	0.75
45:IB:286:VAL:HG22	45:IB:289:LEU:HD12	1.69	0.75
44:IG:172:TYR:HB3	44:IG:173:PRO:HD2	1.69	0.75
44:IG:284:GLU:HG3	44:IG:286:LEU:CD2	2.14	0.75
45:IL:213:ARG:HH21	45:IL:214:THR:HG22	1.50	0.75
44:JM:404:PHE:CE1	45:JN:259:PRO:HA	2.21	0.75
44:KA:100:ALA:HB1	45:KB:252:LYS:HA	1.66	0.75
45:KB:239:CYS:SG	45:KB:248:SER:N	2.60	0.75
44:KC:177:VAL:HG21	45:KD:327:ASP:HB3	1.69	0.75
44:KE:195:LEU:HD13	44:KE:428:LEU:HD11	1.67	0.75
45:KF:116:VAL:HA	45:KF:119:VAL:HG12	1.68	0.75
44:KG:384:ILE:O	44:KG:387:VAL:HG12	1.86	0.75
44:MC:111:GLY:HA3	44:MC:149:LEU:HD21	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:262:TYR:HB3	44:ME:263:PRO:HD2	1.66	0.75
45:MJ:293:MET:HE2	45:MJ:367:PHE:HB2	1.67	0.75
45:MJ:334:GLN:HB2	45:MJ:349:ILE:HD11	1.66	0.75
44:MM:319:TYR:HD2	44:MM:323:VAL:HG11	1.50	0.75
44:NC:408:TYR:HB3	44:NC:413:MET:HE1	1.68	0.75
45:NF:235:GLY:HA2	45:NF:318:ARG:HH21	1.51	0.75
45:NH:55:THR:HG21	45:OH:284:LEU:HD23	1.67	0.75
44:NM:275:ILE:HA	44:NM:368:LEU:HD13	1.67	0.75
44:NM:332:ILE:HA	44:NM:335:ILE:HG12	1.69	0.75
45:OB:341:PHE:HD2	45:OB:348:ASN:HD21	1.33	0.75
44:OC:315:CYS:SG	44:OC:379:SER:OG	2.44	0.75
45:OD:344:TRP:CE3	45:OD:345:ILE:HG23	2.21	0.75
45:OH:16:ILE:HD11	48:OH:501:GDP:N2	2.01	0.75
45:OJ:173:PRO:HG3	45:OJ:380:ARG:HD3	1.69	0.75
45:PD:271:ALA:HB2	45:PD:365:VAL:H	1.50	0.75
44:PE:31:GLN:NE2	44:PE:33:ASP:OD2	2.20	0.75
45:PF:248:SER:HA	45:PF:252:LYS:HD3	1.68	0.75
45:QD:350:LYS:CD	44:QE:180:ALA:HA	2.15	0.75
44:QI:93:ILE:HD11	44:QI:121:ARG:HG3	1.67	0.75
45:QJ:1:MET:O	45:QJ:2:ARG:HG2	1.86	0.75
45:RB:240:LEU:HD12	45:RB:249:ASP:HA	1.68	0.75
45:RF:4:ILE:HG23	45:RF:131:GLN:HE21	1.51	0.75
45:RL:116:VAL:HG22	45:RL:120:VAL:HG23	1.66	0.75
45:RL:116:VAL:O	45:RL:120:VAL:HG23	1.86	0.75
44:RM:391:LEU:O	44:RM:395:PHE:N	2.19	0.75
44:SE:141:VAL:HG12	44:SE:171:ILE:O	1.86	0.75
44:SG:298:PRO:HA	44:SG:301:MET:HE3	1.68	0.75
45:SL:314:SER:HA	45:SL:350:LYS:HB3	1.68	0.75
45:SN:148:GLY:O	45:SN:152:ILE:HG12	1.85	0.75
45:TD:312:THR:O	45:TD:370:ASN:N	2.11	0.75
45:TH:87:PRO:HA	45:TH:90:PHE:HD2	1.51	0.75
45:TH:247:ASN:HD22	44:TI:73:THR:HB	1.49	0.75
45:TH:420:SER:O	45:TH:423:GLN:NE2	2.16	0.75
44:TM:282:TYR:OH	44:TM:370:LYS:O	2.01	0.75
45:TN:191:GLN:HG3	45:TN:195:ASN:OD1	1.87	0.75
44:UA:141:VAL:HG12	44:UA:171:ILE:O	1.86	0.75
45:UB:237:THR:HG23	45:UB:241:ARG:NH2	2.00	0.75
44:UC:328:VAL:O	44:UC:332:ILE:N	2.12	0.75
44:UG:208:ALA:HB2	44:UG:304:LYS:HE3	1.67	0.75
45:UH:3:GLU:HG3	45:UH:62:ARG:HH12	1.51	0.75
45:UL:133:PHE:N	45:UL:163:ILE:O	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:330:MET:CE	45:UL:349:ILE:HB	2.16	0.75
45:UN:68:LEU:O	45:UN:96:GLY:N	2.20	0.75
45:UN:182:PRO:HG2	45:UN:388:MET:HE3	1.66	0.75
44:VA:329:ASN:HB3	45:VD:175:VAL:HG11	1.68	0.75
45:VH:183:TYR:OH	45:VH:388:MET:O	2.04	0.75
44:WA:11:GLN:HB3	46:WA:501:GTP:O1A	1.86	0.75
45:WH:325:GLU:O	45:WH:329:GLN:N	2.14	0.75
45:WJ:328:GLU:O	45:WJ:332:ASN:N	2.19	0.75
44:WK:1:MET:O	44:WK:131:GLY:HA3	1.86	0.75
45:WL:153:SER:HA	45:WL:195:ASN:HD22	1.51	0.75
44:WM:143:GLY:HA3	46:WM:501:GTP:O2B	1.85	0.75
2:0A:101:ASN:HD21	35:7R:62:PRO:HD3	1.49	0.75
22:1L:761:TYR:OH	44:BC:219:ILE:HD12	1.86	0.75
15:1V:69:SER:OG	45:MJ:337:ASN:OD1	2.04	0.75
15:2V:106:TYR:OH	44:LE:193:SER:HA	1.85	0.75
2:3A:57:GLY:O	44:MM:79:ARG:NH1	2.05	0.75
22:3L:42:LYS:CD	45:BB:320:ARG:HH22	2.00	0.75
11:3Q:115:LYS:NZ	44:AG:196:GLU:OE2	2.17	0.75
31:4H:211:HIS:NE2	44:AK:40:LYS:HE2	2.00	0.75
37:5D:110:ARG:H	44:NM:282:TYR:H	1.31	0.75
38:5G:74:ASP:HB2	38:5G:104:MET:HB2	1.67	0.75
38:5H:31:SER:HB2	38:5H:35:LEU:HD12	1.66	0.75
35:5R:406:PRO:HB2	45:EJ:218:THR:HG22	1.68	0.75
45:AB:178:THR:HB	45:AB:181:GLU:HG3	1.66	0.75
45:AB:285:THR:CG2	45:AB:287:PRO:HD2	2.07	0.75
44:BA:68:LEU:HD21	44:BA:118:CYS:SG	2.26	0.75
44:BC:215:ARG:NH2	44:BC:300:ASN:OD1	2.19	0.75
44:BC:372:MET:HG2	44:BC:373:ARG:HD2	1.67	0.75
45:BD:132:GLY:HA3	45:BD:163:ILE:HG12	1.69	0.75
45:BF:113:ILE:HD12	45:BF:150:LEU:CD1	2.16	0.75
45:CH:12:CYS:O	45:CH:16:ILE:HG12	1.85	0.75
45:CJ:7:ILE:HD11	45:CJ:120:VAL:HG21	1.69	0.75
44:DK:147:SER:O	44:DK:151:SER:N	2.16	0.75
45:DL:68:LEU:HD21	45:DL:97:ALA:HB3	1.68	0.75
44:EA:76:ASP:OD1	44:EA:79:ARG:NH2	2.20	0.75
45:EB:232:ALA:O	45:EB:236:VAL:HG23	1.86	0.75
44:EC:320:ARG:CA	44:EC:356:ASN:HB3	2.16	0.75
45:EJ:260:PHE:HB3	45:EJ:261:PRO:HD2	1.66	0.75
44:EK:31:GLN:HG2	44:EK:32:PRO:HG2	1.69	0.75
45:FF:178:THR:OG1	45:FF:181:GLU:HG3	1.86	0.75
44:FK:36:MET:HB3	44:FK:37:PRO:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:309:ARG:NH1	45:FL:342:VAL:HA	2.02	0.75
45:GF:39:ASP:N	45:GF:43:GLN:OE1	2.19	0.75
45:GH:342:VAL:HG23	45:GH:345:ILE:HG22	1.65	0.75
44:GI:105:ARG:NH2	44:GI:110:ILE:HG21	2.02	0.75
44:GK:210:TYR:HB3	45:GL:324:LYS:HD2	1.67	0.75
45:HB:375:GLN:NE2	45:HB:426:GLN:OE1	2.18	0.75
45:HJ:100:ASN:ND2	45:HJ:401:GLU:OE1	2.19	0.75
44:HK:284:GLU:HG3	44:HK:286:LEU:HD22	1.67	0.75
45:IB:203:ASP:OD2	45:IB:377:MET:HE1	1.86	0.75
44:IM:362:VAL:HG23	44:IM:368:LEU:HB2	1.68	0.75
44:JE:11:GLN:NE2	45:JF:245:GLN:O	2.20	0.75
45:JF:248:SER:HB2	45:JF:252:LYS:HD2	1.68	0.75
45:JH:67:ASP:HB3	45:JH:73:MET:SD	2.27	0.75
44:JM:344:VAL:HG12	44:JM:347:CYS:SG	2.27	0.75
44:KA:14:ILE:HD11	44:KA:69:ASP:HB2	1.68	0.75
45:KB:282:ARG:NH2	45:KB:292:GLN:OE1	2.19	0.75
44:KG:181:VAL:HG12	45:KH:256:ASN:OD1	1.87	0.75
45:KH:31:ASP:OD2	45:KH:35:THR:HG22	1.87	0.75
45:KL:201:VAL:HG11	45:KL:374:ILE:HD11	1.67	0.75
44:LC:246:GLY:HA2	44:LC:357:TYR:CD2	2.21	0.75
45:LJ:238:CYS:SG	45:LJ:318:ARG:HD3	2.26	0.75
44:LK:325:PRO:HG2	45:LN:222:TYR:CE1	2.22	0.75
45:MH:257:LEU:HA	45:MH:312:THR:HG21	1.67	0.75
44:MI:69:ASP:OD1	44:MI:70:LEU:N	2.19	0.75
44:MK:164:LYS:HE3	44:MK:164:LYS:HA	1.67	0.75
45:ML:178:THR:HG22	45:ML:180:VAL:H	1.50	0.75
44:NC:205:ASP:OD1	44:NC:303:ALA:HA	1.84	0.75
44:NG:151:SER:O	44:NG:155:GLU:N	2.15	0.75
45:NJ:42:LEU:HD13	45:NJ:356:ILE:HD11	1.68	0.75
45:NJ:86:ARG:HA	45:OJ:281:TYR:CD2	2.21	0.75
44:NK:269:LEU:HG	44:NK:301:MET:CE	2.16	0.75
44:OC:286:LEU:N	44:OC:290:GLU:OE2	2.20	0.75
45:OD:12:CYS:HB3	45:OD:138:SER:HB2	1.68	0.75
45:OF:45:GLU:OE1	45:OF:46:ARG:HG2	1.86	0.75
45:OL:32:PRO:HG3	45:OL:81:PHE:CE2	2.22	0.75
45:ON:253:LEU:O	45:ON:257:LEU:HD13	1.85	0.75
44:PC:324:VAL:HG12	44:PC:326:LYS:HG3	1.68	0.75
44:PE:21:TRP:O	44:PE:25:CYS:N	2.18	0.75
45:PL:318:ARG:NH1	45:PL:358:PRO:HG3	2.02	0.75
44:QA:329:ASN:HB3	45:QB:175:VAL:HG12	1.68	0.75
44:QC:284:GLU:HG3	44:QC:286:LEU:HD22	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:204:ASN:OD1	48:QF:501:GDP:O2'	2.03	0.75
44:QG:71:GLU:OE1	44:QG:73:THR:N	2.19	0.75
45:QJ:237:THR:OG1	45:QJ:241:ARG:NH2	2.16	0.75
45:QL:97:ALA:HB3	45:QL:143:THR:HB	1.68	0.75
44:QM:306:ASP:HB3	44:QM:309:HIS:ND1	2.01	0.75
45:RD:222:TYR:HD1	45:RD:225:LEU:HD12	1.50	0.75
44:RE:136:LEU:HD22	44:RE:167:LEU:HB2	1.67	0.75
44:RE:237:SER:OG	44:RE:320:ARG:NH1	2.16	0.75
44:RG:290:GLU:HA	44:RG:293:ASN:OD1	1.86	0.75
45:RL:135:ILE:HG13	45:RL:152:ILE:HD11	1.68	0.75
44:RM:320:ARG:HD3	44:RM:374:ALA:HB3	1.68	0.75
45:RN:152:ILE:HG23	45:RN:164:MET:SD	2.26	0.75
45:SF:255:VAL:HA	44:SG:407:TRP:CZ3	2.21	0.75
44:SK:21:TRP:CH2	44:SK:63:PRO:HB3	2.22	0.75
44:TA:168:GLY:N	44:TA:200:VAL:O	2.18	0.75
45:TD:337:ASN:HB3	45:TD:340:TYR:HD2	1.51	0.75
45:TJ:32:PRO:HG3	45:TJ:81:PHE:CE2	2.21	0.75
45:TL:60:VAL:HG21	45:TL:86:ARG:CD	2.15	0.75
45:TL:174:LYS:HE3	45:TL:205:GLU:HG3	1.68	0.75
45:TN:55:THR:CA	45:TN:87:PRO:HD2	2.17	0.75
45:UB:87:PRO:HA	45:UB:90:PHE:HD2	1.50	0.75
45:UB:295:ASP:HB3	45:UB:298:ASN:CB	2.16	0.75
44:UC:213:CYS:HA	44:UC:217:LEU:HD12	1.66	0.75
44:UC:247:ALA:HB3	44:UC:355:ILE:HB	1.68	0.75
45:UD:372:THR:HA	45:UD:422:TYR:CE2	2.20	0.75
44:UG:209:ILE:CD1	44:UG:302:MET:HG3	2.15	0.75
45:UH:5:VAL:HG22	45:UH:133:PHE:CE1	2.21	0.75
44:UK:175:PRO:O	44:UK:394:LYS:NZ	2.18	0.75
44:UM:327:ASP:O	44:UM:331:SER:N	2.19	0.75
44:VA:36:MET:HB3	44:VA:61:HIS:NE2	2.02	0.75
45:VH:227:HIS:O	45:VH:230:SER:OG	2.00	0.75
45:VH:294:PHE:HD2	45:VH:333:VAL:HG11	1.50	0.75
44:VI:102:ASN:HB3	44:VI:105:ARG:HB2	1.67	0.75
44:VM:89:PRO:HG2	44:WM:280:LYS:HG3	1.68	0.75
44:VM:174:SER:CB	44:VM:207:GLU:HB2	2.17	0.75
44:WA:9:VAL:HA	44:WA:14:ILE:HD11	1.68	0.75
44:WA:419:SER:O	44:WA:423:GLU:HG3	1.87	0.75
45:WB:153:SER:O	45:WB:157:GLU:N	2.19	0.75
45:WD:209:ASP:OD1	45:WD:213:ARG:HD3	1.87	0.75
44:WE:222:PRO:HG2	45:WF:324:LYS:HE3	1.68	0.75
44:WI:175:PRO:HG2	44:WI:176:GLN:OE1	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:290:THR:HG21	45:WJ:329:GLN:OE1	1.86	0.75
44:WK:242:LEU:HD11	44:WK:252:ILE:HG13	1.67	0.75
4:1C:43:TYR:OH	45:DL:53:GLU:OE1	2.03	0.75
34:4F:222:HIS:ND1	45:HN:41:ASP:OD1	2.14	0.75
37:5C:110:ARG:HH21	44:NI:281:ALA:HA	1.46	0.75
35:7R:255:VAL:HG21	44:CA:41:THR:HG23	1.69	0.75
44:AA:221:ARG:NE	45:AB:325:GLU:OE2	2.15	0.75
44:AK:210:TYR:CE1	45:AL:324:LYS:HE2	2.20	0.75
45:BL:103:LYS:HA	45:BL:107:THR:HG22	1.69	0.75
45:BN:73:MET:O	45:BN:76:VAL:N	2.18	0.75
45:BN:314:SER:HA	45:BN:350:LYS:HB3	1.66	0.75
44:CE:40:LYS:HD3	44:CE:41:THR:H	1.50	0.75
44:CI:89:PRO:HG3	44:DI:280:LYS:HD2	1.68	0.75
44:CM:276:ILE:HD13	44:CM:281:ALA:HA	1.67	0.75
45:CN:73:MET:CE	45:CN:92:PHE:HB3	2.16	0.75
45:DB:260:PHE:CE1	44:DC:403:ALA:HA	2.22	0.75
44:DM:90:GLU:HG3	44:DM:121:ARG:HH22	1.49	0.75
44:EA:295:ALA:HB1	44:EA:377:MET:SD	2.25	0.75
45:EB:323:THR:HG21	44:EC:224:TYR:CE1	2.21	0.75
45:EF:217:LEU:HD11	45:EF:220:PRO:HG3	1.66	0.75
44:EG:156:ARG:O	44:EG:159:VAL:HG12	1.87	0.75
44:EG:363:VAL:HG22	44:EG:364:PRO:HD2	1.68	0.75
44:EG:434:GLU:O	44:EG:437:ILE:HG12	1.86	0.75
44:EM:54:SER:HB3	44:EM:64:ARG:NH2	2.01	0.75
45:EN:215:LEU:HD13	45:EN:275:SER:HA	1.69	0.75
44:FA:174:SER:HB3	44:FA:177:VAL:HB	1.67	0.75
45:FB:55:THR:HG23	45:GB:283:ALA:HA	1.67	0.75
45:FB:86:ARG:HB2	45:FB:89:ASN:ND2	2.00	0.75
45:FB:318:ARG:HE	45:FB:358:PRO:HG3	1.52	0.75
44:FG:205:ASP:OD2	44:FG:304:LYS:N	2.12	0.75
44:FK:141:VAL:HG22	44:FK:187:SER:HA	1.68	0.75
44:FM:13:GLY:HA2	44:FM:16:VAL:HG12	1.69	0.75
45:FN:288:GLU:O	45:FN:291:GLN:NE2	2.18	0.75
45:GB:136:THR:HG22	45:GB:167:PHE:CZ	2.22	0.75
44:GI:104:ALA:HB2	44:GI:413:MET:HE1	1.66	0.75
45:GL:7:ILE:HB	45:GL:135:ILE:CD1	2.16	0.75
44:HA:14:ILE:CD1	44:HA:69:ASP:HB2	2.16	0.75
44:HE:259:LEU:CG	44:HE:316:SER:HB2	2.15	0.75
44:IA:98:ASP:OD1	44:IA:99:ALA:N	2.20	0.75
44:IE:254:GLU:HG2	45:IH:98:GLY:HA2	1.69	0.75
44:II:60:LYS:HZ3	44:II:62:VAL:HB	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:292:GLN:OE1	45:IJ:298:ASN:HB2	1.87	0.75
44:JA:68:LEU:HD11	44:JA:118:CYS:SG	2.27	0.75
45:JB:209:ASP:OD1	45:JB:210:ILE:N	2.19	0.75
44:JE:66:VAL:HG11	44:JE:122:ILE:HD11	1.68	0.75
45:JF:27:GLU:O	45:JF:43:GLN:NE2	2.18	0.75
44:JK:274:PRO:HD3	44:JK:374:ALA:HA	1.69	0.75
44:KG:392:ASP:OD2	44:KG:422:ARG:NH1	2.19	0.75
45:KH:143:THR:N	48:KH:501:GDP:O2B	2.18	0.75
44:KK:239:THR:HG23	44:KK:243:ARG:HE	1.51	0.75
45:LB:274:THR:HG23	45:LB:282:ARG:HD3	1.68	0.75
45:LD:165:GLU:OE2	45:LD:250:LEU:HD11	1.85	0.75
45:LL:379:LYS:O	45:LL:383:GLU:N	2.17	0.75
45:LN:15:GLN:HB3	45:LN:226:ASN:HD21	1.52	0.75
44:MC:205:ASP:OD2	44:MC:304:LYS:N	2.19	0.75
45:MD:60:VAL:HG21	45:MD:86:ARG:HD2	1.68	0.75
45:MD:257:LEU:HD21	45:MD:314:SER:HB3	1.69	0.75
44:MG:205:ASP:OD1	44:MG:303:ALA:HA	1.84	0.75
45:MH:302:ALA:HB3	45:MH:377:MET:HE1	1.68	0.75
44:MI:70:LEU:HD13	44:MI:110:ILE:HD11	1.68	0.75
44:MM:71:GLU:OE1	44:MM:73:THR:OG1	2.03	0.75
44:MM:316:SER:HB2	44:MM:352:LYS:HE2	1.68	0.75
44:NA:326:LYS:HB3	45:ND:220:PRO:HD2	1.69	0.75
45:NH:199:CYS:O	45:NH:265:PHE:HA	1.86	0.75
45:NN:86:ARG:NH2	45:ON:281:TYR:HB2	2.02	0.75
45:OF:2:ARG:NH2	45:OF:240:LEU:O	2.17	0.75
44:OI:201:ALA:O	44:OI:268:MET:N	2.16	0.75
45:OJ:292:GLN:HA	45:OJ:295:ASP:OD2	1.86	0.75
44:OK:423:GLU:O	44:OK:427:ALA:N	2.16	0.75
45:ON:133:PHE:N	45:ON:163:ILE:O	2.18	0.75
44:PG:34:GLY:O	44:PG:60:LYS:HA	1.87	0.75
44:PG:105:ARG:O	44:PG:110:ILE:HG12	1.86	0.75
45:PJ:130:LEU:HD11	45:PJ:133:PHE:CE1	2.21	0.75
44:QA:248:LEU:HD23	44:QA:354:GLY:HA2	1.68	0.75
45:QF:16:ILE:HD13	45:QF:226:ASN:OD1	1.86	0.75
45:QL:7:ILE:HB	45:QL:135:ILE:CD1	2.17	0.75
44:QM:13:GLY:O	44:QM:17:GLY:N	2.18	0.75
45:RD:285:THR:HB	45:RD:287:PRO:HD2	1.66	0.75
45:RF:286:VAL:HG21	44:RG:221:ARG:HH12	1.49	0.75
44:RI:212:ILE:CD1	44:RI:300:ASN:HA	2.17	0.75
45:SD:121:ARG:NH2	45:SD:158:GLU:OE2	2.19	0.75
45:SH:81:PHE:HA	45:SH:84:LEU:HD13	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:76:ASP:OD1	44:SI:79:ARG:NH2	2.20	0.75
44:SK:88:HIS:HE1	44:SK:90:GLU:HG2	1.52	0.75
44:SK:315:CYS:HA	44:SK:379:SER:HA	1.67	0.75
44:SM:295:ALA:HB2	44:SM:375:VAL:CG1	2.17	0.75
44:TA:91:GLN:HG3	44:TA:121:ARG:HD2	1.69	0.75
44:TA:264:ARG:NH2	44:TA:431:ASP:OD2	2.14	0.75
45:TB:304:ASP:OD1	45:TB:306:ARG:HG2	1.86	0.75
44:TC:332:ILE:HD11	44:TC:351:PHE:HB3	1.68	0.75
45:TD:338:SER:O	45:TD:341:PHE:N	2.18	0.75
45:TF:19:LYS:CE	45:TF:226:ASN:HB3	2.16	0.75
45:TH:134:GLN:HA	45:TH:165:GLU:HB2	1.69	0.75
44:TI:434:GLU:O	44:TI:437:ILE:HG12	1.86	0.75
44:TK:169:PHE:CE1	44:TK:202:VAL:HG21	2.22	0.75
44:TM:312:TYR:CE1	44:TM:381:SER:HB3	2.21	0.75
44:UM:141:VAL:HG22	44:UM:187:SER:HA	1.69	0.75
45:VF:101:TRP:CD1	45:VF:105:HIS:HB2	2.21	0.75
45:VH:284:LEU:HB3	45:VH:363:MET:CE	2.17	0.75
44:VI:134:GLY:HA2	44:VI:166:LYS:HZ3	1.50	0.75
44:VK:22:GLU:HA	44:VK:25:CYS:SG	2.27	0.75
44:VM:56:THR:OG1	44:WM:282:TYR:O	2.03	0.75
44:WA:88:HIS:ND1	44:WA:90:GLU:HG2	2.01	0.75
44:WC:184:PRO:O	44:WC:188:ILE:N	2.14	0.75
45:WD:42:LEU:HD22	45:WD:356:ILE:CD1	2.15	0.75
44:WE:136:LEU:HD23	44:WE:167:LEU:HB2	1.68	0.75
44:WM:420:GLU:O	44:WM:423:GLU:HG2	1.87	0.75
2:0A:74:SER:HA	44:AA:219:ILE:CD1	2.17	0.75
2:0A:138:TRP:CZ3	44:AA:81:GLY:HA2	2.21	0.75
20:1J:122:ARG:NE	44:IE:279:GLU:HB3	2.01	0.75
26:1R:407:PHE:CB	44:DC:58:ALA:HB3	2.16	0.75
26:2R:503:ASP:OD2	44:EG:40:LYS:HA	1.86	0.75
27:2W:236:GLU:OE2	35:6R:6:PRO:CD	2.33	0.75
34:4F:158:GLY:O	45:IN:320:ARG:NH2	2.20	0.75
35:6R:389:ASN:H	45:EN:276:ARG:CZ	1.99	0.75
45:AD:186:THR:HG23	45:AD:187:LEU:HD12	1.66	0.75
44:AG:55:GLU:HG3	44:AG:57:GLY:H	1.52	0.75
44:AI:194:LEU:HD23	44:AI:194:LEU:O	1.87	0.75
45:BH:355:ASP:O	45:BH:356:ILE:HD13	1.87	0.75
45:BL:200:MET:HE3	45:BL:268:ILE:HG21	1.68	0.75
44:CA:258:ASN:ND2	45:CB:178:THR:HG23	2.02	0.75
44:CA:420:GLU:HA	44:CA:423:GLU:HG3	1.67	0.75
45:CB:272:PRO:O	45:CB:273:LEU:HD23	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:288:VAL:HG11	44:CE:327:ASP:HB3	1.68	0.75
44:CE:320:ARG:HH12	44:CE:360:PRO:HA	1.52	0.75
44:CG:439:THR:HB	45:CH:391:ARG:NH1	2.01	0.75
45:CH:207:LEU:HB3	45:CH:225:LEU:HD22	1.67	0.75
44:CI:276:ILE:CD1	44:CI:281:ALA:HA	2.16	0.75
45:CN:130:LEU:HD11	45:CN:133:PHE:CE1	2.22	0.75
44:DA:196:GLU:OE2	44:DA:264:ARG:NH1	2.15	0.75
45:DB:337:ASN:HB3	45:DB:340:TYR:HD2	1.51	0.75
44:DC:102:ASN:HD21	44:DC:411:GLU:HG3	1.51	0.75
45:DF:417:ASP:O	45:DF:421:GLU:N	2.16	0.75
44:DG:188:ILE:HD12	44:DG:425:LEU:CD1	2.16	0.75
45:DJ:302:ALA:HB3	45:DJ:377:MET:CE	2.17	0.75
45:DN:333:VAL:HA	45:DN:336:LYS:HB2	1.68	0.75
44:EA:201:ALA:N	44:EA:266:HIS:O	2.18	0.75
44:EC:209:ILE:HG12	44:EC:302:MET:CE	2.16	0.75
45:ED:401:GLU:HB2	45:ED:403:MET:CE	2.16	0.75
45:EH:19:LYS:HG3	45:EH:23:VAL:HG13	1.68	0.75
45:EL:315:ALA:N	45:EL:350:LYS:O	2.20	0.75
45:EN:102:ALA:HB2	45:EN:403:MET:HE1	1.68	0.75
44:FA:171:ILE:HG12	44:FA:204:LEU:HB2	1.67	0.75
44:FA:248:LEU:HD11	48:FD:502:GDP:H5''	1.67	0.75
45:FD:87:PRO:HA	45:FD:90:PHE:HD2	1.51	0.75
45:FF:334:GLN:HE22	45:FF:348:ASN:H	1.33	0.75
44:FK:4:VAL:HG23	44:FK:134:GLY:O	1.87	0.75
44:GA:273:ALA:HB1	44:GA:274:PRO:HA	1.68	0.75
44:GC:69:ASP:OD1	44:GC:71:GLU:N	2.19	0.75
44:GC:109:THR:O	44:GC:112:LYS:NZ	2.19	0.75
45:GD:311:LEU:N	45:GD:370:ASN:O	2.19	0.75
44:GE:54:SER:HB2	44:GE:64:ARG:HH21	1.49	0.75
45:GF:133:PHE:H	45:GF:164:MET:HE2	1.50	0.75
44:GI:11:GLN:NE2	45:GJ:247:ASN:OD1	2.20	0.75
45:GL:20:PHE:HA	45:GL:23:VAL:HG12	1.68	0.75
45:GL:64:ILE:HD11	45:GL:123:GLU:HG3	1.67	0.75
44:GM:406:HIS:NE2	45:GN:261:PRO:HD3	2.01	0.75
44:HA:205:ASP:OD1	44:HA:303:ALA:HA	1.87	0.75
44:HC:54:SER:HB3	44:HC:64:ARG:NH1	2.02	0.75
45:HJ:163:ILE:HD12	45:HJ:250:LEU:CD2	2.14	0.75
44:HM:235:ILE:HA	44:HM:238:LEU:CD2	2.16	0.75
44:IG:276:ILE:HD13	44:IG:281:ALA:HA	1.67	0.75
44:IM:417:GLU:O	44:IM:420:GLU:HG2	1.86	0.75
45:JB:379:LYS:HZ3	45:JB:419:VAL:HG13	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:88:HIS:CE1	44:JK:90:GLU:HG2	2.21	0.75
45:JL:8:GLN:HE21	45:JL:65:LEU:HG	1.50	0.75
45:JN:260:PHE:HB2	45:JN:263:LEU:CD1	2.17	0.75
44:KA:140:SER:HA	44:KA:171:ILE:HB	1.69	0.75
45:KF:270:PHE:H	45:KF:300:MET:HE3	1.51	0.75
44:KI:174:SER:HB3	44:KI:177:VAL:O	1.86	0.75
45:KL:73:MET:O	45:KL:76:VAL:HG12	1.87	0.75
45:KL:342:VAL:HG22	45:KL:344:TRP:H	1.52	0.75
45:KN:14:ASN:HD22	45:KN:72:THR:HG21	1.51	0.75
45:LD:113:ILE:CD1	45:LD:150:LEU:HD22	2.16	0.75
44:LG:188:ILE:O	44:LG:191:THR:HG22	1.87	0.75
45:LL:109:GLY:O	45:LL:113:ILE:HG23	1.86	0.75
44:LM:191:THR:HG21	44:LM:388:PHE:CE1	2.20	0.75
45:LN:216:LYS:HB2	45:LN:275:SER:CB	2.16	0.75
44:ME:393:HIS:CB	44:ME:425:LEU:HD11	2.16	0.75
45:MH:63:ALA:O	45:MH:89:ASN:ND2	2.19	0.75
45:MH:73:MET:CE	45:MH:92:PHE:HB3	2.16	0.75
45:MH:113:ILE:HD12	45:MH:150:LEU:CD2	2.17	0.75
44:MI:221:ARG:NH2	45:MJ:322:SER:O	2.18	0.75
45:MJ:362:LYS:HE2	45:MJ:363:MET:CE	2.15	0.75
45:MN:360:GLY:O	45:MN:361:LEU:HD22	1.87	0.75
44:NC:215:ARG:NH1	44:NC:299:ALA:HB1	1.99	0.75
45:NF:3:GLU:CG	45:NF:127:CYS:HB2	2.16	0.75
44:NG:241:SER:OG	44:NG:250:VAL:O	2.04	0.75
45:NL:20:PHE:HA	45:NL:23:VAL:HG12	1.68	0.75
44:NM:7:ILE:N	44:NM:136:LEU:O	2.13	0.75
44:OA:288:VAL:HG11	44:OA:327:ASP:HB3	1.68	0.75
44:OE:104:ALA:HB2	44:OE:413:MET:HG2	1.67	0.75
44:OK:427:ALA:O	44:OK:430:LYS:HG3	1.86	0.75
44:PA:252:ILE:HA	44:PA:255:PHE:CZ	2.21	0.75
45:PD:314:SER:N	45:PD:368:VAL:O	2.14	0.75
44:PK:268:MET:HB2	44:PK:379:SER:C	2.06	0.75
44:QE:88:HIS:CE1	44:QE:90:GLU:HG2	2.22	0.75
44:QG:269:LEU:N	44:QG:379:SER:O	2.19	0.75
44:QG:310:GLY:HA3	44:QG:383:ALA:HB2	1.68	0.75
45:QH:252:LYS:HG3	44:QI:101:ASN:OD1	1.87	0.75
44:QK:191:THR:HA	44:QK:194:LEU:HG	1.68	0.75
45:RB:330:MET:SD	45:RB:351:SER:OG	2.43	0.75
45:RF:3:GLU:O	45:RF:131:GLN:HG2	1.87	0.75
44:RG:352:LYS:HZ1	45:RH:178:THR:HA	1.51	0.75
45:RJ:374:ILE:O	45:RJ:377:MET:HG2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:342:VAL:HG13	45:RL:345:ILE:HG22	1.68	0.75
44:RM:432:TYR:HA	44:RM:435:VAL:HB	1.69	0.75
45:RN:237:THR:HG23	45:RN:241:ARG:HE	1.51	0.75
44:SA:68:LEU:HD21	44:SA:118:CYS:SG	2.26	0.75
44:SA:315:CYS:HA	44:SA:379:SER:HA	1.68	0.75
45:SB:114:ASP:HA	45:SB:117:LEU:HB3	1.65	0.75
45:SB:251:ARG:HA	45:SB:254:ALA:HB3	1.69	0.75
45:SD:97:ALA:HB2	45:SD:143:THR:HB	1.69	0.75
45:SF:11:GLN:HA	45:SF:14:ASN:HD22	1.50	0.75
45:SH:193:VAL:HA	45:SH:264:HIS:NE2	2.02	0.75
45:SH:287:PRO:O	45:SH:290:THR:HG22	1.85	0.75
45:SJ:269:GLY:HA2	45:SJ:300:MET:HG2	1.67	0.75
45:SN:63:ALA:O	45:SN:89:ASN:ND2	2.19	0.75
45:SN:87:PRO:HG3	45:TN:278:SER:CB	2.14	0.75
45:TB:314:SER:HB3	45:TB:368:VAL:HG23	1.67	0.75
45:TD:116:VAL:HG22	45:TD:120:VAL:HG13	1.69	0.75
45:TF:341:PHE:HE1	45:TF:349:ILE:HD11	1.52	0.75
44:TG:392:ASP:OD1	44:TG:393:HIS:N	2.18	0.75
44:TI:352:LYS:HA	45:TJ:177:ASP:O	1.85	0.75
44:TK:2:ARG:HD3	44:TK:242:LEU:HD22	1.67	0.75
44:TK:89:PRO:HB3	44:UK:280:LYS:CD	2.15	0.75
44:TK:153:LEU:O	44:TK:157:LEU:N	2.18	0.75
44:TK:229:ARG:HH12	44:TK:366:GLY:HA2	1.51	0.75
45:TL:1:MET:SD	45:TL:2:ARG:NH1	2.56	0.75
45:TL:305:PRO:HB3	45:TL:310:TYR:OH	1.86	0.75
44:UG:101:ASN:HA	44:UG:144:GLY:HA3	1.66	0.75
44:UG:247:ALA:O	45:UH:11:GLN:NE2	2.20	0.75
45:UH:282:ARG:HH22	45:UH:288:GLU:HB3	1.51	0.75
45:UL:324:LYS:HD3	44:UM:222:PRO:CG	2.16	0.75
44:VC:317:MET:O	44:VC:318:MET:HE2	1.87	0.75
45:VF:192:LEU:O	45:VF:196:ALA:N	2.17	0.75
44:VG:104:ALA:HA	44:VG:413:MET:CE	2.16	0.75
44:VG:262:TYR:HB3	44:VG:263:PRO:HD2	1.68	0.75
44:VK:205:ASP:OD1	44:VK:303:ALA:HA	1.86	0.75
44:WA:188:ILE:HD11	44:WA:391:LEU:HB3	1.69	0.75
45:WF:286:VAL:HB	45:WF:287:PRO:HD3	1.69	0.75
44:WM:166:LYS:HD2	44:WM:197:HIS:O	1.86	0.75
4:1C:40:TYR:HA	44:DM:79:ARG:HH21	1.52	0.75
32:2I:45:LYS:HZ2	45:GH:332:ASN:HA	1.49	0.75
32:3I:206:GLN:O	44:GK:308:ARG:NH2	2.19	0.75
35:4R:246:GLN:CG	44:BE:58:ALA:HB1	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:32:ALA:N	44:OG:279:GLU:OE2	2.18	0.75
39:5J:110:LYS:NZ	45:JJ:412:GLU:OE2	2.18	0.75
35:5R:308:LYS:HD2	35:5R:328:TYR:CE1	2.21	0.75
42:8N:218:UNK:O	42:8N:222:UNK:N	2.20	0.75
45:AF:66:MET:HE1	45:AF:147:MET:HG2	1.69	0.75
45:AH:234:SER:O	45:AH:318:ARG:NH2	2.20	0.75
44:AI:311:LYS:HD2	44:AI:342:GLN:HG3	1.68	0.75
45:AN:267:MET:SD	45:AN:371:SER:OG	2.43	0.75
44:BA:60:LYS:NZ	44:BA:85:GLN:O	2.18	0.75
44:BA:103:PHE:H	44:BA:408:TYR:HE2	1.33	0.75
45:BD:143:THR:N	48:BD:502:GDP:O1B	2.19	0.75
45:BN:130:LEU:HB3	45:BN:162:ARG:HD2	1.67	0.75
45:CF:259:PRO:HA	44:CG:404:PHE:CE2	2.22	0.75
45:CH:237:THR:HG23	45:CH:241:ARG:HH21	1.51	0.75
44:CI:191:THR:OG1	44:CI:425:LEU:HD21	1.86	0.75
44:CK:257:THR:HA	45:CL:397:TRP:NE1	2.02	0.75
44:CM:152:LEU:HG	44:CM:156:ARG:HH12	1.51	0.75
45:CN:3:GLU:HB2	45:CN:49:VAL:HA	1.66	0.75
44:DA:113:GLU:O	44:DA:114:ILE:HD13	1.87	0.75
44:DA:255:PHE:O	44:DA:259:LEU:N	2.19	0.75
45:DF:330:MET:HE2	45:DF:349:ILE:HD13	1.69	0.75
45:DH:166:THR:OG1	45:DH:198:GLU:O	2.02	0.75
44:EC:133:GLN:HB3	44:EC:252:ILE:HB	1.68	0.75
44:EC:298:PRO:HA	44:EC:301:MET:HG2	1.69	0.75
45:EH:170:VAL:HG22	45:EH:171:PRO:HD2	1.67	0.75
45:EH:230:SER:HA	45:EH:233:MET:HE3	1.67	0.75
45:EN:113:ILE:HA	45:EN:116:VAL:CG1	2.16	0.75
44:FA:387:VAL:HA	44:FA:390:ARG:CG	2.17	0.75
45:FD:207:LEU:HB3	45:FD:225:LEU:HD22	1.68	0.75
44:FE:218:ASP:O	44:FE:219:ILE:HD13	1.86	0.75
44:FG:237:SER:HA	44:FG:320:ARG:NH2	2.01	0.75
44:FG:372:MET:HG3	44:FG:373:ARG:HG3	1.68	0.75
44:GA:222:PRO:HB2	44:GA:226:ASN:ND2	2.01	0.75
45:GB:45:GLU:HB3	45:GB:46:ARG:HH11	1.49	0.75
45:GD:342:VAL:HG13	45:GD:345:ILE:HG22	1.67	0.75
44:GG:269:LEU:HD12	44:GG:303:ALA:HB3	1.67	0.75
44:GI:175:PRO:HA	44:GI:390:ARG:NH1	2.01	0.75
44:GM:230:LEU:HD12	44:GM:275:ILE:HD13	1.67	0.75
45:GN:102:ALA:HB2	45:GN:403:MET:CE	2.17	0.75
45:HB:1:MET:O	45:HB:2:ARG:HG2	1.87	0.75
45:HB:287:PRO:HA	45:HB:290:THR:HG22	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:317:PHE:CA	45:HB:365:VAL:HG22	2.11	0.75
45:HF:249:ASP:OD1	45:HF:252:LYS:N	2.15	0.75
44:HG:172:TYR:HB2	44:HG:203:MET:HE1	1.67	0.75
45:HH:110:ALA:O	45:HH:113:ILE:HG22	1.86	0.75
45:HJ:163:ILE:HD13	45:HJ:251:ARG:HG2	1.69	0.75
45:HL:322:SER:O	45:HL:325:GLU:HG3	1.86	0.75
44:IA:143:GLY:HA3	46:IA:501:GTP:O2B	1.85	0.75
45:IB:290:THR:O	45:IB:293:MET:HG2	1.85	0.75
45:IJ:12:CYS:SG	45:IJ:138:SER:HB2	2.27	0.75
45:IJ:171:PRO:HG2	45:IJ:181:GLU:OE2	1.86	0.75
44:JE:407:TRP:CG	45:JF:255:VAL:HG22	2.22	0.75
45:JF:423:GLN:NE2	45:JF:426:GLN:OE1	2.20	0.75
45:JJ:341:PHE:HB3	45:JJ:348:ASN:HD21	1.52	0.75
44:JK:121:ARG:HH21	44:JK:124:LYS:HD3	1.51	0.75
44:KC:66:VAL:HG11	44:KC:122:ILE:HD11	1.67	0.75
45:KJ:41:ASP:OD1	45:KJ:42:LEU:HD12	1.87	0.75
44:LC:101:ASN:HA	44:LC:144:GLY:H	1.51	0.75
44:LC:325:PRO:O	44:LC:328:VAL:HG12	1.86	0.75
44:LC:358:GLN:OE1	44:LC:359:PRO:HD2	1.86	0.75
45:LJ:65:LEU:HD13	45:LJ:90:PHE:HE1	1.52	0.75
45:LL:295:ASP:OD2	45:LL:297:LYS:NZ	2.19	0.75
45:LN:22:GLU:HG2	45:LN:81:PHE:HD2	1.51	0.75
44:ME:310:GLY:HA3	44:ME:382:THR:OG1	1.85	0.75
44:MG:42:ILE:HB	44:MG:45:GLY:HA2	1.67	0.75
44:MM:261:PRO:HG2	44:MM:313:MET:SD	2.25	0.75
45:NB:268:ILE:HG13	45:NB:300:MET:HE3	1.69	0.75
44:NC:141:VAL:HG11	44:NC:172:TYR:HD1	1.50	0.75
44:NC:257:THR:HA	45:NF:397:TRP:CH2	2.22	0.75
44:NE:54:SER:HB3	44:NE:64:ARG:HH22	1.51	0.75
45:NH:161:ASP:OD2	45:NH:162:ARG:NH1	2.19	0.75
44:NI:306:ASP:HB3	44:NI:309:HIS:CD2	2.21	0.75
45:NL:221:THR:HG22	45:NL:224:ASP:OD2	1.87	0.75
44:NM:155:GLU:HG2	44:NM:197:HIS:ND1	2.01	0.75
45:OD:323:THR:O	45:OD:326:VAL:N	2.20	0.75
44:OE:141:VAL:HG21	44:OE:187:SER:HA	1.66	0.75
44:OE:205:ASP:OD1	44:OE:303:ALA:HA	1.87	0.75
44:OE:222:PRO:CD	45:OF:324:LYS:HG3	2.16	0.75
44:PI:88:HIS:CE1	44:PI:90:GLU:HG2	2.22	0.75
45:PL:293:MET:HG3	45:PL:367:PHE:HB2	1.68	0.75
44:QA:56:THR:OG1	44:RA:282:TYR:O	2.05	0.75
44:QA:185:TYR:CE2	44:QA:404:PHE:HB2	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:164:MET:N	45:QB:197:ASP:OD2	2.18	0.75
45:QD:11:GLN:HA	45:QD:72:THR:HG21	1.68	0.75
45:QJ:198:GLU:OE2	45:QJ:254:ALA:HB2	1.87	0.75
45:QN:188:SER:O	45:QN:192:LEU:N	2.20	0.75
44:RC:271:SER:O	44:RC:377:MET:N	2.16	0.75
44:RE:68:LEU:HD21	44:RE:118:CYS:CB	2.17	0.75
44:RG:31:GLN:HB3	44:RG:32:PRO:CD	2.17	0.75
45:RJ:414:ASN:HA	45:RJ:417:ASP:HB3	1.69	0.75
44:SA:53:PHE:CE2	44:SA:63:PRO:HG3	2.21	0.75
45:SB:91:VAL:HG21	45:SB:116:VAL:CG2	2.17	0.75
44:SG:153:LEU:O	44:SG:157:LEU:HG	1.87	0.75
44:SI:261:PRO:HG2	44:SI:313:MET:CE	2.16	0.75
44:SK:124:LYS:NZ	44:TK:297:GLU:OE2	2.17	0.75
44:SK:287:SER:O	44:SK:291:ILE:HG23	1.86	0.75
45:SN:27:GLU:OE2	45:SN:241:ARG:NH1	2.17	0.75
44:TA:288:VAL:HG22	44:TA:373:ARG:HH22	1.52	0.75
44:TC:286:LEU:HA	44:TC:290:GLU:OE2	1.87	0.75
44:TE:317:MET:HE1	44:TE:378:ILE:N	2.02	0.75
45:TF:372:THR:HA	45:TF:422:TYR:HE2	1.52	0.75
44:TG:271:SER:OG	44:TG:301:MET:HA	1.86	0.75
45:TH:247:ASN:ND2	44:TI:73:THR:HB	2.02	0.75
45:TL:55:THR:OG1	45:UL:282:ARG:O	2.03	0.75
44:TM:75:ILE:HG23	44:TM:92:LEU:HB3	1.66	0.75
45:UB:178:THR:HB	45:UB:181:GLU:CG	2.15	0.75
44:UC:169:PHE:CE2	44:UC:235:ILE:HD11	2.22	0.75
44:UK:134:GLY:HA3	44:UK:165:SER:OG	1.86	0.75
45:UN:121:ARG:O	45:UN:125:GLU:N	2.14	0.75
45:VB:162:ARG:O	45:VB:163:ILE:HD13	1.86	0.75
44:VG:426:ALA:O	44:VG:430:LYS:N	2.16	0.75
44:VM:427:ALA:HA	44:VM:430:LYS:HG2	1.68	0.75
44:WC:88:HIS:ND1	44:WC:89:PRO:HD2	2.01	0.75
44:WC:209:ILE:HA	44:WC:212:ILE:HB	1.67	0.75
44:WI:262:TYR:HB2	44:WI:265:ILE:HG22	1.67	0.75
44:WI:434:GLU:O	44:WI:437:ILE:HG12	1.86	0.75
45:WN:178:THR:HG22	45:WN:180:VAL:HG12	1.69	0.75
1:6H:382:PHE:CE1	44:FK:364:PRO:CD	2.51	0.75
4:1C:43:TYR:HB2	45:DL:48:ASN:ND2	2.00	0.75
18:1F:144:TYR:OH	45:GL:87:PRO:HB3	1.86	0.75
22:1L:549:LEU:HD21	44:BE:367:ASP:HA	1.66	0.75
12:2S:6:PRO:HD3	45:WJ:111:GLU:OE2	1.85	0.75
12:2S:107:GLN:NE2	44:MI:410:GLY:O	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:74:SER:HA	44:AM:219:ILE:HD11	1.65	0.75
11:3Q:115:LYS:HE3	44:AG:264:ARG:HD3	1.68	0.75
12:3S:17:LYS:HE3	45:WN:92:PHE:CE1	2.13	0.75
38:5E:140:ASN:HB2	45:OD:361:LEU:CD2	2.16	0.75
39:5J:113:GLN:HE22	45:JJ:410:GLU:HG2	1.51	0.75
11:5Q:60:THR:HG21	11:5Q:153:ARG:HH22	1.51	0.75
40:6F:69:LEU:HD23	40:6F:70:ASN:N	2.02	0.75
43:8R:34:UNK:O	43:8R:38:UNK:N	2.20	0.75
45:AF:52:ASN:OD1	45:AF:53:GLU:N	2.20	0.75
45:AF:309:ARG:NH2	45:AF:426:GLN:O	2.20	0.75
44:AK:55:GLU:HG3	44:AK:57:GLY:H	1.52	0.75
44:BG:407:TRP:CZ3	45:BH:255:VAL:HA	2.22	0.75
45:BJ:275:SER:HG	45:BJ:278:SER:HG	1.28	0.75
44:BK:102:ASN:CB	44:BK:105:ARG:HG3	2.13	0.75
44:BK:175:PRO:HA	44:BK:390:ARG:NH2	1.99	0.75
44:BM:237:SER:HA	44:BM:320:ARG:NH1	2.01	0.75
44:CA:340:THR:HG23	44:CA:341:ILE:HG13	1.67	0.75
44:CC:188:ILE:HD12	44:CC:425:LEU:HD11	1.67	0.75
44:CG:115:VAL:HG22	44:CG:156:ARG:HD2	1.69	0.75
44:CI:66:VAL:HG11	44:CI:122:ILE:HD11	1.68	0.75
44:DA:318:MET:N	44:DA:376:CYS:O	2.18	0.75
44:DG:36:MET:SD	44:DG:37:PRO:HD2	2.25	0.75
45:DH:173:PRO:CG	45:DH:380:ARG:HD3	2.17	0.75
44:DI:141:VAL:HG11	44:DI:172:TYR:CD1	2.22	0.75
44:DI:200:VAL:HG11	44:DI:255:PHE:HE2	1.52	0.75
44:DI:312:TYR:O	44:DI:344:VAL:HB	1.87	0.75
45:DJ:423:GLN:O	45:DJ:423:GLN:NE2	2.19	0.75
45:DL:200:MET:HE2	45:DL:266:PHE:CB	2.14	0.75
45:DL:379:LYS:O	45:DL:382:ALA:N	2.20	0.75
45:DN:87:PRO:HA	45:DN:90:PHE:HD1	1.50	0.75
44:EC:298:PRO:HB3	44:EC:307:PRO:HD2	1.69	0.75
45:ED:1:MET:O	45:ED:2:ARG:HG2	1.87	0.75
45:EJ:113:ILE:HD12	45:EJ:154:LYS:HE2	1.67	0.75
44:EK:384:ILE:O	44:EK:387:VAL:HG12	1.87	0.75
45:EN:22:GLU:HG2	45:EN:81:PHE:CG	2.21	0.75
45:EN:398:TYR:HD2	45:EN:403:MET:HE1	1.52	0.75
44:FA:352:LYS:HA	45:FD:177:ASP:O	1.85	0.75
45:GB:312:THR:HG22	45:GB:370:ASN:CB	2.17	0.75
44:GI:13:GLY:O	44:GI:17:GLY:N	2.20	0.75
44:GK:172:TYR:OH	44:GK:191:THR:OG1	1.99	0.75
45:GL:318:ARG:NH2	45:GL:364:ALA:HB3	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:232:ALA:HA	44:GM:235:ILE:HD13	1.69	0.75
44:HA:319:TYR:HD2	44:HA:328:VAL:HG22	1.52	0.75
44:HC:261:PRO:HA	45:HF:394:PHE:CE1	2.21	0.75
44:HG:301:MET:CE	44:HG:307:PRO:HD3	2.17	0.75
45:HL:330:MET:HE1	45:HL:349:ILE:HG21	1.68	0.75
45:HN:1:MET:O	45:HN:2:ARG:HG2	1.87	0.75
44:IC:73:THR:HA	45:ID:46:ARG:NH2	1.97	0.75
44:IE:261:PRO:HA	45:IH:394:PHE:CE1	2.22	0.75
44:IE:403:ALA:HA	45:IF:260:PHE:CE1	2.18	0.75
45:IF:113:ILE:HA	45:IF:116:VAL:HG12	1.68	0.75
44:IG:98:ASP:OD2	44:IG:100:ALA:N	2.14	0.75
45:JD:143:THR:N	48:JD:501:GDP:O1B	2.20	0.75
44:JG:212:ILE:HG13	44:JG:302:MET:HE1	1.69	0.75
45:KL:7:ILE:HG12	45:KL:64:ILE:HB	1.67	0.75
45:LB:137:HIS:O	45:LB:169:VAL:N	2.19	0.75
44:ME:200:VAL:CG2	44:ME:256:GLN:HB3	2.17	0.75
45:MF:42:LEU:HA	45:MF:45:GLU:HG3	1.69	0.75
45:MN:105:HIS:HB2	45:MN:146:GLY:HA2	1.69	0.75
45:ND:210:ILE:O	45:ND:214:THR:HG22	1.85	0.75
44:NE:188:ILE:HG23	44:NE:425:LEU:HG	1.67	0.75
44:NK:141:VAL:HG22	44:NK:187:SER:HA	1.68	0.75
44:OA:344:VAL:HG12	44:OA:346:TRP:H	1.51	0.75
45:OB:399:THR:HA	45:OB:403:MET:O	1.87	0.75
44:OE:295:ALA:HB1	44:OE:377:MET:HE2	1.67	0.75
44:OG:349:THR:HG21	45:OJ:176:SER:HB3	1.68	0.75
45:OJ:130:LEU:HD21	45:OJ:133:PHE:CE1	2.22	0.75
45:ON:162:ARG:O	45:ON:163:ILE:HD13	1.86	0.75
45:PL:19:LYS:HG2	45:PL:226:ASN:HB3	1.68	0.75
45:QB:258:ILE:HB	44:QC:407:TRP:CZ2	2.21	0.75
45:QB:345:ILE:HG23	45:QB:348:ASN:HD22	1.50	0.75
44:QC:426:ALA:HA	44:QC:429:GLU:HB2	1.69	0.75
44:QK:64:ARG:NH1	44:QK:129:CYS:SG	2.60	0.75
45:RD:193:VAL:O	45:RD:264:HIS:NE2	2.19	0.75
44:RE:67:PHE:HB2	44:RE:92:LEU:HD12	1.67	0.75
44:RE:256:GLN:HB3	45:RF:397:TRP:CH2	2.17	0.75
44:RE:311:LYS:CE	44:RE:344:VAL:HA	2.16	0.75
45:RF:161:ASP:OD1	45:RF:162:ARG:N	2.20	0.75
44:RG:208:ALA:O	44:RG:212:ILE:N	2.19	0.75
45:RJ:324:LYS:CG	44:RK:222:PRO:HD2	2.12	0.75
45:RL:324:LYS:HD3	44:RM:222:PRO:HG2	1.68	0.75
44:RM:233:GLN:O	44:RM:237:SER:N	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:100:ASN:ND2	45:SB:401:GLU:OE1	2.20	0.75
44:SE:434:GLU:O	44:SE:437:ILE:HG12	1.87	0.75
45:SF:325:GLU:HA	45:SF:328:GLU:HG2	1.68	0.75
44:SG:157:LEU:HD13	44:SG:166:LYS:NZ	2.00	0.75
45:SH:97:ALA:O	45:SH:103:LYS:HD2	1.87	0.75
45:SH:372:THR:HA	45:SH:422:TYR:CE2	2.21	0.75
45:SL:103:LYS:O	45:SL:108:GLU:N	2.16	0.75
44:TA:318:MET:HG2	44:TA:376:CYS:O	1.87	0.75
45:TD:1:MET:HE2	44:TE:96:LYS:HB3	1.69	0.75
45:TD:206:ALA:HA	45:TD:209:ASP:HB3	1.68	0.75
44:TI:60:LYS:HE3	44:UI:282:TYR:HB3	1.69	0.75
44:TI:209:ILE:HG12	44:TI:302:MET:SD	2.26	0.75
45:TJ:16:ILE:HD13	45:TJ:226:ASN:OD1	1.86	0.75
44:TK:185:TYR:HE2	44:TK:404:PHE:HB2	1.51	0.75
44:TM:384:ILE:O	44:TM:387:VAL:HG22	1.86	0.75
44:UC:269:LEU:HD23	44:UC:379:SER:O	1.87	0.75
44:UE:15:GLN:HA	44:UE:18:ASN:HD22	1.49	0.75
45:UH:45:GLU:O	45:UH:46:ARG:HD3	1.86	0.75
45:UJ:86:ARG:HD2	45:UJ:87:PRO:HD2	1.69	0.75
44:UK:54:SER:HB3	44:UK:64:ARG:HH12	1.49	0.75
44:UK:70:LEU:HD13	44:UK:110:ILE:CD1	2.17	0.75
45:UL:7:ILE:HD11	45:UL:120:VAL:HG11	1.69	0.75
45:UN:99:ASN:HA	45:UN:142:GLY:H	1.51	0.75
45:VD:242:PHE:CB	45:VD:356:ILE:HD13	2.13	0.75
45:VD:260:PHE:HB3	45:VD:261:PRO:HD2	1.68	0.75
44:WC:105:ARG:O	44:WC:110:ILE:HG22	1.86	0.75
45:WD:211:CYS:SG	45:WD:217:LEU:HD21	2.26	0.75
44:WK:23:LEU:HD21	44:WK:236:SER:HB3	1.68	0.75
44:WM:145:THR:HG22	46:WM:501:GTP:O3G	1.86	0.75
4:0C:53:TYR:OH	45:EH:320:ARG:HB2	1.85	0.75
20:1J:244:LEU:HA	44:II:221:ARG:HH12	1.50	0.75
37:5D:25:ASP:OD2	45:KN:392:LYS:N	2.20	0.75
37:5D:113:VAL:HG22	44:NM:286:LEU:HB2	1.68	0.75
38:5G:96:TYR:N	38:5G:97:ARG:HA	2.00	0.75
36:5S:124:CYS:SG	36:5S:164:LYS:HD2	2.26	0.75
41:6G:86:LYS:HD3	44:UK:85:GLN:OE1	1.86	0.75
41:6G:271:TYR:O	41:6G:272:LYS:NZ	2.16	0.75
11:6Q:78:MET:CE	11:6Q:80:ILE:HD11	2.13	0.75
45:AB:58:ARG:HH22	45:AB:83:GLN:HE22	1.34	0.75
44:AC:2:ARG:HD3	44:AC:242:LEU:HD22	1.68	0.75
44:AG:204:LEU:HD13	44:AG:231:ILE:HG12	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:86:ARG:HH21	45:AH:87:PRO:HG2	1.51	0.75
44:AI:141:VAL:HG11	44:AI:172:TYR:CD1	2.21	0.75
45:BD:211:CYS:CB	45:BD:220:PRO:HG3	2.17	0.75
45:BH:103:LYS:HA	45:BH:401:GLU:OE2	1.86	0.75
44:BI:96:LYS:HB3	45:BJ:1:MET:CE	2.17	0.75
44:BI:208:ALA:CA	44:BI:304:LYS:HE3	2.16	0.75
44:BI:209:ILE:HG22	44:BI:227:LEU:HD22	1.66	0.75
45:BJ:208:TYR:CE1	45:BJ:225:LEU:HD11	2.22	0.75
45:BJ:238:CYS:HB2	45:BJ:318:ARG:NH1	2.02	0.75
45:BL:27:GLU:O	45:BL:359:LYS:NZ	2.18	0.75
44:BM:274:PRO:HB2	44:BM:276:ILE:HD11	1.68	0.75
45:BN:186:THR:HG23	45:BN:187:LEU:HD12	1.68	0.75
45:BN:208:TYR:HE1	45:BN:225:LEU:HD11	1.52	0.75
44:CC:264:ARG:NH2	44:CC:428:LEU:HB2	2.02	0.75
45:CL:7:ILE:HB	45:CL:135:ILE:HD12	1.67	0.75
45:CL:318:ARG:HD3	45:CL:358:PRO:HD3	1.68	0.75
45:DB:86:ARG:HH22	45:EB:278:SER:HA	1.52	0.75
45:DL:375:GLN:C	45:DL:379:LYS:HD2	2.06	0.75
44:DM:4:VAL:HG23	44:DM:134:GLY:O	1.86	0.75
45:EB:317:PHE:N	45:EB:352:SER:O	2.20	0.75
44:EC:153:LEU:HA	44:EC:156:ARG:NH1	2.02	0.75
45:EF:255:VAL:HG21	44:EG:100:ALA:O	1.85	0.75
45:EH:251:ARG:HA	45:EH:254:ALA:HB3	1.69	0.75
45:EL:278:SER:HA	45:EL:281:TYR:CD2	2.20	0.75
45:EL:319:GLY:O	45:EL:355:ASP:HA	1.87	0.75
45:EN:11:GLN:N	48:EN:501:GDP:O3B	2.14	0.75
45:EN:86:ARG:NH1	45:FN:281:TYR:HB2	2.01	0.75
44:FA:191:THR:HA	44:FA:194:LEU:HG	1.67	0.75
44:FG:205:ASP:OD1	44:FG:303:ALA:HA	1.87	0.75
44:GA:1:MET:O	44:GA:131:GLY:HA3	1.86	0.75
44:GE:398:MET:HE1	45:GF:346:PRO:HD2	1.68	0.75
45:GF:239:CYS:SG	45:GF:248:SER:OG	2.43	0.75
44:GG:404:PHE:CE1	45:GH:259:PRO:HA	2.22	0.75
44:GI:304:LYS:HD3	44:GI:390:ARG:HH21	1.49	0.75
44:GI:434:GLU:O	44:GI:437:ILE:HG12	1.87	0.75
44:GK:317:MET:CB	44:GK:377:MET:HB3	2.17	0.75
44:GM:280:LYS:O	44:GM:280:LYS:HD3	1.87	0.75
44:HC:71:GLU:OE1	44:HC:73:THR:N	2.19	0.75
44:HG:161:TYR:HB3	44:HG:164:LYS:HE2	1.69	0.75
44:HG:331:SER:O	44:HG:334:THR:OG1	2.05	0.75
45:HH:286:VAL:CG2	45:HH:287:PRO:HD3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:232:ALA:O	45:HN:236:VAL:HG13	1.87	0.75
44:IA:406:HIS:CD2	45:IB:261:PRO:HD3	2.22	0.75
45:IB:101:TRP:CZ3	45:IB:187:LEU:HD22	2.22	0.75
45:IF:1:MET:O	45:IF:2:ARG:HG2	1.85	0.75
45:IF:304:ASP:OD1	45:IF:306:ARG:HD3	1.86	0.75
45:IN:19:LYS:HD2	45:IN:227:HIS:CD2	2.21	0.75
44:JA:181:VAL:HB	45:JB:256:ASN:OD1	1.87	0.75
45:JN:203:ASP:OD2	45:JN:302:ALA:N	2.17	0.75
44:KA:195:LEU:O	44:KA:264:ARG:NH2	2.19	0.75
45:KB:11:GLN:NE2	45:KB:72:THR:OG1	2.20	0.75
44:KC:320:ARG:HD3	44:KC:360:PRO:HG3	1.67	0.75
45:KF:36:TYR:CE1	45:KF:44:LEU:HD13	2.22	0.75
45:KF:49:VAL:HG11	45:KF:241:ARG:HG2	1.67	0.75
44:LA:258:ASN:OD1	45:LD:179:VAL:HG22	1.87	0.75
44:LA:363:VAL:CG2	44:LA:364:PRO:HD2	2.16	0.75
44:LE:295:ALA:HB1	44:LE:377:MET:HE3	1.68	0.75
45:LL:10:GLY:O	45:LL:14:ASN:N	2.19	0.75
44:LM:311:LYS:HD2	44:LM:342:GLN:HG3	1.68	0.75
44:MA:230:LEU:HD11	44:MA:275:ILE:CD1	2.16	0.75
44:MA:295:ALA:HB1	44:MA:377:MET:CE	2.17	0.75
45:MD:186:THR:HG21	45:MD:385:PHE:CE2	2.22	0.75
45:MF:46:ARG:HB2	45:MF:241:ARG:O	1.85	0.75
45:MN:100:ASN:OD1	45:MN:103:LYS:N	2.20	0.75
44:NA:395:PHE:CD2	44:NA:422:ARG:HD3	2.22	0.75
44:NC:285:GLN:HE22	44:NC:287:SER:HB2	1.51	0.75
44:NG:10:GLY:O	44:NG:14:ILE:HD12	1.87	0.75
45:NH:52:ASN:HB2	45:NH:60:VAL:CG1	2.17	0.75
45:NH:130:LEU:CD2	45:NH:162:ARG:HG2	2.15	0.75
44:NI:346:TRP:HE3	45:NL:391:ARG:HG3	1.51	0.75
45:NN:44:LEU:HD23	45:NN:47:ILE:CD1	2.16	0.75
45:NN:293:MET:CE	45:NN:367:PHE:HA	2.17	0.75
44:OA:141:VAL:HG22	44:OA:187:SER:HA	1.68	0.75
45:OJ:268:ILE:HG13	45:OJ:300:MET:HE2	1.69	0.75
44:OK:201:ALA:HB3	44:OK:267:PHE:HA	1.68	0.75
45:OL:74:ASP:OD1	45:OL:75:SER:N	2.20	0.75
44:OM:288:VAL:HA	44:OM:291:ILE:HG12	1.67	0.75
44:PA:316:SER:HA	44:PA:352:LYS:HB2	1.68	0.75
45:PF:193:VAL:HG23	45:PF:264:HIS:CE1	2.21	0.75
44:PK:174:SER:HB2	44:PK:177:VAL:O	1.86	0.75
44:QC:210:TYR:HE1	44:QC:227:LEU:HD11	1.51	0.75
44:QG:172:TYR:HB2	44:QG:203:MET:CE	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:22:GLU:HA	44:RE:25:CYS:SG	2.27	0.75
44:RG:435:VAL:HA	45:RH:391:ARG:HH22	1.50	0.75
45:RJ:285:THR:HG23	45:RJ:288:GLU:H	1.52	0.75
44:SM:146:GLY:N	46:SM:501:GTP:O1B	2.19	0.75
44:TA:136:LEU:HD23	44:TA:167:LEU:HB2	1.68	0.75
45:TB:178:THR:HG22	45:TB:180:VAL:HG12	1.68	0.75
45:TB:256:ASN:OD1	44:TC:181:VAL:N	2.16	0.75
44:TC:11:GLN:HB3	46:TC:501:GTP:PA	2.27	0.75
45:TD:4:ILE:HG22	45:TD:132:GLY:N	2.01	0.75
45:TF:330:MET:HE1	45:TF:349:ILE:HD13	1.68	0.75
44:TG:257:THR:HA	45:TH:397:TRP:CZ2	2.22	0.75
44:TG:383:ALA:O	44:TG:386:GLU:HG2	1.87	0.75
44:TI:414:GLU:HB2	44:TI:417:GLU:CG	2.15	0.75
45:TL:316:LEU:HG	45:TL:352:SER:HB2	1.69	0.75
45:TN:278:SER:OG	45:TN:281:TYR:HB2	1.87	0.75
45:UD:257:LEU:HD21	45:UD:368:VAL:HG21	1.68	0.75
44:UE:257:THR:HA	45:UF:397:TRP:CH2	2.21	0.75
44:UG:76:ASP:OD1	44:UG:79:ARG:NH2	2.19	0.75
45:UH:207:LEU:HB3	45:UH:225:LEU:CD2	2.16	0.75
45:UH:261:PRO:HD3	44:UI:406:HIS:CE1	2.21	0.75
44:UI:3:GLU:N	44:UI:131:GLY:O	2.18	0.75
45:UJ:134:GLN:HA	45:UJ:165:GLU:HB2	1.68	0.75
45:UL:315:ALA:N	45:UL:350:LYS:O	2.20	0.75
44:VA:184:PRO:O	44:VA:188:ILE:HD12	1.87	0.75
44:VC:188:ILE:HG13	44:VC:395:PHE:CD1	2.22	0.75
44:VK:63:PRO:HG2	44:VK:87:PHE:HA	1.68	0.75
44:VM:222:PRO:CD	45:VN:324:LYS:HE2	2.16	0.75
45:VN:178:THR:HG22	45:VN:180:VAL:HG12	1.68	0.75
44:WA:175:PRO:HG2	44:WA:304:LYS:HG2	1.69	0.75
44:WA:345:ASP:OD2	45:WD:391:ARG:NH2	2.20	0.75
45:WF:245:GLN:HB2	45:WF:353:ILE:HB	1.68	0.75
44:WI:287:SER:HB3	44:WI:290:GLU:HG2	1.68	0.75
1:6H:286:GLU:CB	45:FH:227:HIS:CD2	2.70	0.75
10:0N:16:ILE:HG22	45:IN:48:ASN:HB3	1.66	0.75
25:1P:362:LYS:NZ	45:TB:357:PRO:O	2.17	0.75
6:2E:141:GLN:NE2	35:5R:480:ILE:HD12	2.00	0.75
26:2R:399:ILE:HD11	45:DH:92:PHE:HE2	1.49	0.75
2:3A:35:TYR:O	45:MN:320:ARG:NH2	2.20	0.75
32:3I:272:ARG:HD3	45:GJ:213:ARG:HH12	1.50	0.75
31:4H:169:THR:HB	35:5R:83:PRO:HB3	1.68	0.75
37:5D:108:ARG:HG2	44:NM:281:ALA:CB	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:404:LEU:CD1	45:DN:77:ARG:HH11	1.97	0.75
35:7R:218:ILE:HG22	35:7R:220:ILE:HG13	1.69	0.75
45:AF:6:HIS:O	45:AF:63:ALA:HA	1.87	0.75
45:AF:242:PHE:CD1	45:AF:356:ILE:HG13	2.21	0.75
45:AL:303:ALA:HB1	45:AL:373:ALA:HB3	1.69	0.75
45:BD:213:ARG:HH21	45:BD:297:LYS:HE3	1.52	0.75
44:BK:264:ARG:NH1	44:BK:431:ASP:OD2	2.20	0.75
45:BN:86:ARG:HG3	45:CL:281:TYR:HB3	1.69	0.75
45:CF:156:ARG:NH1	45:CF:162:ARG:O	2.20	0.75
44:CG:264:ARG:NE	44:CG:431:ASP:OD2	2.20	0.75
44:CK:183:GLU:O	44:CK:187:SER:OG	2.04	0.75
44:CM:3:GLU:HA	44:CM:51:THR:HG23	1.68	0.75
45:CN:318:ARG:HD3	45:CN:358:PRO:HD3	1.68	0.75
44:DA:25:CYS:HB3	44:DA:30:ILE:HB	1.68	0.75
44:DA:141:VAL:HG11	44:DA:172:TYR:HD1	1.51	0.75
44:DC:141:VAL:HG11	44:DC:172:TYR:CD1	2.22	0.75
44:DE:71:GLU:OE1	44:DE:73:THR:N	2.17	0.75
44:DG:263:PRO:HD3	45:DH:396:HIS:CG	2.22	0.75
45:DN:196:ALA:HB3	45:DN:264:HIS:CE1	2.22	0.75
45:EN:21:TRP:HH2	45:EN:50:TYR:HB3	1.50	0.75
44:FC:261:PRO:HG3	45:FF:394:PHE:CZ	2.22	0.75
44:FG:36:MET:CE	44:FG:37:PRO:HD2	2.17	0.75
44:GC:320:ARG:HH12	44:GC:360:PRO:CA	2.00	0.75
45:GD:286:VAL:HB	45:GD:325:GLU:OE2	1.87	0.75
45:GD:414:ASN:OD1	45:GD:415:MET:N	2.19	0.75
44:GM:75:ILE:HD12	44:GM:92:LEU:HD23	1.69	0.75
45:GN:319:GLY:N	45:GN:354:CYS:O	2.20	0.75
45:HB:130:LEU:HD11	45:HB:133:PHE:CE1	2.19	0.75
45:HF:4:ILE:HG22	45:HF:132:GLY:H	1.50	0.75
44:HK:325:PRO:O	44:HK:328:VAL:HG12	1.87	0.75
45:IB:73:MET:SD	45:IB:92:PHE:HB3	2.26	0.75
45:IB:383:GLU:HA	45:IB:386:THR:HG22	1.67	0.75
44:IC:188:ILE:HD12	44:IC:425:LEU:CD1	2.16	0.75
44:II:346:TRP:CZ3	44:II:347:CYS:HB2	2.21	0.75
44:IK:143:GLY:HA3	46:IK:501:GTP:O2B	1.85	0.75
45:IL:49:VAL:HG21	45:IL:241:ARG:CD	2.16	0.75
45:IL:133:PHE:HB2	45:IL:164:MET:SD	2.25	0.75
45:IL:173:PRO:HG3	45:IL:380:ARG:HD3	1.67	0.75
44:IM:10:GLY:HA2	44:IM:145:THR:HG23	1.68	0.75
44:JI:297:GLU:OE1	44:JI:300:ASN:N	2.20	0.75
45:JN:325:GLU:HA	45:JN:328:GLU:CG	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:216:LYS:HB2	45:KF:275:SER:HB2	1.69	0.75
44:KI:384:ILE:O	44:KI:387:VAL:HG22	1.86	0.75
44:LA:93:ILE:HG23	44:LA:117:LEU:HD23	1.67	0.75
44:LE:384:ILE:O	44:LE:387:VAL:HG22	1.86	0.75
45:LF:99:ASN:HA	45:LF:142:GLY:CA	2.16	0.75
45:LF:215:LEU:HD22	45:LF:217:LEU:HD23	1.67	0.75
44:LG:288:VAL:HG11	44:LG:327:ASP:CB	2.16	0.75
45:LH:125:GLU:OE2	45:LH:159:TYR:OH	2.05	0.75
45:LN:210:ILE:HD13	45:LN:228:LEU:HD21	1.69	0.75
45:ND:171:PRO:O	45:ND:380:ARG:NH2	2.16	0.75
44:NE:250:VAL:HG21	44:NE:352:LYS:CE	2.17	0.75
45:NJ:7:ILE:CG2	45:NJ:135:ILE:HG12	2.16	0.75
44:NM:26:LEU:CD2	44:NM:363:VAL:HA	2.16	0.75
44:OG:332:ILE:HD12	44:OG:351:PHE:CG	2.22	0.75
44:OK:210:TYR:HE1	44:OK:227:LEU:HD11	1.49	0.75
44:OK:213:CYS:HA	44:OK:217:LEU:HD12	1.69	0.75
44:OK:261:PRO:HB3	45:ON:394:PHE:CZ	2.22	0.75
45:OL:319:GLY:HA2	45:OL:357:PRO:HD3	1.68	0.75
45:PF:256:ASN:HB3	45:PF:257:LEU:HD12	1.68	0.75
45:PL:11:GLN:HA	45:PL:14:ASN:HD21	1.51	0.75
44:PM:32:PRO:HB3	44:PM:83:TYR:CD1	2.22	0.75
44:QE:203:MET:HE3	44:QE:203:MET:HA	1.68	0.75
44:QE:229:ARG:NH1	44:QE:366:GLY:HA2	2.02	0.75
45:QF:303:ALA:HB2	45:QF:377:MET:CE	2.17	0.75
45:QL:173:PRO:HG2	45:QL:380:ARG:HD3	1.67	0.75
44:RA:145:THR:O	44:RA:149:LEU:HB2	1.86	0.75
44:RC:137:VAL:HG12	44:RC:168:GLY:HA2	1.68	0.75
44:RC:258:ASN:HD22	44:RC:352:LYS:HB2	1.50	0.75
45:RD:64:ILE:HG12	45:RD:119:VAL:CG2	2.17	0.75
45:RD:313:ALA:HB3	45:RD:349:ILE:HA	1.67	0.75
44:RG:174:SER:HB3	44:RG:175:PRO:HD2	1.69	0.75
44:SC:242:LEU:HD11	44:SC:252:ILE:HD11	1.68	0.75
44:SE:11:GLN:HB3	46:SE:501:GTP:O3A	1.86	0.75
44:SG:206:ASN:O	44:SG:209:ILE:N	2.20	0.75
45:SJ:257:LEU:HA	45:SJ:312:THR:HG21	1.69	0.75
45:SL:315:ALA:N	45:SL:350:LYS:O	2.16	0.75
44:SM:287:SER:O	44:SM:291:ILE:HG23	1.87	0.75
44:TA:79:ARG:NH1	44:TA:92:LEU:HB2	2.02	0.75
45:TF:4:ILE:HG22	45:TF:131:GLN:HB3	1.68	0.75
45:TH:8:GLN:HE21	45:TH:14:ASN:HA	1.52	0.75
45:TH:311:LEU:O	45:TH:345:ILE:HD13	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:383:GLU:O	45:TH:386:THR:HG22	1.87	0.75
44:TI:247:ALA:O	45:TJ:11:GLN:NE2	2.20	0.75
44:TK:238:LEU:HA	44:TK:318:MET:CE	2.17	0.75
44:UA:141:VAL:HG12	44:UA:172:TYR:HA	1.67	0.75
45:UD:267:MET:HG3	45:UD:301:CYS:SG	2.27	0.75
44:UE:101:ASN:HA	44:UE:144:GLY:HA3	1.69	0.75
45:UH:16:ILE:HD13	45:UH:226:ASN:OD1	1.87	0.75
44:UM:274:PRO:HG2	44:UM:371:VAL:HG21	1.68	0.75
44:VM:171:ILE:HG12	44:VM:204:LEU:CB	2.17	0.75
44:VM:224:TYR:O	44:VM:228:ASN:N	2.18	0.75
45:WB:16:ILE:HD12	45:WB:229:VAL:HG11	1.67	0.75
45:WB:309:ARG:NH2	45:WB:426:GLN:O	2.19	0.75
44:WC:174:SER:HB2	44:WC:177:VAL:O	1.87	0.75
45:WF:67:ASP:OD1	45:WF:68:LEU:N	2.19	0.75
44:WG:135:PHE:O	44:WG:167:LEU:N	2.18	0.75
44:WK:21:TRP:O	44:WK:25:CYS:N	2.18	0.75
44:WM:248:LEU:HD23	44:WM:355:ILE:N	2.01	0.75
24:IO:239:ILE:HG21	45:UB:280:GLN:HE21	1.52	0.74
30:2G:48:TYR:OH	45:JJ:80:PRO:HG3	1.87	0.74
35:5R:469:LYS:HE2	35:5R:472:GLU:HA	1.68	0.74
35:6R:27:LYS:NZ	44:LK:2:ARG:NH1	2.35	0.74
35:6R:300:PHE:CG	45:CN:77:ARG:NH1	2.55	0.74
35:6R:462:ASN:N	45:FN:218:THR:OG1	2.20	0.74
35:7R:203:ARG:NH1	35:7R:204:VAL:O	2.20	0.74
42:8L:138:UNK:O	42:8L:142:UNK:N	2.19	0.74
44:AA:196:GLU:OE2	44:AA:264:ARG:NH1	2.17	0.74
44:AA:398:MET:HE3	45:AB:346:PRO:HD2	1.69	0.74
45:AF:215:LEU:HD21	45:AF:273:LEU:HD11	1.68	0.74
45:AJ:202:ILE:HD13	45:AJ:229:VAL:HG22	1.69	0.74
45:BL:262:ARG:O	45:BL:264:HIS:ND1	2.20	0.74
44:CC:88:HIS:CE1	44:CC:90:GLU:HG2	2.21	0.74
44:CC:288:VAL:HA	44:CC:291:ILE:HG12	1.68	0.74
45:CD:372:THR:HA	45:CD:422:TYR:HE2	1.52	0.74
44:CE:174:SER:OG	44:CE:206:ASN:OD1	2.05	0.74
45:CH:318:ARG:HH12	45:CH:358:PRO:HB3	1.51	0.74
44:CI:196:GLU:OE2	44:CI:264:ARG:NH1	2.19	0.74
44:CK:207:GLU:O	44:CK:210:TYR:N	2.19	0.74
45:CN:316:LEU:HD13	45:CN:366:THR:HG23	1.69	0.74
45:DH:44:LEU:HA	45:DH:47:ILE:HD11	1.68	0.74
44:EE:68:LEU:CD2	44:EE:118:CYS:HB2	2.17	0.74
45:EF:135:ILE:CB	45:EF:166:THR:HG22	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:8:GLN:NE2	45:EH:14:ASN:OD1	2.20	0.74
45:EH:309:ARG:NH2	45:EH:426:GLN:HG2	1.99	0.74
44:EI:39:ASP:O	44:EI:41:THR:HG23	1.87	0.74
45:EL:217:LEU:HD11	45:EL:220:PRO:HG3	1.69	0.74
44:EM:88:HIS:CE1	44:EM:90:GLU:HG2	2.22	0.74
45:FD:317:PHE:O	45:FD:354:CYS:N	2.19	0.74
44:FK:314:ALA:H	44:FK:380:ASN:HB3	1.51	0.74
44:GA:278:ALA:HB2	44:GA:369:ALA:HB2	1.69	0.74
45:GD:313:ALA:HA	45:GD:369:GLY:HA2	1.69	0.74
44:GG:262:TYR:CE2	45:GJ:393:ALA:HA	2.22	0.74
44:GI:175:PRO:HG2	44:GI:176:GLN:OE1	1.87	0.74
45:GL:86:ARG:HG3	45:HL:281:TYR:HB3	1.67	0.74
45:HB:187:LEU:HD11	45:HB:408:PHE:HE1	1.52	0.74
45:HL:73:MET:O	45:HL:76:VAL:HG12	1.86	0.74
44:IA:9:VAL:HG12	44:IA:68:LEU:HB2	1.68	0.74
45:IB:150:LEU:HD21	45:IB:154:LYS:HE2	1.68	0.74
45:IF:11:GLN:HA	45:IF:14:ASN:HB2	1.68	0.74
45:IF:318:ARG:HH12	45:IF:358:PRO:HG3	1.51	0.74
44:II:70:LEU:HA	44:II:95:GLY:HA3	1.68	0.74
44:II:311:LYS:HD3	44:II:342:GLN:HG3	1.67	0.74
45:IL:326:VAL:HG21	45:IL:353:ILE:HD11	1.67	0.74
45:JB:114:ASP:OD1	45:JB:115:SER:N	2.20	0.74
44:JC:289:ALA:O	44:JC:292:THR:HG22	1.87	0.74
45:JD:253:LEU:O	45:JD:257:LEU:N	2.20	0.74
45:JF:370:ASN:OD1	45:JF:422:TYR:OH	2.05	0.74
45:JF:372:THR:HA	45:JF:422:TYR:HE2	1.51	0.74
45:JH:86:ARG:NH1	45:KH:281:TYR:HA	2.02	0.74
44:JK:103:PHE:HE2	44:JK:148:GLY:HA2	1.52	0.74
44:JM:244:PHE:HB2	44:JM:356:ASN:HD21	1.51	0.74
45:JN:318:ARG:CZ	45:JN:358:PRO:HG3	2.17	0.74
45:KB:294:PHE:CE2	45:KB:333:VAL:HG21	2.21	0.74
44:KC:242:LEU:HD11	44:KC:252:ILE:CD1	2.16	0.74
44:KE:10:GLY:HA2	44:KE:145:THR:HG23	1.69	0.74
45:KN:417:ASP:O	45:KN:421:GLU:N	2.20	0.74
44:LA:54:SER:HB3	44:LA:64:ARG:NH1	2.02	0.74
44:LC:89:PRO:HG2	44:MC:280:LYS:HB2	1.68	0.74
45:LN:294:PHE:CE1	45:LN:333:VAL:HG21	2.22	0.74
45:MF:8:GLN:OE1	45:MF:17:GLY:HA3	1.88	0.74
45:NB:171:PRO:O	45:NB:380:ARG:NH2	2.20	0.74
45:NB:211:CYS:O	45:NB:216:LYS:N	2.19	0.74
45:NB:238:CYS:SG	45:NB:316:LEU:HD23	2.27	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:399:THR:HA	45:NB:403:MET:HB2	1.68	0.74
44:NC:210:TYR:HE1	44:NC:227:LEU:HD11	1.51	0.74
45:ND:19:LYS:HD3	45:ND:22:GLU:OE1	1.86	0.74
45:NJ:12:CYS:SG	45:NJ:138:SER:HB2	2.27	0.74
45:NN:101:TRP:HZ3	45:NN:145:SER:HB2	1.52	0.74
45:OB:113:ILE:O	45:OB:117:LEU:HD23	1.87	0.74
45:OB:168:SER:O	45:OB:202:ILE:HG22	1.86	0.74
45:OL:207:LEU:HB3	45:OL:225:LEU:HD23	1.69	0.74
44:PA:34:GLY:HA3	44:PA:60:LYS:HZ2	1.50	0.74
45:PB:21:TRP:HA	45:PB:24:ILE:HG22	1.69	0.74
45:PD:325:GLU:HA	45:PD:328:GLU:HG2	1.68	0.74
45:PH:67:ASP:HB3	45:PH:73:MET:HE2	1.68	0.74
44:QA:254:GLU:OE2	45:QB:98:GLY:HA2	1.86	0.74
44:QC:258:ASN:ND2	45:QD:178:THR:HG23	2.01	0.74
44:QC:271:SER:OG	44:QC:301:MET:SD	2.43	0.74
44:QC:320:ARG:HB2	44:QC:358:GLN:O	1.87	0.74
45:QD:86:ARG:HB2	45:QD:89:ASN:OD1	1.87	0.74
45:QF:7:ILE:HB	45:QF:135:ILE:HD13	1.69	0.74
45:QF:257:LEU:O	45:QF:258:ILE:HD13	1.87	0.74
44:QI:5:ILE:HB	44:QI:135:PHE:CE1	2.21	0.74
45:QJ:310:TYR:N	45:QJ:340:TYR:O	2.20	0.74
44:QK:272:TYR:O	44:QK:275:ILE:HD11	1.87	0.74
45:QL:286:VAL:HG12	45:QL:287:PRO:HD3	1.68	0.74
44:QM:184:PRO:O	44:QM:188:ILE:HD12	1.85	0.74
44:RC:244:PHE:CE2	44:RC:358:GLN:HG2	2.21	0.74
45:RD:325:GLU:OE1	44:RE:221:ARG:NH1	2.20	0.74
44:RE:136:LEU:CD2	44:RE:167:LEU:HB2	2.17	0.74
45:RH:139:LEU:HA	45:RH:145:SER:HB2	1.67	0.74
45:RH:156:ARG:HD3	45:RH:164:MET:SD	2.26	0.74
45:RJ:350:LYS:HA	44:RK:179:THR:O	1.87	0.74
44:SA:14:ILE:CD1	44:SA:69:ASP:HB2	2.17	0.74
45:SD:103:LYS:N	45:SD:401:GLU:OE1	2.20	0.74
45:SD:173:PRO:HB2	45:SD:176:SER:CA	2.17	0.74
44:SG:268:MET:HG3	44:SG:378:ILE:CG2	2.17	0.74
45:SJ:207:LEU:HB3	45:SJ:225:LEU:HD22	1.69	0.74
45:SJ:232:ALA:O	45:SJ:236:VAL:HG23	1.87	0.74
44:SK:331:SER:O	44:SK:335:ILE:HD12	1.86	0.74
45:SN:73:MET:O	45:SN:76:VAL:HG12	1.87	0.74
44:TC:88:HIS:ND1	44:TC:90:GLU:HG2	2.02	0.74
44:TE:76:ASP:OD1	44:TE:79:ARG:NH2	2.20	0.74
44:TG:123:ARG:HA	44:TG:161:TYR:OH	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:188:ILE:HG23	44:TG:425:LEU:HD12	1.67	0.74
44:TG:249:ASN:H	45:TH:11:GLN:HE22	1.31	0.74
45:TJ:255:VAL:HG21	44:TK:100:ALA:HB1	1.69	0.74
44:TK:72:PRO:O	44:TK:76:ASP:N	2.17	0.74
45:TL:22:GLU:O	45:TL:25:SER:OG	2.04	0.74
44:UA:143:GLY:HA3	46:UA:501:GTP:O2B	1.86	0.74
44:UC:132:LEU:HD22	44:UC:164:LYS:HD2	1.69	0.74
44:UC:202:VAL:HA	44:UC:268:MET:O	1.87	0.74
45:UF:229:VAL:O	45:UF:233:MET:HG3	1.87	0.74
45:UH:55:THR:OG1	45:VH:282:ARG:O	2.02	0.74
44:UK:246:GLY:HA2	44:UK:357:TYR:CD2	2.21	0.74
45:UL:248:SER:HA	45:UL:252:LYS:HD2	1.67	0.74
45:UL:405:GLU:O	45:UL:409:THR:N	2.19	0.74
44:UM:244:PHE:HB2	44:UM:356:ASN:HD21	1.50	0.74
45:UN:252:LYS:O	45:UN:256:ASN:ND2	2.20	0.74
45:VJ:200:MET:CE	45:VJ:266:PHE:HB2	2.17	0.74
45:VN:25:SER:HB2	45:VN:81:PHE:HE1	1.51	0.74
45:VN:222:TYR:HB3	48:VN:501:GDP:O6	1.87	0.74
45:VN:314:SER:HA	45:VN:350:LYS:HB3	1.69	0.74
45:WD:283:ALA:O	45:WD:285:THR:HG23	1.87	0.74
44:WE:184:PRO:O	44:WE:188:ILE:HG12	1.87	0.74
45:WF:372:THR:HA	45:WF:422:TYR:CE2	2.22	0.74
44:WK:186:ASN:OD1	44:WK:187:SER:N	2.19	0.74
1:6H:217:GLN:HG3	45:FD:320:ARG:NH1	1.53	0.74
4:0C:73:PRO:HD3	45:DH:55:THR:HB	1.67	0.74
8:0G:31:MET:HE3	45:JL:279:GLN:HB3	1.68	0.74
8:0G:144:TYR:HA	44:KM:282:TYR:CE2	2.20	0.74
37:5D:56:ILE:HB	45:KN:391:ARG:HD3	1.69	0.74
37:5D:103:HIS:HB3	44:NM:279:GLU:OE2	1.84	0.74
37:5D:107:TYR:CB	44:NM:279:GLU:H	1.99	0.74
35:7R:255:VAL:O	35:7R:256:LEU:HD23	1.86	0.74
44:AC:39:ASP:OD1	44:AC:40:LYS:N	2.20	0.74
44:AE:144:GLY:O	44:AE:148:GLY:N	2.16	0.74
45:AF:173:PRO:CG	45:AF:380:ARG:HD3	2.16	0.74
45:AJ:256:ASN:HD22	45:AJ:350:LYS:HE2	1.52	0.74
44:AM:305:CYS:SG	44:AM:387:VAL:HG13	2.27	0.74
45:BD:61:PRO:HD3	45:BD:84:LEU:HB3	1.68	0.74
44:BG:252:ILE:HA	44:BG:255:PHE:CE2	2.22	0.74
45:BJ:396:HIS:HA	45:BJ:399:THR:HG22	1.68	0.74
44:BM:106:GLY:O	44:BM:149:LEU:HD22	1.87	0.74
45:BN:173:PRO:CG	45:BN:380:ARG:HD3	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:253:LEU:O	45:BN:257:LEU:HD13	1.85	0.74
44:CC:176:GLN:NE2	44:CC:207:GLU:OE2	2.20	0.74
45:CL:208:TYR:CZ	45:CL:225:LEU:HD11	2.22	0.74
45:CL:311:LEU:HD12	45:CL:312:THR:HG22	1.69	0.74
44:DA:434:GLU:O	44:DA:437:ILE:HG12	1.87	0.74
44:DG:349:THR:HG23	45:DH:179:VAL:HA	1.66	0.74
45:DJ:318:ARG:HH11	45:DJ:358:PRO:HG3	1.51	0.74
45:DN:65:LEU:HD22	45:DN:90:PHE:CE2	2.23	0.74
44:EI:36:MET:HB2	44:EI:37:PRO:CD	2.17	0.74
44:EI:301:MET:CE	44:EI:307:PRO:HG3	2.17	0.74
45:EL:255:VAL:HA	44:EM:407:TRP:CZ3	2.20	0.74
45:EN:212:PHE:CZ	45:EN:220:PRO:HG2	2.21	0.74
44:FA:420:GLU:O	44:FA:423:GLU:HG2	1.87	0.74
44:FC:241:SER:OG	44:FC:250:VAL:O	2.04	0.74
44:FE:75:ILE:HG22	44:FE:79:ARG:NE	2.02	0.74
44:FI:224:TYR:HD1	44:FI:227:LEU:HD12	1.50	0.74
44:FI:311:LYS:N	44:FI:382:THR:OG1	2.20	0.74
44:FK:323:VAL:HG22	44:FK:373:ARG:HG2	1.68	0.74
45:FL:372:THR:HA	45:FL:422:TYR:HE2	1.50	0.74
45:FN:68:LEU:HD23	45:FN:97:ALA:HB2	1.69	0.74
45:GF:330:MET:CE	45:GF:349:ILE:HD11	2.16	0.74
44:GG:326:LYS:HB2	45:GJ:212:PHE:HZ	1.52	0.74
45:GH:167:PHE:CE2	45:GH:233:MET:HG3	2.21	0.74
44:GI:209:ILE:O	44:GI:213:CYS:N	2.17	0.74
45:GJ:286:VAL:HA	45:GJ:289:LEU:HD12	1.69	0.74
45:GL:131:GLN:HG3	45:GL:250:LEU:HD12	1.68	0.74
44:GM:320:ARG:CB	44:GM:356:ASN:HB3	2.16	0.74
44:HC:276:ILE:HD11	44:HC:280:LYS:HB3	1.69	0.74
44:HC:328:VAL:CG1	44:HC:353:VAL:HG21	2.16	0.74
45:HJ:141:GLY:HA3	48:HJ:501:GDP:O3A	1.86	0.74
44:HM:70:LEU:HB3	44:HM:97:GLU:O	1.86	0.74
44:HM:259:LEU:CD2	44:HM:314:ALA:HB1	2.18	0.74
44:HM:275:ILE:HA	44:HM:368:LEU:HD11	1.68	0.74
45:IB:284:LEU:HD12	45:IB:362:LYS:HE2	1.69	0.74
45:IJ:19:LYS:HG2	45:IJ:227:HIS:HA	1.68	0.74
45:IJ:287:PRO:O	45:IJ:290:THR:HG22	1.86	0.74
44:IK:88:HIS:HA	45:JL:281:TYR:CE2	2.22	0.74
44:JA:22:GLU:OE1	44:JA:83:TYR:OH	2.04	0.74
44:JA:154:LEU:HD22	44:JA:166:LYS:HD2	1.67	0.74
44:JC:342:GLN:N	44:JC:342:GLN:OE1	2.20	0.74
45:JF:69:GLU:OE2	45:JF:72:THR:OG1	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:104:ALA:HB1	44:JK:411:GLU:HB3	1.68	0.74
45:JL:235:GLY:HA2	45:JL:318:ARG:NH2	2.02	0.74
44:JM:32:PRO:HB3	44:JM:83:TYR:HE1	1.50	0.74
45:JN:186:THR:HG21	45:JN:385:PHE:CD2	2.22	0.74
45:JN:278:SER:HB3	45:JN:281:TYR:HB2	1.69	0.74
45:KB:207:LEU:HG	45:KB:300:MET:HE1	1.69	0.74
45:KL:309:ARG:NH2	45:KL:343:GLU:HG3	2.02	0.74
44:KM:7:ILE:HA	44:KM:66:VAL:HG12	1.68	0.74
45:KN:163:ILE:HD13	45:KN:251:ARG:CD	2.18	0.74
44:LE:286:LEU:N	44:LE:290:GLU:OE2	2.20	0.74
44:MA:240:ALA:O	44:MA:356:ASN:ND2	2.20	0.74
44:ME:305:CYS:SG	44:ME:383:ALA:HB1	2.27	0.74
44:NC:398:MET:CE	45:ND:345:ILE:HD12	2.16	0.74
44:NE:107:HIS:HD1	44:NE:108:TYR:HE1	1.35	0.74
44:NE:209:ILE:HG12	44:NE:302:MET:HE3	1.68	0.74
44:NK:101:ASN:HA	44:NK:144:GLY:N	2.02	0.74
44:NK:155:GLU:HA	44:NK:197:HIS:ND1	2.02	0.74
44:NK:430:LYS:NZ	44:NK:433:GLU:OE1	2.20	0.74
44:OA:222:PRO:CG	45:OB:324:LYS:HD3	2.17	0.74
44:OA:434:GLU:O	44:OA:437:ILE:HG22	1.87	0.74
45:OB:207:LEU:O	45:OB:211:CYS:N	2.19	0.74
45:OB:396:HIS:HA	45:OB:399:THR:OG1	1.86	0.74
44:OG:23:LEU:HD21	44:OG:236:SER:HB2	1.69	0.74
44:OI:154:LEU:HD22	44:OI:166:LYS:HZ3	1.51	0.74
44:OK:294:SER:HA	44:OK:297:GLU:HG2	1.69	0.74
45:OL:133:PHE:O	45:OL:165:GLU:N	2.20	0.74
44:OM:265:ILE:HG22	44:OM:380:ASN:HD21	1.52	0.74
44:PA:324:VAL:HG13	44:PA:325:PRO:HD2	1.69	0.74
44:PC:326:LYS:HB2	45:PF:212:PHE:HZ	1.52	0.74
45:PF:20:PHE:CE1	45:PF:25:SER:C	2.60	0.74
44:PI:60:LYS:NZ	44:PI:85:GLN:O	2.16	0.74
44:PK:325:PRO:HG3	44:PK:355:ILE:CD1	2.16	0.74
44:QC:12:GLY:O	44:QC:16:VAL:HG12	1.87	0.74
44:QC:384:ILE:O	44:QC:387:VAL:HG22	1.86	0.74
44:QG:31:GLN:HG3	44:QG:32:PRO:HD2	1.69	0.74
45:QH:231:ALA:HB1	45:QH:270:PHE:CZ	2.22	0.74
45:QH:271:ALA:HB2	45:QH:298:ASN:OD1	1.87	0.74
44:QK:242:LEU:HD21	44:QK:251:ASP:HA	1.68	0.74
45:QL:105:HIS:CD2	45:QL:150:LEU:HB2	2.23	0.74
44:QM:141:VAL:HG11	44:QM:172:TYR:HA	1.69	0.74
44:QM:170:THR:O	44:QM:204:LEU:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:21:TRP:CH2	45:RB:50:TYR:HB3	2.22	0.74
44:RC:21:TRP:O	44:RC:25:CYS:N	2.20	0.74
45:RD:173:PRO:HG3	45:RD:380:ARG:HD3	1.69	0.74
45:RH:45:GLU:O	45:RH:46:ARG:HD3	1.85	0.74
44:RM:142:GLY:HA2	44:RM:186:ASN:OD1	1.87	0.74
44:SA:11:GLN:HG3	44:SA:74:VAL:HG11	1.67	0.74
45:SB:294:PHE:CE2	45:SB:333:VAL:HG21	2.22	0.74
45:SF:208:TYR:CE1	45:SF:225:LEU:HD11	2.21	0.74
45:SJ:67:ASP:OD1	45:SJ:68:LEU:N	2.20	0.74
44:SM:161:TYR:CD2	44:SM:164:LYS:HG3	2.23	0.74
44:TA:257:THR:HG23	45:TB:397:TRP:CZ2	2.22	0.74
44:TC:174:SER:HB2	44:TC:177:VAL:O	1.88	0.74
45:TF:135:ILE:HG13	45:TF:152:ILE:CD1	2.16	0.74
45:TF:255:VAL:HA	44:TG:407:TRP:CZ3	2.21	0.74
45:TH:132:GLY:HA3	45:TH:163:ILE:O	1.86	0.74
45:TH:152:ILE:O	45:TH:155:VAL:HG22	1.87	0.74
45:TJ:221:THR:HG23	45:TJ:223:GLY:N	2.01	0.74
45:TL:240:LEU:HD12	45:TL:249:ASP:HA	1.69	0.74
45:UF:206:ALA:O	45:UF:210:ILE:N	2.13	0.74
44:UG:89:PRO:HG3	44:VE:280:LYS:HD2	1.69	0.74
45:UJ:246:LEU:HD11	44:UK:224:TYR:OH	1.87	0.74
44:UK:254:GLU:HG3	45:UL:98:GLY:HA2	1.69	0.74
45:UL:384:GLN:HB3	45:UL:388:MET:HE1	1.69	0.74
45:UN:398:TYR:HB3	45:UN:403:MET:CE	2.17	0.74
44:VA:71:GLU:OE1	44:VA:73:THR:N	2.16	0.74
44:VA:270:SER:HB3	44:VA:378:ILE:HD13	1.68	0.74
45:VF:1:MET:O	45:VF:2:ARG:HG2	1.86	0.74
45:VF:113:ILE:O	45:VF:116:VAL:HG12	1.86	0.74
44:VG:329:ASN:HB3	45:VJ:175:VAL:HG11	1.68	0.74
44:VK:135:PHE:HB2	44:VK:166:LYS:HG2	1.67	0.74
44:VM:321:GLY:HA2	44:VM:357:TYR:O	1.86	0.74
45:WF:294:PHE:CZ	45:WF:333:VAL:HG11	2.22	0.74
44:WK:121:ARG:O	44:WK:125:LEU:HD23	1.87	0.74
26:3R:29:LYS:NZ	44:MK:47:ASP:HB3	2.01	0.74
37:5D:24:GLY:HA2	45:KN:183:TYR:CE1	2.20	0.74
11:5Q:97:LYS:HE3	45:AN:392:LYS:HE2	1.69	0.74
35:7R:11:LEU:O	35:7R:12:LEU:HD23	1.87	0.74
43:8R:154:UNK:HA	45:PJ:276:ARG:HH22	1.51	0.74
44:AA:422:ARG:HH12	44:AA:426:ALA:HB2	1.52	0.74
44:AI:284:GLU:HG3	44:AI:286:LEU:CD2	2.17	0.74
44:AK:87:PHE:HB3	44:AK:92:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:200:VAL:HG13	44:AK:268:MET:CE	2.18	0.74
44:BE:141:VAL:HG11	44:BE:172:TYR:CD1	2.22	0.74
45:BF:251:ARG:O	45:BF:255:VAL:N	2.19	0.74
44:BG:404:PHE:CE1	45:BH:259:PRO:HA	2.22	0.74
45:BH:97:ALA:CB	45:BH:143:THR:HG22	2.17	0.74
44:BK:15:GLN:NE2	46:BK:501:GTP:O6	2.20	0.74
45:BN:20:PHE:CE2	45:BN:24:ILE:HD13	2.22	0.74
45:CB:11:GLN:HG2	48:CB:501:GDP:H5 <sup>7</sup>	1.68	0.74
45:CD:345:ILE:HG23	45:CD:348:ASN:HB3	1.69	0.74
45:CF:288:GLU:O	45:CF:291:GLN:HG3	1.86	0.74
44:CM:89:PRO:HG3	44:DM:280:LYS:HD2	1.69	0.74
44:CM:246:GLY:HA2	44:CM:357:TYR:CD2	2.22	0.74
44:DA:174:SER:HB2	44:DA:177:VAL:O	1.85	0.74
44:DC:105:ARG:HE	44:DC:110:ILE:CG2	2.00	0.74
44:DC:340:THR:HG23	44:DC:341:ILE:HG13	1.69	0.74
45:DD:350:LYS:HD3	44:DE:180:ALA:HA	1.68	0.74
44:DE:136:LEU:HD22	44:DE:167:LEU:HB2	1.69	0.74
44:DE:248:LEU:HD23	44:DE:353:VAL:HG13	1.69	0.74
45:DF:314:SER:CB	45:DF:350:LYS:HB3	2.16	0.74
45:DH:262:ARG:HG2	45:DH:263:LEU:HD12	1.69	0.74
44:DM:384:ILE:O	44:DM:387:VAL:HG22	1.87	0.74
44:EC:21:TRP:HZ2	44:EC:65:ALA:HB2	1.52	0.74
44:EM:7:ILE:HG23	44:EM:66:VAL:CG2	2.17	0.74
44:FA:64:ARG:HH12	44:FA:128:ASN:HB3	1.51	0.74
44:FA:105:ARG:HG2	44:FA:411:GLU:HG3	1.69	0.74
45:FB:406:MET:O	45:FB:410:GLU:HG3	1.87	0.74
44:FE:276:ILE:HG13	44:FE:280:LYS:HE2	1.68	0.74
45:FF:325:GLU:HA	45:FF:328:GLU:HG2	1.69	0.74
45:FH:318:ARG:HD2	45:FH:358:PRO:HD3	1.69	0.74
44:FI:334:THR:HG22	44:FI:338:LYS:NZ	2.01	0.74
45:FL:19:LYS:HG2	45:FL:226:ASN:HB3	1.69	0.74
45:GF:378:PHE:HB3	45:GF:415:MET:HE2	1.68	0.74
45:GJ:210:ILE:CD1	45:GJ:300:MET:HG3	2.16	0.74
44:GK:348:PRO:HG2	45:GN:387:ALA:HB1	1.69	0.74
44:GM:385:ALA:HA	44:GM:388:PHE:HB2	1.69	0.74
44:HA:161:TYR:CD2	44:HA:164:LYS:HG3	2.22	0.74
45:HB:193:VAL:HA	45:HB:264:HIS:CE1	2.22	0.74
45:HB:215:LEU:HA	45:HB:275:SER:HB3	1.68	0.74
45:HD:86:ARG:HB2	45:HD:89:ASN:HD21	1.51	0.74
44:HG:434:GLU:O	44:HG:437:ILE:HG12	1.86	0.74
45:IL:2:ARG:HH12	45:IL:240:LEU:HG	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:286:VAL:HG12	45:JB:329:GLN:HG3	1.69	0.74
45:JJ:69:GLU:OE2	45:JJ:72:THR:HG23	1.87	0.74
45:JJ:101:TRP:HZ3	45:JJ:187:LEU:HB3	1.51	0.74
44:KA:47:ASP:HB3	44:KA:49:PHE:CD1	2.22	0.74
44:KE:206:ASN:OD1	44:KE:207:GLU:N	2.20	0.74
44:KG:324:VAL:CG2	44:KG:326:LYS:HE3	2.17	0.74
45:KN:167:PHE:CE2	45:KN:233:MET:HG2	2.21	0.74
44:LA:185:TYR:HE2	44:LA:404:PHE:HB2	1.52	0.74
45:LB:107:THR:HG23	45:LB:108:GLU:OE1	1.87	0.74
44:LI:205:ASP:OD1	44:LI:303:ALA:HA	1.88	0.74
44:LM:340:THR:HG23	44:LM:341:ILE:HG13	1.68	0.74
44:LM:423:GLU:O	44:LM:427:ALA:N	2.17	0.74
45:LN:100:ASN:HD21	45:LN:103:LYS:HD3	1.53	0.74
44:MA:184:PRO:O	44:MA:188:ILE:HG12	1.87	0.74
45:MJ:376:GLU:HG3	45:MJ:380:ARG:HH21	1.50	0.74
44:MM:318:MET:N	44:MM:376:CYS:O	2.18	0.74
45:MN:135:ILE:HG13	45:MN:152:ILE:CD1	2.18	0.74
45:NB:133:PHE:O	45:NB:164:MET:HA	1.88	0.74
44:NG:265:ILE:HG12	44:NG:432:TYR:HE1	1.51	0.74
45:NH:177:ASP:N	45:NH:181:GLU:OE2	2.19	0.74
45:NH:252:LYS:O	45:NH:256:ASN:ND2	2.18	0.74
45:NJ:166:THR:OG1	45:NJ:198:GLU:O	2.04	0.74
45:OB:51:TYR:O	45:OB:62:ARG:NH2	2.19	0.74
45:OB:268:ILE:HG22	45:OB:368:VAL:HG22	1.67	0.74
44:OE:221:ARG:NH1	45:OF:325:GLU:OE1	2.20	0.74
45:OH:282:ARG:HH12	45:OH:284:LEU:HD13	1.52	0.74
44:OK:399:TYR:OH	44:OK:415:GLU:OE2	2.05	0.74
45:OL:136:THR:HG22	45:OL:167:PHE:HB2	1.69	0.74
44:PA:387:VAL:HA	44:PA:390:ARG:HG2	1.68	0.74
44:PC:223:THR:HG23	44:PC:225:THR:H	1.51	0.74
45:PF:20:PHE:CG	45:PF:25:SER:CB	2.70	0.74
45:PJ:3:GLU:HG3	45:PJ:62:ARG:HH12	1.51	0.74
44:PK:136:LEU:HD23	44:PK:167:LEU:HG	1.68	0.74
44:PM:76:ASP:OD2	45:PN:46:ARG:NH2	2.21	0.74
44:QA:248:LEU:HD23	44:QA:355:ILE:HD12	1.69	0.74
45:QB:20:PHE:CB	45:QB:233:MET:HE3	2.13	0.74
44:QC:119:LEU:HD13	44:QC:122:ILE:HG13	1.69	0.74
44:QI:54:SER:HB2	44:QI:64:ARG:HH21	1.50	0.74
44:QI:105:ARG:O	44:QI:110:ILE:HG12	1.87	0.74
44:RC:226:ASN:ND2	44:RC:367:ASP:OD2	2.20	0.74
44:RC:284:GLU:HG3	44:RC:286:LEU:CD2	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:326:LYS:HG2	45:RF:220:PRO:HD2	1.68	0.74
44:RI:75:ILE:HG21	44:RI:94:SER:HB2	1.70	0.74
45:RL:5:VAL:O	45:RL:134:GLN:HG2	1.86	0.74
44:SA:372:MET:O	44:SA:373:ARG:NH1	2.17	0.74
45:SD:113:ILE:O	45:SD:117:LEU:N	2.16	0.74
45:SD:217:LEU:HD11	45:SD:220:PRO:CG	2.16	0.74
45:SD:314:SER:N	45:SD:368:VAL:O	2.19	0.74
45:SN:318:ARG:HH11	45:SN:358:PRO:HG3	1.52	0.74
44:TA:168:GLY:O	44:TA:201:ALA:HA	1.87	0.74
45:TH:135:ILE:HG13	45:TH:152:ILE:CD1	2.17	0.74
44:TM:256:GLN:O	45:TN:397:TRP:NE1	2.16	0.74
44:UA:104:ALA:HB2	44:UA:413:MET:HE3	1.70	0.74
45:UF:81:PHE:HB3	45:UF:84:LEU:HD13	1.69	0.74
45:UJ:4:ILE:HB	45:UJ:132:GLY:O	1.86	0.74
44:UK:349:THR:OG1	45:UL:176:SER:OG	1.99	0.74
44:VA:352:LYS:HA	45:VD:177:ASP:O	1.87	0.74
44:VE:49:PHE:O	44:VE:53:PHE:N	2.19	0.74
44:VK:314:ALA:HA	44:VK:350:GLY:HA3	1.67	0.74
44:WA:292:THR:HG21	44:WA:331:SER:CB	2.17	0.74
44:WE:53:PHE:O	44:WE:64:ARG:NH2	2.20	0.74
45:WF:268:ILE:HG22	45:WF:368:VAL:HG22	1.69	0.74
44:WK:68:LEU:HD21	44:WK:118:CYS:SG	2.27	0.74
19:II:132:LYS:NZ	45:KF:279:GLN:OE1	2.15	0.74
26:IR:193:TYR:CD1	44:AC:40:LYS:HG2	2.21	0.74
5:2D:175:THR:HG21	44:EK:72:PRO:HB3	1.68	0.74
14:3U:238:SER:HA	45:WN:33:THR:HG23	1.68	0.74
34:4F:12:SER:HB3	45:GJ:1:MET:HG3	1.67	0.74
38:5F:113:LEU:HD12	38:5F:114:PRO:HD2	1.67	0.74
38:5H:81:MET:HG2	38:5H:96:TYR:HE2	1.50	0.74
39:5I:71:PRO:O	39:5I:75:ILE:HG12	1.87	0.74
35:5R:296:GLY:HA3	45:DJ:276:ARG:CB	2.16	0.74
35:7R:351:ASN:HA	35:7R:370:PRO:HB3	1.70	0.74
44:AC:283:HIS:ND1	44:MC:89:PRO:HD3	2.02	0.74
45:AD:130:LEU:HB3	45:AD:162:ARG:HD2	1.69	0.74
44:AG:276:ILE:HD13	44:AG:281:ALA:HA	1.69	0.74
44:AM:332:ILE:HG23	44:AM:351:PHE:CD2	2.22	0.74
44:BA:34:GLY:O	44:BA:60:LYS:HA	1.87	0.74
45:BD:190:HIS:O	45:BD:193:VAL:HG22	1.87	0.74
44:BG:191:THR:CG2	44:BG:425:LEU:HD21	2.17	0.74
45:BL:22:GLU:HG2	45:BL:81:PHE:CD1	2.22	0.74
45:CB:121:ARG:HG3	45:CB:159:TYR:OH	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:101:ASN:O	44:CC:186:ASN:ND2	2.18	0.74
44:CK:319:TYR:HB2	44:CK:355:ILE:HD13	1.68	0.74
44:DK:103:PHE:HB2	44:DK:186:ASN:CB	2.18	0.74
44:EC:116:ASP:O	44:EC:117:LEU:HD23	1.87	0.74
45:EF:347:ASN:OD1	44:EG:394:LYS:NZ	2.14	0.74
44:EI:69:ASP:OD1	44:EI:70:LEU:N	2.20	0.74
44:EM:390:ARG:O	44:EM:394:LYS:N	2.16	0.74
44:FC:69:ASP:OD1	44:FC:71:GLU:N	2.21	0.74
44:FC:224:TYR:CG	45:FD:323:THR:HG21	2.23	0.74
45:FD:274:THR:CG2	45:FD:279:GLN:HA	2.17	0.74
45:FF:269:GLY:HA2	45:FF:300:MET:HG3	1.69	0.74
45:FH:257:LEU:HA	45:FH:312:THR:HG21	1.69	0.74
45:FN:73:MET:HE3	45:FN:92:PHE:HB3	1.70	0.74
44:GG:257:THR:HG23	45:GJ:397:TRP:CD1	2.22	0.74
45:GH:166:THR:OG1	45:GH:199:CYS:SG	2.46	0.74
45:GH:262:ARG:HH22	45:GH:418:LEU:HA	1.52	0.74
45:GJ:257:LEU:HA	45:GJ:312:THR:HG21	1.69	0.74
44:HA:407:TRP:CH2	45:HB:258:ILE:HB	2.21	0.74
44:HC:191:THR:HA	44:HC:194:LEU:HG	1.70	0.74
45:HH:301:CYS:HB3	45:HH:377:MET:HE1	1.68	0.74
44:HI:15:GLN:O	44:HI:228:ASN:ND2	2.19	0.74
44:HI:31:GLN:HB3	44:HI:32:PRO:HD2	1.69	0.74
44:HM:301:MET:SD	44:HM:302:MET:N	2.60	0.74
44:IC:215:ARG:NH1	44:IC:216:ASN:OD1	2.19	0.74
44:IC:221:ARG:CZ	45:ID:325:GLU:HG2	2.17	0.74
44:II:350:GLY:HA2	45:IL:179:VAL:HG12	1.69	0.74
45:IN:242:PHE:CD1	45:IN:356:ILE:HG13	2.22	0.74
45:JF:217:LEU:HG	45:JF:220:PRO:CD	2.14	0.74
44:KA:47:ASP:HB3	44:KA:49:PHE:HD1	1.51	0.74
45:KB:133:PHE:HB2	45:KB:164:MET:SD	2.28	0.74
44:LA:423:GLU:HA	44:LA:426:ALA:HB3	1.67	0.74
45:LB:322:SER:OG	45:LB:325:GLU:HG3	1.88	0.74
45:LH:7:ILE:HG22	45:LH:64:ILE:HB	1.68	0.74
44:LI:105:ARG:HA	44:LI:109:THR:CG2	2.17	0.74
45:LJ:6:HIS:NE2	45:LJ:8:GLN:OE1	2.20	0.74
45:MB:342:VAL:HG13	45:MB:345:ILE:HG22	1.69	0.74
44:MC:315:CYS:SG	44:MC:379:SER:OG	2.45	0.74
44:MG:145:THR:HG22	46:MG:501:GTP:O2G	1.86	0.74
45:MH:135:ILE:HG13	45:MH:152:ILE:HD11	1.70	0.74
44:NA:205:ASP:OD1	44:NA:303:ALA:HA	1.87	0.74
44:NC:19:ALA:O	44:NC:22:GLU:HG2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:178:THR:O	45:NL:181:GLU:HB2	1.87	0.74
45:NL:286:VAL:HG11	45:NL:325:GLU:CG	2.13	0.74
44:NM:14:ILE:O	44:NM:18:ASN:ND2	2.20	0.74
45:OB:200:MET:HE2	45:OB:266:PHE:HB2	1.68	0.74
45:OB:257:LEU:O	45:OB:259:PRO:HD3	1.86	0.74
45:OB:293:MET:HA	45:OB:298:ASN:ND2	2.03	0.74
45:OD:52:ASN:OD1	45:OD:62:ARG:NH2	2.20	0.74
45:PH:296:ALA:HA	45:PH:299:MET:CE	2.17	0.74
45:RB:24:ILE:O	45:RB:27:GLU:HG2	1.87	0.74
44:RG:72:PRO:HG3	44:RG:95:GLY:O	1.88	0.74
44:RK:258:ASN:ND2	44:RK:352:LYS:HD3	2.02	0.74
45:RL:314:SER:HB2	45:RL:350:LYS:HB3	1.69	0.74
44:SA:192:HIS:ND1	44:SA:424:ASP:OD2	2.19	0.74
44:SE:76:ASP:HA	44:SE:79:ARG:HG2	1.69	0.74
44:SG:31:GLN:HG2	44:SG:37:PRO:HG3	1.69	0.74
44:SM:248:LEU:HB2	44:SM:355:ILE:HD12	1.70	0.74
45:SN:313:ALA:HA	45:SN:369:GLY:HA2	1.69	0.74
44:TE:185:TYR:HA	44:TE:395:PHE:HE1	1.52	0.74
44:TG:106:GLY:O	44:TG:149:LEU:HD22	1.87	0.74
45:TH:184:ASN:OD1	45:TH:185:ALA:N	2.20	0.74
44:TI:129:CYS:HB2	44:TI:132:LEU:HD21	1.69	0.74
45:TJ:71:GLY:O	45:TJ:75:SER:N	2.16	0.74
45:UB:310:TYR:HB2	45:UB:341:PHE:CE1	2.22	0.74
44:UE:272:TYR:HD1	44:UE:376:CYS:HB2	1.52	0.74
44:UE:401:LYS:HE2	44:UE:403:ALA:HB2	1.70	0.74
45:UF:19:LYS:O	45:UF:22:GLU:HG2	1.86	0.74
45:UN:1:MET:O	45:UN:2:ARG:HG2	1.87	0.74
44:VA:186:ASN:O	44:VA:190:SER:OG	2.03	0.74
44:VG:407:TRP:CZ3	45:VH:255:VAL:HA	2.21	0.74
45:VH:399:THR:HA	45:VH:403:MET:O	1.85	0.74
44:VI:246:GLY:HA2	44:VI:357:TYR:CE2	2.22	0.74
45:WD:7:ILE:HB	45:WD:135:ILE:CD1	2.16	0.74
45:WH:1:MET:O	45:WH:2:ARG:HG2	1.87	0.74
45:WJ:292:GLN:HA	45:WJ:295:ASP:HB2	1.68	0.74
45:WL:22:GLU:HG2	45:WL:81:PHE:HD2	1.50	0.74
45:WL:260:PHE:CB	45:WL:263:LEU:HD13	2.16	0.74
1:6H:369:SER:CA	45:FL:360:GLY:O	2.35	0.74
21:1K:215:VAL:HG21	44:GA:370:LYS:CE	2.05	0.74
13:1T:74:ILE:HD12	44:MC:159:VAL:HG23	1.69	0.74
5:2D:57:THR:HG22	44:EK:219:ILE:HD11	1.66	0.74
36:5S:65:PHE:CE2	36:5S:120:ALA:HB2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:66:THR:HG22	45:MN:39:ASP:C	2.08	0.74
35:6R:401:VAL:HG23	45:EN:277:GLY:N	2.00	0.74
35:6R:436:GLU:OE2	45:FN:280:GLN:CB	2.24	0.74
35:7R:527:ASP:OD2	35:7R:530:TYR:N	2.20	0.74
44:AA:21:TRP:O	44:AA:25:CYS:N	2.17	0.74
44:AE:132:LEU:HD11	44:AE:164:LYS:HG2	1.68	0.74
45:BF:274:THR:HG21	45:BF:279:GLN:HA	1.69	0.74
44:BG:14:ILE:HD11	44:BG:69:ASP:HB2	1.69	0.74
44:BI:89:PRO:CG	44:CI:280:LYS:HG2	2.16	0.74
45:BL:178:THR:N	45:BL:181:GLU:OE2	2.20	0.74
45:BN:350:LYS:HD3	45:BN:351:SER:H	1.52	0.74
44:CC:191:THR:O	44:CC:195:LEU:N	2.21	0.74
44:CC:256:GLN:HG2	45:CD:397:TRP:CZ3	2.22	0.74
45:CH:152:ILE:HD12	45:CH:164:MET:CE	2.17	0.74
45:CJ:324:LYS:HE3	44:CK:210:TYR:CZ	2.22	0.74
44:CK:14:ILE:HD11	44:CK:69:ASP:HB2	1.69	0.74
44:CK:88:HIS:CE1	44:CK:90:GLU:HG2	2.23	0.74
44:CK:348:PRO:HB2	45:CL:384:GLN:OE1	1.87	0.74
44:CM:318:MET:HB3	44:CM:376:CYS:SG	2.28	0.74
45:CN:316:LEU:HB2	45:CN:366:THR:HG22	1.67	0.74
45:DD:144:GLY:N	48:DD:501:GDP:O1B	2.13	0.74
44:DK:196:GLU:OE2	44:DK:264:ARG:NH1	2.20	0.74
44:EA:278:ALA:HA	44:EA:369:ALA:HB2	1.70	0.74
45:EB:150:LEU:HD21	45:EB:154:LYS:HE2	1.70	0.74
45:EB:350:LYS:HD3	45:EB:351:SER:N	2.02	0.74
44:EE:369:ALA:O	44:EE:371:VAL:HG13	1.88	0.74
45:EH:230:SER:HA	45:EH:233:MET:CE	2.18	0.74
45:EJ:178:THR:HB	45:EJ:181:GLU:HG3	1.70	0.74
44:FA:174:SER:CB	44:FA:177:VAL:HB	2.17	0.74
45:FB:240:LEU:HD13	45:FB:250:LEU:HG	1.66	0.74
44:FG:10:GLY:O	44:FG:14:ILE:HD12	1.87	0.74
45:FJ:86:ARG:NH1	45:GJ:281:TYR:HB2	2.01	0.74
44:GA:222:PRO:CD	45:GB:324:LYS:HZ3	2.00	0.74
45:GB:60:VAL:HG21	45:GB:86:ARG:HG2	1.69	0.74
45:GB:65:LEU:HD22	45:GB:90:PHE:HE1	1.51	0.74
44:GC:89:PRO:HB2	44:HC:280:LYS:NZ	2.02	0.74
45:GF:130:LEU:HD23	45:GF:162:ARG:HG3	1.69	0.74
44:GG:132:LEU:HD11	44:GG:135:PHE:HE2	1.52	0.74
44:GK:37:PRO:HD2	44:GK:40:LYS:HE2	1.70	0.74
44:HA:294:SER:O	44:HA:300:ASN:ND2	2.20	0.74
44:HA:329:ASN:ND2	45:HD:175:VAL:HG12	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:84:ARG:NH1	44:HC:85:GLN:HG2	2.03	0.74
44:HG:209:ILE:HG12	44:HG:302:MET:CE	2.17	0.74
45:HH:62:ARG:HH12	45:HH:127:CYS:HB3	1.52	0.74
44:HI:186:ASN:OD1	44:HI:187:SER:N	2.20	0.74
44:HK:248:LEU:HB3	44:HK:355:ILE:HD13	1.67	0.74
45:IF:11:GLN:HB3	45:IF:72:THR:CG2	2.16	0.74
44:IM:115:VAL:HG23	44:IM:153:LEU:HD23	1.68	0.74
44:JA:88:HIS:HE1	44:JA:90:GLU:HG2	1.51	0.74
45:JB:267:MET:HE1	45:JB:373:ALA:HB3	1.68	0.74
45:JD:189:VAL:HG11	45:JD:415:MET:HE1	1.68	0.74
45:JJ:86:ARG:NH2	45:JJ:123:GLU:OE1	2.20	0.74
45:JN:325:GLU:O	45:JN:329:GLN:N	2.15	0.74
45:KB:137:HIS:O	45:KB:168:SER:HA	1.87	0.74
44:KC:192:HIS:ND1	44:KC:424:ASP:OD2	2.20	0.74
45:KF:190:HIS:O	45:KF:193:VAL:HG12	1.88	0.74
45:KH:54:ALA:HA	45:LH:283:ALA:HB2	1.68	0.74
45:KN:395:LEU:HD21	45:KN:399:THR:HG21	1.68	0.74
44:LG:105:ARG:O	44:LG:110:ILE:HG22	1.87	0.74
44:LG:399:TYR:OH	44:LG:402:ARG:NH1	2.21	0.74
45:LL:107:THR:OG1	45:LL:108:GLU:OE1	2.05	0.74
44:MC:64:ARG:NH2	44:MC:129:CYS:SG	2.60	0.74
44:ME:223:THR:OG1	45:MF:322:SER:HB3	1.86	0.74
45:MF:230:SER:HA	45:MF:233:MET:HE3	1.70	0.74
44:MG:24:PHE:O	44:MG:27:GLU:HG2	1.86	0.74
45:MN:271:ALA:HB1	45:MN:272:PRO:HA	1.68	0.74
45:NB:313:ALA:HB1	45:NB:367:PHE:HE1	1.51	0.74
44:NI:175:PRO:HD2	44:NI:207:GLU:OE1	1.87	0.74
44:OA:392:ASP:HB2	44:OA:425:LEU:HD23	1.68	0.74
45:OB:319:GLY:HA2	45:OB:357:PRO:CG	2.15	0.74
45:OF:320:ARG:HH22	45:OF:355:ASP:CA	2.00	0.74
44:OG:182:VAL:HG22	44:OG:185:TYR:HB2	1.68	0.74
44:OG:224:TYR:HA	44:OG:227:LEU:CD1	2.17	0.74
44:OK:288:VAL:HA	44:OK:291:ILE:HG22	1.68	0.74
45:PD:102:ALA:HB1	45:PD:401:GLU:HB2	1.68	0.74
44:PE:7:ILE:HA	44:PE:66:VAL:CG1	2.17	0.74
45:PH:86:ARG:HB3	45:PH:89:ASN:ND2	2.01	0.74
45:PH:286:VAL:HG12	45:PH:287:PRO:HD3	1.70	0.74
45:PH:309:ARG:NH2	45:PH:426:GLN:O	2.19	0.74
44:PK:9:VAL:HG13	44:PK:139:ASN:HB3	1.68	0.74
45:PL:131:GLN:HA	45:PL:162:ARG:NH2	2.02	0.74
45:PL:318:ARG:HH11	45:PL:358:PRO:HG3	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:205:ASP:OD1	44:PM:303:ALA:HA	1.88	0.74
45:QB:97:ALA:CB	45:QB:143:THR:HB	2.16	0.74
45:QD:322:SER:OG	44:QE:221:ARG:HG2	1.87	0.74
44:QE:147:SER:OG	44:QE:190:SER:HB3	1.87	0.74
45:QJ:3:GLU:HG3	45:QJ:62:ARG:NH1	2.02	0.74
44:QM:419:SER:HB3	44:QM:422:ARG:NH1	2.02	0.74
44:RE:316:SER:HA	44:RE:352:LYS:HG2	1.68	0.74
45:RH:107:THR:O	45:RH:111:GLU:HB2	1.87	0.74
44:RM:9:VAL:CG2	44:RM:153:LEU:HD11	2.17	0.74
44:RM:320:ARG:HG2	44:RM:374:ALA:O	1.88	0.74
45:RN:273:LEU:H	45:RN:292:GLN:HE22	1.35	0.74
44:SC:206:ASN:HA	44:SC:209:ILE:HD12	1.70	0.74
44:SE:325:PRO:HG2	45:SF:222:TYR:CZ	2.22	0.74
44:SG:274:PRO:HD2	44:SG:374:ALA:HA	1.69	0.74
45:SH:266:PHE:CD1	45:SH:370:ASN:HB2	2.23	0.74
44:SI:261:PRO:HG3	45:SJ:394:PHE:CE1	2.20	0.74
44:SK:101:ASN:HA	44:SK:144:GLY:HA3	1.69	0.74
44:SK:188:ILE:HG22	44:SK:421:ALA:HB1	1.69	0.74
45:TB:296:ALA:HA	45:TB:299:MET:CE	2.17	0.74
44:TC:291:ILE:O	44:TC:294:SER:OG	2.03	0.74
45:TF:223:GLY:O	45:TF:227:HIS:N	2.21	0.74
45:TF:378:PHE:HA	45:TF:381:VAL:HG12	1.69	0.74
45:TJ:255:VAL:HA	44:TK:407:TRP:HZ3	1.51	0.74
45:UB:21:TRP:CZ2	45:UB:63:ALA:HB2	2.23	0.74
45:UD:319:GLY:HA2	45:UD:357:PRO:HG3	1.69	0.74
44:UM:237:SER:OG	44:UM:320:ARG:NH2	2.20	0.74
45:VH:49:VAL:HG21	45:VH:241:ARG:HG2	1.68	0.74
44:WC:311:LYS:HE2	44:WC:342:GLN:NE2	2.03	0.74
44:WG:320:ARG:HD3	44:WG:360:PRO:HG3	1.68	0.74
45:WH:370:ASN:OD1	45:WH:422:TYR:OH	2.04	0.74
44:WK:152:LEU:HD12	44:WK:156:ARG:HH12	1.51	0.74
45:WN:99:ASN:HA	45:WN:142:GLY:HA3	1.67	0.74
5:1D:37:GLN:HA	44:DG:84:ARG:NH2	2.02	0.74
19:1I:165:VAL:HA	44:KE:245:ASP:OD2	1.85	0.74
10:1N:247:GLN:HE21	44:KG:2:ARG:HH12	1.36	0.74
31:2H:199:GLU:OE1	45:AD:245:GLN:NE2	2.11	0.74
37:5D:34:PHE:CD1	44:KK:430:LYS:O	2.40	0.74
36:5S:111:GLU:HG2	36:5S:116:TYR:CB	2.17	0.74
36:5S:191:ASN:HB2	36:5S:241:ILE:HG22	1.69	0.74
35:6R:80:ARG:NH2	44:MM:38:SER:N	1.98	0.74
35:7R:80:ARG:NH2	44:MA:36:MET:O	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:322:THR:OG1	35:7R:324:LYS:HG2	1.88	0.74
44:AE:88:HIS:CE1	44:AE:90:GLU:HG2	2.23	0.74
44:AG:76:ASP:OD1	44:AG:79:ARG:NH2	2.21	0.74
45:AH:40:SER:N	45:AH:43:GLN:OE1	2.17	0.74
45:AN:286:VAL:CG2	45:AN:287:PRO:HD3	2.18	0.74
44:BC:55:GLU:OE2	44:BC:57:GLY:N	2.21	0.74
45:BF:222:TYR:O	45:BF:226:ASN:ND2	2.20	0.74
44:BM:176:GLN:NE2	44:BM:207:GLU:OE2	2.20	0.74
44:BM:315:CYS:O	44:BM:351:PHE:HA	1.88	0.74
45:BN:137:HIS:O	45:BN:168:SER:HA	1.88	0.74
45:BN:222:TYR:O	45:BN:226:ASN:ND2	2.20	0.74
44:CA:239:THR:OG1	44:CA:243:ARG:NH2	2.16	0.74
45:CB:105:HIS:HB2	45:CB:146:GLY:HA3	1.67	0.74
45:CB:296:ALA:HA	45:CB:305:PRO:HG2	1.69	0.74
45:CD:70:PRO:O	45:CD:74:ASP:N	2.18	0.74
44:CE:252:ILE:HA	44:CE:255:PHE:CD2	2.21	0.74
45:CF:249:ASP:OD1	45:CF:252:LYS:N	2.17	0.74
45:CJ:52:ASN:HD21	45:CJ:62:ARG:HD3	1.51	0.74
44:CK:288:VAL:CA	44:CK:291:ILE:HG12	2.12	0.74
44:CM:88:HIS:CE1	44:CM:90:GLU:HG2	2.23	0.74
45:DD:288:GLU:O	45:DD:291:GLN:HG3	1.87	0.74
44:DE:265:ILE:HG13	44:DE:432:TYR:HE1	1.52	0.74
45:DF:372:THR:O	45:DF:375:GLN:HG2	1.87	0.74
44:DG:319:TYR:HD2	44:DG:323:VAL:HG21	1.52	0.74
45:DH:413:SER:O	45:DH:417:ASP:N	2.16	0.74
45:DL:309:ARG:N	45:DL:372:THR:OG1	2.21	0.74
44:DM:298:PRO:O	44:DM:301:MET:HE2	1.87	0.74
44:EE:264:ARG:HH22	44:EE:428:LEU:CA	2.01	0.74
45:EF:159:TYR:HB3	45:EF:162:ARG:HG3	1.69	0.74
44:EG:200:VAL:HG13	44:EG:268:MET:HE1	1.69	0.74
45:EJ:242:PHE:CD2	45:EJ:356:ILE:HG13	2.19	0.74
44:EK:205:ASP:OD1	44:EK:303:ALA:HA	1.87	0.74
45:FD:286:VAL:HA	45:FD:289:LEU:HD12	1.68	0.74
44:FE:174:SER:HB2	44:FE:177:VAL:O	1.88	0.74
44:FI:323:VAL:HG23	44:FI:373:ARG:HH22	1.53	0.74
45:FN:49:VAL:HG11	45:FN:241:ARG:HG2	1.70	0.74
45:GD:12:CYS:O	45:GD:16:ILE:N	2.19	0.74
44:GE:97:GLU:HG2	44:GE:105:ARG:HH22	1.52	0.74
44:GE:265:ILE:HG12	44:GE:432:TYR:HE1	1.53	0.74
45:GF:1:MET:O	45:GF:2:ARG:HG2	1.86	0.74
44:GG:70:LEU:HD13	44:GG:145:THR:OG1	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:289:LEU:HD13	45:GL:365:VAL:HG23	1.70	0.74
44:GM:217:LEU:O	44:GM:219:ILE:HD12	1.88	0.74
45:GN:99:ASN:ND2	45:GN:141:GLY:HA2	2.03	0.74
44:HE:258:ASN:HA	45:HH:179:VAL:HG21	1.70	0.74
44:HM:241:SER:HB3	44:HM:242:LEU:CB	2.13	0.74
45:IB:40:SER:OG	45:IB:43:GLN:HG2	1.85	0.74
45:IB:282:ARG:NH1	45:IB:284:LEU:HG	2.02	0.74
45:IF:314:SER:HB2	45:IF:350:LYS:HB3	1.69	0.74
44:II:1:MET:HE2	45:IL:94:GLN:CB	2.17	0.74
45:IJ:2:ARG:HG2	45:IJ:240:LEU:HD21	1.69	0.74
44:IM:100:ALA:O	45:IN:255:VAL:HG21	1.86	0.74
44:IM:205:ASP:OD2	44:IM:304:LYS:N	2.19	0.74
44:JA:296:PHE:HE2	44:JA:335:ILE:HG21	1.53	0.74
45:JD:286:VAL:HG12	45:JD:329:GLN:HG3	1.67	0.74
45:JF:324:LYS:NZ	45:JF:328:GLU:OE1	2.21	0.74
44:JK:261:PRO:HG2	44:JK:313:MET:HE1	1.69	0.74
45:JN:73:MET:O	45:JN:76:VAL:HG12	1.87	0.74
44:LA:213:CYS:HA	44:LA:217:LEU:HD13	1.68	0.74
44:LC:167:LEU:HD11	44:LC:252:ILE:HD11	1.67	0.74
44:LG:5:ILE:HD12	44:LG:135:PHE:HE1	1.52	0.74
44:LG:37:PRO:O	44:LG:40:LYS:HG3	1.87	0.74
44:LI:36:MET:SD	44:LI:40:LYS:NZ	2.61	0.74
44:MK:174:SER:HB2	44:MK:177:VAL:O	1.86	0.74
44:MK:205:ASP:OD2	44:MK:304:LYS:N	2.18	0.74
44:MK:316:SER:CB	44:MK:352:LYS:HB3	2.18	0.74
45:MN:32:PRO:HG3	45:MN:81:PHE:CE1	2.18	0.74
45:MN:62:ARG:HH12	45:MN:127:CYS:HB3	1.50	0.74
44:NE:28:HIS:CD2	44:NE:49:PHE:HB3	2.22	0.74
45:NH:44:LEU:O	45:NH:47:ILE:HG22	1.88	0.74
44:NI:11:GLN:NE2	45:NJ:245:GLN:O	2.20	0.74
44:NI:100:ALA:HB1	45:NJ:252:LYS:HA	1.69	0.74
45:NL:221:THR:N	45:NL:224:ASP:OD2	2.20	0.74
45:OF:86:ARG:HD2	45:OF:89:ASN:OD1	1.87	0.74
44:OG:292:THR:HG21	44:OG:331:SER:HB3	1.69	0.74
44:OK:141:VAL:HG23	44:OK:190:SER:HB3	1.70	0.74
45:OL:101:TRP:CZ3	45:OL:187:LEU:HB3	2.22	0.74
45:PB:251:ARG:O	45:PB:255:VAL:N	2.21	0.74
44:PC:4:VAL:HG12	44:PC:133:GLN:HB2	1.70	0.74
44:PG:384:ILE:O	44:PG:387:VAL:HG22	1.87	0.74
45:PJ:32:PRO:HA	45:PJ:84:LEU:HD11	1.70	0.74
45:PN:3:GLU:OE2	45:PN:62:ARG:HD2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:42:LEU:HA	45:PN:45:GLU:HG3	1.70	0.74
45:QB:63:ALA:O	45:QB:89:ASN:ND2	2.21	0.74
44:QE:141:VAL:HG11	44:QE:172:TYR:HD1	1.52	0.74
44:QE:424:ASP:O	44:QE:428:LEU:N	2.20	0.74
45:QH:311:LEU:HD23	45:QH:342:VAL:HG21	1.68	0.74
44:QI:60:LYS:NZ	44:QI:85:GLN:O	2.19	0.74
45:QL:347:ASN:O	44:QM:181:VAL:HG12	1.88	0.74
45:RB:263:LEU:HG	45:RB:422:TYR:CD1	2.23	0.74
44:RE:69:ASP:OD1	44:RE:70:LEU:N	2.20	0.74
45:RF:164:MET:HB2	45:RF:197:ASP:H	1.52	0.74
44:RI:10:GLY:HA2	44:RI:145:THR:HG21	1.70	0.74
45:RJ:247:ASN:HD21	44:RK:71:GLU:HG3	1.52	0.74
44:RK:124:LYS:HA	44:RK:127:ASP:OD2	1.87	0.74
45:RL:3:GLU:O	45:RL:131:GLN:N	2.19	0.74
44:SC:212:ILE:HD11	44:SC:300:ASN:HA	1.68	0.74
44:SE:112:LYS:HA	44:SE:115:VAL:HG12	1.69	0.74
45:SJ:49:VAL:HG11	45:SJ:241:ARG:HD3	1.69	0.74
44:SK:89:PRO:HB2	44:TK:280:LYS:HE3	1.69	0.74
44:SM:9:VAL:HA	44:SM:68:LEU:HB2	1.68	0.74
44:TA:146:GLY:O	44:TA:150:GLY:N	2.18	0.74
45:TB:272:PRO:HD2	45:TB:364:ALA:HA	1.70	0.74
44:TC:247:ALA:HB1	45:TD:222:TYR:CD2	2.21	0.74
45:TD:406:MET:O	45:TD:410:GLU:N	2.20	0.74
44:TG:284:GLU:HG3	44:TG:286:LEU:CD2	2.17	0.74
44:TI:422:ARG:O	44:TI:426:ALA:N	2.19	0.74
44:TM:171:ILE:HG23	44:TM:204:LEU:O	1.87	0.74
44:TM:284:GLU:HG3	44:TM:286:LEU:CD2	2.18	0.74
44:UC:118:CYS:O	44:UC:122:ILE:N	2.15	0.74
44:UE:251:ASP:HB2	44:UE:254:GLU:OE1	1.87	0.74
44:UG:285:GLN:O	44:UG:373:ARG:NH2	2.20	0.74
45:VB:55:THR:HG23	45:WB:283:ALA:HA	1.69	0.74
45:VB:342:VAL:HG12	45:VB:348:ASN:HD22	1.52	0.74
44:VE:202:VAL:HG13	44:VE:204:LEU:HD11	1.70	0.74
44:VG:242:LEU:HD11	44:VG:252:ILE:HG13	1.70	0.74
45:VH:178:THR:N	45:VH:181:GLU:OE2	2.19	0.74
44:VI:189:LEU:HD11	44:VI:418:PHE:CZ	2.23	0.74
45:VJ:97:ALA:HB3	45:VJ:143:THR:CG2	2.14	0.74
45:WB:134:GLN:HA	45:WB:165:GLU:O	1.88	0.74
45:WF:42:LEU:HD23	45:WF:243:PRO:HD2	1.67	0.74
44:WK:105:ARG:HD2	45:WL:251:ARG:HH22	1.52	0.74
45:WN:113:ILE:CD1	45:WN:150:LEU:HD22	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:187:LEU:O	45:WN:191:GLN:NE2	2.21	0.74
2:1A:91:ASN:HB3	45:MF:37:HIS:NE2	2.02	0.74
2:2A:109:ASP:OD2	45:AJ:276:ARG:NH2	2.17	0.74
26:2R:300:LYS:NZ	44:CG:245:ASP:OD1	2.20	0.74
38:5F:90:SER:OG	45:KF:194:GLU:O	2.05	0.74
35:6R:38:HIS:HB3	45:LN:92:PHE:CE2	2.21	0.74
35:7R:455:VAL:CB	35:7R:471:LEU:HB2	2.14	0.74
45:AD:242:PHE:CB	45:AD:356:ILE:HD13	2.13	0.74
44:BC:88:HIS:CE1	44:BC:90:GLU:HG2	2.23	0.74
45:BD:288:GLU:O	45:BD:291:GLN:HG3	1.86	0.74
45:BF:286:VAL:HG11	45:BF:325:GLU:CG	2.17	0.74
44:BG:292:THR:HG21	44:BG:331:SER:HB3	1.67	0.74
44:BI:191:THR:HB	44:BI:425:LEU:HD21	1.68	0.74
44:BI:407:TRP:CZ3	45:BJ:255:VAL:HA	2.23	0.74
44:CA:317:MET:O	44:CA:318:MET:HE2	1.87	0.74
45:CD:202:ILE:HD13	45:CD:229:VAL:HG22	1.69	0.74
44:DA:203:MET:O	44:DA:303:ALA:HB2	1.88	0.74
44:DK:408:TYR:HB3	44:DK:413:MET:HE2	1.70	0.74
45:DL:178:THR:HG21	45:DL:180:VAL:HG12	1.69	0.74
44:EC:7:ILE:O	44:EC:137:VAL:HA	1.87	0.74
44:EK:22:GLU:HG3	44:EK:83:TYR:CE2	2.22	0.74
44:EM:422:ARG:O	44:EM:426:ALA:N	2.18	0.74
45:FD:320:ARG:O	45:FD:321:MET:HG3	1.86	0.74
44:FG:264:ARG:CZ	44:FG:428:LEU:HD13	2.18	0.74
45:FH:200:MET:CE	45:FH:266:PHE:HB2	2.17	0.74
45:FJ:341:PHE:HB3	45:FJ:348:ASN:HD21	1.53	0.74
44:FK:166:LYS:N	44:FK:199:ASP:OD2	2.21	0.74
45:FL:36:TYR:CE2	45:FL:44:LEU:HD11	2.23	0.74
44:GA:76:ASP:OD2	45:GB:46:ARG:NH2	2.20	0.74
45:GB:8:GLN:NE2	45:GB:14:ASN:HA	2.03	0.74
44:GC:16:VAL:O	44:GC:20:CYS:N	2.20	0.74
44:GC:104:ALA:HB2	44:GC:413:MET:HE3	1.69	0.74
45:GD:370:ASN:OD1	45:GD:422:TYR:OH	2.05	0.74
44:GE:268:MET:HB3	44:GE:380:ASN:HB2	1.69	0.74
44:GM:297:GLU:HB2	44:GM:300:ASN:ND2	2.03	0.74
44:HA:14:ILE:HG12	44:HA:75:ILE:HD11	1.68	0.74
45:HB:66:MET:HA	45:HB:91:VAL:HG23	1.70	0.74
44:HC:64:ARG:NH2	44:HC:128:ASN:OD1	2.21	0.74
45:IF:24:ILE:O	45:IF:27:GLU:HG2	1.87	0.74
45:IH:140:GLY:O	45:IH:184:ASN:ND2	2.20	0.74
44:II:1:MET:HE3	45:IL:70:PRO:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:1:MET:O	45:IJ:2:ARG:HD3	1.86	0.74
44:JA:260:VAL:HB	45:JD:397:TRP:CZ2	2.23	0.74
44:JG:175:PRO:HG3	44:JG:390:ARG:CZ	2.17	0.74
45:JH:203:ASP:OD2	45:JH:302:ALA:N	2.20	0.74
45:JH:279:GLN:HB3	45:JH:280:GLN:OE1	1.87	0.74
45:JJ:342:VAL:HG23	45:JJ:345:ILE:HG22	1.69	0.74
44:KA:241:SER:OG	44:KA:250:VAL:O	2.01	0.74
44:KA:384:ILE:O	44:KA:387:VAL:HG12	1.88	0.74
45:KB:62:ARG:HD2	45:KB:62:ARG:O	1.87	0.74
44:KE:210:TYR:CE1	44:KE:227:LEU:HD11	2.23	0.74
44:KE:265:ILE:HD12	44:KE:432:TYR:CE1	2.23	0.74
45:KJ:229:VAL:O	45:KJ:233:MET:HG2	1.87	0.74
44:KM:49:PHE:HZ	44:KM:55:GLU:HB2	1.52	0.74
44:LG:176:GLN:NE2	44:LG:207:GLU:OE2	2.20	0.74
45:LH:187:LEU:HD11	45:LH:408:PHE:CE1	2.22	0.74
44:MC:3:GLU:OE2	44:MC:129:CYS:HB3	1.87	0.74
44:ME:119:LEU:HD12	44:ME:156:ARG:HG2	1.68	0.74
44:NE:54:SER:HB3	44:NE:64:ARG:HH12	1.52	0.74
44:NE:256:GLN:OE1	44:NE:256:GLN:N	2.19	0.74
45:OB:6:HIS:HA	45:OB:134:GLN:HG3	1.68	0.74
45:OF:320:ARG:NH2	45:OF:355:ASP:OD1	2.21	0.74
45:OF:344:TRP:HE3	45:OF:345:ILE:HG23	1.50	0.74
44:OI:262:TYR:HA	45:OL:396:HIS:CE1	2.23	0.74
45:OJ:86:ARG:HB3	45:OJ:89:ASN:ND2	2.03	0.74
45:OL:330:MET:CE	45:OL:349:ILE:HG21	2.18	0.74
44:PC:403:ALA:HA	45:PD:260:PHE:CE1	2.22	0.74
45:PF:20:PHE:CE1	45:PF:26:ASP:N	2.55	0.74
45:PF:237:THR:HG23	45:PF:241:ARG:HH21	1.53	0.74
44:PG:222:PRO:HG3	45:PH:324:LYS:HD3	1.67	0.74
45:PJ:268:ILE:CG2	45:PJ:368:VAL:HG22	2.17	0.74
45:QB:302:ALA:HB3	45:QB:377:MET:HE1	1.68	0.74
44:QC:104:ALA:HB1	44:QC:411:GLU:HB2	1.68	0.74
44:QK:10:GLY:O	44:QK:14:ILE:HD12	1.88	0.74
44:QK:352:LYS:HZ1	45:QL:179:VAL:H	1.33	0.74
45:QL:64:ILE:HA	45:QL:89:ASN:HB3	1.69	0.74
45:QL:387:ALA:O	45:QL:390:ARG:HG2	1.86	0.74
44:QM:97:GLU:HG2	44:QM:105:ARG:HH22	1.52	0.74
45:RD:28:HIS:NE2	45:RD:241:ARG:HD2	2.01	0.74
44:RE:70:LEU:HD11	44:RE:149:LEU:HD21	1.70	0.74
45:RH:22:GLU:HG2	45:RH:81:PHE:CG	2.22	0.74
44:RK:88:HIS:CE1	44:RK:90:GLU:HG2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:226:ASN:O	44:RM:230:LEU:HD23	1.87	0.74
45:RN:228:LEU:O	45:RN:232:ALA:N	2.18	0.74
45:RN:286:VAL:HB	45:RN:287:PRO:CD	2.18	0.74
44:SC:254:GLU:HG2	45:SD:98:GLY:CA	2.14	0.74
44:SG:305:CYS:O	44:SG:307:PRO:HD3	1.86	0.74
45:SH:73:MET:HA	45:SH:76:VAL:HG22	1.69	0.74
45:SL:114:ASP:O	45:SL:118:ASP:N	2.16	0.74
45:SN:215:LEU:CD2	45:SN:273:LEU:HB3	2.16	0.74
45:SN:268:ILE:HG12	45:SN:300:MET:HE1	1.69	0.74
44:TA:248:LEU:CD2	44:TA:353:VAL:HG13	2.17	0.74
44:TC:387:VAL:HA	44:TC:390:ARG:HH11	1.50	0.74
45:TF:10:GLY:O	45:TF:14:ASN:ND2	2.20	0.74
44:TG:236:SER:O	44:TG:240:ALA:N	2.20	0.74
44:TK:289:ALA:HA	44:TK:292:THR:HG22	1.69	0.74
45:TL:7:ILE:HB	45:TL:135:ILE:CD1	2.18	0.74
45:TL:55:THR:HG23	45:UL:283:ALA:HA	1.70	0.74
45:TN:268:ILE:HG22	45:TN:368:VAL:HG22	1.69	0.74
44:UA:172:TYR:CE2	44:UA:203:MET:HA	2.22	0.74
44:UE:258:ASN:ND2	44:UE:352:LYS:HD3	2.03	0.74
44:UK:434:GLU:O	44:UK:437:ILE:HG12	1.85	0.74
44:UM:313:MET:HE2	44:UM:382:THR:HG22	1.69	0.74
45:VB:215:LEU:HD22	45:VB:217:LEU:CB	2.15	0.74
45:VD:68:LEU:HG	45:VD:96:GLY:H	1.53	0.74
45:VJ:206:ALA:HA	45:VJ:209:ASP:HB3	1.70	0.74
45:VL:373:ALA:HA	45:VL:375:GLN:HE22	1.53	0.74
44:WA:407:TRP:CZ3	45:WB:255:VAL:HA	2.23	0.74
44:WG:224:TYR:HD1	44:WG:227:LEU:HD12	1.53	0.74
45:WN:313:ALA:HB3	45:WN:349:ILE:HG23	1.69	0.74
3:OB:79:PHE:HA	45:JH:356:ILE:CD1	2.16	0.74
5:1D:164:PRO:CD	45:EF:40:SER:HA	2.17	0.74
20:1J:321:ARG:NH2	44:HK:57:GLY:O	2.20	0.74
25:1P:265:ARG:NH1	45:TF:218:THR:OG1	2.19	0.74
2:3A:93:PHE:HD2	45:MN:33:THR:HG21	1.52	0.74
31:3H:183:PHE:CZ	45:AH:228:LEU:HG	2.21	0.74
26:3R:8:LEU:HD11	45:MN:361:LEU:HD23	1.69	0.74
12:3S:184:PRO:HG3	44:WK:127:ASP:HB3	1.68	0.74
35:4R:301:PRO:CD	45:CF:77:ARG:HH22	2.00	0.74
38:5G:173:LYS:NZ	45:KL:262:ARG:HA	2.03	0.74
35:5R:314:ILE:HG12	35:5R:326:GLU:HB3	1.70	0.74
45:AB:7:ILE:HB	45:AB:135:ILE:CD1	2.16	0.74
45:AB:133:PHE:HB2	45:AB:164:MET:CE	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:319:GLY:N	45:AB:354:CYS:O	2.19	0.74
45:AB:389:PHE:O	45:AB:392:LYS:NZ	2.17	0.74
45:AF:100:ASN:HD21	45:AF:102:ALA:HB3	1.53	0.74
44:AK:75:ILE:O	44:AK:78:VAL:HG12	1.88	0.74
44:BI:284:GLU:HG3	44:BI:286:LEU:HD22	1.70	0.74
45:BJ:1:MET:HE3	45:BJ:129:CYS:HB2	1.69	0.74
45:BJ:256:ASN:HD22	45:BJ:350:LYS:HD2	1.53	0.74
44:BK:76:ASP:OD2	45:BL:46:ARG:NH2	2.20	0.74
45:CB:131:GLN:O	45:CB:163:ILE:HG12	1.88	0.74
44:CE:102:ASN:ND2	44:CE:407:TRP:O	2.17	0.74
44:CE:324:VAL:HG13	44:CE:325:PRO:HD2	1.67	0.74
44:DK:292:THR:HG21	44:DK:331:SER:CB	2.13	0.74
45:EF:238:CYS:HB2	45:EF:318:ARG:NH2	2.03	0.74
45:EH:325:GLU:O	45:EH:329:GLN:HB2	1.88	0.74
44:EK:137:VAL:HG12	44:EK:167:LEU:O	1.87	0.74
45:EL:11:GLN:HG3	45:EL:72:THR:OG1	1.88	0.74
44:EM:225:THR:O	44:EM:229:ARG:N	2.16	0.74
45:FF:148:GLY:O	45:FF:152:ILE:HG12	1.88	0.74
44:FG:247:ALA:HB2	44:FG:357:TYR:OH	1.87	0.74
45:FH:342:VAL:HG13	45:FH:345:ILE:HG22	1.70	0.74
44:FK:397:LEU:HD11	45:FL:344:TRP:HA	1.68	0.74
45:FL:237:THR:CG2	45:FL:240:LEU:HB3	2.17	0.74
44:GC:292:THR:HG21	44:GC:331:SER:HB3	1.70	0.74
44:GE:22:GLU:HG3	44:GE:83:TYR:CE2	2.22	0.74
44:GI:191:THR:O	44:GI:195:LEU:HG	1.87	0.74
44:GK:270:SER:HB3	44:GK:378:ILE:HD13	1.70	0.74
44:GK:272:TYR:CD1	44:GK:376:CYS:HB2	2.21	0.74
44:GM:187:SER:O	44:GM:190:SER:OG	2.04	0.74
45:GN:386:THR:OG1	45:GN:389:PHE:N	2.20	0.74
44:HG:203:MET:HE2	44:HG:205:ASP:HB3	1.68	0.74
44:HI:200:VAL:HG13	44:HI:268:MET:CE	2.17	0.74
45:HJ:302:ALA:HB3	45:HJ:377:MET:HE1	1.68	0.74
44:IE:219:ILE:HG22	44:IE:222:PRO:HD3	1.69	0.74
44:II:88:HIS:CE1	44:II:90:GLU:HG2	2.22	0.74
44:II:141:VAL:CG2	44:II:187:SER:HA	2.18	0.74
45:IJ:294:PHE:HD2	45:IJ:333:VAL:HG11	1.53	0.74
44:IK:2:ARG:HD3	44:IK:242:LEU:HD11	1.67	0.74
44:IK:270:SER:HB3	44:IK:378:ILE:HD13	1.69	0.74
45:IN:232:ALA:O	45:IN:236:VAL:HG23	1.86	0.74
45:JH:103:LYS:HG3	45:JH:401:GLU:OE1	1.88	0.74
45:JH:139:LEU:HD13	45:JH:168:SER:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:372:THR:HA	45:JJ:422:TYR:CE2	2.20	0.74
44:JK:22:GLU:HG3	44:JK:83:TYR:OH	1.87	0.74
44:JK:67:PHE:O	44:JK:68:LEU:HD23	1.86	0.74
44:KA:68:LEU:HD21	44:KA:118:CYS:SG	2.28	0.74
44:KA:404:PHE:HD2	45:KB:259:PRO:HA	1.51	0.74
45:KB:203:ASP:OD2	45:KB:302:ALA:N	2.17	0.74
45:KB:256:ASN:O	45:KB:257:LEU:HD23	1.87	0.74
44:KE:256:GLN:O	44:KE:260:VAL:HG12	1.87	0.74
44:KG:326:LYS:HZ3	45:KJ:219:THR:HA	1.52	0.74
44:KK:221:ARG:NH2	45:KL:322:SER:OG	2.21	0.74
44:KM:22:GLU:O	44:KM:26:LEU:N	2.14	0.74
44:LI:274:PRO:HB2	44:LI:276:ILE:CD1	2.17	0.74
45:LN:210:ILE:O	45:LN:214:THR:OG1	2.05	0.74
45:MB:301:CYS:HB3	45:MB:377:MET:HE3	1.68	0.74
44:ME:308:ARG:HB2	44:ME:308:ARG:NH1	2.03	0.74
44:MG:137:VAL:HG22	44:MG:167:LEU:O	1.88	0.74
44:MG:259:LEU:HD21	44:MG:316:SER:CB	2.17	0.74
44:MK:67:PHE:HB2	44:MK:92:LEU:HD22	1.69	0.74
44:MK:189:LEU:HD22	44:MK:418:PHE:HE2	1.53	0.74
44:NA:295:ALA:HB1	44:NA:377:MET:HG2	1.70	0.74
45:NB:31:ASP:OD1	45:NB:34:GLY:N	2.19	0.74
44:NE:137:VAL:HG12	44:NE:167:LEU:O	1.88	0.74
44:NE:313:MET:SD	44:NE:380:ASN:ND2	2.61	0.74
44:NG:313:MET:SD	44:NG:344:VAL:HG11	2.28	0.74
44:OA:406:HIS:NE2	45:OB:260:PHE:HA	2.03	0.74
44:OE:408:TYR:HB3	44:OE:413:MET:CG	2.13	0.74
44:OK:76:ASP:OD2	45:OL:46:ARG:NH2	2.21	0.74
44:OK:237:SER:HA	44:OK:320:ARG:NH1	2.03	0.74
44:OM:87:PHE:HB3	44:OM:92:LEU:HD11	1.69	0.74
44:PA:67:PHE:O	44:PA:93:ILE:N	2.21	0.74
44:PA:181:VAL:HG21	45:PB:256:ASN:HA	1.69	0.74
45:PB:25:SER:CB	45:PB:30:ILE:HB	2.17	0.74
45:PB:314:SER:O	45:PB:368:VAL:N	2.19	0.74
44:PC:384:ILE:O	44:PC:387:VAL:HG22	1.88	0.74
44:PI:251:ASP:OD1	44:PI:254:GLU:HG3	1.88	0.74
45:QB:42:LEU:HA	45:QB:45:GLU:HG3	1.69	0.74
45:QD:31:ASP:HB3	45:QD:32:PRO:CD	2.17	0.74
44:QE:200:VAL:HG13	44:QE:268:MET:SD	2.28	0.74
44:QE:328:VAL:O	44:QE:332:ILE:N	2.20	0.74
45:QF:296:ALA:HA	45:QF:305:PRO:HG3	1.70	0.74
44:QG:195:LEU:O	44:QG:266:HIS:NE2	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:49:VAL:HG11	45:QH:241:ARG:HG2	1.70	0.74
44:QI:3:GLU:HG3	44:QI:51:THR:HA	1.69	0.74
44:QI:195:LEU:HD21	44:QI:264:ARG:HH21	1.53	0.74
45:QL:100:ASN:ND2	45:QL:401:GLU:OE1	2.20	0.74
44:QM:316:SER:O	44:QM:378:ILE:N	2.20	0.74
45:RB:55:THR:HG23	45:SB:283:ALA:HA	1.69	0.74
45:RB:385:PHE:HA	45:RB:388:MET:HE2	1.70	0.74
45:RD:371:SER:O	45:RD:374:ILE:HG23	1.86	0.74
45:RH:314:SER:CB	45:RH:350:LYS:HB3	2.17	0.74
44:RI:88:HIS:HB3	44:RI:91:GLN:CG	2.17	0.74
44:RI:346:TRP:CZ3	44:RI:347:CYS:HB2	2.22	0.74
45:RL:262:ARG:NH1	45:RL:421:GLU:OE1	2.20	0.74
44:RM:433:GLU:O	44:RM:437:ILE:HG23	1.88	0.74
44:SC:203:MET:HG3	44:SC:384:ILE:CD1	2.16	0.74
45:SF:65:LEU:HD21	45:SF:76:VAL:HG11	1.68	0.74
45:SF:206:ALA:O	45:SF:210:ILE:N	2.20	0.74
44:SG:372:MET:HG3	44:SG:373:ARG:NH1	2.02	0.74
45:SN:23:VAL:O	45:SN:27:GLU:N	2.20	0.74
44:TA:272:TYR:OH	44:TA:320:ARG:NH2	2.19	0.74
44:TA:304:LYS:HE2	44:TA:387:VAL:HG12	1.70	0.74
44:TA:371:VAL:HG22	44:TA:373:ARG:H	1.52	0.74
44:TE:149:LEU:O	44:TE:153:LEU:N	2.20	0.74
44:TG:279:GLU:C	44:TG:280:LYS:HD3	2.08	0.74
44:TG:284:GLU:HG3	44:TG:286:LEU:HD22	1.69	0.74
45:TH:97:ALA:HB2	45:TH:143:THR:HB	1.69	0.74
45:TH:324:LYS:HD2	44:TI:210:TYR:CD1	2.22	0.74
44:TK:12:GLY:O	44:TK:16:VAL:N	2.20	0.74
45:TL:14:ASN:OD1	45:TL:15:GLN:N	2.21	0.74
45:TL:316:LEU:CA	45:TL:352:SER:HB2	2.17	0.74
44:TM:202:VAL:HG22	44:TM:268:MET:CB	2.13	0.74
44:TM:439:THR:HB	45:TN:391:ARG:HD3	1.69	0.74
45:TN:42:LEU:HA	45:TN:45:GLU:CG	2.18	0.74
44:UA:141:VAL:HG22	44:UA:187:SER:HA	1.69	0.74
45:UD:113:ILE:HD13	45:UD:150:LEU:HD13	1.69	0.74
45:UD:267:MET:HE1	45:UD:301:CYS:H	1.52	0.74
44:UE:152:LEU:O	44:UE:156:ARG:N	2.15	0.74
45:UF:399:THR:HA	45:UF:403:MET:O	1.88	0.74
44:UG:131:GLY:O	44:UG:133:GLN:NE2	2.21	0.74
44:UI:88:HIS:HB3	44:UI:91:GLN:CG	2.17	0.74
44:UM:420:GLU:HA	44:UM:423:GLU:HB2	1.67	0.74
45:UN:211:CYS:HA	45:UN:215:LEU:HD12	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:240:ALA:HA	44:VA:243:ARG:NH1	2.03	0.74
45:VB:222:TYR:CD1	45:VB:225:LEU:HD21	2.22	0.74
44:VE:141:VAL:HG23	44:VE:190:SER:OG	1.87	0.74
44:VI:60:LYS:HD3	44:WI:283:HIS:NE2	2.03	0.74
44:VI:407:TRP:CZ3	45:VJ:255:VAL:HA	2.22	0.74
45:VL:382:ALA:O	45:VL:386:THR:N	2.18	0.74
44:WC:141:VAL:HG11	44:WC:172:TYR:HD1	1.51	0.74
44:WC:301:MET:CE	44:WC:307:PRO:HB3	2.17	0.74
45:WD:6:HIS:NE2	45:WD:8:GLN:OE1	2.20	0.74
45:WD:314:SER:HB2	45:WD:350:LYS:HB3	1.70	0.74
45:WD:406:MET:O	45:WD:409:THR:OG1	2.06	0.74
44:WM:268:MET:HG3	44:WM:378:ILE:HG23	1.68	0.74
45:WN:131:GLN:HE21	45:WN:250:LEU:HB2	1.52	0.74
45:WN:137:HIS:O	45:WN:168:SER:HA	1.87	0.74
2:0A:96:ALA:HB2	35:7R:62:PRO:HG2	1.69	0.74
2:0A:104:ARG:HH12	35:7R:61:THR:HG22	1.53	0.74
7:0F:209:LYS:HG3	44:FC:279:GLU:HB3	1.69	0.74
26:1R:80:CYS:SG	44:MC:32:PRO:HD2	2.27	0.74
16:2X:42:LYS:HG3	44:LI:58:ALA:HA	1.69	0.74
15:3V:104:PHE:CE1	44:LA:417:GLU:HA	2.22	0.74
36:5S:152:THR:O	36:5S:153:LYS:HG2	1.87	0.74
44:AA:88:HIS:CE1	44:AA:90:GLU:HG2	2.22	0.74
45:AD:139:LEU:CD2	45:AD:168:SER:HB3	2.18	0.74
44:AK:1:MET:HE2	45:AN:94:GLN:HB3	1.67	0.74
44:AK:14:ILE:HD12	44:AK:67:PHE:HB3	1.69	0.74
44:AM:424:ASP:O	44:AM:427:ALA:N	2.21	0.74
44:BC:191:THR:HA	44:BC:194:LEU:HG	1.69	0.74
44:BM:185:TYR:HE2	44:BM:404:PHE:HB2	1.52	0.74
45:BN:186:THR:O	45:BN:189:VAL:HG12	1.87	0.74
45:CB:180:VAL:HG22	45:CB:183:TYR:HB2	1.68	0.74
45:CD:11:GLN:NE2	48:CD:501:GDP:O2A	2.21	0.74
44:CK:246:GLY:HA2	44:CK:357:TYR:CE1	2.22	0.74
44:CK:298:PRO:HA	44:CK:301:MET:CE	2.18	0.74
45:CL:259:PRO:HA	44:CM:404:PHE:CE1	2.22	0.74
45:DB:337:ASN:HB3	45:DB:340:TYR:CD2	2.23	0.74
44:DG:212:ILE:CD1	44:DG:300:ASN:HA	2.17	0.74
45:DH:296:ALA:HA	45:DH:299:MET:CE	2.17	0.74
44:DI:132:LEU:HD22	44:DI:164:LYS:NZ	2.02	0.74
45:DN:318:ARG:HD3	45:DN:358:PRO:HG3	1.67	0.74
44:EC:67:PHE:O	44:EC:93:ILE:HG12	1.86	0.74
45:ED:210:ILE:O	45:ED:214:THR:OG1	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:209:ILE:HG22	44:EG:227:LEU:HD22	1.70	0.74
45:EJ:259:PRO:HA	44:EK:404:PHE:CE2	2.22	0.74
44:EM:76:ASP:OD1	44:EM:79:ARG:NH2	2.21	0.74
44:EM:203:MET:HB2	44:EM:303:ALA:HB2	1.70	0.74
44:FG:20:CYS:HA	44:FG:232:ALA:HB1	1.69	0.74
45:FH:330:MET:SD	45:FH:349:ILE:HG21	2.28	0.74
45:FJ:231:ALA:HB1	45:FJ:270:PHE:CE1	2.23	0.74
45:FL:105:HIS:CG	45:FL:150:LEU:HD12	2.23	0.74
45:FN:200:MET:HG2	45:FN:266:PHE:HB2	1.70	0.74
45:GD:276:ARG:NH1	45:GD:279:GLN:OE1	2.21	0.74
45:GF:2:ARG:HH12	45:GF:46:ARG:HH12	1.36	0.74
45:GN:100:ASN:ND2	45:GN:401:GLU:OE1	2.20	0.74
44:HC:69:ASP:OD1	44:HC:71:GLU:N	2.17	0.74
44:HE:238:LEU:HD21	44:HE:255:PHE:CE2	2.22	0.74
45:HJ:249:ASP:OD1	45:HJ:252:LYS:N	2.19	0.74
44:HK:205:ASP:OD2	44:HK:304:LYS:N	2.18	0.74
44:IC:242:LEU:HD21	44:IC:251:ASP:HA	1.69	0.74
44:IE:384:ILE:O	44:IE:387:VAL:HG22	1.87	0.74
45:IH:127:CYS:SG	45:IH:128:ASP:N	2.61	0.74
45:IL:3:GLU:OE2	45:IL:127:CYS:HB2	1.88	0.74
44:JG:256:GLN:HB2	45:JJ:397:TRP:CH2	2.22	0.74
44:JI:245:ASP:OD1	44:JI:246:GLY:N	2.21	0.74
45:JJ:254:ALA:O	45:JJ:258:ILE:HG12	1.88	0.74
45:JL:207:LEU:HB3	45:JL:225:LEU:CD2	2.16	0.74
45:KB:415:MET:O	45:KB:419:VAL:HG23	1.87	0.74
44:LE:407:TRP:CZ3	45:LF:255:VAL:HA	2.23	0.74
45:LF:239:CYS:SG	45:LF:248:SER:N	2.61	0.74
44:LI:63:PRO:HG3	44:LI:87:PHE:HA	1.68	0.74
45:LN:7:ILE:HD12	45:LN:151:LEU:HD21	1.70	0.74
44:MI:340:THR:HG23	44:MI:341:ILE:HG13	1.70	0.74
45:ML:193:VAL:HA	45:ML:264:HIS:CE1	2.22	0.74
44:NA:14:ILE:HG21	44:NA:74:VAL:HB	1.70	0.74
45:ND:407:GLU:O	45:ND:410:GLU:HG3	1.88	0.74
45:NH:140:GLY:O	45:NH:184:ASN:ND2	2.20	0.74
45:NJ:267:MET:HG3	45:NJ:301:CYS:SG	2.27	0.74
44:NK:71:GLU:HG3	44:NK:98:ASP:HB2	1.70	0.74
45:NL:285:THR:N	45:NL:288:GLU:OE2	2.20	0.74
44:NM:143:GLY:HA3	46:NM:501:GTP:O2B	1.88	0.74
44:OC:112:LYS:O	44:OC:115:VAL:HG12	1.88	0.74
45:OD:34:GLY:HA3	45:OD:58:ARG:HG3	1.69	0.74
45:OD:324:LYS:O	45:OD:328:GLU:HG2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:323:VAL:HG22	44:OE:373:ARG:HH11	1.53	0.74
45:OH:207:LEU:HA	45:OH:300:MET:HE1	1.69	0.74
44:OI:63:PRO:HG2	44:OI:86:LEU:HG	1.69	0.74
45:OJ:274:THR:OG1	45:OJ:278:SER:HB3	1.88	0.74
44:PA:49:PHE:O	44:PA:53:PHE:N	2.21	0.74
44:PA:275:ILE:HA	44:PA:368:LEU:HD11	1.70	0.74
45:PB:139:LEU:HG	45:PB:188:SER:HB2	1.70	0.74
44:PC:268:MET:HB3	44:PC:380:ASN:HB3	1.70	0.74
44:PE:215:ARG:NH1	44:PE:299:ALA:O	2.20	0.74
45:PF:156:ARG:NH1	45:PF:160:PRO:HA	2.02	0.74
44:PG:136:LEU:CD2	44:PG:167:LEU:HD11	2.14	0.74
44:PI:310:GLY:O	44:PI:311:LYS:HD3	1.87	0.74
44:PM:310:GLY:N	44:PM:383:ALA:HB2	2.03	0.74
45:QB:260:PHE:HE1	44:QC:403:ALA:HA	1.53	0.74
45:QD:113:ILE:HG12	45:QD:117:LEU:HD23	1.70	0.74
44:QE:205:ASP:OD1	44:QE:303:ALA:HA	1.88	0.74
45:RB:345:ILE:HD11	44:RC:181:VAL:HG21	1.70	0.74
45:RD:19:LYS:O	45:RD:23:VAL:N	2.21	0.74
44:RE:316:SER:O	44:RE:377:MET:HA	1.88	0.74
44:RK:268:MET:HB3	44:RK:379:SER:O	1.88	0.74
44:RM:271:SER:HB2	44:RM:377:MET:CG	2.18	0.74
45:RN:187:LEU:HD23	45:RN:411:ALA:CB	2.18	0.74
44:SA:325:PRO:HG2	45:SB:222:TYR:CE2	2.22	0.74
44:SA:372:MET:O	44:SA:373:ARG:HD2	1.87	0.74
45:SB:182:PRO:HB2	45:SB:388:MET:CE	2.17	0.74
45:SB:416:ASN:O	45:SB:420:SER:N	2.18	0.74
45:SJ:113:ILE:HD13	45:SJ:150:LEU:HD22	1.70	0.74
44:SK:384:ILE:O	44:SK:387:VAL:HG22	1.88	0.74
44:TA:260:VAL:HG13	44:TA:266:HIS:HA	1.70	0.74
44:TE:387:VAL:HA	44:TE:390:ARG:CG	2.17	0.74
44:TI:136:LEU:HD23	44:TI:167:LEU:HD13	1.70	0.74
44:TI:174:SER:HB2	44:TI:177:VAL:O	1.88	0.74
45:TJ:379:LYS:O	45:TJ:383:GLU:N	2.21	0.74
44:TK:13:GLY:HA2	44:TK:16:VAL:HG12	1.69	0.74
44:UC:101:ASN:HA	44:UC:144:GLY:HA3	1.68	0.74
45:UD:201:VAL:HG23	45:UD:301:CYS:SG	2.27	0.74
45:UD:398:TYR:HB3	45:UD:403:MET:HE3	1.69	0.74
45:UL:334:GLN:NE2	45:UL:348:ASN:OD1	2.21	0.74
45:UN:119:VAL:O	45:UN:123:GLU:N	2.15	0.74
45:UN:274:THR:HB	45:UN:282:ARG:HH11	1.51	0.74
44:VA:119:LEU:HD21	44:VA:156:ARG:HD3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:167:LEU:CD1	44:VA:252:ILE:HD11	2.17	0.74
44:VA:316:SER:OG	44:VA:378:ILE:HB	1.88	0.74
45:VB:135:ILE:O	45:VB:167:PHE:N	2.15	0.74
45:VB:293:MET:CE	45:VB:367:PHE:HB2	2.18	0.74
44:VC:118:CYS:O	44:VC:122:ILE:HG12	1.88	0.74
44:VG:205:ASP:OD1	44:VG:303:ALA:HA	1.88	0.74
44:VI:139:ASN:OD1	44:VI:170:THR:HG22	1.87	0.74
45:VJ:213:ARG:HA	45:VJ:213:ARG:CZ	2.17	0.74
44:VM:259:LEU:HD13	44:VM:268:MET:SD	2.27	0.74
44:VM:431:ASP:O	44:VM:435:VAL:N	2.19	0.74
45:WJ:310:TYR:CD1	45:WJ:371:SER:HB2	2.22	0.74
8:0G:100:GLU:OE1	45:JN:357:PRO:HG3	1.88	0.74
26:1R:504:GLU:OE2	44:EC:39:ASP:HA	1.88	0.74
28:4C:67:LYS:HD3	44:LM:82:THR:H	1.51	0.74
37:5D:44:SER:O	45:KN:393:ALA:HB3	1.87	0.74
39:5K:45:LYS:HG2	44:JK:430:LYS:CE	2.18	0.74
35:5R:132:PRO:O	35:5R:141:GLN:NE2	2.21	0.74
36:5S:78:VAL:HG23	36:5S:79:ASN:H	1.53	0.74
35:6R:570:VAL:HG12	35:6R:585:ILE:HD13	1.69	0.74
44:AE:210:TYR:CE1	44:AE:227:LEU:HD11	2.23	0.74
44:AG:224:TYR:HE2	45:AH:246:LEU:HD11	1.53	0.74
44:AI:284:GLU:HG3	44:AI:286:LEU:HD22	1.70	0.74
44:AK:188:ILE:HG23	44:AK:425:LEU:HD12	1.70	0.74
45:AN:372:THR:HA	45:AN:422:TYR:HE2	1.51	0.74
44:BC:101:ASN:HA	44:BC:144:GLY:HA3	1.69	0.74
44:BK:439:THR:HG21	45:BN:390:ARG:HH12	1.53	0.74
44:CA:276:ILE:HD11	44:CA:280:LYS:HG3	1.69	0.74
44:CE:311:LYS:HD2	44:CE:342:GLN:HG3	1.69	0.74
44:CG:323:VAL:CG1	44:CG:355:ILE:HD12	2.17	0.74
44:CK:324:VAL:HG13	44:CK:325:PRO:HD2	1.67	0.74
45:CL:77:ARG:HB3	45:CL:83:GLN:NE2	2.03	0.74
44:CM:320:ARG:CG	44:CM:374:ALA:HB3	2.18	0.74
45:DD:362:LYS:HE2	45:DD:362:LYS:HA	1.69	0.74
45:DD:390:ARG:O	45:DD:392:LYS:NZ	2.21	0.74
44:DM:171:ILE:HG12	44:DM:204:LEU:HB3	1.69	0.74
45:DN:2:ARG:H	45:DN:129:CYS:HB3	1.51	0.74
45:EB:8:GLN:NE2	45:EB:14:ASN:OD1	2.21	0.74
45:EB:145:SER:HB2	45:EB:188:SER:OG	1.88	0.74
44:EG:141:VAL:HG11	44:EG:172:TYR:CE1	2.23	0.74
44:EG:141:VAL:HG13	44:EG:190:SER:OG	1.88	0.74
44:EI:80:THR:O	44:EI:84:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:208:ALA:O	44:FI:212:ILE:N	2.18	0.74
44:FI:323:VAL:HA	44:FI:373:ARG:HH12	1.51	0.74
44:FK:215:ARG:NH2	44:FK:300:ASN:OD1	2.21	0.74
45:FL:284:LEU:CD1	45:FL:361:LEU:HD11	2.18	0.74
45:GB:372:THR:HA	45:GB:422:TYR:HE2	1.52	0.74
45:GH:210:ILE:O	45:GH:214:THR:HG22	1.86	0.74
44:GK:173:PRO:HG3	44:GK:183:GLU:OE1	1.88	0.74
45:HF:310:TYR:CD1	45:HF:371:SER:HB3	2.23	0.74
44:HG:215:ARG:NE	44:HG:216:ASN:OD1	2.15	0.74
45:IF:86:ARG:HB3	45:IF:89:ASN:OD1	1.88	0.74
44:IG:60:LYS:NZ	44:IG:86:LEU:HA	2.02	0.74
44:II:174:SER:HB3	44:II:207:GLU:HB2	1.69	0.74
45:IL:11:GLN:HB3	48:IL:501:GDP:O1A	1.88	0.74
45:IN:208:TYR:CE1	45:IN:225:LEU:HD11	2.23	0.74
45:JB:73:MET:CE	45:JB:92:PHE:HB3	2.18	0.74
45:JB:391:ARG:HD2	45:JB:393:ALA:HB2	1.69	0.74
45:JF:165:GLU:OE2	45:JF:250:LEU:HD22	1.88	0.74
45:JJ:174:LYS:CD	45:JJ:175:VAL:HG13	2.18	0.74
44:JK:256:GLN:HB2	45:JN:397:TRP:CZ3	2.22	0.74
44:JM:343:PHE:HB3	44:JM:347:CYS:SG	2.28	0.74
44:KA:259:LEU:HB3	44:KA:268:MET:CE	2.17	0.74
44:KG:200:VAL:HG13	44:KG:268:MET:SD	2.27	0.74
44:KK:406:HIS:CD2	45:KL:261:PRO:HD3	2.22	0.74
44:KM:265:ILE:HD12	44:KM:432:TYR:CE1	2.23	0.74
45:KN:65:LEU:HD12	45:KN:90:PHE:CE2	2.23	0.74
44:LA:89:PRO:HG2	44:MA:280:LYS:CG	2.16	0.74
44:LC:137:VAL:HG12	44:LC:167:LEU:O	1.86	0.74
44:LE:434:GLU:O	44:LE:437:ILE:HG12	1.87	0.74
45:LF:221:THR:HG23	45:LF:223:GLY:N	2.03	0.74
44:LG:137:VAL:HG22	44:LG:167:LEU:O	1.87	0.74
44:LI:172:TYR:HB2	44:LI:203:MET:HE3	1.70	0.74
45:LL:200:MET:HG2	45:LL:266:PHE:HB2	1.69	0.74
44:MA:66:VAL:HG23	44:MA:91:GLN:HG2	1.69	0.74
45:MB:214:THR:HG21	45:MB:273:LEU:HB2	1.70	0.74
44:MC:205:ASP:OD1	44:MC:303:ALA:HA	1.88	0.74
45:MH:207:LEU:HD13	45:MH:225:LEU:HB3	1.70	0.74
45:MJ:130:LEU:HD11	45:MJ:133:PHE:HE1	1.52	0.74
44:MK:171:ILE:HG12	44:MK:204:LEU:HB2	1.70	0.74
44:MM:174:SER:HB3	44:MM:207:GLU:HB2	1.68	0.74
45:NB:318:ARG:HB3	45:NB:358:PRO:HD3	1.69	0.74
45:NF:99:ASN:ND2	45:NF:178:THR:HG23	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:383:GLU:O	45:NJ:386:THR:HG22	1.88	0.74
44:NK:267:PHE:O	44:NK:380:ASN:ND2	2.21	0.74
44:NM:174:SER:OG	44:NM:206:ASN:OD1	2.05	0.74
44:OA:139:ASN:HD22	44:OA:150:GLY:HA3	1.53	0.74
45:OD:274:THR:HG21	45:OD:279:GLN:HA	1.68	0.74
45:OJ:330:MET:HB3	45:OJ:349:ILE:HG21	1.70	0.74
44:OM:274:PRO:HB2	44:OM:276:ILE:HG13	1.69	0.74
45:ON:144:GLY:N	48:ON:501:GDP:O2B	2.20	0.74
45:PB:1:MET:O	45:PB:2:ARG:HG2	1.88	0.74
45:PB:14:ASN:O	45:PB:18:ALA:N	2.21	0.74
45:PB:61:PRO:CD	45:PB:84:LEU:HB3	2.18	0.74
45:PB:268:ILE:HG22	45:PB:368:VAL:HA	1.70	0.74
44:PE:209:ILE:HG22	44:PE:227:LEU:HD22	1.70	0.74
44:PI:268:MET:HB2	44:PI:380:ASN:HA	1.68	0.74
44:PK:7:ILE:N	44:PK:136:LEU:O	2.20	0.74
44:QA:268:MET:HE2	44:QA:380:ASN:HB2	1.70	0.74
45:QB:156:ARG:CD	45:QB:164:MET:HE3	2.18	0.74
44:QE:115:VAL:HG22	44:QE:119:LEU:CD2	2.18	0.74
44:QE:276:ILE:CD1	44:QE:280:LYS:HD2	2.18	0.74
45:QF:4:ILE:CG2	45:QF:131:GLN:HG2	2.18	0.74
45:QF:104:GLY:HA2	45:QF:108:GLU:OE2	1.88	0.74
44:QG:363:VAL:HG13	44:QG:364:PRO:HD2	1.69	0.74
45:QH:217:LEU:HD11	45:QH:220:PRO:HB3	1.70	0.74
45:QH:309:ARG:NH2	45:QH:426:GLN:O	2.21	0.74
44:QI:390:ARG:HG3	44:QI:391:LEU:HD12	1.69	0.74
45:RB:70:PRO:HG3	45:RB:92:PHE:CD2	2.23	0.74
45:RB:206:ALA:HA	45:RB:209:ASP:HB2	1.69	0.74
44:RC:194:LEU:O	44:RC:198:THR:HG22	1.88	0.74
45:RD:414:ASN:O	45:RD:418:LEU:N	2.20	0.74
44:RG:252:ILE:HA	44:RG:255:PHE:CE2	2.23	0.74
44:RI:6:SER:O	44:RI:7:ILE:HD13	1.87	0.74
44:RI:88:HIS:CE1	44:RI:90:GLU:HG2	2.22	0.74
45:SH:121:ARG:NH2	45:SH:158:GLU:OE2	2.18	0.74
45:SH:217:LEU:HD11	45:SH:220:PRO:HB3	1.70	0.74
45:SH:318:ARG:HH11	45:SH:358:PRO:HG3	1.52	0.74
44:SI:340:THR:HG23	44:SI:341:ILE:HG12	1.70	0.74
44:SK:316:SER:CB	44:SK:352:LYS:HE3	2.18	0.74
45:SN:173:PRO:HG2	45:SN:380:ARG:HD3	1.69	0.74
45:SN:233:MET:HA	45:SN:236:VAL:HG23	1.67	0.74
44:TE:225:THR:HA	44:TE:228:ASN:HD22	1.53	0.74
44:TE:277:SER:O	44:TE:281:ALA:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:52:ASN:HB2	45:UB:60:VAL:HG13	1.69	0.74
44:UC:188:ILE:HG13	44:UC:395:PHE:CG	2.23	0.74
45:UD:412:GLU:O	45:UD:416:ASN:N	2.13	0.74
45:UF:32:PRO:HA	45:UF:84:LEU:HD11	1.68	0.74
45:UF:285:THR:HG23	45:UF:287:PRO:HD2	1.69	0.74
45:UJ:355:ASP:O	45:UJ:356:ILE:HD13	1.87	0.74
45:UJ:375:GLN:HB2	45:UJ:379:LYS:HZ3	1.53	0.74
44:VA:221:ARG:NH2	45:VB:321:MET:HG3	2.02	0.74
45:VD:263:LEU:HD21	45:VD:422:TYR:HD1	1.50	0.74
45:VF:121:ARG:NH2	45:VF:158:GLU:OE2	2.20	0.74
45:VH:214:THR:O	45:VH:216:LYS:HG3	1.88	0.74
44:VI:32:PRO:HB3	44:VI:83:TYR:CE1	2.23	0.74
44:VM:3:GLU:OE2	44:VM:130:THR:N	2.13	0.74
45:VN:36:TYR:HB2	45:VN:59:TYR:HE1	1.53	0.74
44:WC:188:ILE:HD11	44:WC:391:LEU:HG	1.69	0.74
44:WC:284:GLU:HG3	44:WC:286:LEU:CD2	2.18	0.74
45:WF:311:LEU:O	45:WF:345:ILE:HD13	1.88	0.74
45:WH:41:ASP:OD1	45:WH:42:LEU:HD12	1.88	0.74
44:WK:145:THR:N	46:WK:501:GTP:O2G	2.20	0.74
45:WN:318:ARG:HB2	45:WN:364:ALA:HB3	1.68	0.74
5:0D:38:ILE:HD11	44:DC:84:ARG:HB2	1.70	0.73
22:1L:533:ASP:HB2	44:BE:221:ARG:HH12	1.53	0.73
15:2V:69:SER:CB	45:MF:336:LYS:HB3	2.18	0.73
35:4R:268:GLU:HB2	45:DF:280:GLN:OE1	1.88	0.73
35:4R:436:GLU:HA	45:FF:280:GLN:HE22	1.51	0.73
37:5D:59:TYR:C	45:KN:385:PHE:HB2	2.07	0.73
38:5G:137:VAL:HG11	45:OL:215:LEU:HD22	1.69	0.73
35:6R:294:ASN:OD1	45:DN:219:THR:N	2.21	0.73
45:AB:251:ARG:O	45:AB:255:VAL:N	2.20	0.73
44:AC:226:ASN:ND2	44:AC:367:ASP:OD2	2.21	0.73
45:BF:286:VAL:CG1	45:BF:287:PRO:HD3	2.18	0.73
44:BG:217:LEU:O	44:BG:217:LEU:HD23	1.88	0.73
44:BG:420:GLU:O	44:BG:423:GLU:HG2	1.87	0.73
45:BH:51:TYR:O	45:BH:52:ASN:N	2.19	0.73
44:BI:276:ILE:HD11	44:BI:280:LYS:HG3	1.69	0.73
45:BL:7:ILE:HB	45:BL:135:ILE:HG22	1.70	0.73
44:BM:224:TYR:HD1	44:BM:227:LEU:HD12	1.51	0.73
45:CB:172:SER:OG	45:CB:175:VAL:HG22	1.87	0.73
44:CC:11:GLN:NE2	46:CC:501:GTP:O3A	2.20	0.73
45:CD:183:TYR:OH	45:CD:388:MET:HB3	1.87	0.73
44:CK:272:TYR:HD2	44:CK:275:ILE:HD11	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:214:THR:HB	45:CL:273:LEU:HB3	1.70	0.73
45:CL:246:LEU:HD11	44:CM:224:TYR:HE2	1.53	0.73
45:CN:42:LEU:HD23	45:CN:243:PRO:HD2	1.70	0.73
44:DI:137:VAL:HG22	44:DI:167:LEU:O	1.88	0.73
45:EB:252:LYS:HA	44:EC:100:ALA:HB1	1.70	0.73
44:EC:247:ALA:HB1	45:ED:222:TYR:CE2	2.23	0.73
44:EE:321:GLY:CA	44:EE:373:ARG:HH12	2.00	0.73
45:EF:206:ALA:O	45:EF:210:ILE:N	2.18	0.73
44:EG:272:TYR:HD2	44:EG:275:ILE:HD11	1.52	0.73
44:EK:35:GLN:OE1	44:EK:60:LYS:HB3	1.88	0.73
44:EM:261:PRO:HA	45:EN:394:PHE:CD1	2.23	0.73
45:EN:388:MET:CE	45:EN:393:ALA:HB3	2.17	0.73
44:FA:4:VAL:HG23	44:FA:134:GLY:O	1.88	0.73
45:FB:271:ALA:HB1	45:FB:272:PRO:HA	1.68	0.73
45:FF:211:CYS:SG	45:FF:215:LEU:HD12	2.28	0.73
45:FH:166:THR:CG2	45:FH:199:CYS:HA	2.17	0.73
44:FI:203:MET:HG3	44:FI:384:ILE:HD11	1.70	0.73
44:FK:71:GLU:OE2	44:FK:73:THR:OG1	2.04	0.73
45:FL:284:LEU:HD13	45:FL:361:LEU:HD21	1.70	0.73
44:FM:54:SER:O	44:FM:62:VAL:HB	1.87	0.73
44:FM:174:SER:HB2	44:FM:177:VAL:O	1.87	0.73
44:GA:5:ILE:HG12	44:GA:64:ARG:HB3	1.68	0.73
44:GA:276:ILE:HD11	44:GA:281:ALA:HA	1.69	0.73
44:GE:324:VAL:HG21	44:GE:326:LYS:HE3	1.68	0.73
45:GF:51:TYR:HE1	45:GF:61:PRO:HG3	1.52	0.73
44:GI:407:TRP:HZ3	45:GJ:255:VAL:HA	1.53	0.73
44:GK:318:MET:C	44:GK:375:VAL:HG23	2.08	0.73
44:HA:22:GLU:HG3	44:HA:83:TYR:HE2	1.51	0.73
44:HA:22:GLU:HG3	44:HA:83:TYR:CE2	2.21	0.73
44:HA:258:ASN:HA	45:HD:179:VAL:HG21	1.68	0.73
45:HB:370:ASN:OD1	45:HB:422:TYR:OH	2.05	0.73
44:HC:88:HIS:CD2	44:IC:283:HIS:HB3	2.23	0.73
44:HI:140:SER:HB2	46:HI:501:GTP:PA	2.28	0.73
45:IB:3:GLU:HB2	45:IB:49:VAL:O	1.88	0.73
45:IB:137:HIS:O	45:IB:168:SER:HA	1.88	0.73
45:IH:139:LEU:HG	45:IH:188:SER:OG	1.88	0.73
45:IL:299:MET:CE	45:IL:305:PRO:HG3	2.18	0.73
44:JG:17:GLY:HA2	44:JG:20:CYS:SG	2.27	0.73
44:JI:5:ILE:HD12	44:JI:135:PHE:HE1	1.53	0.73
44:JM:406:HIS:HA	44:JM:409:VAL:HG12	1.69	0.73
44:KA:93:ILE:HD12	44:KA:117:LEU:CD2	2.09	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:268:MET:CE	44:KA:380:ASN:HB2	2.18	0.73
45:KF:142:GLY:N	48:KF:502:GDP:O2B	2.21	0.73
44:KG:326:LYS:HZ3	45:KJ:220:PRO:HD2	1.51	0.73
44:KK:60:LYS:HZ3	44:KK:62:VAL:HG22	1.52	0.73
45:KL:117:LEU:HD11	45:KL:154:LYS:CE	2.18	0.73
44:KM:102:ASN:HB3	44:KM:105:ARG:HB2	1.70	0.73
44:KM:244:PHE:HB2	44:KM:356:ASN:HD21	1.52	0.73
45:LB:131:GLN:HA	45:LB:162:ARG:NH1	2.02	0.73
45:LB:139:LEU:N	45:LB:169:VAL:O	2.16	0.73
45:LB:200:MET:HG3	45:LB:266:PHE:HB2	1.70	0.73
44:LC:69:ASP:OD1	44:LC:70:LEU:N	2.22	0.73
44:LE:247:ALA:HB3	44:LE:355:ILE:HG21	1.68	0.73
45:LF:97:ALA:HB2	45:LF:143:THR:HB	1.70	0.73
45:LF:108:GLU:O	45:LF:111:GLU:HG2	1.88	0.73
45:LH:63:ALA:O	45:LH:64:ILE:HD13	1.87	0.73
44:LM:53:PHE:HE2	44:LM:63:PRO:HG3	1.53	0.73
45:MB:309:ARG:N	45:MB:372:THR:HG1	1.86	0.73
45:MD:202:ILE:HD13	45:MD:300:MET:HE3	1.67	0.73
44:ME:69:ASP:OD1	44:ME:70:LEU:N	2.21	0.73
44:MG:204:LEU:HD13	44:MG:231:ILE:HD12	1.70	0.73
44:MM:181:VAL:HG12	45:MN:256:ASN:ND2	1.98	0.73
44:NA:13:GLY:HA2	44:NA:16:VAL:HG12	1.69	0.73
45:NB:232:ALA:O	45:NB:235:GLY:N	2.21	0.73
44:NI:84:ARG:HE	44:NI:85:GLN:HE22	1.34	0.73
44:NK:73:THR:HG22	45:NL:2:ARG:HH21	1.52	0.73
44:OA:399:TYR:OH	44:OA:415:GLU:OE2	2.06	0.73
45:OB:294:PHE:CE2	45:OB:333:VAL:HG11	2.23	0.73
44:OE:240:ALA:HB2	44:OE:320:ARG:HD3	1.70	0.73
45:OJ:24:ILE:HD11	45:OJ:234:SER:HB2	1.70	0.73
45:OJ:41:ASP:OD1	45:OJ:42:LEU:HD12	1.88	0.73
44:OK:223:THR:HA	45:OL:322:SER:OG	1.88	0.73
44:OM:384:ILE:O	44:OM:387:VAL:HG22	1.88	0.73
45:PD:185:ALA:O	45:PD:189:VAL:HG23	1.88	0.73
44:PG:294:SER:HA	44:PG:297:GLU:HG3	1.69	0.73
44:PK:320:ARG:HB2	44:PK:358:GLN:O	1.88	0.73
45:PL:97:ALA:O	45:PL:103:LYS:HD2	1.88	0.73
44:PM:67:PHE:HB2	44:PM:92:LEU:HG	1.69	0.73
45:QD:42:LEU:CD2	45:QD:356:ILE:HD11	2.13	0.73
44:QE:186:ASN:OD1	44:QE:187:SER:N	2.22	0.73
44:QI:10:GLY:O	44:QI:14:ILE:N	2.21	0.73
44:QK:271:SER:N	44:QK:377:MET:O	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:276:ILE:HD13	44:QK:281:ALA:HA	1.69	0.73
45:RB:334:GLN:HA	45:RB:341:PHE:HE2	1.53	0.73
44:RE:14:ILE:CD1	44:RE:69:ASP:HB2	2.18	0.73
44:RE:80:THR:O	44:RE:84:ARG:HD2	1.88	0.73
45:RF:296:ALA:HA	45:RF:299:MET:HE1	1.70	0.73
45:RH:398:TYR:HB3	45:RH:403:MET:CE	2.18	0.73
45:RJ:168:SER:N	45:RJ:200:MET:O	2.21	0.73
45:RN:372:THR:HA	45:RN:422:TYR:HE2	1.53	0.73
44:SA:5:ILE:HA	44:SA:64:ARG:O	1.88	0.73
45:SB:373:ALA:N	45:SB:377:MET:SD	2.61	0.73
45:SF:404:ASP:OD1	45:SF:407:GLU:HG3	1.88	0.73
44:SG:383:ALA:O	44:SG:386:GLU:HG2	1.87	0.73
45:SH:8:GLN:O	45:SH:66:MET:HG2	1.88	0.73
44:SM:161:TYR:HD2	44:SM:164:LYS:HG3	1.52	0.73
44:SM:269:LEU:HD23	44:SM:379:SER:O	1.88	0.73
44:TA:287:SER:O	44:TA:290:GLU:HG2	1.88	0.73
45:TB:256:ASN:OD1	44:TC:181:VAL:HG12	1.88	0.73
45:TD:110:ALA:O	45:TD:113:ILE:HG22	1.87	0.73
45:TF:99:ASN:OD1	45:TF:141:GLY:HA2	1.88	0.73
44:TG:195:LEU:HD12	44:TG:266:HIS:HE1	1.53	0.73
45:TH:313:ALA:HB3	45:TH:349:ILE:HG12	1.68	0.73
44:TI:66:VAL:HG11	44:TI:122:ILE:CD1	2.18	0.73
44:TK:106:GLY:O	44:TK:149:LEU:HD22	1.88	0.73
44:UA:260:VAL:HG13	44:UA:265:ILE:O	1.88	0.73
44:UA:268:MET:HB3	44:UA:380:ASN:OD1	1.88	0.73
44:UA:320:ARG:CB	44:UA:356:ASN:HB3	2.18	0.73
45:UB:60:VAL:HG21	45:UB:86:ARG:HG2	1.68	0.73
45:UB:303:ALA:HB2	45:UB:377:MET:SD	2.28	0.73
44:UC:312:TYR:O	44:UC:344:VAL:N	2.20	0.73
45:UD:324:LYS:HD2	44:UE:210:TYR:CG	2.22	0.73
45:UJ:1:MET:C	45:UJ:2:ARG:HD3	2.08	0.73
45:UJ:2:ARG:H	45:UJ:129:CYS:HB3	1.52	0.73
44:UM:242:LEU:CD1	44:UM:252:ILE:HG13	2.18	0.73
44:VI:396:ASP:OD1	44:VI:422:ARG:NE	2.20	0.73
44:WA:186:ASN:HA	44:WA:189:LEU:HB2	1.68	0.73
44:WG:268:MET:HB2	44:WG:379:SER:O	1.88	0.73
45:WH:330:MET:SD	45:WH:351:SER:OG	2.46	0.73
44:WI:98:ASP:OD1	44:WI:99:ALA:N	2.20	0.73
45:WN:405:GLU:HA	45:WN:408:PHE:HD2	1.51	0.73
8:0G:178:LYS:NZ	44:LM:326:LYS:O	2.20	0.73
20:1J:77:TYR:HA	44:IC:282:TYR:HE1	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:122:ARG:HA	44:IE:219:ILE:CD1	2.17	0.73
20:1J:201:LYS:HB2	44:HG:56:THR:O	1.86	0.73
26:2R:80:CYS:SG	44:MG:31:GLN:HG3	2.28	0.73
12:3S:149:HIS:CB	44:WK:164:LYS:HD3	2.18	0.73
12:3S:184:PRO:HB3	44:WK:127:ASP:O	1.88	0.73
16:4X:135:ARG:NH2	45:LH:276:ARG:HG3	2.03	0.73
41:6G:137:GLN:NE2	44:VG:297:GLU:HG2	2.04	0.73
11:6Q:185:LEU:HG	11:6Q:186:PRO:HD2	1.70	0.73
35:6R:301:PRO:HG3	45:CN:74:ASP:OD2	1.88	0.73
35:7R:283:ASP:O	35:7R:308:LYS:HG2	1.88	0.73
35:7R:330:SER:HB2	35:7R:331:PRO:HD2	1.70	0.73
35:7R:453:ILE:HD13	35:7R:475:ASN:HA	1.70	0.73
45:AD:173:PRO:HG3	45:AD:380:ARG:HD3	1.68	0.73
44:AE:200:VAL:HG13	44:AE:268:MET:CE	2.19	0.73
45:AL:286:VAL:HB	45:AL:325:GLU:CG	2.18	0.73
44:BA:271:SER:HB2	44:BA:377:MET:CG	2.18	0.73
44:BK:141:VAL:CG2	44:BK:187:SER:HA	2.18	0.73
44:BK:188:ILE:HD12	44:BK:425:LEU:CD1	2.19	0.73
44:CA:278:ALA:HB2	44:CA:369:ALA:HB2	1.68	0.73
45:CL:207:LEU:HD21	45:CL:300:MET:HE3	1.68	0.73
44:DA:385:ALA:HA	44:DA:388:PHE:CD2	2.23	0.73
45:DB:310:TYR:CD1	45:DB:371:SER:HB2	2.23	0.73
45:DB:322:SER:OG	44:DC:221:ARG:NH1	2.21	0.73
45:DD:101:TRP:CZ3	45:DD:187:LEU:HB3	2.22	0.73
44:DE:121:ARG:HA	44:DE:124:LYS:HZ1	1.51	0.73
45:DF:178:THR:HG22	45:DF:180:VAL:H	1.53	0.73
45:DL:150:LEU:HD23	45:DL:154:LYS:HG3	1.70	0.73
45:EB:182:PRO:O	45:EB:186:THR:OG1	2.02	0.73
45:EB:288:GLU:O	45:EB:291:GLN:HG3	1.88	0.73
45:EB:381:VAL:O	45:EB:384:GLN:HG2	1.88	0.73
44:EC:231:ILE:O	44:EC:235:ILE:HD12	1.87	0.73
44:EC:340:THR:HG23	44:EC:341:ILE:HG13	1.69	0.73
45:EF:21:TRP:CZ3	45:EF:61:PRO:HB3	2.22	0.73
44:EI:256:GLN:O	44:EI:260:VAL:HG12	1.87	0.73
45:EL:86:ARG:HB3	45:EL:89:ASN:ND2	2.02	0.73
44:FI:394:LYS:NZ	45:FJ:347:ASN:OD1	2.18	0.73
45:FJ:193:VAL:HA	45:FJ:264:HIS:CE1	2.22	0.73
45:GD:39:ASP:OD1	45:GD:40:SER:N	2.20	0.73
45:GD:302:ALA:HB3	45:GD:377:MET:CE	2.18	0.73
44:GI:223:THR:HG23	45:GJ:323:THR:HG23	1.70	0.73
44:GI:230:LEU:HD21	44:GI:368:LEU:HD21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:210:ILE:HD13	45:HH:300:MET:HE1	1.70	0.73
45:HN:73:MET:HA	45:HN:76:VAL:HG12	1.69	0.73
44:IA:242:LEU:HD11	44:IA:252:ILE:HG13	1.69	0.73
45:IB:86:ARG:HE	45:IB:87:PRO:HD2	1.53	0.73
44:IE:265:ILE:HD12	44:IE:432:TYR:CE1	2.23	0.73
45:IL:376:GLU:HG3	45:IL:380:ARG:HH21	1.53	0.73
44:JA:258:ASN:O	44:JA:259:LEU:HD23	1.88	0.73
45:JB:14:ASN:OD1	45:JB:65:LEU:HD12	1.87	0.73
45:JB:309:ARG:NH1	45:JB:342:VAL:HA	2.03	0.73
44:JC:113:GLU:O	44:JC:114:ILE:HD13	1.87	0.73
44:JE:32:PRO:HB3	44:JE:83:TYR:CE1	2.23	0.73
44:JK:113:GLU:O	44:JK:114:ILE:HD13	1.88	0.73
44:JM:7:ILE:HB	44:JM:137:VAL:HG12	1.68	0.73
44:JM:34:GLY:O	44:JM:60:LYS:HA	1.87	0.73
44:KC:90:GLU:HG3	44:KC:121:ARG:HH12	1.53	0.73
45:KD:60:VAL:HG13	45:KD:86:ARG:NH1	2.02	0.73
45:KJ:86:ARG:NH1	45:LJ:282:ARG:HG2	2.03	0.73
44:KM:331:SER:O	44:KM:334:THR:OG1	2.05	0.73
44:LA:102:ASN:HD21	44:LA:411:GLU:HG3	1.53	0.73
45:LH:173:PRO:HD2	45:LH:205:GLU:OE1	1.88	0.73
45:LJ:156:ARG:NH1	45:LJ:197:ASP:OD1	2.20	0.73
45:MH:1:MET:O	45:MH:2:ARG:HG2	1.87	0.73
45:MH:127:CYS:SG	45:MH:130:LEU:HB2	2.28	0.73
45:MH:213:ARG:HB3	45:MH:297:LYS:HE2	1.71	0.73
44:MI:323:VAL:HG21	44:MI:355:ILE:HD12	1.70	0.73
44:MM:286:LEU:O	44:MM:373:ARG:NH2	2.21	0.73
45:NB:190:HIS:O	45:NB:193:VAL:HG12	1.88	0.73
45:ND:252:LYS:O	45:ND:256:ASN:ND2	2.21	0.73
44:NE:174:SER:HB2	44:NE:177:VAL:O	1.89	0.73
44:NG:72:PRO:HG2	45:NH:1:MET:HE2	1.70	0.73
44:NG:177:VAL:N	44:NG:207:GLU:OE2	2.16	0.73
45:NJ:31:ASP:OD1	45:NJ:34:GLY:N	2.21	0.73
44:NM:9:VAL:HG12	44:NM:68:LEU:HB2	1.70	0.73
44:NM:298:PRO:HB3	44:NM:306:ASP:OD1	1.88	0.73
44:OA:323:VAL:HG22	44:OA:373:ARG:HG2	1.70	0.73
45:OB:49:VAL:HG11	45:OB:240:LEU:HD22	1.68	0.73
45:OH:203:ASP:OD1	45:OH:205:GLU:N	2.18	0.73
45:ON:113:ILE:HG12	45:ON:117:LEU:HD13	1.69	0.73
45:PB:60:VAL:HG23	45:PB:84:LEU:O	1.87	0.73
44:PE:60:LYS:NZ	44:QE:283:HIS:HA	2.03	0.73
45:PJ:28:HIS:O	45:PJ:43:GLN:HB3	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:51:THR:HG22	44:PK:52:PHE:HD1	1.52	0.73
44:PK:88:HIS:CE1	44:PK:90:GLU:HG2	2.23	0.73
44:QM:88:HIS:HA	44:RM:280:LYS:NZ	2.03	0.73
45:QN:309:ARG:NH2	45:QN:426:GLN:O	2.19	0.73
45:RD:314:SER:OG	45:RD:368:VAL:O	2.06	0.73
44:RE:76:ASP:OD1	44:RE:79:ARG:NH2	2.20	0.73
45:SB:207:LEU:O	45:SB:211:CYS:N	2.20	0.73
44:SC:56:THR:OG1	44:TC:284:GLU:N	2.21	0.73
45:SF:169:VAL:HG22	45:SF:202:ILE:HB	1.67	0.73
45:SF:217:LEU:HD11	45:SF:220:PRO:HG3	1.71	0.73
45:SH:222:TYR:OH	48:SH:501:GDP:N1	2.20	0.73
44:SM:69:ASP:OD1	44:SM:70:LEU:N	2.21	0.73
44:TA:12:GLY:HA3	44:TA:140:SER:HB3	1.71	0.73
44:TC:145:THR:HG22	46:TC:501:GTP:PG	2.28	0.73
45:TF:164:MET:HB3	45:TF:197:ASP:CB	2.19	0.73
44:TG:273:ALA:HB1	44:TG:274:PRO:HA	1.70	0.73
45:TH:252:LYS:HG2	45:TH:350:LYS:CE	2.18	0.73
45:TJ:318:ARG:CB	45:TJ:364:ALA:HB3	2.16	0.73
44:TK:288:VAL:HA	44:TK:291:ILE:HG12	1.70	0.73
45:TL:348:ASN:HA	44:TM:181:VAL:HG12	1.71	0.73
44:TM:174:SER:HB2	44:TM:177:VAL:O	1.88	0.73
45:TN:70:PRO:HG3	45:TN:92:PHE:CD1	2.23	0.73
45:TN:172:SER:OG	45:TN:205:GLU:OE2	2.05	0.73
44:UA:23:LEU:HD13	44:UA:233:GLN:HE22	1.53	0.73
44:UC:238:LEU:HD23	44:UC:318:MET:HE3	1.70	0.73
44:UE:60:LYS:NZ	44:UE:85:GLN:O	2.20	0.73
45:UF:309:ARG:HD2	45:UF:341:PHE:O	1.87	0.73
44:UG:207:GLU:HA	44:UG:210:TYR:CD2	2.23	0.73
44:UG:270:SER:C	44:UG:302:MET:HE2	2.08	0.73
44:UI:60:LYS:HD3	44:VG:283:HIS:CE1	2.23	0.73
45:UJ:32:PRO:HA	45:UJ:84:LEU:HD11	1.70	0.73
44:UK:213:CYS:O	44:UK:217:LEU:N	2.18	0.73
45:UN:200:MET:SD	45:UN:266:PHE:HB2	2.28	0.73
45:UN:372:THR:HA	45:UN:422:TYR:CE1	2.23	0.73
45:VB:334:GLN:HA	45:VB:341:PHE:CE2	2.23	0.73
44:VG:210:TYR:OH	45:VH:323:THR:OG1	2.04	0.73
45:VH:371:SER:O	45:VH:374:ILE:HG23	1.88	0.73
44:VK:242:LEU:HD11	44:VK:252:ILE:HG13	1.70	0.73
45:VL:317:PHE:N	45:VL:352:SER:O	2.20	0.73
44:VM:100:ALA:HA	45:VN:252:LYS:HB2	1.70	0.73
45:VN:211:CYS:HB3	45:VN:217:LEU:HD21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WA:100:ALA:O	45:WB:255:VAL:HG21	1.88	0.73
44:WC:31:GLN:NE2	44:WC:37:PRO:HG3	2.01	0.73
44:WC:175:PRO:HD3	44:WC:205:ASP:OD2	1.88	0.73
45:WD:213:ARG:HH21	45:WD:297:LYS:HD3	1.53	0.73
44:WE:231:ILE:O	44:WE:234:VAL:HG12	1.89	0.73
44:WM:66:VAL:HG22	44:WM:68:LEU:CD2	2.18	0.73
25:1P:164:THR:HG21	44:TI:372:MET:SD	2.26	0.73
2:2A:104:ARG:NH2	35:5R:59:MET:HA	2.03	0.73
13:3T:128:GLU:HA	44:AK:339:ARG:NH1	2.03	0.73
37:5D:37:ASP:O	44:KK:264:ARG:HB3	1.87	0.73
37:5D:39:ARG:HD3	44:KK:199:ASP:O	1.88	0.73
38:5F:140:ASN:HB2	45:OH:361:LEU:HD21	1.68	0.73
11:5Q:74:PRO:HD2	11:5Q:169:ASP:HB3	1.68	0.73
11:6Q:85:LYS:HD3	11:6Q:159:ASN:HD21	1.53	0.73
35:7R:340:VAL:HG13	35:7R:347:CYS:HB2	1.69	0.73
35:7R:456:TYR:HE2	44:EA:46:ASP:HB3	1.52	0.73
45:AB:42:LEU:HD23	45:AB:243:PRO:HD2	1.70	0.73
44:AC:60:LYS:NZ	44:AC:85:GLN:O	2.22	0.73
45:AD:243:PRO:HD2	45:AD:356:ILE:HD11	1.68	0.73
44:AG:319:TYR:HB2	44:AG:355:ILE:HD13	1.70	0.73
45:AJ:189:VAL:HG11	45:AJ:415:MET:SD	2.28	0.73
45:AL:113:ILE:HD13	45:AL:150:LEU:HD22	1.69	0.73
45:AN:100:ASN:ND2	45:AN:401:GLU:OE1	2.21	0.73
44:BG:250:VAL:HG12	44:BG:255:PHE:HE1	1.54	0.73
44:BI:141:VAL:CG1	44:BI:172:TYR:HA	2.18	0.73
44:BI:324:VAL:HG21	45:BL:219:THR:HG22	1.68	0.73
44:BM:224:TYR:CE2	45:BN:246:LEU:HD11	2.23	0.73
44:CA:136:LEU:HD22	44:CA:169:PHE:HE2	1.51	0.73
44:CC:328:VAL:HG21	44:CC:353:VAL:HG21	1.68	0.73
44:CG:141:VAL:HG22	44:CG:187:SER:HA	1.67	0.73
45:CL:208:TYR:CE1	45:CL:225:LEU:HD11	2.23	0.73
45:CL:322:SER:HB2	44:CM:221:ARG:HG3	1.69	0.73
45:CL:350:LYS:HZ3	44:CM:181:VAL:HG13	1.52	0.73
45:CN:150:LEU:HD21	45:CN:154:LYS:HE2	1.69	0.73
44:DE:417:GLU:HA	44:DE:420:GLU:HG2	1.69	0.73
45:DJ:376:GLU:OE2	45:DJ:380:ARG:NH2	2.21	0.73
44:DM:295:ALA:HB2	44:DM:375:VAL:HG11	1.70	0.73
45:EB:64:ILE:HG21	45:EB:119:VAL:CG1	2.18	0.73
44:EC:252:ILE:HA	44:EC:255:PHE:CE1	2.23	0.73
45:EJ:404:ASP:O	45:EJ:407:GLU:HG2	1.88	0.73
45:EL:110:ALA:O	45:EL:113:ILE:HG22	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:215:LEU:HD21	45:FB:273:LEU:HD22	1.70	0.73
44:FC:35:GLN:NE2	44:FC:60:LYS:HB3	2.04	0.73
44:FC:326:LYS:HG2	45:FF:212:PHE:CE2	2.22	0.73
44:FM:141:VAL:HG11	44:FM:172:TYR:HA	1.70	0.73
44:FM:219:ILE:HG21	44:FM:222:PRO:HB3	1.70	0.73
45:FN:177:ASP:N	45:FN:181:GLU:OE2	2.21	0.73
44:GA:5:ILE:HD13	44:GA:125:LEU:HD13	1.69	0.73
44:GA:398:MET:SD	44:GA:403:ALA:HB3	2.29	0.73
45:GB:420:SER:O	45:GB:424:GLN:N	2.21	0.73
44:GC:51:THR:OG1	44:GC:243:ARG:HB3	1.87	0.73
44:GC:203:MET:HG3	44:GC:384:ILE:CD1	2.18	0.73
45:GD:113:ILE:HA	45:GD:116:VAL:HG12	1.70	0.73
45:GF:7:ILE:HB	45:GF:135:ILE:CD1	2.18	0.73
44:GI:259:LEU:HD21	44:GI:316:SER:CB	2.18	0.73
45:GN:262:ARG:NH1	45:GN:421:GLU:OE1	2.21	0.73
44:HA:384:ILE:O	44:HA:387:VAL:HG22	1.87	0.73
44:HK:98:ASP:O	44:HK:105:ARG:NH1	2.21	0.73
44:HM:189:LEU:HD23	44:HM:421:ALA:HB2	1.70	0.73
45:HN:385:PHE:CD1	45:HN:386:THR:HG22	2.22	0.73
44:IC:15:GLN:HA	44:IC:18:ASN:OD1	1.87	0.73
45:IF:178:THR:HB	45:IF:181:GLU:HG3	1.69	0.73
46:IG:501:GTP:C8	45:IH:246:LEU:HD21	2.23	0.73
45:IH:361:LEU:HD23	45:IH:362:LYS:N	2.03	0.73
44:II:209:ILE:HG22	44:II:227:LEU:HD22	1.71	0.73
44:IK:119:LEU:HD21	44:IK:156:ARG:HG2	1.68	0.73
45:IL:313:ALA:O	45:IL:349:ILE:HD12	1.89	0.73
45:JF:279:GLN:HG3	45:JF:280:GLN:HG2	1.69	0.73
44:JG:387:VAL:O	44:JG:390:ARG:HG2	1.88	0.73
44:JI:259:LEU:HD11	44:JI:316:SER:CB	2.17	0.73
45:JN:63:ALA:O	45:JN:89:ASN:ND2	2.17	0.73
45:KD:398:TYR:HB3	45:KD:403:MET:HE2	1.70	0.73
45:KF:208:TYR:HE1	45:KF:225:LEU:HD11	1.54	0.73
45:KN:190:HIS:O	45:KN:193:VAL:HG12	1.88	0.73
44:LC:224:TYR:CD1	45:LD:323:THR:HG21	2.23	0.73
45:LH:31:ASP:OD2	45:LH:37:HIS:ND1	2.19	0.73
45:LH:262:ARG:NH1	45:LH:262:ARG:HB2	2.03	0.73
45:MB:271:ALA:HB1	45:MB:272:PRO:HA	1.67	0.73
45:ML:19:LYS:HE2	45:ML:19:LYS:HA	1.70	0.73
45:ML:49:VAL:HG21	45:ML:241:ARG:CG	2.18	0.73
44:MM:169:PHE:HB3	44:MM:204:LEU:HD11	1.70	0.73
45:MN:295:ASP:OD2	45:MN:297:LYS:NZ	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:296:PHE:HE1	44:NE:335:ILE:HG21	1.52	0.73
45:NF:3:GLU:HG3	45:NF:127:CYS:HB2	1.70	0.73
44:OG:204:LEU:HD13	44:OG:231:ILE:CD1	2.13	0.73
44:OK:329:ASN:OD1	44:OK:330:ALA:N	2.20	0.73
45:OL:409:THR:O	45:OL:412:GLU:HG3	1.87	0.73
44:OM:328:VAL:HG11	44:OM:353:VAL:HG21	1.69	0.73
44:PA:108:TYR:HA	44:PA:112:LYS:HE3	1.69	0.73
45:PJ:372:THR:HA	45:PJ:422:TYR:CE2	2.23	0.73
44:PK:67:PHE:HB2	44:PK:92:LEU:HD13	1.69	0.73
44:PM:104:ALA:HB1	44:PM:411:GLU:HB3	1.70	0.73
45:QB:311:LEU:HB2	45:QB:370:ASN:ND2	2.03	0.73
44:QC:31:GLN:NE2	44:QC:35:GLN:HG2	2.03	0.73
45:QF:372:THR:HA	45:QF:422:TYR:HE1	1.52	0.73
44:QM:258:ASN:ND2	44:QM:352:LYS:HD3	2.03	0.73
44:RC:24:PHE:HD1	44:RC:243:ARG:HH12	1.35	0.73
44:RC:271:SER:HB2	44:RC:377:MET:CG	2.18	0.73
45:RD:143:THR:O	45:RD:147:MET:N	2.21	0.73
44:RG:33:ASP:HB3	44:RG:35:GLN:HE22	1.52	0.73
45:RH:5:VAL:HG12	45:RH:62:ARG:HD2	1.70	0.73
45:RH:341:PHE:HD2	45:RH:348:ASN:HD21	1.33	0.73
45:RH:413:SER:O	45:RH:417:ASP:N	2.21	0.73
44:RK:24:PHE:HE1	44:RK:236:SER:HA	1.54	0.73
45:RL:164:MET:O	45:RL:197:ASP:HB2	1.88	0.73
44:RM:439:THR:HG22	45:RN:390:ARG:HH21	1.53	0.73
45:SD:268:ILE:HG13	45:SD:300:MET:CE	2.18	0.73
44:TA:344:VAL:HG23	44:TA:347:CYS:HB3	1.69	0.73
44:TE:185:TYR:HA	44:TE:395:PHE:CE1	2.22	0.73
45:TF:256:ASN:O	44:TG:181:VAL:HG21	1.89	0.73
45:TH:248:SER:CB	45:TH:252:LYS:HD2	2.19	0.73
44:TI:3:GLU:CG	44:TI:129:CYS:HB3	2.16	0.73
44:TI:261:PRO:HA	45:TJ:394:PHE:CE1	2.23	0.73
44:TM:194:LEU:HB2	44:TM:198:THR:HG21	1.70	0.73
44:UG:276:ILE:HG12	44:UG:281:ALA:HB2	1.68	0.73
45:UH:237:THR:HG23	45:UH:241:ARG:HH21	1.53	0.73
44:UI:101:ASN:HA	44:UI:144:GLY:H	1.52	0.73
44:UI:247:ALA:HB1	45:UJ:222:TYR:CD2	2.23	0.73
45:UN:211:CYS:O	45:UN:216:LYS:N	2.21	0.73
44:VA:286:LEU:HD13	44:VA:371:VAL:HG23	1.70	0.73
45:VB:133:PHE:O	45:VB:165:GLU:N	2.19	0.73
45:VB:266:PHE:HE1	45:VB:370:ASN:HB2	1.53	0.73
44:VE:90:GLU:HG3	44:VE:121:ARG:NH2	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:425:LEU:O	44:VE:429:GLU:N	2.21	0.73
45:VF:204:ASN:HA	45:VF:207:LEU:HD12	1.70	0.73
44:VI:284:GLU:HG3	44:VI:286:LEU:HD22	1.68	0.73
45:VJ:97:ALA:O	45:VJ:103:LYS:HD2	1.87	0.73
45:VL:232:ALA:O	45:VL:236:VAL:HG13	1.87	0.73
45:VN:139:LEU:CD1	45:VN:168:SER:HB3	2.18	0.73
44:WC:272:TYR:CD2	44:WC:275:ILE:HD11	2.22	0.73
45:WD:99:ASN:HA	45:WD:142:GLY:HA3	1.69	0.73
44:WG:406:HIS:CG	45:WH:261:PRO:HD3	2.23	0.73
45:WJ:178:THR:CG2	45:WJ:181:GLU:HG3	2.17	0.73
1:6H:255:TYR:HE1	45:FF:39:ASP:HB2	1.53	0.73
2:1A:71:TYR:CE1	44:AE:223:THR:HG21	2.24	0.73
18:1F:151:MET:SD	45:GL:91:VAL:HA	2.28	0.73
22:1L:205:GLU:OE2	44:BI:84:ARG:NH2	2.20	0.73
27:1W:230:ALA:HA	35:7R:3:TYR:OH	1.87	0.73
34:4F:229:ARG:NH2	45:HN:45:GLU:OE1	2.21	0.73
37:5A:57:PRO:HG2	45:KB:390:ARG:CZ	2.18	0.73
37:5D:40:VAL:HA	44:KK:261:PRO:HD2	1.68	0.73
35:5R:472:GLU:N	35:5R:472:GLU:OE1	2.21	0.73
36:5S:91:LEU:HD11	36:5S:96:LEU:CD2	2.18	0.73
35:6R:80:ARG:HH22	44:MM:38:SER:CA	2.01	0.73
43:8R:33:UNK:O	43:8R:37:UNK:N	2.20	0.73
44:AA:225:THR:HB	44:AA:229:ARG:HH12	1.53	0.73
45:AB:342:VAL:HG13	45:AB:345:ILE:HG22	1.69	0.73
45:AB:406:MET:O	45:AB:410:GLU:HG3	1.88	0.73
44:AG:75:ILE:O	44:AG:78:VAL:HG12	1.88	0.73
44:AG:402:ARG:HD2	44:AG:405:VAL:HG11	1.68	0.73
44:AM:259:LEU:O	44:AM:259:LEU:HD23	1.88	0.73
45:AN:73:MET:O	45:AN:76:VAL:HG12	1.88	0.73
44:BE:88:HIS:CE1	44:BE:90:GLU:HG2	2.24	0.73
44:BE:141:VAL:CG1	44:BE:172:TYR:HA	2.18	0.73
44:BI:254:GLU:HA	44:BI:257:THR:CG2	2.18	0.73
45:BJ:64:ILE:HA	45:BJ:89:ASN:HB3	1.70	0.73
45:BL:193:VAL:HG21	45:BL:262:ARG:HH22	1.53	0.73
45:CF:324:LYS:HD3	44:CG:222:PRO:HD2	1.71	0.73
45:CH:230:SER:O	45:CH:233:MET:HB2	1.89	0.73
44:CI:4:VAL:HG23	44:CI:134:GLY:O	1.87	0.73
45:CJ:86:ARG:HD2	45:DJ:281:TYR:CD1	2.24	0.73
45:CL:104:GLY:O	45:CL:147:MET:HB2	1.88	0.73
45:CN:355:ASP:O	45:CN:356:ILE:HD13	1.88	0.73
44:DA:273:ALA:HB1	44:DA:274:PRO:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DE:434:GLU:O	44:DE:437:ILE:HG12	1.87	0.73
45:DF:418:LEU:O	45:DF:422:TYR:N	2.16	0.73
45:DJ:383:GLU:O	45:DJ:386:THR:HG22	1.89	0.73
45:EB:11:GLN:N	48:EB:501:GDP:O3B	2.16	0.73
44:EC:219:ILE:HG21	44:EC:222:PRO:HB3	1.69	0.73
44:EE:208:ALA:HA	44:EE:304:LYS:HE3	1.71	0.73
45:EN:106:TYR:CE2	45:EN:403:MET:HG2	2.24	0.73
44:FE:88:HIS:CE1	44:FE:90:GLU:HG2	2.23	0.73
44:FE:242:LEU:HD11	44:FE:252:ILE:HG13	1.68	0.73
44:FI:276:ILE:HD11	44:FI:280:LYS:HB3	1.69	0.73
44:FM:88:HIS:HB3	44:FM:91:GLN:CG	2.18	0.73
45:FN:234:SER:O	45:FN:238:CYS:N	2.22	0.73
44:GA:344:VAL:HG12	44:GA:347:CYS:HB3	1.69	0.73
44:GC:156:ARG:HG3	44:GC:160:ASP:OD2	1.88	0.73
45:GD:163:ILE:CD1	45:GD:250:LEU:HD22	2.11	0.73
45:GD:202:ILE:CD1	45:GD:268:ILE:HD11	2.14	0.73
44:GE:271:SER:OG	44:GE:301:MET:HA	1.87	0.73
44:GI:141:VAL:HG11	44:GI:172:TYR:CD2	2.23	0.73
45:GJ:378:PHE:O	45:GJ:382:ALA:N	2.17	0.73
44:GM:141:VAL:CG1	44:GM:173:PRO:HD3	2.19	0.73
44:HA:298:PRO:HG3	44:HA:308:ARG:HH12	1.53	0.73
44:HG:256:GLN:HB3	45:HJ:397:TRP:CZ2	2.23	0.73
45:HJ:68:LEU:HD11	45:HJ:147:MET:HE3	1.68	0.73
44:HK:177:VAL:HG21	44:HK:207:GLU:OE2	1.88	0.73
44:HK:311:LYS:N	44:HK:382:THR:OG1	2.21	0.73
44:HK:316:SER:CB	44:HK:352:LYS:HB3	2.15	0.73
45:HN:269:GLY:HA2	45:HN:300:MET:HE1	1.67	0.73
45:HN:288:GLU:O	45:HN:291:GLN:HG3	1.89	0.73
45:IH:294:PHE:CD2	45:IH:333:VAL:HG21	2.24	0.73
44:II:332:ILE:HD12	44:II:351:PHE:HD2	1.52	0.73
44:IM:221:ARG:NH1	45:IN:325:GLU:HG2	2.04	0.73
44:IM:284:GLU:HG3	44:IM:286:LEU:CD2	2.18	0.73
44:JK:349:THR:CG2	45:JN:176:SER:HB2	2.17	0.73
45:JN:178:THR:HB	45:JN:181:GLU:HG3	1.70	0.73
44:KA:242:LEU:HD11	44:KA:252:ILE:CD1	2.18	0.73
45:KF:65:LEU:HD12	45:KF:90:PHE:HE1	1.53	0.73
45:KF:65:LEU:HD11	45:KF:85:PHE:CE2	2.24	0.73
45:KN:60:VAL:CG1	45:KN:86:ARG:HG3	2.17	0.73
45:LB:135:ILE:N	45:LB:165:GLU:O	2.18	0.73
45:LF:214:THR:O	45:LF:275:SER:HB3	1.88	0.73
44:LG:36:MET:SD	44:LG:37:PRO:HD2	2.29	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:257:LEU:HD21	45:LH:314:SER:HB2	1.71	0.73
45:LJ:20:PHE:HB2	45:LJ:233:MET:HE1	1.71	0.73
44:MA:276:ILE:HD13	44:MA:281:ALA:HA	1.70	0.73
44:MA:288:VAL:HA	44:MA:291:ILE:HG12	1.69	0.73
45:MB:151:LEU:O	45:MB:155:VAL:HG23	1.88	0.73
45:MD:207:LEU:HB3	45:MD:225:LEU:CD2	2.18	0.73
44:MG:111:GLY:HA3	44:MG:149:LEU:HD21	1.70	0.73
44:MG:348:PRO:HD2	45:MJ:388:MET:CE	2.17	0.73
44:MM:322:ASP:OD2	44:MM:372:MET:HB2	1.89	0.73
44:NE:105:ARG:HA	44:NE:109:THR:OG1	1.88	0.73
44:NE:186:ASN:OD1	44:NE:187:SER:N	2.21	0.73
45:NF:194:GLU:OE2	45:NF:195:ASN:ND2	2.21	0.73
44:NI:407:TRP:CE3	45:NJ:255:VAL:HG22	2.23	0.73
45:NN:86:ARG:CZ	45:ON:281:TYR:HB2	2.19	0.73
44:OA:348:PRO:HG2	45:OD:384:GLN:HE21	1.53	0.73
44:OG:423:GLU:O	44:OG:427:ALA:N	2.16	0.73
45:OL:49:VAL:HG21	45:OL:241:ARG:CG	2.16	0.73
45:ON:269:GLY:N	45:ON:367:PHE:O	2.22	0.73
44:PC:68:LEU:HG	44:PC:93:ILE:HB	1.69	0.73
44:PC:141:VAL:CG2	44:PC:187:SER:HA	2.18	0.73
44:PE:107:HIS:CD2	44:PE:151:SER:HB2	2.23	0.73
44:PE:251:ASP:HB2	44:PE:254:GLU:HG3	1.70	0.73
44:PI:305:CYS:SG	44:PI:383:ALA:HB1	2.28	0.73
44:QA:392:ASP:OD1	44:QA:425:LEU:HD13	1.88	0.73
45:QH:309:ARG:HG3	45:QH:426:GLN:NE2	2.04	0.73
45:QJ:112:LEU:O	45:QJ:112:LEU:HD23	1.88	0.73
44:QK:84:ARG:HG3	44:QK:85:GLN:NE2	2.02	0.73
45:QN:319:GLY:N	45:QN:354:CYS:O	2.22	0.73
44:RA:184:PRO:O	44:RA:188:ILE:HD12	1.88	0.73
45:RD:246:LEU:HD13	45:RD:353:ILE:HD13	1.69	0.73
44:RE:71:GLU:OE2	44:RE:73:THR:OG1	2.05	0.73
45:RL:370:ASN:OD1	45:RL:422:TYR:OH	2.05	0.73
44:SC:76:ASP:OD1	44:SC:79:ARG:NH2	2.22	0.73
44:SK:270:SER:HB2	44:SK:378:ILE:HD13	1.69	0.73
44:SK:350:GLY:HA2	45:SL:179:VAL:HG12	1.69	0.73
44:TA:247:ALA:HB3	44:TA:355:ILE:CG2	2.17	0.73
44:TA:270:SER:HB3	44:TA:378:ILE:HD13	1.69	0.73
45:TD:116:VAL:HG22	45:TD:120:VAL:CG1	2.18	0.73
45:TH:385:PHE:HE2	45:TH:412:GLU:HB2	1.53	0.73
44:UC:263:PRO:HD3	45:UD:396:HIS:CD2	2.22	0.73
44:UI:115:VAL:HG11	44:UI:152:LEU:CD2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:170:VAL:CG2	45:UL:171:PRO:HD2	2.19	0.73
44:VA:301:MET:CE	44:VA:307:PRO:HD3	2.19	0.73
44:VC:270:SER:HB3	44:VC:378:ILE:CD1	2.19	0.73
45:VD:45:GLU:OE1	45:VD:46:ARG:HG2	1.88	0.73
44:VE:358:GLN:OE1	44:VE:359:PRO:HD2	1.88	0.73
44:VG:141:VAL:HG21	44:VG:170:THR:HG22	1.69	0.73
45:VH:135:ILE:O	45:VH:167:PHE:N	2.20	0.73
44:VK:88:HIS:CE1	44:VK:90:GLU:HG2	2.23	0.73
44:VM:149:LEU:O	44:VM:153:LEU:HG	1.88	0.73
44:WA:205:ASP:OD1	44:WA:303:ALA:HA	1.88	0.73
44:WA:229:ARG:HH11	44:WA:229:ARG:HG3	1.54	0.73
44:WC:317:MET:HE2	44:WC:332:ILE:HD11	1.70	0.73
45:WF:112:LEU:O	45:WF:115:SER:OG	2.04	0.73
44:WM:88:HIS:H	44:WM:91:GLN:NE2	1.86	0.73
20:1J:61:LEU:HD21	44:IC:279:GLU:HG3	1.70	0.73
21:2K:433:LEU:HD13	44:GE:282:TYR:CE2	2.20	0.73
26:2R:449:TYR:OH	44:EG:47:ASP:OD1	2.02	0.73
37:5A:141:SER:HA	45:ND:320:ARG:NH2	2.04	0.73
37:5D:60:GLY:N	45:KN:385:PHE:HB3	2.04	0.73
37:5D:106:SER:HA	44:NM:279:GLU:HG3	1.67	0.73
41:6G:148:ASP:OD1	41:6G:149:ALA:N	2.21	0.73
35:6R:268:GLU:HG3	45:DN:280:GLN:HG2	1.68	0.73
43:8P:17:UNK:O	43:8P:21:UNK:N	2.21	0.73
45:AB:164:MET:CE	45:AB:164:MET:HA	2.18	0.73
45:AN:390:ARG:O	45:AN:391:ARG:HD2	1.89	0.73
45:AN:390:ARG:NH1	45:AN:391:ARG:HD3	2.01	0.73
44:BA:435:VAL:HA	45:BD:391:ARG:NH2	2.04	0.73
44:BC:141:VAL:CG2	44:BC:187:SER:HA	2.17	0.73
45:BD:147:MET:HA	45:BD:150:LEU:HD21	1.69	0.73
44:BI:254:GLU:CG	45:BL:98:GLY:HA2	2.18	0.73
44:BI:320:ARG:CD	44:BI:360:PRO:HG3	2.18	0.73
44:BK:188:ILE:HG23	44:BK:425:LEU:HD12	1.69	0.73
45:CB:249:ASP:OD1	45:CB:252:LYS:HG2	1.89	0.73
44:CC:215:ARG:NH2	44:CC:300:ASN:OD1	2.18	0.73
44:CC:311:LYS:HD2	44:CC:342:GLN:HG3	1.71	0.73
45:CH:73:MET:SD	45:CH:92:PHE:HB3	2.29	0.73
44:CK:207:GLU:HA	44:CK:210:TYR:CD2	2.23	0.73
44:DA:422:ARG:NH1	44:DA:426:ALA:HB2	2.02	0.73
44:DE:384:ILE:O	44:DE:387:VAL:HG22	1.89	0.73
44:DG:88:HIS:CG	44:DG:89:PRO:HD2	2.24	0.73
44:DG:149:LEU:O	44:DG:153:LEU:HD23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:212:ILE:HD12	44:DG:300:ASN:HA	1.71	0.73
45:DH:32:PRO:HG3	45:DH:81:PHE:HE1	1.53	0.73
44:DI:76:ASP:OD1	44:DI:79:ARG:NH2	2.16	0.73
45:DJ:31:ASP:HB3	45:DJ:32:PRO:HD2	1.69	0.73
45:DL:52:ASN:OD1	45:DL:62:ARG:NH2	2.21	0.73
45:DL:376:GLU:HA	45:DL:380:ARG:NH2	2.04	0.73
44:EC:189:LEU:HD23	44:EC:421:ALA:HB2	1.70	0.73
44:EE:10:GLY:O	44:EE:14:ILE:HD12	1.89	0.73
45:EF:107:THR:OG1	45:EF:108:GLU:OE1	2.05	0.73
45:EF:110:ALA:O	45:EF:113:ILE:HG22	1.87	0.73
44:EI:7:ILE:HG12	44:EI:136:LEU:O	1.88	0.73
44:EI:202:VAL:HA	44:EI:268:MET:O	1.88	0.73
45:EJ:256:ASN:ND2	45:EJ:350:LYS:HD3	2.01	0.73
44:EK:205:ASP:OD2	44:EK:304:LYS:N	2.20	0.73
45:EL:256:ASN:OD1	44:EM:181:VAL:HG22	1.88	0.73
45:FB:150:LEU:HD21	45:FB:154:LYS:NZ	2.02	0.73
45:FB:318:ARG:HG2	45:FB:364:ALA:O	1.88	0.73
44:FC:76:ASP:OD2	45:FD:46:ARG:NH2	2.21	0.73
45:FF:73:MET:HE3	45:FF:92:PHE:HB3	1.69	0.73
44:FG:210:TYR:CE1	44:FG:227:LEU:HD11	2.23	0.73
44:FI:398:MET:HE1	45:FJ:345:ILE:HA	1.70	0.73
45:GB:183:TYR:OH	45:GB:393:ALA:O	2.02	0.73
44:GI:5:ILE:HG12	44:GI:64:ARG:HD2	1.71	0.73
45:GN:23:VAL:HG21	45:GN:230:SER:HB3	1.69	0.73
45:GN:258:ILE:HG13	45:GN:266:PHE:HZ	1.53	0.73
44:HA:91:GLN:NE2	44:HA:121:ARG:HD2	2.03	0.73
45:HH:103:LYS:HA	45:HH:107:THR:HG22	1.71	0.73
44:HI:188:ILE:HG23	44:HI:189:LEU:HD12	1.71	0.73
45:HL:166:THR:HG21	45:HL:192:LEU:HD11	1.70	0.73
44:IE:203:MET:HG3	44:IE:384:ILE:HD11	1.69	0.73
44:IG:278:ALA:HB2	44:IG:369:ALA:HB2	1.69	0.73
45:IH:318:ARG:HD3	45:IH:358:PRO:HG3	1.69	0.73
45:IN:318:ARG:NH1	45:IN:358:PRO:HD3	2.04	0.73
45:JB:178:THR:O	45:JB:181:GLU:HG3	1.89	0.73
45:JF:142:GLY:N	48:JF:501:GDP:O2B	2.22	0.73
45:JH:207:LEU:HG	45:JH:300:MET:HE1	1.71	0.73
45:KB:6:HIS:HB3	45:KB:63:ALA:CB	2.19	0.73
45:KD:87:PRO:HD3	45:LD:281:TYR:HD1	1.53	0.73
44:KE:407:TRP:CZ3	45:KF:255:VAL:HA	2.23	0.73
45:KH:31:ASP:OD1	45:KH:35:THR:N	2.22	0.73
45:KN:128:ASP:OD1	45:KN:129:CYS:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:261:PRO:HB3	44:LA:346:TRP:CH2	2.22	0.73
45:LF:278:SER:HB3	45:LF:282:ARG:HH21	1.53	0.73
45:LH:267:MET:HE3	45:LH:267:MET:HA	1.70	0.73
44:ME:221:ARG:NH1	45:MF:322:SER:OG	2.15	0.73
45:NB:52:ASN:HB3	45:NB:60:VAL:HG13	1.70	0.73
45:NF:1:MET:O	45:NF:2:ARG:HG2	1.88	0.73
45:NH:372:THR:HG22	45:NH:426:GLN:CD	2.09	0.73
44:NI:261:PRO:HG2	44:NI:313:MET:HG2	1.69	0.73
44:NK:77:GLU:O	44:NK:81:GLY:N	2.20	0.73
44:OA:311:LYS:HB2	44:OA:344:VAL:HG22	1.69	0.73
44:OE:55:GLU:HG3	44:OE:57:GLY:H	1.54	0.73
45:OH:67:ASP:HB3	45:OH:73:MET:CE	2.19	0.73
45:ON:109:GLY:O	45:ON:113:ILE:N	2.20	0.73
45:ON:318:ARG:HB2	45:ON:358:PRO:HD3	1.69	0.73
44:PC:205:ASP:OD2	44:PC:304:LYS:N	2.19	0.73
45:PD:318:ARG:HH11	45:PD:358:PRO:HG3	1.53	0.73
44:PE:326:LYS:CB	45:PH:220:PRO:HG2	2.17	0.73
45:PH:97:ALA:CB	45:PH:143:THR:HB	2.18	0.73
45:PH:313:ALA:HA	45:PH:369:GLY:HA2	1.70	0.73
44:PK:396:ASP:OD1	44:PK:422:ARG:NH2	2.22	0.73
44:PM:274:PRO:HD2	44:PM:374:ALA:HB2	1.69	0.73
44:PM:407:TRP:CZ3	45:PN:255:VAL:HA	2.23	0.73
44:QC:14:ILE:HD11	44:QC:69:ASP:HB2	1.69	0.73
45:QL:237:THR:HG22	45:QL:250:LEU:HD21	1.70	0.73
45:QN:271:ALA:HB3	45:QN:293:MET:CE	2.18	0.73
45:RB:295:ASP:OD1	45:RB:296:ALA:N	2.21	0.73
44:RC:4:VAL:HG23	44:RC:134:GLY:O	1.89	0.73
45:RF:7:ILE:HG12	45:RF:64:ILE:CB	2.18	0.73
44:RG:336:LYS:HD3	44:RG:351:PHE:HE1	1.54	0.73
45:RJ:360:GLY:O	45:RJ:361:LEU:HD23	1.87	0.73
45:SB:325:GLU:HA	45:SB:328:GLU:HG2	1.69	0.73
45:SB:350:LYS:HA	44:SC:179:THR:O	1.88	0.73
45:SH:116:VAL:HA	45:SH:119:VAL:HG12	1.70	0.73
44:SI:145:THR:HG22	46:SI:501:GTP:PG	2.28	0.73
44:SK:254:GLU:CG	45:SL:98:GLY:HA2	2.17	0.73
44:TA:2:ARG:HD3	44:TA:242:LEU:HD22	1.70	0.73
44:TA:287:SER:HA	44:TA:373:ARG:NH1	2.03	0.73
45:TB:257:LEU:HA	45:TB:312:THR:HG21	1.71	0.73
45:TD:21:TRP:CZ2	45:TD:63:ALA:HB2	2.23	0.73
44:TE:208:ALA:CB	44:TE:304:LYS:HG2	2.19	0.73
45:TF:252:LYS:CA	44:TG:100:ALA:HB1	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:236:SER:O	44:TI:239:THR:OG1	2.03	0.73
45:TJ:271:ALA:HB3	45:TJ:365:VAL:HG23	1.71	0.73
44:TK:276:ILE:HG12	44:TK:281:ALA:HA	1.68	0.73
45:TL:318:ARG:HH11	45:TL:358:PRO:HG3	1.53	0.73
44:TM:322:ASP:OD1	44:TM:373:ARG:NH1	2.21	0.73
45:TN:179:VAL:O	45:TN:182:PRO:HD2	1.88	0.73
45:UB:8:GLN:HE21	45:UB:65:LEU:HG	1.52	0.73
44:UE:387:VAL:HA	44:UE:390:ARG:HH11	1.54	0.73
45:UJ:110:ALA:O	45:UJ:113:ILE:HG22	1.89	0.73
44:VA:3:GLU:OE2	44:VA:129:CYS:HB3	1.88	0.73
45:VH:398:TYR:HB3	45:VH:403:MET:CE	2.18	0.73
45:VL:294:PHE:CD2	45:VL:333:VAL:HG21	2.22	0.73
45:VL:306:ARG:HB2	45:VL:340:TYR:CE2	2.23	0.73
45:WB:221:THR:HG23	45:WB:224:ASP:H	1.53	0.73
44:WC:80:THR:HA	44:WC:84:ARG:HH21	1.53	0.73
44:WC:401:LYS:O	44:WC:402:ARG:HD3	1.87	0.73
45:WD:150:LEU:HD23	45:WD:154:LYS:HG3	1.69	0.73
44:WE:11:GLN:HG3	44:WE:74:VAL:HG11	1.68	0.73
44:WE:174:SER:HB2	44:WE:177:VAL:O	1.86	0.73
44:WG:427:ALA:O	44:WG:430:LYS:HG3	1.89	0.73
2:0A:34:LEU:HA	45:MB:356:ILE:HD12	1.69	0.73
22:1L:658:ARG:HH11	44:BE:80:THR:HG21	1.53	0.73
23:2M:80:PHE:HD2	44:IG:39:ASP:HB2	1.54	0.73
16:2X:3:ARG:H	45:ML:75:SER:HB3	1.54	0.73
2:3A:17:GLN:NE2	35:6R:46:GLU:O	2.20	0.73
32:3I:205:ILE:HD13	44:FK:116:ASP:HB3	1.69	0.73
26:3R:153:LYS:HE3	45:AN:75:SER:HB2	1.69	0.73
35:4R:407:LYS:O	45:EF:218:THR:HG21	1.88	0.73
37:5D:34:PHE:CE1	44:KK:431:ASP:CB	2.71	0.73
38:5E:173:LYS:HD3	45:KD:194:GLU:HA	1.69	0.73
38:5F:75:PHE:HD2	45:KF:421:GLU:HG3	1.50	0.73
35:7R:206:ASN:HB2	35:7R:210:GLU:OE2	1.88	0.73
42:8L:317:UNK:O	42:8L:321:UNK:N	2.20	0.73
45:AB:274:THR:CG2	45:AB:279:GLN:HA	2.19	0.73
45:AD:8:GLN:HE21	45:AD:65:LEU:HG	1.51	0.73
45:AH:3:GLU:HG3	45:AH:62:ARG:NH1	2.03	0.73
45:AH:133:PHE:HB2	45:AH:164:MET:SD	2.28	0.73
44:AK:11:GLN:HG3	44:AK:74:VAL:CG1	2.17	0.73
44:AK:217:LEU:HD21	44:AK:275:ILE:HG22	1.69	0.73
45:BD:8:GLN:HG3	45:BD:14:ASN:OD1	1.88	0.73
44:BE:2:ARG:CZ	44:BE:242:LEU:HD23	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:5:VAL:HG12	45:BF:62:ARG:CD	2.19	0.73
44:BG:212:ILE:CD1	44:BG:300:ASN:HA	2.18	0.73
45:BH:22:GLU:HA	45:BH:81:PHE:CD2	2.22	0.73
45:BH:143:THR:OG1	48:BH:502:GDP:O3B	2.06	0.73
44:BI:221:ARG:HD2	45:BJ:322:SER:HB3	1.71	0.73
45:CB:19:LYS:HD2	45:CB:227:HIS:NE2	2.02	0.73
44:CC:11:GLN:HE22	46:CC:501:GTP:PG	2.11	0.73
45:CD:239:CYS:SG	45:CD:248:SER:HB3	2.29	0.73
45:CD:412:GLU:OE2	45:CD:416:ASN:ND2	2.21	0.73
44:CG:141:VAL:HG11	44:CG:172:TYR:HA	1.71	0.73
45:CJ:259:PRO:HA	44:CK:404:PHE:CE1	2.23	0.73
44:CK:267:PHE:HB3	44:CK:384:ILE:HG12	1.70	0.73
44:CK:311:LYS:CD	44:CK:342:GLN:HE22	2.02	0.73
45:CN:44:LEU:HA	45:CN:47:ILE:HD11	1.69	0.73
44:DE:62:VAL:HG11	44:EE:283:HIS:O	1.89	0.73
44:DI:287:SER:O	44:DI:291:ILE:HG23	1.88	0.73
44:DI:311:LYS:N	44:DI:382:THR:OG1	2.20	0.73
44:DK:174:SER:HB3	44:DK:175:PRO:HD3	1.70	0.73
44:EE:157:LEU:HB3	44:EE:166:LYS:HD3	1.71	0.73
44:EG:88:HIS:HB3	44:EG:91:GLN:CG	2.15	0.73
44:EG:349:THR:CG2	45:EH:179:VAL:HA	2.18	0.73
44:EM:30:ILE:HG12	44:EM:36:MET:SD	2.28	0.73
45:FB:134:GLN:HA	45:FB:165:GLU:O	1.88	0.73
45:FB:309:ARG:NH1	45:FB:342:VAL:HG12	2.04	0.73
44:FE:288:VAL:HA	44:FE:291:ILE:HG12	1.70	0.73
44:FI:311:LYS:N	44:FI:382:THR:HG1	1.87	0.73
44:GA:78:VAL:HG13	44:GA:92:LEU:HD23	1.69	0.73
44:GA:301:MET:CG	44:GA:307:PRO:HG3	2.18	0.73
45:GB:1:MET:HG3	45:GB:2:ARG:H	1.52	0.73
45:GD:310:TYR:CD1	45:GD:371:SER:HB2	2.23	0.73
44:GE:27:GLU:HG2	44:GE:361:THR:HG22	1.69	0.73
45:GF:152:ILE:HG23	45:GF:156:ARG:NH1	2.04	0.73
44:GG:211:ASP:HB3	44:GG:215:ARG:NH1	2.04	0.73
45:GJ:156:ARG:NH1	45:GJ:160:PRO:HA	2.03	0.73
44:GK:318:MET:N	44:GK:376:CYS:O	2.20	0.73
45:GL:222:TYR:O	45:GL:226:ASN:N	2.21	0.73
45:GL:309:ARG:HG2	45:GL:340:TYR:HA	1.70	0.73
45:GN:257:LEU:O	45:GN:259:PRO:HD3	1.88	0.73
45:HB:73:MET:HE1	45:HB:92:PHE:HB3	1.70	0.73
44:HC:69:ASP:OD1	44:HC:70:LEU:N	2.21	0.73
45:HD:231:ALA:HB1	45:HD:270:PHE:CE1	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HJ:257:LEU:HB3	45:HJ:266:PHE:HE1	1.52	0.73
44:HK:276:ILE:HD13	44:HK:281:ALA:HA	1.71	0.73
45:HN:198:GLU:OE2	45:HN:254:ALA:HB2	1.89	0.73
44:IA:239:THR:O	44:IA:243:ARG:NH1	2.21	0.73
45:IF:151:LEU:O	45:IF:155:VAL:HG22	1.88	0.73
44:IG:262:TYR:HB3	44:IG:263:PRO:HD2	1.71	0.73
45:IJ:19:LYS:O	45:IJ:23:VAL:N	2.19	0.73
45:JD:2:ARG:NH2	45:JD:240:LEU:HA	2.03	0.73
45:JF:134:GLN:HG2	45:JF:165:GLU:HB2	1.69	0.73
45:JH:344:TRP:CZ3	45:JH:345:ILE:HB	2.23	0.73
44:KA:422:ARG:HH12	44:KA:426:ALA:HB2	1.53	0.73
45:KF:61:PRO:HG3	45:KF:84:LEU:HB3	1.70	0.73
44:KM:172:TYR:HB3	44:KM:173:PRO:HD2	1.69	0.73
45:LB:318:ARG:HB3	45:LB:358:PRO:CD	2.18	0.73
44:LG:71:GLU:HG3	45:LH:247:ASN:ND2	2.03	0.73
44:LG:155:GLU:HG3	44:LG:197:HIS:CE1	2.23	0.73
45:LH:161:ASP:OD2	45:LH:162:ARG:NH1	2.21	0.73
44:MA:131:GLY:O	44:MA:133:GLN:NE2	2.21	0.73
44:MA:203:MET:O	44:MA:204:LEU:HD23	1.88	0.73
44:MA:332:ILE:HD12	44:MA:351:PHE:CD1	2.23	0.73
44:ME:269:LEU:CD1	44:ME:303:ALA:HB3	2.19	0.73
44:MI:141:VAL:HG12	44:MI:171:ILE:O	1.88	0.73
44:MK:275:ILE:HG23	44:MK:368:LEU:HD11	1.69	0.73
45:NB:135:ILE:HD12	45:NB:152:ILE:CD1	2.14	0.73
45:ND:213:ARG:HD2	45:ND:214:THR:N	2.03	0.73
45:NJ:10:GLY:O	45:NJ:14:ASN:ND2	2.22	0.73
45:NJ:289:LEU:HD11	45:NJ:363:MET:SD	2.29	0.73
44:NM:386:GLU:O	44:NM:388:PHE:N	2.22	0.73
45:NN:200:MET:CE	45:NN:268:ILE:HG21	2.18	0.73
45:NN:289:LEU:HD11	45:NN:363:MET:HG3	1.71	0.73
44:OC:261:PRO:HA	45:OF:394:PHE:CE1	2.23	0.73
45:OD:30:ILE:HD11	45:OD:47:ILE:HD11	1.69	0.73
44:OE:212:ILE:HA	44:OE:215:ARG:NH1	2.02	0.73
44:OE:328:VAL:CG1	44:OE:353:VAL:HG21	2.16	0.73
45:OF:377:MET:O	45:OF:381:VAL:HG23	1.88	0.73
44:OG:207:GLU:HB3	44:OG:304:LYS:HE2	1.71	0.73
45:OJ:97:ALA:HB2	45:OJ:143:THR:HB	1.70	0.73
45:ON:34:GLY:O	45:ON:59:TYR:N	2.21	0.73
45:ON:103:LYS:NZ	45:ON:401:GLU:OE2	2.17	0.73
45:ON:319:GLY:CA	45:ON:357:PRO:HG3	2.18	0.73
45:PB:113:ILE:HA	45:PB:116:VAL:HG12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:315:CYS:SG	44:PC:379:SER:HB3	2.28	0.73
45:PD:313:ALA:HA	45:PD:369:GLY:HA2	1.69	0.73
45:PD:385:PHE:CE2	45:PD:412:GLU:HB2	2.24	0.73
44:PK:311:LYS:NZ	44:PK:438:GLU:OE2	2.21	0.73
44:PM:430:LYS:O	44:PM:434:GLU:N	2.21	0.73
44:QC:31:GLN:NE2	44:QC:33:ASP:HB2	2.04	0.73
45:RD:31:ASP:HB3	45:RD:32:PRO:HD3	1.69	0.73
45:RD:193:VAL:HA	45:RD:264:HIS:CE1	2.24	0.73
44:RE:166:LYS:CE	44:RE:198:THR:HA	2.18	0.73
44:RG:63:PRO:HG2	44:RG:86:LEU:HG	1.69	0.73
45:RJ:7:ILE:HD13	45:RJ:135:ILE:CD1	2.19	0.73
45:RJ:86:ARG:HD3	45:SJ:281:TYR:HB3	1.70	0.73
45:RJ:286:VAL:HA	45:RJ:289:LEU:HD12	1.69	0.73
44:RM:318:MET:O	44:RM:376:CYS:N	2.17	0.73
44:SC:6:SER:HA	44:SC:136:LEU:HB2	1.70	0.73
44:SC:141:VAL:HG12	44:SC:171:ILE:O	1.89	0.73
45:SJ:135:ILE:N	45:SJ:165:GLU:O	2.22	0.73
44:SM:174:SER:HB2	44:SM:177:VAL:O	1.87	0.73
44:TA:167:LEU:HG	44:TA:200:VAL:HB	1.70	0.73
44:TA:171:ILE:HD13	46:TA:501:GTP:N2	2.03	0.73
45:TB:3:GLU:CB	45:TB:49:VAL:HA	2.19	0.73
45:TD:34:GLY:O	45:TD:59:TYR:N	2.21	0.73
45:TH:377:MET:O	45:TH:380:ARG:HG2	1.88	0.73
45:TL:324:LYS:HD3	44:TM:222:PRO:HG2	1.70	0.73
44:TM:208:ALA:O	44:TM:212:ILE:HG12	1.88	0.73
45:UB:166:THR:OG1	45:UB:199:CYS:HA	1.87	0.73
45:UB:324:LYS:HD3	44:UC:222:PRO:HD2	1.69	0.73
44:UC:67:PHE:O	44:UC:93:ILE:N	2.19	0.73
44:UC:235:ILE:O	44:UC:239:THR:N	2.19	0.73
45:UF:202:ILE:HG23	45:UF:300:MET:HG3	1.70	0.73
44:UG:71:GLU:OE2	44:UG:73:THR:HG23	1.89	0.73
44:UG:262:TYR:OH	45:UH:391:ARG:O	2.06	0.73
44:UI:101:ASN:ND2	46:UI:501:GTP:O1G	2.21	0.73
44:UI:228:ASN:O	44:UI:232:ALA:N	2.14	0.73
44:UI:406:HIS:O	44:UI:410:GLY:N	2.20	0.73
44:UK:226:ASN:ND2	44:UK:367:ASP:OD2	2.16	0.73
45:VB:83:GLN:O	45:WB:281:TYR:OH	2.05	0.73
44:VC:63:PRO:HG2	44:VC:86:LEU:HG	1.71	0.73
45:VD:295:ASP:OD1	45:VD:296:ALA:N	2.21	0.73
44:VI:195:LEU:O	44:VI:266:HIS:NE2	2.21	0.73
44:VI:398:MET:CE	45:VJ:345:ILE:HD12	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:288:GLU:O	45:VL:291:GLN:HG3	1.87	0.73
44:WC:301:MET:HE2	44:WC:307:PRO:HB3	1.70	0.73
44:WE:292:THR:HG21	44:WE:331:SER:HB2	1.69	0.73
44:WG:122:ILE:HD13	44:WG:125:LEU:HD12	1.70	0.73
44:WI:320:ARG:NH1	44:WI:360:PRO:HG3	2.04	0.73
45:WJ:207:LEU:HB3	45:WJ:225:LEU:HD22	1.70	0.73
45:WN:183:TYR:OH	45:WN:393:ALA:O	2.05	0.73
7:OF:150:TYR:CE2	45:FD:55:THR:HA	2.22	0.73
12:IS:43:TYR:HB2	44:WC:88:HIS:NE2	2.03	0.73
31:2H:192:GLN:HB2	45:AD:362:LYS:HZ1	1.52	0.73
2:3A:69:ASN:HD21	45:AN:363:MET:HE1	1.53	0.73
31:3H:191:LEU:HD21	45:AH:360:GLY:HA2	1.71	0.73
37:5B:39:ARG:HD2	44:KC:264:ARG:HH21	1.52	0.73
35:5R:101:GLU:OE2	45:AL:58:ARG:NH1	2.21	0.73
45:AB:54:ALA:HA	45:BB:283:ALA:HB2	1.69	0.73
45:AB:113:ILE:HD13	45:AB:150:LEU:HD22	1.70	0.73
44:AI:221:ARG:NH1	45:AJ:322:SER:OG	2.22	0.73
44:AI:358:GLN:NE2	44:AI:359:PRO:HD2	2.04	0.73
45:AL:360:GLY:O	45:AL:361:LEU:HD22	1.89	0.73
45:BF:170:VAL:HG23	45:BF:203:ASP:OD1	1.89	0.73
45:BF:251:ARG:O	45:BF:255:VAL:HG23	1.88	0.73
44:BG:221:ARG:NE	45:BH:322:SER:OG	2.21	0.73
45:BJ:178:THR:HB	45:BJ:181:GLU:CG	2.15	0.73
45:BL:342:VAL:HG13	45:BL:345:ILE:HG22	1.69	0.73
44:CA:271:SER:OG	44:CA:301:MET:HA	1.87	0.73
44:CE:2:ARG:HG3	44:CE:242:LEU:HD21	1.70	0.73
44:CG:128:ASN:HD21	44:DG:285:GLN:HE21	1.36	0.73
44:CK:8:HIS:HD2	44:CK:138:PHE:HB2	1.52	0.73
45:CL:255:VAL:HA	44:CM:407:TRP:HZ3	1.54	0.73
44:DI:105:ARG:O	44:DI:110:ILE:HG12	1.88	0.73
45:DJ:237:THR:HG22	45:DJ:250:LEU:HD21	1.70	0.73
45:DJ:258:ILE:HB	44:DK:407:TRP:HH2	1.52	0.73
45:DL:1:MET:N	45:DL:3:GLU:OE2	2.20	0.73
44:DM:205:ASP:OD1	44:DM:303:ALA:HA	1.89	0.73
45:ED:247:ASN:O	45:ED:252:LYS:NZ	2.18	0.73
44:EE:89:PRO:HD3	44:FC:283:HIS:ND1	2.02	0.73
44:EE:417:GLU:O	44:EE:420:GLU:HG2	1.88	0.73
44:EG:209:ILE:O	44:EG:213:CYS:N	2.15	0.73
44:EI:2:ARG:HD2	44:EI:242:LEU:CD1	2.19	0.73
45:FB:66:MET:HA	45:FB:91:VAL:HG23	1.70	0.73
44:FC:102:ASN:OD1	44:FC:105:ARG:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:103:PHE:HB3	44:FE:408:TYR:OH	1.88	0.73
44:FK:188:ILE:HD12	44:FK:425:LEU:HD11	1.70	0.73
44:FM:49:PHE:O	44:FM:53:PHE:N	2.21	0.73
45:FN:81:PHE:HB3	45:FN:84:LEU:HD13	1.70	0.73
45:GJ:372:THR:HA	45:GJ:422:TYR:CE2	2.18	0.73
45:GL:405:GLU:O	45:GL:409:THR:HG23	1.88	0.73
44:GM:169:PHE:HB3	44:GM:204:LEU:HD11	1.71	0.73
44:GM:407:TRP:CH2	45:GN:258:ILE:HB	2.23	0.73
45:GN:3:GLU:HB3	45:GN:49:VAL:HA	1.71	0.73
44:HA:313:MET:HA	44:HA:344:VAL:HG12	1.71	0.73
45:HB:208:TYR:CZ	45:HB:225:LEU:HD11	2.24	0.73
45:HD:54:ALA:HA	45:ID:283:ALA:HB2	1.70	0.73
45:HN:384:GLN:HB3	45:HN:387:ALA:HB2	1.69	0.73
45:IL:227:HIS:O	45:IL:230:SER:OG	2.05	0.73
45:IN:257:LEU:HA	45:IN:312:THR:HG21	1.69	0.73
44:JC:209:ILE:CG2	44:JC:227:LEU:HG	2.18	0.73
45:JF:263:LEU:HD22	45:JF:422:TYR:CD1	2.24	0.73
44:JI:313:MET:HB2	44:JI:380:ASN:O	1.88	0.73
45:JL:318:ARG:HG2	45:JL:357:PRO:HA	1.70	0.73
44:JM:200:VAL:HA	44:JM:266:HIS:HB2	1.70	0.73
45:KB:112:LEU:O	45:KB:112:LEU:HD23	1.88	0.73
45:KH:166:THR:OG1	45:KH:198:GLU:O	2.06	0.73
45:KJ:200:MET:HG2	45:KJ:266:PHE:HB2	1.70	0.73
45:KJ:267:MET:HE2	45:KJ:301:CYS:HB3	1.71	0.73
45:KL:31:ASP:OD2	45:KL:35:THR:OG1	2.05	0.73
45:LF:101:TRP:CE3	45:LF:187:LEU:HD13	2.23	0.73
45:MD:6:HIS:NE2	45:MD:8:GLN:OE1	2.20	0.73
45:NH:49:VAL:HG21	45:NH:241:ARG:HG2	1.71	0.73
45:NJ:52:ASN:OD1	45:NJ:62:ARG:NH2	2.22	0.73
44:NM:265:ILE:HG12	44:NM:432:TYR:HE1	1.53	0.73
45:NN:218:THR:HG23	45:NN:219:THR:HG23	1.70	0.73
44:OA:272:TYR:HD1	44:OA:376:CYS:HB2	1.53	0.73
44:OC:294:SER:HA	44:OC:297:GLU:HG2	1.70	0.73
44:OG:90:GLU:OE2	44:OG:121:ARG:NH2	2.21	0.73
44:OI:236:SER:HB2	44:OI:320:ARG:HH22	1.54	0.73
44:OK:221:ARG:HD3	45:OL:325:GLU:OE1	1.87	0.73
45:ON:11:GLN:HA	45:ON:72:THR:HG21	1.69	0.73
45:ON:341:PHE:HB3	45:ON:348:ASN:HD21	1.54	0.73
45:PB:315:ALA:HA	45:PB:367:PHE:HA	1.70	0.73
44:PE:181:VAL:HG22	45:PF:256:ASN:OD1	1.88	0.73
45:PF:1:MET:O	45:PF:2:ARG:HG2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:385:PHE:HE2	45:PL:412:GLU:HB2	1.54	0.73
45:QD:100:ASN:HD22	45:QD:103:LYS:HB2	1.53	0.73
45:QF:251:ARG:HB3	44:QG:100:ALA:HB2	1.68	0.73
44:QG:288:VAL:HG21	44:QG:323:VAL:HG21	1.71	0.73
45:QH:314:SER:CA	45:QH:350:LYS:HB3	2.18	0.73
45:QN:139:LEU:HD13	45:QN:168:SER:OG	1.87	0.73
45:RB:20:PHE:HA	45:RB:230:SER:HB3	1.69	0.73
44:RC:6:SER:O	44:RC:7:ILE:HD13	1.89	0.73
44:RC:287:SER:O	44:RC:290:GLU:HG3	1.89	0.73
44:RC:352:LYS:HA	45:RD:177:ASP:O	1.88	0.73
44:RI:346:TRP:CE3	44:RI:347:CYS:HB2	2.22	0.73
44:SA:140:SER:HG	46:SA:501:GTP:C1'	2.01	0.73
45:SF:247:ASN:HD22	44:SG:73:THR:HB	1.52	0.73
45:SH:342:VAL:HG13	45:SH:345:ILE:HG22	1.70	0.73
45:SJ:22:GLU:HG2	45:SJ:81:PHE:HB2	1.70	0.73
45:SL:286:VAL:CG1	45:SL:325:GLU:HG2	2.18	0.73
45:SN:287:PRO:HG3	45:SN:329:GLN:NE2	2.03	0.73
45:TB:208:TYR:CE1	45:TB:225:LEU:HD11	2.24	0.73
45:TB:355:ASP:O	45:TB:356:ILE:HD13	1.89	0.73
44:TC:269:LEU:HD23	44:TC:379:SER:O	1.87	0.73
44:TE:68:LEU:HD21	44:TE:118:CYS:CB	2.19	0.73
45:TL:105:HIS:CD2	45:TL:150:LEU:HD12	2.23	0.73
44:TM:75:ILE:HD12	44:TM:92:LEU:HB3	1.70	0.73
44:UC:224:TYR:HD1	44:UC:227:LEU:HD12	1.54	0.73
44:UI:362:VAL:HG21	44:UI:369:ALA:HA	1.70	0.73
45:UL:293:MET:HG3	45:UL:367:PHE:HB2	1.70	0.73
44:UM:36:MET:SD	44:UM:38:SER:OG	2.44	0.73
45:UN:100:ASN:ND2	45:UN:401:GLU:OE1	2.21	0.73
44:VA:223:THR:N	44:VA:226:ASN:OD1	2.20	0.73
45:VF:177:ASP:N	45:VF:181:GLU:OE2	2.16	0.73
45:VF:232:ALA:HB1	45:VF:268:ILE:CD1	2.19	0.73
44:VI:148:GLY:O	44:VI:152:LEU:N	2.20	0.73
45:VJ:64:ILE:HG22	45:VJ:66:MET:SD	2.29	0.73
44:WG:140:SER:OG	46:WG:501:GTP:O2B	2.06	0.73
44:WG:332:ILE:O	44:WG:336:LYS:HG3	1.89	0.73
1:6H:382:PHE:CZ	44:FK:364:PRO:HD2	2.24	0.73
3:0B:247:ALA:HB2	45:JL:22:GLU:OE2	1.88	0.73
9:1H:257:GLU:CG	44:HE:364:PRO:HB2	2.18	0.73
22:1L:870:ARG:NE	45:CB:359:LYS:HA	2.02	0.73
26:1R:84:VAL:HG21	44:MC:33:ASP:HB2	1.70	0.73
26:2R:407:PHE:HB3	44:DG:58:ALA:CB	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2X:4:VAL:HG22	44:MI:245:ASP:OD2	1.87	0.73
22:3L:42:LYS:HD3	45:BB:320:ARG:HH12	1.52	0.73
37:5D:44:SER:HB3	45:KN:393:ALA:N	1.98	0.73
38:5F:123:ARG:HD3	44:OE:370:LYS:NZ	2.04	0.73
42:8L:37:UNK:O	42:8L:41:UNK:N	2.22	0.73
43:8P:311:UNK:O	43:8P:315:UNK:N	2.22	0.73
44:AC:264:ARG:HG2	44:AC:264:ARG:HH11	1.52	0.73
45:AF:239:CYS:SG	45:AF:248:SER:OG	2.46	0.73
45:AH:174:LYS:CD	45:AH:175:VAL:HG13	2.15	0.73
45:AJ:242:PHE:CD1	45:AJ:356:ILE:HG13	2.22	0.73
44:AK:15:GLN:HG3	44:AK:228:ASN:HD21	1.54	0.73
45:BF:113:ILE:HA	45:BF:116:VAL:HG12	1.70	0.73
45:BF:208:TYR:CE1	45:BF:225:LEU:HD11	2.23	0.73
45:BH:150:LEU:HD21	45:BH:154:LYS:HE2	1.71	0.73
45:BJ:67:ASP:OD1	45:BJ:68:LEU:N	2.21	0.73
45:BL:68:LEU:HD23	45:BL:97:ALA:HA	1.71	0.73
44:CG:209:ILE:HG12	44:CG:302:MET:HE3	1.70	0.73
44:CG:258:ASN:HD21	44:CG:352:LYS:NZ	1.86	0.73
45:CJ:19:LYS:HD2	45:CJ:227:HIS:HD2	1.54	0.73
44:CK:288:VAL:HA	44:CK:291:ILE:CG1	2.13	0.73
45:CL:347:ASN:OD1	44:CM:394:LYS:NZ	2.22	0.73
45:CL:350:LYS:HA	45:CL:350:LYS:CE	2.17	0.73
45:CN:267:MET:O	45:CN:368:VAL:HA	1.89	0.73
44:DA:22:GLU:HG3	44:DA:83:TYR:HE2	1.53	0.73
44:DA:145:THR:O	44:DA:149:LEU:N	2.16	0.73
45:DB:52:ASN:HB3	45:DB:60:VAL:CG1	2.18	0.73
45:DF:113:ILE:HD13	45:DF:150:LEU:HD22	1.71	0.73
44:DG:88:HIS:CD2	44:DG:89:PRO:HD2	2.24	0.73
45:DH:262:ARG:CG	45:DH:263:LEU:HD12	2.19	0.73
44:DM:33:ASP:O	44:DM:85:GLN:NE2	2.20	0.73
44:EA:37:PRO:CG	44:EA:40:LYS:HB2	2.16	0.73
45:ED:286:VAL:CG1	45:ED:325:GLU:HG2	2.18	0.73
45:EF:33:THR:O	45:EF:58:ARG:NH2	2.22	0.73
45:EF:170:VAL:CG2	45:EF:171:PRO:HD2	2.18	0.73
45:EF:240:LEU:O	45:EF:240:LEU:HD23	1.89	0.73
45:EF:378:PHE:HA	45:EF:381:VAL:CG1	2.18	0.73
44:EG:131:GLY:O	44:EG:133:GLN:NE2	2.19	0.73
45:EJ:67:ASP:OD1	45:EJ:68:LEU:N	2.21	0.73
45:EL:65:LEU:HD22	45:EL:90:PHE:HE1	1.54	0.73
45:EL:133:PHE:H	45:EL:164:MET:HE2	1.53	0.73
45:EL:348:ASN:HA	44:EM:181:VAL:HG12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:49:PHE:HB2	44:FA:53:PHE:CD2	2.23	0.73
44:FC:222:PRO:HD2	45:FD:324:LYS:HD2	1.70	0.73
45:FD:383:GLU:O	45:FD:386:THR:HG22	1.88	0.73
44:FI:202:VAL:HA	44:FI:268:MET:O	1.88	0.73
44:FK:348:PRO:HB2	45:FN:384:GLN:OE1	1.89	0.73
45:FN:49:VAL:HG11	45:FN:241:ARG:CG	2.18	0.73
45:FN:61:PRO:HG2	45:FN:84:LEU:HB3	1.69	0.73
45:FN:64:ILE:HG12	45:FN:119:VAL:CG2	2.17	0.73
45:FN:360:GLY:O	45:FN:361:LEU:HD23	1.88	0.73
44:GC:286:LEU:O	44:GC:373:ARG:NH2	2.16	0.73
45:GH:302:ALA:HB3	45:GH:377:MET:CE	2.19	0.73
44:GK:318:MET:O	44:GK:375:VAL:HA	1.89	0.73
45:GN:32:PRO:HG3	45:GN:81:PHE:CZ	2.24	0.73
44:HC:245:ASP:OD1	44:HC:246:GLY:N	2.22	0.73
45:HD:40:SER:OG	45:HD:43:GLN:HG3	1.89	0.73
45:HH:116:VAL:O	45:HH:119:VAL:HG12	1.87	0.73
45:HH:134:GLN:HA	45:HH:165:GLU:HB2	1.71	0.73
45:HH:235:GLY:HA2	45:HH:318:ARG:HH21	1.54	0.73
44:HI:194:LEU:HG	44:HI:198:THR:OG1	1.88	0.73
45:HN:6:HIS:NE2	45:HN:8:GLN:HB3	2.03	0.73
45:IB:331:LEU:HG	45:IB:335:ASN:ND2	2.04	0.73
45:IH:134:GLN:HG2	45:IH:165:GLU:HB2	1.70	0.73
44:JE:145:THR:HG22	46:JE:501:GTP:PG	2.28	0.73
44:JG:271:SER:HA	44:JG:302:MET:HG2	1.71	0.73
44:JI:384:ILE:O	44:JI:387:VAL:HG22	1.88	0.73
45:JL:119:VAL:HA	45:JL:122:LYS:HE3	1.70	0.73
44:KA:113:GLU:OE1	44:KA:113:GLU:N	2.21	0.73
44:KC:174:SER:HB3	44:KC:177:VAL:O	1.89	0.73
44:KE:121:ARG:NH2	44:KE:124:LYS:HD3	2.04	0.73
44:KK:88:HIS:ND1	44:KK:90:GLU:HG2	2.02	0.73
45:LD:15:GLN:O	45:LD:18:ALA:N	2.22	0.73
44:LG:91:GLN:HA	44:LG:121:ARG:NH1	2.03	0.73
45:LJ:100:ASN:OD1	45:LJ:103:LYS:N	2.21	0.73
45:LL:21:TRP:HA	45:LL:24:ILE:HG22	1.69	0.73
45:MB:267:MET:CE	45:MB:305:PRO:HB3	2.18	0.73
44:ME:64:ARG:NH1	44:ME:129:CYS:SG	2.61	0.73
45:MF:135:ILE:O	45:MF:166:THR:HA	1.89	0.73
44:MG:264:ARG:HH22	44:MG:428:LEU:HB2	1.54	0.73
44:MI:69:ASP:OD1	44:MI:71:GLU:N	2.18	0.73
45:MJ:85:PHE:O	45:MJ:87:PRO:HD3	1.89	0.73
45:MJ:370:ASN:OD1	45:MJ:422:TYR:OH	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:70:LEU:HB3	44:NC:97:GLU:O	1.87	0.73
44:NE:13:GLY:HA2	44:NE:16:VAL:HG22	1.69	0.73
45:NF:237:THR:HG22	45:NF:250:LEU:HD21	1.69	0.73
44:NI:434:GLU:O	44:NI:437:ILE:HG22	1.89	0.73
44:OA:34:GLY:O	44:OA:60:LYS:HA	1.87	0.73
45:OB:8:GLN:HE21	45:OB:65:LEU:HG	1.54	0.73
45:OB:330:MET:SD	45:OB:349:ILE:HG21	2.28	0.73
44:OC:172:TYR:CE2	44:OC:203:MET:HG2	2.24	0.73
44:OC:288:VAL:CG2	44:OC:373:ARG:HD3	2.17	0.73
45:OD:105:HIS:CD2	45:OD:150:LEU:HB2	2.22	0.73
44:OE:271:SER:OG	44:OE:300:ASN:O	2.03	0.73
45:OF:47:ILE:HG12	45:OF:59:TYR:CE2	2.23	0.73
44:OG:68:LEU:CD2	44:OG:93:ILE:HB	2.18	0.73
44:OI:264:ARG:O	44:OI:266:HIS:ND1	2.22	0.73
45:OL:323:THR:O	45:OL:326:VAL:N	2.21	0.73
45:PD:205:GLU:OE1	45:PD:205:GLU:N	2.18	0.73
44:PG:181:VAL:HG13	45:PH:350:LYS:NZ	2.03	0.73
45:PH:235:GLY:HA2	45:PH:238:CYS:HB3	1.69	0.73
45:PL:6:HIS:HE1	45:PL:136:THR:HG23	1.54	0.73
44:PM:271:SER:HB2	44:PM:377:MET:SD	2.28	0.73
45:PN:1:MET:O	45:PN:2:ARG:HG2	1.89	0.73
45:QB:289:LEU:HB3	45:QB:365:VAL:HG21	1.70	0.73
45:QD:42:LEU:HG	45:QD:45:GLU:OE2	1.89	0.73
45:QF:291:GLN:NE2	45:QF:292:GLN:HG2	2.04	0.73
44:QG:215:ARG:NH2	44:QG:300:ASN:OD1	2.21	0.73
45:QJ:60:VAL:HG11	45:RJ:281:TYR:HB3	1.69	0.73
45:RB:97:ALA:HA	45:RB:103:LYS:HG2	1.71	0.73
45:RD:166:THR:OG1	45:RD:199:CYS:HA	1.89	0.73
44:RI:175:PRO:HG2	44:RI:304:LYS:HG2	1.71	0.73
44:RM:34:GLY:O	44:RM:60:LYS:HA	1.88	0.73
45:SB:375:GLN:O	45:SB:378:PHE:N	2.21	0.73
44:SG:108:TYR:HA	44:SG:112:LYS:HE2	1.71	0.73
44:SI:99:ALA:HB2	44:SI:110:ILE:HD11	1.69	0.73
45:SJ:148:GLY:O	45:SJ:152:ILE:HG12	1.87	0.73
44:SK:141:VAL:HG12	44:SK:171:ILE:O	1.89	0.73
45:SN:296:ALA:HA	45:SN:305:PRO:CG	2.18	0.73
45:TB:255:VAL:HA	44:TC:407:TRP:CZ3	2.24	0.73
44:TE:251:ASP:O	44:TE:254:GLU:N	2.22	0.73
44:TE:324:VAL:HG12	44:TE:326:LYS:HG3	1.70	0.73
44:TK:103:PHE:HB2	44:TK:186:ASN:HB3	1.71	0.73
45:TL:102:ALA:HB2	45:TL:398:TYR:CD1	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:12:CYS:O	45:TN:16:ILE:N	2.22	0.73
44:UA:11:GLN:NE2	44:UA:74:VAL:HG11	2.04	0.73
44:UE:406:HIS:O	44:UE:409:VAL:HG12	1.89	0.73
45:UF:105:HIS:CE1	45:UF:150:LEU:HD12	2.24	0.73
45:UH:344:TRP:CE3	45:UH:345:ILE:HB	2.24	0.73
45:UL:259:PRO:HA	44:UM:404:PHE:CZ	2.23	0.73
45:UN:372:THR:HA	45:UN:422:TYR:HE1	1.52	0.73
44:VA:88:HIS:NE2	44:WA:284:GLU:OE2	2.22	0.73
45:VB:22:GLU:HG2	45:VB:81:PHE:CG	2.24	0.73
44:WC:211:ASP:HB3	44:WC:215:ARG:HH12	1.52	0.73
44:WC:242:LEU:HD22	44:WC:252:ILE:HD12	1.70	0.73
44:WC:291:ILE:CD1	44:WC:373:ARG:HB3	2.18	0.73
45:WF:207:LEU:O	45:WF:211:CYS:N	2.18	0.73
44:WM:212:ILE:HD13	44:WM:215:ARG:NH1	2.03	0.73
1:6H:283:LEU:HD12	44:FE:357:TYR:HE2	1.51	0.73
8:0G:45:MET:HE3	44:JK:77:GLU:HB2	1.70	0.73
4:1C:81:TYR:HA	45:EL:356:ILE:HD12	1.70	0.73
20:1J:145:ILE:CD1	44:IE:324:VAL:HG23	2.18	0.73
32:3I:220:LYS:HD3	45:GL:332:ASN:OD1	1.89	0.73
32:3I:263:PHE:H	45:GJ:337:ASN:HD21	1.35	0.73
37:5D:37:ASP:HA	44:KK:263:PRO:HD2	1.69	0.73
37:5D:55:ALA:H	44:KK:345:ASP:HB3	1.52	0.73
36:5S:98:TYR:HE2	36:5S:134:LYS:HE3	1.53	0.73
35:6R:300:PHE:HB3	45:CN:77:ARG:HH12	1.50	0.73
35:7R:249:LEU:HB2	44:CA:370:LYS:HZ1	1.52	0.73
43:8P:156:UNK:O	43:8P:160:UNK:N	2.20	0.73
43:8P:337:UNK:O	43:8P:341:UNK:N	2.21	0.73
44:AK:209:ILE:HD13	44:AK:302:MET:SD	2.29	0.73
44:AK:257:THR:HA	45:AN:397:TRP:CZ3	2.23	0.73
44:AM:70:LEU:HB3	44:AM:97:GLU:O	1.89	0.73
45:BD:101:TRP:HE3	45:BD:187:LEU:HD13	1.54	0.73
44:BK:407:TRP:CZ3	45:BL:255:VAL:HA	2.24	0.73
45:CB:66:MET:O	45:CB:67:ASP:HB2	1.88	0.73
44:CC:23:LEU:HD21	44:CC:236:SER:HB2	1.71	0.73
45:CJ:45:GLU:C	45:CJ:46:ARG:HD2	2.08	0.73
45:CJ:178:THR:N	45:CJ:181:GLU:OE2	2.21	0.73
44:CK:70:LEU:HD13	44:CK:110:ILE:HD11	1.70	0.73
45:CL:255:VAL:HA	44:CM:407:TRP:CZ3	2.24	0.73
45:DD:52:ASN:OD1	45:DD:62:ARG:NH2	2.22	0.73
44:DE:79:ARG:NH1	44:DE:80:THR:HG23	2.04	0.73
45:DN:312:THR:O	45:DN:370:ASN:N	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:5:VAL:HG22	45:EB:133:PHE:CD1	2.23	0.73
44:EI:4:VAL:HG23	44:EI:134:GLY:O	1.89	0.73
44:EI:188:ILE:HG13	44:EI:395:PHE:HB2	1.69	0.73
44:EK:176:GLN:NE2	44:EK:207:GLU:OE2	2.20	0.73
45:EL:310:TYR:N	45:EL:340:TYR:O	2.19	0.73
45:EL:313:ALA:O	45:EL:350:LYS:N	2.21	0.73
44:EM:7:ILE:HD12	44:EM:66:VAL:HG21	1.69	0.73
44:FA:269:LEU:O	44:FA:379:SER:OG	2.01	0.73
44:FC:181:VAL:HG12	45:FD:256:ASN:OD1	1.89	0.73
45:FD:21:TRP:CH2	45:FD:63:ALA:HB2	2.24	0.73
45:FH:113:ILE:HA	45:FH:116:VAL:HG12	1.71	0.73
45:FH:135:ILE:O	45:FH:166:THR:HA	1.89	0.73
44:FI:324:VAL:HG13	44:FI:325:PRO:HD2	1.70	0.73
44:GA:2:ARG:O	44:GA:51:THR:HA	1.88	0.73
45:GB:166:THR:O	45:GB:199:CYS:HA	1.88	0.73
45:GD:61:PRO:CG	45:GD:84:LEU:HB3	2.19	0.73
45:GD:102:ALA:HB1	45:GD:401:GLU:HB2	1.70	0.73
44:GI:407:TRP:CZ3	45:GJ:255:VAL:HA	2.24	0.73
44:GM:62:VAL:HG13	44:GM:88:HIS:HB2	1.71	0.73
44:IE:298:PRO:HG3	44:IE:308:ARG:HH12	1.53	0.73
44:IM:11:GLN:O	44:IM:15:GLN:N	2.20	0.73
45:JD:8:GLN:OE1	45:JD:17:GLY:HA3	1.88	0.73
45:JD:203:ASP:OD2	45:JD:302:ALA:N	2.22	0.73
44:JE:32:PRO:HB3	44:JE:83:TYR:HE1	1.53	0.73
45:JH:66:MET:HG3	45:JH:116:VAL:HG21	1.71	0.73
45:JH:143:THR:HG22	48:JH:501:GDP:O3B	1.88	0.73
45:KD:423:GLN:HA	45:KD:426:GLN:HE21	1.52	0.73
45:KH:45:GLU:HG3	45:KH:46:ARG:HD2	1.69	0.73
45:KH:86:ARG:HD2	45:KH:89:ASN:OD1	1.89	0.73
44:KI:414:GLU:HG3	44:KI:416:GLY:H	1.51	0.73
45:KJ:326:VAL:O	45:KJ:330:MET:HG2	1.89	0.73
44:LA:73:THR:HG21	45:LB:247:ASN:HD21	1.54	0.73
44:LA:205:ASP:OD2	44:LA:304:LYS:N	2.16	0.73
45:LB:51:TYR:CE1	45:LB:61:PRO:HG3	2.24	0.73
45:LF:19:LYS:O	45:LF:23:VAL:HG23	1.88	0.73
44:LK:124:LYS:CE	44:MK:297:GLU:OE2	2.37	0.73
44:LM:11:GLN:HA	44:LM:14:ILE:HD12	1.70	0.73
44:MA:340:THR:HG23	44:MA:341:ILE:HG13	1.70	0.73
44:MC:216:ASN:HB3	44:MC:275:ILE:O	1.87	0.73
44:ME:141:VAL:HG11	44:ME:172:TYR:CD1	2.24	0.73
44:MI:200:VAL:CG2	44:MI:256:GLN:HB3	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:362:LYS:HE2	45:MJ:363:MET:HE3	1.69	0.73
44:MK:116:ASP:OD1	44:MK:117:LEU:N	2.22	0.73
44:MK:254:GLU:CG	45:MN:98:GLY:HA2	2.19	0.73
44:NE:259:LEU:HD21	44:NE:316:SER:HB2	1.71	0.73
44:NG:71:GLU:CG	44:NG:98:ASP:HB2	2.18	0.73
44:NG:398:MET:CE	45:NH:345:ILE:HD12	2.18	0.73
45:NH:117:LEU:HD21	45:NH:154:LYS:HD2	1.71	0.73
45:NJ:117:LEU:HB3	45:NJ:121:ARG:HH12	1.54	0.73
45:OD:110:ALA:HA	45:OD:113:ILE:CG2	2.18	0.73
45:OF:73:MET:HE1	45:OF:92:PHE:HB3	1.71	0.73
45:OJ:177:ASP:N	45:OJ:181:GLU:OE2	2.21	0.73
45:OJ:258:ILE:HG13	45:OJ:266:PHE:HZ	1.54	0.73
45:PF:186:THR:HG23	45:PF:415:MET:HE1	1.69	0.73
44:PG:215:ARG:NH2	44:PG:300:ASN:OD1	2.21	0.73
45:PJ:207:LEU:HB3	45:PJ:225:LEU:HD22	1.68	0.73
44:PK:205:ASP:OD2	44:PK:304:LYS:N	2.15	0.73
44:PK:265:ILE:HD11	44:PK:432:TYR:HA	1.69	0.73
45:PL:309:ARG:NH1	45:PL:342:VAL:HA	2.04	0.73
45:PN:272:PRO:O	45:PN:273:LEU:HD23	1.88	0.73
44:QA:22:GLU:HG3	44:QA:83:TYR:HE2	1.52	0.73
45:QD:130:LEU:O	45:QD:162:ARG:NE	2.20	0.73
44:QE:276:ILE:HD11	44:QE:280:LYS:O	1.89	0.73
45:QF:288:GLU:O	45:QF:291:GLN:HG3	1.89	0.73
44:QG:88:HIS:HB3	44:QG:91:GLN:HG2	1.70	0.73
45:QH:8:GLN:NE2	45:QH:65:LEU:HG	2.04	0.73
45:QH:133:PHE:HB2	45:QH:164:MET:CE	2.18	0.73
45:QH:141:GLY:HA2	48:QH:501:GDP:O1A	1.89	0.73
45:QH:309:ARG:HG3	45:QH:426:GLN:HE21	1.53	0.73
44:QK:349:THR:CG2	45:QL:179:VAL:HA	2.19	0.73
44:RE:79:ARG:HG3	44:RE:92:LEU:HD23	1.71	0.73
45:RH:138:SER:CB	45:RH:169:VAL:HB	2.19	0.73
44:SM:206:ASN:O	44:SM:210:TYR:N	2.21	0.73
44:TA:5:ILE:HG12	44:TA:64:ARG:HB3	1.69	0.73
44:TA:242:LEU:HD11	44:TA:252:ILE:HD11	1.71	0.73
45:TH:139:LEU:HG	45:TH:188:SER:HB2	1.69	0.73
44:TI:3:GLU:HG2	44:TI:129:CYS:CB	2.18	0.73
45:UF:3:GLU:HB3	45:UF:49:VAL:HA	1.70	0.73
45:UL:54:ALA:HA	45:VL:283:ALA:HB2	1.71	0.73
44:UM:212:ILE:HD13	44:UM:215:ARG:HH22	1.54	0.73
44:UM:290:GLU:O	44:UM:294:SER:N	2.19	0.73
45:VD:374:ILE:HA	45:VD:377:MET:CE	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:311:LEU:O	45:VF:342:VAL:HG21	1.89	0.73
45:VJ:377:MET:O	45:VJ:380:ARG:HG2	1.89	0.73
44:VK:10:GLY:O	44:VK:13:GLY:N	2.22	0.73
44:VK:17:GLY:HA2	44:VK:20:CYS:SG	2.28	0.73
44:VK:262:TYR:HB3	44:VK:263:PRO:HD2	1.71	0.73
45:VL:11:GLN:N	48:VL:501:GDP:O1B	2.20	0.73
44:WA:115:VAL:HG21	44:WA:152:LEU:CD2	2.19	0.73
44:WG:363:VAL:HG13	44:WG:364:PRO:HD2	1.71	0.73
44:WI:145:THR:HG22	46:WI:501:GTP:O3B	1.88	0.73
44:WI:172:TYR:HB2	44:WI:203:MET:SD	2.28	0.73
44:WK:409:VAL:HA	44:WK:413:MET:HB2	1.70	0.73
44:WM:10:GLY:HA2	44:WM:145:THR:HG23	1.71	0.73
11:OQ:19:SER:N	45:WB:128:ASP:OD1	2.21	0.73
12:OS:16:SER:HB3	45:WB:92:PHE:CE2	2.23	0.73
17:1B:1:MET:HG3	45:LD:359:LYS:HB2	1.70	0.73
11:1Q:115:LYS:NZ	44:AC:264:ARG:HH21	1.87	0.73
24:2O:184:GLU:CB	45:VL:276:ARG:HD2	2.19	0.73
37:5D:75:TYR:CZ	45:NN:320:ARG:HG2	2.24	0.73
35:6R:514:LYS:O	35:6R:518:SER:HB3	1.89	0.73
35:7R:353:ASP:OD1	35:7R:356:THR:HG23	1.89	0.73
45:AJ:172:SER:HG	45:AJ:174:LYS:HZ3	1.35	0.73
44:AM:287:SER:HA	44:AM:373:ARG:HH21	1.54	0.73
44:BE:141:VAL:HG23	44:BE:190:SER:HB3	1.71	0.73
45:BJ:238:CYS:SG	45:BJ:318:ARG:HD3	2.28	0.73
45:BL:257:LEU:O	45:BL:259:PRO:HD3	1.89	0.73
44:CA:389:SER:OG	44:CA:429:GLU:OE2	2.03	0.73
45:CF:22:GLU:HG2	45:CF:81:PHE:CG	2.24	0.73
45:CN:73:MET:O	45:CN:76:VAL:HG12	1.88	0.73
44:DC:276:ILE:HD13	44:DC:281:ALA:HA	1.68	0.73
44:DE:256:GLN:O	44:DE:260:VAL:HG12	1.89	0.73
44:DE:269:LEU:HD22	44:DE:384:ILE:HD11	1.71	0.73
45:DF:22:GLU:HG2	45:DF:81:PHE:HD2	1.54	0.73
45:DH:278:SER:HA	45:DH:281:TYR:CD2	2.24	0.73
45:DJ:42:LEU:HA	45:DJ:45:GLU:HG3	1.69	0.73
44:DK:103:PHE:HB2	44:DK:186:ASN:HB3	1.71	0.73
45:EB:175:VAL:CG2	45:EB:205:GLU:HB2	2.18	0.73
44:EC:9:VAL:HG21	44:EC:149:LEU:CB	2.19	0.73
44:EI:204:LEU:HD23	44:EI:302:MET:SD	2.29	0.73
45:EJ:249:ASP:OD1	45:EJ:252:LYS:N	2.13	0.73
44:EK:250:VAL:HG21	44:EK:318:MET:SD	2.29	0.73
45:EL:87:PRO:HA	45:EL:90:PHE:CD2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:265:ILE:CD1	44:EM:435:VAL:HG21	2.19	0.73
44:FA:185:TYR:HE2	44:FA:404:PHE:HB2	1.53	0.73
44:FC:230:LEU:CD1	44:FC:275:ILE:HD13	2.19	0.73
45:FD:72:THR:HG23	45:FD:73:MET:SD	2.29	0.73
44:FM:68:LEU:HD21	44:FM:118:CYS:HB2	1.71	0.73
45:GD:7:ILE:HB	45:GD:135:ILE:CD1	2.19	0.73
44:GE:20:CYS:HA	44:GE:232:ALA:HB1	1.69	0.73
44:GE:88:HIS:ND1	44:GE:89:PRO:HD2	2.04	0.73
44:GE:320:ARG:HH12	44:GE:360:PRO:CB	2.01	0.73
44:GI:311:LYS:NZ	44:GI:342:GLN:HB2	2.04	0.73
44:GK:276:ILE:HG12	44:GK:281:ALA:HA	1.69	0.73
45:HD:317:PHE:HA	45:HD:365:VAL:HG12	1.69	0.73
45:HH:198:GLU:HG2	45:HH:266:PHE:HE2	1.54	0.73
45:IL:342:VAL:HG13	45:IL:345:ILE:HG22	1.70	0.73
44:IM:171:ILE:HG23	44:IM:204:LEU:O	1.88	0.73
45:JB:4:ILE:CG2	45:JB:131:GLN:HB3	2.19	0.73
45:JD:105:HIS:CD2	45:JD:150:LEU:HB2	2.24	0.73
45:JD:178:THR:HG22	45:JD:180:VAL:H	1.50	0.73
44:JG:217:LEU:HD12	44:JG:367:ASP:HB3	1.69	0.73
45:JN:173:PRO:HG2	45:JN:380:ARG:HB3	1.70	0.73
45:KD:210:ILE:O	45:KD:214:THR:OG1	2.04	0.73
45:KH:3:GLU:HB2	45:KH:62:ARG:HH12	1.53	0.73
45:KH:156:ARG:HD2	45:KH:164:MET:CE	2.16	0.73
44:KK:88:HIS:ND1	44:KK:89:PRO:HD2	2.04	0.73
44:LA:9:VAL:HG21	44:LA:149:LEU:HB2	1.71	0.73
45:LD:97:ALA:CB	45:LD:143:THR:HB	2.19	0.73
45:LD:244:GLY:HA2	45:LD:355:ASP:OD2	1.89	0.73
45:MF:139:LEU:HA	45:MF:145:SER:HB3	1.70	0.73
45:MH:170:VAL:HG22	45:MH:171:PRO:HD2	1.71	0.73
45:MJ:253:LEU:HD21	45:MJ:316:LEU:HD11	1.71	0.73
45:ML:144:GLY:O	45:ML:148:GLY:N	2.21	0.73
44:MM:174:SER:CB	44:MM:207:GLU:HB2	2.19	0.73
44:NA:88:HIS:CE1	44:NA:90:GLU:HB2	2.22	0.73
44:NG:203:MET:HG3	44:NG:384:ILE:HD11	1.69	0.73
44:NG:326:LYS:NZ	45:NJ:218:THR:O	2.22	0.73
45:NH:7:ILE:O	45:NH:135:ILE:HG23	1.89	0.73
45:NJ:318:ARG:HB3	45:NJ:358:PRO:CD	2.18	0.73
45:NL:143:THR:OG1	48:NL:501:GDP:O1B	2.06	0.73
45:NN:234:SER:HB2	45:NN:241:ARG:HH22	1.52	0.73
45:OB:396:HIS:O	45:OB:400:GLY:N	2.20	0.73
44:OI:201:ALA:HB3	44:OI:267:PHE:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:417:ASP:O	45:OL:420:SER:N	2.22	0.73
44:OM:407:TRP:CZ3	45:ON:255:VAL:HA	2.20	0.73
45:ON:372:THR:HA	45:ON:422:TYR:CE2	2.24	0.73
44:PA:320:ARG:CB	44:PA:356:ASN:HB3	2.19	0.73
45:PD:58:ARG:NH1	45:PD:60:VAL:HB	2.03	0.73
44:PE:9:VAL:HA	44:PE:68:LEU:O	1.88	0.73
45:PF:312:THR:HA	45:PF:348:ASN:CB	2.15	0.73
44:PI:246:GLY:HA2	44:PI:357:TYR:CD2	2.23	0.73
44:PI:258:ASN:O	45:PL:179:VAL:HG21	1.89	0.73
45:PJ:36:TYR:CD1	45:PJ:44:LEU:HD21	2.24	0.73
45:PL:99:ASN:OD1	45:PL:142:GLY:N	2.22	0.73
44:PM:100:ALA:O	45:PN:255:VAL:HG21	1.88	0.73
44:QC:118:CYS:O	44:QC:122:ILE:HG12	1.88	0.73
44:QG:145:THR:HG22	46:QG:501:GTP:O3B	1.89	0.73
45:QH:179:VAL:O	45:QH:182:PRO:HD2	1.89	0.73
44:QK:145:THR:HG22	46:QK:501:GTP:O3B	1.89	0.73
45:QN:64:ILE:HG12	45:QN:120:VAL:HG22	1.70	0.73
44:RA:320:ARG:HG3	44:RA:374:ALA:HB3	1.71	0.73
45:RD:135:ILE:HB	45:RD:166:THR:HG22	1.71	0.73
44:RG:54:SER:HB3	44:RG:64:ARG:NH2	2.04	0.73
44:SA:272:TYR:HD1	44:SA:376:CYS:HB2	1.54	0.73
44:SC:188:ILE:HD12	44:SC:425:LEU:CD1	2.18	0.73
45:SF:163:ILE:HG21	45:SF:251:ARG:HG2	1.71	0.73
45:SF:193:VAL:HA	45:SF:264:HIS:NE2	2.04	0.73
44:SG:326:LYS:HE2	45:SH:219:THR:HG22	1.70	0.73
44:SI:154:LEU:HD23	44:SI:157:LEU:HD12	1.70	0.73
44:SI:284:GLU:HG3	44:SI:286:LEU:HD22	1.69	0.73
45:SL:26:ASP:HB3	45:SL:359:LYS:HE2	1.71	0.73
45:SL:294:PHE:HE2	45:SL:333:VAL:HG11	1.54	0.73
45:SN:69:GLU:HA	45:SN:93:GLY:O	1.88	0.73
45:TB:255:VAL:HA	44:TC:407:TRP:CH2	2.24	0.73
44:TC:186:ASN:OD1	44:TC:187:SER:N	2.22	0.73
44:TG:387:VAL:HA	44:TG:390:ARG:CG	2.18	0.73
44:TM:268:MET:CE	44:TM:380:ASN:HA	2.19	0.73
45:UB:295:ASP:HB3	45:UB:298:ASN:HB2	1.71	0.73
44:UC:119:LEU:HA	44:UC:122:ILE:HB	1.70	0.73
44:UI:209:ILE:CG2	44:UI:227:LEU:HD22	2.18	0.73
45:UJ:337:ASN:HB3	45:UJ:340:TYR:HD2	1.52	0.73
45:UL:163:ILE:CD1	45:UL:250:LEU:HD12	2.18	0.73
45:UL:185:ALA:O	45:UL:188:SER:OG	2.04	0.73
45:UL:383:GLU:O	45:UL:386:THR:OG1	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UN:67:ASP:HB3	45:UN:73:MET:SD	2.29	0.73
44:VA:205:ASP:OD1	44:VA:303:ALA:HA	1.88	0.73
44:VE:384:ILE:HD11	44:VE:432:TYR:CZ	2.23	0.73
44:VI:134:GLY:CA	44:VI:166:LYS:HZ3	2.01	0.73
45:VJ:259:PRO:CG	45:VJ:311:LEU:HD21	2.19	0.73
44:VK:326:LYS:HG2	45:VN:220:PRO:HD2	1.70	0.73
44:VM:265:ILE:HD11	44:VM:435:VAL:CG2	2.19	0.73
45:WB:101:TRP:HB3	45:WB:398:TYR:HE1	1.54	0.73
45:WD:173:PRO:HG2	45:WD:380:ARG:HD3	1.69	0.73
44:WE:185:TYR:OH	44:WE:398:MET:HB3	1.89	0.73
44:WG:407:TRP:HZ3	45:WH:255:VAL:HA	1.53	0.73
44:WK:372:MET:O	44:WK:373:ARG:HD2	1.89	0.73
3:0B:290:THR:HG22	45:KL:284:LEU:HD21	1.69	0.72
10:1N:10:TYR:OH	45:IJ:52:ASN:HA	1.88	0.72
24:1O:156:ARG:NH1	44:UE:370:LYS:HG2	2.03	0.72
11:1Q:55:SER:OG	44:AC:422:ARG:NH2	2.22	0.72
5:2D:57:THR:HA	44:EK:219:ILE:HG12	1.71	0.72
24:2O:177:LYS:HD3	45:VL:362:LYS:NZ	2.04	0.72
38:5E:138:LEU:HD22	45:OD:227:HIS:CE1	2.22	0.72
38:5G:203:PHE:HE1	44:LK:423:GLU:OE2	1.70	0.72
41:6G:89:PHE:HB2	44:VI:218:ASP:OD2	1.89	0.72
41:6G:169:GLN:HA	41:6G:172:LEU:CD2	2.19	0.72
35:7R:175:GLU:OE2	45:AD:33:THR:N	2.21	0.72
35:7R:397:SER:OG	45:EB:276:ARG:NE	2.21	0.72
45:AB:286:VAL:HG12	45:AB:329:GLN:OE1	1.89	0.72
45:AJ:7:ILE:HB	45:AJ:135:ILE:CD1	2.19	0.72
45:AL:257:LEU:O	45:AL:259:PRO:HD3	1.88	0.72
44:AM:145:THR:HG22	46:AM:501:GTP:O3B	1.89	0.72
45:BJ:144:GLY:N	48:BJ:502:GDP:O1B	2.20	0.72
45:BJ:173:PRO:HD2	45:BJ:380:ARG:NH2	2.04	0.72
44:CA:11:GLN:HG3	44:CA:74:VAL:CG1	2.18	0.72
45:CB:227:HIS:HA	45:CB:230:SER:HB2	1.71	0.72
44:CE:384:ILE:O	44:CE:387:VAL:HG22	1.89	0.72
45:CF:173:PRO:HG3	45:CF:380:ARG:HD3	1.71	0.72
44:CI:4:VAL:HG21	44:CI:136:LEU:HD13	1.71	0.72
44:CI:352:LYS:HD2	45:CJ:177:ASP:O	1.89	0.72
45:CJ:284:LEU:HB2	45:CJ:362:LYS:CE	2.19	0.72
44:DA:290:GLU:O	44:DA:294:SER:N	2.19	0.72
44:DI:64:ARG:NH2	44:DI:129:CYS:SG	2.61	0.72
44:DI:153:LEU:O	44:DI:157:LEU:N	2.19	0.72
44:DK:205:ASP:OD2	44:DK:304:LYS:N	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:315:ALA:N	45:DL:350:LYS:O	2.18	0.72
45:DN:4:ILE:CG2	45:DN:131:GLN:HB3	2.19	0.72
45:DN:60:VAL:HG23	45:DN:84:LEU:O	1.88	0.72
44:EA:36:MET:CG	44:EA:37:PRO:CD	2.65	0.72
44:EA:188:ILE:HD12	44:EA:425:LEU:HD11	1.71	0.72
45:EB:168:SER:O	45:EB:202:ILE:N	2.21	0.72
45:EF:113:ILE:HD13	45:EF:150:LEU:CD2	2.19	0.72
44:EG:269:LEU:HD23	44:EG:379:SER:O	1.89	0.72
45:EH:49:VAL:HG21	45:EH:241:ARG:CG	2.17	0.72
44:EM:36:MET:HB2	44:EM:37:PRO:CD	2.18	0.72
45:FF:167:PHE:HE1	45:FF:233:MET:HG2	1.53	0.72
45:FF:352:SER:O	45:FF:353:ILE:HD13	1.90	0.72
45:GB:273:LEU:H	45:GB:292:GLN:HE22	1.37	0.72
45:GF:314:SER:HB3	45:GF:368:VAL:HG13	1.69	0.72
45:GH:323:THR:O	45:GH:326:VAL:N	2.22	0.72
45:GJ:86:ARG:HD3	45:HJ:281:TYR:CD2	2.23	0.72
44:GK:49:PHE:O	44:GK:53:PHE:N	2.20	0.72
44:GK:51:THR:HG22	44:GK:52:PHE:CD1	2.24	0.72
45:HB:22:GLU:HG2	45:HB:81:PHE:CD1	2.24	0.72
45:HB:269:GLY:HA2	45:HB:300:MET:HE1	1.69	0.72
44:HE:284:GLU:HG3	44:HE:286:LEU:HD22	1.70	0.72
45:HL:320:ARG:NH1	45:HL:320:ARG:HB3	2.04	0.72
44:IA:414:GLU:HB2	44:IA:417:GLU:CG	2.18	0.72
44:IC:1:MET:O	44:IC:131:GLY:HA3	1.89	0.72
44:IG:402:ARG:O	44:IG:405:VAL:HG22	1.89	0.72
45:IH:1:MET:O	45:IH:2:ARG:HG2	1.88	0.72
45:IH:198:GLU:OE2	45:IH:254:ALA:HB2	1.88	0.72
44:IK:1:MET:O	44:IK:131:GLY:HA3	1.89	0.72
44:IM:12:GLY:HA2	44:IM:15:GLN:HB2	1.71	0.72
44:IM:174:SER:HB2	44:IM:177:VAL:HB	1.70	0.72
45:IN:285:THR:HB	45:IN:287:PRO:HD2	1.70	0.72
45:JB:354:CYS:SG	45:JB:355:ASP:N	2.60	0.72
44:JC:209:ILE:HG12	44:JC:302:MET:HE3	1.69	0.72
44:JI:56:THR:HG21	44:JI:60:LYS:CG	2.18	0.72
45:JL:247:ASN:O	45:JL:252:LYS:NZ	2.20	0.72
44:KG:174:SER:HB3	44:KG:177:VAL:O	1.88	0.72
44:KM:320:ARG:HD2	44:KM:360:PRO:HD3	1.71	0.72
44:LA:77:GLU:O	44:LA:81:GLY:N	2.22	0.72
44:LA:102:ASN:ND2	44:LA:411:GLU:HG3	2.04	0.72
45:LB:267:MET:N	45:LB:369:GLY:O	2.20	0.72
45:LF:216:LYS:O	45:LF:216:LYS:HD3	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LG:174:SER:HB2	44:LG:177:VAL:O	1.87	0.72
44:MA:145:THR:HG22	46:MA:501:GTP:PG	2.28	0.72
44:MI:96:LYS:HA	45:MJ:1:MET:HE2	1.71	0.72
45:MJ:152:ILE:HD12	45:MJ:164:MET:HE2	1.70	0.72
44:NC:417:GLU:HA	44:NC:420:GLU:OE1	1.89	0.72
44:NE:296:PHE:HD1	44:NE:341:ILE:HD13	1.52	0.72
44:NG:210:TYR:HE1	44:NG:227:LEU:HD11	1.53	0.72
45:NJ:178:THR:O	45:NJ:181:GLU:HG3	1.87	0.72
44:NM:276:ILE:CG2	44:NM:369:ALA:HB3	2.18	0.72
45:OJ:262:ARG:O	45:OJ:264:HIS:ND1	2.21	0.72
45:ON:317:PHE:CD1	45:ON:365:VAL:HG12	2.24	0.72
44:PA:427:ALA:HA	44:PA:430:LYS:NZ	2.04	0.72
45:PB:156:ARG:NH2	45:PB:160:PRO:O	2.12	0.72
45:PD:318:ARG:HD3	45:PD:358:PRO:HD3	1.70	0.72
45:PF:19:LYS:HG2	45:PF:230:SER:HB3	1.69	0.72
44:PI:147:SER:HB2	44:PI:190:SER:HB3	1.71	0.72
45:PJ:398:TYR:O	45:PJ:403:MET:HB2	1.89	0.72
45:PL:135:ILE:N	45:PL:165:GLU:O	2.22	0.72
45:PL:237:THR:HG23	45:PL:241:ARG:HH12	1.53	0.72
44:QC:315:CYS:O	44:QC:351:PHE:HA	1.89	0.72
45:QD:204:ASN:OD1	48:QD:501:GDP:O2'	2.06	0.72
45:QD:255:VAL:HA	44:QE:407:TRP:HZ3	1.54	0.72
45:QF:290:THR:HG21	45:QF:329:GLN:OE1	1.89	0.72
44:QG:239:THR:HG23	44:QG:243:ARG:HH21	1.53	0.72
45:QJ:327:ASP:HA	45:QJ:330:MET:HE2	1.70	0.72
44:RA:329:ASN:HA	44:RA:332:ILE:HD13	1.71	0.72
44:RA:386:GLU:O	44:RA:390:ARG:HG2	1.89	0.72
45:RB:318:ARG:HG2	45:RB:354:CYS:SG	2.30	0.72
44:RC:11:GLN:HG3	44:RC:74:VAL:CG1	2.19	0.72
44:RC:250:VAL:HG13	44:RC:254:GLU:HB2	1.71	0.72
44:RC:286:LEU:O	44:RC:373:ARG:NE	2.19	0.72
45:RD:46:ARG:NH2	44:RE:76:ASP:OD2	2.22	0.72
45:RH:124:ALA:HB1	45:RH:130:LEU:HD22	1.71	0.72
45:RH:256:ASN:HB2	45:RH:350:LYS:HD2	1.71	0.72
44:RI:269:LEU:HD23	44:RI:379:SER:O	1.88	0.72
44:SA:144:GLY:O	44:SA:147:SER:OG	2.02	0.72
44:SA:205:ASP:OD2	44:SA:304:LYS:N	2.16	0.72
45:SJ:139:LEU:HD22	45:SJ:170:VAL:CG1	2.18	0.72
44:SK:11:GLN:HA	44:SK:14:ILE:HD13	1.70	0.72
44:SK:326:LYS:HZ1	45:SL:220:PRO:HD2	1.54	0.72
44:SM:141:VAL:HG11	44:SM:172:TYR:CD1	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:320:ARG:HA	44:SM:356:ASN:HB3	1.71	0.72
45:TB:254:ALA:O	45:TB:258:ILE:HG22	1.88	0.72
45:TD:10:GLY:O	45:TD:14:ASN:N	2.13	0.72
45:TD:385:PHE:HE2	45:TD:412:GLU:HB2	1.54	0.72
44:TE:14:ILE:HD13	44:TE:75:ILE:HD11	1.71	0.72
45:TH:203:ASP:OD2	45:TH:302:ALA:N	2.20	0.72
44:TK:174:SER:HB2	44:TK:177:VAL:O	1.89	0.72
44:TK:383:ALA:O	44:TK:386:GLU:HG2	1.89	0.72
45:TN:178:THR:HB	45:TN:181:GLU:CG	2.19	0.72
44:UA:2:ARG:O	44:UA:51:THR:OG1	2.05	0.72
44:UA:206:ASN:OD1	46:UA:501:GTP:N2	2.21	0.72
45:UJ:260:PHE:HB3	45:UJ:261:PRO:HD2	1.71	0.72
44:VA:229:ARG:CZ	44:VA:363:VAL:HG21	2.18	0.72
44:VC:177:VAL:HG21	44:VC:207:GLU:HG3	1.71	0.72
45:VD:22:GLU:HG2	45:VD:81:PHE:CB	2.18	0.72
45:VF:299:MET:HE1	45:VF:305:PRO:HG3	1.71	0.72
45:VH:2:ARG:NH2	45:VH:240:LEU:O	2.22	0.72
44:VK:310:GLY:HA3	44:VK:383:ALA:HB2	1.71	0.72
45:VL:139:LEU:HG	45:VL:188:SER:HB2	1.70	0.72
45:VN:202:ILE:HD13	45:VN:229:VAL:HG22	1.69	0.72
44:WE:141:VAL:HG11	44:WE:172:TYR:CD1	2.23	0.72
45:WN:47:ILE:HG12	45:WN:51:TYR:HB2	1.70	0.72
3:0B:298:GLU:HB3	45:KL:221:THR:HG21	1.69	0.72
2:1A:39:TYR:CE2	44:ME:78:VAL:HA	2.24	0.72
22:1L:153:LEU:HD12	45:CH:362:LYS:HZ1	1.54	0.72
22:1L:525:LEU:HD21	45:BF:357:PRO:HG3	1.70	0.72
26:1R:300:LYS:NZ	45:CD:75:SER:OG	2.16	0.72
26:2R:92:TRP:CZ3	44:AG:370:LYS:HG2	2.23	0.72
37:5D:42:SER:HA	44:KK:346:TRP:CE2	2.22	0.72
38:5G:211:ASN:OD1	38:5G:216:LYS:NZ	2.21	0.72
39:5K:20:ILE:O	39:5K:23:SER:OG	2.05	0.72
35:5R:425:ARG:HH11	44:EI:40:LYS:HZ2	1.35	0.72
35:7R:350:PHE:HB2	35:7R:371:ILE:O	1.88	0.72
45:AB:36:TYR:CD1	45:AB:44:LEU:HD21	2.23	0.72
45:AJ:16:ILE:HA	45:AJ:226:ASN:OD1	1.89	0.72
44:AM:242:LEU:HD11	44:AM:252:ILE:HG13	1.71	0.72
44:AM:276:ILE:HD12	44:AM:281:ALA:CA	2.19	0.72
45:AN:268:ILE:HG22	45:AN:368:VAL:HG22	1.71	0.72
44:BC:407:TRP:HH2	45:BD:254:ALA:HB1	1.54	0.72
45:BD:132:GLY:HA3	45:BD:163:ILE:CG1	2.19	0.72
44:BI:326:LYS:HD2	45:BL:220:PRO:CD	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:6:HIS:HA	45:CB:134:GLN:NE2	2.04	0.72
45:CD:65:LEU:HD23	45:CD:73:MET:HE1	1.71	0.72
44:CG:26:LEU:CD2	44:CG:363:VAL:HA	2.19	0.72
44:CI:5:ILE:HD12	44:CI:135:PHE:HE1	1.54	0.72
44:CK:89:PRO:HG2	44:DK:280:LYS:HB2	1.70	0.72
44:CM:260:VAL:HG13	44:CM:265:ILE:O	1.90	0.72
44:DA:154:LEU:O	44:DA:158:SER:N	2.19	0.72
44:DI:10:GLY:O	44:DI:14:ILE:N	2.20	0.72
44:DK:268:MET:HG3	44:DK:380:ASN:OD1	1.89	0.72
44:DK:298:PRO:HB3	44:DK:307:PRO:HD2	1.69	0.72
44:DK:311:LYS:H	44:DK:382:THR:HG1	1.37	0.72
45:DL:255:VAL:HA	44:DM:407:TRP:CZ3	2.24	0.72
44:EA:88:HIS:CE1	44:EA:90:GLU:HG2	2.23	0.72
45:EB:146:GLY:O	45:EB:149:THR:HG22	1.89	0.72
44:EC:257:THR:HG21	45:ED:98:GLY:O	1.88	0.72
44:EI:174:SER:HB2	44:EI:177:VAL:O	1.87	0.72
45:EJ:68:LEU:HD23	45:EJ:97:ALA:HA	1.71	0.72
44:EK:288:VAL:HG11	44:EK:327:ASP:HB3	1.69	0.72
44:FA:188:ILE:HG23	44:FA:425:LEU:HD12	1.71	0.72
44:FI:231:ILE:O	44:FI:235:ILE:HD12	1.88	0.72
44:FK:105:ARG:HA	44:FK:109:THR:CB	2.18	0.72
44:FK:291:ILE:O	44:FK:295:ALA:N	2.22	0.72
44:FK:384:ILE:O	44:FK:387:VAL:HG22	1.89	0.72
45:FL:315:ALA:N	45:FL:350:LYS:O	2.22	0.72
44:GA:230:LEU:O	44:GA:234:VAL:HG23	1.89	0.72
45:GD:200:MET:HE3	45:GD:368:VAL:HG13	1.71	0.72
45:GH:383:GLU:O	45:GH:386:THR:HG22	1.89	0.72
44:GM:386:GLU:O	44:GM:390:ARG:HG2	1.90	0.72
44:HC:184:PRO:O	44:HC:188:ILE:HG12	1.89	0.72
45:HF:39:ASP:N	45:HF:43:GLN:OE1	2.23	0.72
45:HJ:257:LEU:O	45:HJ:259:PRO:HD3	1.86	0.72
44:IA:221:ARG:CD	45:IB:322:SER:HB2	2.19	0.72
44:IC:68:LEU:HD21	44:IC:118:CYS:CB	2.18	0.72
44:IE:420:GLU:O	44:IE:423:GLU:HG2	1.89	0.72
44:IG:104:ALA:HB1	44:IG:411:GLU:HB2	1.71	0.72
44:JE:238:LEU:HD11	44:JE:255:PHE:HE2	1.52	0.72
44:JG:296:PHE:HB3	44:JG:341:ILE:CD1	2.18	0.72
44:JK:216:ASN:ND2	44:JK:275:ILE:HB	2.03	0.72
44:KK:224:TYR:CD1	45:KL:323:THR:HG21	2.23	0.72
45:KL:101:TRP:HD1	45:KL:146:GLY:HA2	1.54	0.72
45:KL:236:VAL:HG13	45:KL:237:THR:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:222:PRO:HB2	44:KM:226:ASN:HD21	1.53	0.72
44:LE:174:SER:OG	44:LE:206:ASN:OD1	2.05	0.72
44:LI:434:GLU:O	44:LI:437:ILE:HG12	1.88	0.72
44:LM:271:SER:HB2	44:LM:301:MET:SD	2.29	0.72
45:MB:103:LYS:HA	45:MB:107:THR:CG2	2.18	0.72
45:MB:113:ILE:HA	45:MB:116:VAL:HG12	1.70	0.72
45:MB:184:ASN:O	45:MB:188:SER:N	2.22	0.72
45:MB:242:PHE:CD2	45:MB:356:ILE:HB	2.24	0.72
44:MG:408:TYR:HB3	44:MG:413:MET:CE	2.19	0.72
44:MK:332:ILE:O	44:MK:335:ILE:HG22	1.88	0.72
44:MM:195:LEU:O	44:MM:266:HIS:NE2	2.18	0.72
45:MN:293:MET:CE	45:MN:365:VAL:HG11	2.19	0.72
45:NB:343:GLU:OE2	45:NB:429:THR:HA	1.88	0.72
44:NC:31:GLN:OE1	44:NC:32:PRO:HD2	1.88	0.72
44:NE:28:HIS:HE1	44:NE:48:ALA:HB3	1.52	0.72
45:NH:200:MET:SD	45:NH:268:ILE:HD13	2.29	0.72
44:NI:287:SER:N	44:NI:290:GLU:OE2	2.20	0.72
45:NL:2:ARG:NH1	45:NL:240:LEU:O	2.22	0.72
45:NN:345:ILE:HG13	45:NN:348:ASN:HB3	1.70	0.72
45:OD:293:MET:HA	45:OD:298:ASN:HD22	1.52	0.72
44:OE:237:SER:OG	44:OE:376:CYS:SG	2.46	0.72
45:OF:95:THR:HG21	45:OF:108:GLU:HG3	1.71	0.72
45:OF:217:LEU:HD21	45:OF:220:PRO:HG3	1.70	0.72
45:OH:19:LYS:HG2	45:OH:227:HIS:HA	1.72	0.72
45:OH:139:LEU:HG	45:OH:168:SER:OG	1.88	0.72
44:OM:141:VAL:HG13	44:OM:170:THR:CG2	2.18	0.72
45:ON:116:VAL:O	45:ON:120:VAL:N	2.16	0.72
45:PB:156:ARG:NH1	45:PB:159:TYR:O	2.23	0.72
45:PB:318:ARG:HB2	45:PB:364:ALA:HB3	1.71	0.72
44:PC:284:GLU:HG3	44:PC:286:LEU:HD22	1.68	0.72
44:PE:203:MET:HE2	44:PE:205:ASP:HB3	1.72	0.72
45:PH:65:LEU:HD11	45:PH:85:PHE:CD2	2.24	0.72
45:PJ:183:TYR:HA	45:PJ:385:PHE:CD1	2.24	0.72
44:QA:318:MET:N	44:QA:376:CYS:O	2.22	0.72
45:QB:287:PRO:HD3	45:QB:325:GLU:OE1	1.88	0.72
44:QC:209:ILE:HG22	44:QC:302:MET:SD	2.29	0.72
45:QD:379:LYS:O	45:QD:383:GLU:N	2.19	0.72
45:QL:319:GLY:HA2	45:QL:357:PRO:CD	2.18	0.72
44:RA:289:ALA:O	44:RA:292:THR:HG22	1.88	0.72
44:RC:25:CYS:HA	44:RC:30:ILE:HD11	1.70	0.72
45:RH:207:LEU:O	45:RH:211:CYS:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:256:ASN:OD1	44:RI:181:VAL:HG22	1.89	0.72
44:RK:145:THR:HG22	46:RK:501:GTP:PG	2.29	0.72
44:RK:161:TYR:HB3	44:RK:164:LYS:CG	2.19	0.72
44:RK:241:SER:OG	44:RK:250:VAL:O	2.05	0.72
45:RL:113:ILE:HD11	45:RL:151:LEU:HA	1.71	0.72
44:RM:50:ASN:HA	44:RM:53:PHE:O	1.87	0.72
45:SB:259:PRO:HD3	45:SB:370:ASN:ND2	2.04	0.72
45:SD:284:LEU:CD1	45:SD:362:LYS:HE2	2.17	0.72
45:SD:412:GLU:O	45:SD:416:ASN:N	2.18	0.72
45:SF:3:GLU:O	45:SF:131:GLN:N	2.20	0.72
45:SL:325:GLU:OE1	45:SL:328:GLU:HG2	1.89	0.72
44:SM:75:ILE:HG21	44:SM:79:ARG:NH1	2.04	0.72
45:SN:86:ARG:HG2	45:SN:87:PRO:HD2	1.70	0.72
45:SN:286:VAL:O	45:SN:290:THR:N	2.20	0.72
44:TA:408:TYR:HB3	44:TA:413:MET:SD	2.29	0.72
44:TC:224:TYR:HA	44:TC:227:LEU:HD12	1.71	0.72
44:TG:291:ILE:O	44:TG:294:SER:OG	2.05	0.72
45:TL:60:VAL:HG23	45:TL:84:LEU:O	1.88	0.72
45:TN:312:THR:HG22	45:TN:370:ASN:HB3	1.71	0.72
45:UD:139:LEU:O	45:UD:184:ASN:ND2	2.21	0.72
44:UK:350:GLY:HA2	45:UL:179:VAL:HG12	1.71	0.72
45:VD:287:PRO:HG3	45:VD:329:GLN:NE2	2.04	0.72
44:VI:31:GLN:OE1	44:VI:37:PRO:HD3	1.88	0.72
44:VK:53:PHE:HB3	44:VK:61:HIS:HB3	1.71	0.72
44:WA:186:ASN:HA	44:WA:189:LEU:HD12	1.71	0.72
44:WC:90:GLU:HB2	44:WC:121:ARG:HH22	1.54	0.72
45:WD:178:THR:HG21	45:WD:180:VAL:HG12	1.71	0.72
45:WJ:309:ARG:NH2	45:WJ:426:GLN:O	2.22	0.72
44:WK:68:LEU:HD22	44:WK:153:LEU:HD11	1.71	0.72
2:1A:29:TRP:CZ2	45:MF:362:LYS:HG3	2.24	0.72
26:1R:283:ARG:NH1	44:CC:45:GLY:HA2	2.04	0.72
26:1R:411:VAL:HG12	44:EC:370:LYS:HD2	1.71	0.72
22:2L:357:ILE:HG21	35:6R:102:SER:HG	0.97	0.72
22:2L:822:THR:HA	35:5R:102:SER:CB	2.19	0.72
24:2O:228:GLN:OE1	45:UJ:57:GLY:N	2.23	0.72
26:2R:71:THR:HG21	44:MG:77:GLU:CG	2.17	0.72
27:2W:232:SER:CB	35:6R:3:TYR:HE1	2.01	0.72
24:3O:246:GLU:OE2	45:UN:277:GLY:HA2	1.89	0.72
11:3Q:115:LYS:CE	44:AG:264:ARG:HD3	2.19	0.72
12:3S:253:ARG:NH1	45:AN:417:ASP:OD2	2.22	0.72
37:5C:138:ARG:NH1	45:NL:357:PRO:HD2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:34:PHE:CE1	44:KK:431:ASP:CA	2.61	0.72
40:6F:27:TYR:CE2	44:IE:89:PRO:HB3	2.24	0.72
41:6G:93:LYS:O	44:UK:96:LYS:HG2	1.89	0.72
44:AC:402:ARG:HG3	44:AC:405:VAL:CG1	2.19	0.72
45:AF:73:MET:HE1	45:AF:92:PHE:HB3	1.70	0.72
45:AF:302:ALA:HB3	45:AF:377:MET:CE	2.17	0.72
44:AK:7:ILE:HD11	44:AK:122:ILE:CD1	2.20	0.72
44:BA:171:ILE:HG23	44:BA:204:LEU:O	1.90	0.72
44:BA:210:TYR:CE1	44:BA:227:LEU:HD11	2.23	0.72
44:BC:205:ASP:OD2	44:BC:304:LYS:N	2.19	0.72
44:BC:222:PRO:HD2	45:BD:324:LYS:HD3	1.71	0.72
44:BE:72:PRO:HG3	44:BE:95:GLY:O	1.88	0.72
45:BJ:274:THR:HG21	45:BJ:279:GLN:HA	1.70	0.72
45:CB:248:SER:HA	45:CB:252:LYS:HG3	1.71	0.72
45:CJ:286:VAL:HG12	45:CJ:287:PRO:HD3	1.71	0.72
44:DC:212:ILE:HD11	44:DC:300:ASN:HA	1.70	0.72
45:DJ:268:ILE:HG13	45:DJ:300:MET:HE2	1.70	0.72
45:DL:246:LEU:HD23	46:DM:501:GTP:H5''	1.71	0.72
45:DN:20:PHE:CE2	45:DN:24:ILE:HD11	2.24	0.72
44:EE:321:GLY:HA2	44:EE:357:TYR:O	1.88	0.72
45:FD:8:GLN:HG3	45:FD:14:ASN:HA	1.71	0.72
45:FD:67:ASP:OD1	45:FD:68:LEU:N	2.22	0.72
45:FD:320:ARG:HH12	45:FD:357:PRO:HG3	1.55	0.72
45:FF:313:ALA:O	45:FF:349:ILE:HA	1.88	0.72
45:FL:262:ARG:NH1	45:FL:421:GLU:OE1	2.23	0.72
44:FM:91:GLN:HB3	44:FM:121:ARG:HH21	1.53	0.72
44:GK:7:ILE:N	44:GK:136:LEU:O	2.18	0.72
44:GK:116:ASP:OD1	44:GK:117:LEU:N	2.22	0.72
44:GK:434:GLU:O	44:GK:437:ILE:HG12	1.90	0.72
44:HC:222:PRO:HG2	45:HD:324:LYS:HD3	1.71	0.72
45:HH:103:LYS:HA	45:HH:107:THR:CG2	2.20	0.72
45:HL:274:THR:HG21	45:HL:279:GLN:HA	1.71	0.72
44:HM:188:ILE:HG23	44:HM:425:LEU:HD12	1.71	0.72
45:HN:100:ASN:HD21	45:HN:103:LYS:HE2	1.53	0.72
44:IC:205:ASP:OD1	44:IC:303:ALA:HA	1.87	0.72
45:ID:109:GLY:HA3	45:ID:147:MET:CE	2.19	0.72
44:II:275:ILE:HD12	44:II:368:LEU:HD11	1.69	0.72
45:IN:73:MET:HA	45:IN:76:VAL:CG1	2.18	0.72
45:JB:113:ILE:O	45:JB:116:VAL:HG12	1.89	0.72
45:JB:274:THR:OG1	45:JB:282:ARG:NH2	2.22	0.72
44:JC:288:VAL:HG11	44:JC:327:ASP:CB	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:257:LEU:HD11	45:JF:314:SER:HB3	1.69	0.72
44:JK:213:CYS:O	44:JK:217:LEU:HB2	1.90	0.72
45:JN:16:ILE:HD13	45:JN:226:ASN:OD1	1.90	0.72
45:JN:286:VAL:HG12	45:JN:329:GLN:HG3	1.70	0.72
45:KF:4:ILE:HD11	45:KF:50:TYR:CZ	2.25	0.72
45:KF:215:LEU:HD11	45:KF:228:LEU:HD21	1.70	0.72
45:KF:359:LYS:O	45:KF:361:LEU:HG	1.88	0.72
45:KH:173:PRO:CG	45:KH:380:ARG:HD3	2.19	0.72
45:KH:330:MET:SD	45:KH:349:ILE:HD13	2.28	0.72
45:KL:161:ASP:OD1	45:KL:162:ARG:NH1	2.22	0.72
44:KM:112:LYS:O	44:KM:115:VAL:HG12	1.89	0.72
44:KM:406:HIS:HA	44:KM:409:VAL:HG12	1.71	0.72
45:KN:183:TYR:HB3	45:KN:398:TYR:HE2	1.53	0.72
45:LB:307:HIS:ND1	45:LB:376:GLU:OE2	2.18	0.72
45:LF:290:THR:HG22	45:LF:329:GLN:HE21	1.53	0.72
44:LI:413:MET:CG	44:LI:417:GLU:HG3	2.18	0.72
45:LJ:245:GLN:HG3	45:LJ:353:ILE:HG21	1.70	0.72
44:LM:88:HIS:CE1	44:LM:90:GLU:HG2	2.23	0.72
45:LN:61:PRO:CG	45:LN:84:LEU:HB3	2.19	0.72
45:MF:380:ARG:O	45:MF:384:GLN:HG2	1.89	0.72
44:NA:4:VAL:HG12	44:NA:51:THR:O	1.89	0.72
45:NB:103:LYS:HA	45:NB:107:THR:CG2	2.19	0.72
44:NK:69:ASP:OD1	44:NK:71:GLU:N	2.16	0.72
44:NK:288:VAL:CG2	44:NK:323:VAL:HG12	2.19	0.72
45:NN:103:LYS:NZ	45:NN:401:GLU:OE2	2.20	0.72
44:OA:267:PHE:O	44:OA:268:MET:HG2	1.88	0.72
44:OC:71:GLU:OE1	44:OC:73:THR:N	2.22	0.72
44:OC:420:GLU:O	44:OC:423:GLU:HG3	1.89	0.72
44:OE:210:TYR:CE1	45:OF:324:LYS:HD2	2.24	0.72
44:OG:22:GLU:HG2	44:OG:83:TYR:OH	1.89	0.72
44:OI:105:ARG:HA	44:OI:109:THR:OG1	1.89	0.72
45:OL:86:ARG:HH22	45:PL:278:SER:HB2	1.52	0.72
44:PA:60:LYS:NZ	44:PA:85:GLN:O	2.21	0.72
44:PE:246:GLY:HA2	44:PE:357:TYR:CD2	2.24	0.72
44:PG:287:SER:HA	44:PG:373:ARG:NH2	2.05	0.72
45:PH:192:LEU:O	45:PH:196:ALA:HB3	1.89	0.72
44:PK:252:ILE:HA	44:PK:255:PHE:CD2	2.24	0.72
44:QA:69:ASP:N	44:QA:93:ILE:O	2.21	0.72
44:QI:31:GLN:OE1	44:QI:37:PRO:HD3	1.89	0.72
45:QL:375:GLN:HG2	45:QL:423:GLN:NE2	2.03	0.72
45:RB:301:CYS:HB3	45:RB:377:MET:HE1	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:26:LEU:HD22	44:RC:364:PRO:HD3	1.71	0.72
45:RH:210:ILE:HG23	45:RH:214:THR:HG21	1.71	0.72
44:RI:145:THR:HG22	46:RI:501:GTP:PG	2.29	0.72
45:RJ:147:MET:O	45:RJ:151:LEU:N	2.19	0.72
44:RK:51:THR:HG21	44:RK:243:ARG:HD3	1.71	0.72
44:RK:268:MET:CE	44:RK:378:ILE:HG22	2.18	0.72
44:SA:288:VAL:HG23	44:SA:291:ILE:HD11	1.71	0.72
44:SC:384:ILE:O	44:SC:387:VAL:HG22	1.88	0.72
44:SE:70:LEU:HD13	44:SE:110:ILE:HD12	1.71	0.72
44:SK:326:LYS:HD3	45:SL:212:PHE:HZ	1.53	0.72
45:SN:236:VAL:HG12	45:SN:250:LEU:HD21	1.70	0.72
44:TC:188:ILE:HG22	44:TC:421:ALA:HB1	1.69	0.72
44:TC:304:LYS:HD3	44:TC:304:LYS:O	1.89	0.72
44:TG:9:VAL:HG13	44:TG:139:ASN:HB3	1.70	0.72
45:TJ:45:GLU:O	45:TJ:46:ARG:HD3	1.89	0.72
44:TM:191:THR:HA	44:TM:194:LEU:HG	1.70	0.72
44:UE:202:VAL:HA	44:UE:268:MET:O	1.90	0.72
44:UE:348:PRO:HD3	45:UF:388:MET:HB2	1.71	0.72
45:UF:1:MET:O	45:UF:2:ARG:HG2	1.90	0.72
45:UF:184:ASN:OD1	45:UF:185:ALA:N	2.23	0.72
45:UH:183:TYR:CE2	45:UH:394:PHE:HB2	2.24	0.72
44:UI:188:ILE:HG23	44:UI:425:LEU:HD12	1.71	0.72
45:UJ:32:PRO:HB3	45:UJ:81:PHE:HA	1.69	0.72
44:UM:328:VAL:O	44:UM:332:ILE:HG12	1.88	0.72
44:VM:119:LEU:HA	44:VM:122:ILE:HG12	1.71	0.72
45:VN:245:GLN:HB2	45:VN:353:ILE:HG21	1.70	0.72
45:WL:318:ARG:HD3	45:WL:358:PRO:HG3	1.70	0.72
44:WM:200:VAL:HG13	44:WM:268:MET:HE1	1.70	0.72
44:WM:407:TRP:CZ3	45:WN:255:VAL:HA	2.23	0.72
45:WN:221:THR:HG23	45:WN:224:ASP:H	1.52	0.72
1:6H:174:MET:HE2	45:FB:320:ARG:CZ	2.19	0.72
27:1W:67:ASP:HB2	45:LH:219:THR:OG1	1.89	0.72
31:2H:219:ILE:O	44:MC:84:ARG:NH2	2.22	0.72
15:2V:93:MET:O	45:LF:261:PRO:HB2	1.89	0.72
2:3A:71:TYR:CE2	44:AM:223:THR:HG21	2.24	0.72
37:5D:39:ARG:N	44:KK:265:ILE:O	2.23	0.72
35:5R:87:LYS:HG2	35:5R:88:TYR:CE1	2.24	0.72
40:6F:19:SER:HB2	40:6F:37:GLN:NE2	2.04	0.72
11:6Q:75:PHE:HB2	11:6Q:169:ASP:CA	2.19	0.72
44:AC:28:HIS:NE2	44:AC:243:ARG:HD2	2.04	0.72
44:AE:93:ILE:HG12	44:AE:117:LEU:HD21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:271:SER:OG	44:AE:301:MET:SD	2.47	0.72
45:AJ:178:THR:HB	45:AJ:181:GLU:CG	2.18	0.72
44:AM:21:TRP:O	44:AM:25:CYS:N	2.16	0.72
44:BA:106:GLY:HA3	44:BA:148:GLY:HA3	1.71	0.72
44:BG:66:VAL:HG11	44:BG:122:ILE:HD11	1.71	0.72
44:BG:123:ARG:HA	44:BG:161:TYR:OH	1.89	0.72
44:BG:276:ILE:HD13	44:BG:281:ALA:HA	1.70	0.72
44:BM:141:VAL:CG1	44:BM:172:TYR:HA	2.18	0.72
45:BN:318:ARG:HH11	45:BN:358:PRO:HG3	1.53	0.72
44:CA:67:PHE:HB3	44:CA:75:ILE:HD11	1.71	0.72
45:CD:5:VAL:HG13	45:CD:130:LEU:HD11	1.70	0.72
44:CI:2:ARG:O	44:CI:51:THR:HA	1.90	0.72
44:CK:432:TYR:HA	44:CK:435:VAL:HG12	1.68	0.72
44:DC:49:PHE:O	44:DC:53:PHE:N	2.21	0.72
44:DE:11:GLN:HA	44:DE:14:ILE:HD12	1.71	0.72
44:DG:210:TYR:CE1	44:DG:227:LEU:HD11	2.23	0.72
44:DK:106:GLY:O	44:DK:111:GLY:HA3	1.89	0.72
44:DM:301:MET:CE	44:DM:307:PRO:HG3	2.18	0.72
45:DN:200:MET:SD	45:DN:266:PHE:HB2	2.30	0.72
44:EA:5:ILE:O	44:EA:136:LEU:N	2.21	0.72
45:ED:272:PRO:HD3	45:ED:364:ALA:HA	1.69	0.72
45:EF:46:ARG:NH2	44:EG:76:ASP:OD2	2.22	0.72
44:EG:240:ALA:HA	44:EG:243:ARG:NH1	2.04	0.72
45:EH:60:VAL:HG23	45:EH:84:LEU:O	1.90	0.72
45:EH:166:THR:HB	45:EH:200:MET:CG	2.18	0.72
44:EK:304:LYS:NZ	44:EK:390:ARG:HD2	2.04	0.72
45:EL:233:MET:O	45:EL:236:VAL:HG12	1.89	0.72
45:FD:233:MET:O	45:FD:236:VAL:HG12	1.89	0.72
45:FF:28:HIS:HB3	45:FF:43:GLN:NE2	2.03	0.72
45:FN:46:ARG:HG3	45:FN:49:VAL:CG2	2.20	0.72
45:FN:113:ILE:HD11	45:FN:151:LEU:CB	2.19	0.72
44:GA:88:HIS:HB3	44:GA:91:GLN:CG	2.18	0.72
44:GG:141:VAL:HG11	44:GG:172:TYR:HA	1.70	0.72
45:GH:133:PHE:HB2	45:GH:164:MET:SD	2.29	0.72
45:GJ:49:VAL:HG21	45:GJ:241:ARG:HG2	1.71	0.72
44:HA:278:ALA:HB2	44:HA:369:ALA:HB2	1.70	0.72
44:HC:195:LEU:O	44:HC:266:HIS:NE2	2.19	0.72
45:HH:215:LEU:O	45:HH:275:SER:OG	2.06	0.72
45:HL:117:LEU:O	45:HL:121:ARG:NH1	2.23	0.72
45:IJ:39:ASP:N	45:IJ:43:GLN:OE1	2.21	0.72
44:IM:143:GLY:HA3	46:IM:501:GTP:O2B	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:221:ARG:CZ	45:IN:325:GLU:HG2	2.19	0.72
45:JB:133:PHE:O	45:JB:165:GLU:N	2.22	0.72
45:JB:262:ARG:O	45:JB:263:LEU:HD23	1.89	0.72
44:KA:204:LEU:HD13	44:KA:302:MET:CE	2.19	0.72
44:KA:319:TYR:O	44:KA:356:ASN:N	2.22	0.72
44:KI:241:SER:HA	44:KI:356:ASN:HD21	1.54	0.72
44:KK:288:VAL:HA	44:KK:291:ILE:CD1	2.18	0.72
44:KK:314:ALA:O	44:KK:379:SER:OG	2.04	0.72
45:LB:21:TRP:CZ3	45:LB:61:PRO:HB3	2.25	0.72
45:LB:141:GLY:HA3	48:LB:502:GDP:O3A	1.89	0.72
45:LB:192:LEU:HD12	45:LB:196:ALA:HB2	1.71	0.72
44:LC:55:GLU:HG3	44:LC:57:GLY:H	1.54	0.72
45:LF:287:PRO:HA	45:LF:329:GLN:NE2	2.04	0.72
44:LG:196:GLU:HG2	44:LG:197:HIS:HD2	1.54	0.72
44:LG:383:ALA:O	44:LG:386:GLU:HG2	1.89	0.72
45:LH:73:MET:HE1	45:LH:91:VAL:O	1.89	0.72
44:LI:239:THR:HA	44:LI:242:LEU:HD23	1.71	0.72
45:LJ:321:MET:HG2	45:LJ:363:MET:HE3	1.70	0.72
45:LN:223:GLY:O	45:LN:227:HIS:N	2.22	0.72
44:MG:407:TRP:HZ3	45:MH:255:VAL:HA	1.52	0.72
45:MJ:148:GLY:O	45:MJ:152:ILE:HG12	1.88	0.72
45:ML:178:THR:HB	45:ML:181:GLU:HG3	1.70	0.72
45:ML:318:ARG:HG3	45:ML:358:PRO:HD3	1.70	0.72
45:NB:269:GLY:HA2	45:NB:300:MET:HG3	1.70	0.72
45:NF:383:GLU:O	45:NF:386:THR:HG22	1.89	0.72
44:NI:384:ILE:O	44:NI:387:VAL:HG22	1.89	0.72
44:NK:145:THR:HG22	46:NK:501:GTP:O3B	1.88	0.72
44:NK:269:LEU:HD12	44:NK:270:SER:H	1.54	0.72
44:OA:333:ALA:O	44:OA:337:THR:HG23	1.88	0.72
44:OE:323:VAL:HG22	44:OE:373:ARG:NH1	2.03	0.72
44:OG:209:ILE:HD13	44:OG:227:LEU:HB3	1.71	0.72
44:PG:340:THR:O	44:PG:341:ILE:HD13	1.90	0.72
44:PK:96:LYS:HB3	45:PL:1:MET:HE2	1.70	0.72
45:PL:116:VAL:HA	45:PL:119:VAL:HG12	1.70	0.72
45:PN:187:LEU:HD11	45:PN:408:PHE:CE1	2.24	0.72
44:QA:2:ARG:HD3	44:QA:242:LEU:HD22	1.71	0.72
45:QB:260:PHE:CB	45:QB:263:LEU:HD13	2.18	0.72
45:QD:131:GLN:O	45:QD:163:ILE:HG12	1.89	0.72
45:QF:134:GLN:HB3	45:QF:165:GLU:HB2	1.72	0.72
45:QH:164:MET:HB2	45:QH:197:ASP:H	1.54	0.72
45:QJ:140:GLY:O	45:QJ:184:ASN:ND2	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:262:TYR:OH	45:QL:391:ARG:HB3	1.90	0.72
45:QL:345:ILE:HG23	45:QL:348:ASN:HD21	1.55	0.72
44:QM:311:LYS:N	44:QM:382:THR:OG1	2.22	0.72
45:QN:207:LEU:CB	45:QN:225:LEU:HD22	2.18	0.72
44:RA:317:MET:HA	44:RA:377:MET:HA	1.71	0.72
44:RA:319:TYR:N	44:RA:354:GLY:O	2.17	0.72
44:RC:401:LYS:C	44:RC:402:ARG:HD3	2.10	0.72
45:RD:303:ALA:HB2	45:RD:377:MET:HE1	1.69	0.72
44:RE:171:ILE:O	44:RE:171:ILE:HG13	1.88	0.72
45:RH:270:PHE:HD2	45:RH:273:LEU:HD21	1.53	0.72
44:RI:60:LYS:NZ	44:RI:85:GLN:O	2.22	0.72
44:RI:105:ARG:HA	44:RI:109:THR:CB	2.19	0.72
44:RM:118:CYS:SG	44:RM:120:ASP:HA	2.30	0.72
44:RM:119:LEU:O	44:RM:121:ARG:N	2.21	0.72
44:RM:135:PHE:O	44:RM:136:LEU:HD23	1.88	0.72
44:RM:315:CYS:O	44:RM:351:PHE:HA	1.89	0.72
45:RN:77:ARG:HG3	45:RN:82:GLY:O	1.90	0.72
44:SA:273:ALA:N	44:SA:375:VAL:O	2.22	0.72
44:SA:323:VAL:HB	44:SA:373:ARG:HH21	1.53	0.72
45:SB:19:LYS:HG2	45:SB:226:ASN:CB	2.19	0.72
45:SB:137:HIS:O	45:SB:168:SER:HA	1.89	0.72
45:SF:97:ALA:O	45:SF:103:LYS:HD2	1.89	0.72
44:SG:1:MET:HG2	44:SG:2:ARG:HH11	1.54	0.72
44:TE:70:LEU:HD11	44:TE:149:LEU:HD21	1.70	0.72
45:TF:47:ILE:HG12	45:TF:51:TYR:HB2	1.70	0.72
45:TH:87:PRO:HA	45:TH:90:PHE:CD2	2.24	0.72
45:TJ:3:GLU:CA	45:TJ:49:VAL:HG13	2.14	0.72
45:TJ:72:THR:HG23	45:TJ:73:MET:SD	2.29	0.72
45:TJ:86:ARG:HB3	45:UJ:281:TYR:HE1	1.54	0.72
45:UF:322:SER:OG	44:UG:222:PRO:O	2.05	0.72
45:UH:198:GLU:HG2	45:UH:266:PHE:HE2	1.54	0.72
44:UI:70:LEU:HD13	44:UI:145:THR:OG1	1.90	0.72
45:UJ:99:ASN:CA	45:UJ:142:GLY:HA3	2.19	0.72
44:UK:166:LYS:HB2	44:UK:199:ASP:H	1.54	0.72
44:UK:324:VAL:HG11	44:UK:326:LYS:HZ2	1.53	0.72
45:UL:105:HIS:CG	45:UL:150:LEU:HD11	2.24	0.72
44:VA:143:GLY:HA3	46:VA:501:GTP:O2B	1.89	0.72
44:VA:301:MET:HE3	44:VA:307:PRO:HD3	1.70	0.72
45:VF:240:LEU:HD23	45:VF:240:LEU:O	1.89	0.72
45:VF:318:ARG:CZ	45:VF:358:PRO:HG3	2.19	0.72
45:VH:294:PHE:CD2	45:VH:333:VAL:HG11	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:214:THR:O	45:VL:275:SER:N	2.22	0.72
44:VM:23:LEU:HD22	44:VM:229:ARG:NH1	2.02	0.72
44:VM:88:HIS:CE1	44:VM:90:GLU:HG2	2.24	0.72
44:VM:287:SER:N	44:VM:290:GLU:OE2	2.21	0.72
45:VN:387:ALA:O	45:VN:390:ARG:HG2	1.90	0.72
44:WA:170:THR:O	44:WA:204:LEU:HB2	1.88	0.72
44:WA:222:PRO:O	45:WB:322:SER:OG	2.07	0.72
45:WH:239:CYS:HB3	45:WH:354:CYS:HB2	1.70	0.72
1:6H:212:GLY:CA	45:FD:360:GLY:O	2.34	0.72
3:0B:38:ARG:NE	44:JE:45:GLY:O	2.20	0.72
22:1L:406:ARG:NE	45:CF:358:PRO:O	2.21	0.72
25:1P:362:LYS:HZ2	45:TB:359:LYS:HD3	1.51	0.72
26:1R:410:TRP:HE1	44:EC:372:MET:HE1	1.52	0.72
26:2R:68:MET:O	45:MH:320:ARG:NH2	2.23	0.72
26:2R:93:VAL:HG13	44:AG:370:LYS:HD3	1.69	0.72
12:2S:184:PRO:HG3	44:WG:127:ASP:O	1.88	0.72
22:3L:42:LYS:NZ	45:BB:42:LEU:CD2	2.45	0.72
12:3S:152:SER:HB3	45:WN:108:GLU:OE1	1.89	0.72
34:4F:193:LYS:HE2	44:IM:219:ILE:HG23	1.69	0.72
37:5A:126:ILE:HG13	45:ND:215:LEU:HD21	1.70	0.72
37:5D:60:GLY:HA2	45:KN:385:PHE:HB3	1.71	0.72
38:5G:60:TRP:CZ3	45:OJ:279:GLN:HG2	2.23	0.72
35:5R:31:PHE:CE2	45:LJ:73:MET:HB3	2.24	0.72
40:6F:64:THR:HA	45:JF:279:GLN:NE2	2.04	0.72
35:7R:419:GLN:HG2	35:7R:422:TYR:HD2	1.53	0.72
45:AB:318:ARG:HD3	45:AB:358:PRO:HD3	1.72	0.72
45:AH:86:ARG:HD2	45:BH:281:TYR:CB	2.20	0.72
44:AI:240:ALA:O	44:AI:356:ASN:ND2	2.23	0.72
44:AI:295:ALA:HB1	44:AI:377:MET:CE	2.19	0.72
45:BF:253:LEU:HD21	45:BF:316:LEU:CD2	2.18	0.72
44:BG:195:LEU:HD12	44:BG:266:HIS:HE1	1.54	0.72
45:BH:358:PRO:O	45:BH:361:LEU:HD22	1.89	0.72
45:BH:374:ILE:HD11	45:BH:422:TYR:CE2	2.25	0.72
44:CA:295:ALA:HB1	44:CA:377:MET:CE	2.19	0.72
44:CG:276:ILE:HG13	44:CG:280:LYS:NZ	2.05	0.72
45:CH:100:ASN:HD22	45:CH:103:LYS:HE2	1.53	0.72
44:CM:312:TYR:HB2	44:CM:343:PHE:CD1	2.24	0.72
45:DD:169:VAL:HG22	45:DD:202:ILE:HB	1.71	0.72
45:DF:406:MET:O	45:DF:409:THR:OG1	2.02	0.72
44:DI:242:LEU:CD2	44:DI:252:ILE:HG13	2.19	0.72
45:DJ:100:ASN:ND2	45:DJ:103:LYS:HG3	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:4:ILE:HG23	45:DN:131:GLN:HB3	1.71	0.72
44:EA:22:GLU:HG3	44:EA:83:TYR:CE2	2.25	0.72
44:EA:213:CYS:SG	44:EA:219:ILE:HB	2.29	0.72
44:EA:320:ARG:HD2	44:EA:360:PRO:HG3	1.70	0.72
45:EB:322:SER:HB3	44:EC:221:ARG:CZ	2.20	0.72
44:EC:258:ASN:HD22	44:EC:352:LYS:HB2	1.53	0.72
44:EI:35:GLN:OE1	44:EI:35:GLN:N	2.19	0.72
45:EJ:268:ILE:HG22	45:EJ:368:VAL:HG13	1.72	0.72
44:EK:1:MET:SD	45:EL:94:GLN:NE2	2.62	0.72
45:EL:1:MET:O	45:EL:2:ARG:HG2	1.89	0.72
44:FC:417:GLU:O	44:FC:420:GLU:HG2	1.89	0.72
45:FH:7:ILE:HB	45:FH:135:ILE:CD1	2.19	0.72
44:FK:81:GLY:O	44:FK:84:ARG:HG3	1.89	0.72
45:FN:272:PRO:HD2	45:FN:364:ALA:HA	1.70	0.72
45:FN:382:ALA:HA	45:FN:385:PHE:HB3	1.70	0.72
44:GC:210:TYR:HE2	45:GD:324:LYS:HA	1.54	0.72
45:GH:316:LEU:HD23	45:GH:352:SER:HB2	1.68	0.72
45:GJ:173:PRO:CG	45:GJ:380:ARG:HD3	2.18	0.72
44:GK:417:GLU:O	44:GK:420:GLU:HG2	1.89	0.72
45:GL:379:LYS:O	45:GL:383:GLU:N	2.15	0.72
45:HJ:286:VAL:HG12	45:HJ:329:GLN:OE1	1.88	0.72
44:HM:314:ALA:H	44:HM:380:ASN:HB3	1.54	0.72
44:IA:201:ALA:O	44:IA:268:MET:HG3	1.88	0.72
45:IB:317:PHE:CZ	45:IB:326:VAL:HG13	2.25	0.72
44:IE:271:SER:HA	44:IE:302:MET:HG3	1.72	0.72
45:IF:342:VAL:HG13	45:IF:345:ILE:HG22	1.71	0.72
45:IH:68:LEU:HD21	45:IH:147:MET:CE	2.19	0.72
45:IN:41:ASP:OD1	45:IN:42:LEU:N	2.23	0.72
45:JJ:8:GLN:NE2	45:JJ:17:GLY:HA3	2.05	0.72
44:KI:141:VAL:HG11	44:KI:172:TYR:CE1	2.24	0.72
45:KJ:211:CYS:SG	45:KJ:220:PRO:HG3	2.29	0.72
44:KK:311:LYS:HB3	44:KK:344:VAL:CA	2.18	0.72
45:KN:341:PHE:N	45:KN:348:ASN:OD1	2.22	0.72
44:LA:254:GLU:HG3	45:LD:98:GLY:HA2	1.71	0.72
45:LB:39:ASP:OD1	45:LB:43:GLN:NE2	2.23	0.72
44:MA:317:MET:SD	44:MA:377:MET:HG2	2.30	0.72
44:MK:35:GLN:NE2	44:MK:36:MET:O	2.22	0.72
45:MN:168:SER:HG	45:MN:199:CYS:HG	1.38	0.72
45:MN:317:PHE:CE2	45:MN:326:VAL:HG22	2.24	0.72
44:NC:76:ASP:OD2	45:ND:46:ARG:NH2	2.17	0.72
44:NC:306:ASP:HB3	44:NC:309:HIS:HD2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:215:LEU:HD21	45:NF:273:LEU:HD13	1.71	0.72
44:NG:320:ARG:CZ	44:NG:360:PRO:HA	2.20	0.72
45:NH:342:VAL:HG13	45:NH:345:ILE:HG22	1.71	0.72
44:NI:53:PHE:HE2	44:NI:63:PRO:HG3	1.54	0.72
45:NL:61:PRO:HD2	45:NL:84:LEU:O	1.90	0.72
44:OE:264:ARG:O	44:OE:266:HIS:ND1	2.20	0.72
44:OG:101:ASN:HA	44:OG:144:GLY:H	1.53	0.72
44:OG:288:VAL:HA	44:OG:291:ILE:CD1	2.19	0.72
45:OH:309:ARG:N	45:OH:372:THR:OG1	2.22	0.72
44:OI:265:ILE:HG12	44:OI:432:TYR:HE1	1.52	0.72
44:PC:398:MET:HG2	45:PD:345:ILE:CD1	2.20	0.72
44:PE:319:TYR:CE1	44:PE:328:VAL:HG22	2.25	0.72
45:PJ:183:TYR:HA	45:PJ:385:PHE:HD1	1.53	0.72
44:PM:48:ALA:CB	44:PM:243:ARG:HB2	2.19	0.72
44:QA:34:GLY:HA3	44:QA:86:LEU:HD11	1.71	0.72
45:QB:198:GLU:OE2	45:QB:254:ALA:HB2	1.89	0.72
45:QB:203:ASP:OD2	45:QB:302:ALA:N	2.21	0.72
45:QB:392:LYS:HA	45:QB:395:LEU:CD1	2.15	0.72
45:QD:25:SER:HG	45:QD:51:TYR:HH	1.37	0.72
44:QE:3:GLU:OE2	44:QE:129:CYS:HB3	1.90	0.72
44:QE:32:PRO:HB3	44:QE:83:TYR:HE1	1.55	0.72
45:QF:141:GLY:HA2	48:QF:501:GDP:O2A	1.89	0.72
45:QJ:282:ARG:NH2	45:QJ:292:GLN:OE1	2.21	0.72
44:QM:256:GLN:HG2	44:QM:260:VAL:CB	2.18	0.72
45:QN:135:ILE:HB	45:QN:166:THR:HG22	1.71	0.72
45:RB:87:PRO:HA	45:RB:90:PHE:HD2	1.54	0.72
45:RD:309:ARG:NH1	45:RD:426:GLN:O	2.23	0.72
45:RN:221:THR:HG23	45:RN:224:ASP:H	1.53	0.72
44:SA:69:ASP:OD2	44:SA:74:VAL:HG21	1.89	0.72
45:SB:309:ARG:NH2	45:SB:426:GLN:O	2.22	0.72
44:SC:371:VAL:HG22	44:SC:373:ARG:H	1.54	0.72
44:SE:276:ILE:HD12	44:SE:281:ALA:HB1	1.71	0.72
44:SE:326:LYS:HE2	45:SF:220:PRO:CD	2.19	0.72
45:SF:101:TRP:HB3	45:SF:398:TYR:HE1	1.53	0.72
44:SG:51:THR:OG1	44:SG:243:ARG:HB3	1.89	0.72
44:SI:236:SER:O	44:SI:240:ALA:N	2.22	0.72
45:SJ:172:SER:OG	45:SJ:205:GLU:HB2	1.89	0.72
45:SJ:282:ARG:HH22	45:SJ:291:GLN:HE21	1.36	0.72
45:SN:14:ASN:ND2	45:SN:67:ASP:OD2	2.22	0.72
45:TD:53:GLU:OE2	45:UD:281:TYR:OH	2.08	0.72
45:TD:255:VAL:HG21	44:TE:100:ALA:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:289:LEU:HD22	45:TD:365:VAL:HG23	1.71	0.72
44:TE:141:VAL:HG12	44:TE:171:ILE:O	1.88	0.72
45:TF:231:ALA:HB1	45:TF:270:PHE:CZ	2.24	0.72
45:TH:2:ARG:HE	44:TI:72:PRO:HD2	1.55	0.72
44:TI:251:ASP:O	44:TI:254:GLU:N	2.22	0.72
45:TJ:180:VAL:HG22	45:TJ:183:TYR:HB2	1.72	0.72
45:UB:315:ALA:HB2	45:UB:367:PHE:HE2	1.54	0.72
45:UH:4:ILE:HB	45:UH:132:GLY:O	1.88	0.72
44:UK:89:PRO:HB3	44:VI:280:LYS:HZ2	1.54	0.72
44:VA:196:GLU:OE2	44:VA:264:ARG:NH1	2.22	0.72
44:VA:221:ARG:HE	45:VB:321:MET:HE3	1.53	0.72
45:VB:398:TYR:HB3	45:VB:403:MET:CE	2.18	0.72
44:VE:51:THR:OG1	44:VE:243:ARG:HB3	1.90	0.72
44:VE:172:TYR:CE2	44:VE:203:MET:HG3	2.25	0.72
45:VH:45:GLU:O	45:VH:46:ARG:HD3	1.89	0.72
44:VI:420:GLU:O	44:VI:423:GLU:HG2	1.88	0.72
44:VK:6:SER:O	44:VK:7:ILE:HD13	1.90	0.72
45:VL:1:MET:O	45:VL:2:ARG:HG2	1.90	0.72
44:VM:12:GLY:O	44:VM:16:VAL:HG12	1.88	0.72
45:WB:164:MET:CE	45:WB:196:ALA:HA	2.19	0.72
45:WD:405:GLU:O	45:WD:409:THR:HG23	1.89	0.72
45:WL:221:THR:HG23	45:WL:224:ASP:H	1.53	0.72
44:WM:310:GLY:HA3	44:WM:383:ALA:CA	2.19	0.72
20:1J:162:VAL:HG23	45:IH:362:LYS:NZ	2.02	0.72
31:2H:183:PHE:CZ	45:AD:228:LEU:HG	2.24	0.72
24:3O:373:ARG:NH2	44:UI:282:TYR:OH	2.21	0.72
15:3V:117:PRO:CB	45:LD:392:LYS:HD2	2.20	0.72
38:5F:62:TYR:HA	45:OF:280:GLN:HE22	1.53	0.72
41:6G:274:ASN:OD1	44:UC:116:ASP:HB2	1.89	0.72
35:7R:246:GLN:HG2	44:BA:58:ALA:HB1	1.71	0.72
42:8L:355:UNK:O	42:8L:359:UNK:N	2.22	0.72
43:8P:312:UNK:O	43:8P:316:UNK:N	2.23	0.72
45:AB:143:THR:O	45:AB:147:MET:HE2	1.89	0.72
44:AC:155:GLU:HG2	44:AC:197:HIS:CD2	2.24	0.72
45:AD:8:GLN:OE1	45:AD:17:GLY:HA3	1.89	0.72
44:AE:175:PRO:HG2	44:AE:176:GLN:OE1	1.89	0.72
45:AJ:200:MET:SD	45:AJ:268:ILE:HD13	2.28	0.72
44:BA:221:ARG:HH12	45:BB:325:GLU:CB	1.99	0.72
45:BD:134:GLN:HG3	45:BD:165:GLU:HB2	1.70	0.72
45:BH:45:GLU:O	45:BH:46:ARG:HD3	1.90	0.72
45:CL:67:ASP:OD1	45:CL:68:LEU:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:319:TYR:O	44:DA:356:ASN:N	2.23	0.72
44:DA:321:GLY:N	44:DA:356:ASN:O	2.23	0.72
45:DD:271:ALA:HB2	45:DD:298:ASN:HD21	1.55	0.72
44:DM:236:SER:O	44:DM:243:ARG:NH2	2.22	0.72
44:DM:293:ASN:O	44:DM:297:GLU:HG3	1.89	0.72
45:DN:105:HIS:NE2	45:DN:150:LEU:HB2	2.05	0.72
44:EA:53:PHE:HE1	44:EA:63:PRO:HA	1.52	0.72
44:EA:307:PRO:HA	44:EA:383:ALA:CB	2.18	0.72
45:ED:267:MET:CE	45:ED:305:PRO:HB3	2.20	0.72
45:EL:21:TRP:CH2	45:EL:61:PRO:HB3	2.24	0.72
45:EL:50:TYR:CE2	45:EL:241:ARG:HD3	2.24	0.72
45:EL:97:ALA:CB	45:EL:143:THR:HB	2.20	0.72
45:EN:100:ASN:ND2	45:EN:401:GLU:OE1	2.22	0.72
45:EN:228:LEU:O	45:EN:232:ALA:N	2.22	0.72
44:FC:383:ALA:O	44:FC:386:GLU:HG2	1.89	0.72
44:FE:66:VAL:HG22	44:FE:68:LEU:HD11	1.69	0.72
44:FE:271:SER:OG	44:FE:301:MET:HA	1.89	0.72
45:FH:109:GLY:O	45:FH:113:ILE:HG23	1.88	0.72
44:FI:221:ARG:HD3	45:FJ:322:SER:OG	1.90	0.72
45:FJ:29:GLY:O	45:FJ:30:ILE:HD13	1.90	0.72
44:FK:224:TYR:CE2	45:FL:323:THR:HG21	2.25	0.72
45:FN:272:PRO:HD3	45:FN:289:LEU:CD2	2.20	0.72
45:FN:315:ALA:N	45:FN:350:LYS:O	2.23	0.72
44:GA:181:VAL:HG12	45:GB:347:ASN:O	1.89	0.72
44:GC:91:GLN:HB2	44:GC:121:ARG:HD2	1.71	0.72
45:GF:115:SER:O	45:GF:118:ASP:N	2.22	0.72
45:GH:322:SER:HB2	45:GH:324:LYS:N	2.04	0.72
45:GL:267:MET:HE3	45:GL:301:CYS:CB	2.18	0.72
44:HC:9:VAL:HG11	44:HC:153:LEU:HD12	1.71	0.72
45:HD:42:LEU:HD23	45:HD:243:PRO:HD2	1.71	0.72
45:HF:86:ARG:HB2	45:HF:89:ASN:OD1	1.89	0.72
44:HG:261:PRO:HA	45:HJ:394:PHE:CE1	2.25	0.72
44:HM:331:SER:O	44:HM:335:ILE:HG12	1.90	0.72
45:IB:42:LEU:HG	45:IB:45:GLU:OE2	1.89	0.72
44:IC:84:ARG:HG3	44:IC:85:GLN:OE1	1.90	0.72
45:ID:290:THR:O	45:ID:293:MET:HG2	1.89	0.72
45:IJ:113:ILE:HA	45:IJ:116:VAL:CG1	2.19	0.72
45:IL:99:ASN:HA	45:IL:142:GLY:HA3	1.72	0.72
45:IN:19:LYS:HD3	45:IN:22:GLU:OE2	1.90	0.72
45:IN:239:CYS:HB2	45:IN:316:LEU:HD23	1.70	0.72
45:IN:318:ARG:CB	45:IN:364:ALA:HB3	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:181:VAL:HG12	45:JD:256:ASN:OD1	1.89	0.72
45:JF:47:ILE:HD13	45:JF:59:TYR:HE1	1.55	0.72
45:JF:91:VAL:HG11	45:JF:116:VAL:CB	2.19	0.72
45:JF:314:SER:HB2	45:JF:350:LYS:CE	2.20	0.72
45:JF:318:ARG:CZ	45:JF:358:PRO:HD3	2.20	0.72
44:JM:185:TYR:CE1	44:JM:398:MET:HE1	2.24	0.72
44:KA:185:TYR:OH	44:KA:398:MET:O	2.07	0.72
44:KC:287:SER:O	44:KC:290:GLU:HG2	1.89	0.72
45:KF:317:PHE:CE2	45:KF:326:VAL:HG13	2.25	0.72
45:KN:419:VAL:HA	45:KN:422:TYR:HB2	1.70	0.72
44:LC:167:LEU:CD1	44:LC:252:ILE:HD11	2.19	0.72
45:LL:68:LEU:HD11	45:LL:147:MET:SD	2.30	0.72
45:LL:374:ILE:O	45:LL:377:MET:HG2	1.89	0.72
44:MA:11:GLN:HG3	44:MA:74:VAL:CG1	2.20	0.72
45:MD:73:MET:SD	45:MD:92:PHE:HB3	2.30	0.72
44:MG:120:ASP:O	44:MG:123:ARG:HG3	1.89	0.72
45:MH:16:ILE:HD13	45:MH:226:ASN:OD1	1.90	0.72
44:MI:261:PRO:HA	45:ML:394:PHE:CE1	2.24	0.72
45:ML:313:ALA:HB1	45:ML:367:PHE:HE1	1.54	0.72
45:ML:333:VAL:HA	45:ML:336:LYS:NZ	2.04	0.72
45:MN:34:GLY:O	45:MN:58:ARG:HA	1.89	0.72
45:MN:217:LEU:HD11	45:MN:220:PRO:HG3	1.72	0.72
44:NA:230:LEU:O	44:NA:234:VAL:HG23	1.88	0.72
44:NA:322:ASP:OD1	44:NA:373:ARG:NH1	2.23	0.72
45:NF:286:VAL:HG22	45:NF:363:MET:SD	2.30	0.72
44:NI:55:GLU:HG3	44:NI:57:GLY:H	1.54	0.72
45:NJ:285:THR:OG1	45:NJ:288:GLU:OE1	2.03	0.72
44:NM:264:ARG:O	44:NM:264:ARG:HD3	1.88	0.72
44:OA:10:GLY:O	44:OA:14:ILE:HG12	1.89	0.72
44:OA:319:TYR:N	44:OA:354:GLY:O	2.22	0.72
45:OH:105:HIS:CD2	45:OH:150:LEU:HB2	2.24	0.72
44:PA:102:ASN:OD1	44:PA:105:ARG:HG3	1.90	0.72
45:PB:178:THR:HB	45:PB:181:GLU:HG3	1.71	0.72
44:PC:49:PHE:CE1	44:PC:55:GLU:HB2	2.24	0.72
45:PD:101:TRP:CE3	45:PD:187:LEU:HD13	2.25	0.72
45:PD:318:ARG:NH1	45:PD:358:PRO:HG3	2.05	0.72
45:PF:20:PHE:CD1	45:PF:25:SER:CA	2.72	0.72
44:PG:395:PHE:CE1	44:PG:422:ARG:HD3	2.24	0.72
45:PL:1:MET:O	45:PL:2:ARG:HG2	1.89	0.72
45:PL:61:PRO:HD2	45:PL:84:LEU:O	1.88	0.72
44:QC:252:ILE:HA	44:QC:255:PHE:CD2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:202:ILE:HG23	45:QD:300:MET:CE	2.20	0.72
44:QE:260:VAL:HB	45:QF:397:TRP:CH2	2.24	0.72
45:QF:1:MET:O	45:QF:2:ARG:HG2	1.88	0.72
45:QL:61:PRO:CG	45:QL:84:LEU:HB3	2.17	0.72
45:QN:289:LEU:O	45:QN:293:MET:HG2	1.88	0.72
45:RF:19:LYS:O	45:RF:22:GLU:HG2	1.89	0.72
44:RG:6:SER:O	44:RG:7:ILE:HD13	1.89	0.72
44:RK:287:SER:HB3	44:RK:290:GLU:HG2	1.71	0.72
44:RM:288:VAL:HG21	44:RM:327:ASP:HB3	1.71	0.72
45:SB:1:MET:O	45:SB:2:ARG:HG2	1.89	0.72
44:SC:90:GLU:O	44:SC:121:ARG:NH1	2.22	0.72
44:SE:70:LEU:HA	44:SE:95:GLY:CA	2.13	0.72
44:SE:278:ALA:HB2	44:SE:369:ALA:CB	2.20	0.72
45:SH:154:LYS:HE2	45:SH:154:LYS:HA	1.72	0.72
45:SH:184:ASN:HA	45:SH:187:LEU:HB2	1.70	0.72
44:TA:246:GLY:HA3	44:TA:356:ASN:HA	1.72	0.72
45:TB:20:PHE:CE1	45:TB:233:MET:HB3	2.25	0.72
44:TE:80:THR:HA	44:TE:84:ARG:HD2	1.71	0.72
44:TM:90:GLU:HG3	44:TM:121:ARG:NH2	2.05	0.72
45:UB:316:LEU:HG	45:UB:352:SER:HB2	1.69	0.72
44:UC:319:TYR:HD2	44:UC:323:VAL:HG11	1.52	0.72
45:UD:2:ARG:NH2	44:UE:71:GLU:OE2	2.23	0.72
45:UD:166:THR:OG1	45:UD:198:GLU:O	2.07	0.72
45:UF:345:ILE:HG13	44:UG:398:MET:SD	2.29	0.72
44:UG:215:ARG:NE	44:UG:299:ALA:HB1	2.04	0.72
45:UH:319:GLY:HA2	45:UH:357:PRO:CG	2.18	0.72
45:UL:253:LEU:O	45:UL:257:LEU:HD13	1.90	0.72
45:VB:72:THR:O	45:VB:75:SER:OG	2.02	0.72
44:VC:223:THR:HB	45:VD:322:SER:HA	1.70	0.72
45:VF:11:GLN:N	48:VF:501:GDP:O1B	2.15	0.72
44:VI:224:TYR:CE1	45:VJ:323:THR:HG21	2.25	0.72
45:VJ:67:ASP:OD1	45:VJ:68:LEU:N	2.23	0.72
44:VK:186:ASN:O	44:VK:190:SER:N	2.19	0.72
44:VK:240:ALA:HA	44:VK:243:ARG:NH1	2.04	0.72
44:VK:273:ALA:HB1	44:VK:274:PRO:HA	1.71	0.72
44:WA:151:SER:OG	44:WA:153:LEU:O	2.07	0.72
45:WB:135:ILE:HG13	45:WB:152:ILE:CD1	2.20	0.72
45:WD:271:ALA:HB1	45:WD:272:PRO:CD	2.19	0.72
45:WF:65:LEU:HB2	45:WF:90:PHE:CE1	2.25	0.72
45:WL:187:LEU:HD11	45:WL:408:PHE:CZ	2.23	0.72
44:WM:386:GLU:O	44:WM:390:ARG:HG2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1U:238:SER:N	45:WF:33:THR:HG21	2.03	0.72
11:2Q:97:LYS:HE3	45:AH:405:GLU:HG3	1.71	0.72
26:2R:8:LEU:CD1	45:MJ:361:LEU:HG	2.19	0.72
31:4H:193:LEU:HD21	45:AL:362:LYS:HD2	1.71	0.72
36:4S:84:HIS:NE2	45:WD:112:LEU:HD12	2.03	0.72
37:5B:150:PHE:CE1	44:NG:364:PRO:HG2	2.25	0.72
37:5D:34:PHE:CE1	44:KK:430:LYS:C	2.47	0.72
40:6F:40:PHE:HE2	40:6F:61:PHE:HD1	1.38	0.72
11:6Q:102:ARG:HD2	44:AM:430:LYS:NZ	2.04	0.72
35:6R:50:ASP:CB	35:6R:51:PRO:CD	2.35	0.72
35:7R:457:GLU:N	35:7R:468:GLY:O	2.20	0.72
45:AB:271:ALA:HB1	45:AB:272:PRO:HA	1.71	0.72
44:AC:247:ALA:HB2	44:AC:357:TYR:OH	1.90	0.72
45:AJ:302:ALA:HB3	45:AJ:377:MET:CE	2.20	0.72
45:AN:398:TYR:O	45:AN:403:MET:HB2	1.89	0.72
44:BA:242:LEU:HD11	44:BA:252:ILE:HG13	1.70	0.72
44:BM:33:ASP:HB3	44:BM:35:GLN:HE22	1.54	0.72
45:BN:52:ASN:ND2	45:BN:123:GLU:OE2	2.22	0.72
45:CB:255:VAL:HA	44:CC:407:TRP:HZ3	1.52	0.72
45:CF:25:SER:CB	45:CF:30:ILE:HB	2.19	0.72
45:CL:322:SER:HB3	44:CM:221:ARG:HE	1.55	0.72
45:CN:101:TRP:CE3	45:CN:187:LEU:HD13	2.24	0.72
44:DA:14:ILE:HD13	44:DA:74:VAL:HB	1.70	0.72
45:DD:31:ASP:HB3	45:DD:32:PRO:CD	2.18	0.72
44:DG:54:SER:HB3	44:DG:64:ARG:NH2	2.05	0.72
44:DK:328:VAL:HG11	44:DK:353:VAL:CG2	2.19	0.72
44:DM:6:SER:O	44:DM:66:VAL:HG12	1.90	0.72
45:EB:54:ALA:CB	45:FB:283:ALA:HB2	2.20	0.72
45:EB:110:ALA:O	45:EB:113:ILE:HG22	1.90	0.72
45:EB:324:LYS:HD3	44:EC:222:PRO:HD2	1.71	0.72
44:EC:430:LYS:HA	44:EC:433:GLU:CD	2.10	0.72
44:EE:205:ASP:OD2	44:EE:304:LYS:N	2.17	0.72
44:EG:10:GLY:O	44:EG:14:ILE:HG13	1.89	0.72
44:EG:276:ILE:HD11	44:EG:280:LYS:O	1.90	0.72
45:EH:412:GLU:O	45:EH:416:ASN:ND2	2.21	0.72
45:EJ:170:VAL:HG13	45:EJ:171:PRO:HD2	1.70	0.72
44:FA:172:TYR:HD2	44:FA:203:MET:HE2	1.55	0.72
44:FA:398:MET:HE3	45:FB:345:ILE:HG13	1.72	0.72
44:FA:425:LEU:O	44:FA:429:GLU:N	2.20	0.72
45:FB:244:GLY:CA	45:FB:354:CYS:HA	2.17	0.72
44:FG:141:VAL:CG2	44:FG:187:SER:HA	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:237:SER:OG	44:FG:320:ARG:NH1	2.23	0.72
45:FH:260:PHE:HB3	45:FH:261:PRO:HD2	1.71	0.72
44:FI:142:GLY:O	44:FI:186:ASN:ND2	2.21	0.72
44:FI:205:ASP:OD2	44:FI:304:LYS:N	2.19	0.72
44:FM:88:HIS:HE1	44:FM:90:GLU:HG2	1.53	0.72
44:GC:68:LEU:HD21	44:GC:118:CYS:CB	2.20	0.72
44:GC:104:ALA:HB2	44:GC:413:MET:SD	2.28	0.72
44:GC:261:PRO:HA	45:GF:394:PHE:CD1	2.25	0.72
45:GF:133:PHE:HD2	45:GF:155:VAL:HG21	1.54	0.72
45:GF:378:PHE:HB3	45:GF:415:MET:CE	2.20	0.72
45:GH:58:ARG:HH22	45:HH:280:GLN:CB	2.03	0.72
44:GK:139:ASN:OD1	44:GK:170:THR:HG22	1.89	0.72
44:GK:221:ARG:HD2	45:GL:322:SER:CB	2.16	0.72
45:GL:60:VAL:HG23	45:GL:84:LEU:O	1.90	0.72
45:HB:230:SER:HA	45:HB:233:MET:SD	2.29	0.72
45:HD:383:GLU:O	45:HD:386:THR:HG22	1.89	0.72
44:HG:157:LEU:HD23	44:HG:166:LYS:HD3	1.71	0.72
44:HI:145:THR:HB	46:HI:501:GTP:O3G	1.89	0.72
45:HJ:6:HIS:NE2	45:HJ:8:GLN:OE1	2.22	0.72
45:HJ:170:VAL:HG22	45:HJ:171:PRO:HD2	1.70	0.72
45:HJ:387:ALA:HA	45:HJ:390:ARG:HE	1.55	0.72
45:HL:183:TYR:HE2	45:HL:394:PHE:HB2	1.53	0.72
45:HL:297:LYS:HA	45:HL:297:LYS:HE2	1.72	0.72
44:HM:314:ALA:HB3	44:HM:380:ASN:CB	2.20	0.72
44:IA:279:GLU:O	44:IA:280:LYS:HD2	1.88	0.72
45:IB:247:ASN:O	45:IB:252:LYS:NZ	2.20	0.72
45:IB:410:GLU:O	45:IB:413:SER:OG	2.05	0.72
45:IF:24:ILE:HA	45:IF:27:GLU:HG2	1.71	0.72
44:IK:434:GLU:O	44:IK:437:ILE:HG12	1.90	0.72
45:JB:11:GLN:HG3	45:JB:72:THR:HG23	1.71	0.72
44:JC:331:SER:O	44:JC:335:ILE:HD12	1.88	0.72
45:JH:178:THR:HB	45:JH:181:GLU:HG3	1.70	0.72
44:JI:276:ILE:HG21	44:JI:281:ALA:HA	1.70	0.72
45:JJ:170:VAL:HG22	45:JJ:171:PRO:CD	2.19	0.72
44:JM:216:ASN:HB3	44:JM:275:ILE:O	1.90	0.72
44:JM:239:THR:CA	44:JM:242:LEU:HD12	2.16	0.72
44:KC:70:LEU:HD11	44:KC:149:LEU:HD21	1.71	0.72
44:KE:69:ASP:HB3	44:KE:75:ILE:HD11	1.71	0.72
45:KF:84:LEU:O	45:KF:86:ARG:NH1	2.21	0.72
45:KF:208:TYR:CE1	45:KF:225:LEU:HD11	2.24	0.72
45:KF:238:CYS:HB2	45:KF:318:ARG:NE	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:168:GLY:O	44:KG:201:ALA:HA	1.90	0.72
44:KI:166:LYS:HE2	44:KI:198:THR:HA	1.70	0.72
44:LA:434:GLU:O	44:LA:437:ILE:HG12	1.89	0.72
44:LG:22:GLU:OE2	44:LG:229:ARG:NE	2.21	0.72
45:LJ:28:HIS:NE2	45:LJ:241:ARG:HD2	2.04	0.72
44:LK:325:PRO:CB	45:LN:208:TYR:OH	2.36	0.72
44:LM:105:ARG:O	44:LM:109:THR:OG1	2.07	0.72
45:MB:245:GLN:O	45:MB:246:LEU:HD23	1.88	0.72
45:MD:242:PHE:CG	45:MD:356:ILE:HD12	2.24	0.72
45:MD:326:VAL:O	45:MD:330:MET:HG2	1.89	0.72
44:MG:291:ILE:HG23	44:MG:292:THR:N	2.05	0.72
45:MH:270:PHE:HD2	45:MH:273:LEU:HD21	1.55	0.72
44:MI:276:ILE:HG23	44:MI:281:ALA:CB	2.18	0.72
44:MK:397:LEU:HD21	45:ML:344:TRP:HA	1.70	0.72
44:NC:88:HIS:HA	44:OC:283:HIS:ND1	2.03	0.72
44:NC:398:MET:HE3	45:ND:345:ILE:HD12	1.71	0.72
45:ND:309:ARG:N	45:ND:372:THR:OG1	2.21	0.72
44:NG:31:GLN:OE1	44:NG:32:PRO:HD2	1.88	0.72
44:NM:174:SER:HB2	44:NM:177:VAL:O	1.89	0.72
44:NM:394:LYS:HA	44:NM:397:LEU:HD12	1.70	0.72
44:OA:224:TYR:CE2	45:OB:246:LEU:HD11	2.23	0.72
45:OB:342:VAL:HG11	45:OB:345:ILE:HD11	1.72	0.72
45:OD:215:LEU:HD21	45:OD:273:LEU:HD12	1.71	0.72
45:OD:414:ASN:O	45:OD:418:LEU:N	2.21	0.72
45:OF:262:ARG:NH2	45:OF:421:GLU:OE1	2.20	0.72
45:OF:341:PHE:HB3	45:OF:348:ASN:ND2	2.03	0.72
44:OG:67:PHE:HB2	44:OG:92:LEU:HD23	1.72	0.72
44:OG:362:VAL:HG21	44:OG:368:LEU:O	1.89	0.72
45:OH:290:THR:HA	45:OH:293:MET:CE	2.19	0.72
45:OL:51:TYR:O	45:OL:62:ARG:NH2	2.22	0.72
45:PB:310:TYR:CD1	45:PB:371:SER:HB2	2.24	0.72
45:PF:262:ARG:NH1	45:PF:421:GLU:OE1	2.22	0.72
45:PJ:12:CYS:HB3	45:PJ:138:SER:HB2	1.71	0.72
45:PJ:329:GLN:O	45:PJ:333:VAL:HG23	1.90	0.72
45:PJ:372:THR:HA	45:PJ:422:TYR:HE2	1.53	0.72
44:QA:203:MET:HE1	44:QA:387:VAL:HG21	1.71	0.72
45:QD:323:THR:HG1	44:QE:210:TYR:HH	1.36	0.72
44:QI:201:ALA:N	44:QI:266:HIS:O	2.20	0.72
44:QI:346:TRP:CD1	45:QJ:391:ARG:HG3	2.24	0.72
45:QN:211:CYS:O	45:QN:216:LYS:N	2.22	0.72
45:RD:183:TYR:OH	45:RD:388:MET:HB3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:326:LYS:HD3	45:RF:212:PHE:CZ	2.25	0.72
44:RM:278:ALA:N	44:RM:369:ALA:HB2	2.05	0.72
44:SA:240:ALA:O	44:SA:244:PHE:HB2	1.89	0.72
45:SB:161:ASP:OD1	45:SB:162:ARG:N	2.23	0.72
45:SF:58:ARG:NH2	45:TF:281:TYR:OH	2.23	0.72
45:SH:21:TRP:CZ3	45:SH:61:PRO:HB3	2.25	0.72
45:SJ:114:ASP:O	45:SJ:118:ASP:N	2.22	0.72
45:SJ:344:TRP:HZ3	44:SK:403:ALA:HB2	1.53	0.72
44:SK:54:SER:HB3	44:SK:64:ARG:NH1	2.04	0.72
44:SK:69:ASP:OD1	44:SK:70:LEU:N	2.19	0.72
44:SM:268:MET:HB2	44:SM:379:SER:C	2.09	0.72
44:SM:271:SER:HB2	44:SM:377:MET:SD	2.30	0.72
45:SN:380:ARG:O	45:SN:384:GLN:N	2.18	0.72
45:TD:273:LEU:O	45:TD:282:ARG:NH1	2.23	0.72
44:TE:145:THR:HG22	46:TE:501:GTP:PG	2.30	0.72
45:TF:304:ASP:O	45:TF:373:ALA:HB1	1.90	0.72
44:TG:347:CYS:HA	45:TH:388:MET:HE1	1.70	0.72
45:TH:30:ILE:HD11	45:TH:47:ILE:CD1	2.19	0.72
44:TK:287:SER:HB3	44:TK:290:GLU:HG2	1.72	0.72
44:TM:121:ARG:HG3	44:TM:124:LYS:HE3	1.72	0.72
44:UA:4:VAL:HG12	44:UA:51:THR:CG2	2.20	0.72
45:UF:187:LEU:HD11	45:UF:408:PHE:CE1	2.24	0.72
44:UG:11:GLN:N	46:UG:501:GTP:O1B	2.18	0.72
44:UI:69:ASP:CB	44:UI:75:ILE:HD11	2.15	0.72
45:UL:87:PRO:HA	45:UL:90:PHE:CD2	2.25	0.72
45:UL:118:ASP:HA	45:UL:121:ARG:HH12	1.55	0.72
45:UN:173:PRO:HG2	45:UN:380:ARG:HD3	1.71	0.72
45:VB:222:TYR:HD1	45:VB:225:LEU:HD21	1.55	0.72
45:VD:248:SER:CA	45:VD:252:LYS:HD2	2.18	0.72
44:VG:215:ARG:NH2	44:VG:299:ALA:O	2.22	0.72
44:VI:68:LEU:HD21	44:VI:118:CYS:HB2	1.70	0.72
45:WH:25:SER:HB3	45:WH:30:ILE:HB	1.70	0.72
45:WH:295:ASP:OD1	45:WH:296:ALA:N	2.23	0.72
44:WI:199:ASP:O	44:WI:266:HIS:HB2	1.90	0.72
44:WI:437:ILE:O	45:WL:391:ARG:NH2	2.22	0.72
45:WN:45:GLU:O	45:WN:46:ARG:HD3	1.88	0.72
7:0F:209:LYS:HD2	44:FC:279:GLU:HG3	1.72	0.72
13:3T:74:ILE:CD1	44:MK:159:VAL:HG23	2.20	0.72
34:4F:119:VAL:CG2	45:IL:359:LYS:HG3	2.19	0.72
34:4F:155:SER:CB	45:IN:359:LYS:HG3	2.19	0.72
37:5D:22:TYR:C	45:KN:186:THR:HG21	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:55:ALA:HB3	44:KK:346:TRP:N	2.05	0.72
38:5H:77:LYS:HG3	38:5H:81:MET:HE3	1.70	0.72
11:5Q:78:MET:HG3	11:5Q:165:ILE:CD1	2.18	0.72
36:5S:126:GLU:HB3	36:5S:130:ARG:NH2	2.05	0.72
35:7R:149:GLN:HB3	35:7R:159:TYR:CD1	2.25	0.72
35:7R:472:GLU:N	45:EB:78:ALA:HB1	2.04	0.72
45:BD:207:LEU:HB3	45:BD:225:LEU:CD2	2.14	0.72
45:CB:7:ILE:HB	45:CB:135:ILE:HD13	1.72	0.72
44:CC:297:GLU:OE2	44:CC:300:ASN:ND2	2.22	0.72
44:CG:11:GLN:HG3	44:CG:74:VAL:CG2	2.17	0.72
44:CG:258:ASN:ND2	44:CG:352:LYS:HD2	2.04	0.72
44:CI:26:LEU:CD2	44:CI:364:PRO:HD3	2.20	0.72
44:CI:174:SER:CB	44:CI:207:GLU:HB2	2.19	0.72
45:CJ:5:VAL:HG12	45:CJ:62:ARG:HH22	1.53	0.72
44:CK:276:ILE:HG23	44:CK:281:ALA:HB2	1.71	0.72
44:DA:174:SER:OG	44:DA:206:ASN:HB3	1.88	0.72
45:DB:119:VAL:HA	45:DB:122:LYS:HG2	1.71	0.72
44:DC:384:ILE:O	44:DC:387:VAL:HG22	1.88	0.72
45:DF:343:GLU:OE2	45:DF:430:ALA:N	2.23	0.72
44:DG:174:SER:HB3	44:DG:207:GLU:HB2	1.72	0.72
44:DG:271:SER:OG	44:DG:301:MET:HA	1.90	0.72
45:DH:206:ALA:O	45:DH:210:ILE:N	2.15	0.72
44:DI:140:SER:O	44:DI:146:GLY:HA3	1.88	0.72
44:EA:241:SER:HB2	44:EA:249:ASN:HA	1.72	0.72
44:EA:310:GLY:N	44:EA:383:ALA:HB2	2.04	0.72
44:EC:21:TRP:CZ2	44:EC:65:ALA:HB2	2.25	0.72
45:ED:100:ASN:ND2	45:ED:401:GLU:OE1	2.23	0.72
44:EE:287:SER:O	44:EE:291:ILE:N	2.23	0.72
45:EF:28:HIS:NE2	45:EF:241:ARG:HD2	2.05	0.72
44:EM:328:VAL:HG11	44:EM:353:VAL:HG21	1.72	0.72
44:FA:101:ASN:HB2	45:FB:255:VAL:HG11	1.70	0.72
44:FC:312:TYR:CE2	44:FC:341:ILE:HG23	2.25	0.72
45:FD:97:ALA:HA	45:FD:103:LYS:HE3	1.69	0.72
45:FF:122:LYS:NZ	45:FF:123:GLU:OE2	2.21	0.72
45:FF:178:THR:N	45:FF:181:GLU:OE2	2.21	0.72
45:FH:49:VAL:HG21	45:FH:241:ARG:HG2	1.72	0.72
45:FH:282:ARG:HH12	45:FH:284:LEU:HD21	1.54	0.72
44:FI:51:THR:HG22	44:FI:52:PHE:CD1	2.25	0.72
44:FI:332:ILE:HG22	44:FI:336:LYS:NZ	2.05	0.72
45:FN:65:LEU:HD22	45:FN:90:PHE:CE1	2.25	0.72
45:FN:186:THR:HG23	45:FN:415:MET:CE	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:256:ASN:CB	45:FN:350:LYS:HD2	2.18	0.72
45:GD:302:ALA:HB3	45:GD:377:MET:HE1	1.71	0.72
44:GE:287:SER:O	44:GE:291:ILE:HG23	1.88	0.72
45:GF:235:GLY:HA2	45:GF:238:CYS:HB3	1.71	0.72
45:GJ:73:MET:CE	45:GJ:92:PHE:HB3	2.19	0.72
45:GN:110:ALA:O	45:GN:113:ILE:HG22	1.90	0.72
45:GN:374:ILE:O	45:GN:377:MET:HG2	1.90	0.72
45:HB:251:ARG:O	45:HB:255:VAL:HG13	1.89	0.72
44:HC:5:ILE:HD11	44:HC:126:ALA:HA	1.72	0.72
44:HC:261:PRO:HA	45:HF:394:PHE:HE1	1.53	0.72
45:HD:317:PHE:HB2	45:HD:353:ILE:HD13	1.71	0.72
44:HE:271:SER:OG	44:HE:301:MET:HA	1.89	0.72
44:HG:189:LEU:HD11	44:HG:418:PHE:CE2	2.24	0.72
45:HH:178:THR:O	45:HH:181:GLU:HG3	1.89	0.72
45:HJ:68:LEU:HD21	45:HJ:147:MET:HE1	1.69	0.72
45:HL:178:THR:HG22	45:HL:180:VAL:H	1.53	0.72
45:HL:271:ALA:HB1	45:HL:272:PRO:HA	1.72	0.72
45:IB:251:ARG:O	45:IB:255:VAL:HG23	1.90	0.72
44:IE:287:SER:O	44:IE:291:ILE:HG23	1.90	0.72
44:IE:318:MET:SD	44:IE:354:GLY:HA3	2.29	0.72
44:IK:10:GLY:HA2	44:IK:145:THR:HG23	1.70	0.72
44:JE:384:ILE:O	44:JE:387:VAL:HG22	1.89	0.72
45:JL:8:GLN:OE1	45:JL:17:GLY:HA3	1.89	0.72
44:KC:276:ILE:CD1	44:KC:280:LYS:HG2	2.12	0.72
45:KF:114:ASP:OD1	45:KF:115:SER:N	2.23	0.72
45:KF:342:VAL:HG13	45:KF:345:ILE:HG22	1.70	0.72
44:KG:14:ILE:HD11	44:KG:69:ASP:HB2	1.71	0.72
44:KG:288:VAL:HA	44:KG:291:ILE:HG12	1.72	0.72
44:LA:261:PRO:HB3	44:LA:346:TRP:HH2	1.54	0.72
45:LB:274:THR:CG2	45:LB:282:ARG:HD3	2.19	0.72
44:LC:237:SER:HA	44:LC:320:ARG:NH2	2.03	0.72
44:LC:269:LEU:HG	44:LC:301:MET:CE	2.20	0.72
45:LD:330:MET:SD	45:LD:349:ILE:HG21	2.30	0.72
45:LN:238:CYS:SG	45:LN:318:ARG:NH2	2.63	0.72
44:MK:205:ASP:OD1	44:MK:303:ALA:HA	1.89	0.72
45:ML:29:GLY:HA3	45:ML:43:GLN:NE2	2.04	0.72
45:MN:35:THR:HG23	45:MN:37:HIS:CE1	2.25	0.72
45:MN:288:GLU:O	45:MN:291:GLN:HG3	1.90	0.72
44:NA:270:SER:O	44:NA:302:MET:HG2	1.88	0.72
44:NC:298:PRO:HA	44:NC:301:MET:HE1	1.69	0.72
45:ND:22:GLU:HG2	45:ND:81:PHE:CG	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ND:31:ASP:OD1	45:ND:35:THR:N	2.22	0.72
45:NJ:116:VAL:HG11	45:NJ:151:LEU:HD21	1.70	0.72
45:NL:130:LEU:O	45:NL:162:ARG:NE	2.22	0.72
45:NN:86:ARG:HG2	45:NN:89:ASN:OD1	1.89	0.72
44:OA:21:TRP:CH2	44:OA:63:PRO:HB3	2.24	0.72
45:OH:135:ILE:HG21	45:OH:152:ILE:HD11	1.70	0.72
44:PA:222:PRO:O	45:PB:322:SER:OG	2.07	0.72
45:PB:25:SER:OG	45:PB:51:TYR:OH	2.07	0.72
45:PB:321:MET:HE1	45:PB:363:MET:HG3	1.72	0.72
44:PC:243:ARG:HG3	44:PC:244:PHE:CE2	2.24	0.72
44:PE:325:PRO:O	44:PE:328:VAL:N	2.23	0.72
45:PH:7:ILE:HB	45:PH:135:ILE:CD1	2.19	0.72
44:PI:295:ALA:HB1	44:PI:377:MET:CE	2.18	0.72
44:PM:34:GLY:O	44:PM:60:LYS:HA	1.90	0.72
45:PN:385:PHE:CE2	45:PN:412:GLU:HB2	2.25	0.72
45:QB:193:VAL:HG23	45:QB:264:HIS:CE1	2.25	0.72
45:QB:246:LEU:HD23	46:QC:501:GTP:H5'	1.72	0.72
44:QC:240:ALA:O	44:QC:244:PHE:N	2.23	0.72
44:QC:284:GLU:HG3	44:QC:286:LEU:CD2	2.19	0.72
44:QC:287:SER:O	44:QC:291:ILE:HG23	1.90	0.72
45:QJ:135:ILE:O	45:QJ:166:THR:HA	1.89	0.72
45:QJ:147:MET:HA	45:QJ:150:LEU:HD12	1.70	0.72
45:QL:198:GLU:OE2	45:QL:254:ALA:HB2	1.89	0.72
44:QM:419:SER:O	44:QM:422:ARG:HD3	1.89	0.72
45:RB:122:LYS:HA	45:RB:125:GLU:OE1	1.90	0.72
45:RB:211:CYS:HA	45:RB:215:LEU:CD1	2.19	0.72
44:RE:265:ILE:HD12	44:RE:435:VAL:HG21	1.71	0.72
44:RI:352:LYS:HA	45:RJ:177:ASP:O	1.90	0.72
45:RL:198:GLU:OE2	45:RL:254:ALA:HB2	1.89	0.72
45:RL:315:ALA:N	45:RL:350:LYS:O	2.17	0.72
44:RM:132:LEU:O	44:RM:164:LYS:NZ	2.22	0.72
44:RM:328:VAL:O	44:RM:332:ILE:N	2.23	0.72
44:SC:135:PHE:HB2	44:SC:166:LYS:HG2	1.71	0.72
45:SH:166:THR:OG1	45:SH:198:GLU:O	2.08	0.72
44:SK:56:THR:HG23	44:SK:58:ALA:H	1.54	0.72
45:SL:42:LEU:O	45:SL:45:GLU:HG3	1.90	0.72
44:TA:360:PRO:HD2	44:TA:371:VAL:O	1.90	0.72
45:TD:286:VAL:HA	45:TD:289:LEU:CD1	2.20	0.72
45:TD:420:SER:HA	45:TD:423:GLN:HG3	1.71	0.72
45:TF:97:ALA:CB	45:TF:143:THR:HB	2.18	0.72
45:TF:207:LEU:HA	45:TF:300:MET:CE	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:319:TYR:N	44:TK:354:GLY:O	2.20	0.72
45:TL:86:ARG:CZ	45:TL:87:PRO:HD2	2.19	0.72
44:TM:216:ASN:O	44:TM:276:ILE:HA	1.89	0.72
44:UA:9:VAL:HG21	44:UA:149:LEU:HB2	1.72	0.72
44:UA:31:GLN:HG3	44:UA:34:GLY:H	1.52	0.72
44:UA:139:ASN:O	44:UA:170:THR:HA	1.90	0.72
44:UC:331:SER:O	44:UC:335:ILE:HG12	1.88	0.72
44:UG:260:VAL:HG13	45:UH:397:TRP:HE1	1.54	0.72
44:UG:262:TYR:HB3	44:UG:263:PRO:HD2	1.71	0.72
45:UJ:311:LEU:HA	45:UJ:342:VAL:CG1	2.20	0.72
45:UL:268:ILE:CG2	45:UL:368:VAL:HG22	2.18	0.72
44:UM:420:GLU:O	44:UM:424:ASP:N	2.18	0.72
45:UN:148:GLY:O	45:UN:152:ILE:HG12	1.89	0.72
44:VA:7:ILE:HA	44:VA:66:VAL:HG12	1.69	0.72
44:VC:262:TYR:CE1	45:VF:393:ALA:HA	2.24	0.72
45:VL:186:THR:HG23	45:VL:415:MET:SD	2.29	0.72
44:VM:145:THR:O	44:VM:149:LEU:HB2	1.88	0.72
45:VN:67:ASP:OD1	45:VN:68:LEU:N	2.23	0.72
44:WA:207:GLU:HA	44:WA:210:TYR:HD2	1.55	0.72
44:WA:209:ILE:O	44:WA:212:ILE:N	2.23	0.72
45:WB:34:GLY:O	45:WB:58:ARG:HA	1.89	0.72
44:WC:38:SER:HA	44:WC:42:ILE:HD12	1.72	0.72
44:WE:294:SER:HA	44:WE:297:GLU:HG3	1.71	0.72
44:WG:98:ASP:OD1	44:WG:99:ALA:N	2.22	0.72
2:0A:6:TYR:HA	35:7R:8:THR:HB	1.70	0.72
20:1J:80:LYS:CE	44:IC:372:MET:HB3	2.18	0.72
21:1K:91:HIS:CE1	40:6F:54:TYR:HB2	2.24	0.72
24:2O:184:GLU:HB3	45:VL:276:ARG:HD2	1.72	0.72
32:3I:272:ARG:NH2	45:FJ:91:VAL:HG12	2.04	0.72
37:5D:58:TYR:HB3	45:KN:183:TYR:CE1	2.24	0.72
38:5H:60:TRP:CH2	45:ON:279:GLN:HA	2.24	0.72
40:6F:43:GLU:HB2	40:6F:56:LEU:CD2	2.17	0.72
44:AA:175:PRO:HB3	44:AA:390:ARG:NE	2.05	0.72
45:AD:6:HIS:HB2	45:AD:134:GLN:HE21	1.54	0.72
45:AL:263:LEU:HD22	45:AL:422:TYR:HD1	1.55	0.72
45:AL:328:GLU:OE2	45:AL:329:GLN:NE2	2.22	0.72
45:BF:65:LEU:HD22	45:BF:90:PHE:HE1	1.54	0.72
44:BG:103:PHE:CD2	44:BG:189:LEU:HD13	2.24	0.72
45:BH:288:GLU:O	45:BH:291:GLN:HG3	1.90	0.72
44:BI:36:MET:CG	44:BI:37:PRO:HD2	2.19	0.72
45:BJ:330:MET:CE	45:BJ:349:ILE:HG21	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:205:ASP:OD1	44:BM:303:ALA:HA	1.90	0.72
44:CA:384:ILE:O	44:CA:387:VAL:HG22	1.89	0.72
45:CB:287:PRO:HD3	45:CB:325:GLU:OE2	1.90	0.72
45:CD:345:ILE:HG23	45:CD:345:ILE:O	1.89	0.72
44:CE:6:SER:O	44:CE:66:VAL:HG12	1.90	0.72
45:CJ:140:GLY:O	45:CJ:184:ASN:ND2	2.22	0.72
45:CJ:342:VAL:HG13	45:CJ:345:ILE:HG22	1.70	0.72
45:CL:229:VAL:HG22	45:CL:300:MET:HE2	1.72	0.72
45:CL:346:PRO:HG2	44:CM:394:LYS:HZ2	1.54	0.72
44:DE:89:PRO:HG3	44:EE:280:LYS:CG	2.19	0.72
45:DF:286:VAL:HG21	44:DG:221:ARG:HH21	1.54	0.72
44:DG:8:HIS:HD2	44:DG:138:PHE:HB2	1.55	0.72
44:DG:405:VAL:HG12	44:DG:409:VAL:HG23	1.71	0.72
45:DJ:260:PHE:HB3	45:DJ:261:PRO:HD2	1.72	0.72
44:DK:434:GLU:O	44:DK:437:ILE:HG12	1.90	0.72
45:ED:54:ALA:HB1	45:FD:282:ARG:O	1.90	0.72
45:EF:250:LEU:O	45:EF:254:ALA:N	2.22	0.72
45:EH:274:THR:OG1	45:EH:278:SER:HB3	1.89	0.72
45:EH:413:SER:O	45:EH:417:ASP:N	2.20	0.72
45:FB:156:ARG:NH1	45:FB:162:ARG:O	2.23	0.72
45:FB:257:LEU:HA	45:FB:312:THR:HG21	1.70	0.72
44:FC:223:THR:OG1	45:FD:323:THR:HG23	1.90	0.72
44:FC:425:LEU:O	44:FC:429:GLU:HG3	1.89	0.72
44:FE:51:THR:HG21	44:FE:243:ARG:HD2	1.72	0.72
45:FH:323:THR:HG23	45:FH:325:GLU:OE2	1.90	0.72
44:FI:401:LYS:C	44:FI:402:ARG:HD3	2.10	0.72
45:FL:267:MET:HE3	45:FL:371:SER:HB3	1.70	0.72
45:FL:286:VAL:HA	45:FL:289:LEU:HD12	1.71	0.72
45:FL:311:LEU:N	45:FL:370:ASN:O	2.23	0.72
45:FN:136:THR:HG22	45:FN:167:PHE:HB2	1.70	0.72
45:FN:169:VAL:HA	45:FN:202:ILE:HB	1.71	0.72
45:FN:178:THR:N	45:FN:181:GLU:OE2	2.20	0.72
44:GC:270:SER:O	44:GC:302:MET:HB3	1.90	0.72
45:GH:207:LEU:HB3	45:GH:225:LEU:HD12	1.70	0.72
45:GH:215:LEU:HD21	45:GH:273:LEU:HD21	1.71	0.72
45:GJ:101:TRP:CZ3	45:GJ:187:LEU:HB3	2.25	0.72
44:GK:316:SER:OG	44:GK:352:LYS:HB3	1.88	0.72
44:GK:318:MET:SD	44:GK:354:GLY:HA3	2.29	0.72
44:GK:328:VAL:O	44:GK:332:ILE:HG12	1.90	0.72
44:HI:161:TYR:HB3	44:HI:164:LYS:HE2	1.69	0.72
44:HK:246:GLY:HA2	44:HK:357:TYR:CE2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:95:GLY:O	44:HM:96:LYS:HE2	1.89	0.72
45:HN:319:GLY:HA3	45:HN:363:MET:HE2	1.71	0.72
44:IA:328:VAL:O	44:IA:332:ILE:HG12	1.88	0.72
45:IF:143:THR:HG22	48:IF:501:GDP:PB	2.30	0.72
45:IL:248:SER:HA	45:IL:252:LYS:HD3	1.72	0.72
44:IM:223:THR:HG23	44:IM:225:THR:H	1.55	0.72
45:IN:303:ALA:H	45:IN:377:MET:HE2	1.55	0.72
45:JB:86:ARG:NH2	45:JB:123:GLU:OE2	2.23	0.72
44:JC:245:ASP:OD1	44:JC:246:GLY:N	2.22	0.72
44:JK:11:GLN:O	44:JK:14:ILE:HG22	1.88	0.72
45:JN:166:THR:OG1	45:JN:199:CYS:HA	1.90	0.72
45:JN:330:MET:HA	45:JN:333:VAL:HG12	1.70	0.72
44:KA:21:TRP:HZ2	44:KA:65:ALA:HB2	1.54	0.72
44:KK:317:MET:HE3	44:KK:377:MET:SD	2.30	0.72
44:LA:9:VAL:HA	44:LA:68:LEU:HB2	1.71	0.72
45:LJ:216:LYS:HB3	45:LJ:275:SER:HB2	1.72	0.72
45:LL:177:ASP:N	45:LL:181:GLU:OE2	2.18	0.72
44:MC:387:VAL:O	44:MC:391:LEU:HD13	1.89	0.72
45:MF:143:THR:HG22	48:MF:502:GDP:O2B	1.89	0.72
44:MG:261:PRO:HA	45:MJ:394:PHE:CE1	2.24	0.72
45:MH:285:THR:HG23	45:MH:287:PRO:HD2	1.71	0.72
44:MI:4:VAL:HG11	44:MI:252:ILE:CD1	2.20	0.72
44:MK:102:ASN:O	44:MK:105:ARG:N	2.22	0.72
45:ML:109:GLY:HA2	45:ML:147:MET:HE2	1.72	0.72
44:MM:286:LEU:N	44:MM:290:GLU:OE2	2.23	0.72
44:NC:384:ILE:O	44:NC:387:VAL:HG22	1.90	0.72
44:NE:236:SER:O	44:NE:240:ALA:HB2	1.90	0.72
45:NF:112:LEU:HD23	45:NF:147:MET:CE	2.19	0.72
44:NM:237:SER:OG	44:NM:320:ARG:NH1	2.22	0.72
45:NN:86:ARG:HE	45:NN:87:PRO:HD2	1.53	0.72
44:OA:332:ILE:HG22	44:OA:336:LYS:NZ	2.04	0.72
44:OC:319:TYR:CZ	44:OC:328:VAL:HG22	2.25	0.72
44:OI:380:ASN:OD1	44:OI:381:SER:N	2.23	0.72
44:PA:269:LEU:HD23	44:PA:379:SER:O	1.89	0.72
44:PE:161:TYR:O	44:PE:164:LYS:NZ	2.21	0.72
44:PE:222:PRO:HD2	45:PF:324:LYS:HD3	1.71	0.72
45:PF:377:MET:O	45:PF:380:ARG:HG2	1.90	0.72
45:PJ:113:ILE:HD13	45:PJ:150:LEU:HD22	1.69	0.72
45:PL:133:PHE:HB2	45:PL:164:MET:SD	2.30	0.72
44:PM:72:PRO:HG3	44:PM:96:LYS:HA	1.70	0.72
44:QA:288:VAL:O	44:QA:292:THR:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:28:HIS:ND1	45:QB:43:GLN:O	2.22	0.72
45:QD:221:THR:HG23	45:QD:224:ASP:H	1.55	0.72
45:RH:314:SER:HB2	45:RH:350:LYS:HB3	1.71	0.72
45:RJ:54:ALA:HA	45:SJ:283:ALA:HB2	1.70	0.72
45:RJ:255:VAL:HA	44:RK:407:TRP:CZ3	2.25	0.72
44:RK:185:TYR:HE2	44:RK:404:PHE:HB2	1.54	0.72
44:RM:136:LEU:HD22	44:RM:167:LEU:HB2	1.71	0.72
45:SB:316:LEU:HA	45:SB:352:SER:HB2	1.71	0.72
44:SC:241:SER:OG	44:SC:250:VAL:O	2.07	0.72
44:SC:352:LYS:NZ	45:SD:178:THR:HG23	2.05	0.72
45:SD:68:LEU:HB2	45:SD:143:THR:OG1	1.90	0.72
45:SD:268:ILE:HG13	45:SD:300:MET:HE2	1.70	0.72
45:SF:289:LEU:HD21	45:SF:363:MET:SD	2.29	0.72
44:SG:148:GLY:O	44:SG:152:LEU:HD23	1.88	0.72
44:SK:276:ILE:CD1	44:SK:281:ALA:HA	2.20	0.72
44:SK:319:TYR:HD2	44:SK:328:VAL:HG22	1.54	0.72
44:TA:270:SER:O	44:TA:302:MET:HG2	1.88	0.72
45:TD:58:ARG:NH1	45:UD:280:GLN:HG2	2.04	0.72
45:TD:324:LYS:HD3	44:TE:222:PRO:CG	2.20	0.72
44:TE:184:PRO:HB3	44:TE:394:LYS:HD2	1.71	0.72
45:TF:289:LEU:HD13	45:TF:365:VAL:CG1	2.20	0.72
45:TH:60:VAL:HG23	45:TH:84:LEU:O	1.90	0.72
45:TH:252:LYS:HG3	44:TI:101:ASN:HD22	1.53	0.72
44:TM:198:THR:OG1	44:TM:266:HIS:NE2	2.20	0.72
45:UH:293:MET:HG3	45:UH:294:PHE:HD1	1.53	0.72
44:UK:205:ASP:OD1	44:UK:303:ALA:HA	1.90	0.72
45:VB:294:PHE:CE2	45:VB:333:VAL:HG11	2.25	0.72
45:VB:314:SER:OG	45:VB:368:VAL:O	2.06	0.72
44:VC:183:GLU:OE1	44:VC:183:GLU:N	2.22	0.72
45:VD:67:ASP:HB3	45:VD:73:MET:CE	2.19	0.72
45:VF:22:GLU:HG2	45:VF:81:PHE:CG	2.24	0.72
44:VG:14:ILE:HG12	44:VG:75:ILE:HD13	1.72	0.72
45:VJ:214:THR:O	45:VJ:275:SER:HB3	1.90	0.72
45:VL:382:ALA:O	45:VL:386:THR:HG23	1.90	0.72
45:WB:101:TRP:CE3	45:WB:187:LEU:HD13	2.24	0.72
44:WC:401:LYS:C	44:WC:402:ARG:HD3	2.10	0.72
44:WI:68:LEU:HD11	44:WI:118:CYS:SG	2.29	0.72
44:WK:17:GLY:O	44:WK:20:CYS:N	2.23	0.72
44:WK:172:TYR:HB3	44:WK:173:PRO:HD2	1.71	0.72
44:WK:257:THR:HA	45:WN:397:TRP:HH2	1.55	0.72
45:WL:257:LEU:HA	45:WL:312:THR:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:60:VAL:HG23	45:WN:84:LEU:O	1.89	0.72
20:1J:271:ASP:N	45:IL:218:THR:HG1	1.87	0.72
10:1N:249:LEU:HD13	45:KJ:92:PHE:CE1	2.23	0.72
17:2B:63:GLN:OE1	44:LK:80:THR:O	2.06	0.72
26:2R:347:LYS:HG2	44:CG:39:ASP:HB2	1.72	0.72
6:3E:47:GLU:CD	35:6R:380:ARG:NH2	2.42	0.72
38:5G:141:CYS:HA	38:5G:144:LEU:CD2	2.20	0.72
38:5H:120:GLU:H	38:5H:122:PHE:HD2	1.38	0.72
41:6G:264:SER:OG	41:6G:266:PRO:HD3	1.90	0.72
45:AB:380:ARG:O	45:AB:384:GLN:HG2	1.90	0.72
45:AL:342:VAL:HG13	45:AL:345:ILE:HG22	1.72	0.72
44:AM:96:LYS:HB3	45:AN:1:MET:CE	2.16	0.72
44:BC:284:GLU:HG3	44:BC:286:LEU:CD2	2.20	0.72
45:BD:248:SER:CA	45:BD:252:LYS:HD2	2.20	0.72
44:BE:407:TRP:HZ3	45:BF:255:VAL:HA	1.53	0.72
44:BI:221:ARG:HH22	45:BJ:321:MET:HB2	1.54	0.72
45:BN:208:TYR:CE1	45:BN:225:LEU:HD11	2.25	0.72
44:CE:271:SER:HB2	44:CE:377:MET:CG	2.20	0.72
45:CH:233:MET:O	45:CH:236:VAL:HG12	1.90	0.72
44:DE:267:PHE:O	44:DE:268:MET:HE2	1.89	0.72
44:DE:276:ILE:HG21	44:DE:281:ALA:HA	1.71	0.72
44:DG:141:VAL:HG11	44:DG:172:TYR:HA	1.72	0.72
45:DJ:138:SER:HA	45:DJ:169:VAL:CG2	2.20	0.72
45:DJ:145:SER:O	45:DJ:149:THR:N	2.17	0.72
45:DL:178:THR:HG22	45:DL:180:VAL:H	1.53	0.72
45:DL:395:LEU:HG	45:DL:399:THR:HG23	1.72	0.72
45:DN:19:LYS:O	45:DN:23:VAL:N	2.19	0.72
44:EA:284:GLU:HG3	44:EA:286:LEU:HD21	1.72	0.72
45:EB:64:ILE:HD11	45:EB:123:GLU:CG	2.18	0.72
44:EC:14:ILE:HD11	44:EC:69:ASP:HB2	1.72	0.72
44:EC:247:ALA:HB1	45:ED:222:TYR:HE2	1.54	0.72
45:EF:178:THR:N	45:EF:181:GLU:OE2	2.21	0.72
45:EJ:325:GLU:HB2	44:EK:221:ARG:NH1	2.05	0.72
44:EK:68:LEU:CD2	44:EK:153:LEU:HD11	2.19	0.72
45:EL:134:GLN:CA	45:EL:165:GLU:HB2	2.20	0.72
45:FB:152:ILE:HG22	45:FB:195:ASN:HB3	1.71	0.72
45:FB:267:MET:O	45:FB:369:GLY:N	2.21	0.72
44:FE:3:GLU:CG	44:FE:129:CYS:HB3	2.19	0.72
44:FG:242:LEU:HD21	44:FG:251:ASP:HA	1.70	0.72
45:FH:173:PRO:CG	45:FH:380:ARG:HD3	2.20	0.72
45:FL:210:ILE:HG23	45:FL:214:THR:HG21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:277:SER:O	44:FM:281:ALA:N	2.22	0.72
45:FN:65:LEU:HD22	45:FN:90:PHE:HE1	1.55	0.72
44:GA:407:TRP:CZ3	45:GB:255:VAL:HA	2.25	0.72
45:GB:234:SER:HA	45:GB:237:THR:HG22	1.72	0.72
44:GE:259:LEU:HD11	44:GE:316:SER:HB3	1.71	0.72
44:GE:422:ARG:NH1	44:GE:422:ARG:O	2.23	0.72
45:GF:173:PRO:HD3	45:GF:380:ARG:HH11	1.54	0.72
45:GJ:73:MET:HE3	45:GJ:92:PHE:HB3	1.71	0.72
45:HB:405:GLU:OE1	45:HB:405:GLU:N	2.18	0.72
44:HC:111:GLY:HA3	44:HC:149:LEU:HD21	1.71	0.72
44:HC:175:PRO:HB2	44:HC:176:GLN:OE1	1.89	0.72
45:HJ:299:MET:HG3	45:HJ:305:PRO:HG3	1.72	0.72
45:HJ:318:ARG:HH11	45:HJ:358:PRO:HG3	1.55	0.72
45:HL:193:VAL:HA	45:HL:264:HIS:HE1	1.55	0.72
44:HM:176:GLN:NE2	44:HM:207:GLU:OE1	2.22	0.72
45:HN:31:ASP:O	45:HN:34:GLY:N	2.23	0.72
45:HN:67:ASP:OD2	45:HN:72:THR:HG21	1.89	0.72
44:IG:12:GLY:N	46:IG:501:GTP:O2A	2.20	0.72
44:IM:55:GLU:HG3	44:IM:57:GLY:H	1.55	0.72
45:JF:344:TRP:CZ3	45:JF:345:ILE:HB	2.25	0.72
44:JG:74:VAL:O	44:JG:77:GLU:HG3	1.88	0.72
44:JG:273:ALA:HB1	44:JG:274:PRO:HA	1.71	0.72
45:JL:285:THR:OG1	45:JL:288:GLU:OE1	2.07	0.72
44:KC:427:ALA:O	44:KC:431:ASP:N	2.21	0.72
44:KE:254:GLU:CA	44:KE:257:THR:HG22	2.20	0.72
45:KF:284:LEU:HD21	45:KF:362:LYS:HB2	1.70	0.72
44:KI:267:PHE:HB3	44:KI:384:ILE:HD13	1.72	0.72
45:KN:173:PRO:CG	45:KN:381:VAL:HA	2.20	0.72
45:LB:7:ILE:HD11	45:LB:135:ILE:HD12	1.70	0.72
44:LC:322:ASP:OD1	44:LC:373:ARG:NH1	2.22	0.72
45:LD:186:THR:O	45:LD:189:VAL:HG12	1.90	0.72
44:LI:363:VAL:CG2	44:LI:364:PRO:HD2	2.20	0.72
45:LN:10:GLY:O	45:LN:14:ASN:N	2.19	0.72
45:MD:212:PHE:CE2	45:MD:220:PRO:HG2	2.25	0.72
44:ME:132:LEU:HD22	44:ME:164:LYS:HG2	1.69	0.72
45:MF:193:VAL:HA	45:MF:264:HIS:NE2	2.04	0.72
44:MI:205:ASP:OD1	44:MI:303:ALA:HA	1.89	0.72
45:MJ:67:ASP:OD1	45:MJ:68:LEU:N	2.23	0.72
44:MK:101:ASN:OD1	45:ML:252:LYS:NZ	2.15	0.72
45:ML:114:ASP:OD1	45:ML:115:SER:N	2.23	0.72
44:NA:69:ASP:OD2	44:NA:71:GLU:N	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:116:VAL:HA	45:NB:119:VAL:HG12	1.71	0.72
45:NB:257:LEU:HD21	45:NB:314:SER:HB3	1.71	0.72
44:NG:95:GLY:O	44:NG:96:LYS:HD3	1.90	0.72
44:NK:26:LEU:HD13	44:NK:364:PRO:HD2	1.69	0.72
46:NK:501:GTP:O2A	45:NL:246:LEU:HD11	1.90	0.72
45:NL:133:PHE:HB2	45:NL:164:MET:HG3	1.72	0.72
44:OA:347:CYS:HA	45:OD:388:MET:CE	2.20	0.72
44:OC:108:TYR:CE2	44:OC:413:MET:HG2	2.25	0.72
44:OC:387:VAL:HA	44:OC:390:ARG:HG2	1.71	0.72
45:OD:287:PRO:O	45:OD:290:THR:OG1	2.02	0.72
45:OF:320:ARG:NH2	45:OF:355:ASP:HA	2.03	0.72
44:OM:139:ASN:O	44:OM:170:THR:HA	1.90	0.72
45:ON:334:GLN:HB2	45:ON:349:ILE:HD13	1.72	0.72
45:PB:21:TRP:CE2	45:PB:61:PRO:HB3	2.25	0.72
44:PE:158:SER:O	44:PE:162:GLY:N	2.23	0.72
44:PI:372:MET:HE3	44:PI:372:MET:HA	1.70	0.72
44:PK:11:GLN:N	46:PK:501:GTP:O2B	2.23	0.72
45:QB:1:MET:O	45:QB:2:ARG:HG2	1.89	0.72
45:QB:156:ARG:NH2	45:QB:160:PRO:O	2.23	0.72
45:QD:167:PHE:CD1	45:QD:200:MET:HB2	2.25	0.72
44:QE:137:VAL:HG12	44:QE:167:LEU:O	1.90	0.72
45:QF:246:LEU:HD11	44:QG:224:TYR:HE2	1.54	0.72
45:QN:211:CYS:CB	45:QN:215:LEU:HD12	2.19	0.72
44:RE:307:PRO:HA	44:RE:383:ALA:CB	2.20	0.72
45:RN:22:GLU:HG2	45:RN:81:PHE:CG	2.25	0.72
45:SB:229:VAL:HG12	45:SB:233:MET:CE	2.19	0.72
44:SE:284:GLU:HG3	44:SE:286:LEU:CD2	2.20	0.72
44:SG:306:ASP:OD2	44:SG:308:ARG:NH2	2.22	0.72
44:SI:17:GLY:HA2	44:SI:20:CYS:SG	2.30	0.72
45:SJ:330:MET:SD	45:SJ:349:ILE:HG21	2.29	0.72
45:SL:3:GLU:CB	45:SL:49:VAL:HA	2.20	0.72
45:SL:149:THR:OG1	45:SL:191:GLN:NE2	2.22	0.72
44:SM:278:ALA:N	44:SM:369:ALA:HB2	2.05	0.72
45:SN:268:ILE:HG22	45:SN:368:VAL:HA	1.72	0.72
44:TA:191:THR:HA	44:TA:194:LEU:HG	1.72	0.72
44:TA:217:LEU:HD13	44:TA:367:ASP:HB3	1.71	0.72
44:TE:332:ILE:HG23	44:TE:351:PHE:CD2	2.24	0.72
45:TH:40:SER:O	45:TH:43:GLN:HB2	1.89	0.72
45:TH:64:ILE:HG12	45:TH:89:ASN:HD22	1.54	0.72
45:TH:132:GLY:HA2	45:TH:162:ARG:HB3	1.71	0.72
45:TJ:54:ALA:HA	45:UJ:283:ALA:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:164:MET:O	45:TJ:197:ASP:HB2	1.90	0.72
45:TN:19:LYS:HZ3	45:TN:227:HIS:HA	1.53	0.72
45:TN:61:PRO:CD	45:TN:84:LEU:HB3	2.20	0.72
45:TN:206:ALA:HA	45:TN:209:ASP:HB3	1.71	0.72
44:UA:321:GLY:O	44:UA:357:TYR:HA	1.90	0.72
45:UB:42:LEU:HA	45:UB:45:GLU:HG3	1.70	0.72
45:UB:100:ASN:ND2	45:UB:401:GLU:OE1	2.23	0.72
45:UB:283:ALA:HB1	45:UB:284:LEU:HD23	1.71	0.72
44:UC:246:GLY:HA3	44:UC:356:ASN:HA	1.71	0.72
45:UD:143:THR:O	45:UD:147:MET:N	2.22	0.72
45:UD:270:PHE:HD1	45:UD:366:THR:HG22	1.54	0.72
44:UK:324:VAL:CG1	44:UK:326:LYS:HG2	2.19	0.72
45:VD:268:ILE:HG22	45:VD:368:VAL:HG22	1.70	0.72
44:VE:257:THR:HG23	45:VH:397:TRP:CZ2	2.24	0.72
44:VI:60:LYS:NZ	44:VI:85:GLN:O	2.21	0.72
44:VK:223:THR:HG22	44:VK:226:ASN:OD1	1.90	0.72
44:WA:257:THR:HA	45:WD:397:TRP:CH2	2.24	0.72
44:WA:271:SER:OG	44:WA:301:MET:HA	1.90	0.72
44:WA:322:ASP:OD1	44:WA:373:ARG:NH1	2.23	0.72
44:WG:181:VAL:HG22	45:WH:256:ASN:ND2	2.04	0.72
45:WL:1:MET:O	45:WL:2:ARG:HG2	1.90	0.72
45:WN:3:GLU:O	45:WN:131:GLN:N	2.21	0.72
9:1H:300:GLU:HG3	44:HC:370:LYS:NZ	2.03	0.71
22:1L:822:THR:HA	35:7R:102:SER:HB2	1.70	0.71
2:2A:138:TRP:CZ3	44:AI:81:GLY:HA2	2.24	0.71
2:3A:95:LEU:HD23	45:MN:32:PRO:HG2	1.69	0.71
37:5D:28:SER:HA	45:KN:393:ALA:HB2	1.72	0.71
37:5D:39:ARG:HB3	44:KK:266:HIS:HA	1.69	0.71
38:5E:90:SER:OG	45:KB:194:GLU:OE2	2.08	0.71
38:5F:214:LEU:O	45:LJ:390:ARG:NH2	2.23	0.71
38:5H:73:ARG:HG3	38:5H:103:ARG:HH12	1.55	0.71
38:5H:119:GLU:HB3	38:5H:122:PHE:CG	2.23	0.71
40:6F:26:TRP:HE3	40:6F:30:ARG:HD3	1.53	0.71
35:6R:383:GLN:OE1	45:DN:83:GLN:HG3	1.88	0.71
35:7R:261:LEU:HB2	35:7R:350:PHE:CE2	2.25	0.71
35:7R:285:THR:CG2	35:7R:309:LEU:HB2	2.20	0.71
44:AC:10:GLY:O	44:AC:14:ILE:HD12	1.90	0.71
44:AC:141:VAL:CG1	44:AC:173:PRO:HD3	2.19	0.71
45:AJ:139:LEU:HD13	45:AJ:168:SER:HB3	1.71	0.71
44:AK:265:ILE:HD12	44:AK:432:TYR:CE1	2.25	0.71
44:AM:22:GLU:HG3	44:AM:83:TYR:OH	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:342:VAL:HG13	45:AN:345:ILE:HG22	1.72	0.71
44:BE:191:THR:HG21	44:BE:425:LEU:HD21	1.71	0.71
45:BF:345:ILE:O	45:BF:345:ILE:HG23	1.90	0.71
45:BL:257:LEU:HD23	45:BL:266:PHE:CE1	2.25	0.71
45:BL:271:ALA:HB1	45:BL:272:PRO:HA	1.72	0.71
45:BL:405:GLU:HA	45:BL:408:PHE:CD2	2.26	0.71
44:BM:317:MET:HE2	44:BM:332:ILE:HD11	1.72	0.71
44:CA:60:LYS:HD3	44:DA:283:HIS:NE2	2.05	0.71
45:CB:318:ARG:HD2	45:CB:358:PRO:HD3	1.72	0.71
44:CE:194:LEU:HB2	44:CE:198:THR:OG1	1.89	0.71
44:CG:145:THR:HG22	46:CG:501:GTP:O2G	1.88	0.71
45:CJ:344:TRP:CZ3	45:CJ:345:ILE:HB	2.25	0.71
45:CL:375:GLN:HG3	45:CL:379:LYS:HZ1	1.55	0.71
45:CN:296:ALA:HA	45:CN:305:PRO:CG	2.20	0.71
45:DB:24:ILE:HA	45:DB:27:GLU:OE1	1.90	0.71
45:DH:134:GLN:HA	45:DH:165:GLU:HB2	1.72	0.71
44:DI:315:CYS:O	44:DI:351:PHE:HA	1.90	0.71
45:DL:139:LEU:CD1	45:DL:168:SER:HB3	2.20	0.71
45:DN:378:PHE:HB3	45:DN:419:VAL:HG22	1.70	0.71
44:EC:268:MET:HB3	44:EC:380:ASN:HB2	1.71	0.71
44:EE:326:LYS:HE2	45:EF:219:THR:HG22	1.72	0.71
44:EG:251:ASP:HB2	44:EG:254:GLU:HG3	1.71	0.71
45:EH:178:THR:N	45:EH:181:GLU:OE2	2.22	0.71
45:EH:259:PRO:HA	44:EI:404:PHE:CE1	2.26	0.71
45:EJ:325:GLU:HA	45:EJ:328:GLU:HG2	1.72	0.71
45:EL:291:GLN:NE2	45:EL:292:GLN:HG3	2.04	0.71
45:EL:323:THR:HB	44:EM:224:TYR:CE2	2.25	0.71
45:EN:215:LEU:HD21	45:EN:273:LEU:HB3	1.72	0.71
45:EN:392:LYS:HG3	45:EN:395:LEU:CD2	2.16	0.71
45:FB:130:LEU:HD23	45:FB:162:ARG:HG3	1.71	0.71
45:FB:274:THR:CG2	45:FB:279:GLN:HA	2.20	0.71
45:FL:139:LEU:HD22	45:FL:170:VAL:HG12	1.72	0.71
45:FN:69:GLU:OE1	45:FN:71:GLY:N	2.23	0.71
44:GC:320:ARG:HD3	44:GC:358:GLN:O	1.89	0.71
44:GE:398:MET:CE	45:GF:345:ILE:HG13	2.20	0.71
45:GF:21:TRP:CZ3	45:GF:61:PRO:HB3	2.25	0.71
44:GI:71:GLU:OE1	44:GI:73:THR:N	2.18	0.71
44:GK:31:GLN:HB3	44:GK:32:PRO:HD2	1.72	0.71
44:GK:103:PHE:HA	44:GK:144:GLY:HA2	1.69	0.71
44:GM:6:SER:O	44:GM:7:ILE:HD13	1.89	0.71
44:GM:392:ASP:HA	44:GM:395:PHE:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:222:PRO:CG	45:HB:324:LYS:HD3	2.20	0.71
44:HE:93:ILE:HG12	44:HE:117:LEU:CD2	2.20	0.71
44:HE:319:TYR:CE2	44:HE:328:VAL:HG22	2.25	0.71
45:HH:52:ASN:OD1	45:HH:62:ARG:NH2	2.23	0.71
44:HI:247:ALA:HB2	44:HI:357:TYR:OH	1.89	0.71
45:HJ:7:ILE:HB	45:HJ:135:ILE:CD1	2.20	0.71
45:HJ:318:ARG:HD3	45:HJ:358:PRO:CG	2.19	0.71
45:HN:101:TRP:HB3	45:HN:398:TYR:CE1	2.25	0.71
45:HN:217:LEU:HD11	45:HN:220:PRO:HG3	1.71	0.71
45:HN:317:PHE:HZ	45:HN:330:MET:HE3	1.55	0.71
44:IE:242:LEU:HD21	44:IE:252:ILE:CG1	2.19	0.71
45:IH:73:MET:O	45:IH:76:VAL:HG12	1.90	0.71
45:IL:61:PRO:CD	45:IL:84:LEU:HB3	2.20	0.71
45:IN:19:LYS:O	45:IN:23:VAL:HG23	1.90	0.71
44:JA:1:MET:SD	45:JD:94:GLN:NE2	2.63	0.71
45:JB:86:ARG:HG2	45:KB:281:TYR:CB	2.20	0.71
45:JN:209:ASP:OD1	45:JN:210:ILE:N	2.22	0.71
44:KA:332:ILE:HD11	44:KA:351:PHE:CG	2.25	0.71
44:KC:143:GLY:HA3	46:KC:501:GTP:O2B	1.88	0.71
45:KD:153:SER:HA	45:KD:195:ASN:OD1	1.90	0.71
45:KF:269:GLY:HA2	45:KF:300:MET:CE	2.20	0.71
45:KJ:266:PHE:CE1	45:KJ:370:ASN:HB2	2.25	0.71
44:KM:49:PHE:HD2	44:KM:53:PHE:HB2	1.54	0.71
44:LE:56:THR:HG23	44:ME:284:GLU:HA	1.71	0.71
44:MG:319:TYR:HB2	44:MG:355:ILE:HD13	1.71	0.71
45:MJ:302:ALA:HB3	45:MJ:377:MET:CE	2.18	0.71
44:MK:188:ILE:HG21	44:MK:395:PHE:CD1	2.25	0.71
45:MN:238:CYS:SG	45:MN:318:ARG:NE	2.63	0.71
44:NG:326:LYS:HD3	45:NJ:220:PRO:CD	2.20	0.71
44:NK:55:GLU:HG3	44:NK:57:GLY:CA	2.20	0.71
44:NK:220:GLU:O	45:NL:324:LYS:HE3	1.90	0.71
44:NM:14:ILE:HG21	44:NM:74:VAL:CG1	2.20	0.71
45:OD:12:CYS:O	45:OD:16:ILE:HD12	1.90	0.71
45:OD:139:LEU:HB3	45:OD:185:ALA:HA	1.72	0.71
45:OD:169:VAL:HA	45:OD:202:ILE:O	1.90	0.71
44:OE:108:TYR:HD2	44:OE:412:GLY:HA3	1.55	0.71
44:OE:351:PHE:HB2	45:OH:176:SER:OG	1.90	0.71
44:OE:407:TRP:NE1	45:OF:255:VAL:HA	2.04	0.71
45:OF:382:ALA:HB2	45:OF:415:MET:HE2	1.71	0.71
45:OH:164:MET:H	45:OH:197:ASP:HB2	1.55	0.71
44:OI:88:HIS:ND1	44:OI:90:GLU:HG3	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:187:LEU:HD11	45:OL:408:PHE:CE1	2.25	0.71
45:ON:293:MET:HE2	45:ON:367:PHE:HB2	1.72	0.71
44:PA:135:PHE:N	44:PA:165:SER:O	2.23	0.71
44:PA:223:THR:HG23	44:PA:225:THR:H	1.54	0.71
44:PA:319:TYR:N	44:PA:354:GLY:O	2.22	0.71
44:PE:212:ILE:HD13	44:PE:215:ARG:HH12	1.54	0.71
44:PE:289:ALA:O	44:PE:292:THR:HG22	1.90	0.71
45:PH:141:GLY:HA3	48:PH:501:GDP:O3A	1.90	0.71
44:PI:352:LYS:HD2	45:PL:177:ASP:O	1.90	0.71
45:PJ:86:ARG:NH1	45:QH:281:TYR:HB2	2.04	0.71
44:QA:265:ILE:HG23	44:QA:432:TYR:HE1	1.54	0.71
45:QF:293:MET:HG3	45:QF:294:PHE:HD1	1.54	0.71
45:QH:112:LEU:HD23	45:QH:112:LEU:O	1.90	0.71
44:QK:98:ASP:OD1	44:QK:99:ALA:N	2.23	0.71
45:QL:314:SER:HB3	45:QL:368:VAL:O	1.90	0.71
44:QM:242:LEU:HG	44:QM:250:VAL:O	1.90	0.71
45:RD:99:ASN:HA	45:RD:142:GLY:HA3	1.72	0.71
45:RF:86:ARG:HH22	45:SF:278:SER:HA	1.55	0.71
45:RH:321:MET:HB2	44:RI:221:ARG:NH2	2.05	0.71
44:RK:316:SER:HB2	44:RK:352:LYS:HB3	1.72	0.71
44:SC:271:SER:O	44:SC:377:MET:HG3	1.90	0.71
45:SD:31:ASP:OD2	45:SD:37:HIS:ND1	2.22	0.71
45:SJ:405:GLU:O	45:SJ:409:THR:HG23	1.89	0.71
45:TD:271:ALA:N	45:TD:365:VAL:O	2.18	0.71
44:TK:76:ASP:OD1	44:TK:79:ARG:NH2	2.23	0.71
44:TM:372:MET:SD	44:TM:373:ARG:NH2	2.62	0.71
45:UF:278:SER:O	45:UF:282:ARG:HG2	1.90	0.71
44:UG:276:ILE:CD1	44:UG:281:ALA:HA	2.19	0.71
44:UI:88:HIS:CE1	44:UI:90:GLU:HG2	2.25	0.71
44:UI:332:ILE:HG22	44:UI:336:LYS:NZ	2.05	0.71
45:UL:137:HIS:O	45:UL:168:SER:HA	1.90	0.71
44:UM:6:SER:N	44:UM:64:ARG:O	2.20	0.71
45:UN:310:TYR:CD1	45:UN:371:SER:HB2	2.25	0.71
45:VB:254:ALA:HA	45:VB:258:ILE:CD1	2.20	0.71
44:VE:135:PHE:HE2	44:VE:157:LEU:HD22	1.54	0.71
44:VE:257:THR:OG1	44:VE:258:ASN:OD1	2.06	0.71
44:VE:397:LEU:O	44:VE:397:LEU:HD23	1.90	0.71
45:VF:232:ALA:HB1	45:VF:268:ILE:HD12	1.72	0.71
45:VH:318:ARG:NE	45:VH:358:PRO:HD3	2.04	0.71
45:VL:222:TYR:O	45:VL:226:ASN:ND2	2.22	0.71
44:VM:171:ILE:HG12	44:VM:204:LEU:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VM:195:LEU:HD12	44:VM:196:GLU:HG2	1.71	0.71
45:VN:64:ILE:HG13	45:VN:89:ASN:ND2	2.05	0.71
45:WD:19:LYS:HB3	45:WD:230:SER:OG	1.90	0.71
44:WE:21:TRP:CH2	44:WE:63:PRO:HB3	2.25	0.71
45:WF:82:GLY:HA2	45:WF:85:PHE:HE1	1.54	0.71
44:WI:11:GLN:HE22	45:WJ:247:ASN:H	1.36	0.71
44:WI:179:THR:O	45:WJ:350:LYS:HA	1.89	0.71
45:WJ:22:GLU:OE2	45:WJ:80:PRO:HG2	1.90	0.71
45:WN:50:TYR:HE2	45:WN:237:THR:HG21	1.54	0.71
45:WN:118:ASP:HA	45:WN:121:ARG:NH2	2.04	0.71
8:1G:144:TYR:HE1	44:KA:278:ALA:HB3	1.54	0.71
9:1H:221:TYR:OH	45:HH:360:GLY:O	2.07	0.71
10:1N:1:MET:HB3	44:II:114:ILE:HD11	1.73	0.71
32:2I:131:ARG:NH2	44:GC:220:GLU:OE1	2.22	0.71
26:3R:385:PHE:CE2	45:EL:217:LEU:HD23	2.24	0.71
15:3V:88:LYS:NZ	45:LB:413:SER:O	2.23	0.71
38:5F:214:LEU:HD21	44:LG:437:ILE:HD11	1.72	0.71
39:5J:116:ASN:ND2	39:5J:116:ASN:O	2.23	0.71
35:5R:522:VAL:HG13	35:5R:523:PHE:CD2	2.24	0.71
41:6G:268:VAL:HG13	44:VA:338:LYS:HB3	1.72	0.71
11:6Q:69:LEU:O	11:6Q:69:LEU:HD23	1.89	0.71
43:8P:229:UNK:O	43:8P:233:UNK:N	2.24	0.71
44:AA:224:TYR:CE2	45:AB:246:LEU:HD11	2.24	0.71
45:AB:248:SER:CA	45:AB:252:LYS:HD2	2.19	0.71
44:AC:51:THR:CG2	44:AC:243:ARG:HD3	2.17	0.71
45:AH:316:LEU:HG	45:AH:352:SER:HB2	1.73	0.71
45:AJ:207:LEU:HB3	45:AJ:225:LEU:CD2	2.20	0.71
44:BE:76:ASP:OD2	45:BF:46:ARG:NH2	2.23	0.71
44:BI:276:ILE:HD13	44:BI:281:ALA:HA	1.71	0.71
45:BN:99:ASN:CA	45:BN:142:GLY:HA3	2.16	0.71
45:CB:10:GLY:C	45:CB:14:ASN:H	1.92	0.71
45:CB:213:ARG:HE	45:CB:297:LYS:HE2	1.54	0.71
45:CD:65:LEU:HD22	45:CD:90:PHE:CE1	2.25	0.71
44:CE:204:LEU:HD13	44:CE:231:ILE:CD1	2.18	0.71
45:CF:257:LEU:HA	45:CF:312:THR:HG21	1.72	0.71
44:CG:432:TYR:HA	44:CG:435:VAL:HG22	1.71	0.71
45:CJ:42:LEU:HA	45:CJ:45:GLU:OE2	1.90	0.71
44:CM:141:VAL:CG2	44:CM:187:SER:HA	2.20	0.71
45:CN:156:ARG:NH1	45:CN:162:ARG:O	2.17	0.71
45:CN:177:ASP:N	45:CN:181:GLU:OE2	2.21	0.71
44:DA:391:LEU:O	44:DA:395:PHE:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:7:ILE:HB	45:DB:135:ILE:CD1	2.19	0.71
45:DD:21:TRP:CH2	45:DD:61:PRO:HB3	2.25	0.71
44:DI:242:LEU:HD21	44:DI:252:ILE:HG13	1.73	0.71
44:DI:301:MET:HG3	44:DI:307:PRO:CD	2.20	0.71
45:DJ:113:ILE:HA	45:DJ:116:VAL:HG12	1.72	0.71
44:DM:36:MET:SD	44:DM:38:SER:N	2.60	0.71
45:EB:169:VAL:HG22	45:EB:202:ILE:CB	2.20	0.71
44:EC:145:THR:HG22	46:EC:501:GTP:O3B	1.89	0.71
45:ED:198:GLU:OE2	45:ED:254:ALA:HB2	1.89	0.71
44:EE:278:ALA:CA	44:EE:369:ALA:HB2	2.20	0.71
44:EI:310:GLY:HA3	44:EI:382:THR:CG2	2.19	0.71
44:FA:145:THR:HG22	46:FA:501:GTP:PG	2.31	0.71
44:FK:313:MET:N	44:FK:380:ASN:O	2.20	0.71
45:FL:318:ARG:HH11	45:FL:358:PRO:HG3	1.55	0.71
45:GJ:17:GLY:HA2	45:GJ:20:PHE:HB3	1.72	0.71
44:GM:100:ALA:HB1	45:GN:252:LYS:CB	2.20	0.71
44:HC:313:MET:HE3	44:HC:382:THR:HG22	1.72	0.71
45:HH:73:MET:O	45:HH:76:VAL:HG12	1.89	0.71
45:HL:171:PRO:O	45:HL:380:ARG:NH2	2.23	0.71
45:HL:341:PHE:CE2	45:HL:349:ILE:HD11	2.25	0.71
45:IB:8:GLN:OE1	45:IB:17:GLY:HA3	1.89	0.71
45:IH:156:ARG:NH1	45:IH:162:ARG:O	2.23	0.71
45:IN:178:THR:O	45:IN:181:GLU:HG3	1.90	0.71
44:JC:250:VAL:HG22	44:JC:352:LYS:NZ	2.05	0.71
44:JK:250:VAL:HG11	44:JK:352:LYS:NZ	2.05	0.71
44:JM:73:THR:HB	45:JN:247:ASN:OD1	1.90	0.71
44:JM:133:GLN:HB3	44:JM:252:ILE:HD13	1.71	0.71
45:JN:325:GLU:CA	45:JN:328:GLU:HG2	2.20	0.71
44:KA:70:LEU:HD13	44:KA:110:ILE:HD12	1.70	0.71
45:KD:140:GLY:O	45:KD:184:ASN:ND2	2.23	0.71
45:KL:10:GLY:HA2	45:KL:143:THR:CG2	2.20	0.71
44:KM:333:ALA:HA	44:KM:336:LYS:NZ	2.05	0.71
45:LB:380:ARG:HA	45:LB:383:GLU:OE2	1.90	0.71
44:LC:145:THR:HG21	46:LC:501:GTP:O3G	1.90	0.71
45:LD:109:GLY:O	45:LD:113:ILE:HG13	1.89	0.71
45:LF:198:GLU:OE2	45:LF:254:ALA:HB2	1.91	0.71
44:LG:88:HIS:CE1	44:LG:90:GLU:HG2	2.25	0.71
44:LG:137:VAL:CG2	44:LG:168:GLY:HA2	2.20	0.71
45:LN:258:ILE:HG12	45:LN:266:PHE:HZ	1.54	0.71
45:MD:67:ASP:OD1	45:MD:68:LEU:N	2.23	0.71
45:MD:318:ARG:NH1	45:MD:358:PRO:HG3	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:103:LYS:HA	45:ML:107:THR:OG1	1.89	0.71
44:MM:224:TYR:HA	44:MM:227:LEU:HD12	1.71	0.71
44:MM:245:ASP:OD1	44:MM:357:TYR:HB2	1.90	0.71
44:MM:316:SER:HB2	44:MM:352:LYS:CE	2.20	0.71
45:MN:163:ILE:HG21	45:MN:251:ARG:HG3	1.73	0.71
44:NA:353:VAL:N	45:ND:177:ASP:OD1	2.22	0.71
44:NC:31:GLN:CG	44:NC:32:PRO:HD2	2.20	0.71
44:NE:242:LEU:HD21	44:NE:252:ILE:HG13	1.70	0.71
44:NE:271:SER:OG	44:NE:302:MET:N	2.21	0.71
45:NF:247:ASN:O	45:NF:252:LYS:NZ	2.22	0.71
45:NH:58:ARG:HH12	45:OH:280:GLN:HE21	1.37	0.71
45:NL:101:TRP:HB3	45:NL:398:TYR:HE1	1.55	0.71
45:OB:269:GLY:O	45:OB:366:THR:HG23	1.89	0.71
44:OC:258:ASN:OD1	45:OF:179:VAL:HG12	1.90	0.71
45:OF:105:HIS:CD2	45:OF:150:LEU:HB2	2.25	0.71
45:OH:226:ASN:O	45:OH:229:VAL:HG12	1.90	0.71
45:OJ:54:ALA:HA	45:PJ:283:ALA:CB	2.16	0.71
44:PA:340:THR:HG23	44:PA:341:ILE:HG13	1.70	0.71
45:PD:299:MET:CG	45:PD:305:PRO:HG3	2.19	0.71
45:PD:420:SER:O	45:PD:423:GLN:HG3	1.90	0.71
44:PI:70:LEU:HD12	44:PI:145:THR:HG22	1.72	0.71
44:PI:288:VAL:HG21	44:PI:319:TYR:CE2	2.25	0.71
45:PL:183:TYR:OH	45:PL:393:ALA:O	2.06	0.71
45:PN:22:GLU:HG2	45:PN:81:PHE:CB	2.20	0.71
45:QD:133:PHE:N	45:QD:163:ILE:O	2.22	0.71
44:QE:49:PHE:O	44:QE:53:PHE:HB2	1.91	0.71
45:QH:146:GLY:O	45:QH:149:THR:HG22	1.90	0.71
44:QI:88:HIS:HB3	44:QI:91:GLN:CB	2.20	0.71
44:QK:248:LEU:HD23	44:QK:353:VAL:HG13	1.72	0.71
45:RB:324:LYS:HG3	44:RC:210:TYR:CE2	2.26	0.71
44:RC:141:VAL:CG1	44:RC:172:TYR:HA	2.19	0.71
44:RG:259:LEU:CB	44:RG:268:MET:HE1	2.14	0.71
45:RJ:77:ARG:NH1	45:RJ:78:ALA:HB2	2.04	0.71
45:RJ:91:VAL:HG21	45:RJ:116:VAL:HG23	1.72	0.71
44:SA:123:ARG:CZ	44:SA:123:ARG:HA	2.20	0.71
45:SB:81:PHE:HB3	45:SB:84:LEU:HD13	1.72	0.71
45:SD:102:ALA:HB2	45:SD:403:MET:CE	2.19	0.71
45:SD:103:LYS:HA	45:SD:107:THR:OG1	1.89	0.71
44:SG:84:ARG:HG3	44:SG:85:GLN:OE1	1.90	0.71
45:SH:320:ARG:HE	45:SH:355:ASP:HB3	1.55	0.71
44:SM:216:ASN:HB3	44:SM:275:ILE:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:319:TYR:O	44:SM:356:ASN:N	2.23	0.71
45:SN:198:GLU:OE2	45:SN:254:ALA:HB2	1.90	0.71
44:TA:372:MET:HG3	44:TA:373:ARG:CG	2.20	0.71
44:TE:257:THR:HA	45:TF:397:TRP:CH2	2.25	0.71
44:TM:138:PHE:CE1	44:TM:169:PHE:HB2	2.24	0.71
44:UA:8:HIS:O	44:UA:68:LEU:N	2.22	0.71
44:UA:11:GLN:HB3	46:UA:501:GTP:O2A	1.91	0.71
44:UC:5:ILE:HG21	44:UC:122:ILE:HD12	1.71	0.71
44:UC:252:ILE:HA	44:UC:255:PHE:CE2	2.25	0.71
45:UD:110:ALA:HA	45:UD:113:ILE:HG22	1.71	0.71
44:UE:88:HIS:CD2	44:VC:283:HIS:HB3	2.25	0.71
45:UF:238:CYS:HB2	45:UF:318:ARG:NH2	2.05	0.71
45:UF:271:ALA:HB1	45:UF:272:PRO:HA	1.70	0.71
44:UI:238:LEU:HD21	44:UI:255:PHE:CE2	2.25	0.71
45:UL:382:ALA:O	45:UL:386:THR:N	2.20	0.71
44:UM:11:GLN:OE1	44:UM:15:GLN:HG3	1.90	0.71
44:UM:150:GLY:O	44:UM:154:LEU:N	2.23	0.71
44:VC:118:CYS:O	44:VC:122:ILE:N	2.22	0.71
44:VC:398:MET:HE1	45:VD:345:ILE:HA	1.70	0.71
45:VD:135:ILE:HB	45:VD:166:THR:HG22	1.69	0.71
45:VD:358:PRO:HG2	45:VD:364:ALA:CB	2.21	0.71
44:VG:93:ILE:HD12	44:VG:93:ILE:H	1.54	0.71
45:VJ:40:SER:OG	45:VJ:43:GLN:NE2	2.16	0.71
45:VL:116:VAL:HA	45:VL:119:VAL:CG1	2.19	0.71
44:VM:13:GLY:HA2	44:VM:16:VAL:HG12	1.72	0.71
44:VM:391:LEU:HA	44:VM:394:LYS:HB2	1.71	0.71
44:WC:6:SER:O	44:WC:7:ILE:HD13	1.89	0.71
44:WC:259:LEU:HD21	44:WC:316:SER:HB3	1.70	0.71
45:WD:343:GLU:OE2	45:WD:430:ALA:N	2.22	0.71
45:WJ:151:LEU:O	45:WJ:155:VAL:HG22	1.90	0.71
44:WK:213:CYS:HA	44:WK:217:LEU:HB2	1.72	0.71
1:6H:295:GLN:OE1	45:FH:361:LEU:N	2.24	0.71
3:0B:288:ILE:CD1	45:KL:280:GLN:HA	2.19	0.71
7:0F:204:PHE:HB2	44:FC:221:ARG:CG	2.18	0.71
22:2L:491:GLN:HA	35:6R:215:LEU:CD1	1.86	0.71
27:2W:240:PHE:HZ	35:6R:15:HIS:CD2	2.06	0.71
26:3R:503:ASP:OD2	44:EK:40:LYS:HA	1.90	0.71
37:5D:19:ARG:HA	45:KN:415:MET:HG3	1.70	0.71
37:5D:47:SER:OG	45:KN:391:ARG:HD2	1.89	0.71
35:5R:33:LEU:O	44:LG:1:MET:HE1	1.90	0.71
35:5R:409:PRO:HG2	35:5R:411:LYS:NZ	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:510:GLU:HB3	44:EM:39:ASP:O	1.89	0.71
35:7R:183:CYS:HB2	35:7R:187:THR:HG21	1.72	0.71
43:8P:246:UNK:O	43:8P:250:UNK:N	2.23	0.71
44:AC:141:VAL:CG2	44:AC:187:SER:HA	2.19	0.71
44:AE:188:ILE:HG22	44:AE:421:ALA:HB1	1.71	0.71
44:AG:271:SER:OG	44:AG:301:MET:HA	1.90	0.71
44:AI:306:ASP:OD1	44:AI:308:ARG:NH1	2.23	0.71
45:AL:186:THR:HA	45:AL:415:MET:HE1	1.71	0.71
45:AL:198:GLU:OE2	45:AL:254:ALA:HB2	1.89	0.71
44:AM:264:ARG:HH22	44:AM:427:ALA:HB1	1.56	0.71
45:AN:133:PHE:H	45:AN:164:MET:HE2	1.55	0.71
44:BA:101:ASN:ND2	45:BB:252:LYS:CG	2.52	0.71
44:BA:174:SER:OG	44:BA:206:ASN:OD1	2.07	0.71
44:BE:247:ALA:HB2	44:BE:357:TYR:OH	1.90	0.71
44:BG:31:GLN:HB3	44:BG:32:PRO:CD	2.20	0.71
44:BG:113:GLU:O	44:BG:114:ILE:HD13	1.90	0.71
44:BG:191:THR:HG23	44:BG:425:LEU:HD21	1.72	0.71
44:BK:175:PRO:CA	44:BK:390:ARG:HH12	2.02	0.71
45:BL:105:HIS:CD2	45:BL:150:LEU:HB2	2.24	0.71
45:BL:113:ILE:HA	45:BL:116:VAL:HG12	1.72	0.71
44:BM:317:MET:CE	44:BM:332:ILE:HD11	2.20	0.71
44:CA:171:ILE:HG23	44:CA:204:LEU:O	1.90	0.71
45:CD:238:CYS:SG	45:CD:318:ARG:NE	2.63	0.71
44:CM:107:HIS:CD2	44:CM:152:LEU:HB2	2.26	0.71
44:DA:269:LEU:HD22	44:DA:381:SER:OG	1.90	0.71
44:DC:151:SER:OG	44:DC:155:GLU:OE2	2.08	0.71
45:DF:25:SER:HA	45:DF:30:ILE:HG12	1.71	0.71
45:DF:42:LEU:HD13	45:DF:45:GLU:OE2	1.91	0.71
44:DG:298:PRO:O	44:DG:301:MET:HG2	1.91	0.71
45:DH:248:SER:OG	45:DH:252:LYS:HD2	1.90	0.71
45:DJ:86:ARG:HD2	45:DJ:87:PRO:HD2	1.71	0.71
44:EA:310:GLY:HA3	44:EA:383:ALA:HB2	1.72	0.71
44:EE:54:SER:HB2	44:EE:64:ARG:NH2	2.04	0.71
44:EE:223:THR:HG23	44:EE:225:THR:HG23	1.72	0.71
44:EE:287:SER:CB	44:EE:290:GLU:HG2	2.15	0.71
44:EE:316:SER:OG	44:EE:378:ILE:O	2.01	0.71
44:EK:279:GLU:O	44:EK:280:LYS:HD2	1.90	0.71
44:EK:326:LYS:HG2	45:EL:220:PRO:HD2	1.70	0.71
45:EL:312:THR:HA	45:EL:348:ASN:HB2	1.71	0.71
45:EL:323:THR:N	44:EM:222:PRO:O	2.15	0.71
45:EN:178:THR:HG22	45:EN:180:VAL:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:270:SER:CB	44:FA:378:ILE:HD13	2.20	0.71
45:FD:274:THR:HB	45:FD:282:ARG:HH11	1.54	0.71
44:FI:32:PRO:HB3	44:FI:83:TYR:HE1	1.53	0.71
45:FJ:12:CYS:HB2	48:FJ:501:GDP:C8	2.26	0.71
44:FK:141:VAL:HG11	44:FK:172:TYR:HD1	1.53	0.71
45:FL:172:SER:OG	45:FL:175:VAL:HG22	1.90	0.71
44:GG:189:LEU:HD11	44:GG:418:PHE:CE1	2.25	0.71
44:GG:262:TYR:OH	45:GJ:391:ARG:O	2.06	0.71
45:GJ:242:PHE:CD2	45:GJ:356:ILE:HB	2.26	0.71
45:GL:222:TYR:HD1	45:GL:225:LEU:HD12	1.55	0.71
45:GN:68:LEU:HG	45:GN:96:GLY:N	2.05	0.71
44:HA:271:SER:HA	44:HA:302:MET:CG	2.19	0.71
45:HH:113:ILE:HD13	45:HH:150:LEU:HD22	1.73	0.71
44:HK:207:GLU:O	44:HK:211:ASP:N	2.23	0.71
44:HK:404:PHE:CE1	45:HL:259:PRO:HA	2.25	0.71
44:HM:98:ASP:O	44:HM:105:ARG:NH1	2.23	0.71
45:IB:229:VAL:O	45:IB:233:MET:N	2.22	0.71
44:IC:89:PRO:HD3	45:JD:281:TYR:CD2	2.25	0.71
44:IC:433:GLU:O	44:IC:437:ILE:HG23	1.91	0.71
45:IJ:19:LYS:HA	45:IJ:22:GLU:HG2	1.71	0.71
44:JA:70:LEU:HD21	44:JA:149:LEU:HD11	1.73	0.71
45:JB:73:MET:O	45:JB:76:VAL:HG12	1.89	0.71
44:JC:330:ALA:O	44:JC:334:THR:HG23	1.91	0.71
44:JG:9:VAL:CG2	44:JG:149:LEU:HD23	2.19	0.71
45:JH:73:MET:HE3	45:JH:92:PHE:HB3	1.71	0.71
44:JI:17:GLY:HA2	44:JI:20:CYS:SG	2.30	0.71
44:JI:84:ARG:HG3	44:JI:85:GLN:HG2	1.72	0.71
45:JN:200:MET:HA	45:JN:266:PHE:O	1.90	0.71
45:KB:286:VAL:HG21	45:KB:325:GLU:HG3	1.72	0.71
45:KB:380:ARG:HD2	45:KB:384:GLN:HE22	1.56	0.71
44:KE:88:HIS:CE1	44:KE:90:GLU:HG2	2.26	0.71
44:KI:194:LEU:O	44:KI:198:THR:HG22	1.90	0.71
44:KK:287:SER:N	44:KK:290:GLU:OE2	2.23	0.71
45:KN:8:GLN:NE2	45:KN:17:GLY:HA3	2.04	0.71
45:KN:21:TRP:CH2	45:KN:61:PRO:HB3	2.25	0.71
45:LD:256:ASN:HD21	45:LD:350:LYS:HB2	1.55	0.71
44:LE:317:MET:CE	44:LE:377:MET:HG3	2.19	0.71
45:LF:105:HIS:HD2	45:LF:150:LEU:HD12	1.56	0.71
45:LF:215:LEU:CD2	45:LF:217:LEU:HD23	2.20	0.71
45:LL:7:ILE:HD13	45:LL:64:ILE:HG13	1.72	0.71
44:LM:311:LYS:O	44:LM:381:SER:HB2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:22:GLU:O	45:MB:26:ASP:N	2.22	0.71
45:MB:101:TRP:HZ3	45:MB:187:LEU:HB3	1.53	0.71
45:MB:303:ALA:H	45:MB:377:MET:HE2	1.55	0.71
45:MD:121:ARG:NH1	45:MD:158:GLU:OE1	2.23	0.71
45:MF:211:CYS:O	45:MF:215:LEU:HB3	1.90	0.71
44:MG:88:HIS:CE1	44:MG:90:GLU:HG2	2.24	0.71
44:MK:22:GLU:HG3	44:MK:83:TYR:OH	1.90	0.71
45:ML:42:LEU:HD12	45:ML:356:ILE:HD11	1.72	0.71
45:ML:131:GLN:HE21	45:ML:250:LEU:HB3	1.55	0.71
45:MN:143:THR:HG22	48:MN:502:GDP:O2B	1.91	0.71
45:ND:150:LEU:O	45:ND:153:SER:OG	2.07	0.71
45:NJ:49:VAL:HG11	45:NJ:241:ARG:CG	2.21	0.71
45:NL:151:LEU:O	45:NL:155:VAL:HG13	1.90	0.71
45:NL:242:PHE:CG	45:NL:356:ILE:HG13	2.25	0.71
45:NL:314:SER:HB3	45:NL:368:VAL:HG13	1.73	0.71
44:NM:275:ILE:HA	44:NM:368:LEU:CD1	2.19	0.71
44:NM:362:VAL:CG2	44:NM:369:ALA:HA	2.19	0.71
44:OA:174:SER:HB2	44:OA:177:VAL:O	1.91	0.71
44:OA:287:SER:HB3	44:OA:290:GLU:HG2	1.71	0.71
45:OF:273:LEU:N	45:OF:292:GLN:OE1	2.19	0.71
44:OG:222:PRO:HD2	45:OH:324:LYS:HD3	1.71	0.71
44:OI:292:THR:HG21	44:OI:331:SER:CB	2.14	0.71
45:ON:329:GLN:HA	45:ON:332:ASN:HD21	1.56	0.71
44:PA:422:ARG:HH12	44:PA:426:ALA:HB2	1.53	0.71
44:PC:163:LYS:O	44:PC:163:LYS:HD2	1.90	0.71
45:PF:67:ASP:OD1	45:PF:68:LEU:N	2.22	0.71
44:PG:64:ARG:NH1	44:PG:129:CYS:SG	2.64	0.71
44:PG:268:MET:HB2	44:PG:379:SER:O	1.90	0.71
45:PJ:52:ASN:OD1	45:PJ:62:ARG:NE	2.23	0.71
44:PK:292:THR:HG21	44:PK:331:SER:HB3	1.72	0.71
45:PN:185:ALA:O	45:PN:189:VAL:HG23	1.91	0.71
44:QC:5:ILE:HD11	44:QC:126:ALA:HA	1.72	0.71
45:QD:328:GLU:O	45:QD:332:ASN:N	2.22	0.71
44:QE:149:LEU:O	44:QE:153:LEU:HG	1.89	0.71
45:QF:47:ILE:HG12	45:QF:51:TYR:HB2	1.70	0.71
44:QK:271:SER:HB2	44:QK:377:MET:HB3	1.71	0.71
45:QL:29:GLY:HA3	45:QL:43:GLN:NE2	2.05	0.71
45:QN:5:VAL:HG11	45:QN:123:GLU:HG2	1.73	0.71
45:QN:377:MET:O	45:QN:380:ARG:HG2	1.90	0.71
44:RC:53:PHE:HB3	44:RC:61:HIS:HB3	1.71	0.71
45:RD:66:MET:SD	45:RD:116:VAL:HG21	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:268:MET:HB3	44:RG:379:SER:O	1.90	0.71
44:RK:34:GLY:O	44:RK:60:LYS:HA	1.89	0.71
45:RL:240:LEU:O	45:RL:240:LEU:HD23	1.90	0.71
45:RL:350:LYS:HA	44:RM:179:THR:O	1.90	0.71
45:SB:22:GLU:HA	45:SB:25:SER:HB2	1.73	0.71
44:SC:141:VAL:CG1	44:SC:172:TYR:HA	2.19	0.71
44:SC:220:GLU:O	44:SC:221:ARG:N	2.22	0.71
44:SC:305:CYS:SG	44:SC:383:ALA:HB1	2.31	0.71
44:SC:328:VAL:O	44:SC:332:ILE:HG12	1.89	0.71
45:SH:287:PRO:HB3	45:SH:329:GLN:NE2	2.05	0.71
45:SJ:313:ALA:HB3	45:SJ:349:ILE:HG12	1.72	0.71
44:SK:237:SER:OG	44:SK:320:ARG:NH1	2.17	0.71
45:SL:372:THR:HA	45:SL:422:TYR:CE2	2.24	0.71
44:SM:66:VAL:HG11	44:SM:122:ILE:HD11	1.72	0.71
45:SN:287:PRO:HA	45:SN:290:THR:HG22	1.73	0.71
45:SN:372:THR:HA	45:SN:422:TYR:CE2	2.22	0.71
44:TE:11:GLN:O	44:TE:15:GLN:N	2.18	0.71
45:TH:171:PRO:CG	45:TH:181:GLU:HB3	2.20	0.71
45:TH:318:ARG:HB2	45:TH:364:ALA:HB3	1.72	0.71
44:TI:56:THR:HG21	44:TI:60:LYS:CG	2.20	0.71
44:TI:325:PRO:HG2	45:TJ:222:TYR:CZ	2.25	0.71
45:TJ:262:ARG:HG2	45:TJ:263:LEU:HD12	1.70	0.71
45:UB:256:ASN:HD21	44:UC:180:ALA:HB1	1.54	0.71
45:UB:330:MET:HE3	45:UB:349:ILE:HG22	1.71	0.71
44:UC:330:ALA:HA	44:UC:333:ALA:HB3	1.72	0.71
45:UD:193:VAL:HG21	45:UD:418:LEU:HD22	1.72	0.71
45:UF:16:ILE:HD13	45:UF:226:ASN:OD1	1.90	0.71
45:UF:318:ARG:HD3	45:UF:358:PRO:CG	2.20	0.71
45:UH:318:ARG:HH11	45:UH:358:PRO:HG3	1.55	0.71
44:UK:119:LEU:HA	44:UK:122:ILE:HG12	1.72	0.71
45:UL:170:VAL:HG22	45:UL:171:PRO:HD2	1.72	0.71
45:UL:325:GLU:HA	45:UL:328:GLU:CG	2.20	0.71
44:UM:252:ILE:HA	44:UM:255:PHE:CE2	2.26	0.71
44:VA:237:SER:HB3	44:VA:318:MET:HE3	1.72	0.71
44:VC:1:MET:CE	45:VF:70:PRO:HG3	2.20	0.71
45:VF:294:PHE:CZ	45:VF:333:VAL:HG11	2.25	0.71
45:VJ:314:SER:O	45:VJ:368:VAL:HG22	1.89	0.71
44:VM:269:LEU:HD12	44:VM:301:MET:SD	2.30	0.71
45:VN:420:SER:HA	45:VN:423:GLN:HG3	1.72	0.71
44:WA:241:SER:OG	44:WA:250:VAL:N	2.16	0.71
44:WC:407:TRP:CZ3	45:WD:255:VAL:HA	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:71:GLU:OE2	44:WE:73:THR:OG1	2.07	0.71
45:WH:139:LEU:HD13	45:WH:168:SER:HB3	1.71	0.71
45:WH:258:ILE:HG13	45:WH:266:PHE:HZ	1.55	0.71
44:WI:395:PHE:CE2	44:WI:422:ARG:HB2	2.26	0.71
1:6H:167:LYS:HE2	45:FB:361:LEU:HD23	1.61	0.71
8:0G:178:LYS:NZ	44:LM:329:ASN:HB2	2.05	0.71
15:0V:96:ASN:HD22	45:LN:261:PRO:HG2	1.56	0.71
20:1J:50:LYS:HD3	45:HD:53:GLU:HB3	1.72	0.71
10:1N:190:PRO:CG	44:KG:42:ILE:HG12	2.19	0.71
25:1P:218:ALA:O	44:TG:370:LYS:HE2	1.89	0.71
26:1R:7:LYS:HE3	45:MF:26:ASP:OD2	1.89	0.71
26:1R:407:PHE:HB2	44:DC:58:ALA:HB3	1.72	0.71
2:2A:120:GLY:N	45:AJ:224:ASP:OD1	2.17	0.71
15:3V:125:MET:HE3	45:LD:386:THR:HB	1.71	0.71
37:5B:126:ILE:O	45:NH:276:ARG:NH1	2.24	0.71
37:5D:79:LEU:HD22	45:NN:355:ASP:OD2	1.90	0.71
37:5D:112:PRO:CG	44:NM:283:HIS:HA	2.19	0.71
38:5F:165:PRO:HD2	38:5F:166:ARG:HH11	1.56	0.71
35:5R:493:GLY:HA3	35:5R:582:TYR:CB	2.19	0.71
11:6Q:48:GLU:O	11:6Q:49:ILE:HD13	1.90	0.71
35:6R:436:GLU:OE1	45:FN:280:GLN:CA	2.38	0.71
35:7R:407:LYS:CA	45:EB:218:THR:HG21	2.21	0.71
45:AF:34:GLY:HA3	45:AF:58:ARG:HB2	1.71	0.71
44:AK:88:HIS:CE1	44:AK:90:GLU:HG2	2.25	0.71
44:BA:287:SER:O	44:BA:291:ILE:HG23	1.90	0.71
45:BD:211:CYS:HB3	45:BD:217:LEU:CD1	2.20	0.71
45:BF:1:MET:O	45:BF:2:ARG:HG2	1.91	0.71
44:BG:210:TYR:HE2	44:BG:227:LEU:HD11	1.55	0.71
44:BG:250:VAL:HG22	44:BG:352:LYS:HE3	1.71	0.71
44:BI:242:LEU:HD11	44:BI:252:ILE:HD11	1.72	0.71
45:CB:97:ALA:HB3	45:CB:143:THR:HA	1.73	0.71
44:CC:13:GLY:HA2	44:CC:16:VAL:HG12	1.72	0.71
44:CC:349:THR:HG23	45:CD:179:VAL:HA	1.70	0.71
44:CE:88:HIS:HB3	44:CE:91:GLN:HG2	1.70	0.71
45:CF:19:LYS:HD2	45:CF:227:HIS:CE1	2.25	0.71
44:CG:185:TYR:O	44:CG:188:ILE:HG22	1.89	0.71
44:CG:268:MET:HB3	44:CG:380:ASN:HB2	1.72	0.71
44:CG:287:SER:O	44:CG:291:ILE:HG12	1.91	0.71
44:CK:6:SER:OG	44:CK:65:ALA:HA	1.90	0.71
45:CL:46:ARG:NH2	44:CM:76:ASP:OD2	2.23	0.71
45:CL:186:THR:HG22	45:CL:415:MET:HE1	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:18:ASN:OD1	44:CM:19:ALA:N	2.23	0.71
44:DC:286:LEU:N	44:DC:290:GLU:OE2	2.23	0.71
45:DF:255:VAL:HA	44:DG:407:TRP:CZ3	2.26	0.71
44:DG:259:LEU:HB3	44:DG:268:MET:HE1	1.70	0.71
45:DJ:378:PHE:CA	45:DJ:381:VAL:HG12	2.20	0.71
44:DM:320:ARG:CB	44:DM:356:ASN:HB3	2.19	0.71
44:EC:326:LYS:HE2	45:ED:212:PHE:HZ	1.53	0.71
45:EH:135:ILE:O	45:EH:167:PHE:N	2.16	0.71
45:EH:286:VAL:CG1	45:EH:287:PRO:HD3	2.21	0.71
45:EJ:376:GLU:HG3	45:EJ:380:ARG:HH21	1.55	0.71
45:EL:146:GLY:O	45:EL:149:THR:HG22	1.89	0.71
45:EL:169:VAL:HA	45:EL:202:ILE:O	1.91	0.71
44:EM:70:LEU:HA	44:EM:95:GLY:HA3	1.72	0.71
45:EN:420:SER:O	45:EN:424:GLN:N	2.23	0.71
45:FB:348:ASN:O	45:FB:349:ILE:HD13	1.89	0.71
45:FF:163:ILE:HD11	45:FF:251:ARG:HG3	1.72	0.71
44:FI:401:LYS:O	44:FI:402:ARG:HD3	1.90	0.71
44:FK:89:PRO:CG	44:GK:280:LYS:HG2	2.18	0.71
45:FN:63:ALA:O	45:FN:89:ASN:ND2	2.23	0.71
45:FN:221:THR:O	45:FN:225:LEU:N	2.21	0.71
44:GG:257:THR:HG22	44:GG:257:THR:O	1.90	0.71
45:GH:58:ARG:HH22	45:HH:280:GLN:HB3	1.53	0.71
45:GH:311:LEU:HD13	45:GH:342:VAL:HG21	1.72	0.71
44:GI:390:ARG:HD2	44:GI:394:LYS:HZ1	1.55	0.71
44:GK:284:GLU:HG3	44:GK:286:LEU:CD2	2.19	0.71
44:GK:324:VAL:HG11	44:GK:326:LYS:NZ	2.05	0.71
45:GL:3:GLU:OE2	45:GL:127:CYS:HB2	1.91	0.71
45:GL:77:ARG:NH1	45:GL:83:GLN:OE1	2.24	0.71
45:HB:217:LEU:CG	45:HB:220:PRO:HG3	2.20	0.71
44:HG:174:SER:HB2	44:HG:177:VAL:O	1.91	0.71
44:IA:136:LEU:CD2	44:IA:167:LEU:HB2	2.19	0.71
45:IB:113:ILE:HA	45:IB:116:VAL:HG12	1.72	0.71
45:IB:312:THR:HG22	45:IB:370:ASN:CB	2.18	0.71
45:IB:323:THR:O	45:IB:326:VAL:N	2.21	0.71
45:ID:49:VAL:HG11	45:ID:241:ARG:HG2	1.73	0.71
45:ID:221:THR:HG23	45:ID:224:ASP:H	1.55	0.71
44:IM:32:PRO:HB3	44:IM:83:TYR:HD1	1.55	0.71
45:JB:7:ILE:O	45:JB:135:ILE:HG23	1.90	0.71
46:JC:501:GTP:O2A	45:JD:246:LEU:HD13	1.90	0.71
44:JI:88:HIS:CE1	44:JI:90:GLU:HG2	2.25	0.71
45:JJ:231:ALA:HB1	45:JJ:270:PHE:CE1	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:55:THR:HG21	45:KL:284:LEU:HD23	1.71	0.71
45:JL:192:LEU:HD21	45:JL:199:CYS:SG	2.30	0.71
45:JN:30:ILE:HD13	45:JN:36:TYR:HA	1.73	0.71
45:JN:165:GLU:OE2	45:JN:250:LEU:HD22	1.89	0.71
44:KC:406:HIS:CG	45:KD:261:PRO:HD3	2.25	0.71
45:KD:161:ASP:O	45:KD:162:ARG:NH1	2.21	0.71
44:KK:56:THR:HG23	44:KK:58:ALA:H	1.55	0.71
45:KN:233:MET:O	45:KN:236:VAL:HG12	1.90	0.71
45:KN:262:ARG:HG3	45:KN:263:LEU:HD12	1.72	0.71
44:LA:60:LYS:HD3	44:MA:283:HIS:CB	2.19	0.71
45:LD:161:ASP:OD2	45:LD:162:ARG:NH2	2.23	0.71
45:LH:11:GLN:N	48:LH:501:GDP:O3B	2.20	0.71
44:LI:320:ARG:HD3	44:LI:360:PRO:HG3	1.73	0.71
45:LJ:241:ARG:HG2	45:LJ:242:PHE:CE1	2.25	0.71
45:LL:97:ALA:HA	45:LL:103:LYS:HE3	1.72	0.71
44:MM:340:THR:HG23	44:MM:341:ILE:HG13	1.70	0.71
45:NB:374:ILE:O	45:NB:377:MET:HE2	1.90	0.71
45:ND:63:ALA:O	45:ND:64:ILE:HD13	1.90	0.71
44:NG:174:SER:CB	44:NG:207:GLU:HG3	2.20	0.71
45:NJ:97:ALA:CB	45:NJ:143:THR:HB	2.20	0.71
45:NL:65:LEU:HB3	45:NL:73:MET:CE	2.20	0.71
45:NL:294:PHE:CD2	45:NL:333:VAL:HG11	2.25	0.71
44:OA:295:ALA:HB1	44:OA:377:MET:CG	2.20	0.71
45:OB:313:ALA:HB1	45:OB:367:PHE:HE1	1.56	0.71
45:OD:274:THR:CG2	45:OD:279:GLN:HG3	2.21	0.71
44:OE:54:SER:HB3	44:OE:64:ARG:HH21	1.54	0.71
44:OI:254:GLU:HG2	45:OL:98:GLY:HA2	1.73	0.71
44:OK:171:ILE:HG23	44:OK:204:LEU:O	1.90	0.71
45:ON:399:THR:HA	45:ON:403:MET:O	1.91	0.71
44:PA:271:SER:N	44:PA:377:MET:SD	2.63	0.71
44:PA:284:GLU:HG3	44:PA:286:LEU:CD2	2.21	0.71
45:PD:130:LEU:HD23	45:PD:131:GLN:N	2.06	0.71
44:PE:9:VAL:HB	44:PE:68:LEU:HB2	1.71	0.71
44:PG:169:PHE:HD1	44:PG:202:VAL:HB	1.55	0.71
45:PL:85:PHE:HB3	45:PL:90:PHE:HE1	1.56	0.71
44:PM:315:CYS:HA	44:PM:379:SER:HA	1.73	0.71
44:QE:247:ALA:HB1	45:QF:222:TYR:HD2	1.56	0.71
45:QH:143:THR:N	48:QH:501:GDP:O1B	2.23	0.71
44:QI:271:SER:OG	44:QI:301:MET:HA	1.91	0.71
45:QJ:150:LEU:O	45:QJ:154:LYS:HE2	1.89	0.71
45:QL:19:LYS:HB3	45:QL:230:SER:OG	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:309:ARG:HD2	45:QL:341:PHE:C	2.09	0.71
45:QN:51:TYR:CE1	45:QN:61:PRO:HG3	2.25	0.71
44:RA:60:LYS:NZ	44:RA:85:GLN:O	2.18	0.71
44:RC:70:LEU:HD23	44:RC:145:THR:OG1	1.90	0.71
44:RC:394:LYS:O	44:RC:397:LEU:HB2	1.90	0.71
44:RE:174:SER:HB2	44:RE:177:VAL:O	1.90	0.71
45:RH:139:LEU:HD13	45:RH:168:SER:HB3	1.72	0.71
44:RI:76:ASP:HA	44:RI:79:ARG:NH1	2.06	0.71
44:RK:268:MET:HG2	44:RK:380:ASN:HA	1.70	0.71
45:RL:403:MET:HA	45:RL:407:GLU:OE2	1.89	0.71
45:SB:398:TYR:HB3	45:SB:403:MET:SD	2.30	0.71
45:SF:324:LYS:HD3	44:SG:222:PRO:HG3	1.72	0.71
45:SH:73:MET:O	45:SH:76:VAL:HG22	1.89	0.71
44:SI:371:VAL:HG22	44:SI:372:MET:H	1.54	0.71
45:SJ:245:GLN:NE2	45:SJ:355:ASP:OD2	2.23	0.71
44:SK:285:GLN:OE1	44:SK:285:GLN:N	2.23	0.71
45:SL:188:SER:HA	45:SL:191:GLN:HE22	1.55	0.71
44:SM:141:VAL:HG11	44:SM:172:TYR:HD1	1.55	0.71
44:TA:11:GLN:HG3	44:TA:74:VAL:HG11	1.72	0.71
45:TD:262:ARG:NH1	45:TD:421:GLU:OE1	2.23	0.71
44:TI:150:GLY:HA2	44:TI:153:LEU:HD12	1.71	0.71
44:TI:268:MET:HB2	44:TI:379:SER:C	2.11	0.71
44:TK:289:ALA:O	44:TK:292:THR:HG22	1.91	0.71
44:TM:123:ARG:NH1	44:TM:127:ASP:OD2	2.23	0.71
45:UB:232:ALA:O	45:UB:236:VAL:HG23	1.90	0.71
45:UD:142:GLY:O	45:UD:145:SER:OG	2.06	0.71
45:UD:325:GLU:HG2	45:UD:328:GLU:OE2	1.91	0.71
44:UE:296:PHE:HE1	44:UE:377:MET:HG3	1.55	0.71
45:UF:70:PRO:CG	45:UF:94:GLN:HA	2.20	0.71
45:UF:174:LYS:HE3	45:UF:175:VAL:HG22	1.72	0.71
45:UH:383:GLU:O	45:UH:386:THR:HG22	1.90	0.71
44:UK:287:SER:HA	44:UK:373:ARG:HH21	1.54	0.71
44:VA:192:HIS:ND1	44:VA:421:ALA:HA	2.05	0.71
44:VA:408:TYR:HB3	44:VA:413:MET:HE2	1.71	0.71
44:VG:394:LYS:HZ3	45:VH:346:PRO:HG2	1.55	0.71
45:VJ:310:TYR:O	45:VJ:342:VAL:HG22	1.90	0.71
44:WA:21:TRP:HZ2	44:WA:65:ALA:HB2	1.53	0.71
45:WB:197:ASP:O	45:WB:198:GLU:HG3	1.90	0.71
44:WC:135:PHE:CE1	44:WC:166:LYS:HG2	2.25	0.71
44:WC:155:GLU:N	44:WC:155:GLU:OE1	2.23	0.71
44:WE:338:LYS:HZ1	44:WE:341:ILE:HD12	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WH:232:ALA:HB1	45:WH:268:ILE:HD12	1.70	0.71
44:WI:34:GLY:O	44:WI:60:LYS:HA	1.90	0.71
44:WI:76:ASP:OD2	45:WJ:46:ARG:NH2	2.23	0.71
44:WM:325:PRO:HG3	44:WM:355:ILE:HD13	1.70	0.71
45:WN:50:TYR:CE2	45:WN:237:THR:HG21	2.25	0.71
45:WN:177:ASP:N	45:WN:181:GLU:OE2	2.19	0.71
3:OB:200:PHE:CD1	44:KI:370:LYS:HE3	2.25	0.71
24:2O:173:GLU:HB3	45:VL:362:LYS:HE3	1.72	0.71
14:2U:441:MET:CE	44:WI:364:PRO:HB3	2.19	0.71
2:3A:61:TYR:OH	45:MN:53:GLU:OE1	2.07	0.71
37:5D:23:LEU:HD23	45:KN:411:ALA:HB3	1.72	0.71
39:5J:19:MET:SD	45:NF:339:SER:HA	2.31	0.71
39:5K:42:ASN:HB3	39:5K:43:PRO:HD3	1.72	0.71
35:5R:474:MET:SD	35:5R:476:HIS:ND1	2.64	0.71
35:5R:536:ARG:HH11	35:5R:609:LEU:HA	1.54	0.71
40:6F:43:GLU:CB	40:6F:56:LEU:HD23	2.16	0.71
41:6G:86:LYS:NZ	44:VI:280:LYS:HE2	2.05	0.71
35:6R:301:PRO:HD2	45:CN:77:ARG:NH2	2.05	0.71
35:7R:115:LYS:CD	35:7R:134:ILE:HD11	2.20	0.71
35:7R:471:LEU:HA	45:EB:78:ALA:O	1.91	0.71
44:AA:332:ILE:HG23	44:AA:351:PHE:CD2	2.26	0.71
44:AC:70:LEU:HD13	44:AC:110:ILE:CD1	2.20	0.71
45:AF:67:ASP:OD2	45:AF:72:THR:HG21	1.90	0.71
44:AI:247:ALA:HB2	44:AI:357:TYR:OH	1.91	0.71
44:AK:231:ILE:O	44:AK:235:ILE:HG12	1.89	0.71
45:AL:16:ILE:CD1	45:AL:229:VAL:HG11	2.19	0.71
44:BA:1:MET:CE	45:BD:94:GLN:HG2	2.20	0.71
44:BA:188:ILE:HD12	44:BA:425:LEU:HD11	1.73	0.71
44:BG:195:LEU:HD12	44:BG:266:HIS:CE1	2.25	0.71
44:BG:254:GLU:HG2	45:BJ:98:GLY:CA	2.15	0.71
44:BI:99:ALA:HB2	44:BI:145:THR:HB	1.72	0.71
45:BJ:275:SER:OG	45:BJ:278:SER:OG	2.02	0.71
44:BK:93:ILE:HG21	44:BK:114:ILE:HD11	1.71	0.71
44:BK:175:PRO:CA	44:BK:390:ARG:HH22	2.03	0.71
44:BK:238:LEU:HA	44:BK:318:MET:HE1	1.72	0.71
44:CI:11:GLN:CG	44:CI:74:VAL:HG11	2.21	0.71
44:CK:392:ASP:OD1	44:CK:422:ARG:NH1	2.23	0.71
44:CM:259:LEU:HD13	44:CM:378:ILE:HG21	1.73	0.71
45:CN:190:HIS:ND1	45:CN:411:ALA:HA	2.04	0.71
44:DA:147:SER:HB2	44:DA:190:SER:CB	2.18	0.71
45:DD:255:VAL:HA	44:DE:407:TRP:CZ3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:178:THR:CG2	45:DL:180:VAL:HG12	2.21	0.71
44:EA:36:MET:CG	44:EA:37:PRO:HD2	2.21	0.71
45:ED:12:CYS:O	45:ED:16:ILE:HG13	1.89	0.71
45:ED:113:ILE:CD1	45:ED:150:LEU:HD22	2.17	0.71
45:ED:377:MET:HA	45:ED:380:ARG:HG2	1.71	0.71
44:EE:188:ILE:HG21	44:EE:422:ARG:NH2	2.04	0.71
45:EH:52:ASN:OD1	45:EH:62:ARG:NH2	2.24	0.71
45:EH:99:ASN:HA	45:EH:142:GLY:H	1.56	0.71
45:EL:2:ARG:NH2	44:EM:73:THR:OG1	2.24	0.71
45:EL:318:ARG:HD3	45:EL:358:PRO:HD3	1.73	0.71
44:EM:275:ILE:HG23	44:EM:368:LEU:HD11	1.71	0.71
45:EN:266:PHE:HD2	45:EN:368:VAL:HG12	1.56	0.71
45:FB:16:ILE:O	45:FB:20:PHE:N	2.17	0.71
45:FB:207:LEU:HD13	45:FB:225:LEU:HB3	1.73	0.71
44:FC:141:VAL:HG11	44:FC:172:TYR:HA	1.73	0.71
45:FJ:34:GLY:O	45:FJ:58:ARG:HA	1.91	0.71
45:FN:169:VAL:HG22	45:FN:202:ILE:CB	2.21	0.71
45:GB:201:VAL:HG22	45:GB:266:PHE:O	1.89	0.71
45:GB:262:ARG:NH1	45:GB:421:GLU:OE1	2.22	0.71
45:GB:299:MET:SD	45:GB:301:CYS:N	2.62	0.71
44:GC:319:TYR:HB2	44:GC:354:GLY:O	1.90	0.71
45:GH:86:ARG:HH11	45:HH:281:TYR:HB2	1.53	0.71
45:GL:1:MET:O	45:GL:2:ARG:HG2	1.90	0.71
45:GN:204:ASN:HA	45:GN:207:LEU:CG	2.21	0.71
44:HE:184:PRO:O	44:HE:188:ILE:HG12	1.91	0.71
45:HH:12:CYS:O	45:HH:16:ILE:HG12	1.91	0.71
44:HI:106:GLY:O	44:HI:149:LEU:HD22	1.89	0.71
44:HI:137:VAL:O	44:HI:168:GLY:HA2	1.91	0.71
45:HL:314:SER:CB	45:HL:350:LYS:HB3	2.20	0.71
44:HM:235:ILE:O	44:HM:238:LEU:HG	1.90	0.71
44:HM:422:ARG:HH12	44:HM:426:ALA:HB2	1.53	0.71
44:IA:141:VAL:CG2	44:IA:187:SER:HA	2.17	0.71
45:IJ:139:LEU:HG	45:IJ:168:SER:HB3	1.73	0.71
45:IL:113:ILE:HD13	45:IL:150:LEU:HD22	1.72	0.71
44:JC:74:VAL:O	44:JC:77:GLU:HG3	1.89	0.71
44:JE:350:GLY:CA	45:JH:179:VAL:HG12	2.19	0.71
44:JE:434:GLU:O	44:JE:437:ILE:HG12	1.91	0.71
44:JG:181:VAL:HG12	45:JH:256:ASN:OD1	1.90	0.71
45:JL:7:ILE:HB	45:JL:135:ILE:CD1	2.18	0.71
44:JM:414:GLU:HB2	44:JM:417:GLU:CG	2.21	0.71
45:JN:9:GLY:HA3	45:JN:66:MET:CG	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:334:THR:O	44:KE:337:THR:HG22	1.91	0.71
45:KF:86:ARG:HE	45:LF:281:TYR:HB3	1.56	0.71
44:KK:129:CYS:HB2	44:KK:132:LEU:HD11	1.71	0.71
44:KM:7:ILE:CB	44:KM:137:VAL:HG12	2.20	0.71
44:LA:257:THR:HG23	44:LA:258:ASN:ND2	2.06	0.71
45:LB:7:ILE:CG2	45:LB:64:ILE:HD11	2.19	0.71
44:LE:11:GLN:HE22	45:LF:246:LEU:HA	1.55	0.71
44:LG:128:ASN:OD1	44:MG:285:GLN:NE2	2.24	0.71
44:LG:407:TRP:CD2	45:LH:255:VAL:HG22	2.24	0.71
45:LJ:413:SER:O	45:LJ:417:ASP:N	2.19	0.71
44:LK:406:HIS:HA	44:LK:409:VAL:HG12	1.73	0.71
45:LN:22:GLU:HG2	45:LN:81:PHE:CD2	2.26	0.71
45:MD:36:TYR:CZ	45:MD:38:GLY:HA3	2.26	0.71
44:MI:141:VAL:CG1	44:MI:172:TYR:HA	2.20	0.71
44:MI:189:LEU:HD11	44:MI:418:PHE:HE1	1.55	0.71
45:MJ:162:ARG:NH2	45:MJ:251:ARG:HH21	1.89	0.71
44:MK:99:ALA:HB3	44:MK:145:THR:HB	1.73	0.71
44:MM:67:PHE:O	44:MM:68:LEU:HD23	1.89	0.71
44:NA:262:TYR:HB3	44:NA:263:PRO:HD2	1.72	0.71
45:NB:19:LYS:O	45:NB:23:VAL:N	2.18	0.71
44:NC:177:VAL:HG12	45:ND:331:LEU:HD22	1.73	0.71
44:NC:289:ALA:O	44:NC:292:THR:HG22	1.89	0.71
45:ND:8:GLN:NE2	45:ND:14:ASN:HA	2.06	0.71
44:NG:188:ILE:HG13	44:NG:425:LEU:HD12	1.71	0.71
44:NM:157:LEU:HB3	44:NM:166:LYS:HE2	1.73	0.71
45:NN:21:TRP:O	45:NN:25:SER:N	2.19	0.71
45:OB:169:VAL:HG22	45:OB:202:ILE:CG2	2.20	0.71
44:OE:183:GLU:O	44:OE:187:SER:N	2.23	0.71
44:OI:17:GLY:HA2	44:OI:20:CYS:HB2	1.70	0.71
44:OI:288:VAL:HA	44:OI:291:ILE:HG12	1.69	0.71
44:OK:254:GLU:HA	44:OK:257:THR:OG1	1.91	0.71
44:OK:271:SER:OG	44:OK:301:MET:HA	1.90	0.71
44:OK:407:TRP:CZ3	45:OL:255:VAL:HA	2.24	0.71
44:PA:104:ALA:HB3	44:PA:411:GLU:HB2	1.71	0.71
45:PB:187:LEU:HD11	45:PB:403:MET:HE1	1.73	0.71
45:PB:207:LEU:CB	45:PB:225:LEU:HD22	2.20	0.71
44:PG:174:SER:HB3	44:PG:207:GLU:HB2	1.72	0.71
45:PH:104:GLY:O	45:PH:147:MET:N	2.23	0.71
44:PI:311:LYS:CD	44:PI:342:GLN:HG3	2.20	0.71
45:PJ:197:ASP:O	45:PJ:264:HIS:HB2	1.89	0.71
45:PN:7:ILE:HB	45:PN:135:ILE:CD1	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:240:ALA:O	44:QA:356:ASN:ND2	2.24	0.71
44:QA:268:MET:CE	44:QA:380:ASN:HB2	2.21	0.71
44:QE:71:GLU:OE1	44:QE:73:THR:N	2.22	0.71
44:QE:352:LYS:HA	45:QF:177:ASP:O	1.91	0.71
45:QJ:248:SER:CA	45:QJ:252:LYS:HD2	2.17	0.71
44:RC:386:GLU:O	44:RC:389:SER:OG	2.08	0.71
45:RD:395:LEU:HG	45:RD:399:THR:HG23	1.70	0.71
45:RF:61:PRO:HD2	45:RF:84:LEU:O	1.89	0.71
45:RF:116:VAL:O	45:RF:119:VAL:HG12	1.89	0.71
45:RF:323:THR:HG21	44:RG:224:TYR:CZ	2.25	0.71
45:RH:286:VAL:CG2	45:RH:287:PRO:HD3	2.20	0.71
44:RI:194:LEU:HD11	44:RI:267:PHE:HZ	1.54	0.71
45:RJ:178:THR:HG22	45:RJ:180:VAL:H	1.55	0.71
44:RK:168:GLY:N	44:RK:200:VAL:O	2.22	0.71
45:RL:323:THR:O	45:RL:326:VAL:N	2.23	0.71
45:RN:316:LEU:HB2	45:RN:366:THR:CB	2.20	0.71
45:SB:246:LEU:HD21	46:SC:501:GTP:H8	1.56	0.71
45:SD:63:ALA:O	45:SD:89:ASN:ND2	2.22	0.71
44:SE:155:GLU:HG2	44:SE:197:HIS:NE2	2.04	0.71
45:SF:86:ARG:HH21	45:SF:87:PRO:CG	2.01	0.71
44:SG:154:LEU:HD13	44:SG:198:THR:OG1	1.89	0.71
44:SI:87:PHE:HB3	44:SI:91:GLN:NE2	2.04	0.71
45:SJ:158:GLU:HB2	45:SJ:159:TYR:CD1	2.26	0.71
44:SK:191:THR:O	44:SK:195:LEU:N	2.23	0.71
45:SN:296:ALA:HA	45:SN:305:PRO:HG3	1.71	0.71
45:TD:40:SER:N	45:TD:43:GLN:OE1	2.22	0.71
45:TD:86:ARG:NE	45:TD:87:PRO:HD2	2.05	0.71
44:TE:89:PRO:HD3	44:UE:283:HIS:ND1	2.05	0.71
44:TE:383:ALA:O	44:TE:386:GLU:HG2	1.91	0.71
45:TL:72:THR:O	45:TL:76:VAL:N	2.22	0.71
45:TL:113:ILE:CD1	45:TL:150:LEU:HD22	2.20	0.71
45:UB:286:VAL:CG1	45:UB:287:PRO:HD3	2.21	0.71
45:UF:19:LYS:HE3	45:UF:226:ASN:CB	2.20	0.71
45:UN:156:ARG:NH1	45:UN:159:TYR:O	2.22	0.71
45:VD:20:PHE:O	45:VD:24:ILE:HD12	1.90	0.71
45:VF:97:ALA:HB2	45:VF:143:THR:HB	1.71	0.71
45:VH:130:LEU:HD11	45:VH:133:PHE:HE1	1.54	0.71
44:VI:318:MET:SD	44:VI:354:GLY:HA3	2.29	0.71
45:VJ:22:GLU:HG2	45:VJ:81:PHE:HB2	1.72	0.71
45:VL:10:GLY:O	45:VL:14:ASN:ND2	2.22	0.71
45:VN:68:LEU:HD23	45:VN:97:ALA:CB	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:233:MET:HA	45:VN:236:VAL:HG23	1.71	0.71
45:VN:267:MET:CE	45:VN:305:PRO:HB3	2.20	0.71
44:WE:187:SER:O	44:WE:190:SER:OG	2.09	0.71
45:WF:312:THR:HG22	45:WF:370:ASN:HB3	1.72	0.71
45:WH:239:CYS:SG	45:WH:248:SER:HB3	2.31	0.71
45:WJ:221:THR:O	45:WJ:225:LEU:HG	1.91	0.71
44:WK:28:HIS:CE1	44:WK:49:PHE:HB3	2.25	0.71
44:WK:325:PRO:HG2	45:WN:222:TYR:CE2	2.25	0.71
44:WM:285:GLN:CG	44:WM:286:LEU:HA	2.19	0.71
45:WN:4:ILE:HG22	45:WN:132:GLY:N	2.05	0.71
1:6H:382:PHE:HE1	44:FK:26:LEU:HD22	1.50	0.71
10:1N:247:GLN:OE1	44:KG:46:ASP:HB3	1.90	0.71
22:2L:870:ARG:CG	45:CJ:357:PRO:HG2	2.21	0.71
28:3C:68:ASN:H	44:LA:84:ARG:HH22	1.38	0.71
35:5R:497:GLN:NE2	35:5R:499:GLY:O	2.23	0.71
11:6Q:29:ILE:HD11	11:6Q:34:ILE:HD12	1.73	0.71
44:AC:140:SER:OG	46:AC:501:GTP:O2A	2.07	0.71
44:AE:93:ILE:HG21	44:AE:117:LEU:HD22	1.72	0.71
44:BA:211:ASP:O	44:BA:214:ARG:N	2.23	0.71
44:BC:89:PRO:HB2	44:CC:280:LYS:HG3	1.71	0.71
45:BD:184:ASN:OD1	45:BD:185:ALA:N	2.24	0.71
45:BD:345:ILE:O	45:BD:345:ILE:HG23	1.90	0.71
44:CA:205:ASP:OD1	44:CA:303:ALA:HA	1.90	0.71
45:CB:36:TYR:CZ	45:CB:44:LEU:HG	2.25	0.71
45:CF:316:LEU:HD13	45:CF:352:SER:HB2	1.71	0.71
45:CH:270:PHE:HD1	45:CH:273:LEU:HD21	1.54	0.71
45:CJ:288:GLU:O	45:CJ:291:GLN:HG3	1.89	0.71
44:CK:287:SER:O	44:CK:291:ILE:HG23	1.91	0.71
44:CM:191:THR:O	44:CM:195:LEU:N	2.23	0.71
45:CN:221:THR:O	45:CN:225:LEU:HG	1.91	0.71
44:DA:22:GLU:HG3	44:DA:83:TYR:CE2	2.26	0.71
44:DE:105:ARG:O	44:DE:110:ILE:HG12	1.89	0.71
44:DG:132:LEU:HD12	44:DG:132:LEU:O	1.89	0.71
45:DH:54:ALA:HA	45:EH:283:ALA:CB	2.19	0.71
44:DI:172:TYR:HB3	44:DI:173:PRO:HD2	1.71	0.71
44:DK:145:THR:HG22	46:DK:501:GTP:O3B	1.89	0.71
45:DL:139:LEU:HD11	45:DL:168:SER:HB3	1.72	0.71
44:DM:171:ILE:HG23	44:DM:204:LEU:O	1.91	0.71
45:DN:136:THR:HA	45:DN:167:PHE:O	1.90	0.71
45:DN:258:ILE:HG23	45:DN:263:LEU:O	1.90	0.71
45:ED:237:THR:HG23	45:ED:241:ARG:HE	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:285:THR:OG1	45:ED:287:PRO:HD2	1.91	0.71
44:EG:7:ILE:CG2	44:EG:137:VAL:HG12	2.19	0.71
45:EL:135:ILE:HG13	45:EL:152:ILE:CD1	2.18	0.71
44:FE:99:ALA:CB	44:FE:145:THR:HB	2.19	0.71
44:FE:252:ILE:HA	44:FE:255:PHE:CD2	2.26	0.71
45:FF:27:GLU:OE1	45:FF:241:ARG:NH1	2.23	0.71
44:FI:141:VAL:HG11	44:FI:172:TYR:HD1	1.53	0.71
45:FN:178:THR:HG22	45:FN:180:VAL:H	1.54	0.71
45:FN:191:GLN:NE2	45:FN:194:GLU:OE1	2.24	0.71
44:GC:155:GLU:HG2	44:GC:197:HIS:CD2	2.24	0.71
45:GF:342:VAL:CG2	45:GF:348:ASN:HB2	2.18	0.71
44:GI:257:THR:HG22	45:GL:397:TRP:CH2	2.24	0.71
44:GI:278:ALA:N	44:GI:369:ALA:HB2	2.05	0.71
44:HA:325:PRO:HB2	45:HD:208:TYR:OH	1.90	0.71
44:HC:384:ILE:O	44:HC:387:VAL:HG22	1.90	0.71
45:HD:248:SER:CB	45:HD:252:LYS:HD2	2.20	0.71
45:HF:287:PRO:HD3	45:HF:325:GLU:OE2	1.91	0.71
44:HK:11:GLN:N	46:HK:501:GTP:O2B	2.23	0.71
44:HK:315:CYS:N	44:HK:350:GLY:O	2.22	0.71
44:HK:384:ILE:O	44:HK:387:VAL:HG22	1.90	0.71
45:HL:309:ARG:N	45:HL:372:THR:OG1	2.23	0.71
44:HM:216:ASN:HB3	44:HM:275:ILE:O	1.91	0.71
44:HM:235:ILE:HA	44:HM:238:LEU:HD21	1.71	0.71
45:IB:135:ILE:HG21	45:IB:152:ILE:HD11	1.72	0.71
45:ID:144:GLY:N	48:ID:502:GDP:O1B	2.21	0.71
45:IH:139:LEU:HD13	45:IH:168:SER:CB	2.21	0.71
44:II:60:LYS:NZ	44:II:62:VAL:HB	2.05	0.71
45:IN:267:MET:CE	45:IN:301:CYS:HB2	2.16	0.71
44:JE:194:LEU:O	44:JE:198:THR:HG22	1.91	0.71
45:JF:105:HIS:CE1	45:JF:150:LEU:HD13	2.26	0.71
45:JF:341:PHE:HB3	45:JF:348:ASN:HD21	1.55	0.71
44:JI:265:ILE:HD12	44:JI:432:TYR:CE1	2.25	0.71
44:JI:332:ILE:HD11	44:JI:351:PHE:CD1	2.26	0.71
45:JJ:105:HIS:CD2	45:JJ:150:LEU:HB2	2.25	0.71
44:KA:326:LYS:HG2	45:KD:220:PRO:HD2	1.73	0.71
44:KC:20:CYS:HA	44:KC:232:ALA:HB1	1.71	0.71
45:KD:52:ASN:OD1	45:KD:53:GLU:N	2.20	0.71
45:KF:66:MET:SD	45:KF:116:VAL:HG21	2.31	0.71
45:KN:108:GLU:O	45:KN:111:GLU:HG2	1.89	0.71
45:LB:136:THR:HA	45:LB:167:PHE:O	1.91	0.71
44:LC:387:VAL:HG12	44:LC:390:ARG:HH21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:318:ARG:HD2	45:LN:358:PRO:HG3	1.73	0.71
44:MA:68:LEU:HD21	44:MA:118:CYS:HB2	1.72	0.71
45:MF:167:PHE:HE2	45:MF:233:MET:HG2	1.53	0.71
44:MK:210:TYR:CE1	45:ML:324:LYS:HB2	2.26	0.71
44:NA:298:PRO:HA	44:NA:301:MET:CE	2.19	0.71
45:NB:238:CYS:HB3	45:NB:318:ARG:HE	1.54	0.71
45:NF:73:MET:HE2	45:NF:90:PHE:CD2	2.24	0.71
45:NH:325:GLU:HA	45:NH:328:GLU:CG	2.19	0.71
44:NI:311:LYS:CD	44:NI:344:VAL:HG22	2.21	0.71
44:OA:222:PRO:CD	45:OB:324:LYS:HD3	2.20	0.71
45:OB:61:PRO:CG	45:OB:84:LEU:HB3	2.19	0.71
44:OE:5:ILE:HB	44:OE:135:PHE:HD1	1.55	0.71
44:OE:262:TYR:HB3	44:OE:263:PRO:HD2	1.73	0.71
44:OG:387:VAL:HG23	44:OG:390:ARG:NH2	2.06	0.71
45:OH:3:GLU:HB2	45:OH:49:VAL:O	1.90	0.71
44:OI:71:GLU:OE1	44:OI:73:THR:OG1	2.08	0.71
45:OL:19:LYS:O	45:OL:23:VAL:N	2.23	0.71
45:OL:199:CYS:HB3	45:OL:265:PHE:CD2	2.25	0.71
44:OM:407:TRP:CH2	45:ON:258:ILE:HB	2.25	0.71
45:ON:116:VAL:HG22	45:ON:120:VAL:CG2	2.21	0.71
44:PC:175:PRO:HG2	44:PC:176:GLN:OE1	1.89	0.71
45:PD:183:TYR:OH	45:PD:393:ALA:O	2.05	0.71
45:PF:24:ILE:CD1	45:PF:230:SER:HB2	2.21	0.71
45:PF:252:LYS:HE2	45:PF:350:LYS:HZ1	1.55	0.71
45:PH:286:VAL:CG1	45:PH:287:PRO:HD3	2.21	0.71
45:PH:372:THR:HA	45:PH:422:TYR:HE2	1.56	0.71
45:PH:404:ASP:OD1	45:PH:407:GLU:HG3	1.90	0.71
44:QC:121:ARG:HG3	44:QC:125:LEU:HG	1.72	0.71
44:QE:251:ASP:O	44:QE:254:GLU:N	2.23	0.71
45:QH:274:THR:HB	45:QH:282:ARG:NH2	2.05	0.71
45:QN:109:GLY:O	45:QN:113:ILE:N	2.23	0.71
44:RA:70:LEU:HD12	44:RA:145:THR:HB	1.73	0.71
45:RD:62:ARG:HB2	45:RD:123:GLU:OE2	1.91	0.71
45:RF:258:ILE:HB	44:RG:407:TRP:CH2	2.25	0.71
45:RH:200:MET:CE	45:RH:200:MET:HA	2.20	0.71
44:RI:276:ILE:HD13	44:RI:281:ALA:HA	1.71	0.71
45:RJ:114:ASP:OD1	45:RJ:115:SER:N	2.22	0.71
44:RK:209:ILE:HG12	44:RK:302:MET:HE1	1.70	0.71
45:RN:25:SER:HA	45:RN:30:ILE:CD1	2.17	0.71
45:RN:215:LEU:HD21	45:RN:273:LEU:HB3	1.73	0.71
44:SA:171:ILE:HD13	46:SA:501:GTP:N2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:12:CYS:O	45:SB:16:ILE:HG12	1.91	0.71
44:SC:87:PHE:HB3	44:SC:92:LEU:HD11	1.72	0.71
44:SC:269:LEU:HD23	44:SC:379:SER:O	1.90	0.71
45:SD:247:ASN:OD1	44:SE:11:GLN:NE2	2.23	0.71
45:SH:101:TRP:HB2	45:SH:184:ASN:CB	2.20	0.71
45:SH:186:THR:HA	45:SH:189:VAL:HG12	1.72	0.71
45:SJ:260:PHE:HA	44:SK:406:HIS:HE2	1.52	0.71
45:SN:202:ILE:HG23	45:SN:207:LEU:HD21	1.73	0.71
45:TD:202:ILE:HD11	45:TD:268:ILE:CG1	2.20	0.71
45:TF:102:ALA:CB	45:TF:403:MET:HE1	2.20	0.71
44:TM:89:PRO:HD3	44:UM:280:LYS:HD2	1.73	0.71
44:TM:257:THR:HG21	45:TN:98:GLY:O	1.91	0.71
44:UA:319:TYR:O	44:UA:356:ASN:N	2.24	0.71
44:UE:320:ARG:HD3	44:UE:360:PRO:HG3	1.72	0.71
44:UE:358:GLN:CD	44:UE:359:PRO:HD2	2.11	0.71
45:UF:163:ILE:HD11	45:UF:250:LEU:HD21	1.71	0.71
45:UF:189:VAL:HB	45:UF:415:MET:HE3	1.73	0.71
44:UG:141:VAL:HG12	44:UG:171:ILE:O	1.91	0.71
44:UI:311:LYS:HD2	44:UI:342:GLN:HG3	1.72	0.71
45:UL:3:GLU:HG2	45:UL:48:ASN:O	1.91	0.71
45:UL:237:THR:HB	45:UL:250:LEU:CD2	2.21	0.71
45:UL:330:MET:SD	45:UL:351:SER:OG	2.49	0.71
44:UM:200:VAL:HG13	44:UM:268:MET:HE1	1.72	0.71
44:VA:387:VAL:HA	44:VA:390:ARG:HG2	1.72	0.71
45:VB:100:ASN:ND2	45:VB:103:LYS:HG2	2.06	0.71
45:VD:52:ASN:HB2	45:VD:62:ARG:CZ	2.21	0.71
45:VD:399:THR:HA	45:VD:403:MET:O	1.90	0.71
44:VE:340:THR:HG23	44:VE:341:ILE:HG12	1.73	0.71
44:VG:76:ASP:OD1	44:VG:79:ARG:NH2	2.24	0.71
45:VL:344:TRP:CZ3	45:VL:345:ILE:HB	2.26	0.71
45:WB:10:GLY:O	45:WB:14:ASN:N	2.21	0.71
45:WB:44:LEU:CD2	45:WB:47:ILE:HD12	2.21	0.71
45:WF:70:PRO:HA	45:WF:73:MET:HE2	1.71	0.71
45:WH:253:LEU:HD21	45:WH:316:LEU:HD11	1.71	0.71
45:WH:267:MET:CE	45:WH:299:MET:HB3	2.20	0.71
44:WI:174:SER:HB3	44:WI:175:PRO:HD2	1.70	0.71
45:WJ:113:ILE:HD13	45:WJ:150:LEU:HD22	1.70	0.71
45:WJ:318:ARG:HH11	45:WJ:358:PRO:HG3	1.56	0.71
44:WK:16:VAL:CG2	44:WK:231:ILE:HD13	2.20	0.71
45:WL:311:LEU:O	45:WL:345:ILE:HD13	1.91	0.71
44:WM:314:ALA:H	44:WM:380:ASN:HB3	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:86:ARG:HB3	45:WN:89:ASN:OD1	1.90	0.71
2:1A:51:LYS:HE2	45:MF:45:GLU:HG2	1.72	0.71
22:1L:825:GLU:OE1	35:7R:101:GLU:HA	1.90	0.71
12:1S:261:LEU:HD13	45:AF:424:GLN:HG3	1.73	0.71
13:1T:127:GLU:HG2	44:AC:337:THR:HG22	1.72	0.71
31:2H:187:LEU:HB2	45:AD:279:GLN:OE1	1.90	0.71
16:3X:99:VAL:HG21	44:MK:372:MET:SD	2.30	0.71
37:5C:75:TYR:CE2	45:NJ:320:ARG:HG3	2.26	0.71
37:5D:26:LYS:HD2	45:KN:398:TYR:HD2	1.52	0.71
38:5G:121:GLU:HB3	44:OI:370:LYS:NZ	2.06	0.71
36:5S:211:ASN:CB	36:5S:217:LEU:HD21	2.16	0.71
41:6G:124:GLU:HA	41:6G:128:LYS:HB2	1.72	0.71
11:6Q:48:GLU:HG3	11:6Q:161:ARG:HG2	1.71	0.71
43:8R:288:UNK:OH	44:PC:278:ALA:O	2.09	0.71
45:AB:268:ILE:HG13	45:AB:300:MET:SD	2.31	0.71
45:AD:330:MET:CE	45:AD:349:ILE:HG12	2.20	0.71
44:AE:283:HIS:CD2	44:ME:60:LYS:HD3	2.25	0.71
45:AF:130:LEU:HD11	45:AF:133:PHE:HE1	1.55	0.71
44:AG:311:LYS:HD2	44:AG:342:GLN:NE2	2.03	0.71
44:AI:291:ILE:HD12	44:AI:375:VAL:HG23	1.73	0.71
45:AN:295:ASP:OD1	45:AN:296:ALA:N	2.24	0.71
44:BA:101:ASN:HD22	45:BB:252:LYS:HG3	1.56	0.71
44:BA:407:TRP:CZ3	45:BB:255:VAL:N	2.58	0.71
44:BC:141:VAL:HG23	44:BC:190:SER:OG	1.90	0.71
45:BD:318:ARG:NH1	45:BD:358:PRO:HG3	2.02	0.71
44:BG:284:GLU:HG3	44:BG:286:LEU:CD1	2.21	0.71
45:BH:203:ASP:OD2	45:BH:302:ALA:N	2.19	0.71
45:BN:201:VAL:HG23	45:BN:301:CYS:SG	2.30	0.71
44:CG:65:ALA:O	44:CG:91:GLN:NE2	2.24	0.71
45:CH:302:ALA:HB3	45:CH:377:MET:HE3	1.73	0.71
44:CI:23:LEU:HD11	44:CI:361:THR:HG23	1.71	0.71
44:CI:71:GLU:OE1	44:CI:73:THR:N	2.20	0.71
45:CJ:139:LEU:CA	45:CJ:145:SER:HB3	2.16	0.71
44:DA:317:MET:HA	44:DA:377:MET:HA	1.73	0.71
45:DB:237:THR:HG23	45:DB:241:ARG:NE	2.04	0.71
45:DB:323:THR:CG2	45:DB:353:ILE:HG12	2.20	0.71
44:DC:30:ILE:HD13	44:DC:37:PRO:HD3	1.73	0.71
44:DE:174:SER:HB2	44:DE:177:VAL:O	1.90	0.71
44:DI:176:GLN:NE2	44:DI:207:GLU:OE2	2.23	0.71
45:DJ:167:PHE:CE2	45:DJ:233:MET:HG2	2.25	0.71
45:DL:309:ARG:NH1	45:DL:342:VAL:HA	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:260:VAL:HB	45:EB:397:TRP:CH2	2.25	0.71
45:EB:320:ARG:O	45:EB:321:MET:HG2	1.91	0.71
44:EE:32:PRO:HG3	44:EE:83:TYR:HE1	1.55	0.71
45:EF:263:LEU:HD22	45:EF:422:TYR:CD1	2.26	0.71
44:EK:89:PRO:HD3	44:FI:283:HIS:ND1	2.05	0.71
44:EM:21:TRP:O	44:EM:25:CYS:N	2.21	0.71
44:EM:319:TYR:CE2	44:EM:328:VAL:HG13	2.25	0.71
44:FA:11:GLN:HG3	44:FA:74:VAL:CG1	2.19	0.71
45:FB:140:GLY:O	45:FB:181:GLU:HG2	1.89	0.71
44:FC:101:ASN:HD21	45:FD:252:LYS:HE2	1.55	0.71
44:FC:223:THR:HB	45:FD:322:SER:HB2	1.71	0.71
45:FD:114:ASP:OD1	45:FD:115:SER:N	2.23	0.71
45:FH:144:GLY:N	48:FH:501:GDP:O1B	2.24	0.71
45:FH:317:PHE:CE2	45:FH:326:VAL:HG21	2.24	0.71
45:FL:116:VAL:HA	45:FL:119:VAL:HG12	1.72	0.71
44:FM:51:THR:O	44:FM:64:ARG:NH2	2.24	0.71
45:FN:86:ARG:HB3	45:FN:89:ASN:CG	2.11	0.71
45:FN:236:VAL:HA	45:FN:316:LEU:CD2	2.21	0.71
44:GA:226:ASN:HA	44:GA:229:ARG:HD2	1.72	0.71
44:GC:121:ARG:HD3	44:GC:125:LEU:CD2	2.20	0.71
44:GC:421:ALA:O	44:GC:425:LEU:N	2.21	0.71
45:GD:144:GLY:O	45:GD:148:GLY:N	2.24	0.71
45:GD:312:THR:O	45:GD:370:ASN:N	2.21	0.71
45:GF:175:VAL:HG22	45:GF:205:GLU:CG	2.20	0.71
44:GG:66:VAL:HG13	44:GG:125:LEU:HD11	1.73	0.71
45:GH:343:GLU:OE2	45:GH:430:ALA:N	2.23	0.71
45:GJ:376:GLU:HG3	45:GJ:380:ARG:HH21	1.55	0.71
44:GK:156:ARG:HG3	44:GK:160:ASP:OD2	1.91	0.71
45:HF:331:LEU:O	45:HF:334:GLN:HG2	1.90	0.71
44:HI:319:TYR:HD1	44:HI:323:VAL:HG11	1.55	0.71
45:HJ:387:ALA:O	45:HJ:390:ARG:HG2	1.90	0.71
44:HK:176:GLN:OE1	44:HK:176:GLN:N	2.24	0.71
44:IG:20:CYS:HA	44:IG:232:ALA:HB1	1.72	0.71
44:IG:237:SER:HB3	44:IG:376:CYS:SG	2.31	0.71
45:IL:256:ASN:O	45:IL:257:LEU:HD23	1.90	0.71
45:IN:387:ALA:O	45:IN:390:ARG:HG2	1.91	0.71
44:JA:103:PHE:HE2	44:JA:148:GLY:HA2	1.55	0.71
44:JC:393:HIS:NE2	44:JC:397:LEU:HD11	2.06	0.71
45:JD:213:ARG:NH1	45:JD:214:THR:OG1	2.24	0.71
44:JE:167:LEU:CD1	44:JE:252:ILE:HD11	2.21	0.71
45:JF:243:PRO:HB2	45:JF:355:ASP:OD2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:320:ARG:HG3	45:JL:320:ARG:HH11	1.56	0.71
44:KE:195:LEU:HD22	44:KE:428:LEU:HD11	1.73	0.71
45:KH:201:VAL:HG11	45:KH:377:MET:HE1	1.72	0.71
45:KJ:172:SER:HB2	45:KJ:174:LYS:CE	2.21	0.71
44:KM:195:LEU:HD21	44:KM:264:ARG:NH2	2.06	0.71
44:LA:93:ILE:HG22	44:LA:114:ILE:HD11	1.71	0.71
44:LA:220:GLU:O	44:LA:221:ARG:HD3	1.91	0.71
45:LB:49:VAL:HG21	45:LB:241:ARG:HG2	1.72	0.71
44:LC:383:ALA:O	44:LC:386:GLU:HG2	1.90	0.71
44:LI:212:ILE:HD11	44:LI:275:ILE:HG21	1.72	0.71
44:LI:265:ILE:HD12	44:LI:432:TYR:HE1	1.55	0.71
45:LN:7:ILE:HD12	45:LN:151:LEU:CD2	2.21	0.71
44:MA:141:VAL:HG11	44:MA:172:TYR:HA	1.72	0.71
44:MA:325:PRO:HG2	45:MD:222:TYR:CE2	2.26	0.71
44:MC:22:GLU:HG3	44:MC:83:TYR:OH	1.91	0.71
45:MD:67:ASP:OD2	45:MD:72:THR:HG21	1.90	0.71
45:MF:309:ARG:H	45:MF:372:THR:HG22	1.56	0.71
45:MH:193:VAL:HA	45:MH:264:HIS:CE1	2.26	0.71
44:MI:212:ILE:HD11	44:MI:300:ASN:HA	1.72	0.71
44:MI:298:PRO:HG2	44:MI:308:ARG:HH21	1.54	0.71
45:MJ:193:VAL:HA	45:MJ:264:HIS:HE1	1.56	0.71
45:MJ:304:ASP:OD1	45:MJ:306:ARG:HG2	1.89	0.71
44:MK:286:LEU:N	44:MK:290:GLU:OE2	2.23	0.71
45:ML:30:ILE:HD13	45:ML:51:TYR:HE2	1.54	0.71
45:ML:214:THR:HG23	45:ML:215:LEU:CD1	2.17	0.71
45:ML:299:MET:HE1	45:ML:367:PHE:CE2	2.26	0.71
45:MN:60:VAL:HB	45:MN:86:ARG:CZ	2.19	0.71
44:NE:254:GLU:CG	45:NH:98:GLY:HA2	2.18	0.71
45:NF:61:PRO:CG	45:NF:84:LEU:HB3	2.21	0.71
45:NF:117:LEU:HA	45:NF:120:VAL:HG12	1.73	0.71
44:NG:404:PHE:HE2	45:NH:259:PRO:HA	1.55	0.71
45:NH:166:THR:HG21	45:NH:192:LEU:HD11	1.70	0.71
45:NH:345:ILE:HG23	45:NH:348:ASN:HB3	1.71	0.71
44:NM:105:ARG:HG3	45:NN:251:ARG:NH2	2.05	0.71
45:NN:256:ASN:HB2	45:NN:350:LYS:HD2	1.72	0.71
45:OB:372:THR:HG21	45:OB:426:GLN:HB2	1.73	0.71
44:OI:8:HIS:HD2	44:OI:138:PHE:HB2	1.55	0.71
45:OJ:68:LEU:HD12	45:OJ:143:THR:OG1	1.90	0.71
45:OJ:87:PRO:HD2	45:PJ:281:TYR:CD2	2.26	0.71
44:OK:387:VAL:HA	44:OK:390:ARG:HG2	1.72	0.71
44:PA:242:LEU:HD11	44:PA:252:ILE:HD11	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PB:288:GLU:O	45:PB:291:GLN:HG3	1.91	0.71
45:PD:131:GLN:HE21	45:PD:250:LEU:HB2	1.53	0.71
45:PD:399:THR:HA	45:PD:403:MET:O	1.90	0.71
45:PF:73:MET:O	45:PF:76:VAL:HG12	1.89	0.71
44:PG:11:GLN:NE2	45:PH:247:ASN:OD1	2.24	0.71
44:PI:171:ILE:HD13	44:PI:204:LEU:HB2	1.73	0.71
44:PI:434:GLU:O	44:PI:437:ILE:HG12	1.91	0.71
45:PN:86:ARG:NE	45:PN:87:PRO:HD2	2.06	0.71
45:PN:312:THR:HA	45:PN:348:ASN:HB2	1.73	0.71
45:QB:210:ILE:O	45:QB:214:THR:OG1	2.05	0.71
44:QC:191:THR:O	44:QC:195:LEU:N	2.23	0.71
45:QN:113:ILE:CD1	45:QN:150:LEU:HD22	2.18	0.71
44:RA:254:GLU:HG2	45:RB:98:GLY:CA	2.17	0.71
44:RC:233:GLN:O	44:RC:237:SER:N	2.20	0.71
45:RD:131:GLN:O	45:RD:163:ILE:HG12	1.89	0.71
45:RD:322:SER:OG	44:RE:221:ARG:NE	2.23	0.71
44:RE:105:ARG:HB3	44:RE:110:ILE:CD1	2.20	0.71
45:RF:139:LEU:CD1	45:RF:168:SER:HB3	2.20	0.71
45:RF:255:VAL:HA	44:RG:407:TRP:HZ3	1.56	0.71
44:RI:209:ILE:HG12	44:RI:302:MET:HE1	1.70	0.71
45:RJ:255:VAL:HA	44:RK:407:TRP:HZ3	1.56	0.71
45:SD:239:CYS:SG	45:SD:248:SER:N	2.64	0.71
45:SF:172:SER:OG	45:SF:205:GLU:HB2	1.91	0.71
44:SK:170:THR:N	44:SK:202:VAL:O	2.23	0.71
44:SM:398:MET:HB3	44:SM:403:ALA:HB3	1.71	0.71
44:TA:248:LEU:HB3	44:TA:355:ILE:N	2.06	0.71
44:TA:315:CYS:O	44:TA:351:PHE:HA	1.91	0.71
45:TB:318:ARG:HD3	45:TB:358:PRO:HD3	1.72	0.71
44:TC:292:THR:HG21	44:TC:331:SER:CB	2.21	0.71
45:TF:52:ASN:OD1	45:TF:62:ARG:NH2	2.24	0.71
45:TF:171:PRO:HG3	45:TF:181:GLU:HB3	1.70	0.71
44:TK:54:SER:OG	44:TK:62:VAL:HB	1.91	0.71
44:TK:326:LYS:HG2	45:TL:220:PRO:HB2	1.71	0.71
44:TM:288:VAL:O	44:TM:291:ILE:HG12	1.91	0.71
45:TN:207:LEU:HD21	45:TN:300:MET:HE1	1.72	0.71
45:UD:267:MET:HE3	45:UD:299:MET:HG3	1.72	0.71
44:UE:145:THR:HG22	46:UE:501:GTP:PG	2.31	0.71
45:UF:398:TYR:O	45:UF:403:MET:HB3	1.91	0.71
44:UG:111:GLY:HA2	44:UG:149:LEU:HD11	1.73	0.71
44:UG:209:ILE:CD1	44:UG:302:MET:HA	2.20	0.71
44:UK:320:ARG:HD3	44:UK:360:PRO:HG3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:70:LEU:HA	44:VA:95:GLY:HA3	1.71	0.71
44:VA:222:PRO:O	45:VB:322:SER:OG	2.07	0.71
45:VB:398:TYR:HB3	45:VB:403:MET:HE2	1.71	0.71
44:VE:285:GLN:HG3	44:VE:287:SER:H	1.55	0.71
44:VK:174:SER:CB	44:VK:177:VAL:HB	2.20	0.71
44:VK:231:ILE:O	44:VK:234:VAL:HG12	1.90	0.71
44:VM:298:PRO:HB3	44:VM:307:PRO:HD2	1.71	0.71
45:VN:396:HIS:HA	45:VN:399:THR:OG1	1.90	0.71
44:WE:208:ALA:O	44:WE:212:ILE:HG12	1.90	0.71
44:WK:304:LYS:NZ	44:WK:390:ARG:HD2	2.06	0.71
45:WN:127:CYS:SG	45:WN:130:LEU:HB2	2.30	0.71
7:0F:79:ASN:HD21	45:ED:245:GLN:NE2	1.86	0.71
10:0N:213:PRO:HA	45:KN:31:ASP:CB	2.18	0.71
15:0V:96:ASN:OD1	45:LN:262:ARG:NE	2.23	0.71
22:1L:285:ARG:HG2	45:BH:362:LYS:HE2	1.71	0.71
26:1R:293:ASP:OD1	45:DD:216:LYS:HD3	1.90	0.71
26:3R:224:PHE:CG	45:BN:80:PRO:HG3	2.24	0.71
31:4H:205:GLN:HB3	44:AK:82:THR:HG23	1.72	0.71
39:5K:38:HIS:HA	39:5K:41:ILE:CD1	2.19	0.71
35:5R:103:VAL:HG21	35:5R:106:ASN:ND2	2.06	0.71
35:6R:323:LEU:HD11	45:CN:276:ARG:CD	2.19	0.71
35:6R:389:ASN:H	45:EN:276:ARG:NH1	1.88	0.71
35:6R:404:LEU:HD13	45:DN:77:ARG:CZ	2.20	0.71
45:AD:286:VAL:CB	45:AD:325:GLU:HG2	2.20	0.71
44:AI:69:ASP:OD1	44:AI:70:LEU:N	2.24	0.71
44:AM:51:THR:HG21	44:AM:243:ARG:HB3	1.71	0.71
45:AN:133:PHE:HB2	45:AN:164:MET:SD	2.30	0.71
44:BC:1:MET:O	44:BC:131:GLY:HA3	1.90	0.71
44:BC:145:THR:HG23	46:BC:501:GTP:O2G	1.89	0.71
44:BC:272:TYR:HD2	44:BC:275:ILE:HD11	1.56	0.71
45:BD:60:VAL:HG23	45:BD:84:LEU:O	1.91	0.71
45:BF:173:PRO:HG2	45:BF:380:ARG:HD3	1.72	0.71
45:CH:309:ARG:HG2	45:CH:340:TYR:HA	1.71	0.71
45:CJ:114:ASP:OD1	45:CJ:115:SER:N	2.24	0.71
44:CM:105:ARG:HA	44:CM:109:THR:OG1	1.91	0.71
44:CM:269:LEU:HG	44:CM:301:MET:CE	2.20	0.71
45:CN:257:LEU:HA	45:CN:312:THR:CG2	2.18	0.71
44:DA:25:CYS:CB	44:DA:30:ILE:HB	2.21	0.71
44:DC:60:LYS:NZ	44:DC:85:GLN:O	2.22	0.71
45:DF:67:ASP:OD1	45:DF:68:LEU:N	2.23	0.71
44:DG:96:LYS:HA	44:DG:96:LYS:HE2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:20:CYS:HA	44:DK:232:ALA:HB1	1.72	0.71
45:EB:178:THR:CG2	45:EB:180:VAL:HG12	2.21	0.71
44:EC:217:LEU:HB3	44:EC:219:ILE:HG12	1.71	0.71
45:ED:289:LEU:HD21	45:ED:363:MET:SD	2.31	0.71
44:EE:259:LEU:HD11	44:EE:316:SER:OG	1.90	0.71
44:EG:257:THR:HG22	45:EH:397:TRP:CZ2	2.26	0.71
45:EH:139:LEU:HB3	45:EH:185:ALA:HA	1.72	0.71
45:EH:325:GLU:H	44:EI:221:ARG:NH1	1.89	0.71
44:EI:36:MET:HB2	44:EI:37:PRO:HD2	1.71	0.71
44:EM:312:TYR:HA	44:EM:381:SER:CB	2.21	0.71
45:FH:64:ILE:HG13	45:FH:90:PHE:CZ	2.26	0.71
45:FH:130:LEU:HD11	45:FH:133:PHE:HE1	1.56	0.71
44:FI:98:ASP:HB3	45:FJ:249:ASP:OD2	1.89	0.71
44:FI:416:GLY:O	44:FI:419:SER:OG	2.07	0.71
45:FJ:178:THR:N	45:FJ:181:GLU:OE2	2.24	0.71
44:FK:212:ILE:HD11	44:FK:300:ASN:HA	1.71	0.71
45:FN:330:MET:HA	45:FN:333:VAL:CG1	2.20	0.71
45:GD:257:LEU:HB3	45:GD:266:PHE:CZ	2.24	0.71
44:GG:212:ILE:HD13	44:GG:215:ARG:NH2	2.05	0.71
45:GH:287:PRO:HA	45:GH:329:GLN:NE2	2.06	0.71
45:GJ:67:ASP:HB3	45:GJ:73:MET:HE2	1.72	0.71
44:HA:105:ARG:O	44:HA:110:ILE:HG12	1.91	0.71
44:HE:244:PHE:CD1	44:HE:358:GLN:HG3	2.25	0.71
45:HF:318:ARG:NH1	45:HF:358:PRO:HG3	2.05	0.71
44:HG:268:MET:HG3	44:HG:378:ILE:HG22	1.73	0.71
44:HK:208:ALA:O	44:HK:212:ILE:N	2.21	0.71
45:HN:86:ARG:NE	45:HN:87:PRO:HD2	2.05	0.71
44:IC:165:SER:C	44:IC:166:LYS:HD3	2.11	0.71
44:IG:2:ARG:HB2	44:IG:133:GLN:HE21	1.56	0.71
45:IH:86:ARG:HH21	45:IH:87:PRO:CG	2.03	0.71
45:IH:248:SER:HA	45:IH:252:LYS:HD2	1.73	0.71
45:IJ:20:PHE:HB2	45:IJ:233:MET:CE	2.21	0.71
45:IJ:253:LEU:O	45:IJ:257:LEU:HD23	1.91	0.71
44:IK:10:GLY:O	44:IK:14:ILE:HD12	1.90	0.71
44:JI:199:ASP:O	44:JI:266:HIS:HB2	1.91	0.71
44:JK:21:TRP:CZ3	44:JK:63:PRO:HB3	2.25	0.71
44:JK:307:PRO:HB2	44:JK:312:TYR:OH	1.89	0.71
45:JN:103:LYS:NZ	45:JN:108:GLU:OE2	2.24	0.71
44:KA:6:SER:O	44:KA:7:ILE:HD13	1.89	0.71
44:KE:51:THR:HG23	44:KE:52:PHE:HD1	1.54	0.71
44:KE:384:ILE:O	44:KE:387:VAL:HG12	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:407:TRP:CH2	45:KF:258:ILE:HB	2.25	0.71
45:KF:60:VAL:HG13	45:KF:86:ARG:CD	2.20	0.71
44:KG:426:ALA:HB1	44:KG:430:LYS:HZ1	1.55	0.71
45:KL:143:THR:N	48:KL:501:GDP:O1B	2.24	0.71
45:LB:44:LEU:HA	45:LB:47:ILE:HB	1.71	0.71
45:LH:109:GLY:O	45:LH:113:ILE:HG23	1.91	0.71
45:LH:113:ILE:HG21	45:LH:150:LEU:HD22	1.71	0.71
44:LI:108:TYR:HA	44:LI:112:LYS:HZ3	1.54	0.71
45:LJ:67:ASP:OD1	45:LJ:68:LEU:N	2.23	0.71
45:LL:303:ALA:HB2	45:LL:376:GLU:HB2	1.71	0.71
44:LM:321:GLY:N	44:LM:356:ASN:O	2.23	0.71
45:LN:187:LEU:HD21	45:LN:408:PHE:CE1	2.26	0.71
44:MC:262:TYR:HB3	44:MC:263:PRO:HD2	1.71	0.71
44:NA:66:VAL:HG11	44:NA:121:ARG:HG2	1.70	0.71
44:NC:372:MET:C	44:NC:373:ARG:HD3	2.11	0.71
45:ND:58:ARG:NE	45:OD:280:GLN:HE22	1.88	0.71
44:NE:296:PHE:CD1	44:NE:341:ILE:HD13	2.26	0.71
44:NK:287:SER:O	44:NK:291:ILE:HG23	1.91	0.71
45:NL:7:ILE:HG21	45:NL:151:LEU:HD21	1.72	0.71
45:NN:11:GLN:HB3	48:NN:501:GDP:O1A	1.90	0.71
45:OB:201:VAL:HG22	45:OB:266:PHE:O	1.90	0.71
45:OB:395:LEU:O	45:OB:399:THR:N	2.24	0.71
44:OE:209:ILE:HD13	44:OE:302:MET:CG	2.20	0.71
44:OE:210:TYR:OH	45:OF:324:LYS:HA	1.90	0.71
45:OF:407:GLU:HA	45:OF:410:GLU:HG2	1.71	0.71
44:PA:212:ILE:HD11	44:PA:300:ASN:HA	1.72	0.71
45:PD:61:PRO:HD3	45:PD:84:LEU:HB3	1.71	0.71
44:PG:88:HIS:CE1	44:PG:90:GLU:HG2	2.24	0.71
44:PI:254:GLU:O	44:PI:257:THR:N	2.24	0.71
44:QA:320:ARG:HG3	44:QA:374:ALA:HB3	1.72	0.71
45:QB:184:ASN:OD1	45:QB:185:ALA:N	2.24	0.71
45:QB:309:ARG:N	45:QB:372:THR:OG1	2.23	0.71
45:QB:382:ALA:O	45:QB:386:THR:N	2.14	0.71
44:QC:257:THR:HA	45:QD:397:TRP:CZ3	2.26	0.71
45:QD:380:ARG:O	45:QD:384:GLN:N	2.18	0.71
45:QH:166:THR:N	45:QH:198:GLU:O	2.23	0.71
45:QH:290:THR:O	45:QH:293:MET:HG2	1.91	0.71
44:QK:238:LEU:HD21	44:QK:255:PHE:CZ	2.20	0.71
44:QM:141:VAL:HG11	44:QM:172:TYR:HD1	1.54	0.71
44:QM:274:PRO:HD3	44:QM:374:ALA:HA	1.71	0.71
45:RD:73:MET:HA	45:RD:76:VAL:HG12	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:126:ALA:O	44:RE:129:CYS:N	2.24	0.71
45:RF:253:LEU:HA	45:RF:350:LYS:HE2	1.72	0.71
44:RK:259:LEU:HD13	44:RK:268:MET:HE1	1.72	0.71
45:RL:236:VAL:HG12	45:RL:250:LEU:CD2	2.21	0.71
45:SF:8:GLN:HE21	45:SF:65:LEU:HG	1.56	0.71
45:SF:262:ARG:NE	45:SF:421:GLU:OE1	2.24	0.71
44:SG:270:SER:OG	44:SG:302:MET:SD	2.48	0.71
45:SL:347:ASN:O	44:SM:181:VAL:HG12	1.90	0.71
44:SM:87:PHE:HB3	44:SM:92:LEU:HD11	1.73	0.71
44:SM:157:LEU:HD22	44:SM:161:TYR:CE1	2.26	0.71
45:TD:262:ARG:NH2	45:TD:418:LEU:HA	2.06	0.71
45:TF:178:THR:HG22	45:TF:180:VAL:HG12	1.72	0.71
44:TI:215:ARG:NH2	44:TI:300:ASN:OD1	2.22	0.71
45:TJ:387:ALA:O	45:TJ:390:ARG:HG2	1.91	0.71
44:TK:298:PRO:HA	44:TK:301:MET:HG2	1.71	0.71
44:UA:258:ASN:O	44:UA:259:LEU:HD23	1.90	0.71
44:UE:349:THR:HG23	45:UF:179:VAL:HA	1.72	0.71
45:UF:377:MET:SD	45:UF:380:ARG:HD2	2.31	0.71
45:UJ:68:LEU:HD23	45:UJ:97:ALA:N	2.05	0.71
44:VG:287:SER:O	44:VG:291:ILE:HG23	1.91	0.71
45:VL:173:PRO:CG	45:VL:380:ARG:HD3	2.21	0.71
45:VL:214:THR:HB	45:VL:273:LEU:O	1.91	0.71
44:WC:145:THR:HG22	46:WC:501:GTP:PB	2.30	0.71
44:WC:315:CYS:SG	44:WC:379:SER:HB3	2.30	0.71
44:WI:14:ILE:HD11	44:WI:69:ASP:HB2	1.71	0.71
45:WN:405:GLU:O	45:WN:409:THR:N	2.22	0.71
1:6H:172:SER:O	45:FB:320:ARG:NH1	2.24	0.71
2:0A:71:TYR:CE2	44:AA:223:THR:HG21	2.25	0.71
26:1R:436:ILE:HD12	44:EC:42:ILE:HG21	1.71	0.71
17:2B:16:PHE:HZ	44:LK:364:PRO:HB2	1.55	0.71
5:2D:190:THR:HA	44:FI:219:ILE:CD1	2.14	0.71
27:2W:239:ARG:HH12	35:6R:5:LEU:CD1	2.02	0.71
16:2X:49:ILE:CD1	44:MI:282:TYR:HB2	2.20	0.71
16:2X:79:ARG:HB3	35:5R:47:GLU:OE2	1.89	0.71
11:3Q:86:TYR:OH	44:AG:415:GLU:OE1	2.09	0.71
16:3X:48:TRP:CB	44:MM:370:LYS:HE3	2.20	0.71
37:5A:162:LEU:HD13	44:NC:370:LYS:NZ	2.04	0.71
37:5D:34:PHE:CZ	44:KK:430:LYS:N	2.58	0.71
38:5G:206:VAL:HG21	44:LK:426:ALA:HB1	1.73	0.71
38:5H:24:ASP:HB2	38:5H:28:SER:O	1.91	0.71
41:6G:303:MET:O	45:VB:306:ARG:NE	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:118:LEU:HD12	35:6R:128:HIS:C	2.04	0.71
35:6R:391:PHE:CE2	45:EN:227:HIS:CD2	2.79	0.71
43:8P:70:UNK:O	43:8P:74:UNK:N	2.23	0.71
45:AB:287:PRO:HA	45:AB:329:GLN:HE22	1.56	0.71
44:AC:145:THR:HG22	46:AC:501:GTP:PG	2.31	0.71
44:AC:247:ALA:HB1	45:AF:222:TYR:CD2	2.26	0.71
45:AD:139:LEU:HD23	45:AD:168:SER:HB3	1.73	0.71
44:AM:332:ILE:HG23	44:AM:351:PHE:HD2	1.54	0.71
44:BI:326:LYS:CD	45:BL:219:THR:HG23	2.17	0.71
44:CA:150:GLY:O	44:CA:154:LEU:N	2.13	0.71
45:CD:355:ASP:O	45:CD:356:ILE:HD13	1.91	0.71
44:CE:276:ILE:HD13	44:CE:281:ALA:HA	1.73	0.71
44:CG:434:GLU:O	44:CG:437:ILE:HG12	1.90	0.71
45:CH:113:ILE:HD13	45:CH:150:LEU:HD22	1.70	0.71
45:CL:316:LEU:HB2	45:CL:366:THR:CG2	2.21	0.71
45:CN:54:ALA:HA	45:DN:283:ALA:HB2	1.72	0.71
44:DA:4:VAL:H	44:DA:64:ARG:HH21	1.38	0.71
44:DA:141:VAL:HG11	44:DA:172:TYR:CD1	2.25	0.71
45:DF:347:ASN:OD1	44:DG:394:LYS:NZ	2.24	0.71
45:DH:319:GLY:HA2	45:DH:355:ASP:O	1.91	0.71
44:DI:254:GLU:HG2	45:DJ:98:GLY:CA	2.21	0.71
44:DM:111:GLY:O	44:DM:115:VAL:HG23	1.90	0.71
44:DM:272:TYR:HD2	44:DM:275:ILE:HD11	1.56	0.71
44:DM:319:TYR:O	44:DM:356:ASN:N	2.24	0.71
45:DN:6:HIS:O	45:DN:7:ILE:HD13	1.90	0.71
45:DN:268:ILE:HG21	45:DN:368:VAL:HG22	1.72	0.71
44:EA:288:VAL:HG11	44:EA:327:ASP:HB2	1.73	0.71
45:EB:65:LEU:O	45:EB:91:VAL:HG12	1.91	0.71
44:EM:289:ALA:O	44:EM:292:THR:HG22	1.90	0.71
44:FA:68:LEU:HD21	44:FA:118:CYS:SG	2.31	0.71
45:FD:418:LEU:O	45:FD:422:TYR:N	2.22	0.71
45:FF:256:ASN:ND2	45:FF:350:LYS:HD2	2.06	0.71
45:FJ:51:TYR:HE1	45:FJ:61:PRO:HG3	1.55	0.71
45:FJ:67:ASP:OD1	45:FJ:68:LEU:N	2.24	0.71
45:FJ:232:ALA:O	45:FJ:236:VAL:HG23	1.91	0.71
45:FN:178:THR:CG2	45:FN:180:VAL:HG12	2.21	0.71
45:GD:110:ALA:O	45:GD:113:ILE:HG22	1.90	0.71
44:GE:104:ALA:HB2	44:GE:413:MET:HE3	1.73	0.71
45:GF:184:ASN:OD1	45:GF:185:ALA:N	2.24	0.71
45:GH:370:ASN:OD1	45:GH:422:TYR:OH	2.09	0.71
45:GJ:105:HIS:CE1	45:GJ:150:LEU:HD12	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:273:ALA:HB1	44:GK:274:PRO:HA	1.73	0.71
45:GN:135:ILE:HG21	45:GN:152:ILE:HD11	1.73	0.71
45:HB:103:LYS:HD3	45:HB:401:GLU:OE2	1.91	0.71
44:HC:11:GLN:HA	44:HC:14:ILE:HD12	1.73	0.71
44:HK:105:ARG:HG2	44:HK:411:GLU:OE1	1.89	0.71
45:IB:69:GLU:OE1	45:IB:71:GLY:N	2.23	0.71
44:II:340:THR:CG2	44:II:341:ILE:HD12	2.14	0.71
45:IJ:240:LEU:HD23	45:IJ:240:LEU:O	1.91	0.71
44:IK:240:ALA:HB1	44:IK:356:ASN:ND2	2.06	0.71
45:JB:7:ILE:HB	45:JB:135:ILE:HD12	1.73	0.71
45:JJ:108:GLU:O	45:JJ:111:GLU:HG3	1.90	0.71
44:JM:171:ILE:HG23	44:JM:204:LEU:O	1.90	0.71
45:JN:144:GLY:O	45:JN:148:GLY:N	2.24	0.71
45:KD:31:ASP:OD2	45:KD:35:THR:HG22	1.91	0.71
45:KD:355:ASP:O	45:KD:356:ILE:HD13	1.90	0.71
44:KG:123:ARG:NH2	44:KG:160:ASP:OD1	2.24	0.71
45:KH:5:VAL:HG23	45:KH:62:ARG:CG	2.21	0.71
45:KH:238:CYS:CB	45:KH:318:ARG:HH12	2.04	0.71
45:KJ:31:ASP:HB3	45:KJ:32:PRO:HD2	1.73	0.71
44:KM:54:SER:HB2	44:KM:64:ARG:CZ	2.21	0.71
45:LH:108:GLU:O	45:LH:111:GLU:HG3	1.91	0.71
44:LI:148:GLY:O	44:LI:152:LEU:HD23	1.91	0.71
45:LL:99:ASN:HA	45:LL:142:GLY:H	1.54	0.71
45:LN:398:TYR:O	45:LN:403:MET:HB2	1.91	0.71
44:MC:224:TYR:CE1	45:MD:323:THR:HG21	2.26	0.71
44:MI:326:LYS:HA	44:MI:326:LYS:CE	2.15	0.71
45:MJ:97:ALA:CB	45:MJ:143:THR:HB	2.21	0.71
44:MK:1:MET:HB2	44:MK:130:THR:CG2	2.20	0.71
44:NA:11:GLN:HA	44:NA:14:ILE:HB	1.72	0.71
45:NB:319:GLY:N	45:NB:354:CYS:O	2.24	0.71
45:NH:116:VAL:HA	45:NH:119:VAL:HG12	1.71	0.71
44:NI:254:GLU:HG3	45:NL:98:GLY:HA2	1.73	0.71
45:NL:7:ILE:O	45:NL:135:ILE:HG23	1.90	0.71
44:NM:271:SER:O	44:NM:376:CYS:HA	1.91	0.71
44:NM:276:ILE:HB	44:NM:369:ALA:CB	2.20	0.71
44:OA:100:ALA:HB1	45:OB:252:LYS:CA	2.21	0.71
45:OB:275:SER:O	45:OB:279:GLN:HG3	1.90	0.71
44:OC:288:VAL:HB	44:OC:327:ASP:OD2	1.91	0.71
44:OE:11:GLN:CG	44:OE:74:VAL:HG11	2.17	0.71
45:OF:248:SER:CB	45:OF:252:LYS:HD2	2.20	0.71
44:OG:24:PHE:HZ	44:OG:235:ILE:HG22	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:248:LEU:HD11	45:OJ:222:TYR:CE2	2.26	0.71
44:OK:254:GLU:HA	44:OK:257:THR:CB	2.21	0.71
44:OM:175:PRO:HD2	44:OM:207:GLU:OE1	1.91	0.71
44:OM:200:VAL:HA	44:OM:266:HIS:HB2	1.72	0.71
45:PB:148:GLY:O	45:PB:152:ILE:HG12	1.91	0.71
45:PB:207:LEU:HD21	45:PB:300:MET:HG3	1.73	0.71
44:PC:352:LYS:HD2	45:PF:177:ASP:O	1.91	0.71
44:PE:188:ILE:HG13	44:PE:395:PHE:HB2	1.72	0.71
44:PK:76:ASP:OD1	44:PK:79:ARG:NH2	2.23	0.71
45:PL:112:LEU:HD23	45:PL:112:LEU:O	1.90	0.71
44:PM:70:LEU:HB3	44:PM:97:GLU:O	1.90	0.71
44:QA:252:ILE:HA	44:QA:255:PHE:CZ	2.26	0.71
45:QB:73:MET:CE	45:QB:92:PHE:HB3	2.20	0.71
45:QB:409:THR:O	45:QB:413:SER:N	2.23	0.71
44:QE:141:VAL:HG11	44:QE:172:TYR:HA	1.72	0.71
45:QF:178:THR:HG22	45:QF:180:VAL:H	1.56	0.71
45:QF:248:SER:HA	45:QF:252:LYS:HG3	1.71	0.71
45:QF:257:LEU:HB3	45:QF:266:PHE:HZ	1.53	0.71
44:QG:172:TYR:HB2	44:QG:203:MET:HE1	1.72	0.71
45:QH:350:LYS:HD2	45:QH:351:SER:H	1.56	0.71
45:QJ:19:LYS:HB3	45:QJ:230:SER:OG	1.91	0.71
45:QL:22:GLU:HA	45:QL:81:PHE:CE2	2.25	0.71
44:QM:216:ASN:CB	44:QM:275:ILE:HG22	2.20	0.71
44:RG:252:ILE:HA	44:RG:255:PHE:HE2	1.54	0.71
45:RH:267:MET:CE	45:RH:371:SER:HB3	2.20	0.71
45:RL:2:ARG:NH2	44:RM:71:GLU:OE2	2.24	0.71
44:RM:145:THR:O	44:RM:149:LEU:HB2	1.91	0.71
45:SB:69:GLU:OE1	45:SB:71:GLY:N	2.23	0.71
44:SC:189:LEU:HD11	44:SC:418:PHE:CE1	2.25	0.71
44:SE:2:ARG:H	44:SE:2:ARG:HD3	1.55	0.71
44:SE:174:SER:HB2	44:SE:177:VAL:O	1.90	0.71
45:SF:314:SER:HB2	45:SF:350:LYS:HB3	1.73	0.71
44:SG:323:VAL:CG1	44:SG:355:ILE:HD12	2.20	0.71
45:SH:324:LYS:HD2	44:SI:210:TYR:CD1	2.26	0.71
44:SK:135:PHE:HB2	44:SK:166:LYS:HG2	1.73	0.71
44:SK:276:ILE:HD13	44:SK:286:LEU:HD21	1.72	0.71
44:SM:118:CYS:O	44:SM:122:ILE:HG12	1.90	0.71
45:SN:292:GLN:HG2	45:SN:298:ASN:ND2	2.05	0.71
44:TC:174:SER:HB3	44:TC:207:GLU:HB2	1.70	0.71
44:TE:288:VAL:HA	44:TE:291:ILE:HD11	1.72	0.71
45:TF:272:PRO:O	45:TF:273:LEU:HD23	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:4:ILE:HA	45:TH:130:LEU:HD12	1.72	0.71
44:TI:258:ASN:O	45:TJ:179:VAL:HG21	1.90	0.71
44:TM:75:ILE:HG23	44:TM:92:LEU:HD23	1.71	0.71
45:TN:73:MET:O	45:TN:76:VAL:HG12	1.90	0.71
45:TN:87:PRO:HA	45:TN:90:PHE:CD2	2.26	0.71
44:UA:91:GLN:CG	44:UA:121:ARG:HD2	2.21	0.71
44:UA:294:SER:HA	44:UA:297:GLU:HG3	1.72	0.71
45:UB:21:TRP:HZ2	45:UB:63:ALA:HB2	1.55	0.71
44:UE:233:GLN:O	44:UE:236:SER:OG	2.07	0.71
44:UE:306:ASP:OD1	44:UE:308:ARG:N	2.23	0.71
45:UF:351:SER:CB	44:UG:179:THR:HG23	2.20	0.71
44:UG:293:ASN:O	44:UG:297:GLU:N	2.23	0.71
45:UH:1:MET:O	45:UH:2:ARG:HG2	1.91	0.71
45:UH:46:ARG:HH22	44:UI:72:PRO:HB2	1.56	0.71
45:UH:86:ARG:HH12	45:VH:281:TYR:HB3	1.54	0.71
45:UH:284:LEU:HB3	45:UH:363:MET:CE	2.21	0.71
44:UI:424:ASP:O	44:UI:428:LEU:N	2.19	0.71
45:UL:257:LEU:HD11	45:UL:314:SER:HB2	1.73	0.71
44:VA:286:LEU:N	44:VA:290:GLU:OE2	2.24	0.71
44:VA:432:TYR:O	44:VA:436:GLY:N	2.18	0.71
44:VE:100:ALA:HB1	45:VF:255:VAL:HG21	1.72	0.71
44:VI:324:VAL:HG13	44:VI:325:PRO:HD2	1.73	0.71
44:VM:136:LEU:HD23	44:VM:167:LEU:HB2	1.72	0.71
45:WB:27:GLU:OE2	45:WB:241:ARG:NH2	2.23	0.71
45:WH:100:ASN:O	45:WH:103:LYS:N	2.21	0.71
44:WK:320:ARG:HG3	44:WK:374:ALA:HB3	1.73	0.71
45:WN:240:LEU:CD1	45:WN:250:LEU:HG	2.21	0.71
22:1L:176:ARG:NH1	44:CI:367:ASP:HA	2.05	0.71
28:2C:14:ARG:HH22	45:LJ:320:ARG:NH2	1.77	0.71
11:2Q:72:LYS:HB2	36:5S:71:ARG:HH21	1.54	0.71
12:3S:271:ASP:OD1	11:6Q:21:PRO:HD2	1.91	0.71
31:4H:193:LEU:HD11	45:AL:362:LYS:HA	1.72	0.71
37:5D:35:PHE:CE2	44:KK:435:VAL:HG12	2.25	0.71
37:5D:107:TYR:N	44:NM:280:LYS:N	2.38	0.71
35:5R:388:TYR:CE2	35:5R:390:GLY:HA2	2.26	0.71
35:5R:492:ILE:N	35:5R:583:GLN:OE1	2.22	0.71
35:7R:222:PRO:CB	35:7R:224:ASN:HB2	2.21	0.71
35:7R:404:LEU:HD13	45:DB:77:ARG:HH11	1.55	0.71
35:7R:464:GLY:O	45:FB:277:GLY:N	2.20	0.71
44:AE:3:GLU:HG3	44:AE:129:CYS:HB3	1.73	0.71
44:AG:14:ILE:O	44:AG:18:ASN:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:274:THR:HG21	45:AH:279:GLN:CG	2.20	0.71
45:AL:178:THR:HB	45:AL:181:GLU:CG	2.21	0.71
44:AM:246:GLY:HA2	44:AM:357:TYR:HE2	1.55	0.71
45:AN:21:TRP:O	45:AN:25:SER:N	2.17	0.71
45:AN:193:VAL:HA	45:AN:264:HIS:HE1	1.56	0.71
44:BA:317:MET:CE	44:BA:375:VAL:HG11	2.21	0.71
45:BH:141:GLY:HA3	48:BH:502:GDP:O3A	1.90	0.71
45:BJ:60:VAL:HG21	45:BJ:86:ARG:HB2	1.73	0.71
44:BK:352:LYS:HA	45:BN:177:ASP:O	1.91	0.71
44:BM:68:LEU:HD21	44:BM:118:CYS:CB	2.20	0.71
44:BM:249:ASN:OD1	44:BM:250:VAL:N	2.23	0.71
44:CA:54:SER:HB3	44:CA:64:ARG:CZ	2.20	0.71
44:CI:27:GLU:OE2	44:CI:243:ARG:NH1	2.23	0.71
44:CM:9:VAL:CG1	44:CM:139:ASN:HB3	2.21	0.71
45:DB:255:VAL:HA	44:DC:407:TRP:CZ3	2.26	0.71
45:DF:67:ASP:OD2	45:DF:72:THR:HG21	1.90	0.71
45:DH:302:ALA:HB3	45:DH:377:MET:HE1	1.73	0.71
44:DI:217:LEU:HD21	44:DI:275:ILE:HG22	1.72	0.71
44:DK:352:LYS:HA	45:DL:177:ASP:O	1.90	0.71
45:DN:20:PHE:O	45:DN:24:ILE:HG13	1.90	0.71
44:EA:79:ARG:HD3	44:EA:92:LEU:HD11	1.73	0.71
45:EB:103:LYS:NZ	45:EB:401:GLU:OE2	2.13	0.71
44:EC:284:GLU:HG3	44:EC:286:LEU:HD22	1.73	0.71
45:ED:274:THR:OG1	45:ED:282:ARG:NH1	2.24	0.71
45:ED:322:SER:O	44:EE:221:ARG:NH1	2.23	0.71
45:EL:314:SER:HA	45:EL:350:LYS:HB3	1.73	0.71
44:EM:168:GLY:O	44:EM:201:ALA:HA	1.91	0.71
45:EN:2:ARG:H	45:EN:129:CYS:HB3	1.54	0.71
45:EN:313:ALA:N	45:EN:348:ASN:O	2.23	0.71
45:FD:6:HIS:HA	45:FD:134:GLN:HE21	1.55	0.71
44:FE:60:LYS:HD2	44:FE:85:GLN:HE22	1.56	0.71
44:FG:264:ARG:NH2	44:FG:428:LEU:HB2	2.05	0.71
45:FJ:215:LEU:CD2	45:FJ:217:LEU:HB3	2.21	0.71
45:FL:110:ALA:O	45:FL:113:ILE:HG22	1.91	0.71
45:FL:315:ALA:O	45:FL:352:SER:N	2.23	0.71
44:GA:173:PRO:CG	44:GA:391:LEU:HD21	2.20	0.71
44:GA:173:PRO:HG3	44:GA:391:LEU:HD21	1.73	0.71
44:GA:326:LYS:HD3	45:GD:208:TYR:CD1	2.26	0.71
44:GC:115:VAL:HG22	44:GC:119:LEU:HD23	1.73	0.71
45:GD:309:ARG:N	45:GD:372:THR:OG1	2.22	0.71
45:GH:6:HIS:NE2	45:GH:8:GLN:OE1	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:11:GLN:HB3	48:GL:502:GDP:O1A	1.91	0.71
44:GM:319:TYR:HB3	44:GM:323:VAL:HG11	1.71	0.71
45:GN:183:TYR:OH	45:GN:393:ALA:O	2.09	0.71
44:HC:23:LEU:HD21	44:HC:236:SER:HB2	1.72	0.71
44:HC:118:CYS:O	44:HC:122:ILE:HG12	1.91	0.71
44:HC:312:TYR:O	44:HC:344:VAL:N	2.21	0.71
44:HC:332:ILE:HD12	44:HC:351:PHE:CD2	2.26	0.71
45:HD:97:ALA:HB3	45:HD:143:THR:HB	1.72	0.71
45:HD:173:PRO:HD3	45:HD:380:ARG:HD3	1.73	0.71
44:HE:22:GLU:HG3	44:HE:83:TYR:OH	1.91	0.71
44:HE:149:LEU:O	44:HE:153:LEU:HD23	1.91	0.71
45:HH:173:PRO:CG	45:HH:380:ARG:HD3	2.21	0.71
44:HK:318:MET:HB3	44:HK:376:CYS:SG	2.31	0.71
45:HL:362:LYS:NZ	45:HL:363:MET:SD	2.59	0.71
44:HM:91:GLN:O	44:HM:93:ILE:HD12	1.91	0.71
44:IA:212:ILE:CD1	44:IA:300:ASN:HA	2.17	0.71
45:IB:334:GLN:HE22	45:IB:348:ASN:H	1.38	0.71
44:IE:64:ARG:NH1	44:IE:129:CYS:SG	2.63	0.71
44:IE:276:ILE:HG12	44:IE:281:ALA:HB2	1.71	0.71
44:IE:288:VAL:HG11	44:IE:327:ASP:HB3	1.72	0.71
45:IH:232:ALA:HB1	45:IH:268:ILE:CD1	2.20	0.71
45:JH:342:VAL:HG13	45:JH:345:ILE:HG22	1.73	0.71
44:JI:69:ASP:OD1	44:JI:70:LEU:N	2.24	0.71
45:JL:49:VAL:HG12	45:JL:50:TYR:CD2	2.25	0.71
45:JN:186:THR:HA	45:JN:415:MET:CE	2.19	0.71
45:KB:100:ASN:ND2	45:KB:103:LYS:HG3	2.06	0.71
44:KC:24:PHE:O	44:KC:27:GLU:HG2	1.91	0.71
44:KE:332:ILE:O	44:KE:335:ILE:HG22	1.91	0.71
44:KG:3:GLU:HG2	44:KG:64:ARG:NH2	2.06	0.71
44:KG:56:THR:HG23	44:KG:58:ALA:H	1.56	0.71
45:KH:362:LYS:HG3	45:KH:363:MET:HG2	1.73	0.71
45:KL:68:LEU:HD21	45:KL:147:MET:SD	2.31	0.71
45:KN:200:MET:CE	45:KN:266:PHE:HB2	2.18	0.71
45:LB:130:LEU:O	45:LB:162:ARG:NH1	2.23	0.71
45:LF:12:CYS:HB2	48:LF:501:GDP:C8	2.25	0.71
45:LH:167:PHE:CZ	45:LH:233:MET:HG3	2.25	0.71
45:LJ:244:GLY:HA2	45:LJ:355:ASP:OD2	1.91	0.71
45:LN:355:ASP:O	45:LN:356:ILE:HD13	1.91	0.71
45:MB:39:ASP:N	45:MB:43:GLN:OE1	2.24	0.71
44:MC:145:THR:HG22	46:MC:501:GTP:O3B	1.90	0.71
45:MF:99:ASN:HA	45:MF:142:GLY:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:236:VAL:HG13	45:MF:237:THR:HG23	1.73	0.71
44:MG:54:SER:HB3	44:MG:64:ARG:CZ	2.21	0.71
45:MJ:131:GLN:HG3	45:MJ:131:GLN:O	1.90	0.71
45:ML:173:PRO:HG3	45:ML:380:ARG:HD3	1.71	0.71
44:MM:6:SER:O	44:MM:7:ILE:HD13	1.90	0.71
44:MM:145:THR:HG23	46:MM:501:GTP:PG	2.31	0.71
44:MM:221:ARG:NH2	45:MN:325:GLU:OE2	2.24	0.71
45:NB:419:VAL:O	45:NB:423:GLN:N	2.20	0.71
44:NC:1:MET:SD	44:NC:130:THR:OG1	2.48	0.71
44:NC:32:PRO:HB3	44:NC:83:TYR:CE1	2.24	0.71
44:NC:407:TRP:CE3	45:ND:255:VAL:HG22	2.25	0.71
44:NE:4:VAL:HG23	44:NE:134:GLY:O	1.90	0.71
45:NH:204:ASN:O	45:NH:207:LEU:HB2	1.91	0.71
45:NJ:232:ALA:HB1	45:NJ:268:ILE:HD12	1.73	0.71
44:OA:60:LYS:HG2	44:OA:61:HIS:H	1.56	0.71
44:OA:346:TRP:NE1	45:OD:393:ALA:HB3	2.06	0.71
44:OC:242:LEU:HD11	44:OC:252:ILE:H	1.55	0.71
44:OC:311:LYS:N	44:OC:382:THR:HG1	1.89	0.71
45:OF:26:ASP:OD1	45:OF:27:GLU:N	2.23	0.71
45:OJ:97:ALA:CB	45:OJ:143:THR:HB	2.20	0.71
45:OL:197:ASP:O	45:OL:198:GLU:HG3	1.90	0.71
45:ON:32:PRO:HD3	45:ON:81:PHE:CE2	2.25	0.71
45:PB:382:ALA:HB2	45:PB:415:MET:CE	2.21	0.71
45:PD:101:TRP:HB3	45:PD:398:TYR:CE1	2.26	0.71
44:PE:269:LEU:HD11	44:PE:384:ILE:CD1	2.18	0.71
45:PJ:7:ILE:HB	45:PJ:135:ILE:CD1	2.21	0.71
45:QB:311:LEU:HA	45:QB:342:VAL:CG1	2.21	0.71
45:QD:372:THR:HG21	45:QD:426:GLN:HE21	1.56	0.71
44:QE:54:SER:CB	44:QE:64:ARG:HH21	2.01	0.71
45:QL:4:ILE:HG22	45:QL:132:GLY:H	1.55	0.71
45:QL:178:THR:HB	45:QL:181:GLU:CG	2.21	0.71
44:QM:210:TYR:CD1	44:QM:227:LEU:HD21	2.26	0.71
44:RC:271:SER:HB2	44:RC:377:MET:HG3	1.73	0.71
45:RF:73:MET:SD	45:RF:92:PHE:HB3	2.30	0.71
44:RG:108:TYR:CD2	44:RG:413:MET:HG3	2.25	0.71
45:RJ:135:ILE:HG13	45:RJ:152:ILE:HD11	1.72	0.71
45:RJ:325:GLU:HA	45:RJ:328:GLU:CG	2.19	0.71
45:RL:42:LEU:HA	45:RL:45:GLU:HG3	1.72	0.71
45:RL:86:ARG:HE	45:RL:88:ASP:H	1.39	0.71
44:SA:132:LEU:HD21	44:SA:134:GLY:O	1.91	0.71
45:SB:31:ASP:OD1	45:SB:37:HIS:HB2	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:271:SER:N	44:SC:377:MET:SD	2.64	0.71
45:SF:68:LEU:HD23	45:SF:97:ALA:CB	2.20	0.71
45:SJ:8:GLN:NE2	45:SJ:17:GLY:HA3	2.05	0.71
45:SJ:377:MET:O	45:SJ:380:ARG:HG2	1.91	0.71
44:SK:141:VAL:HG11	44:SK:172:TYR:CD1	2.25	0.71
45:SL:130:LEU:HD21	45:SL:133:PHE:CZ	2.26	0.71
44:SM:77:GLU:N	44:SM:80:THR:OG1	2.23	0.71
45:SN:16:ILE:HD13	45:SN:226:ASN:OD1	1.91	0.71
44:TA:5:ILE:HG23	44:TA:64:ARG:O	1.90	0.71
44:TA:272:TYR:CD1	44:TA:376:CYS:HB2	2.26	0.71
44:TC:385:ALA:O	44:TC:389:SER:N	2.18	0.71
45:TD:117:LEU:HA	45:TD:120:VAL:HG22	1.73	0.71
45:TF:4:ILE:CG2	45:TF:131:GLN:HB3	2.21	0.71
45:TF:178:THR:HB	45:TF:181:GLU:HG3	1.72	0.71
44:TG:271:SER:HB2	44:TG:377:MET:SD	2.30	0.71
45:TH:169:VAL:HG13	45:TH:202:ILE:O	1.91	0.71
45:TH:257:LEU:HA	45:TH:312:THR:HG21	1.73	0.71
45:TL:102:ALA:HB1	45:TL:403:MET:CE	2.20	0.71
44:TM:136:LEU:HD13	44:TM:167:LEU:HB2	1.73	0.71
44:UA:209:ILE:HG13	44:UA:302:MET:HE1	1.72	0.71
44:UC:238:LEU:HD23	44:UC:318:MET:CE	2.20	0.71
45:UF:255:VAL:HA	44:UG:407:TRP:CZ3	2.26	0.71
44:UG:287:SER:O	44:UG:291:ILE:HG12	1.90	0.71
45:UH:377:MET:HA	45:UH:380:ARG:CG	2.20	0.71
45:UJ:130:LEU:HG	45:UJ:162:ARG:HD2	1.71	0.71
44:UM:102:ASN:ND2	44:UM:407:TRP:O	2.24	0.71
44:VI:32:PRO:HB3	44:VI:83:TYR:HE1	1.54	0.71
45:VJ:178:THR:HG22	45:VJ:180:VAL:HG12	1.72	0.71
45:VJ:316:LEU:HA	45:VJ:352:SER:OG	1.91	0.71
44:VM:100:ALA:HB1	45:VN:252:LYS:CA	2.21	0.71
44:VM:404:PHE:CD1	45:VN:259:PRO:HA	2.25	0.71
45:VN:25:SER:HB2	45:VN:81:PHE:CE1	2.25	0.71
45:WD:22:GLU:HG2	45:WD:81:PHE:CG	2.25	0.71
45:WF:265:PHE:HB2	45:WF:374:ILE:HD13	1.73	0.71
45:WL:304:ASP:OD1	45:WL:306:ARG:HG2	1.91	0.71
45:WN:239:CYS:SG	45:WN:248:SER:OG	2.49	0.71
22:1L:431:ARG:NH2	44:CG:366:GLY:O	2.24	0.70
6:2E:46:ASP:OD2	35:5R:379:LYS:HG2	1.91	0.70
21:2K:379:ARG:HD3	44:GG:282:TYR:CD2	2.25	0.70
11:2Q:149:ILE:O	36:5S:71:ARG:NH2	2.22	0.70
26:3R:153:LYS:CE	45:AN:75:SER:HB2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:3R:291:GLY:HA3	45:DL:276:ARG:HB3	1.71	0.70
35:4R:319:PRO:HG3	45:CF:228:LEU:HD13	1.72	0.70
37:5D:107:TYR:CD2	44:NM:278:ALA:N	2.60	0.70
38:5F:197:LEU:HD12	44:LG:393:HIS:CD2	2.25	0.70
11:6Q:5:THR:O	11:6Q:7:GLN:NE2	2.24	0.70
35:7R:313:PRO:HA	35:7R:326:GLU:OE1	1.91	0.70
44:AA:141:VAL:HG21	44:AA:172:TYR:CD1	2.23	0.70
45:AB:406:MET:O	45:AB:410:GLU:N	2.24	0.70
45:AF:103:LYS:HA	45:AF:107:THR:CG2	2.21	0.70
44:AG:102:ASN:ND2	44:AG:407:TRP:O	2.23	0.70
44:AI:155:GLU:HA	44:AI:197:HIS:ND1	2.06	0.70
45:AJ:248:SER:HA	45:AJ:252:LYS:HD2	1.70	0.70
45:AJ:323:THR:O	45:AJ:326:VAL:HG12	1.90	0.70
45:AL:318:ARG:HH11	45:AL:318:ARG:HG3	1.55	0.70
44:AM:224:TYR:HD1	44:AM:227:LEU:HD12	1.56	0.70
44:BG:389:SER:O	44:BG:393:HIS:N	2.21	0.70
44:BG:398:MET:CE	45:BH:345:ILE:HG13	2.21	0.70
44:BM:223:THR:O	44:BM:227:LEU:HG	1.91	0.70
45:BN:113:ILE:HA	45:BN:116:VAL:HG12	1.72	0.70
44:CA:72:PRO:O	44:CA:76:ASP:N	2.24	0.70
44:CA:219:ILE:CG2	44:CA:222:PRO:HG3	2.19	0.70
45:CB:4:ILE:HG22	45:CB:132:GLY:N	2.06	0.70
45:CF:273:LEU:HD12	45:CF:298:ASN:OD1	1.91	0.70
44:CG:292:THR:HG21	44:CG:331:SER:HB3	1.73	0.70
44:CI:286:LEU:O	44:CI:373:ARG:NH1	2.23	0.70
45:CJ:135:ILE:HG13	45:CJ:152:ILE:CD1	2.21	0.70
44:CK:172:TYR:HB3	44:CK:173:PRO:HD2	1.71	0.70
45:CN:149:THR:HA	45:CN:152:ILE:HG13	1.73	0.70
44:DC:68:LEU:HD21	44:DC:118:CYS:SG	2.30	0.70
45:DD:178:THR:HB	45:DD:181:GLU:CG	2.20	0.70
44:DE:199:ASP:O	44:DE:266:HIS:HB2	1.91	0.70
44:DI:265:ILE:HG23	44:DI:432:TYR:OH	1.91	0.70
45:DJ:173:PRO:CG	45:DJ:380:ARG:HD3	2.20	0.70
45:EB:44:LEU:HD23	45:EB:47:ILE:HD13	1.73	0.70
45:EF:1:MET:O	45:EF:2:ARG:HG2	1.91	0.70
45:EF:9:GLY:HA2	45:EF:66:MET:HG3	1.71	0.70
45:EJ:317:PHE:HA	45:EJ:365:VAL:HG22	1.73	0.70
45:EL:314:SER:CB	45:EL:350:LYS:HB3	2.20	0.70
44:EM:205:ASP:OD2	44:EM:304:LYS:N	2.23	0.70
45:EN:254:ALA:HA	45:EN:258:ILE:CD1	2.20	0.70
44:FC:398:MET:HE2	45:FD:345:ILE:HD12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:175:VAL:HG21	45:FD:204:ASN:CB	2.20	0.70
45:FD:257:LEU:HD13	45:FD:312:THR:HG23	1.72	0.70
44:FE:268:MET:HB2	44:FE:379:SER:O	1.91	0.70
44:FG:9:VAL:HG21	44:FG:149:LEU:CB	2.21	0.70
45:FL:355:ASP:O	45:FL:356:ILE:HD13	1.91	0.70
44:FM:73:THR:OG1	45:FN:2:ARG:NH2	2.24	0.70
44:FM:224:TYR:CD1	44:FM:227:LEU:HD12	2.26	0.70
44:GA:104:ALA:CB	44:GA:411:GLU:HB3	2.22	0.70
44:GA:320:ARG:NH2	44:GA:360:PRO:HA	2.06	0.70
44:GA:338:LYS:CB	44:GA:341:ILE:HG22	2.21	0.70
45:GB:156:ARG:NH2	45:GB:160:PRO:O	2.23	0.70
44:GC:258:ASN:O	44:GC:259:LEU:HD23	1.91	0.70
44:GC:417:GLU:O	44:GC:420:GLU:HG2	1.91	0.70
44:GE:6:SER:O	44:GE:7:ILE:HD13	1.91	0.70
45:GH:139:LEU:HD12	45:GH:188:SER:CB	2.20	0.70
45:GJ:113:ILE:HA	45:GJ:116:VAL:HG12	1.71	0.70
44:HC:241:SER:OG	44:HC:250:VAL:N	2.23	0.70
44:HC:333:ALA:HA	45:HF:174:LYS:HZ3	1.56	0.70
45:HF:302:ALA:HB3	45:HF:377:MET:CE	2.20	0.70
45:HF:302:ALA:HB3	45:HF:377:MET:HE3	1.73	0.70
44:HI:88:HIS:CE1	44:HI:90:GLU:HG2	2.26	0.70
44:IA:268:MET:HE3	44:IA:378:ILE:HG23	1.73	0.70
44:IC:404:PHE:CE1	45:ID:259:PRO:HA	2.25	0.70
44:II:98:ASP:O	44:II:105:ARG:NH1	2.24	0.70
44:IK:420:GLU:O	44:IK:423:GLU:HG2	1.90	0.70
45:IL:249:ASP:OD1	45:IL:252:LYS:HG3	1.91	0.70
45:JB:52:ASN:HB2	45:JB:60:VAL:CG1	2.21	0.70
45:JD:62:ARG:O	45:JD:62:ARG:HG3	1.89	0.70
44:JG:11:GLN:OE1	44:JG:11:GLN:N	2.22	0.70
45:JH:372:THR:HA	45:JH:422:TYR:HE1	1.54	0.70
44:JM:138:PHE:CE1	44:JM:169:PHE:HB2	2.25	0.70
45:JN:66:MET:CE	45:JN:147:MET:HG2	2.21	0.70
45:KB:193:VAL:HA	45:KB:264:HIS:CE1	2.26	0.70
45:KD:61:PRO:HG3	45:KD:84:LEU:HB3	1.73	0.70
45:KD:105:HIS:CE1	45:KD:150:LEU:HD21	2.25	0.70
45:KD:119:VAL:HG13	45:KD:122:LYS:HE2	1.71	0.70
44:KE:14:ILE:HD11	44:KE:69:ASP:CB	2.20	0.70
44:KG:195:LEU:HD21	44:KG:428:LEU:HD11	1.71	0.70
44:KI:137:VAL:HG12	44:KI:167:LEU:O	1.89	0.70
45:KL:181:GLU:CG	45:KL:182:PRO:HD3	2.21	0.70
45:KN:341:PHE:N	45:KN:349:ILE:HB	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:262:ARG:NH1	45:LF:421:GLU:OE2	2.24	0.70
44:LG:2:ARG:CB	44:LG:242:LEU:HD22	2.19	0.70
45:LN:286:VAL:HG22	45:LN:325:GLU:OE2	1.90	0.70
45:MB:101:TRP:CD1	45:MB:105:HIS:HB2	2.26	0.70
44:MC:147:SER:O	44:MC:151:SER:N	2.22	0.70
44:MG:325:PRO:O	44:MG:328:VAL:HG12	1.89	0.70
44:MI:318:MET:HE3	44:MI:318:MET:HA	1.74	0.70
44:MK:100:ALA:HA	45:ML:252:LYS:NZ	2.05	0.70
45:ML:112:LEU:O	45:ML:112:LEU:HD23	1.90	0.70
45:ML:174:LYS:CD	45:ML:175:VAL:HG13	2.20	0.70
45:ND:44:LEU:O	45:ND:47:ILE:HG22	1.91	0.70
45:NF:184:ASN:OD1	45:NF:185:ALA:N	2.24	0.70
45:NF:303:ALA:HA	45:NF:376:GLU:OE2	1.91	0.70
45:NH:58:ARG:NH2	45:OH:281:TYR:HA	2.05	0.70
45:NL:178:THR:HG22	45:NL:180:VAL:N	2.06	0.70
45:NN:178:THR:CG2	45:NN:180:VAL:HG22	2.19	0.70
44:OA:90:GLU:OE2	44:OA:121:ARG:NH1	2.24	0.70
45:OB:215:LEU:HB3	45:OB:217:LEU:HD22	1.73	0.70
45:OB:289:LEU:HD11	45:OB:363:MET:HB3	1.72	0.70
44:OE:207:GLU:HG2	44:OE:304:LYS:HE3	1.73	0.70
45:OL:318:ARG:HB3	45:OL:357:PRO:HA	1.72	0.70
45:PB:106:TYR:O	45:PB:110:ALA:HB2	1.91	0.70
45:PD:113:ILE:HD13	45:PD:154:LYS:HE3	1.72	0.70
45:PD:207:LEU:HB3	45:PD:225:LEU:HD22	1.73	0.70
44:PE:2:ARG:HD3	44:PE:242:LEU:CD2	2.20	0.70
45:PF:116:VAL:O	45:PF:120:VAL:HG23	1.91	0.70
44:PG:109:THR:HG23	44:PG:110:ILE:HG23	1.73	0.70
44:QA:405:VAL:HG12	44:QA:409:VAL:HG23	1.73	0.70
45:QB:134:GLN:HA	45:QB:165:GLU:O	1.90	0.70
44:QC:88:HIS:O	44:QC:91:GLN:HG2	1.91	0.70
44:QC:196:GLU:OE2	44:QC:264:ARG:NH1	2.21	0.70
45:QD:257:LEU:HD11	45:QD:314:SER:HB2	1.71	0.70
44:QE:104:ALA:HA	44:QE:413:MET:CE	2.21	0.70
45:QF:350:LYS:NZ	44:QG:179:THR:O	2.22	0.70
45:QJ:210:ILE:HD11	45:QJ:299:MET:O	1.90	0.70
44:QM:316:SER:HA	44:QM:352:LYS:HB3	1.73	0.70
45:RB:110:ALA:O	45:RB:113:ILE:HG22	1.90	0.70
44:RC:25:CYS:HA	44:RC:30:ILE:CG1	2.21	0.70
45:RD:17:GLY:O	45:RD:21:TRP:HB2	1.90	0.70
44:RE:88:HIS:CE1	44:RE:90:GLU:HG2	2.26	0.70
44:RG:268:MET:HG2	44:RG:380:ASN:CB	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:358:GLN:OE1	44:RI:359:PRO:HD2	1.91	0.70
44:RK:276:ILE:CD1	44:RK:281:ALA:HA	2.20	0.70
45:RL:323:THR:HA	45:RL:326:VAL:CG2	2.21	0.70
45:SB:12:CYS:N	48:SB:501:GDP:O3B	2.22	0.70
45:SD:286:VAL:HG22	45:SD:363:MET:HE2	1.73	0.70
45:SF:303:ALA:H	45:SF:377:MET:HE1	1.56	0.70
44:SG:206:ASN:HA	44:SG:209:ILE:CD1	2.21	0.70
45:SH:31:ASP:OD1	45:SH:35:THR:N	2.24	0.70
44:SK:88:HIS:HB3	44:SK:91:GLN:HB2	1.72	0.70
45:SL:317:PHE:HA	45:SL:365:VAL:HG22	1.73	0.70
45:SL:358:PRO:HB2	45:SL:361:LEU:HD12	1.73	0.70
44:SM:262:TYR:HB2	44:SM:265:ILE:HD12	1.73	0.70
45:TD:210:ILE:CD1	45:TD:300:MET:HA	2.20	0.70
44:TE:285:GLN:O	44:TE:373:ARG:NH2	2.24	0.70
45:TF:183:TYR:HE2	45:TF:394:PHE:HB2	1.55	0.70
45:TH:309:ARG:H	45:TH:372:THR:HG1	1.38	0.70
45:TJ:101:TRP:HB3	45:TJ:398:TYR:HE1	1.56	0.70
45:TL:295:ASP:OD1	45:TL:297:LYS:N	2.16	0.70
44:UA:260:VAL:HG11	44:UA:266:HIS:HB3	1.70	0.70
44:UC:115:VAL:HG13	44:UC:116:ASP:OD1	1.91	0.70
44:UC:236:SER:O	44:UC:240:ALA:N	2.24	0.70
45:UD:50:TYR:OH	45:UD:134:GLN:OE1	2.05	0.70
44:UG:105:ARG:HA	44:UG:109:THR:CG2	2.21	0.70
44:UG:106:GLY:O	44:UG:149:LEU:HD22	1.90	0.70
44:UK:207:GLU:HG2	44:UK:304:LYS:NZ	2.06	0.70
45:VB:237:THR:HG23	45:VB:241:ARG:NE	2.06	0.70
44:VC:76:ASP:OD1	44:VC:77:GLU:N	2.24	0.70
44:VC:89:PRO:HG3	44:WC:280:LYS:HD2	1.71	0.70
44:VC:407:TRP:CH2	45:VD:258:ILE:HB	2.26	0.70
45:VD:101:TRP:CD1	45:VD:105:HIS:HB2	2.26	0.70
45:VD:309:ARG:NE	45:VD:342:VAL:HA	2.06	0.70
45:VH:142:GLY:N	48:VH:501:GDP:O2B	2.24	0.70
44:VI:147:SER:O	44:VI:151:SER:N	2.20	0.70
45:VJ:257:LEU:HA	45:VJ:312:THR:HG21	1.72	0.70
44:VK:141:VAL:HG22	44:VK:187:SER:HA	1.71	0.70
44:VK:180:ALA:HA	45:VL:256:ASN:HD21	1.55	0.70
44:VK:224:TYR:HD1	44:VK:227:LEU:HD12	1.54	0.70
44:VM:76:ASP:OD2	45:VN:46:ARG:NH2	2.24	0.70
45:WB:42:LEU:HD23	45:WB:356:ILE:HD11	1.72	0.70
45:WD:399:THR:HA	45:WD:403:MET:O	1.91	0.70
44:WG:398:MET:HE2	45:WH:346:PRO:HD2	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WH:101:TRP:CE3	45:WH:187:LEU:HD13	2.25	0.70
44:WK:304:LYS:HZ1	44:WK:390:ARG:HD2	1.56	0.70
44:WK:326:LYS:HE2	45:WN:220:PRO:HG2	1.71	0.70
45:WL:313:ALA:HB3	45:WL:349:ILE:HA	1.73	0.70
3:0B:240:TRP:CZ3	45:JL:215:LEU:HD11	2.26	0.70
15:0V:96:ASN:ND2	45:LN:261:PRO:HG2	2.06	0.70
2:1A:74:SER:HA	44:AE:219:ILE:CD1	2.13	0.70
16:3X:100:LYS:HA	44:MK:282:TYR:CE2	2.24	0.70
35:4R:500:VAL:HG21	45:EF:32:PRO:HD2	1.71	0.70
37:5D:23:LEU:HD21	45:KN:412:GLU:OE1	1.90	0.70
37:5D:46:ILE:CG2	44:KK:434:GLU:HG2	2.21	0.70
35:5R:17:PHE:HD2	45:LJ:217:LEU:HD13	1.56	0.70
35:7R:9:VAL:HG21	35:7R:15:HIS:CD2	2.26	0.70
44:AG:105:ARG:O	44:AG:110:ILE:HG22	1.91	0.70
45:AN:8:GLN:HE22	45:AN:17:GLY:CA	2.03	0.70
44:BA:257:THR:HA	45:BD:397:TRP:NE1	2.06	0.70
45:BD:178:THR:HB	45:BD:181:GLU:OE2	1.91	0.70
45:BF:21:TRP:CZ3	45:BF:61:PRO:HB3	2.26	0.70
45:BF:133:PHE:HB2	45:BF:164:MET:HE3	1.73	0.70
45:BF:193:VAL:HA	45:BF:264:HIS:CE1	2.26	0.70
45:BF:286:VAL:HG13	45:BF:329:GLN:HE22	1.54	0.70
44:BG:222:PRO:CG	45:BH:324:LYS:HD3	2.21	0.70
44:BM:63:PRO:HG2	44:BM:86:LEU:HG	1.72	0.70
44:CA:88:HIS:HA	44:DA:280:LYS:HZ3	1.55	0.70
45:CB:256:ASN:HD21	44:CC:180:ALA:HA	1.54	0.70
44:CC:200:VAL:HG13	44:CC:268:MET:SD	2.31	0.70
44:CE:363:VAL:CG2	44:CE:364:PRO:HD2	2.21	0.70
44:CG:289:ALA:O	44:CG:292:THR:HG22	1.91	0.70
45:CH:8:GLN:NE2	45:CH:14:ASN:HA	2.06	0.70
45:CH:22:GLU:HG2	45:CH:81:PHE:CD1	2.27	0.70
45:CJ:139:LEU:HD23	45:CJ:188:SER:OG	1.91	0.70
45:CJ:268:ILE:HG13	45:CJ:300:MET:HE2	1.73	0.70
44:CK:104:ALA:HB1	44:CK:411:GLU:O	1.90	0.70
44:CK:164:LYS:HD3	44:CK:165:SER:O	1.90	0.70
45:CN:87:PRO:HA	45:CN:90:PHE:CD2	2.26	0.70
44:DC:168:GLY:O	44:DC:201:ALA:HA	1.91	0.70
44:DC:346:TRP:CD1	45:DD:391:ARG:HG3	2.26	0.70
44:DE:91:GLN:HG3	44:DE:121:ARG:HD2	1.73	0.70
45:DF:3:GLU:HG3	45:DF:62:ARG:HH12	1.55	0.70
44:DK:11:GLN:HG3	44:DK:74:VAL:CG1	2.12	0.70
44:EC:4:VAL:HG23	44:EC:134:GLY:O	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:319:TYR:CD2	44:EC:375:VAL:HB	2.26	0.70
45:ED:315:ALA:N	45:ED:350:LYS:O	2.25	0.70
45:EF:252:LYS:HG2	45:EF:350:LYS:HE2	1.72	0.70
44:EG:174:SER:CB	44:EG:207:GLU:HG3	2.21	0.70
45:EH:238:CYS:HB2	45:EH:318:ARG:NE	2.06	0.70
44:EI:287:SER:O	44:EI:291:ILE:HG23	1.91	0.70
44:EI:298:PRO:HB2	44:EI:308:ARG:CZ	2.21	0.70
44:EK:66:VAL:HG23	44:EK:91:GLN:O	1.91	0.70
44:EK:217:LEU:HA	44:EK:277:SER:OG	1.90	0.70
44:EK:292:THR:HG21	44:EK:331:SER:CB	2.21	0.70
45:FB:309:ARG:HH12	45:FB:311:LEU:HD23	1.56	0.70
45:FD:363:MET:HE2	45:FD:363:MET:HA	1.72	0.70
44:FG:141:VAL:HG22	44:FG:187:SER:HA	1.72	0.70
45:FH:86:ARG:NH1	45:GH:278:SER:O	2.24	0.70
45:FH:116:VAL:O	45:FH:119:VAL:HG12	1.91	0.70
44:FK:320:ARG:NE	44:FK:360:PRO:HG3	2.05	0.70
45:FL:36:TYR:CE1	45:FL:44:LEU:HD21	2.26	0.70
45:FN:257:LEU:O	45:FN:312:THR:HG21	1.91	0.70
44:GA:392:ASP:OD2	44:GA:422:ARG:NH1	2.24	0.70
45:GB:319:GLY:HA2	45:GB:357:PRO:HD3	1.73	0.70
45:GF:318:ARG:HH11	45:GF:358:PRO:HG3	1.56	0.70
45:GF:342:VAL:CG1	45:GF:345:ILE:HD13	2.20	0.70
45:GH:97:ALA:CB	45:GH:143:THR:HB	2.21	0.70
45:GL:86:ARG:NH2	45:GL:123:GLU:OE2	2.24	0.70
44:HG:238:LEU:HD21	44:HG:255:PHE:HE2	1.55	0.70
45:HH:101:TRP:CE3	45:HH:187:LEU:HD13	2.26	0.70
45:HH:239:CYS:HB3	45:HH:354:CYS:HB2	1.74	0.70
44:HI:174:SER:HB2	44:HI:177:VAL:O	1.91	0.70
45:IB:242:PHE:CB	45:IB:356:ILE:HD13	2.20	0.70
45:IF:399:THR:HA	45:IF:403:MET:O	1.89	0.70
44:IG:239:THR:O	44:IG:243:ARG:NE	2.24	0.70
44:IK:201:ALA:HB3	44:IK:267:PHE:CD1	2.26	0.70
44:JA:1:MET:CE	45:JD:70:PRO:HG2	2.20	0.70
44:JA:68:LEU:HD23	44:JA:93:ILE:HB	1.73	0.70
44:JC:340:THR:HG23	44:JC:341:ILE:HG13	1.73	0.70
44:JG:191:THR:HA	44:JG:194:LEU:HG	1.71	0.70
44:JI:141:VAL:HG21	44:JI:172:TYR:HE1	1.56	0.70
44:JI:261:PRO:HA	45:JL:394:PHE:HD2	1.54	0.70
45:JL:208:TYR:CE1	45:JL:225:LEU:HD11	2.23	0.70
44:KA:179:THR:HG23	45:KB:351:SER:OG	1.91	0.70
44:KA:296:PHE:HE2	44:KA:335:ILE:HG21	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:16:ILE:HD11	48:KB:501:GDP:HN21	1.56	0.70
44:KC:70:LEU:HD11	44:KC:149:LEU:CD2	2.20	0.70
45:KF:47:ILE:HD13	45:KF:59:TYR:HE2	1.56	0.70
44:KG:254:GLU:OE1	45:KJ:99:ASN:ND2	2.23	0.70
45:KJ:3:GLU:OE2	45:KJ:127:CYS:HB2	1.91	0.70
44:KM:224:TYR:CG	45:KN:323:THR:HG21	2.25	0.70
45:KN:265:PHE:HB3	45:KN:374:ILE:HD13	1.71	0.70
45:KN:313:ALA:O	45:KN:349:ILE:HD12	1.90	0.70
44:LA:394:LYS:HG2	45:LB:346:PRO:HG2	1.73	0.70
45:LD:268:ILE:N	45:LD:299:MET:HE1	2.06	0.70
44:LE:335:ILE:HD13	44:LE:338:LYS:HE2	1.73	0.70
44:LI:205:ASP:OD2	44:LI:304:LYS:N	2.17	0.70
45:LJ:161:ASP:OD2	45:LJ:162:ARG:NH1	2.24	0.70
45:MB:13:GLY:O	45:MB:16:ILE:HG22	1.90	0.70
44:ME:221:ARG:HG2	45:MF:321:MET:HE1	1.73	0.70
44:MG:434:GLU:O	44:MG:437:ILE:HG12	1.91	0.70
45:MJ:34:GLY:HA3	45:MJ:58:ARG:HG2	1.73	0.70
45:MJ:178:THR:N	45:MJ:181:GLU:OE2	2.24	0.70
44:MK:221:ARG:NH1	45:ML:325:GLU:OE1	2.23	0.70
45:ML:109:GLY:HA2	45:ML:147:MET:CE	2.21	0.70
44:NA:2:ARG:HB2	44:NA:133:GLN:CG	2.20	0.70
45:NB:100:ASN:HB3	45:NB:103:LYS:HB3	1.73	0.70
45:NB:217:LEU:HD11	45:NB:220:PRO:HB3	1.71	0.70
44:NC:287:SER:O	44:NC:291:ILE:HG23	1.91	0.70
44:NE:407:TRP:HH2	45:NF:254:ALA:HB1	1.54	0.70
44:OC:76:ASP:OD2	45:OD:46:ARG:NH2	2.24	0.70
45:OD:130:LEU:HD22	45:OD:162:ARG:CG	2.21	0.70
44:OE:229:ARG:NH2	44:OE:363:VAL:HG21	2.06	0.70
44:OE:259:LEU:HD11	44:OE:316:SER:CB	2.20	0.70
45:OF:10:GLY:O	45:OF:14:ASN:ND2	2.24	0.70
45:OF:193:VAL:HA	45:OF:264:HIS:NE2	2.05	0.70
44:OM:386:GLU:O	44:OM:389:SER:OG	2.03	0.70
44:OM:390:ARG:HG3	44:OM:391:LEU:HD12	1.73	0.70
45:ON:204:ASN:OD1	45:ON:205:GLU:N	2.24	0.70
45:ON:342:VAL:HG12	45:ON:348:ASN:HD22	1.56	0.70
44:PA:60:LYS:HE3	44:PA:86:LEU:HD12	1.73	0.70
44:PE:200:VAL:HG22	44:PE:259:LEU:HD11	1.72	0.70
44:PG:55:GLU:OE1	44:PG:61:HIS:NE2	2.24	0.70
44:QC:2:ARG:HD2	44:QC:242:LEU:O	1.90	0.70
44:QC:31:GLN:HE21	44:QC:35:GLN:H	1.38	0.70
45:QF:45:GLU:C	45:QF:46:ARG:HD2	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:115:VAL:CG2	44:QI:156:ARG:HD2	2.22	0.70
44:QK:269:LEU:O	44:QK:379:SER:N	2.19	0.70
45:RJ:22:GLU:HG2	45:RJ:81:PHE:CG	2.26	0.70
45:RL:135:ILE:HG13	45:RL:152:ILE:CD1	2.20	0.70
45:RL:314:SER:OG	45:RL:350:LYS:O	2.05	0.70
45:RN:105:HIS:CD2	45:RN:150:LEU:HB2	2.26	0.70
45:RN:268:ILE:HG22	45:RN:368:VAL:HG22	1.73	0.70
44:SA:74:VAL:HG23	44:SA:75:ILE:HG12	1.73	0.70
44:SC:145:THR:HG21	46:SC:501:GTP:O3G	1.90	0.70
45:SD:173:PRO:O	45:SD:176:SER:OG	2.10	0.70
44:SE:209:ILE:HG12	44:SE:302:MET:HE3	1.71	0.70
44:SM:295:ALA:HB2	44:SM:375:VAL:HG11	1.71	0.70
45:SN:7:ILE:HG21	45:SN:66:MET:HE3	1.73	0.70
44:TC:101:ASN:HA	44:TC:144:GLY:CA	2.21	0.70
45:TF:132:GLY:HA2	45:TF:162:ARG:HB3	1.72	0.70
45:TH:293:MET:HG3	45:TH:367:PHE:HB2	1.73	0.70
44:TM:195:LEU:HD13	44:TM:428:LEU:HD22	1.73	0.70
45:TN:291:GLN:NE2	45:TN:292:GLN:HB2	2.05	0.70
45:UJ:55:THR:HG23	45:VJ:283:ALA:CA	2.14	0.70
45:UJ:173:PRO:HG2	45:UJ:380:ARG:HB2	1.73	0.70
45:UJ:178:THR:CG2	45:UJ:180:VAL:HG12	2.21	0.70
44:UK:288:VAL:HA	44:UK:291:ILE:CD1	2.20	0.70
45:UL:178:THR:HB	45:UL:181:GLU:CG	2.21	0.70
45:UL:204:ASN:OD1	45:UL:205:GLU:N	2.24	0.70
45:UL:325:GLU:H	44:UM:221:ARG:NH1	1.89	0.70
44:VC:72:PRO:HG3	44:VC:95:GLY:O	1.91	0.70
44:VC:141:VAL:HA	44:VC:147:SER:HB3	1.73	0.70
45:VD:164:MET:HE2	45:VD:166:THR:HG23	1.73	0.70
44:VG:13:GLY:O	44:VG:17:GLY:N	2.22	0.70
45:VJ:51:TYR:CE1	45:VJ:61:PRO:HG3	2.26	0.70
45:VL:233:MET:HA	45:VL:233:MET:HE2	1.71	0.70
45:VL:315:ALA:N	45:VL:350:LYS:O	2.23	0.70
44:VM:246:GLY:CA	44:VM:356:ASN:HA	2.20	0.70
45:VN:22:GLU:HG2	45:VN:81:PHE:CD2	2.26	0.70
45:VN:99:ASN:CA	45:VN:142:GLY:HA3	2.21	0.70
45:VN:152:ILE:HG23	45:VN:164:MET:CE	2.21	0.70
45:VN:262:ARG:NH1	45:VN:421:GLU:OE1	2.23	0.70
44:WA:7:ILE:HB	44:WA:137:VAL:HG22	1.73	0.70
44:WC:141:VAL:CG2	44:WC:187:SER:HA	2.22	0.70
45:WD:1:MET:O	45:WD:2:ARG:HG2	1.91	0.70
45:WD:25:SER:HB2	45:WD:81:PHE:HE2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:100:ALA:HA	45:WF:252:LYS:CD	2.21	0.70
45:WF:110:ALA:O	45:WF:113:ILE:HG22	1.91	0.70
44:WI:242:LEU:CD1	44:WI:252:ILE:HG13	2.21	0.70
45:WJ:1:MET:O	45:WJ:2:ARG:HG2	1.90	0.70
45:WL:3:GLU:OE2	45:WL:127:CYS:HB2	1.91	0.70
44:WM:3:GLU:HA	44:WM:51:THR:CA	2.19	0.70
5:2D:224:ARG:NH2	35:5R:586:TYR:HA	2.06	0.70
32:2I:32:PHE:CE2	44:GG:177:VAL:HG21	2.27	0.70
26:2R:153:LYS:HZ3	44:AG:245:ASP:HB2	1.55	0.70
22:3L:42:LYS:HZ3	45:BB:42:LEU:HD22	1.57	0.70
11:5Q:61:ALA:HB2	11:5Q:154:VAL:HG23	1.71	0.70
35:5R:206:ASN:HB2	35:5R:210:GLU:OE2	1.90	0.70
36:5S:180:VAL:HA	36:5S:183:TYR:CE1	2.27	0.70
11:6Q:22:LEU:HB2	11:6Q:25:TRP:HB2	1.74	0.70
11:6Q:102:ARG:CG	11:6Q:118:ILE:HG22	2.20	0.70
35:7R:33:LEU:HD21	35:7R:36:ASN:CA	2.20	0.70
35:7R:222:PRO:HA	35:7R:224:ASN:H	1.56	0.70
35:7R:388:TYR:HA	45:EB:276:ARG:CZ	2.20	0.70
43:8P:7:UNK:O	43:8P:11:UNK:N	2.23	0.70
43:8P:245:UNK:O	43:8P:249:UNK:N	2.24	0.70
43:8R:337:UNK:O	43:8R:341:UNK:N	2.23	0.70
44:AA:174:SER:HB2	44:AA:177:VAL:O	1.91	0.70
44:AA:175:PRO:HB3	44:AA:390:ARG:CZ	2.21	0.70
45:AB:314:SER:N	45:AB:368:VAL:O	2.22	0.70
44:AC:395:PHE:CD1	44:AC:422:ARG:HD3	2.25	0.70
45:AD:42:LEU:HA	45:AD:45:GLU:HG3	1.73	0.70
45:AJ:302:ALA:HB3	45:AJ:377:MET:HE1	1.72	0.70
45:BD:105:HIS:CD2	45:BD:150:LEU:HB3	2.27	0.70
45:BD:105:HIS:NE2	45:BD:150:LEU:HB3	2.06	0.70
44:BE:91:GLN:HA	44:BE:121:ARG:NH1	2.06	0.70
45:BF:99:ASN:CA	45:BF:142:GLY:HA3	2.21	0.70
44:BK:60:LYS:NZ	44:BK:85:GLN:O	2.24	0.70
45:BN:148:GLY:O	45:BN:152:ILE:HD12	1.91	0.70
44:CA:258:ASN:HD21	45:CB:178:THR:HG23	1.53	0.70
45:CB:269:GLY:HA2	45:CB:300:MET:HG2	1.72	0.70
44:CE:262:TYR:HB3	44:CE:263:PRO:HD2	1.74	0.70
44:CE:269:LEU:HD22	44:CE:303:ALA:CB	2.21	0.70
45:CF:346:PRO:HD2	44:CG:398:MET:CE	2.21	0.70
45:CH:259:PRO:HA	44:CI:404:PHE:CE2	2.27	0.70
45:CL:97:ALA:CB	45:CL:143:THR:HB	2.21	0.70
44:DA:276:ILE:HD13	44:DA:281:ALA:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:6:HIS:HE1	45:DB:136:THR:HG23	1.53	0.70
45:DB:97:ALA:CB	45:DB:143:THR:HB	2.20	0.70
45:DD:141:GLY:HA3	48:DD:501:GDP:O3A	1.90	0.70
45:DD:198:GLU:OE2	45:DD:254:ALA:HB2	1.90	0.70
45:DD:343:GLU:OE2	45:DD:430:ALA:N	2.23	0.70
45:DL:21:TRP:CZ3	45:DL:50:TYR:HB3	2.25	0.70
44:DM:145:THR:HG22	46:DM:501:GTP:PG	2.31	0.70
44:EA:8:HIS:CD2	44:EA:17:GLY:HA3	2.26	0.70
44:EA:260:VAL:HG13	44:EA:265:ILE:O	1.91	0.70
45:ED:49:VAL:HG11	45:ED:241:ARG:CD	2.22	0.70
45:ED:420:SER:O	45:ED:424:GLN:HG2	1.91	0.70
45:EH:113:ILE:HD12	45:EH:150:LEU:CD2	2.22	0.70
45:EJ:312:THR:HA	45:EJ:348:ASN:HB2	1.72	0.70
44:EK:271:SER:HB2	44:EK:377:MET:SD	2.32	0.70
44:EK:287:SER:O	44:EK:291:ILE:HG23	1.91	0.70
44:EM:434:GLU:O	44:EM:437:ILE:HG12	1.92	0.70
44:FC:176:GLN:O	45:FD:347:ASN:ND2	2.24	0.70
45:FD:257:LEU:HD13	45:FD:312:THR:CG2	2.22	0.70
45:FD:274:THR:HG21	45:FD:279:GLN:HA	1.72	0.70
45:FD:325:GLU:HA	45:FD:328:GLU:CG	2.20	0.70
44:FI:221:ARG:CZ	45:FJ:322:SER:HB3	2.21	0.70
45:FJ:86:ARG:HH21	45:FJ:87:PRO:HG2	1.55	0.70
45:FN:257:LEU:HB3	45:FN:266:PHE:CZ	2.26	0.70
45:FN:330:MET:CA	45:FN:333:VAL:HG12	2.21	0.70
44:GA:109:THR:OG1	44:GA:411:GLU:OE1	2.09	0.70
44:GA:212:ILE:HD11	44:GA:299:ALA:O	1.91	0.70
45:GB:52:ASN:N	45:GB:60:VAL:O	2.20	0.70
45:GL:19:LYS:HA	45:GL:22:GLU:HB2	1.73	0.70
45:HD:60:VAL:HG21	45:HD:86:ARG:HG2	1.73	0.70
45:HH:190:HIS:O	45:HH:193:VAL:HG12	1.91	0.70
44:HI:19:ALA:HA	44:HI:22:GLU:OE1	1.91	0.70
45:IB:398:TYR:HB3	45:IB:403:MET:CE	2.21	0.70
44:IG:261:PRO:HA	45:IJ:394:PHE:CD2	2.25	0.70
44:IK:356:ASN:OD1	44:IK:357:TYR:N	2.23	0.70
45:IL:8:GLN:O	45:IL:66:MET:HG2	1.91	0.70
45:IN:97:ALA:HB3	45:IN:143:THR:HB	1.73	0.70
45:IN:344:TRP:CZ3	45:IN:345:ILE:HB	2.26	0.70
44:JA:261:PRO:HA	45:JD:394:PHE:CD2	2.26	0.70
45:JF:62:ARG:HG3	45:JF:62:ARG:O	1.91	0.70
44:JI:261:PRO:HA	45:JL:394:PHE:CD2	2.27	0.70
44:JI:332:ILE:HD11	44:JI:351:PHE:CE1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:200:MET:HA	45:JJ:266:PHE:O	1.92	0.70
45:JJ:372:THR:O	45:JJ:375:GLN:HG2	1.91	0.70
44:JK:268:MET:SD	44:JK:378:ILE:HG22	2.32	0.70
45:JL:67:ASP:HB3	45:JL:73:MET:SD	2.32	0.70
44:KC:54:SER:O	44:KC:61:HIS:HA	1.91	0.70
44:KE:7:ILE:HA	44:KE:66:VAL:HG22	1.72	0.70
44:KE:325:PRO:O	44:KE:328:VAL:HG12	1.91	0.70
44:KG:298:PRO:HG3	44:KG:308:ARG:HD3	1.72	0.70
44:KI:212:ILE:HD13	44:KI:300:ASN:HA	1.72	0.70
45:KL:117:LEU:HD11	45:KL:154:LYS:HE3	1.74	0.70
44:KM:406:HIS:O	44:KM:409:VAL:HG12	1.92	0.70
45:KN:340:TYR:HB2	45:KN:341:PHE:HE2	1.56	0.70
44:LA:392:ASP:OD2	44:LA:422:ARG:NH1	2.24	0.70
45:LB:138:SER:HA	45:LB:169:VAL:CB	2.18	0.70
45:MD:84:LEU:O	45:MD:86:ARG:NH1	2.22	0.70
44:MG:258:ASN:HD22	45:MJ:179:VAL:HG22	1.56	0.70
45:MJ:141:GLY:HA3	48:MJ:502:GDP:O3A	1.91	0.70
44:MM:170:THR:O	44:MM:204:LEU:N	2.24	0.70
44:MM:209:ILE:CD1	44:MM:302:MET:HG3	2.22	0.70
44:NA:326:LYS:HD3	45:ND:220:PRO:HD2	1.73	0.70
45:NB:21:TRP:CZ3	45:NB:61:PRO:HB3	2.25	0.70
45:NB:211:CYS:CA	45:NB:215:LEU:HB2	2.19	0.70
44:NG:288:VAL:HG22	44:NG:373:ARG:HD3	1.72	0.70
45:NH:207:LEU:HD21	45:NH:229:VAL:HG23	1.73	0.70
44:NK:287:SER:HA	44:NK:373:ARG:NH1	2.05	0.70
45:OD:196:ALA:HB3	45:OD:264:HIS:CE1	2.27	0.70
45:OD:350:LYS:NZ	45:OD:352:SER:OG	2.17	0.70
45:OJ:173:PRO:HG3	45:OJ:380:ARG:CD	2.22	0.70
44:PA:216:ASN:HB3	44:PA:275:ILE:O	1.92	0.70
44:PE:54:SER:HB3	44:PE:64:ARG:NH2	2.05	0.70
45:PL:271:ALA:HB1	45:PL:272:PRO:HA	1.73	0.70
45:PL:385:PHE:CE2	45:PL:412:GLU:HB2	2.26	0.70
45:PN:156:ARG:NH1	45:PN:162:ARG:O	2.24	0.70
45:PN:317:PHE:CD2	45:PN:365:VAL:HG21	2.25	0.70
45:QF:86:ARG:HH21	45:QF:87:PRO:CG	2.04	0.70
45:QH:304:ASP:HB3	45:QH:307:HIS:CG	2.26	0.70
44:QK:7:ILE:CD1	44:QK:66:VAL:HG12	2.19	0.70
44:QK:141:VAL:HG23	44:QK:190:SER:OG	1.91	0.70
44:RA:234:VAL:O	44:RA:238:LEU:N	2.17	0.70
45:RF:25:SER:HB3	45:RF:30:ILE:HB	1.73	0.70
45:RF:105:HIS:NE2	45:RF:150:LEU:HD13	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:187:SER:O	44:RI:190:SER:OG	2.03	0.70
44:RI:206:ASN:OD1	44:RI:207:GLU:N	2.24	0.70
45:RJ:4:ILE:HD11	45:RJ:50:TYR:OH	1.90	0.70
45:RJ:326:VAL:HG12	45:RJ:330:MET:CE	2.21	0.70
45:RL:322:SER:OG	44:RM:223:THR:HB	1.91	0.70
44:SA:287:SER:O	44:SA:291:ILE:HG23	1.90	0.70
44:SC:269:LEU:HD12	44:SC:301:MET:CE	2.21	0.70
44:SC:434:GLU:O	44:SC:437:ILE:HG12	1.91	0.70
45:SD:186:THR:HA	45:SD:189:VAL:HG22	1.73	0.70
44:SG:362:VAL:HG11	44:SG:370:LYS:HA	1.72	0.70
45:SH:323:THR:O	45:SH:326:VAL:N	2.23	0.70
44:SI:100:ALA:HB3	44:SI:105:ARG:NH2	2.05	0.70
45:SJ:100:ASN:ND2	45:SJ:103:LYS:HB2	2.05	0.70
44:SK:268:MET:HB2	44:SK:379:SER:O	1.90	0.70
45:TD:7:ILE:HB	45:TD:135:ILE:CG1	2.21	0.70
45:TD:278:SER:OG	45:TD:281:TYR:HB2	1.92	0.70
45:TD:383:GLU:O	45:TD:386:THR:HG22	1.91	0.70
44:TG:296:PHE:HE1	44:TG:315:CYS:HG	1.39	0.70
45:TH:4:ILE:HA	45:TH:130:LEU:CD1	2.21	0.70
44:TI:174:SER:HB3	44:TI:207:GLU:CG	2.20	0.70
44:TI:413:MET:CE	44:TI:417:GLU:HG3	2.21	0.70
45:TJ:178:THR:CB	45:TJ:181:GLU:HG3	2.15	0.70
45:TJ:240:LEU:HD12	45:TJ:249:ASP:HB2	1.73	0.70
45:TJ:286:VAL:HG13	45:TJ:317:PHE:HE2	1.56	0.70
45:TL:234:SER:O	45:TL:238:CYS:HB3	1.91	0.70
45:TL:303:ALA:HB1	45:TL:373:ALA:HB3	1.74	0.70
44:TM:76:ASP:O	44:TM:79:ARG:HG2	1.91	0.70
45:TN:133:PHE:O	45:TN:165:GLU:N	2.23	0.70
44:UA:294:SER:O	44:UA:300:ASN:ND2	2.16	0.70
44:UA:408:TYR:HB3	44:UA:413:MET:SD	2.32	0.70
44:UG:22:GLU:HG3	44:UG:83:TYR:OH	1.91	0.70
45:UH:200:MET:HG2	45:UH:266:PHE:HB2	1.72	0.70
44:UK:60:LYS:NZ	44:UK:85:GLN:O	2.18	0.70
44:UK:108:TYR:O	44:UK:112:LYS:NZ	2.24	0.70
44:UK:188:ILE:HD12	44:UK:425:LEU:HD12	1.73	0.70
44:UK:287:SER:HA	44:UK:373:ARG:NH2	2.07	0.70
44:UM:191:THR:O	44:UM:195:LEU:N	2.23	0.70
44:UM:298:PRO:HA	44:UM:301:MET:CG	2.20	0.70
45:VD:47:ILE:HG12	45:VD:51:TYR:HA	1.73	0.70
44:VI:258:ASN:HD21	45:VL:178:THR:HG23	1.55	0.70
44:VI:268:MET:CE	44:VI:380:ASN:HA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:20:PHE:CE1	45:VJ:233:MET:HB3	2.24	0.70
44:VK:243:ARG:HG2	44:VK:244:PHE:CD2	2.26	0.70
44:WC:217:LEU:HB3	44:WC:219:ILE:HG13	1.73	0.70
45:WD:387:ALA:O	45:WD:390:ARG:HG2	1.91	0.70
44:WE:141:VAL:HG11	44:WE:172:TYR:HD1	1.56	0.70
7:0F:141:ILE:HD13	44:GC:280:LYS:HD3	1.72	0.70
5:2D:168:GLY:O	44:EK:84:ARG:NH2	2.24	0.70
13:2T:229:THR:HG21	44:MG:264:ARG:HB2	1.72	0.70
22:3L:57:ARG:NH2	45:AB:44:LEU:O	2.24	0.70
26:3R:70:THR:HG22	45:ML:320:ARG:HH11	1.56	0.70
15:3V:119:ILE:HD12	44:LA:437:ILE:HD11	1.72	0.70
39:5I:95:LEU:CB	39:5I:98:LEU:HB2	2.20	0.70
35:7R:127:ILE:HG21	35:7R:150:ILE:HG13	1.71	0.70
35:7R:189:GLU:HA	35:7R:192:VAL:HG22	1.71	0.70
35:7R:581:THR:OG1	35:7R:584:GLU:OE1	2.07	0.70
43:8R:361:UNK:CB	45:OB:56:GLY:HA2	2.20	0.70
44:AG:268:MET:HG3	44:AG:378:ILE:HG22	1.73	0.70
44:BE:210:TYR:CG	45:BF:324:LYS:HD2	2.26	0.70
45:BF:51:TYR:HE1	45:BF:61:PRO:HG3	1.55	0.70
45:BH:100:ASN:O	45:BH:103:LYS:N	2.24	0.70
44:BK:141:VAL:HG23	44:BK:190:SER:OG	1.90	0.70
44:BK:276:ILE:HG23	44:BK:281:ALA:HB2	1.73	0.70
44:BK:284:GLU:HG3	44:BK:286:LEU:CD2	2.21	0.70
44:BK:434:GLU:O	44:BK:437:ILE:HG12	1.90	0.70
44:CC:119:LEU:HD21	44:CC:156:ARG:HD2	1.73	0.70
44:CC:320:ARG:CG	44:CC:374:ALA:HB3	2.22	0.70
45:CD:135:ILE:HG21	45:CD:152:ILE:HD11	1.72	0.70
45:CD:210:ILE:O	45:CD:214:THR:OG1	2.03	0.70
45:CD:382:ALA:O	45:CD:386:THR:HG23	1.91	0.70
44:CK:145:THR:HG22	46:CK:501:GTP:PG	2.32	0.70
45:CN:94:GLN:NE2	45:CN:95:THR:HG23	2.05	0.70
45:CN:173:PRO:CD	45:CN:380:ARG:HD3	2.20	0.70
45:CN:309:ARG:NH2	45:CN:426:GLN:O	2.25	0.70
44:DA:27:GLU:HB2	44:DA:361:THR:HG21	1.74	0.70
44:DA:67:PHE:CD2	44:DA:92:LEU:HG	2.26	0.70
45:DB:73:MET:HE2	45:DB:90:PHE:CD1	2.27	0.70
45:DH:237:THR:HG23	45:DH:241:ARG:NH2	2.05	0.70
44:DK:132:LEU:CD2	44:DK:164:LYS:HD2	2.17	0.70
44:DK:141:VAL:HG12	44:DK:171:ILE:O	1.92	0.70
45:DL:199:CYS:HB3	45:DL:265:PHE:HA	1.74	0.70
45:DN:109:GLY:HA3	45:DN:147:MET:CE	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:14:ILE:HD11	44:EC:69:ASP:CB	2.22	0.70
44:EC:243:ARG:HG3	44:EC:244:PHE:CD2	2.26	0.70
45:ED:268:ILE:O	45:ED:300:MET:HE3	1.92	0.70
44:EG:174:SER:HB2	44:EG:177:VAL:O	1.92	0.70
44:EG:238:LEU:HD23	44:EG:238:LEU:O	1.90	0.70
44:EI:195:LEU:HD12	44:EI:266:HIS:NE2	2.07	0.70
44:EK:20:CYS:HA	44:EK:232:ALA:HB1	1.71	0.70
45:EN:210:ILE:HG23	45:EN:214:THR:HG21	1.74	0.70
44:FC:101:ASN:ND2	45:FD:252:LYS:HG3	2.06	0.70
44:FC:148:GLY:O	44:FC:151:SER:N	2.24	0.70
44:FE:99:ALA:HB2	44:FE:145:THR:HB	1.73	0.70
45:FF:8:GLN:O	45:FF:66:MET:HG2	1.91	0.70
45:FH:262:ARG:NH1	45:FH:421:GLU:OE1	2.17	0.70
44:FI:187:SER:O	44:FI:190:SER:OG	2.02	0.70
44:FM:89:PRO:HD2	44:GM:283:HIS:CE1	2.25	0.70
44:FM:97:GLU:HG3	44:FM:105:ARG:HH22	1.55	0.70
44:FM:102:ASN:HB3	44:FM:105:ARG:HB2	1.73	0.70
45:FN:103:LYS:CD	45:FN:108:GLU:HG2	2.22	0.70
45:GB:113:ILE:HD11	45:GB:151:LEU:HB2	1.74	0.70
45:GB:318:ARG:HD3	45:GB:358:PRO:CD	2.09	0.70
44:GC:296:PHE:CE2	44:GC:335:ILE:HG21	2.25	0.70
44:GC:411:GLU:HB2	44:GC:413:MET:HE1	1.73	0.70
45:GF:237:THR:HG22	45:GF:250:LEU:HD21	1.73	0.70
45:GF:330:MET:O	45:GF:333:VAL:HG12	1.92	0.70
45:GJ:404:ASP:OD1	45:GJ:407:GLU:HG3	1.92	0.70
44:GM:97:GLU:HG2	44:GM:105:ARG:HH22	1.54	0.70
44:HA:55:GLU:HG3	44:HA:57:GLY:H	1.56	0.70
44:HC:186:ASN:OD1	44:HC:187:SER:N	2.25	0.70
44:HC:254:GLU:OE1	45:HF:98:GLY:HA2	1.91	0.70
44:HE:91:GLN:HG2	44:HE:121:ARG:HD2	1.73	0.70
44:HG:184:PRO:O	44:HG:188:ILE:HG12	1.91	0.70
45:HN:86:ARG:HE	45:HN:87:PRO:HD2	1.56	0.70
45:HN:154:LYS:O	45:HN:157:GLU:HG3	1.92	0.70
45:HN:240:LEU:HD12	45:HN:249:ASP:OD1	1.91	0.70
44:IC:181:VAL:HG13	45:ID:256:ASN:HD21	1.56	0.70
44:II:275:ILE:CD1	44:II:368:LEU:HD11	2.21	0.70
45:IJ:68:LEU:HB2	45:IJ:147:MET:HE1	1.73	0.70
44:IK:348:PRO:HD3	45:IN:388:MET:HE1	1.73	0.70
45:JB:66:MET:HB3	45:JB:91:VAL:HG23	1.73	0.70
44:JC:11:GLN:NE2	45:JD:245:GLN:O	2.24	0.70
44:JE:88:HIS:CE1	44:JE:90:GLU:HG2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:289:ALA:O	44:JG:292:THR:HG22	1.91	0.70
45:JH:285:THR:HB	45:JH:287:PRO:HD2	1.73	0.70
45:JL:49:VAL:HG12	45:JL:50:TYR:HD2	1.56	0.70
44:JM:88:HIS:HA	44:KM:283:HIS:ND1	2.07	0.70
44:JM:104:ALA:O	44:JM:108:TYR:N	2.25	0.70
44:JM:296:PHE:HE2	44:JM:335:ILE:HG13	1.56	0.70
44:JM:320:ARG:HA	44:JM:356:ASN:O	1.91	0.70
45:KD:423:GLN:OE1	45:KD:426:GLN:NE2	2.25	0.70
44:KG:275:ILE:HD13	44:KG:368:LEU:HD11	1.72	0.70
45:KJ:248:SER:HA	45:KJ:252:LYS:HD2	1.72	0.70
44:KK:187:SER:O	44:KK:191:THR:HG23	1.92	0.70
44:KM:224:TYR:CE2	45:KN:246:LEU:HD11	2.26	0.70
44:KM:295:ALA:HB3	44:KM:377:MET:CE	2.21	0.70
45:KN:259:PRO:HG3	45:KN:311:LEU:HD13	1.73	0.70
45:KN:268:ILE:HG13	45:KN:300:MET:HE2	1.73	0.70
44:LA:208:ALA:HB2	44:LA:304:LYS:HE3	1.73	0.70
44:LA:257:THR:HG23	44:LA:258:ASN:HD22	1.57	0.70
45:LH:102:ALA:HB1	45:LH:401:GLU:HG3	1.72	0.70
44:LI:110:ILE:O	44:LI:113:GLU:HG2	1.90	0.70
45:LN:296:ALA:HB1	45:LN:305:PRO:HD2	1.71	0.70
45:MF:68:LEU:HD22	45:MF:147:MET:HE3	1.72	0.70
45:MH:116:VAL:O	45:MH:119:VAL:HG12	1.91	0.70
45:MH:262:ARG:NH1	45:MH:421:GLU:OE1	2.24	0.70
44:MI:407:TRP:CZ2	45:MJ:258:ILE:HD11	2.26	0.70
45:NB:314:SER:N	45:NB:368:VAL:O	2.23	0.70
44:NE:155:GLU:HG2	44:NE:197:HIS:CE1	2.27	0.70
44:NG:262:TYR:HB3	44:NG:263:PRO:HD2	1.74	0.70
44:NI:66:VAL:HG21	44:NI:122:ILE:HD11	1.71	0.70
44:NI:203:MET:HG3	44:NI:384:ILE:CD1	2.21	0.70
44:NI:311:LYS:O	44:NI:381:SER:HB2	1.91	0.70
44:NK:407:TRP:HH2	45:NL:254:ALA:HB1	1.54	0.70
44:NM:55:GLU:HG3	44:NM:57:GLY:H	1.56	0.70
45:NN:5:VAL:CG1	45:NN:62:ARG:HD3	2.19	0.70
45:NN:6:HIS:HB2	45:NN:134:GLN:HE21	1.56	0.70
45:NN:86:ARG:NH2	45:ON:278:SER:HA	2.06	0.70
45:NN:113:ILE:HG12	45:NN:117:LEU:CD2	2.20	0.70
45:NN:213:ARG:HG2	45:NN:297:LYS:NZ	2.06	0.70
44:OA:237:SER:HA	44:OA:320:ARG:HH11	1.56	0.70
44:OC:416:GLY:O	44:OC:420:GLU:HG2	1.92	0.70
44:OG:265:ILE:HD12	44:OG:432:TYR:CE1	2.27	0.70
44:OI:4:VAL:HG22	44:OI:133:GLN:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:311:LEU:O	45:OJ:345:ILE:HD11	1.90	0.70
44:OM:107:HIS:ND1	44:OM:107:HIS:O	2.23	0.70
44:OM:320:ARG:HG3	44:OM:374:ALA:HB3	1.73	0.70
45:ON:239:CYS:HA	45:ON:354:CYS:SG	2.31	0.70
44:PC:268:MET:HB2	44:PC:379:SER:C	2.11	0.70
45:PF:16:ILE:HD12	45:PF:229:VAL:HG11	1.72	0.70
44:PI:318:MET:O	44:PI:375:VAL:HG23	1.90	0.70
44:PK:71:GLU:OE2	44:PK:73:THR:HG23	1.91	0.70
45:QH:73:MET:O	45:QH:76:VAL:HG12	1.91	0.70
44:QI:175:PRO:HB3	44:QI:390:ARG:CD	2.21	0.70
45:QJ:332:ASN:O	45:QJ:336:LYS:HG2	1.91	0.70
45:QL:119:VAL:HA	45:QL:122:LYS:HE3	1.74	0.70
44:RC:262:TYR:OH	45:RD:391:ARG:HB3	1.92	0.70
44:RE:9:VAL:HG23	44:RE:68:LEU:HB3	1.73	0.70
44:RE:81:GLY:O	44:RE:84:ARG:N	2.23	0.70
44:RI:204:LEU:HD23	44:RI:302:MET:CG	2.21	0.70
44:SC:258:ASN:CB	44:SC:352:LYS:HE3	2.20	0.70
44:SE:2:ARG:NH1	44:SE:51:THR:OG1	2.25	0.70
45:SF:166:THR:OG1	45:SF:199:CYS:HA	1.92	0.70
44:SG:89:PRO:HG2	44:TG:280:LYS:HD2	1.73	0.70
45:SJ:309:ARG:NH2	45:SJ:426:GLN:O	2.24	0.70
44:TG:201:ALA:O	44:TG:268:MET:N	2.24	0.70
45:TJ:22:GLU:HG2	45:TJ:81:PHE:CD1	2.26	0.70
44:TM:248:LEU:CG	44:TM:354:GLY:HA2	2.21	0.70
44:UA:301:MET:CE	44:UA:307:PRO:HD3	2.21	0.70
45:UB:22:GLU:HA	45:UB:81:PHE:CD2	2.27	0.70
44:UE:114:ILE:O	44:UE:117:LEU:HG	1.91	0.70
44:UI:174:SER:OG	44:UI:206:ASN:HB2	1.90	0.70
45:UL:173:PRO:HG3	45:UL:380:ARG:HD3	1.72	0.70
45:UL:315:ALA:HB3	45:UL:351:SER:HA	1.73	0.70
45:UN:132:GLY:HA3	45:UN:163:ILE:HG12	1.74	0.70
44:VA:257:THR:HG22	45:VD:397:TRP:CD2	2.26	0.70
45:VD:377:MET:O	45:VD:381:VAL:HG23	1.91	0.70
45:VF:103:LYS:HA	45:VF:107:THR:OG1	1.91	0.70
45:VF:299:MET:HE1	45:VF:305:PRO:HB3	1.72	0.70
45:VH:398:TYR:HB3	45:VH:403:MET:HE1	1.73	0.70
44:WG:141:VAL:HG21	44:WG:187:SER:HA	1.73	0.70
44:WI:395:PHE:HE2	44:WI:422:ARG:HB2	1.56	0.70
45:WJ:360:GLY:O	45:WJ:361:LEU:HD23	1.90	0.70
44:WK:1:MET:HE1	45:WN:94:GLN:HA	1.73	0.70
44:WK:56:THR:HG23	44:WK:58:ALA:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:208:ALA:O	44:WK:212:ILE:HG12	1.92	0.70
44:WM:3:GLU:CA	44:WM:51:THR:HG23	2.22	0.70
44:WM:69:ASP:HB3	44:WM:75:ILE:CD1	2.12	0.70
44:WM:316:SER:N	44:WM:378:ILE:O	2.20	0.70
9:1H:303:GLU:HG3	44:HC:370:LYS:CE	2.22	0.70
19:1I:11:TYR:OH	45:ID:47:ILE:HG12	1.90	0.70
19:1I:88:THR:CG2	45:JD:42:LEU:HD21	2.22	0.70
12:2S:41:SER:CB	44:WG:62:VAL:HG21	2.22	0.70
14:2U:238:SER:HA	45:WJ:33:THR:HG23	1.72	0.70
32:3I:272:ARG:HD3	45:GJ:213:ARG:NH1	2.05	0.70
15:3V:133:TYR:CD2	45:LD:421:GLU:HG3	2.25	0.70
37:5D:39:ARG:HE	44:KK:266:HIS:HB2	1.56	0.70
11:6Q:106:SER:O	11:6Q:123:MET:N	2.25	0.70
35:6R:294:ASN:CG	45:DN:219:THR:H	1.93	0.70
35:7R:410:ARG:NH2	44:DA:57:GLY:O	2.24	0.70
35:7R:459:ALA:HB2	35:7R:467:GLY:HA3	1.73	0.70
43:8P:71:UNK:O	43:8P:75:UNK:N	2.23	0.70
44:BA:328:VAL:O	44:BA:332:ILE:HG12	1.90	0.70
44:BE:69:ASP:OD1	44:BE:70:LEU:N	2.24	0.70
44:BE:115:VAL:HG22	44:BE:119:LEU:HD23	1.74	0.70
44:BE:326:LYS:HZ1	45:BH:175:VAL:HG11	1.57	0.70
44:BI:311:LYS:NZ	44:BI:342:GLN:HG3	2.06	0.70
45:BJ:372:THR:HA	45:BJ:422:TYR:HE2	1.57	0.70
45:BL:186:THR:HA	45:BL:415:MET:HE1	1.73	0.70
45:BN:258:ILE:HD12	45:BN:264:HIS:HB3	1.74	0.70
45:CB:25:SER:O	45:CB:29:GLY:N	2.25	0.70
44:CM:270:SER:CB	44:CM:378:ILE:HD13	2.22	0.70
44:CM:295:ALA:HB1	44:CM:377:MET:HE2	1.73	0.70
45:DB:256:ASN:O	45:DB:257:LEU:HD12	1.91	0.70
45:DD:240:LEU:HD12	45:DD:249:ASP:CA	2.21	0.70
44:DE:69:ASP:OD2	44:DE:74:VAL:HG21	1.91	0.70
44:DG:285:GLN:O	44:DG:287:SER:N	2.25	0.70
45:DH:5:VAL:HG12	45:DH:62:ARG:CD	2.21	0.70
45:DL:113:ILE:HD13	45:DL:150:LEU:HD22	1.71	0.70
45:ED:7:ILE:HB	45:ED:135:ILE:CD1	2.22	0.70
45:ED:116:VAL:CA	45:ED:119:VAL:HG12	2.19	0.70
45:EF:323:THR:HG21	44:EG:224:TYR:CG	2.26	0.70
45:EH:167:PHE:CE2	45:EH:233:MET:HG2	2.27	0.70
44:FA:68:LEU:HD11	44:FA:118:CYS:SG	2.31	0.70
45:GB:104:GLY:O	45:GB:109:GLY:HA3	1.91	0.70
45:GD:389:PHE:HZ	45:GD:405:GLU:HB2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:60:VAL:HG12	45:GF:86:ARG:NE	2.06	0.70
45:GF:395:LEU:O	45:GF:399:THR:HG23	1.91	0.70
45:GH:238:CYS:HB2	45:GH:318:ARG:NE	2.06	0.70
44:GI:102:ASN:OD1	44:GI:105:ARG:N	2.24	0.70
44:GI:137:VAL:HG22	44:GI:167:LEU:O	1.91	0.70
44:GK:253:THR:HG22	44:GK:257:THR:OG1	1.90	0.70
45:GL:8:GLN:O	45:GL:66:MET:HG2	1.92	0.70
45:GL:207:LEU:HD23	45:GL:300:MET:HE2	1.71	0.70
44:GM:296:PHE:HE1	44:GM:377:MET:HE2	1.57	0.70
44:HA:98:ASP:OD1	44:HA:99:ALA:N	2.23	0.70
44:HC:137:VAL:HG12	44:HC:167:LEU:O	1.91	0.70
45:HD:187:LEU:HD11	45:HD:408:PHE:HE1	1.56	0.70
44:HG:383:ALA:O	44:HG:386:GLU:HG2	1.92	0.70
44:HI:11:GLN:HG3	46:HI:501:GTP:O2B	1.92	0.70
44:HM:272:TYR:HD1	44:HM:376:CYS:HB2	1.55	0.70
44:IG:54:SER:HB3	44:IG:64:ARG:CZ	2.21	0.70
44:IG:88:HIS:NE2	44:IG:90:GLU:HG2	2.06	0.70
44:IM:79:ARG:O	44:IM:84:ARG:NE	2.24	0.70
44:IM:271:SER:OG	44:IM:301:MET:HG3	1.92	0.70
44:JC:384:ILE:O	44:JC:387:VAL:HG22	1.91	0.70
44:JG:258:ASN:OD1	45:JJ:179:VAL:HG22	1.91	0.70
44:JG:262:TYR:HB3	44:JG:263:PRO:HD2	1.73	0.70
45:KB:304:ASP:OD2	45:KB:306:ARG:NH2	2.23	0.70
45:KJ:128:ASP:OD1	45:KJ:129:CYS:N	2.24	0.70
45:KJ:139:LEU:CD1	45:KJ:168:SER:HB3	2.22	0.70
45:KJ:178:THR:CG2	45:KJ:180:VAL:HG12	2.22	0.70
45:KN:310:TYR:CD1	45:KN:371:SER:HB2	2.27	0.70
45:LB:206:ALA:O	45:LB:210:ILE:HG13	1.90	0.70
45:LF:91:VAL:HG21	45:LF:116:VAL:CG2	2.18	0.70
44:LG:99:ALA:CB	44:LG:145:THR:HB	2.22	0.70
44:LI:72:PRO:HA	44:LI:75:ILE:HG22	1.72	0.70
45:LL:7:ILE:HD13	45:LL:64:ILE:CD1	2.22	0.70
45:LL:242:PHE:HD2	45:LL:356:ILE:HB	1.56	0.70
44:LM:74:VAL:HG13	45:LN:247:ASN:OD1	1.91	0.70
44:MA:174:SER:HB2	44:MA:177:VAL:O	1.91	0.70
45:MB:50:TYR:HE2	45:MB:241:ARG:HH22	1.37	0.70
44:ME:407:TRP:HZ3	45:MF:255:VAL:HA	1.56	0.70
44:MK:103:PHE:CD2	44:MK:189:LEU:HD23	2.27	0.70
44:MK:103:PHE:HD2	44:MK:189:LEU:HD23	1.56	0.70
44:NA:251:ASP:O	44:NA:254:GLU:N	2.25	0.70
44:NE:270:SER:CB	44:NE:378:ILE:HD13	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:257:THR:HA	45:NN:397:TRP:CH2	2.27	0.70
45:OB:315:ALA:HA	45:OB:366:THR:O	1.92	0.70
45:OD:187:LEU:HD21	45:OD:408:PHE:CE1	2.26	0.70
44:OE:119:LEU:HD11	44:OE:156:ARG:HG3	1.72	0.70
45:OF:63:ALA:O	45:OF:89:ASN:ND2	2.24	0.70
45:OF:282:ARG:HD2	45:OF:283:ALA:N	2.06	0.70
45:OJ:310:TYR:O	45:OJ:342:VAL:N	2.18	0.70
44:OK:251:ASP:N	44:OK:254:GLU:OE1	2.20	0.70
45:OL:113:ILE:HA	45:OL:116:VAL:HG12	1.72	0.70
45:PJ:16:ILE:CD1	45:PJ:229:VAL:HG11	2.20	0.70
45:PL:97:ALA:CB	45:PL:143:THR:HB	2.22	0.70
45:PL:319:GLY:HA2	45:PL:357:PRO:HD3	1.72	0.70
45:PN:135:ILE:N	45:PN:165:GLU:O	2.23	0.70
45:PN:313:ALA:O	45:PN:350:LYS:N	2.24	0.70
45:PN:319:GLY:N	45:PN:354:CYS:O	2.24	0.70
44:QC:88:HIS:CE1	44:QC:90:GLU:HG2	2.26	0.70
44:QC:276:ILE:HD13	44:QC:281:ALA:HA	1.73	0.70
44:QC:310:GLY:HA3	44:QC:383:ALA:HB2	1.73	0.70
44:QC:383:ALA:O	44:QC:386:GLU:HG2	1.91	0.70
45:QD:67:ASP:OD1	45:QD:68:LEU:N	2.24	0.70
45:QD:318:ARG:HH11	45:QD:358:PRO:HG3	1.56	0.70
44:QI:259:LEU:HD21	44:QI:316:SER:HB2	1.73	0.70
44:QK:5:ILE:O	44:QK:136:LEU:N	2.22	0.70
45:QN:172:SER:OG	45:QN:175:VAL:O	2.08	0.70
45:RF:418:LEU:O	45:RF:422:TYR:HB2	1.91	0.70
44:RG:307:PRO:HA	44:RG:383:ALA:HB2	1.73	0.70
45:RH:247:ASN:OD1	44:RI:11:GLN:NE2	2.24	0.70
45:RJ:286:VAL:HA	45:RJ:289:LEU:HB2	1.74	0.70
44:RK:175:PRO:HD2	44:RK:207:GLU:OE1	1.91	0.70
44:RK:329:ASN:HA	44:RK:332:ILE:HB	1.72	0.70
45:RL:116:VAL:HG22	45:RL:120:VAL:CG2	2.22	0.70
45:RL:135:ILE:O	45:RL:167:PHE:N	2.20	0.70
45:RL:223:GLY:O	45:RL:227:HIS:N	2.23	0.70
44:SC:168:GLY:O	44:SC:201:ALA:HA	1.92	0.70
44:SC:352:LYS:HZ3	45:SD:179:VAL:N	1.89	0.70
45:SD:334:GLN:NE2	45:SD:348:ASN:OD1	2.24	0.70
44:SE:150:GLY:HA2	44:SE:153:LEU:HB2	1.72	0.70
45:SF:49:VAL:HG11	45:SF:241:ARG:CD	2.22	0.70
45:SF:272:PRO:HB3	45:SF:292:GLN:HE22	1.56	0.70
44:SI:22:GLU:HA	44:SI:25:CYS:HB2	1.72	0.70
44:SI:320:ARG:HA	44:SI:356:ASN:OD1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:270:SER:HB2	44:SK:377:MET:O	1.92	0.70
44:SK:270:SER:CB	44:SK:378:ILE:HD13	2.21	0.70
45:SL:2:ARG:NH2	44:SM:73:THR:HG1	1.88	0.70
44:SM:56:THR:HG23	44:SM:58:ALA:H	1.56	0.70
44:TA:304:LYS:HG3	44:TA:387:VAL:HG12	1.73	0.70
44:TC:242:LEU:HD21	44:TC:252:ILE:HG13	1.74	0.70
44:TE:70:LEU:HD11	44:TE:149:LEU:CD2	2.21	0.70
45:TH:318:ARG:HB3	45:TH:358:PRO:HD3	1.72	0.70
45:TJ:60:VAL:HB	45:TJ:86:ARG:HD3	1.74	0.70
45:TJ:223:GLY:O	45:TJ:227:HIS:N	2.23	0.70
45:TL:173:PRO:CG	45:TL:380:ARG:HD3	2.20	0.70
45:TL:178:THR:HB	45:TL:181:GLU:CG	2.16	0.70
45:TL:370:ASN:OD1	45:TL:422:TYR:OH	2.10	0.70
44:UA:265:ILE:CD1	44:UA:435:VAL:HG21	2.21	0.70
45:UH:64:ILE:HG23	45:UH:89:ASN:O	1.92	0.70
45:UH:110:ALA:O	45:UH:113:ILE:HG22	1.91	0.70
45:UJ:375:GLN:HB2	45:UJ:379:LYS:NZ	2.06	0.70
45:UL:132:GLY:HA3	45:UL:163:ILE:CG1	2.22	0.70
44:VA:224:TYR:CE2	45:VB:246:LEU:HD11	2.26	0.70
44:VA:404:PHE:CD1	45:VB:259:PRO:HA	2.26	0.70
44:VE:287:SER:O	44:VE:291:ILE:HG23	1.92	0.70
45:VF:17:GLY:O	45:VF:20:PHE:N	2.24	0.70
45:VH:65:LEU:HD13	45:VH:90:PHE:HE1	1.56	0.70
45:VJ:207:LEU:HD13	45:VJ:225:LEU:HB3	1.74	0.70
44:VK:188:ILE:HG23	44:VK:425:LEU:CD1	2.21	0.70
44:VM:284:GLU:HG3	44:VM:286:LEU:CD2	2.21	0.70
44:WA:179:THR:O	45:WB:350:LYS:HA	1.90	0.70
45:WD:274:THR:HG22	45:WD:282:ARG:NH2	2.07	0.70
1:6H:286:GLU:HB2	45:FH:227:HIS:CD2	2.23	0.70
1:6H:295:GLN:OE1	45:FH:360:GLY:C	2.28	0.70
1:6H:330:GLU:OE1	45:FJ:279:GLN:OE1	2.08	0.70
7:0F:188:ILE:HG22	44:EE:89:PRO:HB3	1.74	0.70
19:1I:174:ILE:HD12	45:KH:78:ALA:HB1	1.71	0.70
20:1J:244:LEU:HB2	44:II:221:ARG:HH22	1.54	0.70
21:1K:194:LYS:HB2	45:GD:276:ARG:HE	1.55	0.70
27:1W:106:PHE:HB3	45:LF:362:LYS:NZ	2.03	0.70
27:1W:118:GLY:CA	45:LF:276:ARG:HH12	2.04	0.70
16:2X:29:GLY:CA	45:ML:217:LEU:HD11	2.17	0.70
15:3V:99:PRO:HG2	44:LA:409:VAL:HG11	1.72	0.70
16:4X:70:TYR:CD2	45:LJ:362:LYS:HB2	2.26	0.70
37:5D:107:TYR:H	44:NM:279:GLU:C	1.94	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5K:93:ASP:OD1	44:JM:430:LYS:HB2	1.91	0.70
40:6F:49:ASN:OD1	40:6F:52:GLN:N	2.17	0.70
35:6R:391:PHE:CZ	45:EN:228:LEU:HD23	2.26	0.70
42:8L:152:UNK:O	42:8L:155:UNK:N	2.25	0.70
44:AA:284:GLU:HG3	44:AA:286:LEU:CD2	2.21	0.70
45:AB:141:GLY:O	45:AB:145:SER:N	2.18	0.70
44:AC:200:VAL:HG13	44:AC:268:MET:CE	2.22	0.70
45:AD:318:ARG:NE	45:AD:358:PRO:HD3	2.07	0.70
45:AJ:280:GLN:NE2	45:MJ:58:ARG:HH21	1.90	0.70
45:AN:281:TYR:CB	45:MN:86:ARG:HD3	2.20	0.70
45:AN:316:LEU:O	45:AN:365:VAL:HA	1.91	0.70
45:BD:212:PHE:O	45:BD:216:LYS:HA	1.91	0.70
45:BJ:330:MET:O	45:BJ:333:VAL:HG12	1.90	0.70
44:BK:175:PRO:HA	44:BK:390:ARG:CZ	2.21	0.70
45:BN:211:CYS:HA	45:BN:215:LEU:HD12	1.73	0.70
44:CA:50:ASN:ND2	44:CA:50:ASN:O	2.24	0.70
44:CA:187:SER:O	44:CA:191:THR:HG23	1.92	0.70
44:CA:314:ALA:N	44:CA:380:ASN:HB3	2.06	0.70
45:CD:341:PHE:CZ	45:CD:349:ILE:HD11	2.27	0.70
44:CI:276:ILE:HD13	44:CI:281:ALA:HA	1.73	0.70
44:DA:69:ASP:OD2	44:DA:74:VAL:HG21	1.90	0.70
45:DB:6:HIS:NE2	45:DB:8:GLN:HB3	2.05	0.70
44:DE:37:PRO:O	44:DE:38:SER:HB2	1.90	0.70
44:DI:102:ASN:OD1	44:DI:104:ALA:N	2.17	0.70
45:DJ:24:ILE:O	45:DJ:27:GLU:HG2	1.91	0.70
45:DL:309:ARG:NH2	45:DL:426:GLN:O	2.25	0.70
45:EB:198:GLU:OE2	45:EB:254:ALA:HB2	1.91	0.70
45:EB:246:LEU:HD21	46:EC:501:GTP:H2'	1.72	0.70
44:EC:270:SER:HB3	44:EC:378:ILE:HD13	1.74	0.70
45:ED:217:LEU:HD11	45:ED:220:PRO:HG3	1.74	0.70
45:ED:272:PRO:HG2	45:ED:361:LEU:HD13	1.74	0.70
45:ED:396:HIS:HA	45:ED:399:THR:CG2	2.22	0.70
45:EJ:101:TRP:CZ3	45:EJ:187:LEU:HB3	2.26	0.70
45:EN:200:MET:HE1	45:EN:268:ILE:CG1	2.22	0.70
44:FC:51:THR:HB	44:FC:243:ARG:HG3	1.73	0.70
44:FE:52:PHE:O	44:FE:64:ARG:HG2	1.91	0.70
44:FE:212:ILE:HD11	44:FE:300:ASN:HA	1.72	0.70
45:FF:269:GLY:HA2	45:FF:300:MET:SD	2.31	0.70
45:FH:153:SER:HB2	45:FH:191:GLN:HE21	1.57	0.70
45:FN:309:ARG:NH2	45:FN:426:GLN:O	2.20	0.70
45:GF:22:GLU:HG2	45:GF:81:PHE:CD2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:312:THR:HA	45:GF:342:VAL:CG2	2.22	0.70
44:HA:71:GLU:OE2	45:HB:2:ARG:NE	2.24	0.70
45:HB:101:TRP:HB2	45:HB:184:ASN:CB	2.21	0.70
45:HB:272:PRO:HD3	45:HB:364:ALA:HA	1.72	0.70
44:HK:88:HIS:HB3	44:HK:91:GLN:HG2	1.73	0.70
44:IC:88:HIS:HA	45:JD:281:TYR:CD2	2.26	0.70
45:IJ:167:PHE:CD2	45:IJ:233:MET:HG2	2.26	0.70
45:IJ:285:THR:OG1	45:IJ:288:GLU:HG2	1.92	0.70
44:IK:205:ASP:OD1	44:IK:303:ALA:HA	1.91	0.70
45:JF:227:HIS:O	45:JF:231:ALA:N	2.23	0.70
45:JJ:4:ILE:O	45:JJ:62:ARG:HD2	1.91	0.70
44:JK:247:ALA:HB1	45:JN:222:TYR:CE2	2.25	0.70
44:JK:250:VAL:HG11	44:JK:352:LYS:HZ3	1.56	0.70
45:JL:286:VAL:CG2	45:JL:287:PRO:HD3	2.21	0.70
44:JM:102:ASN:ND2	44:JM:105:ARG:HG3	2.05	0.70
44:KA:296:PHE:HE1	44:KA:377:MET:HE1	1.57	0.70
45:KB:7:ILE:HB	45:KB:135:ILE:HG13	1.73	0.70
45:KF:100:ASN:ND2	45:KF:103:LYS:HG3	2.06	0.70
44:KG:319:TYR:CE2	44:KG:328:VAL:HG12	2.27	0.70
45:KJ:325:GLU:HA	45:KJ:328:GLU:HG2	1.74	0.70
44:LA:153:LEU:O	44:LA:157:LEU:HG	1.92	0.70
44:LA:254:GLU:CG	45:LD:98:GLY:HA2	2.22	0.70
45:LF:135:ILE:HG13	45:LF:164:MET:CE	2.21	0.70
44:LG:384:ILE:O	44:LG:387:VAL:HG22	1.92	0.70
45:MB:330:MET:HG3	45:MB:349:ILE:HD13	1.74	0.70
45:MD:130:LEU:HD21	45:MD:133:PHE:HE1	1.56	0.70
45:MF:231:ALA:HB1	45:MF:270:PHE:CE2	2.27	0.70
45:MF:370:ASN:OD1	45:MF:422:TYR:OH	2.09	0.70
45:MJ:420:SER:O	45:MJ:423:GLN:HG3	1.91	0.70
45:ML:4:ILE:HD11	45:ML:50:TYR:CZ	2.27	0.70
44:NC:295:ALA:HB1	44:NC:377:MET:HE2	1.74	0.70
45:NF:203:ASP:OD2	45:NF:302:ALA:N	2.21	0.70
45:NF:293:MET:SD	45:NF:365:VAL:HG23	2.31	0.70
44:NG:222:PRO:HD2	45:NH:324:LYS:NZ	2.07	0.70
45:NJ:267:MET:HG2	45:NJ:299:MET:HE3	1.72	0.70
45:NJ:289:LEU:HD13	45:NJ:365:VAL:HG21	1.74	0.70
44:NK:222:PRO:HD2	45:NL:324:LYS:HD3	1.74	0.70
44:NM:13:GLY:HA2	44:NM:16:VAL:HG12	1.74	0.70
45:NN:5:VAL:HG12	45:NN:62:ARG:CD	2.22	0.70
44:OA:205:ASP:HB2	44:OA:304:LYS:HZ1	1.56	0.70
45:OD:173:PRO:CD	45:OD:380:ARG:HD2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:305:PRO:HA	45:OD:373:ALA:CB	2.21	0.70
45:OF:6:HIS:HB3	45:OF:63:ALA:CB	2.21	0.70
44:OG:275:ILE:HG23	44:OG:368:LEU:CD1	2.21	0.70
44:OM:271:SER:HA	44:OM:302:MET:HE2	1.72	0.70
45:ON:262:ARG:NH1	45:ON:421:GLU:OE1	2.25	0.70
44:PA:206:ASN:HB3	44:PA:210:TYR:CZ	2.26	0.70
45:PB:316:LEU:HB2	45:PB:366:THR:OG1	1.92	0.70
44:PC:287:SER:HA	44:PC:373:ARG:NH2	2.07	0.70
45:PD:286:VAL:HG11	45:PD:325:GLU:HG2	1.74	0.70
45:PF:180:VAL:HG21	45:PF:398:TYR:OH	1.91	0.70
45:PH:36:TYR:CE1	45:PH:44:LEU:HG	2.26	0.70
44:PI:316:SER:HB2	44:PI:352:LYS:HB3	1.72	0.70
45:PJ:86:ARG:NH2	45:QH:278:SER:HA	2.07	0.70
45:PL:186:THR:O	45:PL:189:VAL:HG12	1.92	0.70
44:QA:68:LEU:HG	44:QA:93:ILE:HD13	1.74	0.70
45:QB:135:ILE:O	45:QB:167:PHE:N	2.21	0.70
45:QB:268:ILE:HG13	45:QB:300:MET:HE2	1.72	0.70
45:QB:318:ARG:NH1	45:QB:358:PRO:HG3	2.07	0.70
44:QC:205:ASP:OD1	44:QC:303:ALA:HA	1.91	0.70
44:QG:67:PHE:HB2	44:QG:92:LEU:CD2	2.21	0.70
44:QK:53:PHE:HE2	44:QK:63:PRO:HG3	1.57	0.70
45:QL:62:ARG:O	45:QL:62:ARG:HG2	1.90	0.70
45:QN:70:PRO:HG3	45:QN:92:PHE:HB2	1.73	0.70
45:RB:251:ARG:NH1	44:RC:100:ALA:HB3	2.07	0.70
45:RD:374:ILE:HA	45:RD:377:MET:HE1	1.73	0.70
45:RF:7:ILE:HB	45:RF:135:ILE:CD1	2.21	0.70
44:RG:200:VAL:CA	44:RG:266:HIS:HB2	2.15	0.70
45:RH:124:ALA:HB1	45:RH:130:LEU:CD2	2.21	0.70
45:RL:309:ARG:O	45:RL:371:SER:OG	2.07	0.70
45:SF:178:THR:HG22	45:SF:180:VAL:H	1.56	0.70
45:SH:22:GLU:HG2	45:SH:81:PHE:HD2	1.55	0.70
45:SN:268:ILE:HB	45:SN:367:PHE:O	1.92	0.70
44:TA:224:TYR:HA	44:TA:227:LEU:HB3	1.72	0.70
45:TD:318:ARG:HG2	45:TD:354:CYS:HB3	1.72	0.70
45:TH:69:GLU:O	45:TH:72:THR:HG22	1.91	0.70
45:TH:304:ASP:OD1	45:TH:306:ARG:NH1	2.25	0.70
44:TI:276:ILE:CD1	44:TI:281:ALA:HA	2.22	0.70
45:TJ:178:THR:N	45:TJ:181:GLU:OE2	2.23	0.70
44:TK:6:SER:O	44:TK:7:ILE:HD13	1.91	0.70
44:TM:256:GLN:HB2	44:TM:260:VAL:HG11	1.73	0.70
45:TN:11:GLN:O	45:TN:15:GLN:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:48:ALA:CB	44:UA:243:ARG:HB2	2.17	0.70
44:UC:271:SER:CA	44:UC:302:MET:HE1	2.21	0.70
45:UD:208:TYR:O	45:UD:211:CYS:HB2	1.91	0.70
44:UE:70:LEU:HD11	44:UE:149:LEU:HD21	1.73	0.70
45:UL:343:GLU:OE2	45:UL:430:ALA:N	2.24	0.70
44:VA:294:SER:OG	44:VA:300:ASN:ND2	2.24	0.70
45:VB:17:GLY:O	45:VB:21:TRP:N	2.21	0.70
44:VC:108:TYR:HA	44:VC:112:LYS:HE3	1.72	0.70
45:VD:303:ALA:HB2	45:VD:377:MET:CE	2.21	0.70
45:VF:110:ALA:O	45:VF:113:ILE:HG22	1.91	0.70
45:VJ:101:TRP:CE3	45:VJ:187:LEU:HD13	2.26	0.70
45:VL:267:MET:HE2	45:VL:299:MET:HB3	1.72	0.70
44:WA:20:CYS:HA	44:WA:232:ALA:HB1	1.74	0.70
44:WA:106:GLY:O	44:WA:153:LEU:HD12	1.91	0.70
44:WA:230:LEU:CD2	44:WA:368:LEU:HD21	2.21	0.70
44:WG:84:ARG:HG3	44:WG:85:GLN:NE2	2.07	0.70
44:WI:88:HIS:CE1	44:WI:90:GLU:HG2	2.27	0.70
3:0B:47:ALA:HB3	45:JH:92:PHE:HZ	1.50	0.70
5:0D:54:PHE:HZ	45:EB:320:ARG:HB3	1.57	0.70
8:0G:162:ALA:HB3	44:KM:45:GLY:CA	2.19	0.70
19:1I:11:TYR:CD1	45:ID:53:GLU:HB2	2.22	0.70
24:2O:210:ILE:HD11	44:VI:278:ALA:O	1.92	0.70
35:4R:318:TYR:CE1	45:CF:273:LEU:HA	2.27	0.70
37:5D:39:ARG:CB	44:KK:266:HIS:HA	2.21	0.70
35:5R:441:LYS:HB2	35:5R:458:THR:CG2	2.21	0.70
40:6F:136:ARG:HD3	45:IH:42:LEU:CD2	2.20	0.70
35:6R:509:ASP:OD1	44:EM:40:LYS:CG	2.31	0.70
35:7R:308:LYS:O	35:7R:310:PRO:HD3	1.91	0.70
44:AA:183:GLU:HG2	44:AA:184:PRO:HD3	1.72	0.70
44:AA:399:TYR:CE1	44:AA:402:ARG:HG2	2.26	0.70
45:AB:137:HIS:O	45:AB:168:SER:HA	1.92	0.70
45:AJ:200:MET:SD	45:AJ:268:ILE:HG21	2.31	0.70
44:AK:350:GLY:HA2	45:AN:179:VAL:HG23	1.73	0.70
45:AN:257:LEU:O	45:AN:259:PRO:HD3	1.91	0.70
44:BE:212:ILE:CD1	44:BE:300:ASN:HA	2.22	0.70
44:BK:221:ARG:CD	45:BL:322:SER:HB3	2.21	0.70
44:BK:262:TYR:HE1	45:BN:393:ALA:HA	1.57	0.70
45:BN:309:ARG:H	45:BN:372:THR:HG1	1.40	0.70
45:CD:255:VAL:HG22	44:CE:407:TRP:HE3	1.55	0.70
45:CH:372:THR:HA	45:CH:422:TYR:CE1	2.26	0.70
44:CK:88:HIS:HE1	44:CK:90:GLU:HG2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:51:TYR:HB3	45:CL:59:TYR:HB3	1.73	0.70
45:CL:310:TYR:O	45:CL:342:VAL:N	2.24	0.70
45:CN:288:GLU:O	45:CN:291:GLN:HG3	1.92	0.70
45:CN:327:ASP:O	45:CN:331:LEU:N	2.23	0.70
45:DB:52:ASN:HB3	45:DB:60:VAL:HG13	1.74	0.70
44:DE:346:TRP:CE3	44:DE:347:CYS:HB2	2.27	0.70
44:DG:133:GLN:O	44:DG:165:SER:OG	2.09	0.70
44:DG:396:ASP:OD1	44:DG:422:ARG:NE	2.24	0.70
45:DJ:324:LYS:HD3	44:DK:222:PRO:HD2	1.73	0.70
45:EB:44:LEU:O	45:EB:47:ILE:HG22	1.90	0.70
45:EB:403:MET:SD	45:EB:403:MET:N	2.62	0.70
44:EI:314:ALA:HB3	44:EI:380:ASN:HD22	1.57	0.70
45:EJ:317:PHE:CE2	45:EJ:326:VAL:HG13	2.27	0.70
44:FC:184:PRO:O	44:FC:188:ILE:HG12	1.91	0.70
44:FC:434:GLU:O	44:FC:437:ILE:HG12	1.90	0.70
45:FD:101:TRP:CE3	45:FD:187:LEU:HD13	2.27	0.70
45:FD:198:GLU:OE2	45:FD:254:ALA:HB2	1.92	0.70
44:FE:406:HIS:ND1	45:FF:261:PRO:HD3	2.06	0.70
45:FH:5:VAL:HG12	45:FH:62:ARG:CD	2.19	0.70
44:FK:273:ALA:HB1	44:FK:274:PRO:HA	1.74	0.70
44:FM:316:SER:O	44:FM:378:ILE:N	2.16	0.70
44:GA:181:VAL:H	45:GB:256:ASN:HD21	1.40	0.70
45:GB:132:GLY:HA3	45:GB:163:ILE:HG13	1.73	0.70
44:GE:19:ALA:HA	44:GE:22:GLU:OE1	1.90	0.70
45:GF:16:ILE:HD13	45:GF:226:ASN:OD1	1.92	0.70
45:GF:135:ILE:O	45:GF:166:THR:HA	1.92	0.70
45:GF:139:LEU:HD23	45:GF:188:SER:OG	1.92	0.70
44:GG:426:ALA:O	44:GG:430:LYS:N	2.25	0.70
45:GH:105:HIS:CD2	45:GH:150:LEU:HB2	2.26	0.70
45:GH:198:GLU:OE2	45:GH:254:ALA:HB2	1.91	0.70
44:GI:3:GLU:HG3	44:GI:51:THR:HA	1.73	0.70
45:GJ:99:ASN:CA	45:GJ:142:GLY:HA3	2.22	0.70
45:GJ:156:ARG:HG2	45:GJ:195:ASN:HB3	1.74	0.70
45:GL:113:ILE:HG12	45:GL:154:LYS:NZ	2.07	0.70
45:HB:315:ALA:O	45:HB:351:SER:HA	1.92	0.70
44:HC:88:HIS:ND1	44:HC:90:GLU:HG2	2.06	0.70
45:HD:416:ASN:O	45:HD:420:SER:N	2.22	0.70
45:HJ:97:ALA:CB	45:HJ:143:THR:HB	2.21	0.70
45:HL:334:GLN:HA	45:HL:341:PHE:CE2	2.26	0.70
44:HM:322:ASP:OD1	44:HM:373:ARG:NH1	2.18	0.70
44:IA:99:ALA:HB2	44:IA:145:THR:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IC:3:GLU:OE2	44:IC:129:CYS:HB3	1.90	0.70
45:IF:49:VAL:HG11	45:IF:241:ARG:CD	2.21	0.70
44:IG:203:MET:HG3	44:IG:384:ILE:HD11	1.72	0.70
45:IH:86:ARG:HH22	44:JE:280:LYS:HA	1.55	0.70
45:IH:114:ASP:OD1	45:IH:115:SER:N	2.24	0.70
45:JB:41:ASP:OD1	45:JB:42:LEU:HD22	1.92	0.70
45:JB:202:ILE:CD1	45:JB:268:ILE:HD11	2.11	0.70
44:JC:80:THR:HA	44:JC:84:ARG:NE	2.05	0.70
45:JD:376:GLU:HA	45:JD:379:LYS:HG2	1.74	0.70
45:JH:2:ARG:HD2	45:JH:240:LEU:HD22	1.74	0.70
45:JN:11:GLN:HA	45:JN:72:THR:HG21	1.72	0.70
44:KE:174:SER:OG	44:KE:207:GLU:OE1	2.10	0.70
44:KG:137:VAL:HG22	44:KG:167:LEU:O	1.92	0.70
45:KL:52:ASN:OD1	45:KL:62:ARG:NH2	2.24	0.70
45:KL:68:LEU:HD23	45:KL:143:THR:OG1	1.91	0.70
44:KM:205:ASP:OD1	44:KM:303:ALA:HA	1.92	0.70
45:KN:185:ALA:O	45:KN:188:SER:OG	2.07	0.70
45:KN:287:PRO:O	45:KN:290:THR:HG22	1.91	0.70
44:LE:216:ASN:HA	44:LE:280:LYS:NZ	2.06	0.70
45:LF:69:GLU:HG2	45:LF:96:GLY:CA	2.21	0.70
45:LN:257:LEU:HD23	45:LN:266:PHE:CD2	2.26	0.70
44:MC:407:TRP:HH2	45:MD:258:ILE:HB	1.55	0.70
45:MF:22:GLU:HG2	45:MF:81:PHE:CG	2.26	0.70
45:NB:86:ARG:HD3	45:OB:281:TYR:HB3	1.73	0.70
44:NC:141:VAL:HG11	44:NC:172:TYR:CD1	2.27	0.70
44:NE:311:LYS:HA	44:NE:311:LYS:HE3	1.71	0.70
44:NE:326:LYS:HD3	45:NH:220:PRO:CD	2.21	0.70
44:NG:4:VAL:HB	44:NG:52:PHE:HE1	1.56	0.70
45:NH:344:TRP:HB3	45:NH:430:ALA:HB2	1.74	0.70
44:NI:90:GLU:CD	44:OI:280:LYS:HE3	2.12	0.70
44:NK:49:PHE:HB2	44:NK:53:PHE:HB2	1.71	0.70
45:NL:316:LEU:HD23	45:NL:352:SER:HB2	1.74	0.70
45:NN:303:ALA:HA	45:NN:376:GLU:OE2	1.91	0.70
44:OA:256:GLN:HE22	45:OD:397:TRP:HE1	1.37	0.70
45:OH:323:THR:O	45:OH:326:VAL:N	2.25	0.70
44:OI:11:GLN:CG	44:OI:74:VAL:HG11	2.22	0.70
44:OI:54:SER:HB3	44:OI:64:ARG:NE	2.06	0.70
45:OL:116:VAL:O	45:OL:120:VAL:HG23	1.92	0.70
45:ON:130:LEU:O	45:ON:162:ARG:NH2	2.25	0.70
44:PA:101:ASN:HA	44:PA:144:GLY:CA	2.21	0.70
44:PA:221:ARG:NH1	45:PB:325:GLU:OE1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PJ:101:TRP:CD2	45:PJ:187:LEU:HD13	2.27	0.70
44:PK:242:LEU:HD21	44:PK:251:ASP:HA	1.73	0.70
44:PK:308:ARG:HG3	44:PK:309:HIS:CD2	2.26	0.70
44:PK:384:ILE:O	44:PK:387:VAL:HG22	1.92	0.70
45:PL:136:THR:HA	45:PL:167:PHE:O	1.90	0.70
45:PL:166:THR:OG1	45:PL:199:CYS:HB2	1.90	0.70
44:QA:9:VAL:HA	44:QA:68:LEU:O	1.91	0.70
44:QA:262:TYR:OH	45:QB:391:ARG:O	2.09	0.70
44:QA:308:ARG:NH1	44:QA:308:ARG:HA	2.06	0.70
44:QA:434:GLU:O	44:QA:437:ILE:HG12	1.92	0.70
45:QF:257:LEU:HD11	45:QF:314:SER:HB2	1.74	0.70
45:QJ:46:ARG:NH2	44:QK:76:ASP:OD2	2.24	0.70
45:QL:215:LEU:HD13	45:QL:217:LEU:HD23	1.73	0.70
44:QM:48:ALA:HB1	44:QM:243:ARG:CG	2.22	0.70
44:QM:138:PHE:CE1	44:QM:169:PHE:HB2	2.26	0.70
44:QM:176:GLN:NE2	44:QM:207:GLU:OE2	2.25	0.70
44:QM:289:ALA:O	44:QM:292:THR:HG22	1.91	0.70
44:RE:287:SER:O	44:RE:291:ILE:HG23	1.92	0.70
44:RG:269:LEU:HB2	44:RG:303:ALA:HB3	1.74	0.70
44:RI:10:GLY:HA2	44:RI:145:THR:CG2	2.21	0.70
44:RI:184:PRO:O	44:RI:188:ILE:HG12	1.91	0.70
44:RI:340:THR:HG23	44:RI:341:ILE:HG13	1.72	0.70
44:RK:51:THR:O	44:RK:64:ARG:NH2	2.24	0.70
44:RM:275:ILE:HG23	44:RM:368:LEU:HD11	1.73	0.70
45:RN:119:VAL:HG22	45:RN:123:GLU:CG	2.21	0.70
45:SB:146:GLY:HA2	45:SB:149:THR:HG22	1.74	0.70
45:SD:73:MET:HA	45:SD:76:VAL:CG2	2.19	0.70
44:SE:69:ASP:OD1	44:SE:70:LEU:N	2.25	0.70
44:SE:268:MET:HG3	44:SE:380:ASN:CB	2.21	0.70
44:SG:259:LEU:HB3	44:SG:380:ASN:ND2	2.06	0.70
45:SH:222:TYR:CD1	45:SH:225:LEU:HD12	2.27	0.70
45:SJ:256:ASN:HD22	45:SJ:350:LYS:HD2	1.54	0.70
44:SM:143:GLY:HA3	46:SM:501:GTP:O2B	1.91	0.70
44:SM:317:MET:O	44:SM:353:VAL:HA	1.92	0.70
45:TB:73:MET:O	45:TB:76:VAL:HG12	1.92	0.70
44:TE:88:HIS:HB3	44:TE:91:GLN:CG	2.21	0.70
44:TE:189:LEU:HD11	44:TE:418:PHE:CE1	2.27	0.70
45:TH:208:TYR:CE1	45:TH:225:LEU:HD11	2.26	0.70
44:TI:206:ASN:O	44:TI:209:ILE:N	2.24	0.70
45:TJ:310:TYR:CE1	45:TJ:371:SER:HB2	2.26	0.70
45:TN:64:ILE:HG23	45:TN:89:ASN:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:34:GLY:HA3	44:UA:60:LYS:NZ	2.06	0.70
44:UA:316:SER:CB	44:UA:352:LYS:HB3	2.21	0.70
44:UC:209:ILE:HD11	44:UC:302:MET:HG3	1.74	0.70
45:UD:212:PHE:O	45:UD:216:LYS:HA	1.91	0.70
44:UE:433:GLU:O	44:UE:437:ILE:HG23	1.91	0.70
44:UG:24:PHE:HZ	44:UG:235:ILE:HG22	1.54	0.70
45:UH:347:ASN:OD1	44:UI:394:LYS:NZ	2.23	0.70
45:UH:423:GLN:NE2	45:UH:427:ASP:OD2	2.25	0.70
44:UI:14:ILE:HD11	44:UI:69:ASP:HB2	1.73	0.70
45:UJ:257:LEU:O	45:UJ:312:THR:HG21	1.92	0.70
45:UN:103:LYS:N	45:UN:401:GLU:OE1	2.25	0.70
44:VA:76:ASP:OD2	45:VB:46:ARG:NH2	2.24	0.70
44:VA:247:ALA:HB1	45:VD:222:TYR:CD2	2.27	0.70
44:VA:256:GLN:HG2	45:VD:397:TRP:HZ2	1.56	0.70
44:VE:237:SER:HA	44:VE:320:ARG:HH11	1.56	0.70
44:VI:21:TRP:HZ2	44:VI:65:ALA:HB2	1.56	0.70
45:VL:343:GLU:OE2	45:VL:430:ALA:N	2.25	0.70
45:WB:200:MET:SD	45:WB:268:ILE:HG21	2.32	0.70
45:WB:239:CYS:SG	45:WB:248:SER:HB3	2.32	0.70
45:WD:51:TYR:HE1	45:WD:61:PRO:HG3	1.56	0.70
45:WD:178:THR:CG2	45:WD:180:VAL:HG12	2.22	0.70
45:WF:63:ALA:HB1	45:WF:65:LEU:CD1	2.21	0.70
45:WF:82:GLY:HA2	45:WF:85:PHE:CE1	2.26	0.70
45:WH:318:ARG:HH11	45:WH:358:PRO:HG3	1.56	0.70
44:WK:258:ASN:HD22	45:WN:179:VAL:HG22	1.54	0.70
44:WK:311:LYS:HB3	44:WK:344:VAL:HG12	1.72	0.70
44:WM:9:VAL:HG21	44:WM:150:GLY:N	2.07	0.70
45:WN:114:ASP:O	45:WN:118:ASP:N	2.21	0.70
45:WN:200:MET:CE	45:WN:267:MET:HA	2.21	0.70
10:0N:3:ASN:HB3	44:IM:96:LYS:HZ1	1.56	0.70
28:2C:1:MET:HA	45:LJ:42:LEU:HD12	1.71	0.70
32:2I:76:PRO:HG3	44:GE:339:ARG:NH2	2.06	0.70
24:2O:177:LYS:HD3	45:VL:362:LYS:HZ3	1.55	0.70
15:2V:98:LEU:HD21	44:LE:405:VAL:HG23	1.73	0.70
39:5K:96:SER:HA	44:JM:434:GLU:HG2	1.74	0.70
40:6F:66:ASN:OD1	40:6F:67:SER:N	2.23	0.70
35:6R:231:TYR:HA	45:CN:218:THR:CG2	2.22	0.70
35:6R:303:PHE:O	45:CN:78:ALA:HA	1.92	0.70
35:6R:321:MET:SD	45:CN:361:LEU:HD21	2.32	0.70
35:7R:586:TYR:O	35:7R:590:ARG:N	2.25	0.70
44:AA:296:PHE:CE2	44:AA:335:ILE:HG21	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:55:THR:N	45:BB:283:ALA:HB2	2.06	0.70
44:AE:51:THR:HG21	44:AE:243:ARG:CD	2.21	0.70
44:AI:181:VAL:HG12	45:AJ:256:ASN:HB3	1.72	0.70
45:AJ:86:ARG:NH1	45:AJ:89:ASN:OD1	2.25	0.70
45:AJ:117:LEU:HD12	45:AJ:120:VAL:HG11	1.73	0.70
45:AJ:396:HIS:HA	45:AJ:399:THR:HG22	1.73	0.70
44:AM:420:GLU:O	44:AM:423:GLU:HG2	1.91	0.70
45:AN:68:LEU:HD13	45:AN:147:MET:CE	2.20	0.70
45:BF:113:ILE:O	45:BF:116:VAL:HG12	1.91	0.70
44:BG:276:ILE:HD11	44:BG:280:LYS:HG3	1.72	0.70
45:BJ:170:VAL:HG11	45:BJ:377:MET:SD	2.31	0.70
45:BJ:173:PRO:HB3	45:BJ:384:GLN:NE2	2.07	0.70
44:BK:1:MET:HE1	45:BN:94:GLN:HB3	1.74	0.70
45:CF:355:ASP:O	45:CF:356:ILE:HD13	1.91	0.70
44:CG:237:SER:HA	44:CG:320:ARG:HH11	1.56	0.70
44:CG:288:VAL:HA	44:CG:291:ILE:HD11	1.74	0.70
45:CL:7:ILE:HB	45:CL:135:ILE:CD1	2.21	0.70
45:CL:14:ASN:O	45:CL:18:ALA:N	2.23	0.70
44:CM:408:TYR:HB3	44:CM:413:MET:CE	2.22	0.70
45:CN:104:GLY:O	45:CN:147:MET:HE2	1.91	0.70
45:CN:396:HIS:HA	45:CN:399:THR:HG22	1.74	0.70
44:DA:326:LYS:HD3	45:DB:212:PHE:HZ	1.55	0.70
44:DG:137:VAL:HG12	44:DG:167:LEU:O	1.92	0.70
45:DH:186:THR:HG23	45:DH:415:MET:CE	2.21	0.70
45:DH:260:PHE:HB3	45:DH:261:PRO:HD2	1.73	0.70
44:DI:123:ARG:HD2	44:DI:161:TYR:OH	1.91	0.70
45:DJ:317:PHE:CD1	45:DJ:365:VAL:HG22	2.27	0.70
44:DM:91:GLN:HG3	44:DM:121:ARG:HD2	1.72	0.70
45:EB:135:ILE:HG21	45:EB:152:ILE:HD11	1.72	0.70
45:ED:86:ARG:HB2	45:ED:89:ASN:OD1	1.91	0.70
45:EH:377:MET:O	45:EH:381:VAL:HG22	1.92	0.70
44:EK:212:ILE:HD12	44:EK:215:ARG:NH2	1.99	0.70
45:FB:252:LYS:HA	45:FB:255:VAL:CG2	2.21	0.70
45:FD:105:HIS:CD2	45:FD:150:LEU:HB2	2.26	0.70
45:FD:313:ALA:HB3	45:FD:349:ILE:HG13	1.74	0.70
45:FF:325:GLU:O	45:FF:329:GLN:NE2	2.24	0.70
44:FK:202:VAL:HA	44:FK:268:MET:O	1.91	0.70
44:FM:311:LYS:HD2	44:FM:342:GLN:HG3	1.73	0.70
45:GB:198:GLU:HG2	45:GB:266:PHE:CE2	2.27	0.70
45:GB:237:THR:HG23	45:GB:241:ARG:NH2	2.06	0.70
44:GC:284:GLU:HG3	44:GC:286:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:33:THR:O	45:GF:58:ARG:NE	2.23	0.70
45:GH:139:LEU:HD23	45:GH:168:SER:HB3	1.74	0.70
44:GI:269:LEU:H	44:GI:269:LEU:HD23	1.57	0.70
44:GK:289:ALA:O	44:GK:293:ASN:N	2.17	0.70
44:GK:347:CYS:HA	45:GN:388:MET:CE	2.22	0.70
44:GM:62:VAL:CG1	44:GM:88:HIS:HB2	2.22	0.70
44:GM:259:LEU:HD11	44:GM:316:SER:HB3	1.74	0.70
45:GN:60:VAL:HG23	45:GN:84:LEU:O	1.92	0.70
45:HF:19:LYS:O	45:HF:23:VAL:N	2.21	0.70
45:HF:139:LEU:HD12	45:HF:188:SER:OG	1.91	0.70
44:HG:254:GLU:CG	45:HJ:98:GLY:HA2	2.21	0.70
44:HI:140:SER:HB2	46:HI:501:GTP:O1A	1.92	0.70
44:HI:224:TYR:HD1	45:HJ:323:THR:HG21	1.55	0.70
44:HI:319:TYR:CE1	44:HI:328:VAL:HG22	2.26	0.70
45:HJ:177:ASP:N	45:HJ:181:GLU:OE2	2.21	0.70
45:HJ:317:PHE:CD1	45:HJ:365:VAL:HG22	2.26	0.70
44:HM:2:ARG:H	44:HM:2:ARG:HD3	1.56	0.70
44:IC:31:GLN:CG	44:IC:37:PRO:HG3	2.20	0.70
44:IC:221:ARG:NH2	45:ID:321:MET:HG3	2.05	0.70
44:IC:291:ILE:CD1	44:IC:373:ARG:HB3	2.22	0.70
45:IF:3:GLU:OE2	45:IF:127:CYS:HB2	1.91	0.70
45:IF:285:THR:O	45:IF:288:GLU:N	2.24	0.70
45:IF:286:VAL:CG2	45:IF:287:PRO:HD3	2.22	0.70
44:IK:195:LEU:O	44:IK:266:HIS:NE2	2.25	0.70
44:JA:168:GLY:O	44:JA:201:ALA:HA	1.91	0.70
45:JB:183:TYR:O	45:JB:186:THR:HG22	1.92	0.70
45:JH:87:PRO:HD3	45:KH:281:TYR:HD2	1.55	0.70
45:JN:3:GLU:O	45:JN:130:LEU:HD12	1.92	0.70
45:JN:45:GLU:HG3	45:JN:46:ARG:HD3	1.73	0.70
45:KF:52:ASN:OD1	45:KF:62:ARG:NH2	2.25	0.70
44:KI:69:ASP:OD1	44:KI:70:LEU:N	2.25	0.70
44:KI:105:ARG:HA	44:KI:109:THR:HG22	1.73	0.70
45:KJ:5:VAL:HG21	45:KJ:123:GLU:HG2	1.72	0.70
45:KJ:8:GLN:NE2	45:KJ:17:GLY:HA3	2.06	0.70
45:LN:178:THR:HG22	45:LN:180:VAL:HG12	1.74	0.70
45:MD:1:MET:O	45:MD:2:ARG:HG2	1.91	0.70
44:ME:306:ASP:HB3	44:ME:309:HIS:ND1	2.05	0.70
44:ME:402:ARG:HB2	44:ME:405:VAL:HG21	1.74	0.70
45:MH:99:ASN:HA	45:MH:142:GLY:H	1.56	0.70
44:MI:434:GLU:O	44:MI:437:ILE:HG12	1.92	0.70
45:MN:97:ALA:O	45:MN:103:LYS:HD2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MN:170:VAL:HG13	45:MN:171:PRO:HD2	1.72	0.70
44:NA:316:SER:N	44:NA:378:ILE:O	2.18	0.70
45:NB:68:LEU:HD23	45:NB:97:ALA:N	2.07	0.70
45:NB:113:ILE:O	45:NB:116:VAL:HG12	1.91	0.70
45:ND:154:LYS:O	45:ND:157:GLU:N	2.19	0.70
44:NE:84:ARG:HG3	44:NE:85:GLN:OE1	1.91	0.70
45:NF:112:LEU:HD23	45:NF:147:MET:HE3	1.72	0.70
45:NL:10:GLY:O	45:NL:14:ASN:N	2.23	0.70
45:NN:305:PRO:HB2	45:NN:310:TYR:OH	1.92	0.70
44:OC:207:GLU:OE2	44:OC:304:LYS:HE3	1.92	0.70
44:OE:313:MET:HA	44:OE:344:VAL:HG12	1.72	0.70
45:OJ:54:ALA:HB1	45:PJ:282:ARG:O	1.92	0.70
45:OL:247:ASN:O	45:OL:252:LYS:HE2	1.91	0.70
44:OM:79:ARG:O	44:OM:84:ARG:HG2	1.92	0.70
45:ON:316:LEU:HD13	45:ON:352:SER:OG	1.91	0.70
44:PA:207:GLU:HA	44:PA:210:TYR:CD2	2.27	0.70
45:PD:47:ILE:HD13	45:PD:59:TYR:CE2	2.27	0.70
45:PD:398:TYR:HB3	45:PD:403:MET:HB3	1.73	0.70
45:PF:193:VAL:HG23	45:PF:264:HIS:HE1	1.57	0.70
45:PH:327:ASP:HA	45:PH:330:MET:HB3	1.73	0.70
44:PM:174:SER:HB2	44:PM:177:VAL:O	1.90	0.70
44:QA:383:ALA:O	44:QA:386:GLU:HG2	1.91	0.70
44:QI:141:VAL:HG11	44:QI:172:TYR:HD1	1.56	0.70
45:QJ:417:ASP:HA	45:QJ:420:SER:HB3	1.72	0.70
44:QK:150:GLY:O	44:QK:154:LEU:N	2.20	0.70
44:QK:242:LEU:HD11	44:QK:252:ILE:HG13	1.72	0.70
45:QL:119:VAL:HG23	45:QL:122:LYS:HE3	1.74	0.70
44:QM:278:ALA:CA	44:QM:369:ALA:HB2	2.21	0.70
45:QN:62:ARG:HB2	45:QN:123:GLU:CD	2.12	0.70
44:RA:115:VAL:CG2	44:RA:156:ARG:HD2	2.21	0.70
45:RB:221:THR:HG23	45:RB:223:GLY:H	1.57	0.70
44:RC:103:PHE:HB2	44:RC:186:ASN:HB2	1.73	0.70
45:RL:372:THR:HA	45:RL:422:TYR:HE2	1.54	0.70
44:RM:13:GLY:O	44:RM:17:GLY:N	2.21	0.70
44:SA:13:GLY:HA2	44:SA:16:VAL:HG12	1.72	0.70
44:SE:206:ASN:O	44:SE:209:ILE:N	2.25	0.70
45:SF:2:ARG:H	45:SF:129:CYS:HB3	1.55	0.70
44:SI:1:MET:HG2	44:SI:2:ARG:HH11	1.56	0.70
44:SI:23:LEU:HD21	44:SI:236:SER:HB2	1.74	0.70
44:SI:248:LEU:HD21	44:SI:353:VAL:CG2	2.21	0.70
44:SM:21:TRP:O	44:SM:25:CYS:N	2.18	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:70:LEU:HD13	44:SM:110:ILE:HD11	1.74	0.70
44:SM:187:SER:O	44:SM:191:THR:N	2.24	0.70
44:SM:203:MET:HB2	44:SM:303:ALA:CB	2.21	0.70
44:TA:248:LEU:HD21	44:TA:353:VAL:HG13	1.74	0.70
44:TC:216:ASN:HB3	44:TC:275:ILE:O	1.91	0.70
44:TC:311:LYS:HD2	44:TC:342:GLN:O	1.91	0.70
44:TE:135:PHE:HB2	44:TE:166:LYS:HG2	1.73	0.70
45:TF:53:GLU:HA	45:TF:59:TYR:CE1	2.27	0.70
45:TF:341:PHE:HB3	45:TF:348:ASN:ND2	2.04	0.70
44:TI:56:THR:HG21	44:TI:60:LYS:HG2	1.74	0.70
45:TJ:1:MET:O	45:TJ:2:ARG:HG2	1.91	0.70
44:TM:193:SER:O	44:TM:197:HIS:HB2	1.92	0.70
45:TN:278:SER:HA	45:TN:281:TYR:CD2	2.23	0.70
45:TN:372:THR:HA	45:TN:422:TYR:CE2	2.26	0.70
45:UB:169:VAL:HG22	45:UB:202:ILE:HB	1.74	0.70
45:UF:317:PHE:HA	45:UF:365:VAL:HG22	1.73	0.70
44:UK:200:VAL:HG13	44:UK:268:MET:CE	2.21	0.70
45:UL:293:MET:CG	45:UL:367:PHE:HB2	2.21	0.70
44:VC:222:PRO:HG2	45:VD:324:LYS:HD3	1.73	0.70
45:VF:207:LEU:HD23	45:VF:300:MET:CE	2.21	0.70
44:VG:352:LYS:HA	45:VJ:177:ASP:O	1.92	0.70
44:VG:439:THR:HG21	45:VJ:390:ARG:HD2	1.72	0.70
44:VI:286:LEU:N	44:VI:290:GLU:OE2	2.24	0.70
45:VN:133:PHE:O	45:VN:164:MET:HA	1.91	0.70
44:WA:87:PHE:HB3	44:WA:92:LEU:HD11	1.73	0.70
44:WA:268:MET:HB2	44:WA:379:SER:O	1.92	0.70
44:WC:184:PRO:O	44:WC:188:ILE:HG12	1.91	0.70
44:WC:261:PRO:HG2	44:WC:313:MET:SD	2.31	0.70
45:WD:73:MET:O	45:WD:76:VAL:HG12	1.92	0.70
45:WD:382:ALA:O	45:WD:386:THR:HG23	1.91	0.70
45:WH:215:LEU:CB	45:WH:217:LEU:HD23	2.21	0.70
44:WI:11:GLN:N	46:WI:501:GTP:O2B	2.24	0.70
44:WK:22:GLU:O	44:WK:26:LEU:N	2.13	0.70
27:2W:190:VAL:HG22	44:KM:47:ASP:HB2	1.73	0.70
22:3L:42:LYS:HZ1	45:BB:42:LEU:HD13	1.54	0.70
37:5D:54:ARG:HD3	44:KK:439:THR:H	1.57	0.70
38:5F:214:LEU:CD2	44:LG:437:ILE:HD11	2.22	0.70
35:6R:300:PHE:CD2	45:CN:77:ARG:CZ	2.75	0.70
45:AD:228:LEU:HD21	45:AD:273:LEU:HD21	1.74	0.70
44:AI:100:ALA:O	45:AJ:255:VAL:HG21	1.92	0.70
45:AJ:371:SER:O	45:AJ:374:ILE:HG23	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:62:ARG:HD2	45:AN:123:GLU:OE2	1.92	0.70
44:BA:49:PHE:HB2	44:BA:53:PHE:HB2	1.74	0.70
44:BA:276:ILE:HD13	44:BA:281:ALA:HA	1.72	0.70
44:BE:237:SER:HA	44:BE:320:ARG:HH21	1.57	0.70
45:BJ:253:LEU:O	45:BJ:257:LEU:HD13	1.91	0.70
44:BM:68:LEU:HD22	44:BM:153:LEU:HD11	1.73	0.70
44:BM:208:ALA:O	44:BM:212:ILE:HG12	1.92	0.70
45:BN:114:ASP:OD1	45:BN:115:SER:N	2.25	0.70
44:CA:183:GLU:HG2	44:CA:184:PRO:HD3	1.74	0.70
44:CA:213:CYS:O	44:CA:219:ILE:N	2.15	0.70
44:CA:311:LYS:O	44:CA:381:SER:HB2	1.91	0.70
44:CC:155:GLU:HG2	44:CC:197:HIS:CD2	2.27	0.70
45:CD:62:ARG:HH12	45:CD:127:CYS:HB3	1.57	0.70
44:CE:88:HIS:CE1	44:CE:90:GLU:HG2	2.27	0.70
44:CI:5:ILE:HD12	44:CI:135:PHE:CE1	2.26	0.70
45:CJ:22:GLU:HG2	45:CJ:81:PHE:HB2	1.74	0.70
44:CM:105:ARG:HA	44:CM:109:THR:CB	2.21	0.70
45:DD:258:ILE:HB	44:DE:407:TRP:CH2	2.27	0.70
44:DE:56:THR:O	44:EE:285:GLN:NE2	2.24	0.70
44:DG:123:ARG:HA	44:DG:161:TYR:OH	1.91	0.70
44:DG:209:ILE:HG22	44:DG:227:LEU:CD2	2.22	0.70
44:EA:50:ASN:HA	44:EA:53:PHE:O	1.92	0.70
44:EA:272:TYR:HD1	44:EA:376:CYS:HB2	1.57	0.70
45:ED:60:VAL:HG11	45:ED:86:ARG:NE	2.07	0.70
45:EF:309:ARG:NH2	45:EF:426:GLN:O	2.25	0.70
44:EK:31:GLN:CG	44:EK:32:PRO:HG2	2.22	0.70
44:EK:70:LEU:HD11	44:EK:149:LEU:CD2	2.21	0.70
45:EL:238:CYS:HB2	45:EL:318:ARG:CZ	2.21	0.70
45:FB:109:GLY:O	45:FB:113:ILE:HG12	1.91	0.70
44:FC:172:TYR:O	44:FC:205:ASP:HA	1.91	0.70
44:FC:426:ALA:HA	44:FC:429:GLU:HB2	1.74	0.70
44:FE:203:MET:HG3	44:FE:384:ILE:CD1	2.21	0.70
44:FK:311:LYS:HD2	44:FK:342:GLN:HG3	1.73	0.70
44:FM:210:TYR:CE1	44:FM:227:LEU:HD21	2.27	0.70
44:GC:243:ARG:HG3	44:GC:244:PHE:CE2	2.26	0.70
44:GE:181:VAL:HG21	45:GF:342:VAL:HA	1.72	0.70
44:GG:363:VAL:HG13	44:GG:364:PRO:HD2	1.72	0.70
45:HB:32:PRO:HG3	45:HB:81:PHE:CZ	2.27	0.70
44:HE:340:THR:HG23	44:HE:341:ILE:CD1	2.19	0.70
44:HK:63:PRO:CD	44:HK:86:LEU:HD11	2.22	0.70
45:HL:2:ARG:NH1	45:HL:240:LEU:HG	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HL:73:MET:HE1	45:HL:92:PHE:CD2	2.27	0.70
44:HM:241:SER:CB	44:HM:242:LEU:HB2	2.17	0.70
44:IA:24:PHE:O	44:IA:27:GLU:HG3	1.91	0.70
44:IC:221:ARG:NH1	45:ID:325:GLU:HG2	2.07	0.70
45:ID:184:ASN:OD1	45:ID:185:ALA:N	2.24	0.70
44:IE:141:VAL:HG11	44:IE:172:TYR:HD1	1.56	0.70
45:IF:325:GLU:HA	45:IF:328:GLU:HG2	1.74	0.70
45:IF:390:ARG:HH11	45:IF:391:ARG:HD3	1.56	0.70
45:IJ:107:THR:HG21	45:IJ:401:GLU:HB3	1.74	0.70
44:IM:14:ILE:CD1	44:IM:69:ASP:HB2	2.20	0.70
44:IM:108:TYR:HA	44:IM:112:LYS:HE3	1.73	0.70
44:JC:335:ILE:HA	44:JC:338:LYS:HZ3	1.57	0.70
44:JE:21:TRP:CZ3	44:JE:63:PRO:HB3	2.27	0.70
44:JG:270:SER:HB2	44:JG:378:ILE:HD13	1.72	0.70
44:JM:269:LEU:HD12	44:JM:301:MET:HE2	1.72	0.70
45:KB:34:GLY:O	45:KB:58:ARG:HA	1.92	0.70
45:KD:60:VAL:CG1	45:KD:86:ARG:HH11	2.03	0.70
44:KI:325:PRO:O	44:KI:328:VAL:HG12	1.91	0.70
44:KM:219:ILE:O	44:KM:222:PRO:HD3	1.92	0.70
44:LE:204:LEU:HD13	44:LE:231:ILE:HD12	1.73	0.70
45:LF:286:VAL:HB	45:LF:325:GLU:OE2	1.92	0.70
44:LG:340:THR:HG23	44:LG:341:ILE:HG12	1.74	0.70
45:LJ:130:LEU:HG	45:LJ:162:ARG:HD2	1.72	0.70
45:ML:31:ASP:HB3	45:ML:32:PRO:HD2	1.74	0.70
44:NA:175:PRO:HB3	44:NA:390:ARG:CD	2.22	0.70
44:NA:326:LYS:CD	45:ND:219:THR:HA	2.20	0.70
45:ND:330:MET:SD	45:ND:349:ILE:HG21	2.32	0.70
45:NH:11:GLN:HA	45:NH:14:ASN:HB2	1.71	0.70
45:NH:12:CYS:O	45:NH:16:ILE:HG12	1.91	0.70
44:NK:141:VAL:HG11	44:NK:172:TYR:HD1	1.55	0.70
44:OA:54:SER:OG	44:OA:62:VAL:HG21	1.91	0.70
45:OB:186:THR:HA	45:OB:415:MET:CE	2.22	0.70
45:OD:4:ILE:HD11	45:OD:50:TYR:OH	1.92	0.70
45:OD:173:PRO:HD3	45:OD:380:ARG:HD2	1.73	0.70
45:OH:5:VAL:HG21	45:OH:133:PHE:CD2	2.26	0.70
45:ON:164:MET:SD	45:ON:166:THR:OG1	2.48	0.70
44:PA:352:LYS:NZ	45:PD:178:THR:HA	2.05	0.70
45:PB:61:PRO:HD2	45:PB:84:LEU:O	1.92	0.70
44:PC:261:PRO:HG2	44:PC:313:MET:CE	2.22	0.70
44:PE:229:ARG:HD3	44:PE:363:VAL:HG11	1.73	0.70
45:QB:188:SER:HA	45:QB:191:GLN:HE22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:311:LEU:HB2	45:QB:370:ASN:HD21	1.56	0.70
44:QC:171:ILE:HG21	46:QC:501:GTP:HN22	1.57	0.70
45:QD:210:ILE:HD11	45:QD:299:MET:O	1.91	0.70
45:QF:318:ARG:HH11	45:QF:358:PRO:CG	2.02	0.70
44:QG:173:PRO:HG2	44:QG:391:LEU:HD21	1.73	0.70
45:QH:105:HIS:CD2	45:QH:150:LEU:HB2	2.27	0.70
45:QJ:294:PHE:CD2	45:QJ:333:VAL:HG11	2.26	0.70
44:QK:210:TYR:HE1	44:QK:227:LEU:HD11	1.55	0.70
44:QK:254:GLU:OE2	45:QL:98:GLY:HA3	1.91	0.70
44:QM:2:ARG:O	44:QM:51:THR:HA	1.92	0.70
44:RA:141:VAL:HG11	44:RA:172:TYR:HD1	1.55	0.70
44:RE:60:LYS:HD2	44:RE:85:GLN:NE2	2.07	0.70
44:RE:324:VAL:HG12	44:RE:326:LYS:H	1.55	0.70
44:RG:435:VAL:HA	45:RH:391:ARG:NH2	2.06	0.70
45:RH:257:LEU:HB3	45:RH:266:PHE:CE2	2.27	0.70
44:RI:174:SER:OG	44:RI:206:ASN:OD1	2.02	0.70
44:RI:294:SER:O	44:RI:297:GLU:HG2	1.92	0.70
45:RJ:60:VAL:HG21	45:RJ:86:ARG:CG	2.18	0.70
44:RK:13:GLY:HA2	44:RK:16:VAL:HG12	1.71	0.70
45:RN:406:MET:O	45:RN:410:GLU:HG3	1.91	0.70
45:SB:257:LEU:HD11	45:SB:314:SER:HB2	1.74	0.70
44:SC:257:THR:HG22	45:SD:397:TRP:CD2	2.27	0.70
45:SH:11:GLN:N	48:SH:501:GDP:O1B	2.25	0.70
45:SH:255:VAL:HG21	44:SI:100:ALA:O	1.92	0.70
44:TA:429:GLU:HA	44:TA:432:TYR:CD2	2.25	0.70
45:TF:167:PHE:CE2	45:TF:233:MET:HG2	2.23	0.70
45:TF:252:LYS:HA	44:TG:100:ALA:HB1	1.73	0.70
44:UA:135:PHE:HB2	44:UA:166:LYS:HG2	1.73	0.70
44:UC:88:HIS:CE1	44:UC:90:GLU:HG2	2.25	0.70
44:UG:324:VAL:HG12	44:UG:326:LYS:HG3	1.74	0.70
44:UI:145:THR:HG22	46:UI:501:GTP:PG	2.31	0.70
44:UI:172:TYR:HB2	44:UI:203:MET:CE	2.22	0.70
44:UI:172:TYR:HB2	44:UI:203:MET:HE3	1.73	0.70
44:UK:121:ARG:O	44:UK:125:LEU:HG	1.91	0.70
45:VL:193:VAL:HA	45:VL:264:HIS:CE1	2.27	0.70
45:VL:211:CYS:O	45:VL:216:LYS:N	2.25	0.70
44:WC:384:ILE:O	44:WC:387:VAL:HG12	1.92	0.70
45:WD:285:THR:HB	45:WD:287:PRO:HD2	1.72	0.70
44:WE:30:ILE:O	44:WE:30:ILE:HG13	1.90	0.70
45:WF:253:LEU:HD21	45:WF:316:LEU:HD11	1.72	0.70
45:WH:86:ARG:HB3	45:WH:89:ASN:OD1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:156:ARG:NH1	45:WJ:162:ARG:O	2.24	0.70
45:WL:183:TYR:CZ	45:WL:388:MET:HE3	2.27	0.70
44:WM:171:ILE:HG12	44:WM:204:LEU:CB	2.22	0.70
45:WN:40:SER:OG	45:WN:43:GLN:HG3	1.92	0.70
8:1G:116:GLN:NE2	44:JA:219:ILE:HG21	2.06	0.70
24:1O:156:ARG:HD2	44:UE:370:LYS:HE2	1.73	0.70
26:1R:464:LEU:HD23	45:ED:78:ALA:O	1.90	0.70
22:2L:524:ARG:NH1	45:BN:359:LYS:HA	2.06	0.70
26:2R:224:PHE:CG	45:BJ:80:PRO:HG3	2.27	0.70
12:2S:43:TYR:HB2	44:WG:88:HIS:NE2	2.06	0.70
27:2W:232:SER:CB	35:6R:3:TYR:CE1	2.74	0.70
2:3A:69:ASN:HB2	44:AM:221:ARG:NH1	2.05	0.70
31:3H:203:LYS:CE	44:AG:225:THR:HB	2.22	0.70
38:5H:56:VAL:HG11	45:ON:215:LEU:CD2	2.22	0.70
35:5R:267:LEU:HD12	35:5R:268:GLU:N	2.06	0.70
41:6G:272:LYS:CE	44:UC:119:LEU:HB3	2.21	0.70
35:7R:106:ASN:OD1	45:BD:276:ARG:NH1	2.25	0.70
35:7R:203:ARG:HD2	35:7R:204:VAL:O	1.91	0.70
35:7R:255:VAL:CG2	44:CA:41:THR:HG23	2.22	0.70
45:AB:1:MET:O	45:AB:2:ARG:HG2	1.90	0.70
44:AC:87:PHE:HB3	44:AC:91:GLN:HE21	1.57	0.70
44:AG:210:TYR:CE1	44:AG:227:LEU:HD11	2.26	0.70
44:AK:76:ASP:OD2	45:AL:46:ARG:NH2	2.25	0.70
44:AM:334:THR:O	44:AM:337:THR:OG1	2.10	0.70
45:AN:2:ARG:NH2	45:AN:240:LEU:O	2.25	0.70
45:AN:86:ARG:NH2	45:BN:278:SER:HA	2.07	0.70
45:AN:203:ASP:OD2	45:AN:302:ALA:N	2.22	0.70
44:BA:258:ASN:ND2	45:BD:178:THR:HG23	2.06	0.70
44:BC:326:LYS:HB3	45:BF:220:PRO:HG2	1.72	0.70
45:BL:118:ASP:O	45:BL:121:ARG:HG2	1.91	0.70
44:BM:90:GLU:HB3	44:CM:280:LYS:CE	2.22	0.70
44:BM:420:GLU:O	44:BM:423:GLU:HG2	1.91	0.70
45:BN:203:ASP:O	45:BN:207:LEU:HG	1.92	0.70
45:CB:67:ASP:HB3	45:CB:92:PHE:CB	2.22	0.70
45:CD:139:LEU:HG	45:CD:188:SER:OG	1.92	0.70
44:CM:34:GLY:O	44:CM:60:LYS:HA	1.92	0.70
45:CN:3:GLU:HA	45:CN:49:VAL:HG22	1.73	0.70
45:CN:94:GLN:HE21	45:CN:95:THR:HG23	1.54	0.70
44:DA:188:ILE:O	44:DA:192:HIS:N	2.15	0.70
44:DC:101:ASN:HA	44:DC:144:GLY:H	1.57	0.70
44:DC:248:LEU:HB2	44:DC:355:ILE:HD12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:86:ARG:HD3	45:EF:281:TYR:CB	2.21	0.70
44:DG:205:ASP:OD1	44:DG:303:ALA:HA	1.92	0.70
45:DH:267:MET:HE3	45:DH:371:SER:HB3	1.74	0.70
44:DK:89:PRO:HG3	44:EK:280:LYS:HB3	1.74	0.70
45:DL:1:MET:O	45:DL:2:ARG:HG2	1.91	0.70
45:DL:135:ILE:N	45:DL:165:GLU:O	2.23	0.70
45:DL:257:LEU:HD11	45:DL:314:SER:HB2	1.72	0.70
44:DM:9:VAL:O	44:DM:139:ASN:HA	1.92	0.70
44:DM:183:GLU:HG2	44:DM:184:PRO:CD	2.22	0.70
44:EA:13:GLY:HA3	44:EA:139:ASN:HA	1.74	0.70
45:EH:97:ALA:HA	45:EH:103:LYS:HD2	1.72	0.70
45:EH:203:ASP:OD2	45:EH:302:ALA:N	2.24	0.70
45:EH:267:MET:CE	45:EH:299:MET:HB3	2.22	0.70
44:EI:70:LEU:HD11	44:EI:149:LEU:HD23	1.74	0.70
44:EM:220:GLU:O	44:EM:221:ARG:NE	2.24	0.70
45:FD:221:THR:O	45:FD:224:ASP:N	2.20	0.70
44:FI:237:SER:HA	44:FI:320:ARG:NH2	2.07	0.70
44:FK:212:ILE:CD1	44:FK:300:ASN:HA	2.22	0.70
44:GC:222:PRO:HG2	45:GD:324:LYS:HD3	1.74	0.70
45:GD:35:THR:HA	45:GD:57:GLY:O	1.92	0.70
45:GD:387:ALA:O	45:GD:390:ARG:HG2	1.91	0.70
44:GE:254:GLU:HG2	45:GH:98:GLY:CA	2.17	0.70
45:GF:242:PHE:HD1	45:GF:356:ILE:HB	1.57	0.70
44:GG:210:TYR:CE1	45:GH:324:LYS:HB2	2.27	0.70
44:GG:237:SER:HA	44:GG:320:ARG:NH2	2.06	0.70
45:GH:248:SER:CB	45:GH:252:LYS:HD2	2.21	0.70
44:GM:134:GLY:HA3	44:GM:165:SER:O	1.92	0.70
44:HA:434:GLU:O	44:HA:437:ILE:HG12	1.92	0.70
45:HB:286:VAL:HB	45:HB:287:PRO:CD	2.21	0.70
45:HD:25:SER:O	45:HD:29:GLY:N	2.24	0.70
44:HG:189:LEU:HD11	44:HG:418:PHE:HE2	1.57	0.70
44:HG:288:VAL:HG11	44:HG:327:ASP:HB3	1.73	0.70
45:HH:60:VAL:HG11	45:HH:86:ARG:HE	1.55	0.70
45:HH:60:VAL:HG23	45:HH:84:LEU:O	1.92	0.70
45:HJ:163:ILE:HD13	45:HJ:251:ARG:CG	2.22	0.70
45:HL:3:GLU:HG3	45:HL:62:ARG:NH1	2.07	0.70
45:HL:69:GLU:OE1	45:HL:71:GLY:N	2.23	0.70
45:HL:139:LEU:HD13	45:HL:168:SER:HB3	1.74	0.70
44:HM:287:SER:HB3	44:HM:290:GLU:HG2	1.74	0.70
44:IA:406:HIS:NE2	45:IB:261:PRO:HD3	2.07	0.70
44:IG:398:MET:CE	45:IH:345:ILE:HA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:20:PHE:HB2	45:IJ:233:MET:HE1	1.73	0.70
45:JD:2:ARG:HH22	45:JD:240:LEU:HA	1.56	0.70
45:JF:254:ALA:HA	45:JF:258:ILE:HD13	1.74	0.70
44:JG:212:ILE:HG13	44:JG:302:MET:CE	2.22	0.70
45:JJ:22:GLU:HG2	45:JJ:81:PHE:CD2	2.27	0.70
44:JK:216:ASN:ND2	44:JK:275:ILE:O	2.25	0.70
45:KH:3:GLU:HG2	45:KH:127:CYS:HB2	1.73	0.70
44:KI:88:HIS:ND1	44:KI:89:PRO:HD2	2.07	0.70
44:KM:406:HIS:CG	45:KN:261:PRO:HG3	2.26	0.70
45:KN:173:PRO:HG3	45:KN:381:VAL:HA	1.72	0.70
45:KN:272:PRO:HA	45:KN:292:GLN:OE1	1.92	0.70
45:LB:31:ASP:OD1	45:LB:35:THR:N	2.24	0.70
45:LB:181:GLU:HG2	45:LB:182:PRO:HD3	1.74	0.70
44:LE:113:GLU:O	44:LE:114:ILE:HD13	1.92	0.70
44:LE:248:LEU:H	44:LE:355:ILE:HB	1.55	0.70
45:LF:52:ASN:OD1	45:LF:53:GLU:N	2.25	0.70
44:LG:358:GLN:OE1	44:LG:359:PRO:HD2	1.90	0.70
45:LJ:362:LYS:HG2	45:LJ:363:MET:HG3	1.74	0.70
44:LM:169:PHE:CD2	44:LM:202:VAL:HG21	2.26	0.70
44:LM:320:ARG:HA	44:LM:356:ASN:HB3	1.74	0.70
45:LN:285:THR:HB	45:LN:287:PRO:HD2	1.72	0.70
44:MC:189:LEU:HD11	44:MC:418:PHE:CE1	2.27	0.70
44:ME:68:LEU:HD13	44:ME:93:ILE:HB	1.72	0.70
44:ME:257:THR:HG23	44:ME:258:ASN:OD1	1.92	0.70
45:MH:213:ARG:HB3	45:MH:297:LYS:CE	2.22	0.70
44:MK:209:ILE:HD11	44:MK:302:MET:CE	2.22	0.70
44:MK:298:PRO:HG3	44:MK:308:ARG:NH1	2.07	0.70
44:MM:208:ALA:HA	44:MM:304:LYS:CE	2.15	0.70
44:NA:270:SER:OG	44:NA:302:MET:SD	2.50	0.70
44:NA:348:PRO:HB2	45:ND:384:GLN:OE1	1.92	0.70
45:ND:113:ILE:O	45:ND:117:LEU:HG	1.92	0.70
45:ND:143:THR:O	45:ND:147:MET:HE1	1.92	0.70
45:ND:215:LEU:CA	45:ND:275:SER:HA	2.22	0.70
44:NI:287:SER:O	44:NI:291:ILE:HG23	1.92	0.70
44:NM:53:PHE:HA	44:NM:63:PRO:HA	1.72	0.70
45:NN:136:THR:HG22	45:NN:167:PHE:HD2	1.56	0.70
45:OB:395:LEU:O	45:OB:399:THR:HG23	1.92	0.70
44:OC:174:SER:HB2	44:OC:177:VAL:O	1.91	0.70
44:OG:228:ASN:O	44:OG:231:ILE:HG22	1.92	0.70
44:OM:75:ILE:HD11	44:OM:92:LEU:CB	2.22	0.70
45:ON:178:THR:HG22	45:ON:180:VAL:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PB:321:MET:CE	45:PB:363:MET:HG3	2.22	0.70
44:PC:102:ASN:ND2	44:PC:105:ARG:HG3	2.07	0.70
44:PG:73:THR:HB	45:PH:247:ASN:ND2	2.02	0.70
45:PH:235:GLY:O	45:PH:238:CYS:N	2.22	0.70
44:PK:376:CYS:SG	44:PK:377:MET:N	2.64	0.70
45:QB:177:ASP:OD2	48:QB:501:GDP:H3'	1.91	0.70
45:QD:309:ARG:NH1	45:QD:342:VAL:HA	2.07	0.70
45:QD:316:LEU:O	45:QD:366:THR:HG22	1.91	0.70
44:QE:350:GLY:HA2	45:QF:179:VAL:HG12	1.72	0.70
45:QH:11:GLN:HA	45:QH:14:ASN:HD22	1.57	0.70
45:QH:362:LYS:HD2	45:QH:363:MET:HG3	1.73	0.70
45:QJ:24:ILE:O	45:QJ:27:GLU:HG2	1.92	0.70
45:QJ:178:THR:CG2	45:QJ:180:VAL:HG12	2.22	0.70
44:QK:176:GLN:N	44:QK:176:GLN:OE1	2.24	0.70
44:QK:263:PRO:HD3	45:QL:396:HIS:ND1	2.06	0.70
44:QK:423:GLU:O	44:QK:427:ALA:N	2.21	0.70
45:QL:350:LYS:HA	44:QM:179:THR:O	1.92	0.70
44:QM:115:VAL:HG22	44:QM:119:LEU:CD2	2.21	0.70
45:QN:271:ALA:HB3	45:QN:293:MET:HE1	1.74	0.70
44:RA:51:THR:OG1	44:RA:243:ARG:HB3	1.92	0.70
44:RA:248:LEU:CD2	44:RA:354:GLY:HA2	2.20	0.70
45:RB:101:TRP:CE3	45:RB:187:LEU:HD13	2.26	0.70
45:RB:116:VAL:O	45:RB:120:VAL:HG23	1.90	0.70
45:RB:233:MET:O	45:RB:236:VAL:HG12	1.91	0.70
45:RB:288:GLU:O	45:RB:291:GLN:NE2	2.25	0.70
44:RE:66:VAL:HG21	44:RE:122:ILE:HD11	1.73	0.70
44:RE:141:VAL:HG11	44:RE:172:TYR:CD1	2.25	0.70
44:RK:64:ARG:CG	44:RK:125:LEU:HD22	2.21	0.70
45:RN:178:THR:HG22	45:RN:180:VAL:H	1.57	0.70
44:SG:240:ALA:HB1	44:SG:356:ASN:HD22	1.57	0.70
45:SH:294:PHE:CE2	45:SH:333:VAL:HG11	2.26	0.70
45:SJ:299:MET:HG3	45:SJ:305:PRO:HG3	1.74	0.70
44:SM:123:ARG:O	44:SM:127:ASP:N	2.23	0.70
44:TA:304:LYS:HE2	44:TA:387:VAL:CG1	2.21	0.70
44:TC:88:HIS:O	44:TC:91:GLN:HG2	1.92	0.70
44:TC:171:ILE:HG12	44:TC:204:LEU:CB	2.21	0.70
45:TH:4:ILE:HD12	45:TH:134:GLN:HG2	1.74	0.70
45:TL:21:TRP:NE1	45:TL:63:ALA:HB2	2.06	0.70
45:TL:86:ARG:CZ	45:TL:86:ARG:HA	2.22	0.70
44:UA:265:ILE:HD11	44:UA:435:VAL:HG21	1.74	0.70
45:UB:207:LEU:HB3	45:UB:225:LEU:HD22	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:167:PHE:CD2	45:UD:200:MET:HE2	2.27	0.70
45:UF:345:ILE:HA	44:UG:398:MET:CE	2.22	0.70
44:UG:238:LEU:HD12	44:UG:378:ILE:HG13	1.74	0.70
44:UG:272:TYR:HD1	44:UG:376:CYS:HB2	1.56	0.70
44:UK:215:ARG:NH2	44:UK:299:ALA:O	2.25	0.70
45:UL:332:ASN:OD1	45:UL:336:LYS:HG2	1.91	0.70
45:UL:392:LYS:HB3	45:UL:395:LEU:HD22	1.72	0.70
45:UN:242:PHE:CG	45:UN:356:ILE:HG13	2.26	0.70
44:VA:316:SER:O	44:VA:378:ILE:N	2.25	0.70
44:VG:288:VAL:HA	44:VG:291:ILE:CG1	2.22	0.70
44:VM:192:HIS:CD2	44:VM:421:ALA:HA	2.27	0.70
44:WA:276:ILE:HD11	44:WA:280:LYS:HB3	1.72	0.70
45:WB:420:SER:O	45:WB:424:GLN:N	2.25	0.70
44:WC:221:ARG:NE	45:WD:322:SER:HB3	2.07	0.70
45:WD:291:GLN:NE2	45:WD:292:GLN:HB2	2.07	0.70
44:WG:13:GLY:HA2	44:WG:16:VAL:HG22	1.74	0.70
44:WG:320:ARG:CD	44:WG:360:PRO:HG3	2.21	0.70
45:WL:268:ILE:HG13	45:WL:300:MET:CG	2.21	0.70
1:6H:251:ASP:N	45:FF:360:GLY:HA2	2.07	0.69
16:0X:75:LEU:CD1	45:MB:280:GLN:HE22	2.06	0.69
25:1P:287:ARG:NH1	44:TE:366:GLY:O	2.24	0.69
26:3R:283:ARG:HH22	44:CK:45:GLY:HA2	1.55	0.69
35:4R:81:ILE:HB	44:ME:35:GLN:OE1	1.90	0.69
37:5D:27:LYS:HE2	45:KN:392:LYS:CD	2.21	0.69
37:5D:52:VAL:HG12	44:KK:438:GLU:O	1.90	0.69
38:5G:141:CYS:HA	38:5G:144:LEU:HD21	1.74	0.69
39:5I:116:ASN:ND2	39:5I:116:ASN:O	2.25	0.69
39:5I:143:LYS:NZ	44:NC:390:ARG:HB3	2.07	0.69
11:5Q:80:ILE:CD1	11:5Q:162:ILE:HG22	2.22	0.69
35:5R:301:PRO:CG	45:CJ:74:ASP:HB3	2.21	0.69
35:5R:318:TYR:CG	35:5R:319:PRO:HD2	2.27	0.69
41:6G:268:VAL:HG22	44:VA:338:LYS:HB3	1.72	0.69
35:6R:31:PHE:CE1	45:LN:90:PHE:CD1	2.80	0.69
35:7R:416:MET:HE1	35:7R:449:GLY:O	1.92	0.69
43:8R:143:UNK:HB1	45:PJ:362:LYS:CE	2.21	0.69
44:AA:292:THR:HG21	44:AA:331:SER:HB2	1.73	0.69
44:AA:398:MET:CE	45:AB:346:PRO:HD2	2.22	0.69
45:AB:343:GLU:OE1	45:AB:430:ALA:HB2	1.92	0.69
44:AC:254:GLU:HG2	45:AF:98:GLY:HA2	1.74	0.69
45:AD:28:HIS:CE1	45:AD:241:ARG:HD3	2.26	0.69
45:AF:97:ALA:CB	45:AF:143:THR:HB	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:87:PHE:HB3	44:AG:92:LEU:HD11	1.72	0.69
44:AI:53:PHE:O	44:AI:64:ARG:NE	2.20	0.69
44:BA:145:THR:HG23	46:BA:501:GTP:O2G	1.92	0.69
44:BA:188:ILE:HD12	44:BA:425:LEU:CD1	2.22	0.69
45:BH:200:MET:CE	45:BH:268:ILE:HD13	2.20	0.69
44:BI:311:LYS:N	44:BI:382:THR:OG1	2.24	0.69
45:BJ:241:ARG:HG3	45:BJ:242:PHE:CD1	2.27	0.69
44:BK:88:HIS:O	44:BK:90:GLU:N	2.24	0.69
45:BN:7:ILE:HB	45:BN:135:ILE:CD1	2.22	0.69
44:CA:272:TYR:CD1	44:CA:376:CYS:HB2	2.26	0.69
44:CA:328:VAL:HG11	44:CA:353:VAL:HG21	1.74	0.69
45:CB:236:VAL:HG13	45:CB:253:LEU:HD22	1.73	0.69
45:CB:299:MET:CG	45:CB:305:PRO:HG3	2.22	0.69
44:CC:262:TYR:HB3	44:CC:263:PRO:HD2	1.74	0.69
45:CD:1:MET:HE1	44:CE:96:LYS:HA	1.72	0.69
45:CD:244:GLY:HA2	45:CD:355:ASP:OD2	1.92	0.69
45:CD:342:VAL:HG13	45:CD:345:ILE:HG22	1.73	0.69
45:CF:105:HIS:NE2	45:CF:150:LEU:HG	2.07	0.69
45:CF:139:LEU:HD21	45:CF:185:ALA:HA	1.71	0.69
44:CK:208:ALA:O	44:CK:212:ILE:HG12	1.91	0.69
44:CK:315:CYS:SG	44:CK:379:SER:HB3	2.31	0.69
45:CN:51:TYR:CB	45:CN:59:TYR:HB3	2.14	0.69
44:DA:383:ALA:O	44:DA:386:GLU:HG2	1.92	0.69
45:DB:261:PRO:HD3	44:DC:406:HIS:CD2	2.27	0.69
45:DD:221:THR:HG23	45:DD:224:ASP:H	1.57	0.69
45:DD:246:LEU:HB2	45:DD:353:ILE:HD13	1.74	0.69
45:DF:174:LYS:HD3	45:DF:175:VAL:HG13	1.74	0.69
44:DG:288:VAL:O	44:DG:291:ILE:HG12	1.91	0.69
45:DH:334:GLN:HE22	45:DH:347:ASN:H	1.37	0.69
45:DJ:7:ILE:HB	45:DJ:135:ILE:CD1	2.21	0.69
45:DL:109:GLY:O	45:DL:113:ILE:N	2.20	0.69
44:DM:291:ILE:O	44:DM:375:VAL:HG11	1.90	0.69
45:DN:244:GLY:HA2	45:DN:355:ASP:OD2	1.92	0.69
44:EE:91:GLN:HG3	44:EE:92:LEU:HD12	1.73	0.69
44:EE:115:VAL:HG22	44:EE:119:LEU:HD23	1.74	0.69
44:EG:333:ALA:HA	44:EG:336:LYS:NZ	2.07	0.69
45:EH:288:GLU:O	45:EH:291:GLN:HG3	1.92	0.69
45:EJ:217:LEU:HD11	45:EJ:220:PRO:HG3	1.73	0.69
45:EJ:350:LYS:HG3	44:EK:179:THR:O	1.92	0.69
44:EK:200:VAL:CG2	44:EK:256:GLN:HB3	2.22	0.69
45:EL:308:GLY:HA3	45:EL:372:THR:OG1	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:21:TRP:CZ2	45:EN:61:PRO:HB3	2.27	0.69
45:EN:240:LEU:O	45:EN:240:LEU:HD23	1.91	0.69
45:FB:3:GLU:CB	45:FB:49:VAL:HA	2.22	0.69
45:FB:237:THR:OG1	45:FB:240:LEU:HB3	1.91	0.69
44:FG:135:PHE:O	44:FG:136:LEU:HD23	1.91	0.69
45:FH:200:MET:HE1	45:FH:266:PHE:H	1.56	0.69
44:FK:314:ALA:N	44:FK:380:ASN:HB3	2.07	0.69
44:FK:324:VAL:HG12	44:FK:326:LYS:HE2	1.74	0.69
45:FN:329:GLN:O	45:FN:333:VAL:N	2.25	0.69
44:GA:205:ASP:OD1	44:GA:303:ALA:HA	1.92	0.69
44:GA:431:ASP:O	44:GA:434:GLU:HG3	1.91	0.69
45:GB:135:ILE:HG13	45:GB:152:ILE:HD11	1.74	0.69
45:GJ:234:SER:O	45:GJ:318:ARG:NH2	2.25	0.69
44:HA:195:LEU:HA	44:HA:266:HIS:CE1	2.27	0.69
45:HB:253:LEU:O	45:HB:257:LEU:HD13	1.92	0.69
45:HB:317:PHE:CE2	45:HB:326:VAL:HG22	2.27	0.69
45:HD:247:ASN:O	45:HD:252:LYS:NZ	2.22	0.69
44:HG:259:LEU:O	44:HG:380:ASN:ND2	2.24	0.69
45:HH:294:PHE:CD2	45:HH:333:VAL:HG21	2.27	0.69
44:HI:262:TYR:CE1	45:HL:393:ALA:HA	2.26	0.69
44:HM:105:ARG:HA	44:HM:109:THR:HB	1.73	0.69
44:IA:205:ASP:OD1	44:IA:303:ALA:HA	1.92	0.69
45:IB:326:VAL:O	45:IB:330:MET:HG2	1.91	0.69
45:ID:268:ILE:HG22	45:ID:368:VAL:HG22	1.74	0.69
45:IJ:314:SER:HB3	45:IJ:368:VAL:HG13	1.72	0.69
44:IM:3:GLU:O	44:IM:132:LEU:HA	1.92	0.69
44:JC:261:PRO:HA	45:JF:394:PHE:CD2	2.27	0.69
45:JD:217:LEU:HD11	45:JD:220:PRO:HB3	1.74	0.69
44:JE:63:PRO:HG2	44:JE:86:LEU:HD21	1.74	0.69
45:JH:67:ASP:OD1	45:JH:143:THR:HG21	1.92	0.69
45:JH:238:CYS:CB	45:JH:318:ARG:HD3	2.22	0.69
45:JJ:32:PRO:HG3	45:JJ:81:PHE:CE1	2.27	0.69
45:JN:69:GLU:OE2	45:JN:72:THR:N	2.25	0.69
44:KC:325:PRO:O	44:KC:328:VAL:HG12	1.92	0.69
45:KD:304:ASP:OD2	45:KD:306:ARG:NH1	2.25	0.69
45:KF:181:GLU:HG3	45:KF:182:PRO:HD3	1.74	0.69
44:KI:288:VAL:HG11	44:KI:327:ASP:CB	2.22	0.69
44:KM:21:TRP:O	44:KM:25:CYS:N	2.25	0.69
44:KM:96:LYS:HD2	44:KM:97:GLU:N	2.07	0.69
45:LB:25:SER:CB	45:LB:30:ILE:HB	2.22	0.69
44:LC:98:ASP:O	44:LC:105:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:84:ARG:HG3	44:LE:85:GLN:HG2	1.73	0.69
44:LM:276:ILE:HG23	44:LM:280:LYS:HG3	1.72	0.69
45:LN:318:ARG:HG2	45:LN:358:PRO:HD3	1.74	0.69
44:MA:2:ARG:HD3	44:MA:242:LEU:CD1	2.21	0.69
44:ME:268:MET:HG3	44:ME:378:ILE:HG22	1.72	0.69
45:MF:130:LEU:HD21	45:MF:133:PHE:HE1	1.56	0.69
44:MG:55:GLU:HG3	44:MG:57:GLY:H	1.56	0.69
45:MJ:42:LEU:CD1	45:MJ:356:ILE:HD11	2.22	0.69
44:NA:222:PRO:O	45:NB:322:SER:HB2	1.92	0.69
44:NC:73:THR:OG1	45:ND:2:ARG:NH2	2.24	0.69
44:NG:127:ASP:OD1	44:NG:128:ASN:N	2.25	0.69
44:NK:210:TYR:CE1	44:NK:227:LEU:HD11	2.26	0.69
45:NL:237:THR:HG22	45:NL:250:LEU:HD11	1.74	0.69
45:OB:144:GLY:N	48:OB:501:GDP:O2B	2.16	0.69
44:OG:73:THR:HA	45:OH:46:ARG:HH21	1.56	0.69
44:OI:261:PRO:HA	45:OL:394:PHE:CE2	2.27	0.69
44:OK:96:LYS:HD3	45:OL:129:CYS:CB	2.22	0.69
45:PB:8:GLN:HE21	45:PB:14:ASN:HA	1.57	0.69
45:PD:5:VAL:C	45:PD:130:LEU:HD21	2.12	0.69
44:PE:161:TYR:HB3	44:PE:164:LYS:CE	2.22	0.69
45:PH:251:ARG:O	45:PH:255:VAL:HG23	1.92	0.69
45:PJ:134:GLN:CB	45:PJ:165:GLU:HB2	2.22	0.69
45:PJ:310:TYR:CD1	45:PJ:371:SER:HB2	2.27	0.69
45:PL:222:TYR:O	45:PL:226:ASN:ND2	2.25	0.69
44:PM:185:TYR:HA	44:PM:395:PHE:HD1	1.56	0.69
44:QC:170:THR:O	44:QC:171:ILE:HD13	1.92	0.69
44:QI:36:MET:SD	44:QI:38:SER:N	2.65	0.69
44:QI:54:SER:HB2	44:QI:64:ARG:NH2	2.07	0.69
45:QJ:286:VAL:HG11	45:QJ:325:GLU:HG2	1.73	0.69
45:QL:33:THR:O	45:QL:58:ARG:NH2	2.25	0.69
45:QL:404:ASP:OD1	45:QL:407:GLU:N	2.16	0.69
44:QM:319:TYR:N	44:QM:354:GLY:O	2.20	0.69
45:RF:25:SER:O	45:RF:30:ILE:N	2.24	0.69
44:RK:254:GLU:HA	44:RK:257:THR:HG23	1.74	0.69
45:RL:28:HIS:HB2	45:RL:30:ILE:CD1	2.22	0.69
44:SA:273:ALA:HB3	44:SA:375:VAL:HG23	1.74	0.69
45:SB:186:THR:HA	45:SB:415:MET:HE1	1.74	0.69
44:SE:149:LEU:O	44:SE:153:LEU:N	2.22	0.69
45:SF:86:ARG:HG3	45:SF:89:ASN:H	1.56	0.69
45:SH:418:LEU:O	45:SH:422:TYR:N	2.24	0.69
45:SL:105:HIS:CG	45:SL:150:LEU:HD12	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:75:ILE:HG21	44:SM:79:ARG:CZ	2.22	0.69
44:TA:193:SER:O	44:TA:197:HIS:HB2	1.92	0.69
44:TA:315:CYS:N	44:TA:350:GLY:O	2.24	0.69
45:TB:139:LEU:CD1	45:TB:168:SER:HB3	2.22	0.69
44:TC:210:TYR:HE1	44:TC:227:LEU:HD13	1.57	0.69
44:TC:255:PHE:O	44:TC:259:LEU:HG	1.92	0.69
45:TD:168:SER:N	45:TD:200:MET:O	2.24	0.69
44:TE:254:GLU:HG2	45:TF:98:GLY:CA	2.20	0.69
45:TF:16:ILE:HD13	45:TF:19:LYS:NZ	2.07	0.69
45:TF:44:LEU:CD2	45:TF:47:ILE:HD12	2.22	0.69
44:TI:88:HIS:HA	44:UI:283:HIS:CD2	2.27	0.69
44:TI:298:PRO:HA	44:TI:301:MET:HE1	1.74	0.69
44:UA:296:PHE:HD2	44:UA:335:ILE:HD12	1.57	0.69
45:UB:133:PHE:O	45:UB:164:MET:HA	1.92	0.69
44:UC:294:SER:O	44:UC:300:ASN:ND2	2.21	0.69
45:UD:12:CYS:SG	45:UD:138:SER:HB2	2.31	0.69
45:UD:257:LEU:HD21	45:UD:368:VAL:CG2	2.22	0.69
44:UE:20:CYS:HA	44:UE:232:ALA:HB1	1.72	0.69
44:UE:121:ARG:HE	44:UE:124:LYS:HE2	1.56	0.69
44:UG:12:GLY:O	44:UG:16:VAL:HG22	1.92	0.69
44:UK:288:VAL:CG1	44:UK:327:ASP:HB3	2.21	0.69
44:VA:434:GLU:O	44:VA:437:ILE:HG12	1.92	0.69
45:VB:52:ASN:N	45:VB:60:VAL:O	2.18	0.69
45:VD:99:ASN:CB	45:VD:180:VAL:HG11	2.22	0.69
45:VD:286:VAL:HB	45:VD:287:PRO:CD	2.22	0.69
45:VF:113:ILE:HD13	45:VF:150:LEU:HD22	1.74	0.69
45:VH:11:GLN:HB3	48:VH:501:GDP:O1A	1.90	0.69
45:VL:233:MET:O	45:VL:236:VAL:HG22	1.91	0.69
45:WB:45:GLU:OE1	45:WB:46:ARG:HG2	1.91	0.69
44:WE:6:SER:O	44:WE:7:ILE:HD13	1.92	0.69
45:WJ:288:GLU:O	45:WJ:291:GLN:HG3	1.90	0.69
44:WK:259:LEU:HD11	44:WK:316:SER:HB3	1.74	0.69
44:WK:268:MET:HB2	44:WK:379:SER:O	1.91	0.69
45:WN:318:ARG:N	45:WN:364:ALA:O	2.21	0.69
27:1W:59:SER:HB2	45:LH:361:LEU:HD13	1.73	0.69
16:1X:100:LYS:HA	44:MC:282:TYR:CE2	2.25	0.69
10:2N:8:ARG:HH12	45:IB:52:ASN:CB	2.02	0.69
37:5D:109:ASN:CA	44:NM:281:ALA:H	2.05	0.69
35:5R:26:HIS:HB3	44:LG:46:ASP:OD2	1.92	0.69
35:5R:31:PHE:HE2	45:LJ:73:MET:HB3	1.55	0.69
35:5R:407:LYS:O	45:EJ:218:THR:HG21	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:413:ILE:HD12	44:DI:57:GLY:O	1.91	0.69
35:5R:549:MET:HG2	35:5R:606:PHE:CE1	2.27	0.69
35:6R:407:LYS:C	45:EN:218:THR:HG21	2.13	0.69
35:6R:476:HIS:NE2	35:6R:498:LEU:CB	2.50	0.69
35:7R:54:ILE:HD11	35:7R:59:MET:CE	2.22	0.69
43:8R:131:UNK:O	43:8R:135:UNK:N	2.25	0.69
44:AG:10:GLY:O	44:AG:14:ILE:HD12	1.91	0.69
44:AG:217:LEU:HD21	44:AG:275:ILE:HG22	1.74	0.69
45:AH:343:GLU:OE2	45:AH:430:ALA:N	2.23	0.69
44:AI:63:PRO:HD3	44:AI:86:LEU:HG	1.75	0.69
45:BB:5:VAL:HG12	45:BB:62:ARG:HD3	1.74	0.69
45:BJ:178:THR:HG22	45:BJ:180:VAL:H	1.57	0.69
45:BL:341:PHE:HB3	45:BL:348:ASN:HD21	1.57	0.69
45:BN:146:GLY:HA2	45:BN:149:THR:HG22	1.73	0.69
45:CB:274:THR:OG1	45:CB:282:ARG:NH1	2.23	0.69
44:CC:3:GLU:HG2	44:CC:64:ARG:HE	1.57	0.69
44:DA:75:ILE:HD11	44:DA:92:LEU:CB	2.22	0.69
44:DA:212:ILE:HG22	44:DA:275:ILE:HD12	1.72	0.69
45:DD:4:ILE:HG22	45:DD:132:GLY:H	1.57	0.69
44:DE:313:MET:HB2	44:DE:346:TRP:CH2	2.27	0.69
45:DH:350:LYS:HA	44:DI:179:THR:O	1.91	0.69
44:DK:146:GLY:O	44:DK:150:GLY:N	2.22	0.69
44:DK:271:SER:OG	44:DK:301:MET:SD	2.50	0.69
45:DL:210:ILE:O	45:DL:214:THR:OG1	2.06	0.69
44:DM:307:PRO:HD2	44:DM:308:ARG:NH1	2.06	0.69
45:DN:69:GLU:OE1	45:DN:71:GLY:N	2.26	0.69
44:EA:8:HIS:O	44:EA:68:LEU:N	2.24	0.69
44:EC:428:LEU:HG	44:EC:432:TYR:CE2	2.27	0.69
44:EE:188:ILE:O	44:EE:191:THR:N	2.24	0.69
44:EE:363:VAL:CG2	44:EE:364:PRO:HD2	2.22	0.69
45:EF:170:VAL:HG22	45:EF:171:PRO:HD2	1.73	0.69
44:EG:90:GLU:O	44:EG:121:ARG:NH1	2.25	0.69
44:EG:317:MET:HG2	44:EG:377:MET:CB	2.22	0.69
45:EH:163:ILE:HG21	45:EH:251:ARG:HG2	1.74	0.69
45:EL:200:MET:HG3	45:EL:268:ILE:HG23	1.74	0.69
44:FE:87:PHE:HB3	44:FE:91:GLN:HE21	1.55	0.69
44:FG:276:ILE:HG23	44:FG:280:LYS:HE3	1.74	0.69
45:FH:166:THR:HG22	45:FH:198:GLU:O	1.90	0.69
45:FH:242:PHE:CD1	45:FH:356:ILE:HG13	2.27	0.69
45:FL:178:THR:N	45:FL:181:GLU:OE2	2.25	0.69
44:FM:188:ILE:HD12	44:FM:425:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:171:ILE:HG23	44:GA:204:LEU:O	1.92	0.69
44:GC:202:VAL:CG2	44:GC:270:SER:HB3	2.21	0.69
44:GI:141:VAL:O	44:GI:147:SER:HB3	1.92	0.69
44:HE:88:HIS:CE1	44:HE:90:GLU:HG2	2.27	0.69
44:HI:320:ARG:NE	44:HI:360:PRO:HG3	2.07	0.69
44:IA:273:ALA:HB1	44:IA:274:PRO:HA	1.73	0.69
44:IA:349:THR:HG1	45:ID:176:SER:HG	0.70	0.69
45:IB:309:ARG:N	45:IB:372:THR:OG1	2.22	0.69
44:IC:165:SER:O	44:IC:166:LYS:HD3	1.92	0.69
44:IE:320:ARG:HG3	44:IE:374:ALA:HB3	1.73	0.69
44:II:297:GLU:OE2	44:II:300:ASN:ND2	2.24	0.69
45:IL:213:ARG:HB3	45:IL:297:LYS:HZ1	1.57	0.69
44:IM:32:PRO:HB3	44:IM:83:TYR:CD1	2.27	0.69
45:IN:19:LYS:HD2	45:IN:227:HIS:HD2	1.57	0.69
45:IN:246:LEU:HD13	45:IN:353:ILE:CD1	2.22	0.69
45:JB:182:PRO:HG2	45:JB:388:MET:HE2	1.73	0.69
44:JC:265:ILE:HG13	44:JC:432:TYR:CE1	2.27	0.69
45:JN:86:ARG:HB2	45:KN:281:TYR:HB3	1.75	0.69
44:KG:12:GLY:O	44:KG:16:VAL:HG12	1.93	0.69
45:KH:360:GLY:O	45:KH:361:LEU:HD23	1.93	0.69
44:KK:3:GLU:HG2	44:KK:64:ARG:HH22	1.57	0.69
44:LM:11:GLN:HE22	45:LN:246:LEU:HA	1.56	0.69
44:LM:11:GLN:N	46:LM:501:GTP:O1B	2.23	0.69
44:MA:64:ARG:NH1	44:MA:129:CYS:SG	2.65	0.69
44:MC:209:ILE:HG12	44:MC:302:MET:SD	2.32	0.69
45:MD:12:CYS:SG	45:MD:138:SER:OG	2.51	0.69
44:MG:239:THR:HG23	44:MG:242:LEU:HD12	1.74	0.69
44:MK:326:LYS:HB2	45:MN:212:PHE:CZ	2.26	0.69
44:MM:210:TYR:HB3	45:MN:324:LYS:NZ	2.07	0.69
45:MN:244:GLY:HA2	45:MN:355:ASP:OD2	1.92	0.69
45:NB:67:ASP:OD1	45:NB:68:LEU:N	2.26	0.69
45:NF:26:ASP:HB3	45:NF:359:LYS:CD	2.22	0.69
45:NH:50:TYR:O	45:NH:62:ARG:HG2	1.91	0.69
45:NH:287:PRO:HG3	45:NH:329:GLN:NE2	1.98	0.69
45:NL:7:ILE:HB	45:NL:135:ILE:CD1	2.21	0.69
44:OA:261:PRO:HA	45:OD:394:PHE:CE1	2.27	0.69
44:OA:329:ASN:ND2	45:OD:175:VAL:HG12	2.07	0.69
45:OB:276:ARG:HA	45:OB:279:GLN:CG	2.22	0.69
45:OD:27:GLU:O	45:OD:43:GLN:NE2	2.16	0.69
44:OG:274:PRO:HB2	44:OG:276:ILE:CD1	2.22	0.69
45:OH:32:PRO:HG3	45:OH:81:PHE:CE2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:164:MET:HE3	45:OJ:196:ALA:HA	1.74	0.69
45:OL:178:THR:HG22	45:OL:180:VAL:H	1.55	0.69
45:OL:286:VAL:HG21	45:OL:325:GLU:OE1	1.91	0.69
45:ON:289:LEU:CD1	45:ON:363:MET:HB3	2.20	0.69
45:PB:133:PHE:HB2	45:PB:164:MET:CE	2.22	0.69
44:PC:91:GLN:HG3	44:PC:92:LEU:HD12	1.73	0.69
44:PC:123:ARG:HH12	44:QC:338:LYS:HE3	1.56	0.69
45:PD:213:ARG:HH21	45:PD:297:LYS:HE3	1.57	0.69
44:PK:265:ILE:HG23	44:PK:432:TYR:CE1	2.26	0.69
44:PK:278:ALA:HB2	44:PK:369:ALA:HB2	1.74	0.69
45:PN:292:GLN:NE2	45:PN:298:ASN:OD1	2.25	0.69
45:QB:404:ASP:OD1	45:QB:407:GLU:HG3	1.92	0.69
45:QD:293:MET:HG3	45:QD:367:PHE:HB2	1.71	0.69
44:QE:60:LYS:NZ	44:QE:85:GLN:O	2.24	0.69
44:QE:71:GLU:OE2	44:QE:73:THR:HG23	1.92	0.69
44:QG:105:ARG:O	44:QG:110:ILE:HG22	1.90	0.69
44:QK:417:GLU:O	44:QK:420:GLU:HG2	1.92	0.69
45:QL:377:MET:O	45:QL:381:VAL:HG23	1.93	0.69
44:QM:143:GLY:HA3	46:QM:501:GTP:O2B	1.92	0.69
45:QN:146:GLY:HA2	45:QN:149:THR:HG22	1.73	0.69
45:RB:334:GLN:HA	45:RB:341:PHE:CE2	2.27	0.69
45:RF:379:LYS:O	45:RF:383:GLU:N	2.21	0.69
44:RG:203:MET:N	44:RG:268:MET:O	2.23	0.69
44:RG:213:CYS:O	44:RG:217:LEU:HB2	1.92	0.69
44:SA:276:ILE:HD13	44:SA:281:ALA:HA	1.73	0.69
45:SB:21:TRP:CH2	45:SB:50:TYR:HB3	2.27	0.69
44:SE:155:GLU:HA	44:SE:197:HIS:CE1	2.26	0.69
45:SF:164:MET:HE3	45:SF:197:ASP:H	1.56	0.69
44:SG:434:GLU:O	44:SG:437:ILE:HG12	1.92	0.69
44:SI:207:GLU:HG3	44:SI:304:LYS:NZ	2.07	0.69
44:SM:52:PHE:O	44:SM:64:ARG:NH1	2.24	0.69
44:SM:76:ASP:O	44:SM:79:ARG:N	2.24	0.69
45:TD:68:LEU:HD12	45:TD:143:THR:OG1	1.92	0.69
44:TE:34:GLY:O	44:TE:60:LYS:HA	1.92	0.69
45:TF:178:THR:CG2	45:TF:180:VAL:HG12	2.22	0.69
45:TF:314:SER:CB	45:TF:350:LYS:HB3	2.22	0.69
44:TI:3:GLU:O	44:TI:133:GLN:N	2.24	0.69
44:TI:89:PRO:CG	44:UI:280:LYS:HG3	2.23	0.69
44:TI:311:LYS:HD2	44:TI:342:GLN:HE21	1.57	0.69
44:TK:9:VAL:HG12	44:TK:138:PHE:O	1.92	0.69
45:TL:259:PRO:HA	44:TM:404:PHE:CE2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:75:ILE:CG2	44:TM:92:LEU:HB3	2.21	0.69
44:TM:169:PHE:HB3	44:TM:204:LEU:HD11	1.74	0.69
44:TM:196:GLU:OE2	44:TM:264:ARG:NH1	2.23	0.69
44:TM:434:GLU:O	44:TM:437:ILE:HG12	1.92	0.69
45:TN:49:VAL:O	45:TN:62:ARG:NH2	2.23	0.69
45:TN:139:LEU:CD1	45:TN:168:SER:HB3	2.21	0.69
45:TN:198:GLU:HA	45:TN:264:HIS:HB2	1.74	0.69
44:UA:171:ILE:HD13	46:UA:501:GTP:C2	2.27	0.69
45:UB:49:VAL:HG11	45:UB:241:ARG:HD3	1.74	0.69
45:UD:16:ILE:HD13	45:UD:226:ASN:OD1	1.92	0.69
45:UD:58:ARG:HD3	45:VD:281:TYR:CD1	2.27	0.69
45:UD:248:SER:CA	45:UD:252:LYS:HD2	2.21	0.69
44:UG:109:THR:HG23	44:UG:110:ILE:HG23	1.74	0.69
44:UI:384:ILE:O	44:UI:387:VAL:HG22	1.92	0.69
44:UK:326:LYS:HD3	45:UL:212:PHE:CZ	2.27	0.69
45:UL:210:ILE:O	45:UL:214:THR:OG1	2.08	0.69
45:VB:200:MET:CE	45:VB:268:ILE:HG12	2.22	0.69
45:VD:288:GLU:O	45:VD:291:GLN:NE2	2.24	0.69
45:VD:294:PHE:CE2	45:VD:333:VAL:HG11	2.26	0.69
45:VF:151:LEU:O	45:VF:155:VAL:HG23	1.92	0.69
44:VG:100:ALA:O	45:VH:255:VAL:HG11	1.93	0.69
44:VG:427:ALA:O	44:VG:431:ASP:N	2.21	0.69
44:VI:13:GLY:O	44:VI:16:VAL:HG12	1.91	0.69
44:VI:23:LEU:HD21	44:VI:233:GLN:OE1	1.91	0.69
45:VJ:295:ASP:OD1	45:VJ:296:ALA:N	2.25	0.69
44:VM:262:TYR:CD2	44:VM:265:ILE:HD12	2.28	0.69
45:VN:36:TYR:HB2	45:VN:59:TYR:CE1	2.27	0.69
45:WB:4:ILE:HG22	45:WB:132:GLY:N	2.07	0.69
44:WC:68:LEU:HD21	44:WC:118:CYS:HB2	1.73	0.69
45:WD:99:ASN:HA	45:WD:142:GLY:CA	2.22	0.69
45:WF:202:ILE:HG23	45:WF:300:MET:CG	2.21	0.69
45:WF:241:ARG:HG3	45:WF:242:PHE:CD2	2.26	0.69
45:WF:286:VAL:O	45:WF:289:LEU:N	2.24	0.69
44:WI:383:ALA:O	44:WI:386:GLU:HG2	1.91	0.69
44:WM:425:LEU:O	44:WM:429:GLU:N	2.21	0.69
45:WN:417:ASP:OD1	45:WN:418:LEU:N	2.25	0.69
3:0B:242:PRO:HB3	45:JL:361:LEU:HG	1.72	0.69
5:0D:167:ILE:HB	44:EC:80:THR:HB	1.72	0.69
10:1N:190:PRO:HG2	44:KG:42:ILE:HG12	1.75	0.69
12:1S:46:TRP:CZ3	44:WC:60:LYS:HD3	2.27	0.69
32:2I:134:LYS:HB3	45:GD:329:GLN:NE2	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3T:147:PHE:CD1	45:MN:106:TYR:HB3	2.27	0.69
38:5G:203:PHE:CE1	44:LK:422:ARG:HD3	2.20	0.69
11:5Q:17:ILE:O	11:5Q:17:ILE:HG13	1.91	0.69
35:5R:107:PRO:HA	45:BL:360:GLY:CA	2.22	0.69
36:5S:111:GLU:O	36:5S:117:LYS:HG2	1.93	0.69
35:6R:535:LEU:O	35:6R:538:PHE:HB3	1.92	0.69
35:7R:138:GLY:O	45:BD:277:GLY:N	2.25	0.69
45:AD:320:ARG:HH12	45:AD:357:PRO:HG3	1.57	0.69
44:AK:242:LEU:HD11	44:AK:252:ILE:HG13	1.74	0.69
44:AM:301:MET:HA	44:AM:301:MET:HE3	1.73	0.69
45:BH:341:PHE:HB3	45:BH:348:ASN:HD21	1.58	0.69
44:BK:311:LYS:HZ2	44:BK:342:GLN:HB2	1.57	0.69
45:BN:67:ASP:OD2	45:BN:72:THR:HG21	1.92	0.69
45:CH:156:ARG:HD3	45:CH:195:ASN:HB3	1.74	0.69
44:CI:118:CYS:O	44:CI:122:ILE:HG12	1.91	0.69
44:CK:200:VAL:HG13	44:CK:268:MET:HE1	1.74	0.69
44:CM:211:ASP:HB3	44:CM:215:ARG:NH1	2.05	0.69
44:DA:319:TYR:CD2	44:DA:323:VAL:HG21	2.28	0.69
45:DH:350:LYS:HD2	45:DH:351:SER:H	1.57	0.69
44:DK:105:ARG:O	44:DK:110:ILE:HG12	1.91	0.69
45:DL:133:PHE:HB2	45:DL:164:MET:HE2	1.73	0.69
45:EF:67:ASP:OD2	45:EF:72:THR:HG21	1.92	0.69
45:EF:124:ALA:HB1	45:EF:130:LEU:HD22	1.74	0.69
45:EJ:73:MET:O	45:EJ:76:VAL:HG12	1.92	0.69
45:EJ:135:ILE:HG13	45:EJ:152:ILE:CD1	2.22	0.69
44:FA:53:PHE:HE1	44:FA:63:PRO:HG3	1.57	0.69
44:FA:53:PHE:CE1	44:FA:63:PRO:HG3	2.26	0.69
45:FB:420:SER:HA	45:FB:423:GLN:HG3	1.75	0.69
44:FC:171:ILE:HG23	44:FC:204:LEU:O	1.91	0.69
44:FE:188:ILE:HD12	44:FE:425:LEU:HD11	1.74	0.69
45:FF:238:CYS:SG	45:FF:318:ARG:NE	2.65	0.69
44:FI:28:HIS:ND1	44:FI:49:PHE:HA	2.07	0.69
44:FI:287:SER:O	44:FI:291:ILE:HG12	1.91	0.69
44:GA:145:THR:HG22	46:GB:501:GTP:O3B	1.91	0.69
45:GD:310:TYR:HA	45:GD:371:SER:HA	1.74	0.69
45:GF:190:HIS:ND1	45:GF:411:ALA:HA	2.07	0.69
45:GF:262:ARG:NH1	45:GF:421:GLU:OE1	2.25	0.69
44:GG:137:VAL:HG22	44:GG:167:LEU:O	1.91	0.69
44:GG:203:MET:HE2	44:GG:205:ASP:HB3	1.73	0.69
45:GH:112:LEU:O	45:GH:112:LEU:HD23	1.93	0.69
44:GK:221:ARG:NH1	45:GL:325:GLU:OE1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:261:PRO:HA	45:GN:397:TRP:HZ2	1.57	0.69
45:GL:54:ALA:HB1	45:HL:282:ARG:O	1.92	0.69
45:GL:215:LEU:HD21	45:GL:273:LEU:HD13	1.74	0.69
45:GL:314:SER:HB2	45:GL:350:LYS:H	1.58	0.69
44:GM:193:SER:HA	44:GM:196:GLU:OE2	1.92	0.69
45:HB:39:ASP:OD1	45:HB:40:SER:N	2.26	0.69
45:HB:287:PRO:HG3	45:HB:329:GLN:NE2	2.07	0.69
45:HH:86:ARG:CD	45:IH:281:TYR:HB3	2.20	0.69
45:HH:311:LEU:HD23	45:HH:342:VAL:HG21	1.72	0.69
45:HJ:22:GLU:HG2	45:HJ:81:PHE:CD2	2.24	0.69
44:HM:324:VAL:HG22	44:HM:325:PRO:HD2	1.73	0.69
45:HN:157:GLU:OE1	45:HN:158:GLU:HG3	1.91	0.69
45:HN:178:THR:HG22	45:HN:179:VAL:H	1.56	0.69
45:HN:303:ALA:HB2	45:HN:377:MET:HG2	1.73	0.69
44:IA:387:VAL:O	44:IA:390:ARG:HG2	1.91	0.69
45:IB:306:ARG:HB2	45:IB:340:TYR:HE1	1.56	0.69
45:IB:309:ARG:NH1	45:IB:342:VAL:HA	2.07	0.69
45:IB:341:PHE:HB3	45:IB:348:ASN:HD21	1.57	0.69
45:ID:139:LEU:HD13	45:ID:168:SER:CB	2.22	0.69
45:ID:388:MET:HE3	45:ID:394:PHE:HD2	1.56	0.69
45:IF:20:PHE:O	45:IF:24:ILE:HD12	1.92	0.69
44:II:174:SER:HB2	44:II:177:VAL:O	1.92	0.69
44:II:332:ILE:HD12	44:II:351:PHE:CD2	2.27	0.69
44:IK:75:ILE:O	44:IK:78:VAL:HG12	1.93	0.69
44:IK:224:TYR:HE2	45:IL:246:LEU:HD11	1.57	0.69
44:IK:254:GLU:HG2	45:IN:98:GLY:HA2	1.74	0.69
45:IN:134:GLN:O	45:IN:135:ILE:HD13	1.92	0.69
44:JA:269:LEU:HD23	44:JA:379:SER:O	1.91	0.69
44:JE:311:LYS:HA	44:JE:342:GLN:NE2	2.08	0.69
45:JF:317:PHE:HB2	45:JF:353:ILE:HD13	1.72	0.69
44:JK:335:ILE:HD13	44:JK:338:LYS:HZ1	1.57	0.69
44:JM:56:THR:HB	44:JM:60:LYS:HE3	1.73	0.69
44:JM:202:VAL:HA	44:JM:268:MET:O	1.92	0.69
45:JN:3:GLU:HG3	45:JN:62:ARG:NH1	2.07	0.69
45:JN:324:LYS:NZ	45:JN:328:GLU:OE1	2.25	0.69
44:KC:239:THR:CG2	44:KC:242:LEU:HD12	2.22	0.69
44:KE:101:ASN:OD1	45:KF:252:LYS:HG3	1.93	0.69
44:KE:112:LYS:HE3	44:KE:113:GLU:OE2	1.92	0.69
45:KL:135:ILE:HG13	45:KL:152:ILE:HD11	1.74	0.69
44:LE:407:TRP:HH2	45:LF:258:ILE:HD12	1.57	0.69
44:LG:3:GLU:OE2	44:LG:129:CYS:HA	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LI:27:GLU:OE1	44:LI:243:ARG:NH2	2.25	0.69
44:LI:204:LEU:HD13	44:LI:231:ILE:HD12	1.73	0.69
45:LN:172:SER:HG	45:LN:174:LYS:HZ3	1.40	0.69
45:MB:293:MET:HE1	45:MB:365:VAL:HG12	1.75	0.69
45:MF:139:LEU:HD23	45:MF:188:SER:OG	1.92	0.69
45:MF:334:GLN:HG2	45:MF:341:PHE:HD2	1.57	0.69
45:NB:6:HIS:CE1	45:NB:8:GLN:HB2	2.28	0.69
45:NB:60:VAL:HG21	45:NB:86:ARG:HD2	1.74	0.69
44:NG:54:SER:HB3	44:NG:64:ARG:HH21	1.58	0.69
44:NI:210:TYR:CD2	45:NJ:324:LYS:HD3	2.28	0.69
44:NI:320:ARG:HD2	44:NI:360:PRO:CG	2.21	0.69
45:NJ:200:MET:HE3	45:NJ:200:MET:HA	1.73	0.69
44:NM:403:ALA:HA	45:NN:260:PHE:CE2	2.24	0.69
45:NN:421:GLU:O	45:NN:424:GLN:HG3	1.91	0.69
44:OE:3:GLU:HG3	44:OE:129:CYS:SG	2.32	0.69
45:OF:286:VAL:CG2	45:OF:287:PRO:HD3	2.22	0.69
44:OG:340:THR:HG23	44:OG:341:ILE:HG12	1.75	0.69
45:OL:141:GLY:HA3	48:OL:502:GDP:O3A	1.92	0.69
44:PA:212:ILE:CD1	44:PA:300:ASN:HA	2.22	0.69
45:PD:310:TYR:HA	45:PD:371:SER:HB2	1.74	0.69
44:PE:10:GLY:O	44:PE:14:ILE:HG12	1.93	0.69
44:PE:292:THR:HG21	44:PE:331:SER:HB3	1.73	0.69
45:PF:20:PHE:CD2	45:PF:25:SER:CB	2.75	0.69
45:PF:420:SER:O	45:PF:423:GLN:HG3	1.91	0.69
44:PG:71:GLU:OE1	45:PH:247:ASN:ND2	2.25	0.69
45:PL:260:PHE:HB3	45:PL:261:PRO:CD	2.23	0.69
44:PM:191:THR:O	44:PM:195:LEU:HB2	1.92	0.69
45:QD:246:LEU:HD11	44:QE:224:TYR:CE2	2.19	0.69
45:QF:293:MET:HB3	45:QF:365:VAL:HG11	1.74	0.69
44:QG:325:PRO:O	44:QG:328:VAL:HG12	1.91	0.69
44:RA:434:GLU:O	44:RA:437:ILE:HG12	1.92	0.69
45:RB:104:GLY:HA3	45:RB:143:THR:HA	1.75	0.69
45:RB:258:ILE:HG13	45:RB:266:PHE:HZ	1.58	0.69
45:RD:169:VAL:HG23	45:RD:202:ILE:O	1.91	0.69
45:RD:200:MET:HE1	45:RD:268:ILE:N	2.07	0.69
45:RD:213:ARG:HH21	45:RD:297:LYS:HD2	1.56	0.69
44:RE:105:ARG:O	44:RE:110:ILE:HG12	1.92	0.69
45:RF:10:GLY:O	45:RF:14:ASN:N	2.24	0.69
45:RJ:187:LEU:HD11	45:RJ:408:PHE:CE1	2.27	0.69
44:RK:387:VAL:HA	44:RK:390:ARG:HG2	1.73	0.69
44:RM:136:LEU:CD2	44:RM:167:LEU:HB2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:207:GLU:HA	44:SA:210:TYR:CD2	2.27	0.69
44:SE:103:PHE:HB2	44:SE:186:ASN:ND2	2.07	0.69
44:SE:154:LEU:HD23	44:SE:157:LEU:HD12	1.73	0.69
45:SF:185:ALA:O	45:SF:188:SER:OG	2.09	0.69
45:SF:211:CYS:O	45:SF:215:LEU:HB2	1.92	0.69
45:SF:372:THR:HA	45:SF:422:TYR:CE2	2.26	0.69
44:SG:203:MET:N	44:SG:268:MET:O	2.20	0.69
44:TA:274:PRO:HB3	44:TA:291:ILE:HG22	1.72	0.69
44:TE:278:ALA:HB2	44:TE:369:ALA:HB2	1.75	0.69
45:TJ:20:PHE:O	45:TJ:24:ILE:HG12	1.91	0.69
44:TK:328:VAL:O	44:TK:332:ILE:HD12	1.91	0.69
45:TL:316:LEU:O	45:TL:365:VAL:HA	1.92	0.69
44:TM:68:LEU:HD22	44:TM:153:LEU:HD11	1.75	0.69
44:TM:194:LEU:O	44:TM:198:THR:OG1	2.09	0.69
44:UA:161:TYR:HB3	44:UA:164:LYS:CG	2.23	0.69
44:UC:29:GLY:O	44:UC:31:GLN:NE2	2.25	0.69
45:UD:24:ILE:HD11	45:UD:234:SER:HB3	1.74	0.69
44:UG:145:THR:HG22	46:UG:501:GTP:PG	2.32	0.69
44:UI:427:ALA:O	44:UI:430:LYS:HG2	1.93	0.69
45:UJ:1:MET:CE	44:UK:96:LYS:HB3	2.22	0.69
45:UJ:323:THR:O	45:UJ:327:ASP:N	2.24	0.69
44:UK:80:THR:HA	44:UK:84:ARG:NH2	2.07	0.69
45:UL:51:TYR:HE1	45:UL:61:PRO:HG3	1.57	0.69
45:UL:163:ILE:HD11	45:UL:250:LEU:HD12	1.72	0.69
45:UN:12:CYS:O	45:UN:16:ILE:HG12	1.92	0.69
45:UN:207:LEU:CD1	45:UN:225:LEU:HB3	2.21	0.69
44:VA:128:ASN:OD1	44:WA:285:GLN:NE2	2.25	0.69
45:VB:186:THR:HG23	45:VB:415:MET:SD	2.31	0.69
45:VB:316:LEU:HB2	45:VB:366:THR:CG2	2.21	0.69
45:VH:52:ASN:OD1	45:VH:62:ARG:NH2	2.24	0.69
45:VH:86:ARG:HG3	45:VH:89:ASN:H	1.57	0.69
45:VN:20:PHE:CE1	45:VN:24:ILE:HD11	2.27	0.69
44:WA:101:ASN:HA	44:WA:144:GLY:CA	2.22	0.69
44:WA:217:LEU:HB3	44:WA:219:ILE:HG13	1.74	0.69
44:WA:272:TYR:CB	44:WA:302:MET:HE1	2.15	0.69
45:WD:222:TYR:CD1	45:WD:225:LEU:HD12	2.28	0.69
44:WE:346:TRP:CD1	45:WH:391:ARG:HG3	2.27	0.69
45:WF:310:TYR:CD1	45:WF:371:SER:HB2	2.27	0.69
44:WI:67:PHE:HB2	44:WI:92:LEU:HD13	1.73	0.69
44:WI:101:ASN:OD1	45:WJ:252:LYS:HG3	1.91	0.69
44:WI:242:LEU:HD11	44:WI:252:ILE:HG13	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:174:SER:HB2	44:WK:177:VAL:O	1.92	0.69
44:WK:263:PRO:HD3	45:WN:396:HIS:CE1	2.27	0.69
45:WL:227:HIS:HA	45:WL:230:SER:HB2	1.74	0.69
1:6H:382:PHE:CE1	44:FK:26:LEU:HD22	2.27	0.69
12:OS:253:ARG:NH1	45:AB:417:ASP:OD2	2.25	0.69
9:1H:275:TYR:OH	45:HF:362:LYS:HG3	1.92	0.69
32:2I:140:ILE:HD13	45:FD:118:ASP:OD2	1.93	0.69
24:2O:431:ILE:CD1	44:VA:279:GLU:HA	2.22	0.69
12:3S:46:TRP:CZ2	44:WK:88:HIS:HA	2.28	0.69
16:3X:99:VAL:HG22	44:MK:282:TYR:OH	1.91	0.69
38:5E:57:SER:O	45:OB:361:LEU:HD11	1.92	0.69
35:5R:129:VAL:CG2	35:5R:145:ILE:HD12	2.19	0.69
40:6F:62:GLN:HG2	44:IE:84:ARG:NH2	2.07	0.69
45:AB:85:PHE:HB3	45:AB:90:PHE:CZ	2.23	0.69
44:AC:405:VAL:O	44:AC:409:VAL:HG23	1.93	0.69
44:AE:132:LEU:HD12	44:AE:132:LEU:O	1.91	0.69
44:AE:257:THR:O	44:AE:258:ASN:ND2	2.25	0.69
45:AF:378:PHE:HB3	45:AF:419:VAL:HG22	1.74	0.69
44:AI:96:LYS:HB3	45:AJ:1:MET:CE	2.22	0.69
44:AI:283:HIS:ND1	44:MI:89:PRO:HD3	2.07	0.69
44:AK:105:ARG:HH21	44:AK:110:ILE:HG21	1.56	0.69
44:BA:143:GLY:HA3	46:BA:501:GTP:O2B	1.92	0.69
45:BD:194:GLU:OE2	45:BD:195:ASN:HB2	1.93	0.69
44:BE:176:GLN:NE2	44:BE:207:GLU:OE2	2.25	0.69
45:BH:141:GLY:HA3	48:BH:502:GDP:PA	2.31	0.69
44:BK:5:ILE:HG22	44:BK:7:ILE:HD11	1.73	0.69
44:BK:237:SER:HA	44:BK:320:ARG:HH11	1.57	0.69
45:BN:51:TYR:HE1	45:BN:61:PRO:HG3	1.57	0.69
44:CA:262:TYR:OH	45:CB:391:ARG:HB3	1.92	0.69
44:CA:288:VAL:HG11	44:CA:327:ASP:CB	2.21	0.69
45:CB:257:LEU:HB3	45:CB:266:PHE:CZ	2.27	0.69
44:CE:319:TYR:O	44:CE:355:ILE:HA	1.92	0.69
44:CG:8:HIS:CD2	44:CG:138:PHE:HB2	2.27	0.69
44:CI:13:GLY:HA2	44:CI:16:VAL:HG12	1.74	0.69
44:DA:235:ILE:O	44:DA:239:THR:HG23	1.91	0.69
44:DA:243:ARG:HD2	44:DA:243:ARG:O	1.93	0.69
44:DC:292:THR:HG21	44:DC:331:SER:HB3	1.73	0.69
45:DD:189:VAL:O	45:DD:192:LEU:N	2.25	0.69
45:DJ:86:ARG:HH21	45:EJ:278:SER:HG	1.38	0.69
45:DJ:278:SER:O	45:DJ:279:GLN:NE2	2.24	0.69
44:DK:112:LYS:O	44:DK:115:VAL:HG22	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:183:GLU:HG2	44:DK:184:PRO:HD3	1.75	0.69
45:EB:317:PHE:HA	45:EB:365:VAL:HG22	1.74	0.69
45:ED:233:MET:O	45:ED:236:VAL:HG12	1.91	0.69
45:EH:216:LYS:CE	45:EH:275:SER:HB3	2.22	0.69
44:EI:276:ILE:CD1	44:EI:281:ALA:HA	2.21	0.69
44:EM:37:PRO:CG	44:EM:40:LYS:HB2	2.22	0.69
44:FA:237:SER:OG	44:FA:320:ARG:NH1	2.23	0.69
45:FB:135:ILE:CG1	45:FB:152:ILE:HD11	2.17	0.69
45:FB:139:LEU:N	45:FB:169:VAL:O	2.26	0.69
44:FC:11:GLN:HG3	44:FC:74:VAL:HG11	1.74	0.69
44:FK:67:PHE:O	44:FK:68:LEU:HD23	1.91	0.69
44:FK:259:LEU:HD23	44:FK:314:ALA:HB1	1.74	0.69
44:FK:277:SER:CA	44:FK:369:ALA:HB2	2.22	0.69
45:FL:3:GLU:CB	45:FL:49:VAL:HA	2.22	0.69
44:GA:287:SER:O	44:GA:290:GLU:HG2	1.92	0.69
45:GB:50:TYR:O	45:GB:61:PRO:HA	1.92	0.69
45:GB:131:GLN:HG3	45:GB:163:ILE:HD11	1.74	0.69
45:GD:159:TYR:HB3	45:GD:162:ARG:HG3	1.74	0.69
44:GE:265:ILE:HG12	44:GE:432:TYR:CE1	2.26	0.69
45:GF:322:SER:O	45:GF:325:GLU:HG2	1.93	0.69
45:GH:21:TRP:HA	45:GH:24:ILE:HG22	1.75	0.69
45:GH:186:THR:HA	45:GH:415:MET:CE	2.23	0.69
45:GH:329:GLN:HA	45:GH:332:ASN:HB3	1.73	0.69
44:GI:288:VAL:HG11	44:GI:327:ASP:HB3	1.73	0.69
44:GM:231:ILE:O	44:GM:234:VAL:HB	1.92	0.69
45:GN:200:MET:CE	45:GN:266:PHE:HB2	2.23	0.69
45:GN:221:THR:HG23	45:GN:224:ASP:H	1.58	0.69
44:HA:183:GLU:HG3	44:HA:184:PRO:HD3	1.73	0.69
45:HB:200:MET:HA	45:HB:266:PHE:O	1.92	0.69
45:HB:257:LEU:HD11	45:HB:314:SER:HB2	1.74	0.69
44:HC:91:GLN:O	44:HC:93:ILE:HD12	1.91	0.69
44:HG:320:ARG:NH1	44:HG:360:PRO:HG3	2.07	0.69
45:HH:310:TYR:CD1	45:HH:371:SER:HB3	2.28	0.69
44:HI:226:ASN:HD22	44:HI:229:ARG:HH12	1.39	0.69
44:HK:91:GLN:O	44:HK:93:ILE:HD12	1.93	0.69
44:HK:181:VAL:HG12	45:HL:256:ASN:OD1	1.90	0.69
45:ID:119:VAL:O	45:ID:122:LYS:HG3	1.92	0.69
45:IF:215:LEU:HD21	45:IF:273:LEU:HD11	1.74	0.69
45:IF:390:ARG:O	45:IF:391:ARG:HD2	1.93	0.69
44:IG:223:THR:HG23	44:IG:225:THR:H	1.55	0.69
45:IH:217:LEU:HD11	45:IH:220:PRO:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:104:ALA:HB3	44:IM:411:GLU:HB2	1.75	0.69
44:IM:221:ARG:NH2	45:IN:322:SER:O	2.26	0.69
44:IM:320:ARG:NH2	44:IM:359:PRO:O	2.24	0.69
45:IN:267:MET:SD	45:IN:299:MET:HE2	2.32	0.69
44:JK:99:ALA:HB2	44:JK:145:THR:HB	1.74	0.69
44:JK:237:SER:HA	44:JK:320:ARG:NH1	2.03	0.69
44:JK:270:SER:O	44:JK:302:MET:HB2	1.92	0.69
45:JN:83:GLN:O	45:KN:281:TYR:OH	2.05	0.69
45:JN:175:VAL:CG2	45:JN:205:GLU:HG3	2.23	0.69
44:KA:3:GLU:HG2	44:KA:64:ARG:NH1	2.07	0.69
44:KA:69:ASP:OD1	44:KA:70:LEU:N	2.26	0.69
45:KD:2:ARG:HB2	45:KD:131:GLN:CG	2.22	0.69
45:KD:143:THR:HG22	48:KD:501:GDP:O2B	1.92	0.69
45:KL:1:MET:O	45:KL:2:ARG:HD3	1.93	0.69
45:LB:274:THR:OG1	45:LB:282:ARG:NH1	2.24	0.69
45:LD:284:LEU:HB3	45:LD:363:MET:CE	2.22	0.69
45:LH:288:GLU:O	45:LH:291:GLN:HG3	1.92	0.69
44:LM:321:GLY:O	44:LM:357:TYR:HA	1.92	0.69
45:LN:130:LEU:HD21	45:LN:133:PHE:CE1	2.27	0.69
45:MB:323:THR:O	45:MB:326:VAL:N	2.25	0.69
44:MC:324:VAL:HG13	44:MC:325:PRO:HD2	1.72	0.69
44:ME:71:GLU:OE1	45:MF:247:ASN:ND2	2.23	0.69
45:MF:239:CYS:HB3	45:MF:354:CYS:HB2	1.74	0.69
44:MI:210:TYR:HD2	45:MJ:324:LYS:HG3	1.58	0.69
44:MK:164:LYS:HA	44:MK:164:LYS:CE	2.20	0.69
44:MK:275:ILE:HG23	44:MK:368:LEU:CD1	2.22	0.69
44:NA:52:PHE:HE2	44:NA:243:ARG:HD3	1.58	0.69
44:NC:331:SER:O	44:NC:334:THR:HG22	1.92	0.69
45:NF:317:PHE:HA	45:NF:365:VAL:CG1	2.16	0.69
45:OB:200:MET:CE	45:OB:266:PHE:HB2	2.22	0.69
45:OD:257:LEU:HA	45:OD:312:THR:HG21	1.74	0.69
44:OK:430:LYS:HA	44:OK:433:GLU:HG2	1.74	0.69
45:OL:272:PRO:HD2	45:OL:361:LEU:HD13	1.74	0.69
44:PG:276:ILE:HG23	44:PG:281:ALA:HB2	1.74	0.69
44:PK:323:VAL:HG22	44:PK:373:ARG:CZ	2.22	0.69
44:PM:400:ALA:O	44:PM:401:LYS:HE2	1.93	0.69
45:PN:2:ARG:HB2	45:PN:131:GLN:OE1	1.91	0.69
44:QA:174:SER:HB3	44:QA:207:GLU:HB2	1.72	0.69
45:QB:322:SER:OG	44:QC:222:PRO:O	2.11	0.69
45:QD:255:VAL:HA	44:QE:407:TRP:CZ3	2.27	0.69
44:QE:199:ASP:O	44:QE:266:HIS:HB2	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:33:ASP:CB	44:QG:35:GLN:HE22	2.05	0.69
45:QH:256:ASN:OD1	44:QI:181:VAL:HG22	1.92	0.69
44:QI:319:TYR:HB2	44:QI:323:VAL:HG11	1.73	0.69
45:QJ:319:GLY:CA	45:QJ:357:PRO:HG3	2.23	0.69
44:RA:102:ASN:ND2	44:RA:407:TRP:O	2.26	0.69
45:RB:31:ASP:OD2	45:RB:37:HIS:ND1	2.26	0.69
45:RB:199:CYS:HB3	45:RB:264:HIS:O	1.91	0.69
44:RE:141:VAL:CG1	44:RE:172:TYR:HA	2.21	0.69
45:RF:12:CYS:O	45:RF:16:ILE:HD12	1.91	0.69
45:RF:101:TRP:CE3	45:RF:187:LEU:HD13	2.28	0.69
45:RJ:238:CYS:HB2	45:RJ:318:ARG:NH2	2.07	0.69
45:RJ:263:LEU:HG	45:RJ:422:TYR:HD1	1.56	0.69
44:SA:259:LEU:O	44:SA:380:ASN:ND2	2.24	0.69
45:SD:2:ARG:NH2	45:SD:240:LEU:HG	2.06	0.69
44:SG:155:GLU:HG2	44:SG:197:HIS:ND1	2.06	0.69
44:TA:294:SER:HA	44:TA:297:GLU:HG3	1.75	0.69
45:TD:401:GLU:HB2	45:TD:403:MET:CE	2.22	0.69
45:TF:312:THR:O	45:TF:370:ASN:N	2.26	0.69
44:TG:189:LEU:HD23	44:TG:421:ALA:HB2	1.74	0.69
44:TG:195:LEU:HD12	44:TG:266:HIS:CE1	2.27	0.69
44:TI:55:GLU:OE2	44:TI:57:GLY:N	2.25	0.69
44:TI:88:HIS:HE1	44:TI:90:GLU:HG2	1.55	0.69
44:TI:268:MET:HB2	44:TI:379:SER:O	1.93	0.69
45:TJ:362:LYS:N	45:TJ:362:LYS:HD2	2.07	0.69
44:TK:93:ILE:HG23	44:TK:117:LEU:HD23	1.74	0.69
44:TM:223:THR:HG23	44:TM:225:THR:H	1.57	0.69
45:TN:12:CYS:O	45:TN:16:ILE:HG12	1.91	0.69
44:UA:31:GLN:HG2	44:UA:35:GLN:O	1.92	0.69
44:UC:252:ILE:HA	44:UC:255:PHE:CD2	2.27	0.69
45:UD:267:MET:HE1	45:UD:301:CYS:N	2.07	0.69
44:UG:103:PHE:HB3	44:UG:408:TYR:CE1	2.27	0.69
45:UL:238:CYS:SG	45:UL:318:ARG:NE	2.64	0.69
44:UM:269:LEU:HD23	44:UM:379:SER:O	1.93	0.69
44:UM:317:MET:HG2	44:UM:378:ILE:H	1.58	0.69
44:UM:419:SER:O	44:UM:423:GLU:HG3	1.92	0.69
45:VB:74:ASP:O	45:VB:77:ARG:NH1	2.21	0.69
45:VB:272:PRO:HD2	45:VB:361:LEU:HD13	1.75	0.69
44:VC:242:LEU:HD11	44:VC:252:ILE:CD1	2.23	0.69
45:VD:12:CYS:HB3	45:VD:138:SER:HB3	1.74	0.69
45:VF:193:VAL:HG23	45:VF:264:HIS:CE1	2.27	0.69
44:VG:188:ILE:HG22	44:VG:421:ALA:HB1	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:254:GLU:HA	44:VG:257:THR:CG2	2.22	0.69
44:WA:311:LYS:HD2	44:WA:342:GLN:HG3	1.74	0.69
44:WE:178:SER:OG	45:WF:347:ASN:HB3	1.91	0.69
45:WH:197:ASP:O	45:WH:198:GLU:HG3	1.93	0.69
45:WH:242:PHE:CD1	45:WH:356:ILE:HG13	2.26	0.69
44:WI:276:ILE:CD1	44:WI:281:ALA:HA	2.22	0.69
44:WM:296:PHE:HE1	44:WM:377:MET:HE3	1.57	0.69
5:1D:27:ILE:HD13	45:DF:39:ASP:HB3	1.74	0.69
18:1F:60:ASN:HD21	45:GL:36:TYR:HB3	1.54	0.69
25:1P:340:ARG:HH11	44:TC:31:GLN:HG3	1.56	0.69
25:1P:392:LYS:HA	44:TA:370:LYS:NZ	2.05	0.69
5:2D:187:PHE:HA	44:FI:221:ARG:HG3	1.74	0.69
32:2I:90:TYR:OH	44:GE:218:ASP:OD1	2.10	0.69
12:2S:43:TYR:HB2	44:WG:88:HIS:CE1	2.27	0.69
12:2S:275:TYR:HE2	45:WJ:86:ARG:HD2	1.56	0.69
12:3S:43:TYR:HB2	44:WK:88:HIS:NE2	2.06	0.69
37:5C:108:ARG:HD3	44:KI:393:HIS:CE1	2.27	0.69
11:5Q:26:ASP:OD1	11:5Q:27:LYS:N	2.25	0.69
11:5Q:69:LEU:O	11:5Q:71:ILE:HD12	1.93	0.69
35:6R:391:PHE:CZ	45:EN:228:LEU:CD2	2.75	0.69
35:7R:352:CYS:HG	35:7R:356:THR:HG1	0.72	0.69
35:7R:366:LEU:HD23	35:7R:367:GLN:O	1.92	0.69
43:8P:141:UNK:O	43:8P:145:UNK:N	2.25	0.69
44:AC:210:TYR:HE1	44:AC:227:LEU:HD21	1.57	0.69
44:AC:265:ILE:HG12	44:AC:432:TYR:CE1	2.27	0.69
45:AD:330:MET:HE3	45:AD:333:VAL:HG11	1.74	0.69
45:AF:68:LEU:HD23	45:AF:97:ALA:HB2	1.73	0.69
45:AF:230:SER:O	45:AF:233:MET:HB2	1.92	0.69
45:AF:316:LEU:HD23	45:AF:352:SER:HB2	1.74	0.69
45:AN:86:ARG:HH11	45:BN:281:TYR:HB2	1.57	0.69
45:BF:259:PRO:CD	45:BF:263:LEU:HD23	2.23	0.69
44:BG:2:ARG:O	44:BG:51:THR:HA	1.92	0.69
45:BJ:87:PRO:HD3	45:CH:281:TYR:CE2	2.28	0.69
45:BJ:99:ASN:HA	45:BJ:142:GLY:CA	2.19	0.69
45:BJ:304:ASP:HB3	45:BJ:307:HIS:CD2	2.26	0.69
45:BL:266:PHE:CE1	45:BL:370:ASN:HB2	2.28	0.69
44:CA:254:GLU:OE2	45:CB:98:GLY:HA2	1.92	0.69
44:CC:19:ALA:HB1	44:CC:232:ALA:HB2	1.74	0.69
44:CE:340:THR:HG23	44:CE:341:ILE:HG13	1.73	0.69
44:DA:216:ASN:HB3	44:DA:275:ILE:O	1.91	0.69
44:DG:188:ILE:HG23	44:DG:425:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:173:PRO:HG3	45:DH:380:ARG:HD3	1.73	0.69
45:DJ:257:LEU:HA	45:DJ:312:THR:HG21	1.74	0.69
45:DJ:263:LEU:HG	45:DJ:422:TYR:HD1	1.58	0.69
44:DM:269:LEU:HD23	44:DM:379:SER:O	1.92	0.69
45:EB:247:ASN:O	45:EB:252:LYS:NZ	2.22	0.69
44:EC:155:GLU:HA	44:EC:197:HIS:CE1	2.27	0.69
45:ED:329:GLN:O	45:ED:333:VAL:HG23	1.92	0.69
45:EF:114:ASP:OD1	45:EF:115:SER:N	2.26	0.69
45:EF:263:LEU:HD22	45:EF:422:TYR:HD1	1.57	0.69
44:EG:212:ILE:HD12	44:EG:300:ASN:OD1	1.90	0.69
44:EI:131:GLY:O	44:EI:133:GLN:NE2	2.22	0.69
45:EJ:103:LYS:HA	45:EJ:107:THR:CG2	2.22	0.69
45:EJ:256:ASN:HD22	45:EJ:350:LYS:CD	2.03	0.69
45:EJ:329:GLN:O	45:EJ:333:VAL:HG23	1.92	0.69
45:EJ:383:GLU:O	45:EJ:386:THR:HG22	1.91	0.69
45:EL:324:LYS:HD3	45:EL:327:ASP:OD2	1.91	0.69
44:FA:104:ALA:O	44:FA:108:TYR:N	2.26	0.69
45:FB:25:SER:HB3	45:FB:81:PHE:CE2	2.27	0.69
44:FG:289:ALA:O	44:FG:292:THR:HG22	1.91	0.69
45:FH:156:ARG:HH11	45:FH:156:ARG:HG3	1.58	0.69
44:FK:434:GLU:O	44:FK:437:ILE:HG12	1.91	0.69
44:FM:71:GLU:O	44:FM:74:VAL:HG22	1.92	0.69
44:FM:284:GLU:HG3	44:FM:286:LEU:CD2	2.22	0.69
45:FN:46:ARG:O	45:FN:49:VAL:HG23	1.93	0.69
44:GC:56:THR:HG23	44:GC:58:ALA:H	1.58	0.69
44:GI:89:PRO:HD3	44:HI:283:HIS:ND1	2.08	0.69
44:HA:53:PHE:CE2	44:HA:63:PRO:HG3	2.27	0.69
44:HA:89:PRO:HG2	44:IA:280:LYS:HG3	1.74	0.69
45:HB:3:GLU:HB3	45:HB:49:VAL:HG22	1.74	0.69
45:HB:105:HIS:CE1	45:HB:150:LEU:HD12	2.26	0.69
45:HB:256:ASN:HB2	45:HB:350:LYS:HD2	1.74	0.69
44:HC:340:THR:HG23	44:HC:341:ILE:CD1	2.22	0.69
45:HH:238:CYS:HA	45:HH:241:ARG:NH1	2.07	0.69
45:HH:268:ILE:HG22	45:HH:368:VAL:HG22	1.73	0.69
45:HJ:271:ALA:HB1	45:HJ:272:PRO:HA	1.74	0.69
44:HK:362:VAL:HB	44:HK:370:LYS:HB2	1.73	0.69
45:HN:190:HIS:CE1	45:HN:411:ALA:HA	2.27	0.69
44:IA:181:VAL:HG22	45:IB:256:ASN:CB	2.19	0.69
44:IC:123:ARG:O	44:IC:123:ARG:NH1	2.20	0.69
44:IE:215:ARG:NH1	44:IE:216:ASN:OD1	2.26	0.69
45:IF:355:ASP:O	45:IF:356:ILE:HD13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:60:LYS:CE	45:JJ:281:TYR:HA	2.21	0.69
45:IN:55:THR:HG23	44:JK:285:GLN:O	1.91	0.69
45:IN:208:TYR:HE1	45:IN:225:LEU:HD11	1.58	0.69
45:JB:11:GLN:CA	45:JB:72:THR:HG21	2.17	0.69
45:JB:309:ARG:O	45:JB:371:SER:OG	2.09	0.69
44:JC:292:THR:HG21	44:JC:331:SER:CB	2.21	0.69
45:JH:417:ASP:O	45:JH:421:GLU:HG3	1.92	0.69
44:JI:10:GLY:O	44:JI:14:ILE:N	2.22	0.69
45:JJ:399:THR:HA	45:JJ:403:MET:O	1.92	0.69
44:JK:14:ILE:HG21	44:JK:74:VAL:CG1	2.15	0.69
44:JK:261:PRO:HG2	44:JK:313:MET:HE2	1.74	0.69
44:JM:141:VAL:HG21	44:JM:172:TYR:CE1	2.27	0.69
44:KA:221:ARG:HE	45:KB:322:SER:HB3	1.56	0.69
44:KC:105:ARG:O	44:KC:110:ILE:HG22	1.93	0.69
45:KD:8:GLN:HE22	45:KD:17:GLY:HA3	1.58	0.69
44:KI:298:PRO:HG3	44:KI:308:ARG:HH12	1.56	0.69
45:KJ:67:ASP:HB3	45:KJ:73:MET:SD	2.32	0.69
44:KK:271:SER:O	44:KK:377:MET:HB2	1.92	0.69
44:LA:242:LEU:HD11	44:LA:252:ILE:CD1	2.20	0.69
44:LE:292:THR:HG21	44:LE:331:SER:HB3	1.75	0.69
44:LI:20:CYS:HA	44:LI:232:ALA:CB	2.22	0.69
45:LJ:323:THR:O	45:LJ:326:VAL:HG12	1.92	0.69
45:LN:299:MET:HE2	45:LN:299:MET:HA	1.74	0.69
45:LN:302:ALA:HB3	45:LN:377:MET:CE	2.19	0.69
44:MA:6:SER:O	44:MA:7:ILE:HD13	1.91	0.69
44:MC:237:SER:HA	44:MC:320:ARG:HH11	1.58	0.69
44:MC:245:ASP:OD1	44:MC:246:GLY:N	2.24	0.69
45:MF:293:MET:CE	45:MF:367:PHE:HB3	2.22	0.69
45:MJ:131:GLN:HA	45:MJ:162:ARG:NH1	2.08	0.69
45:MJ:187:LEU:HD22	45:MJ:408:PHE:CE1	2.27	0.69
44:MK:141:VAL:HG21	44:MK:172:TYR:HE1	1.58	0.69
44:MK:153:LEU:O	44:MK:157:LEU:HD23	1.92	0.69
44:NA:237:SER:HA	44:NA:320:ARG:HH11	1.56	0.69
45:NB:139:LEU:HA	45:NB:145:SER:HB3	1.72	0.69
44:NC:129:CYS:HB2	44:NC:132:LEU:HD21	1.74	0.69
45:ND:102:ALA:HB2	45:ND:398:TYR:CD1	2.27	0.69
44:NE:222:PRO:HG2	45:NF:324:LYS:HB2	1.74	0.69
44:NE:259:LEU:HD11	44:NE:316:SER:CB	2.23	0.69
44:NE:328:VAL:HG11	44:NE:353:VAL:HG21	1.75	0.69
44:NG:215:ARG:NH1	44:NG:299:ALA:HB1	2.07	0.69
45:NL:142:GLY:O	45:NL:146:GLY:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:184:ASN:OD1	45:NL:185:ALA:N	2.26	0.69
44:NM:242:LEU:HD21	44:NM:252:ILE:HG13	1.74	0.69
45:OB:242:PHE:HB3	45:OB:356:ILE:HG13	1.74	0.69
44:OC:14:ILE:HD11	44:OC:69:ASP:HB2	1.73	0.69
44:OC:138:PHE:HZ	44:OC:235:ILE:HD12	1.57	0.69
44:OC:414:GLU:OE2	44:OC:415:GLU:HG3	1.93	0.69
44:OE:258:ASN:C	44:OE:259:LEU:HD12	2.13	0.69
44:OE:315:CYS:SG	44:OE:379:SER:HB3	2.32	0.69
44:OG:6:SER:OG	44:OG:65:ALA:HA	1.93	0.69
45:OH:10:GLY:HA2	45:OH:67:ASP:OD1	1.93	0.69
45:OH:170:VAL:HG11	45:OH:377:MET:SD	2.32	0.69
45:OH:290:THR:HA	45:OH:293:MET:HE3	1.72	0.69
45:OL:20:PHE:O	45:OL:24:ILE:HD12	1.93	0.69
44:PC:76:ASP:OD2	45:PD:46:ARG:NH2	2.25	0.69
44:PC:310:GLY:CA	44:PC:383:ALA:HB2	2.22	0.69
44:PC:313:MET:HB3	44:PC:380:ASN:OD1	1.93	0.69
45:PD:5:VAL:CG1	45:PD:159:TYR:HB3	2.23	0.69
44:PE:172:TYR:HB2	44:PE:203:MET:CE	2.22	0.69
44:PG:268:MET:HB2	44:PG:379:SER:C	2.13	0.69
44:PI:10:GLY:O	44:PI:14:ILE:HG13	1.92	0.69
44:PI:261:PRO:HG3	45:PL:394:PHE:CE1	2.26	0.69
44:PI:278:ALA:N	44:PI:369:ALA:HB2	2.08	0.69
45:QB:178:THR:HB	45:QB:181:GLU:CG	2.21	0.69
45:QF:262:ARG:NH1	45:QF:421:GLU:OE1	2.25	0.69
44:QG:132:LEU:CD2	44:QG:164:LYS:HE3	2.22	0.69
44:QI:161:TYR:HB3	44:QI:164:LYS:HG3	1.73	0.69
45:QL:27:GLU:OE2	45:QL:241:ARG:NH1	2.19	0.69
45:QL:309:ARG:NH1	45:QL:342:VAL:HA	2.07	0.69
45:QN:192:LEU:HD21	45:QN:199:CYS:SG	2.33	0.69
45:RD:109:GLY:HA3	45:RD:147:MET:HG3	1.74	0.69
45:RF:372:THR:HA	45:RF:422:TYR:CZ	2.28	0.69
45:RL:167:PHE:HA	45:RL:200:MET:SD	2.33	0.69
45:RL:255:VAL:HA	44:RM:407:TRP:CZ3	2.25	0.69
45:RN:186:THR:HG23	45:RN:415:MET:SD	2.33	0.69
44:SA:174:SER:HB2	44:SA:177:VAL:O	1.92	0.69
44:SA:246:GLY:HA3	44:SA:356:ASN:HA	1.73	0.69
45:SB:134:GLN:HB2	45:SB:167:PHE:CE2	2.28	0.69
45:SB:331:LEU:O	45:SB:334:GLN:HG3	1.92	0.69
45:SB:332:ASN:OD1	45:SB:336:LYS:NZ	2.25	0.69
44:SC:102:ASN:ND2	44:SC:407:TRP:O	2.24	0.69
44:SC:325:PRO:HG3	44:SC:355:ILE:HD12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:46:ARG:HB2	45:SD:241:ARG:O	1.92	0.69
45:SF:105:HIS:O	45:SF:105:HIS:ND1	2.26	0.69
44:SG:285:GLN:O	44:SG:373:ARG:NH2	2.25	0.69
44:SG:401:LYS:O	44:SG:402:ARG:HD3	1.93	0.69
45:SH:130:LEU:CD2	45:SH:162:ARG:HG3	2.20	0.69
45:SJ:266:PHE:CZ	45:SJ:370:ASN:HB2	2.28	0.69
44:SK:326:LYS:CE	45:SL:220:PRO:HD2	2.23	0.69
45:SL:232:ALA:O	45:SL:236:VAL:HG23	1.92	0.69
45:SL:324:LYS:HB2	44:SM:222:PRO:HG2	1.74	0.69
44:SM:288:VAL:HG21	44:SM:323:VAL:CG2	2.23	0.69
44:SM:293:ASN:OD1	44:SM:335:ILE:HD11	1.93	0.69
45:SN:46:ARG:HG2	45:SN:241:ARG:CA	2.22	0.69
45:SN:127:CYS:SG	45:SN:130:LEU:HB2	2.31	0.69
44:TE:271:SER:HB2	44:TE:377:MET:SD	2.32	0.69
45:TF:12:CYS:HB2	48:TF:501:GDP:C8	2.26	0.69
45:TF:312:THR:HG22	45:TF:370:ASN:HB3	1.73	0.69
44:TG:4:VAL:HG23	44:TG:134:GLY:O	1.91	0.69
45:TH:247:ASN:ND2	44:TI:71:GLU:OE1	2.26	0.69
44:TI:5:ILE:HG12	44:TI:132:LEU:HD11	1.74	0.69
44:TI:332:ILE:HG23	44:TI:351:PHE:HD2	1.57	0.69
44:TM:226:ASN:ND2	44:TM:367:ASP:OD2	2.25	0.69
45:UD:21:TRP:CZ3	45:UD:61:PRO:HB3	2.28	0.69
45:UF:159:TYR:HB3	45:UF:162:ARG:HG3	1.73	0.69
45:UJ:36:TYR:CE2	45:UJ:44:LEU:HD11	2.27	0.69
45:UJ:257:LEU:HD11	45:UJ:314:SER:CB	2.20	0.69
45:UJ:322:SER:O	44:UK:221:ARG:NH1	2.25	0.69
45:UL:101:TRP:H	45:UL:398:TYR:HE1	1.39	0.69
45:UL:330:MET:HG3	45:UL:349:ILE:HD12	1.75	0.69
44:VA:91:GLN:HG3	44:VA:92:LEU:HD12	1.73	0.69
44:VA:206:ASN:HA	44:VA:209:ILE:CD1	2.23	0.69
44:VA:252:ILE:HA	44:VA:255:PHE:CD2	2.27	0.69
45:VB:184:ASN:HA	45:VB:187:LEU:HB2	1.75	0.69
44:VE:413:MET:HA	44:VE:413:MET:CE	2.23	0.69
45:VF:173:PRO:CG	45:VF:380:ARG:HD3	2.15	0.69
44:VG:407:TRP:HZ2	45:VH:258:ILE:HD11	1.56	0.69
45:VH:63:ALA:O	45:VH:64:ILE:HD13	1.92	0.69
45:VH:372:THR:HA	45:VH:422:TYR:CE2	2.27	0.69
44:VM:384:ILE:O	44:VM:387:VAL:HG22	1.91	0.69
44:WE:100:ALA:HA	45:WF:252:LYS:HD2	1.73	0.69
45:WF:1:MET:O	45:WF:2:ARG:HG2	1.91	0.69
45:WF:256:ASN:O	45:WF:256:ASN:OD1	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:240:ALA:HB2	44:WG:320:ARG:NH2	2.08	0.69
44:WK:88:HIS:HB3	44:WK:91:GLN:CG	2.23	0.69
44:WM:223:THR:HG22	44:WM:226:ASN:OD1	1.91	0.69
22:1L:668:GLN:NE2	44:CE:367:ASP:OD1	2.23	0.69
15:1V:96:ASN:HB2	45:LJ:262:ARG:HG2	1.73	0.69
2:2A:150:LEU:HD12	35:5R:86:LEU:HD12	1.75	0.69
28:2C:232:PHE:CZ	45:JJ:53:GLU:HB2	2.27	0.69
16:2X:3:ARG:NH2	44:MI:247:ALA:O	2.25	0.69
16:3X:78:ASN:HD22	45:MN:279:GLN:HB3	1.58	0.69
37:5A:75:TYR:CD2	45:NB:357:PRO:HG3	2.28	0.69
37:5C:122:ASN:O	45:NL:223:GLY:HA3	1.92	0.69
37:5D:107:TYR:OH	44:NM:219:ILE:HD11	1.92	0.69
38:5H:33:TYR:OH	44:NK:89:PRO:HG2	1.92	0.69
11:6Q:179:PRO:HA	11:6Q:182:LYS:CE	2.21	0.69
45:AB:222:TYR:O	45:AB:226:ASN:N	2.24	0.69
44:AC:88:HIS:O	44:AC:91:GLN:HG2	1.92	0.69
44:AC:317:MET:HE1	44:AC:351:PHE:HE2	1.58	0.69
45:AH:47:ILE:HG12	45:AH:51:TYR:HB2	1.73	0.69
44:AM:168:GLY:O	44:AM:201:ALA:HA	1.92	0.69
44:BG:241:SER:HA	44:BG:356:ASN:ND2	2.06	0.69
44:BG:259:LEU:O	44:BG:380:ASN:ND2	2.25	0.69
44:BI:242:LEU:HD11	44:BI:252:ILE:CG1	2.22	0.69
45:BJ:345:ILE:O	45:BJ:345:ILE:HG23	1.90	0.69
44:CA:250:VAL:HG13	44:CA:254:GLU:HB2	1.74	0.69
44:CA:352:LYS:HA	45:CB:177:ASP:O	1.93	0.69
45:CF:244:GLY:HA2	45:CF:355:ASP:OD2	1.92	0.69
45:CH:152:ILE:HG23	45:CH:164:MET:CE	2.23	0.69
45:CJ:7:ILE:HB	45:CJ:135:ILE:CD1	2.23	0.69
45:CL:398:TYR:O	45:CL:403:MET:HB2	1.92	0.69
45:CN:73:MET:HE1	45:CN:92:PHE:HB3	1.75	0.69
44:DA:265:ILE:HG23	44:DA:432:TYR:HE1	1.57	0.69
45:DB:86:ARG:HH21	45:DB:87:PRO:CG	2.04	0.69
44:DE:140:SER:OG	46:DE:501:GTP:O2B	2.04	0.69
44:DE:271:SER:HA	44:DE:302:MET:HG2	1.74	0.69
45:DF:318:ARG:NH1	45:DF:358:PRO:HG3	2.08	0.69
44:DG:91:GLN:HG3	44:DG:92:LEU:HD22	1.73	0.69
45:DH:44:LEU:HD23	45:DH:47:ILE:HD11	1.74	0.69
44:DI:425:LEU:O	44:DI:429:GLU:HG3	1.93	0.69
45:DJ:156:ARG:NH2	45:DJ:159:TYR:O	2.25	0.69
45:DJ:204:ASN:OD1	48:DJ:501:GDP:O2'	2.10	0.69
45:DJ:318:ARG:HD3	45:DJ:358:PRO:CD	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:42:LEU:HG	45:DL:45:GLU:OE2	1.92	0.69
44:EC:103:PHE:HB2	44:EC:186:ASN:HB3	1.73	0.69
44:EI:205:ASP:OD1	44:EI:303:ALA:HA	1.91	0.69
45:EJ:324:LYS:HD3	44:EK:222:PRO:CD	2.23	0.69
45:EL:92:PHE:O	45:EL:112:LEU:HD11	1.93	0.69
44:FA:385:ALA:HA	44:FA:388:PHE:HB2	1.74	0.69
45:FB:286:VAL:CG1	45:FB:325:GLU:HG2	2.22	0.69
44:FE:100:ALA:O	45:FF:255:VAL:HG21	1.91	0.69
44:FE:340:THR:HG23	44:FE:341:ILE:HG12	1.75	0.69
44:FG:278:ALA:N	44:FG:369:ALA:HB2	2.07	0.69
44:FI:54:SER:OG	44:FI:62:VAL:HB	1.92	0.69
45:FJ:16:ILE:HD11	45:FJ:229:VAL:CG1	2.21	0.69
45:FJ:202:ILE:HD11	45:FJ:268:ILE:HD11	1.73	0.69
45:FJ:269:GLY:HA2	45:FJ:300:MET:CE	2.22	0.69
44:FK:231:ILE:O	44:FK:235:ILE:HG12	1.93	0.69
44:GA:170:THR:O	44:GA:204:LEU:HB2	1.92	0.69
45:GB:135:ILE:HG12	45:GB:164:MET:HE1	1.75	0.69
44:GC:385:ALA:HA	44:GC:388:PHE:CD2	2.26	0.69
45:GF:63:ALA:O	45:GF:89:ASN:ND2	2.19	0.69
45:GF:118:ASP:O	45:GF:121:ARG:HD3	1.92	0.69
45:GF:177:ASP:N	45:GF:181:GLU:OE2	2.17	0.69
45:GH:113:ILE:HA	45:GH:116:VAL:HG12	1.73	0.69
44:GI:29:GLY:O	44:GI:30:ILE:HD13	1.93	0.69
45:GJ:269:GLY:HA2	45:GJ:300:MET:CE	2.23	0.69
45:GL:267:MET:SD	45:GL:299:MET:HE3	2.33	0.69
45:GL:323:THR:O	45:GL:326:VAL:HG12	1.93	0.69
44:GM:161:TYR:HB3	44:GM:164:LYS:CG	2.23	0.69
45:HB:234:SER:O	45:HB:238:CYS:N	2.25	0.69
45:HF:420:SER:O	45:HF:423:GLN:HG3	1.92	0.69
44:HI:222:PRO:CG	45:HJ:324:LYS:HD3	2.22	0.69
44:HI:372:MET:C	44:HI:373:ARG:HD3	2.12	0.69
44:HK:115:VAL:HG22	44:HK:119:LEU:HD23	1.73	0.69
45:HL:172:SER:OG	45:HL:175:VAL:HG22	1.92	0.69
45:HN:135:ILE:HG22	45:HN:137:HIS:ND1	2.08	0.69
45:HN:286:VAL:HB	45:HN:287:PRO:HD3	1.75	0.69
44:IA:271:SER:HA	44:IA:302:MET:HG3	1.73	0.69
44:IA:325:PRO:HG3	44:IA:355:ILE:HD13	1.75	0.69
45:IB:86:ARG:NE	45:IB:87:PRO:HD2	2.07	0.69
45:IF:42:LEU:HA	45:IF:45:GLU:OE1	1.93	0.69
44:IG:260:VAL:HG13	44:IG:265:ILE:O	1.93	0.69
45:IJ:50:TYR:OH	45:IJ:134:GLN:OE1	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:210:TYR:HB3	45:IN:324:LYS:HZ3	1.58	0.69
45:IN:187:LEU:HD11	45:IN:408:PHE:CE1	2.28	0.69
44:JA:356:ASN:OD1	44:JA:357:TYR:N	2.25	0.69
44:JE:23:LEU:HD13	44:JE:363:VAL:HG13	1.75	0.69
44:JE:269:LEU:HD22	44:JE:303:ALA:HB3	1.75	0.69
44:JK:175:PRO:HG2	44:JK:304:LYS:HG2	1.75	0.69
44:KG:202:VAL:HA	44:KG:268:MET:O	1.93	0.69
44:KG:258:ASN:O	44:KG:259:LEU:HD22	1.93	0.69
45:KJ:72:THR:O	45:KJ:75:SER:OG	2.05	0.69
45:KN:186:THR:CA	45:KN:189:VAL:HB	2.19	0.69
45:KN:340:TYR:HB2	45:KN:341:PHE:CE2	2.28	0.69
44:LA:216:ASN:HB3	44:LA:275:ILE:O	1.92	0.69
45:LB:268:ILE:HA	45:LB:367:PHE:O	1.93	0.69
44:LC:211:ASP:OD1	44:LC:214:ARG:NH2	2.25	0.69
44:LG:1:MET:HG3	44:LG:130:THR:OG1	1.92	0.69
45:LJ:7:ILE:HD12	45:LJ:151:LEU:HD21	1.74	0.69
45:MD:330:MET:HE2	45:MD:349:ILE:HG21	1.73	0.69
44:MG:276:ILE:CD1	44:MG:281:ALA:HA	2.23	0.69
45:MH:247:ASN:O	45:MH:252:LYS:NZ	2.20	0.69
44:MK:143:GLY:HA3	46:MK:501:GTP:O2B	1.92	0.69
44:MK:247:ALA:HB3	44:MK:355:ILE:HD11	1.75	0.69
45:ML:99:ASN:HA	45:ML:142:GLY:CA	2.23	0.69
44:MM:178:SER:OG	45:MN:347:ASN:HB3	1.92	0.69
44:MM:247:ALA:H	44:MM:355:ILE:HG22	1.58	0.69
45:MN:20:PHE:O	45:MN:24:ILE:HG12	1.92	0.69
44:NA:98:ASP:OD1	44:NA:99:ALA:N	2.24	0.69
44:NC:115:VAL:HG22	44:NC:119:LEU:HD23	1.73	0.69
44:NC:306:ASP:OD2	44:NC:308:ARG:NH2	2.25	0.69
45:NF:22:GLU:HG2	45:NF:81:PHE:CE2	2.27	0.69
44:NI:271:SER:HB2	44:NI:377:MET:HE2	1.75	0.69
44:NK:222:PRO:HD2	45:NL:324:LYS:CD	2.22	0.69
45:NN:324:LYS:O	45:NN:328:GLU:HG2	1.93	0.69
45:OD:63:ALA:O	45:OD:89:ASN:ND2	2.23	0.69
45:OD:130:LEU:HD11	45:OD:133:PHE:CE1	2.27	0.69
45:OD:221:THR:O	45:OD:224:ASP:N	2.24	0.69
44:OG:286:LEU:N	44:OG:290:GLU:OE2	2.24	0.69
44:OI:265:ILE:HG12	44:OI:432:TYR:CE1	2.28	0.69
44:OK:258:ASN:HD21	44:OK:352:LYS:HE2	1.58	0.69
45:OL:86:ARG:HD3	45:PL:281:TYR:HB3	1.74	0.69
45:ON:73:MET:HE1	45:ON:92:PHE:HB3	1.73	0.69
44:PA:169:PHE:HD2	44:PA:204:LEU:HD11	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PJ:99:ASN:CA	45:PJ:142:GLY:HA3	2.22	0.69
44:QA:265:ILE:HG23	44:QA:432:TYR:CE1	2.26	0.69
44:QA:289:ALA:O	44:QA:293:ASN:ND2	2.25	0.69
44:QA:352:LYS:CD	45:QB:178:THR:HA	2.22	0.69
45:QD:255:VAL:HG21	44:QE:100:ALA:HB1	1.74	0.69
45:QH:266:PHE:CD1	45:QH:370:ASN:HB2	2.24	0.69
45:QJ:72:THR:OG1	45:QJ:73:MET:O	2.09	0.69
45:QL:190:HIS:O	45:QL:193:VAL:HG12	1.93	0.69
44:QM:36:MET:SD	44:QM:38:SER:N	2.66	0.69
44:QM:67:PHE:O	44:QM:93:ILE:HG22	1.92	0.69
44:QM:246:GLY:HA2	44:QM:357:TYR:CE2	2.28	0.69
45:QN:135:ILE:N	45:QN:165:GLU:O	2.26	0.69
44:RC:154:LEU:HA	44:RC:157:LEU:HD21	1.75	0.69
44:RE:313:MET:HE1	44:RE:344:VAL:HG11	1.74	0.69
44:RM:349:THR:HG23	45:RN:179:VAL:HA	1.74	0.69
44:SA:191:THR:HA	44:SA:194:LEU:HG	1.75	0.69
45:SD:161:ASP:OD1	45:SD:162:ARG:N	2.25	0.69
44:SG:10:GLY:O	44:SG:14:ILE:N	2.23	0.69
44:SM:161:TYR:HB3	44:SM:164:LYS:CG	2.23	0.69
45:SN:15:GLN:O	45:SN:226:ASN:ND2	2.26	0.69
45:SN:229:VAL:HG12	45:SN:233:MET:HE2	1.74	0.69
44:TG:287:SER:O	44:TG:291:ILE:HG23	1.93	0.69
45:TL:42:LEU:HD22	45:TL:242:PHE:CZ	2.27	0.69
44:TM:70:LEU:HD11	44:TM:149:LEU:HD21	1.73	0.69
44:UA:302:MET:HE3	44:UA:302:MET:HA	1.74	0.69
44:UC:7:ILE:HG23	44:UC:66:VAL:HG13	1.74	0.69
44:UG:174:SER:HB2	44:UG:177:VAL:O	1.91	0.69
44:UG:213:CYS:O	44:UG:217:LEU:HB2	1.93	0.69
44:UK:98:ASP:OD1	44:UK:99:ALA:N	2.25	0.69
44:UK:186:ASN:OD1	44:UK:187:SER:N	2.26	0.69
44:UM:291:ILE:HD12	44:UM:375:VAL:CG1	2.22	0.69
45:UN:68:LEU:HG	45:UN:96:GLY:H	1.57	0.69
45:UN:132:GLY:HA3	45:UN:163:ILE:CG1	2.23	0.69
45:UN:205:GLU:HA	45:UN:208:TYR:HD2	1.57	0.69
44:VA:288:VAL:CG2	44:VA:327:ASP:HB3	2.21	0.69
45:VD:4:ILE:HG23	45:VD:131:GLN:HB3	1.74	0.69
44:VE:11:GLN:HE22	45:VF:247:ASN:H	1.39	0.69
45:VH:26:ASP:HB3	45:VH:359:LYS:HE2	1.74	0.69
45:VJ:178:THR:CG2	45:VJ:180:VAL:HG12	2.21	0.69
45:VL:101:TRP:CE3	45:VL:187:LEU:HD13	2.28	0.69
44:VM:88:HIS:HB3	44:VM:91:GLN:HG2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:183:TYR:CE2	45:VN:394:PHE:HB2	2.27	0.69
45:WD:207:LEU:CD1	45:WD:228:LEU:HD12	2.22	0.69
44:WG:141:VAL:HG11	44:WG:172:TYR:CD1	2.28	0.69
44:WM:71:GLU:OE1	44:WM:73:THR:HB	1.92	0.69
44:WM:88:HIS:HB3	44:WM:91:GLN:CG	2.23	0.69
45:WN:299:MET:CG	45:WN:305:PRO:HG3	2.21	0.69
15:0V:69:SER:CB	45:MN:336:LYS:HB3	2.23	0.69
16:1X:70:TYR:CE1	45:MF:362:LYS:HE3	2.27	0.69
35:4R:318:TYR:HE1	45:CF:273:LEU:HA	1.54	0.69
37:5B:79:LEU:HD21	45:NF:245:GLN:OE1	1.93	0.69
37:5D:39:ARG:HD2	44:KK:260:VAL:HG22	1.74	0.69
38:5G:140:ASN:ND2	45:OL:361:LEU:HD23	2.07	0.69
35:5R:242:ASN:CB	44:BI:57:GLY:HA3	2.23	0.69
11:6Q:179:PRO:CA	11:6Q:182:LYS:HE2	2.18	0.69
35:6R:389:ASN:N	45:EN:276:ARG:NH1	2.40	0.69
35:6R:401:VAL:CG2	45:EN:277:GLY:N	2.56	0.69
35:7R:175:GLU:OE1	45:AD:31:ASP:HB3	1.93	0.69
44:AA:271:SER:N	44:AA:295:ALA:HB1	2.07	0.69
45:AB:97:ALA:HB3	45:AB:143:THR:HB	1.74	0.69
45:AB:133:PHE:O	45:AB:164:MET:HE3	1.93	0.69
44:AC:322:ASP:OD1	44:AC:373:ARG:NH1	2.25	0.69
44:AG:89:PRO:HG2	44:BG:280:LYS:HE2	1.74	0.69
45:AH:172:SER:OG	45:AH:205:GLU:OE1	2.11	0.69
44:AI:88:HIS:CE1	44:AI:90:GLU:HG2	2.27	0.69
44:AI:174:SER:HB2	44:AI:177:VAL:O	1.91	0.69
45:AL:286:VAL:CB	45:AL:325:GLU:HG2	2.23	0.69
44:BA:231:ILE:O	44:BA:235:ILE:HD12	1.91	0.69
44:BA:254:GLU:CG	45:BD:98:GLY:HA2	2.23	0.69
45:BF:201:VAL:HG23	45:BF:301:CYS:SG	2.32	0.69
44:BI:292:THR:HG21	44:BI:331:SER:HB3	1.73	0.69
44:BM:203:MET:HG3	44:BM:384:ILE:HD11	1.74	0.69
45:CB:114:ASP:HA	45:CB:117:LEU:HB3	1.75	0.69
45:CB:203:ASP:OD2	45:CB:302:ALA:N	2.24	0.69
45:CB:347:ASN:O	44:CC:181:VAL:HG12	1.93	0.69
44:CE:166:LYS:NZ	44:CE:198:THR:HA	2.08	0.69
44:CG:1:MET:HE1	45:CH:94:GLN:HG2	1.74	0.69
45:CJ:19:LYS:HD2	45:CJ:227:HIS:CD2	2.28	0.69
44:CK:183:GLU:HG2	44:CK:184:PRO:HD3	1.75	0.69
44:DA:357:TYR:HB2	44:DA:358:GLN:NE2	2.07	0.69
44:DE:200:VAL:CG2	44:DE:256:GLN:HB3	2.22	0.69
44:DE:212:ILE:HD11	44:DE:300:ASN:HA	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:133:PHE:HB2	45:DJ:164:MET:SD	2.33	0.69
44:EA:273:ALA:HB1	44:EA:274:PRO:HA	1.75	0.69
44:EE:296:PHE:HE2	44:EE:335:ILE:HG21	1.56	0.69
45:EH:202:ILE:HD11	45:EH:300:MET:CB	2.22	0.69
45:EJ:42:LEU:HD22	45:EJ:356:ILE:HD11	1.72	0.69
44:EM:272:TYR:CD1	44:EM:376:CYS:HB2	2.28	0.69
45:EN:169:VAL:HG22	45:EN:202:ILE:CB	2.18	0.69
45:EN:394:PHE:HB3	45:EN:397:TRP:CE2	2.27	0.69
44:FA:386:GLU:O	44:FA:390:ARG:N	2.20	0.69
44:FC:93:ILE:HD13	44:FC:117:LEU:HB3	1.75	0.69
45:FD:133:PHE:HB2	45:FD:164:MET:HE3	1.73	0.69
44:FG:240:ALA:HB2	44:FG:320:ARG:HH21	1.56	0.69
45:FL:2:ARG:NH1	45:FL:240:LEU:O	2.23	0.69
44:FM:434:GLU:O	44:FM:437:ILE:HG12	1.93	0.69
45:FN:92:PHE:O	45:FN:94:GLN:NE2	2.25	0.69
44:GA:51:THR:HG22	44:GA:52:PHE:CD1	2.27	0.69
44:GA:348:PRO:HD3	45:GD:388:MET:HE1	1.75	0.69
45:GD:304:ASP:HB2	45:GD:307:HIS:ND1	2.07	0.69
44:GE:261:PRO:HG2	44:GE:313:MET:SD	2.33	0.69
45:GH:178:THR:CG2	45:GH:180:VAL:HG12	2.23	0.69
45:GH:199:CYS:O	45:GH:265:PHE:HA	1.92	0.69
45:GH:207:LEU:HB3	45:GH:225:LEU:CD1	2.23	0.69
44:GI:200:VAL:HG13	44:GI:268:MET:SD	2.33	0.69
44:GK:2:ARG:NH2	45:GN:70:PRO:HD2	2.07	0.69
44:GK:71:GLU:HG3	45:GL:247:ASN:ND2	2.07	0.69
44:GK:100:ALA:HA	45:GL:252:LYS:CE	2.23	0.69
44:HE:284:GLU:HG3	44:HE:286:LEU:CD2	2.22	0.69
44:HI:155:GLU:HG2	44:HI:197:HIS:CD2	2.28	0.69
44:HK:288:VAL:CG2	44:HK:327:ASP:HB3	2.22	0.69
44:HM:68:LEU:HD21	44:HM:118:CYS:SG	2.31	0.69
45:HN:286:VAL:HB	45:HN:287:PRO:CD	2.22	0.69
45:HN:372:THR:HA	45:HN:422:TYR:CE2	2.28	0.69
44:IA:214:ARG:HG3	44:IA:219:ILE:O	1.93	0.69
45:IB:286:VAL:O	45:IB:290:THR:N	2.21	0.69
45:IB:344:TRP:CZ3	45:IB:345:ILE:HB	2.27	0.69
45:IB:389:PHE:O	45:IB:392:LYS:HD2	1.93	0.69
44:IC:288:VAL:HG21	44:IC:327:ASP:HB3	1.74	0.69
44:IE:326:LYS:HZ3	45:IH:220:PRO:HG2	1.57	0.69
44:II:317:MET:HE2	44:II:319:TYR:CE2	2.28	0.69
44:II:434:GLU:O	44:II:437:ILE:HG12	1.93	0.69
45:IJ:1:MET:C	45:IJ:2:ARG:HD3	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:240:ALA:CB	44:IK:320:ARG:HD2	2.23	0.69
44:IM:323:VAL:HB	44:IM:373:ARG:HD2	1.75	0.69
44:JG:177:VAL:HG23	45:JH:331:LEU:HD11	1.75	0.69
44:JM:102:ASN:HD22	44:JM:105:ARG:HG3	1.57	0.69
44:KK:196:GLU:HG2	44:KK:197:HIS:CD2	2.27	0.69
44:KK:209:ILE:HG22	44:KK:227:LEU:HD22	1.74	0.69
44:LA:185:TYR:O	44:LA:189:LEU:HD23	1.91	0.69
44:LE:119:LEU:HD11	44:LE:156:ARG:HG2	1.74	0.69
44:LI:99:ALA:CB	44:LI:145:THR:HB	2.23	0.69
45:MB:30:ILE:HD12	45:MB:59:TYR:HD2	1.56	0.69
45:MD:318:ARG:CG	45:MD:358:PRO:HD3	2.22	0.69
44:MG:179:THR:HG23	45:MH:351:SER:OG	1.92	0.69
44:MG:403:ALA:HA	45:MH:260:PHE:CE1	2.28	0.69
45:MH:420:SER:O	45:MH:423:GLN:HG3	1.93	0.69
44:MI:254:GLU:OE2	45:ML:98:GLY:HA3	1.92	0.69
44:MI:277:SER:O	44:MI:281:ALA:N	2.26	0.69
44:MK:287:SER:O	44:MK:291:ILE:HG23	1.93	0.69
44:MM:207:GLU:CG	44:MM:304:LYS:HZ2	2.06	0.69
45:MN:68:LEU:HD23	45:MN:143:THR:OG1	1.93	0.69
44:NA:404:PHE:CZ	45:NB:259:PRO:HA	2.28	0.69
45:NB:69:GLU:OE2	45:NB:72:THR:HG23	1.93	0.69
45:NB:87:PRO:HA	45:NB:90:PHE:CD2	2.26	0.69
44:NC:226:ASN:ND2	44:NC:367:ASP:OD2	2.22	0.69
44:NC:275:ILE:HG23	44:NC:368:LEU:HD11	1.74	0.69
44:NI:69:ASP:OD2	44:NI:71:GLU:N	2.22	0.69
45:NJ:4:ILE:O	45:NJ:62:ARG:HD2	1.92	0.69
44:NK:285:GLN:HE22	44:NK:287:SER:HB2	1.58	0.69
44:NK:414:GLU:OE2	44:NK:417:GLU:N	2.26	0.69
45:NL:242:PHE:CE2	45:NL:356:ILE:HG21	2.27	0.69
45:NN:5:VAL:HA	45:NN:62:ARG:HD3	1.74	0.69
44:OA:99:ALA:HA	44:OA:105:ARG:HD3	1.74	0.69
45:OB:268:ILE:HG13	45:OB:300:MET:CE	2.23	0.69
44:OC:407:TRP:HH2	45:OD:254:ALA:HB1	1.58	0.69
45:OF:161:ASP:C	45:OF:162:ARG:HD2	2.13	0.69
44:OK:141:VAL:CG2	44:OK:187:SER:HA	2.22	0.69
44:OK:345:ASP:HB2	44:OK:438:GLU:HG3	1.74	0.69
45:OL:45:GLU:OE1	45:OL:46:ARG:NH1	2.26	0.69
44:OM:189:LEU:HD11	44:OM:418:PHE:CE1	2.28	0.69
44:OM:296:PHE:CZ	44:OM:335:ILE:HG21	2.28	0.69
45:PB:199:CYS:O	45:PB:265:PHE:HA	1.92	0.69
44:PE:31:GLN:HG3	44:PE:32:PRO:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:7:ILE:HB	45:PF:135:ILE:CD1	2.21	0.69
44:PM:268:MET:HE2	44:PM:378:ILE:HG23	1.74	0.69
45:PN:318:ARG:NH1	45:PN:358:PRO:HG3	2.07	0.69
45:QB:25:SER:O	45:QB:29:GLY:N	2.26	0.69
44:QE:20:CYS:HG	44:QE:21:TRP:HD1	1.41	0.69
44:QE:141:VAL:HG22	44:QE:187:SER:HA	1.72	0.69
45:QF:303:ALA:HB2	45:QF:377:MET:HE1	1.74	0.69
44:QG:145:THR:N	46:QG:501:GTP:O2G	2.25	0.69
44:QG:239:THR:O	44:QG:243:ARG:NE	2.26	0.69
45:QJ:201:VAL:HG23	45:QJ:301:CYS:SG	2.32	0.69
44:QM:170:THR:N	44:QM:202:VAL:O	2.25	0.69
45:QN:67:ASP:OD1	45:QN:69:GLU:N	2.21	0.69
44:RA:103:PHE:CD2	44:RA:186:ASN:HB2	2.28	0.69
45:RB:248:SER:CA	45:RB:252:LYS:HD2	2.22	0.69
44:RC:185:TYR:HE2	44:RC:405:VAL:HG22	1.58	0.69
45:RF:255:VAL:HA	44:RG:407:TRP:CZ3	2.27	0.69
44:RG:141:VAL:HG22	44:RG:187:SER:HA	1.75	0.69
44:RI:326:LYS:HB2	45:RJ:212:PHE:HZ	1.56	0.69
45:RJ:210:ILE:CD1	45:RJ:300:MET:HG2	2.21	0.69
45:RL:131:GLN:O	45:RL:163:ILE:HG12	1.93	0.69
45:RL:138:SER:HB2	45:RL:169:VAL:HB	1.74	0.69
45:RL:268:ILE:HG13	45:RL:300:MET:CE	2.23	0.69
44:RM:141:VAL:CG2	44:RM:187:SER:HA	2.16	0.69
45:RN:330:MET:SD	45:RN:351:SER:OG	2.47	0.69
44:SA:119:LEU:HD21	44:SA:156:ARG:HD3	1.75	0.69
44:SA:155:GLU:HG2	44:SA:197:HIS:CD2	2.27	0.69
45:SB:341:PHE:HD2	45:SB:348:ASN:HD21	1.39	0.69
45:SD:102:ALA:HB2	45:SD:403:MET:HE2	1.73	0.69
44:SE:268:MET:CE	44:SE:378:ILE:HG22	2.23	0.69
44:SM:75:ILE:HG23	44:SM:78:VAL:CB	2.21	0.69
45:SN:237:THR:HG23	45:SN:241:ARG:NE	2.07	0.69
44:TA:205:ASP:OD2	44:TA:304:LYS:N	2.25	0.69
45:TD:206:ALA:HA	45:TD:209:ASP:CB	2.22	0.69
44:TG:56:THR:HG23	44:TG:58:ALA:H	1.57	0.69
45:TH:323:THR:HG21	44:TI:224:TYR:CE2	2.27	0.69
44:TI:174:SER:HB3	44:TI:207:GLU:HG3	1.75	0.69
44:TI:325:PRO:O	44:TI:328:VAL:N	2.26	0.69
44:TK:103:PHE:HB2	44:TK:186:ASN:CB	2.22	0.69
44:TK:292:THR:HG21	44:TK:331:SER:HB3	1.73	0.69
45:TL:325:GLU:HB3	44:TM:221:ARG:NH1	2.08	0.69
45:TL:327:ASP:OD1	45:TL:328:GLU:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:248:LEU:HB3	44:TM:355:ILE:H	1.57	0.69
44:TM:260:VAL:HG23	44:TM:265:ILE:O	1.93	0.69
44:TM:317:MET:HE3	44:TM:375:VAL:HG22	1.74	0.69
44:TM:409:VAL:HA	44:TM:413:MET:O	1.92	0.69
45:UD:11:GLN:HA	45:UD:14:ASN:HD22	1.55	0.69
44:UE:401:LYS:O	44:UE:402:ARG:HG2	1.92	0.69
45:UJ:97:ALA:HB3	45:UJ:143:THR:HB	1.73	0.69
44:VA:112:LYS:O	44:VA:115:VAL:HG12	1.91	0.69
45:VB:200:MET:HE3	45:VB:268:ILE:HG12	1.74	0.69
44:VC:22:GLU:HG3	44:VC:83:TYR:OH	1.91	0.69
45:VD:213:ARG:HE	45:VD:297:LYS:HD2	1.57	0.69
45:VF:342:VAL:HG22	45:VF:345:ILE:CG2	2.22	0.69
45:VF:376:GLU:HG3	45:VF:380:ARG:HH21	1.57	0.69
44:VK:319:TYR:HB2	44:VK:354:GLY:O	1.92	0.69
45:VL:16:ILE:HD13	45:VL:226:ASN:OD1	1.93	0.69
44:WA:173:PRO:HG2	44:WA:391:LEU:HD11	1.73	0.69
44:WA:230:LEU:HD21	44:WA:368:LEU:HD21	1.74	0.69
45:WB:210:ILE:O	45:WB:214:THR:OG1	2.09	0.69
45:WB:381:VAL:O	45:WB:385:PHE:N	2.19	0.69
45:WD:112:LEU:O	45:WD:112:LEU:HD23	1.93	0.69
44:WE:91:GLN:O	44:WE:93:ILE:HD12	1.93	0.69
44:WG:84:ARG:HG3	44:WG:85:GLN:HE22	1.57	0.69
44:WM:181:VAL:HG12	45:WN:347:ASN:O	1.93	0.69
44:WM:317:MET:HE2	44:WM:375:VAL:HG22	1.73	0.69
2:0A:51:LYS:NZ	45:MB:41:ASP:OD2	2.25	0.69
2:0A:128:HIS:CE1	45:AB:360:GLY:H	2.10	0.69
14:0U:236:LEU:HD21	45:WB:33:THR:HG22	1.72	0.69
18:1F:45:VAL:HG13	44:GK:85:GLN:HG3	1.75	0.69
8:1G:164:PRO:HB2	45:KD:74:ASP:HB3	1.74	0.69
20:1J:145:ILE:HD12	44:IE:324:VAL:HG23	1.74	0.69
20:1J:250:LEU:HD23	44:II:280:LYS:HG3	1.73	0.69
22:1L:285:ARG:CG	45:BH:362:LYS:HE2	2.23	0.69
22:1L:525:LEU:HD13	45:BF:320:ARG:CB	2.13	0.69
10:1N:156:HIS:ND1	45:KJ:26:ASP:OD2	2.26	0.69
10:1N:251:ALA:HB2	44:KG:46:ASP:OD2	1.93	0.69
5:2D:94:ASN:CB	44:EK:364:PRO:HG3	2.21	0.69
22:2L:545:GLU:OE1	44:BM:279:GLU:HG2	1.93	0.69
24:2O:141:LYS:HG2	44:VK:372:MET:HE2	1.75	0.69
26:2R:283:ARG:HH22	44:CG:46:ASP:H	1.37	0.69
22:3L:42:LYS:HD2	45:BB:320:ARG:HH22	1.56	0.69
28:4C:223:GLN:OE1	44:KM:219:ILE:HD13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5C:126:ILE:HD12	45:NL:228:LEU:HD21	1.74	0.69
37:5D:56:ILE:HD13	45:KN:391:ARG:HD3	1.74	0.69
37:5D:107:TYR:CA	44:NM:277:SER:HB2	2.21	0.69
38:5G:214:LEU:HD21	44:LK:437:ILE:CD1	2.17	0.69
35:5R:9:VAL:HG11	35:5R:15:HIS:HB3	1.75	0.69
35:5R:552:LEU:O	35:5R:556:ILE:HD12	1.92	0.69
35:6R:593:ASP:OD1	35:6R:598:TRP:N	2.24	0.69
45:AB:216:LYS:HG3	45:AB:275:SER:HB3	1.75	0.69
44:AC:210:TYR:CE1	44:AC:227:LEU:HD21	2.28	0.69
45:AD:222:TYR:HB3	48:AD:501:GDP:O6	1.93	0.69
45:AF:220:PRO:HA	45:AF:224:ASP:OD2	1.93	0.69
44:AM:71:GLU:OE1	44:AM:73:THR:N	2.22	0.69
44:BA:7:ILE:HD12	44:BA:66:VAL:HG12	1.73	0.69
44:BA:90:GLU:OE1	44:CA:280:LYS:NZ	2.18	0.69
44:BC:89:PRO:HB2	44:CC:280:LYS:HD2	1.75	0.69
45:BF:156:ARG:HG3	45:BF:195:ASN:HB3	1.75	0.69
45:BF:207:LEU:HB3	45:BF:225:LEU:HD22	1.73	0.69
44:BI:296:PHE:CE1	44:BI:335:ILE:HG21	2.27	0.69
44:BK:352:LYS:NZ	45:BN:178:THR:HG22	2.08	0.69
44:BM:195:LEU:HD21	44:BM:264:ARG:NH2	2.08	0.69
44:BM:387:VAL:HA	44:BM:390:ARG:HG2	1.75	0.69
45:BN:1:MET:O	45:BN:2:ARG:HG2	1.93	0.69
45:BN:186:THR:HG21	45:BN:385:PHE:CD1	2.27	0.69
44:CC:216:ASN:HB3	44:CC:275:ILE:O	1.93	0.69
45:CD:262:ARG:NH2	45:CD:421:GLU:HB3	2.06	0.69
45:CD:324:LYS:HD3	44:CE:222:PRO:HD2	1.74	0.69
45:CF:121:ARG:NH2	45:CF:158:GLU:OE2	2.23	0.69
44:CG:80:THR:HA	44:CG:84:ARG:HH12	1.57	0.69
44:CG:141:VAL:CG1	44:CG:172:TYR:HA	2.22	0.69
44:CG:203:MET:HG3	44:CG:384:ILE:HD11	1.74	0.69
45:CH:116:VAL:O	45:CH:120:VAL:HG23	1.93	0.69
44:CI:326:LYS:HG2	45:CJ:220:PRO:HD2	1.75	0.69
44:CK:288:VAL:CG1	44:CK:327:ASP:HB3	2.23	0.69
45:CL:101:TRP:CE2	45:CL:187:LEU:HB3	2.28	0.69
45:CL:186:THR:HG22	45:CL:415:MET:CE	2.23	0.69
45:CL:318:ARG:CD	45:CL:358:PRO:HD3	2.23	0.69
44:CM:145:THR:OG1	46:CM:501:GTP:O3B	2.09	0.69
44:CM:276:ILE:CG2	44:CM:281:ALA:HB2	2.21	0.69
44:DA:63:PRO:HG3	44:DA:86:LEU:HG	1.75	0.69
44:DA:385:ALA:HA	44:DA:388:PHE:HD2	1.57	0.69
45:DB:313:ALA:HA	45:DB:369:GLY:HA2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:135:PHE:O	44:DC:136:LEU:HD23	1.93	0.69
44:DC:138:PHE:HZ	44:DC:235:ILE:HD11	1.58	0.69
44:DC:214:ARG:NH1	44:DC:220:GLU:HA	2.08	0.69
44:DC:229:ARG:HH12	44:DC:363:VAL:HG21	1.57	0.69
44:DC:296:PHE:CE2	44:DC:335:ILE:HG21	2.27	0.69
44:DE:220:GLU:O	44:DE:221:ARG:HD2	1.93	0.69
45:DH:252:LYS:HG3	44:DI:101:ASN:OD1	1.92	0.69
44:DI:4:VAL:HG23	44:DI:134:GLY:O	1.92	0.69
44:DI:189:LEU:HD11	44:DI:418:PHE:CE2	2.27	0.69
45:DJ:43:GLN:O	45:DJ:47:ILE:HD11	1.92	0.69
44:EA:434:GLU:O	44:EA:437:ILE:HG12	1.92	0.69
44:EC:99:ALA:HB3	46:EC:501:GTP:O2G	1.92	0.69
44:EE:208:ALA:CA	44:EE:304:LYS:HE3	2.22	0.69
44:EE:208:ALA:O	44:EE:212:ILE:HG12	1.92	0.69
44:EE:276:ILE:CD1	44:EE:281:ALA:HA	2.23	0.69
45:EF:330:MET:HB3	45:EF:349:ILE:HG21	1.75	0.69
45:EH:46:ARG:NH2	44:EI:76:ASP:OD2	2.25	0.69
45:EH:124:ALA:HB1	45:EH:130:LEU:CD1	2.22	0.69
45:EH:135:ILE:HG21	45:EH:152:ILE:HD11	1.73	0.69
44:EI:387:VAL:O	44:EI:391:LEU:HD23	1.93	0.69
45:EL:320:ARG:O	45:EL:321:MET:HE2	1.92	0.69
44:EM:6:SER:CB	44:EM:136:LEU:HB2	2.22	0.69
44:EM:15:GLN:NE2	46:EM:501:GTP:O6	2.24	0.69
45:EN:233:MET:SD	45:EN:234:SER:N	2.65	0.69
45:EN:312:THR:CA	45:EN:348:ASN:HB2	2.23	0.69
44:FA:104:ALA:O	44:FA:107:HIS:N	2.23	0.69
45:FB:20:PHE:HA	45:FB:230:SER:OG	1.93	0.69
44:FC:230:LEU:HD11	44:FC:275:ILE:HG21	1.74	0.69
45:FD:20:PHE:HD2	45:FD:21:TRP:CD1	2.10	0.69
45:FD:245:GLN:HG3	45:FD:353:ILE:HG21	1.75	0.69
45:FD:318:ARG:O	45:FD:321:MET:HE1	1.93	0.69
45:FD:363:MET:SD	45:FD:364:ALA:N	2.63	0.69
45:FF:202:ILE:HD11	45:FF:300:MET:HB3	1.75	0.69
44:FG:311:LYS:HA	44:FG:342:GLN:NE2	2.06	0.69
44:FI:422:ARG:NH1	44:FI:426:ALA:HB2	2.08	0.69
45:FJ:208:TYR:CE1	45:FJ:225:LEU:HD11	2.27	0.69
44:FK:205:ASP:OD1	44:FK:303:ALA:HA	1.92	0.69
44:FK:259:LEU:O	44:FK:380:ASN:ND2	2.25	0.69
44:FK:270:SER:HB3	44:FK:378:ILE:HG13	1.75	0.69
44:FK:276:ILE:HD13	44:FK:281:ALA:HA	1.75	0.69
44:FM:119:LEU:HD13	44:FM:122:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:4:ILE:HG22	45:FN:132:GLY:N	2.08	0.69
45:FN:130:LEU:HD11	45:FN:133:PHE:CE1	2.25	0.69
45:FN:293:MET:HE2	45:FN:367:PHE:HA	1.74	0.69
44:GA:49:PHE:O	44:GA:53:PHE:N	2.22	0.69
44:GA:287:SER:O	44:GA:291:ILE:HG23	1.93	0.69
44:GC:100:ALA:O	45:GD:255:VAL:HG21	1.92	0.69
44:GC:139:ASN:OD1	44:GC:170:THR:HG22	1.93	0.69
45:GD:102:ALA:HA	45:GD:403:MET:CE	2.22	0.69
44:GE:238:LEU:HD21	44:GE:255:PHE:CE2	2.27	0.69
44:GE:334:THR:O	44:GE:338:LYS:HG2	1.92	0.69
45:GF:207:LEU:HB3	45:GF:225:LEU:CD1	2.22	0.69
45:GH:3:GLU:HG3	45:GH:62:ARG:NH1	2.08	0.69
45:GH:36:TYR:CE2	45:GH:44:LEU:HD11	2.26	0.69
44:GI:171:ILE:HD13	44:GI:204:LEU:HB2	1.75	0.69
44:GI:187:SER:O	44:GI:190:SER:OG	2.07	0.69
44:GI:196:GLU:O	44:GI:197:HIS:ND1	2.26	0.69
44:GI:203:MET:HG3	44:GI:384:ILE:HD11	1.74	0.69
44:GK:262:TYR:HE2	44:GK:435:VAL:HG11	1.58	0.69
44:GK:326:LYS:HE2	45:GN:220:PRO:CB	2.23	0.69
45:GN:318:ARG:HH11	45:GN:358:PRO:HG3	1.58	0.69
44:HA:268:MET:HA	44:HA:268:MET:CE	2.23	0.69
45:HB:73:MET:CE	45:HB:92:PHE:HB3	2.22	0.69
44:HG:101:ASN:HA	44:HG:144:GLY:HA3	1.75	0.69
44:HG:346:TRP:CD1	45:HJ:391:ARG:HG3	2.28	0.69
45:HH:102:ALA:HB2	45:HH:403:MET:CE	2.23	0.69
45:HH:237:THR:O	45:HH:237:THR:HG22	1.93	0.69
44:HK:332:ILE:HG22	44:HK:336:LYS:HE2	1.75	0.69
44:HM:210:TYR:CE1	44:HM:227:LEU:HD11	2.28	0.69
44:IA:71:GLU:OE1	44:IA:73:THR:N	2.25	0.69
44:IA:221:ARG:NH1	45:IB:325:GLU:HB3	2.07	0.69
45:IB:101:TRP:CE3	45:IB:187:LEU:HD13	2.27	0.69
45:IB:132:GLY:HA3	45:IB:163:ILE:CG1	2.22	0.69
45:IB:248:SER:HA	45:IB:252:LYS:HD2	1.73	0.69
45:IB:269:GLY:O	45:IB:367:PHE:N	2.17	0.69
45:IB:334:GLN:HB2	45:IB:349:ILE:CD1	2.22	0.69
44:IC:340:THR:HG23	44:IC:341:ILE:HG13	1.74	0.69
45:ID:3:GLU:HG3	45:ID:62:ARG:NH1	2.07	0.69
45:ID:45:GLU:OE2	45:ID:46:ARG:HG2	1.91	0.69
44:IE:141:VAL:CG2	44:IE:187:SER:HA	2.23	0.69
45:IH:101:TRP:HE1	45:IH:146:GLY:HA2	1.58	0.69
44:II:14:ILE:CD1	44:II:69:ASP:HB2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:261:PRO:HA	45:IL:394:PHE:CD1	2.27	0.69
44:II:265:ILE:HD12	44:II:432:TYR:CE1	2.27	0.69
44:II:275:ILE:O	44:II:275:ILE:HG23	1.93	0.69
45:IJ:113:ILE:HD12	45:IJ:150:LEU:HD22	1.74	0.69
45:IL:116:VAL:O	45:IL:119:VAL:HG12	1.93	0.69
45:IN:28:HIS:HA	45:IN:43:GLN:HG2	1.75	0.69
45:IN:41:ASP:OD1	45:IN:42:LEU:HD12	1.92	0.69
45:IN:54:ALA:HB1	44:JK:285:GLN:HA	1.74	0.69
44:JA:340:THR:CG2	44:JA:341:ILE:HD12	2.12	0.69
45:JB:279:GLN:HG3	45:JB:280:GLN:HG3	1.74	0.69
44:JC:138:PHE:HD2	44:JC:169:PHE:HB2	1.56	0.69
44:JE:195:LEU:O	44:JE:195:LEU:HD23	1.93	0.69
44:JE:285:GLN:O	44:JE:286:LEU:HD23	1.93	0.69
44:JG:14:ILE:HD11	44:JG:69:ASP:HB2	1.75	0.69
45:JJ:219:THR:HA	45:JJ:220:PRO:N	2.07	0.69
44:JK:268:MET:CE	44:JK:380:ASN:HB2	2.23	0.69
45:JL:87:PRO:HD2	45:KL:281:TYR:CD1	2.28	0.69
45:JL:87:PRO:HD2	45:KL:281:TYR:HD1	1.56	0.69
45:JN:6:HIS:NE2	45:JN:8:GLN:HB3	2.08	0.69
45:JN:206:ALA:O	45:JN:210:ILE:HD12	1.93	0.69
45:JN:268:ILE:HG13	45:JN:300:MET:HE2	1.75	0.69
45:JN:313:ALA:HB1	45:JN:367:PHE:HE1	1.57	0.69
45:KB:36:TYR:CZ	45:KB:44:LEU:HD21	2.27	0.69
45:KB:207:LEU:HG	45:KB:300:MET:CE	2.21	0.69
44:KC:110:ILE:HD12	44:KC:113:GLU:OE2	1.93	0.69
44:KC:276:ILE:HG12	44:KC:281:ALA:HA	1.75	0.69
44:KC:324:VAL:HG21	45:KF:219:THR:CG2	2.23	0.69
45:KD:3:GLU:HG3	45:KD:62:ARG:HH12	1.57	0.69
44:KE:288:VAL:HG11	44:KE:327:ASP:HB3	1.75	0.69
45:KF:268:ILE:O	45:KF:300:MET:HG2	1.93	0.69
44:KG:71:GLU:OE1	44:KG:73:THR:OG1	2.10	0.69
44:KG:275:ILE:CD1	44:KG:368:LEU:HD11	2.22	0.69
45:KH:20:PHE:HA	45:KH:230:SER:OG	1.92	0.69
44:KI:10:GLY:O	44:KI:14:ILE:HG13	1.92	0.69
45:KJ:175:VAL:O	45:KJ:175:VAL:HG23	1.92	0.69
44:KK:268:MET:HE2	44:KK:378:ILE:HG22	1.73	0.69
44:KK:404:PHE:HE1	45:KL:259:PRO:HA	1.56	0.69
45:KL:383:GLU:O	45:KL:386:THR:HG22	1.93	0.69
45:KN:52:ASN:OD1	45:KN:62:ARG:NH2	2.25	0.69
45:KN:135:ILE:HG21	45:KN:152:ILE:HD11	1.75	0.69
45:LB:12:CYS:SG	45:LB:138:SER:HB2	2.32	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:117:LEU:HB3	45:LD:121:ARG:NH1	2.08	0.69
45:LH:112:LEU:O	45:LH:112:LEU:HD23	1.93	0.69
44:LI:206:ASN:ND2	46:LI:501:GTP:O2'	2.25	0.69
45:LN:12:CYS:HB2	48:LN:502:GDP:C8	2.28	0.69
45:MD:163:ILE:HD11	45:MD:250:LEU:HD12	1.74	0.69
45:MF:172:SER:OG	45:MF:205:GLU:OE1	2.08	0.69
45:MF:215:LEU:HD21	45:MF:217:LEU:HD21	1.73	0.69
45:MH:73:MET:HE3	45:MH:92:PHE:HB3	1.75	0.69
44:MI:245:ASP:OD1	44:MI:246:GLY:N	2.24	0.69
44:MI:276:ILE:HG23	44:MI:281:ALA:HB1	1.75	0.69
44:MM:66:VAL:HG12	44:MM:91:GLN:HE21	1.56	0.69
44:MM:294:SER:O	44:MM:297:GLU:HG3	1.93	0.69
44:MM:404:PHE:HE1	45:MN:259:PRO:HA	1.57	0.69
45:MN:379:LYS:O	45:MN:383:GLU:N	2.23	0.69
44:NA:29:GLY:O	44:NA:40:LYS:NZ	2.24	0.69
44:NA:70:LEU:HD12	44:NA:145:THR:CG2	2.22	0.69
45:NB:272:PRO:CD	45:NB:364:ALA:HA	2.19	0.69
44:NC:97:GLU:OE2	44:NC:98:ASP:N	2.25	0.69
44:NC:278:ALA:HB2	44:NC:369:ALA:CB	2.21	0.69
44:NC:348:PRO:HD2	45:NF:388:MET:CE	2.23	0.69
45:ND:214:THR:OG1	45:ND:273:LEU:O	2.09	0.69
44:NE:296:PHE:CE1	44:NE:335:ILE:HG21	2.28	0.69
44:NG:34:GLY:HA3	44:NG:60:LYS:HE3	1.75	0.69
44:NG:210:TYR:CE1	44:NG:227:LEU:HD11	2.28	0.69
44:NG:288:VAL:HA	44:NG:291:ILE:HG12	1.74	0.69
44:NI:68:LEU:HG	44:NI:93:ILE:HB	1.75	0.69
44:NI:213:CYS:O	44:NI:217:LEU:HB2	1.93	0.69
45:NJ:11:GLN:HG3	45:NJ:72:THR:HG21	1.75	0.69
45:NJ:86:ARG:HA	45:OJ:281:TYR:HD2	1.56	0.69
44:NK:6:SER:HB2	44:NK:8:HIS:HE1	1.57	0.69
44:NK:17:GLY:HA2	44:NK:20:CYS:HB2	1.73	0.69
44:NK:210:TYR:HE1	44:NK:227:LEU:HD11	1.58	0.69
45:NL:73:MET:O	45:NL:76:VAL:HG12	1.92	0.69
44:NM:272:TYR:HD1	44:NM:376:CYS:HB2	1.58	0.69
44:NM:288:VAL:O	44:NM:291:ILE:HG12	1.91	0.69
44:NM:294:SER:O	44:NM:300:ASN:ND2	2.21	0.69
45:NN:213:ARG:HG2	45:NN:297:LYS:HE3	1.72	0.69
45:NN:234:SER:O	45:NN:238:CYS:N	2.26	0.69
44:OA:406:HIS:NE2	45:OB:259:PRO:O	2.21	0.69
45:OB:286:VAL:CG2	45:OB:321:MET:HE3	2.23	0.69
45:OD:101:TRP:CE3	45:OD:187:LEU:HD13	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:207:GLU:HB3	44:OG:304:LYS:CE	2.23	0.69
45:OH:182:PRO:HB3	45:OH:384:GLN:CG	2.23	0.69
45:OH:352:SER:O	45:OH:353:ILE:HD13	1.93	0.69
44:OI:288:VAL:HG11	44:OI:327:ASP:HB3	1.73	0.69
45:OL:136:THR:HA	45:OL:167:PHE:O	1.92	0.69
44:OM:186:ASN:OD1	44:OM:187:SER:N	2.26	0.69
45:ON:208:TYR:CE1	45:ON:225:LEU:HD11	2.28	0.69
45:ON:257:LEU:O	45:ON:259:PRO:HD3	1.91	0.69
44:PA:75:ILE:HD12	44:PA:94:SER:HB2	1.73	0.69
44:PA:121:ARG:HH12	44:PA:124:LYS:HD2	1.58	0.69
45:PB:49:VAL:HG12	45:PB:50:TYR:CD1	2.28	0.69
45:PB:173:PRO:HG3	45:PB:380:ARG:HD3	1.73	0.69
45:PB:313:ALA:HB3	45:PB:349:ILE:CD1	2.22	0.69
44:PC:224:TYR:CE2	45:PD:246:LEU:HD11	2.28	0.69
45:PD:11:GLN:CB	45:PD:72:THR:HG21	2.23	0.69
45:PD:163:ILE:CG2	45:PD:251:ARG:HG2	2.23	0.69
45:PJ:86:ARG:HH22	45:QH:278:SER:HA	1.57	0.69
45:PJ:110:ALA:O	45:PJ:113:ILE:HG22	1.93	0.69
45:PJ:116:VAL:O	45:PJ:120:VAL:HG23	1.93	0.69
44:PK:6:SER:HA	44:PK:136:LEU:HB2	1.75	0.69
44:PK:171:ILE:HG23	44:PK:204:LEU:O	1.91	0.69
44:PK:260:VAL:HG11	44:PK:266:HIS:HB3	1.75	0.69
44:PM:169:PHE:HD1	44:PM:202:VAL:HG11	1.57	0.69
44:PM:289:ALA:O	44:PM:292:THR:HG22	1.91	0.69
45:PN:173:PRO:HG2	45:PN:380:ARG:NH1	2.08	0.69
44:QA:332:ILE:O	44:QA:335:ILE:HG22	1.93	0.69
45:QB:150:LEU:O	45:QB:154:LYS:HG2	1.91	0.69
45:QB:313:ALA:HB3	45:QB:349:ILE:HG12	1.73	0.69
44:QC:47:ASP:HB2	44:QC:49:PHE:CD1	2.28	0.69
44:QC:107:HIS:CD2	44:QC:152:LEU:HD21	2.28	0.69
44:QC:325:PRO:HG2	45:QD:222:TYR:HE2	1.58	0.69
45:QD:240:LEU:HD23	45:QD:240:LEU:O	1.93	0.69
45:QD:385:PHE:HE2	45:QD:412:GLU:HB2	1.56	0.69
44:QE:202:VAL:HA	44:QE:268:MET:O	1.93	0.69
44:QE:252:ILE:HD12	44:QE:255:PHE:HD2	1.56	0.69
44:QE:384:ILE:O	44:QE:387:VAL:HG22	1.93	0.69
44:QG:254:GLU:HG3	44:QG:254:GLU:O	1.93	0.69
44:QI:31:GLN:HE22	44:QI:37:PRO:HG3	1.58	0.69
44:QI:402:ARG:HB2	44:QI:405:VAL:HG21	1.75	0.69
44:QK:29:GLY:O	44:QK:31:GLN:NE2	2.26	0.69
45:QL:25:SER:HB2	45:QL:81:PHE:HE2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:48:ALA:HB1	44:QM:243:ARG:HG3	1.73	0.69
45:QN:1:MET:O	45:QN:2:ARG:HG2	1.93	0.69
45:RB:282:ARG:HH21	45:RB:288:GLU:HB3	1.58	0.69
44:RC:271:SER:CA	44:RC:302:MET:HG2	2.22	0.69
45:RD:121:ARG:NH2	45:RD:158:GLU:OE2	2.24	0.69
45:RD:130:LEU:CB	45:RD:162:ARG:HD2	2.20	0.69
45:RD:199:CYS:HB3	45:RD:265:PHE:HD1	1.57	0.69
44:RE:21:TRP:HA	44:RE:24:PHE:HB2	1.74	0.69
44:RE:312:TYR:CE2	44:RE:341:ILE:HG23	2.27	0.69
44:RG:274:PRO:HD3	44:RG:374:ALA:CB	2.23	0.69
45:RH:67:ASP:HB3	45:RH:73:MET:SD	2.33	0.69
45:RH:289:LEU:HD21	45:RH:363:MET:SD	2.32	0.69
44:RI:19:ALA:HA	44:RI:22:GLU:OE1	1.92	0.69
44:RI:387:VAL:HA	44:RI:390:ARG:HG2	1.75	0.69
45:RN:309:ARG:NH2	45:RN:426:GLN:O	2.22	0.69
44:SA:54:SER:HB3	44:SA:64:ARG:NH1	2.07	0.69
44:SA:209:ILE:HA	44:SA:212:ILE:HD13	1.73	0.69
45:SB:4:ILE:HG22	45:SB:132:GLY:N	2.08	0.69
45:SB:20:PHE:O	45:SB:24:ILE:N	2.17	0.69
45:SB:52:ASN:HB2	45:SB:60:VAL:HG12	1.75	0.69
45:SB:290:THR:N	45:SB:293:MET:HE2	2.08	0.69
44:SC:335:ILE:HA	44:SC:338:LYS:NZ	2.08	0.69
44:SE:89:PRO:CG	44:TE:280:LYS:HE2	2.23	0.69
44:SG:272:TYR:HB2	44:SG:302:MET:CE	2.23	0.69
44:SI:102:ASN:OD1	44:SI:105:ARG:HG2	1.93	0.69
44:SK:188:ILE:HD12	44:SK:425:LEU:HD11	1.75	0.69
45:SL:20:PHE:CE1	45:SL:233:MET:HB3	2.26	0.69
45:SL:337:ASN:HB3	45:SL:340:TYR:HB2	1.73	0.69
44:SM:10:GLY:N	44:SM:68:LEU:O	2.25	0.69
44:SM:177:VAL:HB	44:SM:207:GLU:OE1	1.92	0.69
44:SM:186:ASN:OD1	44:SM:187:SER:N	2.25	0.69
44:TA:257:THR:HG23	45:TB:397:TRP:CH2	2.27	0.69
44:TA:298:PRO:HA	44:TA:307:PRO:CG	2.22	0.69
44:TC:434:GLU:O	44:TC:437:ILE:HG12	1.93	0.69
45:TD:260:PHE:HB3	45:TD:261:PRO:HD2	1.75	0.69
45:TF:246:LEU:HD11	44:TG:224:TYR:HE2	1.58	0.69
45:TF:363:MET:HE2	45:TF:364:ALA:H	1.58	0.69
44:TG:289:ALA:O	44:TG:292:THR:HG22	1.93	0.69
45:TH:2:ARG:HH12	45:TH:240:LEU:HG	1.58	0.69
44:TI:53:PHE:O	44:TI:64:ARG:NH2	2.23	0.69
45:TJ:99:ASN:C	45:TJ:142:GLY:HA3	2.13	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:139:ASN:HB2	44:TK:146:GLY:O	1.92	0.69
45:TL:21:TRP:CD2	45:TL:61:PRO:HB3	2.27	0.69
45:TL:230:SER:HA	45:TL:233:MET:HE2	1.75	0.69
45:TL:316:LEU:HG	45:TL:352:SER:CB	2.23	0.69
44:TM:112:LYS:HE2	44:TM:112:LYS:H	1.57	0.69
44:TM:138:PHE:CD1	44:TM:169:PHE:HB2	2.28	0.69
44:TM:296:PHE:HD2	44:TM:335:ILE:HD12	1.58	0.69
45:TN:318:ARG:CG	45:TN:358:PRO:HD3	2.23	0.69
44:UC:36:MET:SD	44:UC:38:SER:N	2.66	0.69
44:UC:269:LEU:O	44:UC:379:SER:N	2.26	0.69
45:UD:113:ILE:CD1	45:UD:150:LEU:HD22	2.22	0.69
45:UD:253:LEU:O	45:UD:257:LEU:HD13	1.93	0.69
45:UD:318:ARG:NE	45:UD:357:PRO:HA	2.08	0.69
45:UF:318:ARG:HD3	45:UF:358:PRO:HD3	1.73	0.69
45:UF:341:PHE:HB3	45:UF:348:ASN:HD21	1.58	0.69
44:UG:3:GLU:OE2	44:UG:129:CYS:HB3	1.93	0.69
45:UH:72:THR:O	45:UH:75:SER:OG	2.08	0.69
44:UI:5:ILE:HB	44:UI:135:PHE:HD1	1.55	0.69
44:UI:18:ASN:OD1	44:UI:19:ALA:N	2.26	0.69
45:UJ:14:ASN:CB	45:UJ:73:MET:HE1	2.22	0.69
44:UK:3:GLU:O	44:UK:132:LEU:HA	1.92	0.69
44:UK:329:ASN:OD1	45:UL:175:VAL:HG11	1.93	0.69
45:UL:245:GLN:O	44:UM:11:GLN:HG2	1.92	0.69
44:UM:208:ALA:O	44:UM:212:ILE:HG12	1.92	0.69
45:UN:193:VAL:HG23	45:UN:265:PHE:CZ	2.28	0.69
44:VA:167:LEU:HD13	44:VA:252:ILE:HD11	1.74	0.69
44:VA:284:GLU:HG3	44:VA:286:LEU:HD23	1.74	0.69
45:VB:420:SER:O	45:VB:424:GLN:NE2	2.25	0.69
44:VC:136:LEU:HA	44:VC:167:LEU:O	1.92	0.69
44:VG:276:ILE:HG23	44:VG:281:ALA:HB2	1.74	0.69
45:VL:344:TRP:HB3	45:VL:430:ALA:HB2	1.73	0.69
44:WA:53:PHE:CE2	44:WA:63:PRO:HG3	2.27	0.69
44:WA:384:ILE:O	44:WA:387:VAL:HG22	1.93	0.69
45:WB:315:ALA:N	45:WB:350:LYS:O	2.23	0.69
44:WC:179:THR:O	45:WD:350:LYS:HA	1.92	0.69
45:WD:6:HIS:HE2	45:WD:8:GLN:HB3	1.57	0.69
44:WI:288:VAL:CA	44:WI:291:ILE:HG12	2.23	0.69
44:WI:407:TRP:HZ3	45:WJ:255:VAL:HG13	1.56	0.69
45:WJ:136:THR:HG22	45:WJ:167:PHE:HB2	1.73	0.69
44:WK:253:THR:O	44:WK:257:THR:HG23	1.91	0.69
44:WK:382:THR:HB	44:WK:432:TYR:HD1	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WL:314:SER:OG	45:WL:368:VAL:O	2.10	0.69
44:WM:72:PRO:HD2	45:WN:2:ARG:NH1	2.08	0.69
26:1R:14:THR:OG1	45:MF:221:THR:HG21	1.91	0.69
15:1V:27:TYR:HE2	44:MI:433:GLU:HG3	1.57	0.69
17:2B:16:PHE:CZ	44:LK:364:PRO:HB2	2.26	0.69
31:2H:205:GLN:HB3	44:AC:82:THR:HG23	1.75	0.69
32:2I:45:LYS:NZ	45:GH:332:ASN:HA	2.07	0.69
15:2V:172:LYS:NZ	44:MG:423:GLU:OE2	2.23	0.69
2:3A:71:TYR:CZ	44:AM:223:THR:HG21	2.27	0.69
26:3R:99:VAL:HG21	44:AK:41:THR:O	1.91	0.69
38:5H:77:LYS:HD2	38:5H:80:LYS:HD2	1.75	0.69
39:5J:93:ASP:OD1	44:JG:431:ASP:HA	1.92	0.69
35:5R:387:PRO:O	45:EJ:276:ARG:NE	2.18	0.69
36:5S:91:LEU:HD11	36:5S:96:LEU:HD21	1.73	0.69
41:6G:270:THR:OG1	44:VA:298:PRO:HD3	1.92	0.69
35:7R:334:LEU:O	35:7R:360:TYR:OH	2.09	0.69
35:7R:462:ASN:OD1	45:FB:219:THR:N	2.20	0.69
44:AA:242:LEU:HD11	44:AA:252:ILE:HG13	1.74	0.69
45:AD:73:MET:O	45:AD:76:VAL:HG12	1.93	0.69
45:AD:110:ALA:O	45:AD:113:ILE:HG22	1.92	0.69
45:AF:113:ILE:HA	45:AF:116:VAL:HG12	1.75	0.69
45:AL:201:VAL:HG13	45:AL:301:CYS:SG	2.32	0.69
44:BA:100:ALA:O	45:BB:255:VAL:HG21	1.93	0.69
44:BA:312:TYR:HA	44:BA:381:SER:OG	1.93	0.69
45:BF:141:GLY:HA3	48:BF:502:GDP:O3A	1.93	0.69
45:BH:131:GLN:O	45:BH:163:ILE:HG12	1.92	0.69
45:BH:269:GLY:HA2	45:BH:300:MET:HG2	1.75	0.69
44:BK:141:VAL:CG1	44:BK:172:TYR:HA	2.23	0.69
45:BL:202:ILE:HG23	45:BL:300:MET:HE3	1.73	0.69
44:BM:103:PHE:H	44:BM:408:TYR:HE2	1.37	0.69
44:BM:434:GLU:O	44:BM:437:ILE:HG12	1.93	0.69
45:CB:144:GLY:N	48:CB:501:GDP:O2B	2.26	0.69
45:CF:143:THR:HG22	48:CF:501:GDP:O2B	1.93	0.69
44:CG:213:CYS:O	44:CG:217:LEU:HB2	1.92	0.69
44:CM:13:GLY:HA2	44:CM:16:VAL:HG12	1.73	0.69
45:CN:180:VAL:HG22	45:CN:183:TYR:HB2	1.74	0.69
44:DA:319:TYR:HB3	44:DA:323:VAL:HG11	1.73	0.69
44:DE:296:PHE:CE2	44:DE:335:ILE:HG21	2.28	0.69
44:DE:308:ARG:NH2	44:DE:340:THR:OG1	2.26	0.69
45:DF:99:ASN:HA	45:DF:142:GLY:HA3	1.75	0.69
44:DI:131:GLY:O	44:DI:133:GLN:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:188:ILE:HG23	44:DI:425:LEU:HD12	1.73	0.69
45:DJ:319:GLY:HA2	45:DJ:357:PRO:HG3	1.74	0.69
44:DK:432:TYR:HA	44:DK:435:VAL:HG22	1.74	0.69
44:EA:30:ILE:HA	44:EA:36:MET:HA	1.75	0.69
44:EA:171:ILE:HG12	44:EA:204:LEU:HB3	1.75	0.69
44:EC:88:HIS:CE1	44:EC:90:GLU:HG2	2.27	0.69
44:EE:329:ASN:ND2	45:EF:175:VAL:HG21	2.08	0.69
45:EF:285:THR:OG1	45:EF:287:PRO:HD2	1.92	0.69
44:EI:332:ILE:HD12	44:EI:351:PHE:CD2	2.27	0.69
45:EJ:172:SER:OG	45:EJ:175:VAL:HG22	1.93	0.69
44:EK:271:SER:HG	44:EK:301:MET:HA	1.54	0.69
45:EL:382:ALA:HA	45:EL:385:PHE:HB3	1.74	0.69
44:EM:210:TYR:CZ	44:EM:227:LEU:HD11	2.28	0.69
45:FF:167:PHE:CE1	45:FF:233:MET:HG2	2.27	0.69
44:FG:273:ALA:HA	44:FG:275:ILE:HD12	1.73	0.69
45:FH:86:ARG:HE	45:FH:87:PRO:HD2	1.58	0.69
44:FI:174:SER:HB2	44:FI:177:VAL:O	1.93	0.69
45:FN:161:ASP:OD1	45:FN:162:ARG:N	2.25	0.69
45:GB:150:LEU:HD21	45:GB:154:LYS:HE2	1.74	0.69
45:GD:376:GLU:OE1	45:GD:376:GLU:N	2.23	0.69
45:GF:377:MET:O	45:GF:380:ARG:HG2	1.91	0.69
45:GH:113:ILE:O	45:GH:117:LEU:N	2.21	0.69
45:GH:217:LEU:HD11	45:GH:220:PRO:HG3	1.74	0.69
44:GK:210:TYR:CD2	45:GL:324:LYS:HG3	2.27	0.69
45:GL:293:MET:HG3	45:GL:294:PHE:CD1	2.27	0.69
45:HB:395:LEU:HG	45:HB:399:THR:CG2	2.21	0.69
44:HC:434:GLU:O	44:HC:437:ILE:HG12	1.93	0.69
45:HD:398:TYR:HB3	45:HD:403:MET:HE1	1.74	0.69
44:HE:191:THR:HA	44:HE:194:LEU:HG	1.74	0.69
44:HE:245:ASP:OD1	44:HE:246:GLY:N	2.26	0.69
44:HE:247:ALA:HB2	44:HE:357:TYR:OH	1.92	0.69
45:HF:202:ILE:HD11	45:HF:268:ILE:CG1	2.22	0.69
45:HN:271:ALA:HB1	45:HN:272:PRO:HA	1.75	0.69
44:IE:394:LYS:NZ	45:IF:347:ASN:OD1	2.26	0.69
45:IF:262:ARG:HH22	45:IF:418:LEU:HA	1.55	0.69
44:IG:195:LEU:HD21	44:IG:264:ARG:HH22	1.56	0.69
45:IH:233:MET:O	45:IH:236:VAL:HG12	1.93	0.69
44:II:346:TRP:CE3	44:II:347:CYS:HB2	2.28	0.69
44:IM:88:HIS:CG	44:IM:89:PRO:HD2	2.27	0.69
44:IM:161:TYR:HB3	44:IM:164:LYS:CE	2.22	0.69
45:IN:156:ARG:HG2	45:IN:195:ASN:OD1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:104:GLY:O	45:JB:109:GLY:HA3	1.93	0.69
44:JE:51:THR:HG21	44:JE:243:ARG:HB3	1.74	0.69
45:JF:202:ILE:HD13	45:JF:229:VAL:HG22	1.73	0.69
44:JG:113:GLU:O	44:JG:114:ILE:HD13	1.93	0.69
44:JG:269:LEU:CD1	44:JG:301:MET:HE2	2.22	0.69
44:JI:55:GLU:OE2	44:JI:57:GLY:N	2.25	0.69
44:JI:332:ILE:O	44:JI:335:ILE:HG22	1.92	0.69
44:JK:31:GLN:NE2	44:JK:35:GLN:HB3	2.08	0.69
45:KD:24:ILE:HD12	45:KD:241:ARG:NH1	2.06	0.69
45:KF:60:VAL:HA	45:KF:86:ARG:NH1	2.08	0.69
45:KN:67:ASP:OD1	45:KN:68:LEU:N	2.26	0.69
45:KN:186:THR:O	45:KN:189:VAL:N	2.26	0.69
44:LG:2:ARG:O	44:LG:2:ARG:HG2	1.91	0.69
44:LI:288:VAL:CG1	44:LI:327:ASP:HB3	2.22	0.69
45:LL:244:GLY:HA2	45:LL:355:ASP:OD2	1.92	0.69
44:LM:141:VAL:HG21	44:LM:172:TYR:CD1	2.27	0.69
45:LN:186:THR:HG21	45:LN:385:PHE:CE1	2.28	0.69
44:ME:70:LEU:HD13	44:ME:110:ILE:HD12	1.74	0.69
45:MF:215:LEU:HD21	45:MF:217:LEU:CD2	2.23	0.69
44:MG:190:SER:O	44:MG:193:SER:N	2.25	0.69
44:MI:275:ILE:HD12	44:MI:368:LEU:HD11	1.75	0.69
44:MK:71:GLU:OE2	45:ML:2:ARG:NH2	2.25	0.69
44:MK:288:VAL:HG11	44:MK:327:ASP:CB	2.22	0.69
45:NB:345:ILE:HG13	45:NB:348:ASN:HB3	1.75	0.69
44:NE:12:GLY:O	44:NE:16:VAL:N	2.18	0.69
45:NH:407:GLU:O	45:NH:410:GLU:HG3	1.93	0.69
44:NI:89:PRO:HD3	44:OI:283:HIS:ND1	2.08	0.69
45:NL:295:ASP:OD1	45:NL:297:LYS:N	2.24	0.69
44:NM:320:ARG:NE	44:NM:358:GLN:O	2.25	0.69
44:OA:115:VAL:HG22	44:OA:119:LEU:HD23	1.75	0.69
44:OA:223:THR:HG22	45:OB:322:SER:CA	2.19	0.69
45:OB:329:GLN:HA	45:OB:332:ASN:HD21	1.58	0.69
44:OC:60:LYS:NZ	44:OC:85:GLN:O	2.23	0.69
44:OE:98:ASP:OD1	44:OE:99:ALA:N	2.25	0.69
45:OF:286:VAL:HG21	45:OF:325:GLU:CB	2.19	0.69
44:OG:271:SER:OG	44:OG:301:MET:HA	1.93	0.69
45:OH:156:ARG:NH2	45:OH:197:ASP:OD1	2.26	0.69
44:OI:407:TRP:CD2	45:OJ:255:VAL:HG22	2.28	0.69
44:PA:319:TYR:O	44:PA:356:ASN:N	2.26	0.69
44:PA:386:GLU:O	44:PA:389:SER:OG	2.10	0.69
45:PB:8:GLN:NE2	45:PB:14:ASN:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:49:PHE:HE1	44:PC:55:GLU:HB2	1.56	0.69
45:PD:302:ALA:HB3	45:PD:377:MET:CE	2.23	0.69
45:PF:174:LYS:HD2	45:PF:175:VAL:HG13	1.74	0.69
45:PH:270:PHE:HD2	45:PH:273:LEU:HD21	1.57	0.69
45:PH:387:ALA:O	45:PH:390:ARG:HG2	1.93	0.69
44:PK:260:VAL:HG13	44:PK:265:ILE:O	1.93	0.69
45:PL:6:HIS:HB2	45:PL:134:GLN:CG	2.23	0.69
44:PM:155:GLU:OE2	44:PM:193:SER:OG	2.10	0.69
44:QA:68:LEU:CD1	44:QA:93:ILE:HD13	2.22	0.69
44:QA:250:VAL:HG13	44:QA:254:GLU:OE1	1.93	0.69
44:QC:1:MET:O	44:QC:131:GLY:HA3	1.93	0.69
45:QD:61:PRO:HG2	45:QD:84:LEU:HG	1.74	0.69
44:QG:268:MET:HB2	44:QG:379:SER:C	2.12	0.69
45:QH:130:LEU:HD21	45:QH:133:PHE:HE2	1.57	0.69
44:QK:269:LEU:N	44:QK:379:SER:O	2.25	0.69
45:QL:375:GLN:HG2	45:QL:423:GLN:HE21	1.57	0.69
44:QM:328:VAL:O	44:QM:332:ILE:HG12	1.93	0.69
44:RA:252:ILE:HA	44:RA:255:PHE:CE2	2.26	0.69
45:RB:23:VAL:O	45:RB:27:GLU:N	2.24	0.69
44:RC:205:ASP:OD1	44:RC:303:ALA:HA	1.92	0.69
45:RH:249:ASP:OD1	45:RH:252:LYS:N	2.21	0.69
45:RL:118:ASP:OD1	45:RL:119:VAL:N	2.26	0.69
45:RN:112:LEU:O	45:RN:112:LEU:HD23	1.93	0.69
45:RN:382:ALA:O	45:RN:386:THR:HG22	1.93	0.69
44:SA:258:ASN:HA	45:SB:394:PHE:HE2	1.57	0.69
44:SC:141:VAL:HG11	44:SC:172:TYR:HA	1.73	0.69
44:SE:195:LEU:O	44:SE:266:HIS:NE2	2.23	0.69
44:SE:297:GLU:OE2	44:SE:300:ASN:ND2	2.26	0.69
44:SK:212:ILE:O	44:SK:216:ASN:N	2.26	0.69
44:SM:320:ARG:HB3	44:SM:356:ASN:HB3	1.73	0.69
45:SN:21:TRP:CZ3	45:SN:61:PRO:HB3	2.28	0.69
44:TA:288:VAL:HG22	44:TA:373:ARG:NH2	2.07	0.69
45:TB:58:ARG:HD3	45:UB:280:GLN:HB3	1.73	0.69
45:TD:207:LEU:HD23	45:TD:300:MET:SD	2.33	0.69
45:TD:242:PHE:CB	45:TD:356:ILE:HG13	2.23	0.69
45:TD:372:THR:O	45:TD:375:GLN:HG2	1.93	0.69
45:TH:312:THR:HA	45:TH:348:ASN:HB2	1.74	0.69
45:TJ:99:ASN:HA	45:TJ:142:GLY:HA3	1.74	0.69
45:UH:267:MET:SD	45:UH:299:MET:HB3	2.33	0.69
44:UI:268:MET:HB2	44:UI:379:SER:O	1.93	0.69
44:UI:269:LEU:HB2	44:UI:303:ALA:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UM:189:LEU:HD11	44:UM:418:PHE:CE1	2.28	0.69
44:VA:270:SER:CB	44:VA:378:ILE:HD13	2.23	0.69
44:VE:172:TYR:HE2	44:VE:203:MET:HG3	1.58	0.69
44:VE:252:ILE:HA	44:VE:255:PHE:CZ	2.27	0.69
44:VG:98:ASP:OD1	44:VG:99:ALA:N	2.26	0.69
44:VK:315:CYS:HB2	44:VK:377:MET:HE3	1.74	0.69
45:VL:68:LEU:HD23	45:VL:97:ALA:HB2	1.75	0.69
45:VL:239:CYS:SG	45:VL:248:SER:N	2.60	0.69
44:VM:20:CYS:HA	44:VM:232:ALA:HB1	1.75	0.69
44:VM:118:CYS:O	44:VM:122:ILE:HG12	1.93	0.69
45:VN:105:HIS:CE1	45:VN:150:LEU:HD12	2.28	0.69
45:VN:211:CYS:O	45:VN:217:LEU:HG	1.93	0.69
44:WC:204:LEU:HD13	44:WC:231:ILE:CD1	2.22	0.69
45:WD:320:ARG:NH1	45:WD:362:LYS:HB3	2.07	0.69
44:WE:292:THR:HG21	44:WE:331:SER:CB	2.22	0.69
45:WF:178:THR:HG22	45:WF:181:GLU:HG3	1.74	0.69
45:WF:251:ARG:O	45:WF:255:VAL:N	2.25	0.69
45:WH:20:PHE:CE1	45:WH:233:MET:HB3	2.27	0.69
45:WH:209:ASP:OD1	45:WH:213:ARG:HD3	1.93	0.69
44:WI:177:VAL:HG13	45:WJ:327:ASP:HB3	1.73	0.69
44:WK:252:ILE:HA	44:WK:255:PHE:CD2	2.28	0.69
22:1L:672:THR:O	45:CD:320:ARG:NH2	2.25	0.69
11:1Q:116:PRO:HG3	44:AC:263:PRO:CG	2.23	0.69
16:1X:81:ARG:NE	45:MF:276:ARG:HD3	2.08	0.69
26:2R:407:PHE:HB3	44:DG:58:ALA:HB3	1.72	0.69
26:3R:314:GLY:H	45:CL:215:LEU:HD11	1.55	0.69
16:4X:31:ASP:HB2	45:LL:218:THR:HG21	1.72	0.69
38:5E:134:ILE:HB	45:OD:224:ASP:OD1	1.92	0.69
38:5F:172:ASN:HB2	38:5F:176:ASP:HB2	1.73	0.69
11:5Q:169:ASP:O	11:5Q:170:ARG:HD2	1.93	0.69
35:6R:294:ASN:HD22	45:DN:217:LEU:HB2	1.58	0.69
35:7R:85:TRP:CZ3	44:AA:372:MET:HB3	2.28	0.69
45:AB:202:ILE:CG2	45:AB:207:LEU:HD21	2.23	0.69
45:AD:237:THR:CG2	45:AD:250:LEU:HD21	2.23	0.69
44:AE:231:ILE:O	44:AE:235:ILE:HG12	1.91	0.69
45:AL:426:GLN:HG2	45:AL:427:ASP:OD2	1.93	0.69
44:BA:55:GLU:OE1	44:BA:61:HIS:NE2	2.25	0.69
45:BD:137:HIS:O	45:BD:168:SER:HA	1.93	0.69
44:BE:24:PHE:HZ	44:BE:235:ILE:HG22	1.57	0.69
45:BH:67:ASP:HB3	45:BH:73:MET:SD	2.33	0.69
45:BJ:172:SER:HB2	45:BJ:380:ARG:NH2	2.02	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:101:ASN:HA	44:BK:144:GLY:HA3	1.74	0.69
45:BL:236:VAL:HG23	45:BL:237:THR:HG23	1.75	0.69
44:BM:153:LEU:O	44:BM:157:LEU:HG	1.93	0.69
45:BN:143:THR:HG22	48:BN:501:GDP:O2B	1.91	0.69
44:CC:167:LEU:HG	44:CC:200:VAL:HB	1.75	0.69
44:CE:311:LYS:HE2	44:CE:342:GLN:NE2	2.07	0.69
45:CN:64:ILE:HA	45:CN:89:ASN:HB3	1.75	0.69
44:DA:137:VAL:HG12	44:DA:167:LEU:O	1.92	0.69
44:DA:244:PHE:CE1	44:DA:358:GLN:HG2	2.28	0.69
45:DB:325:GLU:H	44:DC:221:ARG:CZ	2.05	0.69
45:DD:420:SER:O	45:DD:423:GLN:HG3	1.92	0.69
44:DG:88:HIS:CE1	44:DG:90:GLU:HG2	2.29	0.69
44:DI:311:LYS:NZ	44:DI:343:PHE:O	2.26	0.69
44:DI:428:LEU:HD21	44:DI:432:TYR:HE2	1.58	0.69
45:DJ:327:ASP:HB3	44:DK:177:VAL:HG13	1.74	0.69
45:DL:241:ARG:HG3	45:DL:242:PHE:CE1	2.28	0.69
45:DN:211:CYS:SG	45:DN:215:LEU:HD12	2.33	0.69
45:DN:246:LEU:O	45:DN:352:SER:HB3	1.92	0.69
45:EB:12:CYS:SG	45:EB:138:SER:N	2.65	0.69
45:ED:8:GLN:NE2	45:ED:14:ASN:OD1	2.26	0.69
44:EE:189:LEU:HD11	44:EE:418:PHE:CE1	2.28	0.69
44:EE:287:SER:HB3	44:EE:290:GLU:CG	2.17	0.69
44:EG:262:TYR:HB3	44:EG:263:PRO:HD2	1.75	0.69
44:EG:296:PHE:HE2	44:EG:335:ILE:HG13	1.58	0.69
45:EH:139:LEU:HD23	45:EH:185:ALA:O	1.92	0.69
45:EJ:184:ASN:OD1	45:EJ:185:ALA:N	2.26	0.69
44:EM:284:GLU:HG3	44:EM:286:LEU:H	1.58	0.69
44:FA:171:ILE:HG23	44:FA:204:LEU:O	1.93	0.69
44:FE:271:SER:N	44:FE:377:MET:SD	2.62	0.69
44:FG:137:VAL:HG22	44:FG:168:GLY:HA2	1.75	0.69
44:FG:141:VAL:HG11	44:FG:172:TYR:HD1	1.58	0.69
45:FH:7:ILE:CG1	45:FH:64:ILE:HD13	2.23	0.69
45:FH:31:ASP:OD2	45:FH:37:HIS:ND1	2.24	0.69
45:FN:232:ALA:O	45:FN:236:VAL:HG23	1.92	0.69
44:GA:318:MET:SD	44:GA:354:GLY:HA3	2.33	0.69
44:GC:70:LEU:HB3	44:GC:97:GLU:O	1.93	0.69
44:GM:301:MET:HE1	44:GM:307:PRO:CD	2.23	0.69
44:GM:407:TRP:HH2	45:GN:258:ILE:HB	1.56	0.69
45:GN:3:GLU:O	45:GN:130:LEU:HD12	1.92	0.69
45:HD:39:ASP:N	45:HD:43:GLN:OE1	2.22	0.69
44:HE:54:SER:HB3	44:HE:64:ARG:NH2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HG:311:LYS:N	44:HG:382:THR:OG1	2.26	0.69
45:HH:60:VAL:HG21	45:HH:86:ARG:HE	1.58	0.69
45:HH:257:LEU:HD11	45:HH:314:SER:CB	2.23	0.69
44:HI:258:ASN:ND2	44:HI:352:LYS:HB2	2.07	0.69
45:HL:3:GLU:HG3	45:HL:62:ARG:HH12	1.58	0.69
45:HL:344:TRP:CZ3	45:HL:345:ILE:HB	2.28	0.69
45:HN:8:GLN:OE1	45:HN:17:GLY:HA3	1.93	0.69
45:HN:101:TRP:CZ3	45:HN:187:LEU:HD22	2.28	0.69
44:IC:274:PRO:HG2	44:IC:371:VAL:HG21	1.75	0.69
45:IF:86:ARG:CZ	44:JC:283:HIS:HB2	2.22	0.69
44:IG:340:THR:HG23	44:IG:341:ILE:HG12	1.75	0.69
45:IH:286:VAL:CG1	45:IH:325:GLU:HG2	2.21	0.69
44:IK:326:LYS:HD3	45:IN:220:PRO:HD2	1.75	0.69
44:IK:329:ASN:O	44:IK:332:ILE:HG22	1.93	0.69
44:IM:224:TYR:CE2	45:IN:246:LEU:HD11	2.28	0.69
44:IM:247:ALA:HB3	44:IM:355:ILE:HB	1.75	0.69
44:IM:255:PHE:O	44:IM:258:ASN:N	2.20	0.69
44:IM:256:GLN:NE2	44:IM:257:THR:HG23	2.08	0.69
44:IM:288:VAL:HA	44:IM:291:ILE:CG1	2.23	0.69
44:IM:362:VAL:CG2	44:IM:368:LEU:HB2	2.23	0.69
45:IN:156:ARG:HB3	45:IN:195:ASN:HD21	1.58	0.69
45:IN:200:MET:HA	45:IN:266:PHE:O	1.92	0.69
45:JB:267:MET:CG	45:JB:374:ILE:HD11	2.23	0.69
44:JE:132:LEU:HG	44:JE:164:LYS:NZ	2.08	0.69
44:JE:297:GLU:HG2	44:JE:298:PRO:HD2	1.75	0.69
44:JM:404:PHE:HE1	45:JN:259:PRO:HA	1.57	0.69
44:KA:177:VAL:HG21	45:KB:327:ASP:HB3	1.73	0.69
45:KB:99:ASN:HA	45:KB:142:GLY:CA	2.20	0.69
45:KD:178:THR:CG2	45:KD:180:VAL:HG12	2.23	0.69
45:KD:304:ASP:HB3	45:KD:307:HIS:CD2	2.28	0.69
44:LA:81:GLY:O	44:LA:84:ARG:HD2	1.92	0.69
44:LC:101:ASN:HD22	44:LC:143:GLY:HA2	1.57	0.69
44:LC:210:TYR:HB3	44:LC:214:ARG:HH12	1.58	0.69
45:LF:286:VAL:HG12	45:LF:329:GLN:OE1	1.93	0.69
45:LF:317:PHE:HB3	45:LF:321:MET:SD	2.33	0.69
45:MB:175:VAL:HG22	45:MB:205:GLU:HB2	1.75	0.69
45:MB:204:ASN:OD1	45:MB:205:GLU:N	2.26	0.69
45:MD:134:GLN:NE2	45:MD:233:MET:SD	2.65	0.69
44:MG:249:ASN:OD1	44:MG:250:VAL:N	2.24	0.69
45:ND:377:MET:O	45:ND:380:ARG:HG3	1.91	0.69
45:NJ:172:SER:CB	45:NJ:205:GLU:HG2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:304:ASP:HB3	45:NJ:307:HIS:CD2	2.24	0.69
44:OE:60:LYS:HG2	44:OE:61:HIS:H	1.57	0.69
44:OE:222:PRO:O	45:OF:324:LYS:HG2	1.93	0.69
44:OE:229:ARG:CZ	44:OE:363:VAL:HG11	2.22	0.69
45:OF:143:THR:HG22	48:OF:501:GDP:O2B	1.93	0.69
45:OH:235:GLY:HA2	45:OH:318:ARG:HE	1.57	0.69
44:OI:174:SER:HB2	44:OI:177:VAL:O	1.93	0.69
44:OI:398:MET:HE3	45:OJ:345:ILE:HG22	1.73	0.69
45:OJ:11:GLN:HA	45:OJ:14:ASN:OD1	1.93	0.69
45:OJ:73:MET:O	45:OJ:76:VAL:HG12	1.93	0.69
45:OJ:319:GLY:HA2	45:OJ:357:PRO:CD	2.23	0.69
44:OK:141:VAL:HG11	44:OK:172:TYR:CD1	2.28	0.69
45:OL:282:ARG:HG3	45:OL:283:ALA:H	1.56	0.69
44:OM:259:LEU:HD11	44:OM:316:SER:CB	2.20	0.69
45:ON:46:ARG:O	45:ON:49:VAL:HG12	1.93	0.69
45:ON:86:ARG:HD2	45:ON:89:ASN:OD1	1.93	0.69
44:PA:54:SER:OG	44:PA:62:VAL:O	2.04	0.69
44:PA:112:LYS:HA	44:PA:115:VAL:HG12	1.75	0.69
44:PA:311:LYS:HD2	44:PA:342:GLN:HG3	1.74	0.69
45:PB:420:SER:O	45:PB:424:GLN:HG2	1.93	0.69
44:PC:89:PRO:HD3	44:QC:283:HIS:ND1	2.07	0.69
44:PC:183:GLU:HG2	44:PC:184:PRO:HD3	1.73	0.69
45:PD:52:ASN:HB2	45:PD:62:ARG:HH21	1.58	0.69
44:PE:145:THR:HG22	46:PE:501:GTP:O3B	1.92	0.69
44:PG:265:ILE:HG23	44:PG:432:TYR:CE1	2.27	0.69
45:PL:5:VAL:HG12	45:PL:62:ARG:CD	2.14	0.69
44:PM:101:ASN:HA	44:PM:144:GLY:N	2.08	0.69
45:QB:194:GLU:OE1	45:QB:194:GLU:N	2.23	0.69
44:QE:320:ARG:CG	44:QE:356:ASN:HB3	2.22	0.69
45:QF:3:GLU:CB	45:QF:49:VAL:HA	2.23	0.69
45:QF:285:THR:CG2	45:QF:287:PRO:HD2	2.23	0.69
45:QH:131:GLN:HE22	45:QH:249:ASP:HB2	1.57	0.69
45:QH:387:ALA:O	45:QH:390:ARG:HG2	1.93	0.69
44:QI:36:MET:HG2	44:QI:37:PRO:HD2	1.74	0.69
45:QJ:374:ILE:HA	45:QJ:377:MET:CE	2.23	0.69
45:QL:290:THR:HG21	45:QL:329:GLN:OE1	1.93	0.69
45:QN:107:THR:HG21	45:QN:401:GLU:OE2	1.93	0.69
45:RF:375:GLN:O	45:RF:379:LYS:HG3	1.92	0.69
44:RI:69:ASP:OD1	44:RI:70:LEU:N	2.26	0.69
45:RJ:41:ASP:O	45:RJ:44:LEU:HG	1.93	0.69
44:RK:88:HIS:H	44:RK:91:GLN:NE2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:420:SER:HA	45:RL:423:GLN:NE2	2.04	0.69
44:RM:5:ILE:HD12	44:RM:132:LEU:HD11	1.74	0.69
45:RN:187:LEU:HD23	45:RN:411:ALA:HB2	1.75	0.69
45:SD:20:PHE:HB2	45:SD:233:MET:HE1	1.76	0.69
44:SE:156:ARG:CA	44:SE:159:VAL:HG12	2.22	0.69
45:SF:285:THR:OG1	45:SF:288:GLU:HG2	1.92	0.69
44:SI:11:GLN:HB3	46:SI:501:GTP:O3A	1.93	0.69
44:SK:286:LEU:N	44:SK:290:GLU:OE2	2.26	0.69
44:SK:288:VAL:HG11	44:SK:323:VAL:HG13	1.74	0.69
45:SL:202:ILE:CD1	45:SL:268:ILE:HD11	2.23	0.69
45:SL:328:GLU:O	45:SL:332:ASN:N	2.22	0.69
44:SM:13:GLY:HA2	44:SM:16:VAL:HG12	1.75	0.69
44:SM:217:LEU:HD22	44:SM:367:ASP:HB3	1.74	0.69
45:SN:7:ILE:HG23	45:SN:64:ILE:O	1.92	0.69
45:SN:203:ASP:O	45:SN:207:LEU:HG	1.92	0.69
44:TC:288:VAL:HG11	44:TC:327:ASP:HB3	1.75	0.69
45:TD:252:LYS:HG3	44:TE:101:ASN:ND2	2.07	0.69
44:TG:386:GLU:O	44:TG:390:ARG:HG2	1.93	0.69
45:TL:331:LEU:HG	45:TL:334:GLN:HE21	1.56	0.69
45:TL:404:ASP:OD1	45:TL:407:GLU:HG3	1.92	0.69
44:TM:203:MET:HG3	44:TM:384:ILE:HD11	1.74	0.69
44:UC:7:ILE:HG23	44:UC:66:VAL:CG1	2.23	0.69
45:UD:287:PRO:O	45:UD:290:THR:HG22	1.93	0.69
44:UE:121:ARG:HA	44:UE:124:LYS:HZ3	1.58	0.69
45:UF:208:TYR:CD1	45:UF:220:PRO:HG2	2.27	0.69
45:UJ:2:ARG:HB2	45:UJ:131:GLN:OE1	1.92	0.69
44:UK:89:PRO:HG3	44:VI:280:LYS:CG	2.20	0.69
45:UN:164:MET:O	45:UN:197:ASP:HB2	1.93	0.69
45:UN:316:LEU:HA	45:UN:352:SER:HB2	1.73	0.69
44:VA:183:GLU:N	44:VA:184:PRO:HD2	2.08	0.69
44:VA:221:ARG:NH1	45:VB:325:GLU:H	1.90	0.69
44:VA:224:TYR:HB3	46:VA:501:GTP:O6	1.93	0.69
45:VD:66:MET:CE	45:VD:147:MET:HB3	2.23	0.69
44:VK:70:LEU:HD11	44:VK:149:LEU:HD21	1.75	0.69
44:VM:12:GLY:O	44:VM:16:VAL:N	2.26	0.69
45:VN:178:THR:CG2	45:VN:180:VAL:HG12	2.23	0.69
44:WC:330:ALA:O	44:WC:334:THR:N	2.22	0.69
44:WG:135:PHE:HB2	44:WG:166:LYS:HG2	1.75	0.69
44:WG:288:VAL:HA	44:WG:291:ILE:HG22	1.74	0.69
44:WI:223:THR:O	44:WI:227:LEU:HG	1.92	0.69
45:WL:39:ASP:OD1	45:WL:43:GLN:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0G:25:GLU:OE2	45:JL:218:THR:OG1	1.94	0.68
2:1A:111:SER:O	45:AF:276:ARG:NH2	2.20	0.68
5:1D:94:ASN:OD1	44:EG:26:LEU:HD13	1.92	0.68
25:1P:273:GLN:HA	44:TE:282:TYR:CZ	2.27	0.68
26:1R:411:VAL:CG1	44:EC:370:LYS:HD2	2.23	0.68
27:1W:118:GLY:HA3	45:LF:276:ARG:HH22	1.57	0.68
5:2D:6:ARG:NE	45:CJ:41:ASP:HB3	2.08	0.68
32:2I:32:PHE:HE1	45:GH:328:GLU:HB3	1.57	0.68
24:2O:264:ILE:HG12	44:VG:278:ALA:HB1	1.73	0.68
13:2T:74:ILE:HD11	44:MG:159:VAL:O	1.92	0.68
14:2U:226:ILE:HG23	44:WG:43:GLY:HA2	1.74	0.68
28:4C:4:TYR:CE2	45:LN:359:LYS:HD3	2.27	0.68
37:5B:108:ARG:HG3	44:KE:393:HIS:HE1	1.57	0.68
37:5D:43:CYS:HG	44:KK:346:TRP:HE3	1.24	0.68
38:5E:123:ARG:NE	44:OA:370:LYS:HD3	2.08	0.68
38:5F:134:ILE:HB	45:OH:224:ASP:OD1	1.92	0.68
38:5F:154:TYR:CZ	45:NH:35:THR:HG23	2.28	0.68
38:5G:209:ARG:HD3	44:LK:427:ALA:HB1	1.74	0.68
39:5I:112:PRO:HB3	45:ND:309:ARG:NH1	2.08	0.68
35:5R:477:ASN:HA	35:5R:485:TYR:CE1	2.29	0.68
35:5R:567:ASN:O	35:5R:571:VAL:HG13	1.94	0.68
41:6G:142:THR:OG1	44:UI:120:ASP:OD2	2.09	0.68
35:7R:70:ARG:NH1	35:7R:70:ARG:HA	2.08	0.68
35:7R:139:ILE:HG12	45:BD:277:GLY:HA2	1.73	0.68
35:7R:170:ASN:OD1	35:7R:179:ARG:HD3	1.92	0.68
45:AB:321:MET:HE3	45:AB:363:MET:SD	2.32	0.68
44:AC:188:ILE:HD12	44:AC:425:LEU:CD2	2.23	0.68
45:AD:371:SER:O	45:AD:422:TYR:OH	2.10	0.68
44:AE:260:VAL:HG23	45:AH:397:TRP:HZ2	1.56	0.68
45:AF:242:PHE:CG	45:AF:356:ILE:HG13	2.28	0.68
44:AI:155:GLU:HA	44:AI:197:HIS:CE1	2.27	0.68
45:AL:189:VAL:HG11	45:AL:415:MET:HE2	1.74	0.68
44:AM:105:ARG:HG2	44:AM:411:GLU:HG3	1.75	0.68
44:BA:326:LYS:HZ2	45:BD:219:THR:HB	1.57	0.68
44:BC:151:SER:O	44:BC:155:GLU:N	2.20	0.68
44:BC:222:PRO:CD	45:BD:324:LYS:HD3	2.23	0.68
44:BG:141:VAL:HG11	44:BG:172:TYR:CE1	2.28	0.68
44:BG:257:THR:HA	45:BJ:397:TRP:NE1	2.08	0.68
45:BH:221:THR:HG23	45:BH:224:ASP:H	1.58	0.68
44:BI:98:ASP:OD1	44:BI:99:ALA:N	2.26	0.68
45:BJ:270:PHE:HD2	45:BJ:273:LEU:HD21	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:329:GLN:O	45:CF:333:VAL:HG23	1.93	0.68
44:CI:228:ASN:O	44:CI:231:ILE:HG22	1.93	0.68
44:DA:8:HIS:CE1	44:DA:65:ALA:HB1	2.28	0.68
45:DB:252:LYS:HA	44:DC:100:ALA:HB1	1.75	0.68
45:DD:5:VAL:HG12	45:DD:62:ARG:CD	2.24	0.68
44:DE:53:PHE:O	44:DE:64:ARG:NE	2.21	0.68
44:DE:268:MET:HE1	44:DE:380:ASN:HB2	1.74	0.68
44:DG:21:TRP:CH2	44:DG:63:PRO:HB3	2.27	0.68
45:DJ:268:ILE:HG13	45:DJ:300:MET:CE	2.23	0.68
44:DK:258:ASN:HD21	44:DK:352:LYS:HE3	1.58	0.68
44:EC:68:LEU:HG	44:EC:93:ILE:HD13	1.76	0.68
44:EC:137:VAL:HG12	44:EC:167:LEU:O	1.92	0.68
45:ED:269:GLY:HA3	45:ED:298:ASN:O	1.93	0.68
45:EF:262:ARG:O	45:EF:263:LEU:HD23	1.92	0.68
44:EI:295:ALA:HB1	44:EI:377:MET:CE	2.20	0.68
45:EJ:42:LEU:CA	45:EJ:45:GLU:HG3	2.19	0.68
45:FB:208:TYR:CE1	45:FB:225:LEU:HD11	2.29	0.68
45:FB:318:ARG:CZ	45:FB:364:ALA:HB1	2.23	0.68
44:FC:254:GLU:HG2	45:FF:98:GLY:CA	2.23	0.68
45:FD:87:PRO:CG	45:GD:278:SER:HB2	2.23	0.68
45:FF:7:ILE:HB	45:FF:135:ILE:CD1	2.22	0.68
44:FI:332:ILE:HG22	44:FI:336:LYS:HZ1	1.58	0.68
44:FM:49:PHE:HD1	44:FM:53:PHE:HB2	1.57	0.68
44:FM:394:LYS:HA	44:FM:397:LEU:HD12	1.75	0.68
45:FN:325:GLU:O	45:FN:328:GLU:HG2	1.92	0.68
45:GB:206:ALA:O	45:GB:210:ILE:N	2.23	0.68
44:GE:284:GLU:HG3	44:GE:286:LEU:CD2	2.23	0.68
44:GI:183:GLU:HG2	44:GI:184:PRO:HD3	1.75	0.68
44:GK:237:SER:HA	44:GK:320:ARG:NH1	2.08	0.68
44:GM:241:SER:OG	44:GM:250:VAL:O	2.02	0.68
45:GN:139:LEU:HD21	45:GN:185:ALA:HA	1.73	0.68
45:HB:5:VAL:HG12	45:HB:62:ARG:CD	2.22	0.68
45:HD:316:LEU:HD13	45:HD:352:SER:HB2	1.75	0.68
44:HG:420:GLU:O	44:HG:423:GLU:HG2	1.92	0.68
44:HI:17:GLY:HA2	44:HI:20:CYS:SG	2.33	0.68
45:IB:132:GLY:HA3	45:IB:163:ILE:HG13	1.75	0.68
44:IE:284:GLU:HG3	44:IE:286:LEU:HD22	1.73	0.68
44:II:346:TRP:HD1	45:IL:391:ARG:HH22	1.41	0.68
45:IL:121:ARG:HH11	45:IL:121:ARG:HB2	1.58	0.68
44:IM:161:TYR:O	44:IM:164:LYS:NZ	2.14	0.68
44:JA:141:VAL:HG13	44:JA:190:SER:OG	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:335:ILE:HG13	44:JC:338:LYS:HZ3	1.57	0.68
45:JJ:247:ASN:O	45:JJ:252:LYS:NZ	2.22	0.68
45:JJ:322:SER:OG	45:JJ:325:GLU:OE1	2.06	0.68
44:JK:209:ILE:CG2	44:JK:227:LEU:HG	2.23	0.68
44:JK:254:GLU:HG2	45:JN:98:GLY:HA2	1.73	0.68
44:JK:265:ILE:HG23	44:JK:432:TYR:OH	1.92	0.68
44:JK:285:GLN:OE1	44:JK:287:SER:HB2	1.93	0.68
44:KG:71:GLU:OE1	45:KH:247:ASN:ND2	2.26	0.68
45:KJ:293:MET:CE	45:KJ:367:PHE:HB3	2.23	0.68
45:KL:207:LEU:O	45:KL:210:ILE:HG22	1.92	0.68
45:KL:238:CYS:CB	45:KL:318:ARG:HD3	2.23	0.68
45:LB:112:LEU:O	45:LB:112:LEU:HD23	1.92	0.68
45:LB:166:THR:O	45:LB:199:CYS:HA	1.93	0.68
45:LJ:108:GLU:O	45:LJ:111:GLU:HG2	1.93	0.68
45:LL:116:VAL:O	45:LL:119:VAL:HG22	1.92	0.68
44:LM:174:SER:HB2	44:LM:177:VAL:O	1.93	0.68
45:LN:392:LYS:O	45:LN:392:LYS:HD3	1.93	0.68
45:MB:60:VAL:HG21	45:MB:86:ARG:HD2	1.75	0.68
45:MB:220:PRO:HA	45:MB:224:ASP:OD2	1.92	0.68
45:MB:330:MET:CG	45:MB:349:ILE:HG21	2.23	0.68
44:MC:141:VAL:HG11	44:MC:172:TYR:CD1	2.28	0.68
44:ME:102:ASN:ND2	44:ME:105:ARG:HG3	2.08	0.68
44:NC:259:LEU:HD11	44:NC:316:SER:CB	2.20	0.68
45:ND:22:GLU:HG2	45:ND:81:PHE:CB	2.22	0.68
45:NF:143:THR:O	45:NF:147:MET:HB3	1.93	0.68
45:NH:105:HIS:CE1	45:NH:150:LEU:HD12	2.28	0.68
44:NI:70:LEU:HD11	44:NI:149:LEU:HD21	1.73	0.68
45:OB:101:TRP:CE3	45:OB:187:LEU:HD13	2.28	0.68
44:OC:251:ASP:O	44:OC:254:GLU:N	2.26	0.68
44:OC:261:PRO:HG3	44:OC:313:MET:SD	2.33	0.68
44:OE:231:ILE:HA	44:OE:234:VAL:HB	1.74	0.68
44:OG:16:VAL:HG12	44:OG:20:CYS:SG	2.34	0.68
44:OG:17:GLY:O	44:OG:20:CYS:N	2.26	0.68
45:OH:34:GLY:O	45:OH:58:ARG:HA	1.93	0.68
45:OJ:20:PHE:HE1	45:OJ:233:MET:HG3	1.58	0.68
44:OK:119:LEU:HA	44:OK:122:ILE:HD12	1.74	0.68
45:OL:3:GLU:HG3	45:OL:62:ARG:NH1	2.09	0.68
45:ON:233:MET:HA	45:ON:236:VAL:HG23	1.74	0.68
44:PA:284:GLU:HG3	44:PA:286:LEU:HD22	1.75	0.68
45:PB:40:SER:OG	45:PB:43:GLN:NE2	2.25	0.68
45:PF:12:CYS:HB3	45:PF:138:SER:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:261:PRO:HB3	45:PN:394:PHE:CE1	2.28	0.68
44:PK:286:LEU:HA	44:PK:290:GLU:OE2	1.92	0.68
45:PN:141:GLY:HA2	48:PN:501:GDP:PA	2.33	0.68
45:QB:47:ILE:HG12	45:QB:51:TYR:HB2	1.75	0.68
44:QG:372:MET:O	44:QG:373:ARG:HD3	1.94	0.68
44:QI:112:LYS:O	44:QI:115:VAL:HG12	1.92	0.68
44:QI:269:LEU:HD23	44:QI:269:LEU:H	1.58	0.68
45:QL:21:TRP:HA	45:QL:24:ILE:HG22	1.75	0.68
45:QL:147:MET:O	45:QL:151:LEU:HD23	1.93	0.68
44:QM:315:CYS:N	44:QM:350:GLY:O	2.26	0.68
44:QM:325:PRO:HG2	45:QN:222:TYR:CE2	2.28	0.68
45:QN:135:ILE:CB	45:QN:166:THR:HG22	2.23	0.68
44:RC:284:GLU:HG3	44:RC:286:LEU:HD22	1.75	0.68
44:RE:390:ARG:O	44:RE:394:LYS:N	2.18	0.68
44:RE:416:GLY:O	44:RE:419:SER:OG	2.08	0.68
45:RH:407:GLU:O	45:RH:411:ALA:N	2.19	0.68
45:RJ:383:GLU:HA	45:RJ:386:THR:HG22	1.75	0.68
44:RK:259:LEU:HD22	44:RK:268:MET:CE	2.23	0.68
45:RL:110:ALA:O	45:RL:113:ILE:HG22	1.93	0.68
45:RN:286:VAL:CB	45:RN:287:PRO:HD3	2.23	0.68
45:RN:290:THR:HA	45:RN:293:MET:HG2	1.74	0.68
44:SA:257:THR:HA	45:SB:397:TRP:NE1	2.08	0.68
45:SB:184:ASN:OD1	45:SB:185:ALA:N	2.26	0.68
45:SB:305:PRO:HA	45:SB:377:MET:HE2	1.74	0.68
44:SG:207:GLU:OE1	44:SG:304:LYS:NZ	2.18	0.68
45:SJ:69:GLU:OE1	45:SJ:71:GLY:N	2.25	0.68
45:SJ:177:ASP:N	45:SJ:181:GLU:OE2	2.21	0.68
44:SK:326:LYS:HE2	45:SL:220:PRO:HD2	1.75	0.68
45:SL:54:ALA:CA	45:TL:283:ALA:HB2	2.23	0.68
44:SM:91:GLN:NE2	44:SM:125:LEU:HD11	2.07	0.68
45:TB:386:THR:O	45:TB:390:ARG:N	2.20	0.68
45:TD:4:ILE:HG22	45:TD:132:GLY:H	1.57	0.68
45:TD:12:CYS:O	45:TD:16:ILE:HG12	1.93	0.68
45:TD:202:ILE:HD11	45:TD:268:ILE:HD11	1.76	0.68
45:TD:288:GLU:O	45:TD:291:GLN:HG3	1.93	0.68
45:TF:398:TYR:O	45:TF:403:MET:HB2	1.92	0.68
44:TI:141:VAL:HG12	44:TI:171:ILE:O	1.93	0.68
44:TI:217:LEU:HD22	44:TI:367:ASP:HB3	1.75	0.68
45:TJ:2:ARG:HB2	45:TJ:131:GLN:OE1	1.92	0.68
44:TK:75:ILE:HG23	44:TK:92:LEU:HD11	1.75	0.68
44:UC:189:LEU:HD11	44:UC:418:PHE:CE2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:322:SER:OG	44:UE:223:THR:HB	1.93	0.68
45:UD:322:SER:HB2	44:UE:221:ARG:CD	2.23	0.68
44:UE:91:GLN:O	44:UE:93:ILE:HD12	1.94	0.68
45:UF:7:ILE:O	45:UF:135:ILE:HG23	1.92	0.68
44:UG:188:ILE:HG13	44:UG:395:PHE:HB2	1.74	0.68
44:UK:74:VAL:O	44:UK:78:VAL:N	2.26	0.68
45:UL:292:GLN:OE1	45:UL:298:ASN:HB2	1.93	0.68
44:UM:257:THR:HG22	45:UN:397:TRP:CE2	2.28	0.68
45:UN:269:GLY:HA2	45:UN:300:MET:CG	2.18	0.68
44:VC:99:ALA:HB2	44:VC:145:THR:HB	1.75	0.68
45:VD:341:PHE:HB3	45:VD:348:ASN:HD21	1.58	0.68
44:VG:420:GLU:O	44:VG:424:ASP:N	2.23	0.68
45:VH:285:THR:H	45:VH:288:GLU:HB2	1.58	0.68
44:VI:88:HIS:HB3	44:VI:91:GLN:HG2	1.75	0.68
45:VJ:314:SER:HA	45:VJ:350:LYS:HB3	1.74	0.68
44:VM:145:THR:HG22	46:VM:501:GTP:PG	2.33	0.68
44:WG:295:ALA:HB1	44:WG:377:MET:HE1	1.74	0.68
44:WI:222:PRO:HG2	45:WJ:324:LYS:HD3	1.75	0.68
45:WL:286:VAL:HG12	45:WL:329:GLN:OE1	1.93	0.68
1:6H:266:LYS:NZ	44:FE:364:PRO:HD2	2.07	0.68
15:0V:74:VAL:HA	45:MN:306:ARG:CD	2.22	0.68
10:1N:249:LEU:HD21	45:KJ:90:PHE:HD1	1.57	0.68
25:1P:138:ILE:HD11	45:TJ:33:THR:HG21	1.75	0.68
27:1W:161:ASN:HD21	45:LD:284:LEU:HD12	1.56	0.68
2:3A:53:HIS:HB2	44:MM:84:ARG:NH1	2.08	0.68
32:3I:251:TYR:HA	44:FI:96:LYS:HE3	1.74	0.68
37:5C:102:TYR:CE2	44:KI:394:LYS:HE2	2.13	0.68
38:5G:113:LEU:HD12	38:5G:114:PRO:HD2	1.75	0.68
36:5S:180:VAL:CG1	36:5S:181:PRO:HD3	2.23	0.68
41:6G:275:TYR:HD2	41:6G:283:GLY:HA3	1.59	0.68
35:6R:246:GLN:HE21	44:BM:58:ALA:C	1.96	0.68
35:6R:436:GLU:OE1	45:FN:280:GLN:HG3	1.91	0.68
35:7R:188:LYS:O	35:7R:192:VAL:HG13	1.92	0.68
44:AA:384:ILE:O	44:AA:387:VAL:HG12	1.92	0.68
44:AC:102:ASN:HB3	44:AC:105:ARG:HB2	1.74	0.68
44:AC:271:SER:OG	44:AC:301:MET:HA	1.93	0.68
44:AE:398:MET:HE2	45:AF:346:PRO:HD2	1.74	0.68
45:AF:207:LEU:HD21	45:AF:300:MET:SD	2.33	0.68
44:AK:135:PHE:O	44:AK:136:LEU:HD23	1.93	0.68
44:AK:332:ILE:O	44:AK:335:ILE:HG22	1.93	0.68
45:AL:193:VAL:HA	45:AL:264:HIS:HE1	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:330:ALA:O	44:AM:334:THR:HG23	1.92	0.68
45:BB:226:ASN:HD21	48:BB:501:GDP:HN1	1.42	0.68
44:BE:356:ASN:OD1	44:BE:357:TYR:N	2.24	0.68
45:BF:372:THR:HA	45:BF:422:TYR:CE2	2.21	0.68
45:BH:100:ASN:HB3	45:BH:103:LYS:CB	2.23	0.68
44:BK:221:ARG:NH1	45:BL:325:GLU:HB3	2.08	0.68
45:BL:217:LEU:HD11	45:BL:220:PRO:HG3	1.75	0.68
45:BN:133:PHE:H	45:BN:164:MET:HE1	1.58	0.68
45:BN:341:PHE:HD2	45:BN:348:ASN:HD21	1.41	0.68
44:CA:171:ILE:HD11	44:CA:231:ILE:HD13	1.75	0.68
44:CA:327:ASP:O	44:CA:331:SER:N	2.20	0.68
45:CB:248:SER:CA	45:CB:252:LYS:HG3	2.21	0.68
44:CC:356:ASN:OD1	44:CC:357:TYR:N	2.26	0.68
45:CF:238:CYS:SG	45:CF:318:ARG:NE	2.66	0.68
44:CK:150:GLY:O	44:CK:154:LEU:HD23	1.93	0.68
45:CL:202:ILE:HD13	45:CL:229:VAL:HG22	1.73	0.68
45:CN:211:CYS:SG	45:CN:215:LEU:HD12	2.34	0.68
45:DB:113:ILE:HD11	45:DB:154:LYS:HD3	1.75	0.68
44:DC:254:GLU:HG2	45:DD:98:GLY:CA	2.12	0.68
44:DC:434:GLU:O	44:DC:437:ILE:HG12	1.93	0.68
44:DG:88:HIS:HB3	44:DG:91:GLN:HG2	1.75	0.68
45:DH:22:GLU:HG2	45:DH:81:PHE:CD2	2.28	0.68
45:DH:294:PHE:CD2	45:DH:333:VAL:HG11	2.29	0.68
44:DI:261:PRO:HA	45:DJ:394:PHE:CE1	2.27	0.68
44:DM:141:VAL:HG11	44:DM:172:TYR:CD1	2.28	0.68
45:ED:5:VAL:HG12	45:ED:62:ARG:CD	2.22	0.68
45:EF:306:ARG:HA	45:EF:340:TYR:HE1	1.57	0.68
44:EM:7:ILE:HG23	44:EM:66:VAL:HG21	1.75	0.68
45:EN:113:ILE:CA	45:EN:116:VAL:HG12	2.19	0.68
44:FA:317:MET:O	44:FA:353:VAL:HA	1.92	0.68
45:FB:262:ARG:O	45:FB:264:HIS:ND1	2.24	0.68
44:FE:384:ILE:O	44:FE:387:VAL:HG22	1.94	0.68
45:FH:257:LEU:HD21	45:FH:314:SER:HB3	1.76	0.68
44:FI:371:VAL:HG12	44:FI:373:ARG:H	1.58	0.68
45:FL:251:ARG:O	45:FL:255:VAL:HG23	1.92	0.68
45:FN:110:ALA:HA	45:FN:113:ILE:CG2	2.23	0.68
45:FN:412:GLU:O	45:FN:416:ASN:N	2.23	0.68
45:GB:207:LEU:HD13	45:GB:225:LEU:HB3	1.75	0.68
44:GE:22:GLU:HG3	44:GE:83:TYR:HE2	1.56	0.68
44:GG:11:GLN:OE1	45:GH:246:LEU:HA	1.93	0.68
44:GG:76:ASP:OD1	44:GG:79:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:318:MET:N	44:GM:376:CYS:O	2.24	0.68
44:HA:252:ILE:HA	44:HA:255:PHE:CE2	2.28	0.68
44:HA:298:PRO:HG3	44:HA:308:ARG:NH1	2.08	0.68
44:HA:319:TYR:CD2	44:HA:323:VAL:HG21	2.28	0.68
45:HB:232:ALA:O	45:HB:235:GLY:N	2.23	0.68
45:HD:47:ILE:HD13	45:HD:59:TYR:CE2	2.29	0.68
45:HF:341:PHE:HD2	45:HF:348:ASN:HD21	1.41	0.68
44:HG:188:ILE:HD12	44:HG:425:LEU:CD1	2.23	0.68
44:HI:188:ILE:HD11	44:HI:425:LEU:HG	1.74	0.68
44:HM:19:ALA:HA	44:HM:22:GLU:OE1	1.94	0.68
44:HM:121:ARG:HH12	44:HM:124:LYS:HD2	1.58	0.68
44:IA:143:GLY:O	44:IA:147:SER:OG	2.07	0.68
44:IG:200:VAL:HG13	44:IG:268:MET:CE	2.23	0.68
45:IH:294:PHE:HE2	45:IH:333:VAL:HG11	1.59	0.68
44:IM:22:GLU:O	44:IM:26:LEU:N	2.21	0.68
44:JA:209:ILE:HG12	44:JA:302:MET:HE3	1.74	0.68
45:JB:323:THR:O	45:JB:326:VAL:HG12	1.92	0.68
44:JE:141:VAL:HG11	44:JE:187:SER:HA	1.75	0.68
44:JG:105:ARG:HH12	45:JH:251:ARG:NH1	1.91	0.68
44:JG:254:GLU:CG	45:JJ:98:GLY:HA2	2.23	0.68
44:JG:270:SER:O	44:JG:302:MET:HB2	1.92	0.68
45:JH:398:TYR:O	45:JH:403:MET:HB2	1.93	0.68
45:JJ:105:HIS:CE1	45:JJ:150:LEU:HD13	2.28	0.68
44:JK:28:HIS:HB3	44:JK:36:MET:HE1	1.75	0.68
44:JK:132:LEU:HD23	44:JK:164:LYS:HZ3	1.56	0.68
44:JK:265:ILE:CD1	44:JK:435:VAL:HG21	2.23	0.68
45:KB:63:ALA:O	45:KB:89:ASN:ND2	2.19	0.68
44:KC:384:ILE:O	44:KC:387:VAL:HG22	1.93	0.68
44:KI:31:GLN:HE21	44:KI:37:PRO:HB3	1.58	0.68
45:KJ:287:PRO:HA	45:KJ:290:THR:HG22	1.74	0.68
44:KM:4:VAL:HG23	44:KM:134:GLY:O	1.93	0.68
44:KM:5:ILE:HG23	44:KM:125:LEU:HD23	1.75	0.68
44:KM:251:ASP:HB2	44:KM:254:GLU:OE1	1.93	0.68
44:KM:340:THR:HG23	44:KM:341:ILE:HG12	1.74	0.68
44:LC:210:TYR:HB3	44:LC:214:ARG:NH1	2.08	0.68
44:LE:258:ASN:O	44:LE:259:LEU:HD22	1.93	0.68
45:LH:105:HIS:CE1	45:LH:150:LEU:HD12	2.28	0.68
45:LJ:167:PHE:CZ	45:LJ:233:MET:HG2	2.27	0.68
45:LJ:268:ILE:HG13	45:LJ:300:MET:CE	2.23	0.68
45:LN:286:VAL:HG21	45:LN:325:GLU:HG2	1.74	0.68
45:MB:113:ILE:HD13	45:MB:150:LEU:HD22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MC:105:ARG:O	44:MC:110:ILE:HG22	1.94	0.68
45:MF:318:ARG:NH1	45:MF:358:PRO:HG3	2.08	0.68
45:MH:139:LEU:HD23	45:MH:168:SER:HB3	1.75	0.68
44:NA:261:PRO:HA	45:ND:394:PHE:CE1	2.23	0.68
45:NF:172:SER:CB	45:NF:205:GLU:HG2	2.23	0.68
45:NH:285:THR:N	45:NH:288:GLU:OE2	2.20	0.68
45:NL:191:GLN:O	45:NL:195:ASN:ND2	2.25	0.68
44:NM:291:ILE:HG21	44:NM:373:ARG:CD	2.22	0.68
44:OE:217:LEU:HB3	44:OE:219:ILE:HG12	1.75	0.68
44:OE:319:TYR:CE2	44:OE:328:VAL:HG22	2.28	0.68
45:OF:36:TYR:CZ	45:OF:44:LEU:HD21	2.28	0.68
44:OI:109:THR:HG21	44:OI:411:GLU:HB3	1.74	0.68
45:OJ:110:ALA:HA	45:OJ:113:ILE:HG22	1.75	0.68
45:OJ:237:THR:OG1	45:OJ:240:LEU:HB3	1.93	0.68
44:PC:250:VAL:HG22	44:PC:352:LYS:HE3	1.75	0.68
45:PD:106:TYR:CE2	45:PD:403:MET:HE2	2.28	0.68
45:PF:86:ARG:NH1	45:QD:278:SER:HA	2.08	0.68
44:PG:135:PHE:O	44:PG:167:LEU:HG	1.92	0.68
44:PG:189:LEU:HD11	44:PG:413:MET:HE1	1.74	0.68
44:PG:271:SER:HB2	44:PG:377:MET:HE2	1.75	0.68
45:PH:207:LEU:HD13	45:PH:225:LEU:HD22	1.74	0.68
45:PJ:130:LEU:HD22	45:PJ:162:ARG:CG	2.24	0.68
44:PK:395:PHE:CE1	44:PK:422:ARG:HD3	2.28	0.68
44:PK:404:PHE:CE1	45:PL:259:PRO:HA	2.28	0.68
44:QA:75:ILE:HG13	44:QA:94:SER:CB	2.19	0.68
44:QC:11:GLN:NE2	46:QC:501:GTP:O1B	2.25	0.68
44:QC:141:VAL:HG12	44:QC:171:ILE:O	1.92	0.68
44:QE:328:VAL:O	44:QE:332:ILE:HG12	1.94	0.68
44:QG:242:LEU:HD11	44:QG:252:ILE:H	1.58	0.68
44:QI:88:HIS:CE1	44:QI:90:GLU:HG2	2.27	0.68
44:QI:118:CYS:SG	44:QI:153:LEU:HD22	2.34	0.68
44:QK:318:MET:O	44:QK:375:VAL:HG23	1.93	0.68
44:RA:171:ILE:HG23	44:RA:204:LEU:O	1.92	0.68
44:RA:268:MET:HB2	44:RA:379:SER:O	1.92	0.68
45:RB:2:ARG:NH2	45:RB:240:LEU:HG	2.09	0.68
45:RB:64:ILE:HG23	45:RB:89:ASN:HB3	1.76	0.68
44:RC:280:LYS:HA	44:RC:283:HIS:CD2	2.28	0.68
45:RD:200:MET:HE1	45:RD:268:ILE:HG23	1.74	0.68
44:RE:75:ILE:HG13	44:RE:94:SER:CB	2.21	0.68
44:RE:307:PRO:HA	44:RE:383:ALA:HB2	1.74	0.68
45:RH:257:LEU:HB3	45:RH:266:PHE:HE2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:322:SER:O	44:RI:221:ARG:NH1	2.27	0.68
44:SA:274:PRO:CD	44:SA:374:ALA:HA	2.23	0.68
44:SE:271:SER:O	44:SE:377:MET:HG2	1.94	0.68
45:SF:2:ARG:NH2	45:SF:240:LEU:O	2.26	0.68
45:SF:4:ILE:HG22	45:SF:132:GLY:H	1.58	0.68
45:SL:341:PHE:HE2	45:SL:349:ILE:HD11	1.58	0.68
44:SM:105:ARG:O	44:SM:110:ILE:N	2.18	0.68
45:TB:287:PRO:O	45:TB:290:THR:HG22	1.93	0.68
44:TE:252:ILE:HA	44:TE:255:PHE:CE2	2.28	0.68
45:TF:159:TYR:HB3	45:TF:162:ARG:HG3	1.76	0.68
45:TH:323:THR:O	45:TH:327:ASP:N	2.25	0.68
44:TI:9:VAL:HG11	44:TI:153:LEU:CD1	2.22	0.68
45:TJ:34:GLY:O	45:TJ:58:ARG:HA	1.93	0.68
45:TJ:51:TYR:HE1	45:TJ:61:PRO:HG3	1.58	0.68
45:TJ:164:MET:SD	45:TJ:197:ASP:N	2.62	0.68
45:TJ:345:ILE:HA	44:TK:398:MET:SD	2.33	0.68
44:UA:1:MET:O	44:UA:131:GLY:HA3	1.93	0.68
45:UD:403:MET:HB2	45:UD:407:GLU:OE2	1.93	0.68
45:UF:27:GLU:HA	45:UF:359:LYS:HD2	1.74	0.68
45:UF:49:VAL:HG21	45:UF:241:ARG:HG2	1.75	0.68
45:UF:171:PRO:HG2	45:UF:181:GLU:CG	2.24	0.68
44:UI:71:GLU:OE1	44:UI:73:THR:N	2.26	0.68
45:UL:258:ILE:HG23	45:UL:263:LEU:O	1.93	0.68
45:UL:310:TYR:CD1	45:UL:371:SER:HB2	2.28	0.68
45:UL:325:GLU:CA	45:UL:328:GLU:HG2	2.22	0.68
44:UM:213:CYS:O	44:UM:217:LEU:N	2.26	0.68
44:UM:273:ALA:HB1	44:UM:274:PRO:HA	1.76	0.68
45:UN:304:ASP:OD1	45:UN:306:ARG:HG2	1.93	0.68
44:VA:261:PRO:HA	45:VD:394:PHE:CE2	2.27	0.68
45:VB:421:GLU:HA	45:VB:424:GLN:NE2	2.08	0.68
44:VC:187:SER:O	44:VC:190:SER:OG	2.05	0.68
44:VC:276:ILE:HG23	44:VC:281:ALA:CB	2.23	0.68
45:VD:282:ARG:NH2	45:VD:292:GLN:OE1	2.24	0.68
45:VD:328:GLU:HA	45:VD:331:LEU:HB3	1.75	0.68
45:VJ:114:ASP:HA	45:VJ:117:LEU:HD21	1.75	0.68
44:VK:127:ASP:OD1	44:VK:128:ASN:N	2.25	0.68
44:WA:88:HIS:CE1	44:WA:90:GLU:HG2	2.28	0.68
45:WB:44:LEU:HD23	45:WB:47:ILE:HD12	1.76	0.68
45:WB:405:GLU:O	45:WB:409:THR:HG23	1.92	0.68
44:WC:77:GLU:HA	44:WC:80:THR:OG1	1.94	0.68
44:WC:222:PRO:HD2	45:WD:324:LYS:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:233:GLN:O	44:WC:236:SER:N	2.25	0.68
45:WD:310:TYR:CD1	45:WD:371:SER:HB2	2.28	0.68
45:WH:67:ASP:OD1	45:WH:68:LEU:N	2.25	0.68
44:WM:184:PRO:O	44:WM:188:ILE:HD12	1.92	0.68
44:WM:286:LEU:H	44:WM:373:ARG:NH2	1.91	0.68
44:WM:407:TRP:HH2	45:WN:258:ILE:HB	1.59	0.68
4:OC:121:LEU:CD1	44:DI:22:GLU:HG2	2.24	0.68
7:OF:78:THR:CG2	45:ED:42:LEU:HD21	2.23	0.68
8:1G:178:LYS:HD3	44:LA:329:ASN:O	1.90	0.68
17:2B:63:GLN:HE22	44:LK:84:ARG:NE	1.91	0.68
13:2T:147:PHE:CE1	45:MJ:106:TYR:HB3	2.27	0.68
28:3C:223:GLN:OE1	44:KA:219:ILE:HG12	1.92	0.68
16:3X:70:TYR:CE1	45:MN:362:LYS:HG3	2.28	0.68
28:4C:226:LYS:HD3	44:KM:220:GLU:OE2	1.94	0.68
28:4C:298:PRO:HB3	45:KN:357:PRO:HG2	1.76	0.68
37:5C:104:PRO:HB3	44:KI:390:ARG:HH22	1.58	0.68
37:5D:45:TYR:HA	44:KK:262:TYR:HH	1.56	0.68
11:5Q:37:ILE:O	11:5Q:46:VAL:HG12	1.93	0.68
11:5Q:121:MET:SD	11:5Q:122:PRO:HD2	2.34	0.68
35:5R:466:TRP:HZ3	45:EJ:77:ARG:HD3	1.58	0.68
36:5S:194:LYS:HA	36:5S:218:ILE:HD11	1.75	0.68
41:6G:249:TRP:CD1	45:VD:306:ARG:HD3	2.29	0.68
35:6R:246:GLN:HE21	44:BM:59:GLY:N	1.89	0.68
35:6R:294:ASN:ND2	45:DN:217:LEU:HD12	1.90	0.68
35:6R:401:VAL:CG2	45:EN:277:GLY:HA2	2.20	0.68
45:AD:32:PRO:HA	45:AD:84:LEU:HD11	1.75	0.68
45:AD:107:THR:HG21	45:AD:401:GLU:HB3	1.75	0.68
45:AD:403:MET:HE1	45:AD:408:PHE:CZ	2.28	0.68
45:AF:135:ILE:HG13	45:AF:152:ILE:HD11	1.75	0.68
45:AJ:117:LEU:HD12	45:AJ:120:VAL:CG1	2.23	0.68
45:AJ:222:TYR:O	45:AJ:226:ASN:ND2	2.22	0.68
45:AJ:281:TYR:OH	45:MJ:87:PRO:HG2	1.93	0.68
45:AL:222:TYR:O	45:AL:226:ASN:ND2	2.26	0.68
44:AM:137:VAL:HG12	44:AM:167:LEU:O	1.94	0.68
44:AM:141:VAL:CG1	44:AM:172:TYR:HA	2.23	0.68
45:AN:186:THR:HG23	45:AN:415:MET:SD	2.34	0.68
44:BC:356:ASN:OD1	44:BC:357:TYR:N	2.26	0.68
44:BG:145:THR:HG23	46:BG:501:GTP:PG	2.34	0.68
44:BI:433:GLU:O	44:BI:437:ILE:HG23	1.93	0.68
45:BJ:101:TRP:HD1	45:BJ:145:SER:HG	1.38	0.68
45:BJ:390:ARG:O	45:BJ:391:ARG:HD2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:55:THR:HG21	45:CJ:362:LYS:NZ	2.08	0.68
45:BL:203:ASP:O	45:BL:207:LEU:HD23	1.94	0.68
44:CA:282:TYR:OH	44:CA:370:LYS:HE3	1.93	0.68
45:CB:105:HIS:CD2	45:CB:150:LEU:HB2	2.29	0.68
44:CC:230:LEU:O	44:CC:234:VAL:HG23	1.92	0.68
44:CE:3:GLU:HB3	44:CE:64:ARG:NH1	2.09	0.68
45:CF:31:ASP:HB3	45:CF:32:PRO:CD	2.24	0.68
44:CG:276:ILE:CD1	44:CG:281:ALA:HA	2.23	0.68
45:CJ:86:ARG:NE	45:DJ:281:TYR:HA	2.08	0.68
45:CL:3:GLU:O	45:CL:131:GLN:HB3	1.93	0.68
45:CL:185:ALA:O	45:CL:189:VAL:HG23	1.93	0.68
45:CL:253:LEU:HD21	45:CL:316:LEU:CD2	2.23	0.68
45:CL:310:TYR:HB2	45:CL:341:PHE:HA	1.75	0.68
44:DA:315:CYS:N	44:DA:350:GLY:O	2.17	0.68
45:DD:135:ILE:HB	45:DD:166:THR:HG22	1.76	0.68
44:DG:425:LEU:HA	44:DG:428:LEU:CD2	2.22	0.68
44:DI:416:GLY:O	44:DI:419:SER:OG	2.07	0.68
44:DK:195:LEU:HD21	44:DK:424:ASP:OD2	1.92	0.68
44:DM:288:VAL:HG23	44:DM:373:ARG:HE	1.59	0.68
45:DN:230:SER:O	45:DN:234:SER:N	2.14	0.68
44:EC:326:LYS:HE2	45:ED:212:PHE:CZ	2.28	0.68
45:EF:318:ARG:NH1	45:EF:358:PRO:HG3	2.05	0.68
44:EG:198:THR:HG22	44:EG:199:ASP:N	2.08	0.68
45:EJ:183:TYR:HE2	45:EJ:394:PHE:HB2	1.57	0.68
45:EL:288:GLU:O	45:EL:291:GLN:HG3	1.93	0.68
45:EN:172:SER:HB3	45:EN:203:ASP:OD2	1.93	0.68
44:FC:223:THR:HB	45:FD:322:SER:CB	2.23	0.68
45:FD:139:LEU:HA	45:FD:145:SER:CB	2.23	0.68
44:FE:31:GLN:HG3	44:FE:32:PRO:CD	2.24	0.68
44:FE:69:ASP:OD1	44:FE:70:LEU:N	2.26	0.68
44:FE:225:THR:HA	44:FE:228:ASN:ND2	2.08	0.68
44:FI:305:CYS:O	44:FI:307:PRO:HD3	1.94	0.68
44:FK:155:GLU:HG2	44:FK:197:HIS:CD2	2.28	0.68
44:FK:254:GLU:CG	45:FN:98:GLY:HA2	2.18	0.68
44:FK:297:GLU:HG2	44:FK:298:PRO:HD2	1.74	0.68
44:FM:222:PRO:HD2	45:FN:324:LYS:HD3	1.73	0.68
44:FM:317:MET:HA	44:FM:377:MET:HA	1.75	0.68
45:FN:342:VAL:HG12	45:FN:348:ASN:ND2	2.08	0.68
45:GB:334:GLN:HA	45:GB:341:PHE:CE2	2.28	0.68
44:GC:222:PRO:CG	45:GD:324:LYS:HD3	2.23	0.68
45:GH:248:SER:HA	45:GH:252:LYS:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:251:ASP:OD2	44:GK:257:THR:HA	1.94	0.68
44:GM:223:THR:HA	45:GN:322:SER:HB2	1.75	0.68
45:HD:198:GLU:OE2	45:HD:254:ALA:HB2	1.92	0.68
44:HG:185:TYR:CZ	44:HG:398:MET:HE3	2.28	0.68
44:HG:203:MET:CE	44:HG:205:ASP:HB3	2.22	0.68
44:HG:334:THR:O	44:HG:337:THR:HG22	1.94	0.68
44:HI:253:THR:HA	44:HI:256:GLN:HE22	1.58	0.68
45:HL:44:LEU:O	45:HL:44:LEU:HD23	1.93	0.68
45:HN:178:THR:HG22	45:HN:179:VAL:N	2.09	0.68
45:IB:133:PHE:HB2	45:IB:164:MET:CG	2.24	0.68
45:ID:141:GLY:HA3	48:ID:502:GDP:O3A	1.92	0.68
45:IH:259:PRO:HG2	45:IH:311:LEU:CD2	2.23	0.68
45:IH:263:LEU:HD11	45:IH:422:TYR:CD1	2.28	0.68
45:IJ:114:ASP:OD1	45:IJ:115:SER:N	2.26	0.68
44:IK:89:PRO:HD3	45:JL:281:TYR:CZ	2.28	0.68
45:JB:51:TYR:HB3	45:JB:59:TYR:HB3	1.75	0.68
45:JD:8:GLN:NE2	45:JD:65:LEU:HG	2.09	0.68
45:JD:267:MET:SD	45:JD:371:SER:OG	2.49	0.68
45:JL:317:PHE:HB3	45:JL:321:MET:CE	2.23	0.68
45:KB:11:GLN:HG3	45:KB:72:THR:CG2	2.24	0.68
44:KC:51:THR:HG21	44:KC:243:ARG:CD	2.18	0.68
45:KD:235:GLY:HA3	45:KD:366:THR:HG21	1.74	0.68
44:KG:39:ASP:OD1	44:KG:40:LYS:HG3	1.93	0.68
44:KG:221:ARG:NH1	45:KH:328:GLU:OE2	2.25	0.68
44:KK:195:LEU:CD1	44:KK:265:ILE:HG22	2.23	0.68
44:LA:229:ARG:HD3	44:LA:363:VAL:HG11	1.76	0.68
44:LC:417:GLU:HA	44:LC:420:GLU:HG2	1.75	0.68
44:LM:422:ARG:NH1	44:LM:426:ALA:HB2	2.08	0.68
45:MD:2:ARG:HH12	45:MD:46:ARG:HD2	1.57	0.68
45:MF:299:MET:HE3	45:MF:300:MET:H	1.56	0.68
45:MH:286:VAL:HB	45:MH:325:GLU:OE2	1.92	0.68
44:MI:22:GLU:HA	44:MI:25:CYS:HB2	1.74	0.68
44:MI:282:TYR:OH	44:MI:370:LYS:N	2.27	0.68
45:MJ:192:LEU:HD12	45:MJ:196:ALA:HB2	1.76	0.68
44:MK:68:LEU:HD11	44:MK:118:CYS:SG	2.33	0.68
44:MK:305:CYS:SG	44:MK:387:VAL:HG13	2.34	0.68
45:ML:22:GLU:HG2	45:ML:81:PHE:HD2	1.58	0.68
45:MN:60:VAL:CG2	45:MN:86:ARG:HD2	2.24	0.68
45:MN:383:GLU:O	45:MN:386:THR:HG22	1.92	0.68
45:NB:192:LEU:HG	45:NB:196:ALA:CB	2.24	0.68
44:NC:317:MET:HE3	44:NC:377:MET:SD	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:264:ARG:O	44:NE:266:HIS:ND1	2.26	0.68
45:NN:222:TYR:HB3	48:NN:501:GDP:O6	1.93	0.68
45:NN:269:GLY:HA2	45:NN:300:MET:CE	2.23	0.68
44:OE:202:VAL:HA	44:OE:268:MET:O	1.92	0.68
45:OF:247:ASN:O	45:OF:252:LYS:NZ	2.21	0.68
44:OI:105:ARG:O	44:OI:110:ILE:HG22	1.94	0.68
45:OL:101:TRP:HE1	45:OL:146:GLY:HA2	1.59	0.68
45:PB:193:VAL:CG2	45:PB:418:LEU:HD22	2.23	0.68
44:PC:185:TYR:OH	44:PC:403:ALA:O	2.10	0.68
44:PE:173:PRO:HG2	44:PE:391:LEU:HD11	1.75	0.68
44:PE:248:LEU:CD2	44:PE:354:GLY:HA2	2.24	0.68
45:PH:167:PHE:HE1	45:PH:200:MET:HE2	1.57	0.68
44:PI:185:TYR:OH	44:PI:398:MET:HG3	1.93	0.68
45:PN:293:MET:CG	45:PN:367:PHE:HB2	2.24	0.68
44:QC:68:LEU:HG	44:QC:93:ILE:CB	2.22	0.68
44:QE:320:ARG:HH12	44:QE:360:PRO:CA	2.06	0.68
45:QF:150:LEU:HD23	45:QF:154:LYS:HG3	1.76	0.68
45:QH:42:LEU:HA	45:QH:45:GLU:HG3	1.75	0.68
45:QH:345:ILE:O	45:QH:348:ASN:ND2	2.25	0.68
44:QI:108:TYR:CA	44:QI:112:LYS:HE3	2.23	0.68
45:RB:73:MET:CE	45:RB:92:PHE:HB3	2.23	0.68
44:RC:141:VAL:HG11	44:RC:172:TYR:HD1	1.59	0.68
44:RE:2:ARG:HD2	44:RE:242:LEU:O	1.94	0.68
45:RH:325:GLU:HB3	44:RI:221:ARG:NH1	2.08	0.68
44:RI:69:ASP:OD1	44:RI:71:GLU:N	2.18	0.68
44:RI:346:TRP:O	45:RJ:388:MET:HG3	1.94	0.68
45:RJ:285:THR:HG23	45:RJ:287:PRO:HD2	1.73	0.68
45:RL:253:LEU:O	45:RL:257:LEU:HD13	1.94	0.68
45:RL:326:VAL:HG12	45:RL:330:MET:CE	2.24	0.68
44:SA:276:ILE:CD1	44:SA:281:ALA:HA	2.23	0.68
45:SD:97:ALA:HA	45:SD:103:LYS:HD2	1.75	0.68
45:SD:323:THR:O	45:SD:326:VAL:N	2.26	0.68
44:SE:329:ASN:HB3	45:SF:175:VAL:HG12	1.74	0.68
44:SE:422:ARG:O	44:SE:426:ALA:N	2.25	0.68
44:SG:89:PRO:HG2	44:TG:280:LYS:CG	2.22	0.68
45:SH:72:THR:O	45:SH:76:VAL:HG13	1.93	0.68
45:SJ:36:TYR:CE2	45:SJ:44:LEU:HD11	2.28	0.68
45:SJ:135:ILE:O	45:SJ:167:PHE:N	2.26	0.68
45:SJ:207:LEU:HD13	45:SJ:225:LEU:HB3	1.75	0.68
45:SL:54:ALA:CB	45:TL:283:ALA:HB2	2.24	0.68
45:SL:309:ARG:NH2	45:SL:426:GLN:O	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:69:ASP:OD1	44:SM:71:GLU:N	2.26	0.68
44:SM:316:SER:HA	44:SM:352:LYS:O	1.93	0.68
45:SN:152:ILE:CD1	45:SN:164:MET:HE1	2.24	0.68
45:TB:246:LEU:CD1	45:TB:353:ILE:HD13	2.22	0.68
44:TC:223:THR:O	44:TC:227:LEU:HG	1.93	0.68
45:TD:2:ARG:NH2	45:TD:240:LEU:HG	2.08	0.68
45:TH:163:ILE:HG12	45:TH:251:ARG:NH1	2.09	0.68
45:TH:183:TYR:OH	45:TH:393:ALA:O	2.07	0.68
45:TH:268:ILE:HG22	45:TH:368:VAL:HG22	1.75	0.68
45:TJ:406:MET:O	45:TJ:410:GLU:HG3	1.93	0.68
44:TK:237:SER:HA	44:TK:320:ARG:NH1	2.08	0.68
45:TL:86:ARG:NH1	45:TL:87:PRO:HD2	2.07	0.68
45:TN:8:GLN:NE2	45:TN:14:ASN:HA	2.08	0.68
44:UA:4:VAL:HG12	44:UA:51:THR:HG22	1.76	0.68
44:UC:287:SER:O	44:UC:291:ILE:HG12	1.94	0.68
45:UD:217:LEU:HB3	45:UD:220:PRO:HG3	1.74	0.68
44:UE:34:GLY:O	44:UE:60:LYS:HA	1.93	0.68
45:UF:5:VAL:HG13	45:UF:130:LEU:CD1	2.18	0.68
44:UG:71:GLU:OE1	44:UG:73:THR:N	2.27	0.68
45:UH:173:PRO:HG2	45:UH:380:ARG:HD3	1.75	0.68
45:UH:234:SER:O	45:UH:238:CYS:N	2.26	0.68
44:UI:288:VAL:HG21	44:UI:323:VAL:HG23	1.75	0.68
45:UJ:139:LEU:CD1	45:UJ:168:SER:HB3	2.21	0.68
44:UK:101:ASN:HA	44:UK:144:GLY:HA2	1.76	0.68
45:UN:193:VAL:HG22	45:UN:262:ARG:NH1	2.08	0.68
44:VA:169:PHE:HZ	44:VA:238:LEU:HD13	1.58	0.68
44:VI:89:PRO:HG3	44:WI:280:LYS:CD	2.21	0.68
45:VJ:334:GLN:O	45:VJ:338:SER:OG	2.10	0.68
44:VM:106:GLY:O	44:VM:149:LEU:HD22	1.93	0.68
45:WD:134:GLN:HA	45:WD:165:GLU:O	1.92	0.68
45:WD:247:ASN:O	45:WD:252:LYS:NZ	2.19	0.68
45:WF:135:ILE:HG13	45:WF:152:ILE:HD11	1.75	0.68
45:WF:139:LEU:HD23	45:WF:185:ALA:HB1	1.74	0.68
45:WH:183:TYR:O	45:WH:186:THR:HG22	1.93	0.68
45:WJ:207:LEU:HD13	45:WJ:225:LEU:HB3	1.74	0.68
44:WK:66:VAL:HG12	44:WK:68:LEU:CD1	2.23	0.68
44:WK:76:ASP:OD1	44:WK:79:ARG:NH2	2.26	0.68
1:6H:293:ASP:HB3	45:FH:360:GLY:CA	1.84	0.68
16:2X:26:GLU:HA	45:ML:276:ARG:NH2	2.09	0.68
11:3Q:108:TYR:OH	44:AG:423:GLU:OE2	2.05	0.68
15:3V:117:PRO:HB2	45:LD:392:LYS:HD2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5K:45:LYS:HG2	44:JK:430:LYS:HE3	1.76	0.68
35:5R:446:PHE:HE2	35:5R:487:GLU:HA	1.57	0.68
35:5R:453:ILE:HD13	35:5R:498:LEU:CD1	2.20	0.68
35:5R:472:GLU:OE2	45:EJ:79:GLY:HA2	1.94	0.68
41:6G:237:PRO:HG3	44:UE:96:LYS:NZ	2.08	0.68
41:6G:265:LEU:HG	44:VA:339:ARG:HH11	1.59	0.68
41:6G:279:TYR:CE1	44:UC:96:LYS:HE3	2.27	0.68
35:6R:206:ASN:ND2	35:6R:210:GLU:OE1	2.23	0.68
42:8L:64:UNK:CB	45:SL:276:ARG:HD2	2.24	0.68
42:8L:345:UNK:O	42:8L:349:UNK:N	2.26	0.68
45:AB:377:MET:HA	45:AB:380:ARG:HG2	1.75	0.68
44:AC:80:THR:HA	44:AC:84:ARG:HH21	1.57	0.68
45:AD:404:ASP:O	45:AD:407:GLU:HG2	1.93	0.68
44:AG:53:PHE:O	44:AG:64:ARG:NH2	2.25	0.68
45:AJ:36:TYR:CD1	45:AJ:44:LEU:HD11	2.29	0.68
45:AN:7:ILE:HB	45:AN:135:ILE:HD13	1.74	0.68
45:AN:101:TRP:CE3	45:AN:187:LEU:HD13	2.28	0.68
44:BE:96:LYS:HA	45:BF:1:MET:HE2	1.74	0.68
45:BL:173:PRO:CG	45:BL:380:ARG:HD3	2.23	0.68
44:BM:91:GLN:NE2	44:BM:125:LEU:HD21	2.09	0.68
44:BM:288:VAL:HA	44:BM:291:ILE:HG12	1.76	0.68
45:CB:317:PHE:HB3	45:CB:321:MET:HE2	1.75	0.68
44:CE:127:ASP:OD1	44:CE:128:ASN:N	2.26	0.68
44:CG:70:LEU:HD13	44:CG:110:ILE:HD11	1.76	0.68
44:CG:326:LYS:HE2	45:CH:212:PHE:CZ	2.29	0.68
45:CH:77:ARG:HH11	45:CH:77:ARG:HG2	1.58	0.68
44:CK:420:GLU:O	44:CK:423:GLU:HG2	1.94	0.68
44:CM:183:GLU:CD	44:CM:184:PRO:HD3	2.14	0.68
44:CM:270:SER:HB3	44:CM:378:ILE:HD13	1.75	0.68
45:CN:420:SER:O	45:CN:423:GLN:NE2	2.26	0.68
45:DB:86:ARG:NH2	45:EB:278:SER:HA	2.08	0.68
45:DD:389:PHE:O	45:DD:392:LYS:HD3	1.93	0.68
44:DE:205:ASP:OD1	44:DE:303:ALA:HA	1.92	0.68
44:DE:252:ILE:HD12	44:DE:255:PHE:HD2	1.57	0.68
44:DI:136:LEU:CD2	44:DI:167:LEU:HB2	2.23	0.68
44:DI:271:SER:O	44:DI:377:MET:HG2	1.93	0.68
44:DI:324:VAL:HG21	45:DJ:219:THR:HB	1.74	0.68
45:DJ:7:ILE:HG12	45:DJ:64:ILE:HB	1.75	0.68
44:DM:377:MET:O	44:DM:378:ILE:HD13	1.93	0.68
44:EA:272:TYR:CD1	44:EA:376:CYS:HB2	2.28	0.68
44:EA:408:TYR:HB3	44:EA:413:MET:SD	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:324:LYS:HA	44:EC:210:TYR:CE2	2.28	0.68
44:EC:70:LEU:HD22	44:EC:114:ILE:HG21	1.76	0.68
44:EC:316:SER:HB3	44:EC:378:ILE:O	1.93	0.68
45:ED:257:LEU:HD11	45:ED:314:SER:CB	2.24	0.68
45:EF:130:LEU:O	45:EF:162:ARG:NH1	2.27	0.68
45:EJ:69:GLU:OE1	45:EJ:71:GLY:N	2.27	0.68
44:EM:30:ILE:HG23	44:EM:36:MET:HE2	1.75	0.68
44:EM:50:ASN:HA	44:EM:53:PHE:O	1.94	0.68
45:FB:419:VAL:O	45:FB:423:GLN:N	2.21	0.68
44:FC:284:GLU:HG3	44:FC:286:LEU:CD2	2.23	0.68
44:FE:68:LEU:HD21	44:FE:118:CYS:HB2	1.75	0.68
45:FF:288:GLU:O	45:FF:291:GLN:HG3	1.94	0.68
44:FI:102:ASN:ND2	44:FI:105:ARG:HG3	2.09	0.68
44:FI:221:ARG:HH12	45:FJ:325:GLU:H	1.41	0.68
44:FI:384:ILE:O	44:FI:387:VAL:HG22	1.94	0.68
44:FM:88:HIS:HB3	44:FM:91:GLN:CD	2.14	0.68
44:GE:276:ILE:HD11	44:GE:281:ALA:HA	1.74	0.68
44:GK:210:TYR:CD1	44:GK:227:LEU:HD21	2.28	0.68
45:GL:150:LEU:O	45:GL:153:SER:OG	2.12	0.68
45:GL:189:VAL:HG11	45:GL:415:MET:CE	2.24	0.68
44:GM:172:TYR:O	44:GM:205:ASP:HA	1.92	0.68
45:GN:384:GLN:O	45:GN:387:ALA:N	2.27	0.68
45:HB:110:ALA:O	45:HB:113:ILE:HG22	1.94	0.68
45:HB:208:TYR:OH	45:HB:225:LEU:HD11	1.94	0.68
45:HD:1:MET:O	45:HD:2:ARG:HG2	1.93	0.68
44:HM:261:PRO:HG2	44:HM:346:TRP:HH2	1.59	0.68
44:IA:284:GLU:HG3	44:IA:286:LEU:CD2	2.22	0.68
44:IA:317:MET:HA	44:IA:377:MET:HA	1.72	0.68
45:ID:135:ILE:HG22	45:ID:137:HIS:HD2	1.57	0.68
45:ID:274:THR:HB	45:ID:282:ARG:NH2	2.08	0.68
45:IJ:8:GLN:HG3	45:IJ:14:ASN:OD1	1.93	0.68
45:IJ:122:LYS:NZ	45:IJ:123:GLU:OE1	2.19	0.68
44:IK:292:THR:HG21	44:IK:331:SER:OG	1.93	0.68
45:IL:49:VAL:HG11	45:IL:241:ARG:HG2	1.76	0.68
45:IN:232:ALA:HB1	45:IN:268:ILE:HD12	1.74	0.68
45:JB:166:THR:OG1	45:JB:199:CYS:HA	1.94	0.68
45:JD:1:MET:O	45:JD:2:ARG:HG2	1.93	0.68
45:JF:2:ARG:HH12	45:JF:240:LEU:HG	1.58	0.68
45:JH:124:ALA:HB1	45:JH:130:LEU:HD11	1.76	0.68
44:JI:32:PRO:HB3	44:JI:83:TYR:HE1	1.58	0.68
44:JK:384:ILE:O	44:JK:387:VAL:HG22	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:105:HIS:CD2	45:JL:150:LEU:HB2	2.29	0.68
44:JM:213:CYS:SG	44:JM:219:ILE:HD12	2.34	0.68
44:KA:221:ARG:HE	45:KB:322:SER:CB	2.06	0.68
45:KB:19:LYS:NZ	45:KB:223:GLY:O	2.26	0.68
44:KC:205:ASP:OD2	44:KC:304:LYS:N	2.24	0.68
45:KF:11:GLN:HA	45:KF:72:THR:HG21	1.74	0.68
45:KH:139:LEU:CD1	45:KH:168:SER:HB3	2.24	0.68
44:KI:216:ASN:OD1	44:KI:217:LEU:N	2.27	0.68
44:KI:275:ILE:HG23	44:KI:368:LEU:CD1	2.23	0.68
44:KI:350:GLY:HA2	45:KL:179:VAL:HG23	1.73	0.68
44:KM:26:LEU:HD13	44:KM:363:VAL:HG23	1.74	0.68
45:KN:150:LEU:HD12	45:KN:153:SER:OG	1.93	0.68
44:LA:349:THR:HG21	45:LD:176:SER:CB	2.24	0.68
44:LC:13:GLY:O	44:LC:16:VAL:HG12	1.93	0.68
45:LD:242:PHE:CD2	45:LD:356:ILE:HB	2.25	0.68
45:LF:102:ALA:HB1	45:LF:401:GLU:HB2	1.76	0.68
44:LK:325:PRO:CG	45:LN:222:TYR:CE1	2.76	0.68
45:LN:122:LYS:NZ	45:MN:291:GLN:OE1	2.26	0.68
44:ME:161:TYR:HB3	44:ME:164:LYS:HE2	1.74	0.68
44:ME:287:SER:O	44:ME:291:ILE:HG23	1.94	0.68
45:MF:237:THR:CG2	45:MF:250:LEU:HD21	2.19	0.68
44:MM:417:GLU:O	44:MM:420:GLU:HG2	1.93	0.68
44:NA:354:GLY:O	44:NA:355:ILE:HD13	1.93	0.68
45:ND:13:GLY:HA2	45:ND:16:ILE:HD13	1.75	0.68
44:NK:101:ASN:HA	44:NK:144:GLY:H	1.59	0.68
44:NM:176:GLN:OE1	44:NM:176:GLN:N	2.27	0.68
45:OB:286:VAL:HG21	45:OB:321:MET:HE3	1.74	0.68
44:OC:288:VAL:HG11	44:OC:323:VAL:HG13	1.75	0.68
44:OK:292:THR:HG21	44:OK:331:SER:HB3	1.73	0.68
45:OL:236:VAL:HG23	45:OL:237:THR:HG23	1.74	0.68
44:PA:271:SER:HA	44:PA:302:MET:CE	2.22	0.68
44:PE:73:THR:HA	45:PF:46:ARG:NH2	2.07	0.68
45:PF:229:VAL:O	45:PF:233:MET:HG2	1.93	0.68
44:PK:316:SER:O	44:PK:378:ILE:N	2.25	0.68
44:PM:383:ALA:O	44:PM:386:GLU:HG2	1.94	0.68
45:PN:51:TYR:HB3	45:PN:59:TYR:HB3	1.75	0.68
45:PN:246:LEU:HD13	45:PN:353:ILE:HD13	1.75	0.68
44:QA:393:HIS:CE1	44:QA:397:LEU:HD11	2.29	0.68
44:QC:188:ILE:HG21	44:QC:422:ARG:HH12	1.56	0.68
44:QC:321:GLY:HA2	44:QC:359:PRO:HB3	1.76	0.68
44:QC:372:MET:HB2	44:QC:373:ARG:NH1	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:61:PRO:CG	45:QD:84:LEU:HG	2.24	0.68
45:QF:342:VAL:HG13	45:QF:345:ILE:HG22	1.75	0.68
44:QG:141:VAL:CG2	44:QG:187:SER:HA	2.23	0.68
44:QI:288:VAL:HA	44:QI:373:ARG:CZ	2.24	0.68
44:QK:247:ALA:HB3	44:QK:355:ILE:HG21	1.74	0.68
44:RA:271:SER:HA	44:RA:302:MET:SD	2.34	0.68
45:RB:318:ARG:HB3	45:RB:357:PRO:HA	1.74	0.68
44:RC:88:HIS:HB3	44:RC:91:GLN:CG	2.22	0.68
45:RH:406:MET:O	45:RH:410:GLU:N	2.27	0.68
44:RK:259:LEU:HB3	44:RK:268:MET:SD	2.34	0.68
45:SF:101:TRP:CE3	45:SF:187:LEU:HD13	2.28	0.68
45:SF:309:ARG:HG2	45:SF:340:TYR:CA	2.20	0.68
45:SJ:102:ALA:HB2	45:SJ:403:MET:HE2	1.75	0.68
45:SJ:198:GLU:OE2	45:SJ:254:ALA:HB2	1.93	0.68
44:SK:53:PHE:O	44:SK:64:ARG:NH2	2.25	0.68
44:SM:320:ARG:CB	44:SM:356:ASN:HB3	2.23	0.68
44:TA:169:PHE:HB3	44:TA:204:LEU:CD1	2.24	0.68
45:TD:350:LYS:HA	44:TE:180:ALA:HA	1.75	0.68
44:TE:188:ILE:HG13	44:TE:395:PHE:CG	2.28	0.68
45:TF:60:VAL:HG23	45:TF:84:LEU:O	1.93	0.68
45:TF:104:GLY:O	45:TF:147:MET:N	2.27	0.68
44:TG:420:GLU:O	44:TG:423:GLU:HG2	1.93	0.68
45:TH:253:LEU:HD21	45:TH:316:LEU:HD11	1.76	0.68
45:TH:255:VAL:HA	44:TI:407:TRP:CZ3	2.21	0.68
45:TL:86:ARG:HA	45:TL:86:ARG:NH1	2.08	0.68
44:TM:141:VAL:HG12	44:TM:171:ILE:O	1.93	0.68
45:TN:12:CYS:HB2	48:TN:501:GDP:C8	2.29	0.68
45:UH:3:GLU:HG3	45:UH:127:CYS:HB2	1.75	0.68
45:UH:287:PRO:O	45:UH:290:THR:HG22	1.93	0.68
44:UI:385:ALA:O	44:UI:389:SER:N	2.23	0.68
45:UL:262:ARG:NH1	45:UL:421:GLU:OE1	2.27	0.68
44:UM:387:VAL:HG12	44:UM:390:ARG:HH11	1.58	0.68
45:VB:192:LEU:CD1	45:VB:196:ALA:HB2	2.23	0.68
44:VC:332:ILE:HD12	44:VC:351:PHE:CD2	2.28	0.68
45:VD:178:THR:CG2	45:VD:180:VAL:HG12	2.21	0.68
45:VD:407:GLU:N	45:VD:407:GLU:OE1	2.22	0.68
44:VG:13:GLY:HA2	44:VG:16:VAL:HG12	1.74	0.68
44:VG:60:LYS:HD3	44:WG:283:HIS:NE2	2.08	0.68
44:VG:262:TYR:CE1	45:VJ:393:ALA:HA	2.28	0.68
45:VH:6:HIS:ND1	45:VH:134:GLN:HG3	2.07	0.68
44:VI:88:HIS:CE1	44:VI:90:GLU:HG2	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:287:SER:O	44:VI:291:ILE:HG23	1.93	0.68
44:VI:384:ILE:O	44:VI:387:VAL:HG22	1.92	0.68
45:VJ:272:PRO:HD3	45:VJ:364:ALA:HA	1.74	0.68
44:VK:181:VAL:HG12	45:VL:347:ASN:O	1.93	0.68
45:WB:33:THR:OG1	45:WB:35:THR:HG22	1.93	0.68
44:WC:101:ASN:OD1	45:WD:252:LYS:HG3	1.94	0.68
44:WE:202:VAL:HA	44:WE:268:MET:O	1.93	0.68
44:WI:73:THR:HA	45:WJ:46:ARG:HH21	1.58	0.68
45:WJ:65:LEU:HD22	45:WJ:90:PHE:HE1	1.59	0.68
44:WM:401:LYS:HD3	45:WN:344:TRP:HB3	1.75	0.68
8:OG:105:TYR:HE2	44:JM:81:GLY:HA3	1.55	0.68
5:1D:11:VAL:HG13	44:DG:280:LYS:HE3	1.73	0.68
20:1J:247:PRO:HA	44:II:219:ILE:HD11	1.74	0.68
22:1L:488:LYS:CE	45:BH:32:PRO:HB2	2.23	0.68
32:2I:22:LYS:HE2	44:GG:308:ARG:HG2	1.74	0.68
14:2U:139:ALA:CB	44:VG:42:ILE:HD13	2.23	0.68
26:3R:3:SER:CB	35:6R:55:ASP:O	2.42	0.68
37:5D:28:SER:HA	45:KN:393:ALA:CB	2.22	0.68
38:5G:22:LYS:HE3	38:5G:30:PRO:HD3	1.75	0.68
35:5R:28:THR:HB	44:LG:46:ASP:CB	2.24	0.68
35:5R:145:ILE:HG22	35:5R:146:LYS:O	1.93	0.68
35:5R:388:TYR:HA	45:EJ:276:ARG:NE	2.08	0.68
41:6G:235:ILE:O	41:6G:236:LEU:HD23	1.93	0.68
11:6Q:78:MET:HE3	11:6Q:80:ILE:CD1	2.15	0.68
35:6R:103:VAL:HG12	35:6R:110:ASN:C	2.13	0.68
35:6R:246:GLN:HE22	44:BM:59:GLY:CA	2.06	0.68
35:6R:392:GLY:HA2	45:EN:224:ASP:OD1	1.93	0.68
44:AA:14:ILE:O	44:AA:18:ASN:N	2.24	0.68
45:AB:21:TRP:CZ2	45:AB:63:ALA:HB2	2.28	0.68
45:AB:206:ALA:O	45:AB:210:ILE:HG13	1.93	0.68
44:AC:108:TYR:HA	44:AC:112:LYS:HE3	1.74	0.68
44:AE:222:PRO:CG	45:AF:324:LYS:HD3	2.24	0.68
44:AG:262:TYR:HB3	44:AG:263:PRO:HD2	1.74	0.68
44:AK:194:LEU:O	44:AK:194:LEU:HD23	1.94	0.68
45:AL:32:PRO:HG3	45:AL:81:PHE:CD1	2.28	0.68
44:BA:407:TRP:CE3	45:BB:255:VAL:HA	2.17	0.68
45:BD:259:PRO:HG3	45:BD:311:LEU:HD13	1.74	0.68
45:BD:342:VAL:HG23	45:BD:345:ILE:HG22	1.73	0.68
45:BH:295:ASP:OD1	45:BH:297:LYS:HG2	1.94	0.68
44:BI:356:ASN:OD1	44:BI:357:TYR:N	2.26	0.68
45:BL:198:GLU:OE2	45:BL:254:ALA:HB2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:55:GLU:HG3	44:BM:57:GLY:H	1.58	0.68
44:BM:175:PRO:CG	44:BM:304:LYS:HE3	2.18	0.68
44:BM:315:CYS:N	44:BM:350:GLY:O	2.14	0.68
44:BM:394:LYS:HZ3	45:BN:346:PRO:HG2	1.58	0.68
45:BN:149:THR:HA	45:BN:152:ILE:CD1	2.22	0.68
45:CB:403:MET:HG3	45:CB:407:GLU:OE2	1.94	0.68
44:CC:72:PRO:HG3	44:CC:95:GLY:O	1.93	0.68
45:CD:398:TYR:O	45:CD:403:MET:HB2	1.92	0.68
44:CE:324:VAL:HG12	44:CE:326:LYS:H	1.59	0.68
45:CF:7:ILE:CG2	45:CF:64:ILE:HD11	2.23	0.68
45:CJ:52:ASN:ND2	45:CJ:62:ARG:HD3	2.09	0.68
44:CK:359:PRO:O	44:CK:360:PRO:HA	1.94	0.68
45:CL:288:GLU:O	45:CL:291:GLN:HG3	1.93	0.68
44:CM:132:LEU:HD22	44:CM:164:LYS:HD2	1.75	0.68
44:DC:2:ARG:O	44:DC:51:THR:HA	1.93	0.68
45:DD:172:SER:HB2	45:DD:205:GLU:CD	2.14	0.68
45:DF:344:TRP:CZ3	45:DF:345:ILE:HB	2.28	0.68
44:DI:256:GLN:OE1	44:DI:256:GLN:N	2.25	0.68
44:DI:273:ALA:HB1	44:DI:274:PRO:HA	1.76	0.68
45:DJ:3:GLU:OE2	45:DJ:127:CYS:HB2	1.94	0.68
44:DM:89:PRO:HG3	44:EM:280:LYS:CE	2.23	0.68
44:DM:115:VAL:CG1	44:DM:156:ARG:HD2	2.23	0.68
44:EA:260:VAL:HB	45:EB:397:TRP:CZ2	2.28	0.68
44:EI:270:SER:O	44:EI:302:MET:HB3	1.94	0.68
45:EJ:173:PRO:CG	45:EJ:380:ARG:HD3	2.23	0.68
45:EL:217:LEU:HD11	45:EL:220:PRO:CG	2.23	0.68
45:FD:54:ALA:HB1	45:GD:282:ARG:O	1.93	0.68
44:FG:305:CYS:SG	44:FG:383:ALA:HB1	2.32	0.68
44:FI:24:PHE:HZ	44:FI:235:ILE:HG22	1.58	0.68
44:FI:261:PRO:HG2	44:FI:313:MET:SD	2.33	0.68
45:FJ:4:ILE:HD11	45:FJ:50:TYR:CZ	2.28	0.68
44:FK:3:GLU:HG2	44:FK:64:ARG:NH2	2.08	0.68
44:FM:75:ILE:HG13	44:FM:94:SER:HA	1.74	0.68
44:FM:76:ASP:OD1	44:FM:79:ARG:NH2	2.26	0.68
45:FN:318:ARG:HD3	45:FN:358:PRO:CD	2.24	0.68
44:GA:134:GLY:HA2	44:GA:164:LYS:HE3	1.75	0.68
45:GB:318:ARG:HH11	45:GB:358:PRO:HG3	1.59	0.68
45:GD:3:GLU:OE1	45:GD:3:GLU:N	2.27	0.68
45:GD:268:ILE:HG13	45:GD:300:MET:CE	2.23	0.68
45:GF:3:GLU:OE2	45:GF:127:CYS:HB2	1.94	0.68
44:GG:279:GLU:OE1	44:GG:280:LYS:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:178:SER:HB3	45:GJ:347:ASN:HD22	1.58	0.68
44:GK:151:SER:O	44:GK:155:GLU:HG3	1.93	0.68
44:GK:184:PRO:CG	44:GK:398:MET:HE1	2.23	0.68
44:GM:106:GLY:O	44:GM:111:GLY:HA3	1.94	0.68
44:GM:212:ILE:HD13	44:GM:215:ARG:HH22	1.58	0.68
44:GM:230:LEU:O	44:GM:234:VAL:HG23	1.93	0.68
45:GN:184:ASN:OD1	45:GN:185:ALA:N	2.27	0.68
45:HB:372:THR:HG22	45:HB:422:TYR:CD2	2.29	0.68
45:HL:73:MET:CE	45:HL:92:PHE:HB3	2.23	0.68
45:HL:288:GLU:O	45:HL:291:GLN:HG3	1.93	0.68
45:HN:169:VAL:HG13	45:HN:202:ILE:O	1.93	0.68
45:IF:213:ARG:NH2	45:IF:297:LYS:HE2	2.09	0.68
44:IG:408:TYR:HB3	44:IG:413:MET:HE3	1.75	0.68
44:II:14:ILE:HD11	44:II:69:ASP:HB2	1.75	0.68
44:II:54:SER:HB2	44:II:64:ARG:CZ	2.23	0.68
45:IJ:130:LEU:HD11	45:IJ:133:PHE:HE1	1.58	0.68
45:IL:134:GLN:HG3	45:IL:165:GLU:OE1	1.94	0.68
45:IN:23:VAL:HG21	45:IN:230:SER:CB	2.22	0.68
45:JN:256:ASN:ND2	45:JN:350:LYS:HD2	2.08	0.68
45:KB:240:LEU:HD23	45:KB:240:LEU:O	1.93	0.68
45:KB:285:THR:HG23	45:KB:287:PRO:CD	2.17	0.68
45:KB:380:ARG:HD2	45:KB:384:GLN:NE2	2.08	0.68
44:KE:90:GLU:OE1	44:LE:280:LYS:NZ	2.20	0.68
44:KI:224:TYR:HB3	46:KJ:501:GTP:O6	1.93	0.68
44:KI:247:ALA:HB3	44:KI:355:ILE:CD1	2.22	0.68
45:LD:222:TYR:O	45:LD:226:ASN:ND2	2.23	0.68
44:LG:175:PRO:HG2	44:LG:176:GLN:OE1	1.93	0.68
44:LI:5:ILE:HG21	44:LI:122:ILE:HD11	1.76	0.68
44:LI:171:ILE:HD13	44:LI:204:LEU:HB2	1.74	0.68
45:LJ:10:GLY:O	45:LJ:14:ASN:N	2.21	0.68
44:MA:249:ASN:OD1	44:MA:250:VAL:N	2.26	0.68
45:MB:237:THR:CG2	45:MB:250:LEU:HD21	2.17	0.68
45:MB:268:ILE:HG13	45:MB:300:MET:HE2	1.76	0.68
44:MC:185:TYR:HE2	44:MC:404:PHE:HB2	1.57	0.68
44:ME:221:ARG:NH1	45:MF:322:SER:O	2.26	0.68
45:MF:209:ASP:OD1	45:MF:213:ARG:HD3	1.93	0.68
44:MG:118:CYS:O	44:MG:122:ILE:HG13	1.92	0.68
44:MG:244:PHE:HB2	44:MG:356:ASN:HD21	1.59	0.68
45:MH:213:ARG:HD3	45:MH:297:LYS:HZ3	1.57	0.68
44:MI:116:ASP:OD1	44:MI:117:LEU:N	2.25	0.68
45:ML:67:ASP:OD1	45:ML:68:LEU:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:276:ILE:CD1	44:MM:281:ALA:HA	2.23	0.68
45:MN:110:ALA:HA	45:MN:113:ILE:HD11	1.74	0.68
44:NA:254:GLU:HG2	45:ND:98:GLY:HA2	1.75	0.68
44:NC:235:ILE:O	44:NC:239:THR:HG22	1.94	0.68
44:NE:177:VAL:CG1	45:NF:331:LEU:HD22	2.23	0.68
44:NE:257:THR:HA	45:NH:397:TRP:CH2	2.29	0.68
44:NE:332:ILE:HD12	44:NE:351:PHE:CE2	2.29	0.68
44:NG:143:GLY:HA3	46:NG:501:GTP:O2B	1.94	0.68
44:NG:273:ALA:HB1	44:NG:274:PRO:HA	1.76	0.68
45:NN:189:VAL:O	45:NN:193:VAL:HG12	1.93	0.68
44:OC:7:ILE:HD11	44:OC:122:ILE:HG12	1.74	0.68
44:OC:191:THR:O	44:OC:195:LEU:N	2.26	0.68
45:OD:286:VAL:O	45:OD:290:THR:HG23	1.93	0.68
44:OG:288:VAL:HA	44:OG:291:ILE:HG12	1.74	0.68
44:OI:252:ILE:HA	44:OI:255:PHE:CD2	2.28	0.68
44:OI:324:VAL:HG13	45:OL:219:THR:HG23	1.75	0.68
44:OK:168:GLY:H	44:OK:200:VAL:HG23	1.57	0.68
45:OL:173:PRO:HG3	45:OL:380:ARG:HD2	1.76	0.68
44:OM:10:GLY:HA2	44:OM:145:THR:CG2	2.23	0.68
45:PB:11:GLN:OE1	45:PB:15:GLN:NE2	2.25	0.68
44:PC:11:GLN:NE2	45:PD:245:GLN:O	2.26	0.68
45:PD:86:ARG:HA	45:QB:281:TYR:CE2	2.29	0.68
45:PF:20:PHE:CG	45:PF:25:SER:CA	2.76	0.68
45:QB:36:TYR:OH	45:QB:43:GLN:HG3	1.94	0.68
44:QC:247:ALA:N	44:QC:355:ILE:O	2.25	0.68
44:QG:135:PHE:HE2	44:QG:157:LEU:HD22	1.59	0.68
45:QJ:85:PHE:HB3	45:QJ:90:PHE:CZ	2.29	0.68
44:QM:121:ARG:HG3	44:QM:121:ARG:HH11	1.59	0.68
44:QM:171:ILE:HG12	44:QM:204:LEU:HB2	1.75	0.68
44:RA:53:PHE:O	44:RA:64:ARG:NH2	2.26	0.68
44:RA:428:LEU:HG	44:RA:432:TYR:CE2	2.29	0.68
45:RB:322:SER:HB3	44:RC:221:ARG:HG3	1.76	0.68
44:RC:168:GLY:N	44:RC:200:VAL:O	2.22	0.68
45:RD:112:LEU:HD23	45:RD:112:LEU:O	1.94	0.68
45:RF:296:ALA:HA	45:RF:299:MET:CE	2.24	0.68
44:RG:287:SER:O	44:RG:291:ILE:HG23	1.93	0.68
45:RH:138:SER:HA	45:RH:169:VAL:HB	1.76	0.68
44:RK:239:THR:CG2	44:RK:252:ILE:HD11	2.21	0.68
45:RN:6:HIS:HB3	45:RN:63:ALA:HA	1.75	0.68
45:SB:104:GLY:CA	45:SB:143:THR:HG22	2.23	0.68
45:SD:186:THR:HG21	45:SD:412:GLU:OE2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:190:HIS:O	45:SD:193:VAL:HG12	1.94	0.68
45:SF:324:LYS:HD3	44:SG:222:PRO:CG	2.22	0.68
44:SG:35:GLN:HE22	44:SG:60:LYS:HB3	1.58	0.68
45:SH:103:LYS:HA	45:SH:107:THR:CG2	2.24	0.68
45:SJ:2:ARG:NH1	44:SK:71:GLU:OE2	2.27	0.68
45:SJ:178:THR:HG22	45:SJ:180:VAL:H	1.58	0.68
45:SJ:286:VAL:HA	45:SJ:289:LEU:HD12	1.75	0.68
45:SJ:329:GLN:O	45:SJ:333:VAL:HG23	1.94	0.68
44:SM:31:GLN:HB2	44:SM:32:PRO:HD2	1.74	0.68
45:SN:195:ASN:OD1	45:SN:196:ALA:N	2.26	0.68
45:TB:251:ARG:O	45:TB:255:VAL:HG23	1.94	0.68
44:TC:10:GLY:HA3	44:TC:146:GLY:HA2	1.74	0.68
45:TD:319:GLY:HA3	45:TD:363:MET:HE1	1.75	0.68
44:TE:135:PHE:N	44:TE:165:SER:O	2.25	0.68
44:TE:137:VAL:HG13	44:TE:168:GLY:HA2	1.74	0.68
45:TF:19:LYS:HE3	45:TF:226:ASN:HB3	1.76	0.68
45:TF:64:ILE:HG13	45:TF:89:ASN:ND2	2.08	0.68
45:TF:249:ASP:OD1	45:TF:252:LYS:N	2.21	0.68
45:TH:415:MET:O	45:TH:419:VAL:N	2.18	0.68
44:TI:265:ILE:HG12	44:TI:432:TYR:CE1	2.28	0.68
45:TL:251:ARG:O	45:TL:255:VAL:HG23	1.94	0.68
45:TN:113:ILE:HD13	45:TN:150:LEU:HD22	1.76	0.68
44:UA:289:ALA:HA	44:UA:292:THR:CG2	2.24	0.68
44:UA:331:SER:O	44:UA:335:ILE:HG12	1.92	0.68
45:UB:215:LEU:HD23	45:UB:217:LEU:HD22	1.74	0.68
45:UB:287:PRO:HG3	45:UB:329:GLN:NE2	2.08	0.68
45:UB:342:VAL:HG13	45:UB:345:ILE:HG22	1.74	0.68
44:UC:332:ILE:HD12	44:UC:351:PHE:CD2	2.29	0.68
45:UD:52:ASN:HD21	45:UD:62:ARG:HD2	1.56	0.68
45:UD:396:HIS:HA	45:UD:399:THR:OG1	1.94	0.68
44:UE:271:SER:OG	44:UE:301:MET:HA	1.92	0.68
44:UI:4:VAL:HG23	44:UI:134:GLY:C	2.14	0.68
44:UI:128:ASN:OD1	44:VG:285:GLN:NE2	2.26	0.68
44:UK:145:THR:HG22	46:UK:501:GTP:O1B	1.94	0.68
45:UN:316:LEU:HB2	45:UN:366:THR:HB	1.75	0.68
44:VA:433:GLU:O	44:VA:437:ILE:HG23	1.94	0.68
45:VD:67:ASP:OD1	45:VD:68:LEU:N	2.25	0.68
45:VD:137:HIS:O	45:VD:168:SER:HA	1.94	0.68
45:VF:130:LEU:HB3	45:VF:162:ARG:CZ	2.22	0.68
44:VG:2:ARG:HB2	44:VG:133:GLN:CG	2.23	0.68
44:VG:268:MET:HB2	44:VG:379:SER:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:211:ASP:OD1	44:VI:214:ARG:NH2	2.26	0.68
45:VJ:7:ILE:O	45:VJ:135:ILE:HG23	1.93	0.68
45:VL:42:LEU:HA	45:VL:45:GLU:CG	2.24	0.68
45:VL:178:THR:CG2	45:VL:180:VAL:HG12	2.23	0.68
44:WC:413:MET:CE	44:WC:413:MET:HA	2.23	0.68
45:WD:16:ILE:HD13	45:WD:226:ASN:OD1	1.93	0.68
44:WE:217:LEU:HB2	44:WE:219:ILE:HG13	1.76	0.68
45:WF:23:VAL:O	45:WF:27:GLU:N	2.22	0.68
45:WN:318:ARG:NH2	45:WN:356:ILE:O	2.26	0.68
3:0B:291:SER:O	45:KL:361:LEU:HD11	1.93	0.68
8:0G:56:LEU:CD2	44:JK:31:GLN:HB2	2.23	0.68
5:1D:37:GLN:HA	44:DG:84:ARG:HH22	1.58	0.68
27:1W:193:TYR:O	45:LD:221:THR:OG1	2.06	0.68
32:2I:131:ARG:HH21	44:GC:220:GLU:HB3	1.58	0.68
27:2W:216:GLU:OE1	44:LM:278:ALA:HB3	1.92	0.68
16:2X:49:ILE:HG12	44:MI:282:TYR:HD2	1.59	0.68
2:3A:150:LEU:CB	35:6R:78:ILE:HD11	2.24	0.68
6:3E:47:GLU:HG3	35:6R:380:ARG:HH21	1.57	0.68
37:5D:53:PRO:HD3	44:KK:437:ILE:HB	1.74	0.68
38:5G:22:LYS:CE	38:5G:30:PRO:HD3	2.23	0.68
38:5G:140:ASN:HA	45:OL:279:GLN:NE2	2.09	0.68
45:AB:55:THR:CG2	45:BB:283:ALA:CA	2.47	0.68
45:AB:329:GLN:O	45:AB:333:VAL:HG23	1.94	0.68
44:AC:137:VAL:HG12	44:AC:167:LEU:O	1.93	0.68
45:AF:1:MET:O	45:AF:2:ARG:HG2	1.94	0.68
45:AN:116:VAL:O	45:AN:119:VAL:HG12	1.94	0.68
45:AN:253:LEU:O	45:AN:257:LEU:HD13	1.94	0.68
45:BH:251:ARG:HG3	45:BH:251:ARG:HH11	1.57	0.68
44:BI:254:GLU:HG3	45:BL:98:GLY:HA2	1.74	0.68
45:BL:186:THR:HA	45:BL:415:MET:CE	2.24	0.68
45:CB:186:THR:HA	45:CB:415:MET:CE	2.23	0.68
44:CC:273:ALA:HB1	44:CC:274:PRO:HA	1.74	0.68
45:CD:73:MET:O	45:CD:76:VAL:HG12	1.93	0.68
45:CF:228:LEU:HD23	45:CF:300:MET:HE1	1.74	0.68
44:CI:1:MET:CE	45:CJ:94:GLN:HG2	2.24	0.68
45:CJ:347:ASN:HB3	44:CK:178:SER:OG	1.94	0.68
45:CN:19:LYS:HG2	45:CN:227:HIS:N	2.09	0.68
44:DA:259:LEU:HD21	44:DA:316:SER:HB3	1.76	0.68
44:DA:269:LEU:HD23	44:DA:269:LEU:H	1.57	0.68
45:DD:86:ARG:HG3	45:DD:87:PRO:HD2	1.74	0.68
45:DH:268:ILE:HA	45:DH:367:PHE:HD2	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:324:LYS:HD2	44:DI:210:TYR:CG	2.28	0.68
44:DI:54:SER:HB3	44:DI:64:ARG:NH1	2.09	0.68
45:DJ:347:ASN:O	44:DK:181:VAL:HG12	1.93	0.68
44:DK:202:VAL:HA	44:DK:268:MET:O	1.94	0.68
44:DK:216:ASN:HB3	44:DK:275:ILE:O	1.93	0.68
45:DL:186:THR:HG23	45:DL:415:MET:SD	2.34	0.68
45:DN:318:ARG:HH11	45:DN:358:PRO:HG3	1.59	0.68
44:EC:319:TYR:N	44:EC:354:GLY:O	2.20	0.68
44:EG:199:ASP:O	44:EG:266:HIS:HB2	1.94	0.68
45:EH:114:ASP:OD1	45:EH:115:SER:N	2.26	0.68
44:EI:319:TYR:O	44:EI:356:ASN:N	2.27	0.68
44:EK:20:CYS:HA	44:EK:232:ALA:CB	2.24	0.68
45:EL:153:SER:HA	45:EL:156:ARG:HH22	1.59	0.68
45:EL:342:VAL:HG13	45:EL:345:ILE:HG22	1.74	0.68
45:EL:387:ALA:O	45:EL:390:ARG:HG2	1.94	0.68
44:EM:296:PHE:HD1	44:EM:377:MET:HE1	1.59	0.68
45:EN:304:ASP:OD1	45:EN:306:ARG:HG2	1.93	0.68
45:EN:396:HIS:HA	45:EN:399:THR:OG1	1.93	0.68
44:FA:68:LEU:CD2	44:FA:153:LEU:HD11	2.23	0.68
45:FB:267:MET:CE	45:FB:373:ALA:HB3	2.24	0.68
44:FE:91:GLN:HG3	44:FE:92:LEU:HD12	1.74	0.68
44:FG:434:GLU:O	44:FG:437:ILE:HG12	1.94	0.68
44:FI:331:SER:O	44:FI:335:ILE:HG12	1.93	0.68
44:FK:100:ALA:O	45:FL:255:VAL:HG21	1.92	0.68
44:FM:209:ILE:CG2	44:FM:227:LEU:HD22	2.23	0.68
45:FN:244:GLY:HA2	45:FN:355:ASP:OD2	1.93	0.68
45:GH:162:ARG:HA	45:GH:162:ARG:HE	1.58	0.68
45:GH:318:ARG:NH1	45:GH:358:PRO:HG3	2.08	0.68
44:GI:404:PHE:CE2	45:GJ:259:PRO:HA	2.29	0.68
44:GM:112:LYS:O	44:GM:115:VAL:HG12	1.93	0.68
44:GM:434:GLU:O	44:GM:437:ILE:HG12	1.94	0.68
45:GN:19:LYS:O	45:GN:22:GLU:HG2	1.94	0.68
45:GN:116:VAL:O	45:GN:119:VAL:HG12	1.94	0.68
44:HC:9:VAL:HG11	44:HC:153:LEU:CD1	2.24	0.68
44:HC:276:ILE:CG2	44:HC:281:ALA:HB2	2.22	0.68
45:HD:267:MET:HG3	45:HD:301:CYS:SG	2.34	0.68
44:HE:101:ASN:HD22	45:HF:252:LYS:HG3	1.58	0.68
45:HF:172:SER:OG	45:HF:205:GLU:HB2	1.93	0.68
45:HL:25:SER:HB3	45:HL:30:ILE:HB	1.75	0.68
45:IB:222:TYR:HB3	48:IB:501:GDP:C6	2.28	0.68
45:IB:256:ASN:HB2	45:IB:350:LYS:HD2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:42:LEU:HD22	45:ID:356:ILE:CD1	2.23	0.68
44:IE:100:ALA:O	45:IF:255:VAL:HG21	1.93	0.68
44:IE:215:ARG:HD2	44:IE:215:ARG:O	1.94	0.68
44:IM:236:SER:OG	44:IM:243:ARG:NH2	2.27	0.68
44:IM:272:TYR:HD1	44:IM:376:CYS:HB2	1.59	0.68
44:JC:328:VAL:HG21	44:JC:355:ILE:HD11	1.74	0.68
44:JK:211:ASP:O	44:JK:215:ARG:HG2	1.93	0.68
44:JK:233:GLN:O	44:JK:237:SER:N	2.26	0.68
44:KC:71:GLU:OE2	45:KD:2:ARG:NH2	2.27	0.68
45:KD:114:ASP:OD1	45:KD:115:SER:N	2.26	0.68
44:KG:253:THR:O	44:KG:256:GLN:NE2	2.26	0.68
45:KH:61:PRO:HD2	45:KH:84:LEU:O	1.94	0.68
45:LD:86:ARG:HA	45:MD:281:TYR:CD2	2.29	0.68
45:LD:105:HIS:CE1	45:LD:150:LEU:HD12	2.29	0.68
45:LF:135:ILE:HG13	45:LF:164:MET:HE3	1.75	0.68
44:LI:265:ILE:HD12	44:LI:432:TYR:CE1	2.28	0.68
45:MB:61:PRO:HD2	45:MB:84:LEU:O	1.93	0.68
45:MB:301:CYS:HB3	45:MB:377:MET:HE1	1.73	0.68
45:MB:314:SER:OG	45:MB:350:LYS:HB3	1.94	0.68
45:MD:2:ARG:NH1	45:MD:46:ARG:HD2	2.08	0.68
44:ME:210:TYR:CE1	44:ME:227:LEU:HD11	2.29	0.68
45:MF:175:VAL:HG22	45:MF:205:GLU:HB2	1.76	0.68
44:MM:4:VAL:CG2	44:MM:136:LEU:HG	2.24	0.68
44:MM:298:PRO:HA	44:MM:301:MET:CE	2.15	0.68
45:MN:35:THR:HG23	45:MN:37:HIS:HE1	1.58	0.68
45:NB:241:ARG:HG3	45:NB:241:ARG:HH11	1.58	0.68
45:ND:227:HIS:O	45:ND:230:SER:OG	2.10	0.68
45:NF:131:GLN:C	45:NF:162:ARG:HD2	2.12	0.68
45:NF:207:LEU:O	45:NF:210:ILE:HG22	1.92	0.68
44:NK:50:ASN:HA	44:NK:53:PHE:O	1.92	0.68
45:NN:200:MET:HE2	45:NN:268:ILE:HG21	1.74	0.68
45:NN:256:ASN:CB	45:NN:350:LYS:HD2	2.24	0.68
44:OA:171:ILE:HG12	44:OA:204:LEU:HB2	1.74	0.68
45:OD:66:MET:CE	45:OD:147:MET:HG2	2.23	0.68
45:OD:217:LEU:CG	45:OD:220:PRO:HG3	2.24	0.68
45:OF:7:ILE:HB	45:OF:135:ILE:CD1	2.24	0.68
44:OG:141:VAL:CG2	44:OG:187:SER:HA	2.24	0.68
44:OI:354:GLY:O	44:OI:355:ILE:HD13	1.94	0.68
44:OK:259:LEU:HD11	44:OK:316:SER:HB3	1.76	0.68
45:OL:358:PRO:HD2	45:OL:364:ALA:HB3	1.74	0.68
45:ON:117:LEU:HD21	45:ON:154:LYS:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PB:420:SER:O	45:PB:423:GLN:HG3	1.93	0.68
44:PC:268:MET:HB2	44:PC:379:SER:O	1.93	0.68
44:PC:396:ASP:OD1	44:PC:397:LEU:N	2.27	0.68
45:PD:288:GLU:O	45:PD:291:GLN:HG3	1.94	0.68
45:PJ:86:ARG:HE	45:PJ:87:PRO:HD2	1.57	0.68
44:PK:135:PHE:O	44:PK:167:LEU:HD23	1.93	0.68
45:PL:287:PRO:O	45:PL:290:THR:HG22	1.94	0.68
44:PM:313:MET:N	44:PM:380:ASN:O	2.26	0.68
44:QA:240:ALA:HB1	44:QA:356:ASN:HD22	1.57	0.68
44:QC:395:PHE:O	44:QC:399:TYR:N	2.25	0.68
44:QE:141:VAL:HG11	44:QE:172:TYR:CD1	2.29	0.68
45:QJ:147:MET:O	45:QJ:151:LEU:HG	1.94	0.68
44:QK:260:VAL:HG13	44:QK:265:ILE:O	1.93	0.68
44:QK:269:LEU:HD23	44:QK:379:SER:O	1.93	0.68
44:QM:315:CYS:O	44:QM:352:LYS:N	2.27	0.68
45:RB:210:ILE:HD11	45:RB:273:LEU:CD1	2.22	0.68
45:RD:267:MET:N	45:RD:369:GLY:O	2.22	0.68
44:RG:205:ASP:OD1	44:RG:303:ALA:HA	1.93	0.68
44:RG:268:MET:HG2	44:RG:380:ASN:CG	2.13	0.68
44:RK:168:GLY:O	44:RK:201:ALA:HA	1.94	0.68
44:RK:294:SER:HA	44:RK:297:GLU:HG3	1.74	0.68
45:RL:18:ALA:O	45:RL:21:TRP:N	2.26	0.68
45:RL:73:MET:O	45:RL:76:VAL:HG12	1.93	0.68
45:RN:61:PRO:HD2	45:RN:84:LEU:O	1.92	0.68
45:RN:269:GLY:O	45:RN:367:PHE:N	2.23	0.68
44:SA:324:VAL:CG1	44:SA:326:LYS:HG3	2.23	0.68
45:SB:133:PHE:HB2	45:SB:164:MET:SD	2.34	0.68
45:SB:314:SER:CB	45:SB:350:LYS:HB3	2.23	0.68
45:SD:161:ASP:OD2	45:SD:162:ARG:NH2	2.27	0.68
45:SD:185:ALA:O	45:SD:189:VAL:HG13	1.94	0.68
44:SE:90:GLU:HG2	44:TE:280:LYS:HE3	1.75	0.68
44:SE:153:LEU:O	44:SE:157:LEU:HG	1.94	0.68
45:SF:72:THR:O	45:SF:75:SER:OG	2.04	0.68
44:SI:384:ILE:O	44:SI:387:VAL:HG22	1.92	0.68
45:SJ:72:THR:O	45:SJ:76:VAL:HG13	1.92	0.68
45:SJ:86:ARG:HA	45:SJ:86:ARG:HE	1.57	0.68
44:SK:298:PRO:O	44:SK:301:MET:HE1	1.94	0.68
45:SL:268:ILE:HG22	45:SL:368:VAL:HG12	1.75	0.68
44:SM:31:GLN:HE22	44:SM:33:ASP:CB	2.04	0.68
44:TG:188:ILE:HG23	44:TG:425:LEU:CD1	2.23	0.68
44:TI:21:TRP:CZ2	44:TI:65:ALA:HB2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:205:ASP:OD1	44:TI:303:ALA:HA	1.93	0.68
45:TJ:178:THR:HB	45:TJ:181:GLU:CG	2.17	0.68
45:TJ:237:THR:HG23	45:TJ:241:ARG:HH21	1.58	0.68
45:TL:66:MET:SD	45:TL:116:VAL:HG21	2.34	0.68
45:TL:135:ILE:O	45:TL:167:PHE:N	2.21	0.68
45:TL:401:GLU:HB2	45:TL:403:MET:HE1	1.74	0.68
44:TM:252:ILE:HA	44:TM:255:PHE:CZ	2.29	0.68
44:UC:135:PHE:O	44:UC:136:LEU:HD23	1.92	0.68
44:UC:352:LYS:HA	45:UD:177:ASP:O	1.94	0.68
44:UC:434:GLU:O	44:UC:437:ILE:HG12	1.93	0.68
45:UD:12:CYS:HB2	48:UD:501:GDP:O4'	1.93	0.68
45:UD:251:ARG:O	45:UD:255:VAL:HG23	1.93	0.68
45:UF:86:ARG:NH2	45:VF:281:TYR:O	2.26	0.68
45:UF:193:VAL:HA	45:UF:264:HIS:HE1	1.57	0.68
45:UL:187:LEU:O	45:UL:190:HIS:HB3	1.94	0.68
45:UL:189:VAL:O	45:UL:193:VAL:HG12	1.94	0.68
44:VA:325:PRO:HB3	45:VD:222:TYR:CE1	2.24	0.68
44:VA:329:ASN:CB	45:VD:175:VAL:HG11	2.23	0.68
44:VC:129:CYS:HB2	44:VC:132:LEU:CD1	2.24	0.68
44:VC:267:PHE:HE2	44:VC:428:LEU:HD21	1.59	0.68
45:VD:145:SER:O	45:VD:149:THR:HG22	1.93	0.68
45:VF:239:CYS:SG	45:VF:248:SER:N	2.67	0.68
45:VH:97:ALA:O	45:VH:103:LYS:HD2	1.94	0.68
44:VI:257:THR:HA	45:VL:397:TRP:HZ3	1.59	0.68
44:VI:326:LYS:HE2	45:VL:219:THR:HA	1.75	0.68
45:VN:315:ALA:N	45:VN:350:LYS:O	2.27	0.68
45:VN:345:ILE:CG1	45:VN:348:ASN:HB3	2.20	0.68
45:WB:293:MET:HE2	45:WB:367:PHE:HD1	1.59	0.68
44:WC:407:TRP:HZ3	45:WD:255:VAL:HA	1.58	0.68
44:WI:132:LEU:HD22	44:WI:164:LYS:HE3	1.75	0.68
44:WI:145:THR:HG22	46:WI:501:GTP:PG	2.33	0.68
44:WK:276:ILE:HG21	44:WK:281:ALA:HA	1.76	0.68
3:OB:61:ARG:NH2	45:JH:75:SER:HB2	2.09	0.68
25:2P:407:GLN:HG2	45:SL:56:GLY:H	1.58	0.68
28:4C:235:ARG:NH2	45:JN:56:GLY:HA3	2.07	0.68
16:4X:92:LYS:HD3	35:5R:21:LEU:HD11	1.76	0.68
37:5D:107:TYR:CA	44:NM:279:GLU:H	2.06	0.68
36:5S:92:GLU:HG2	36:5S:94:GLU:OE1	1.94	0.68
35:7R:127:ILE:N	35:7R:148:GLN:O	2.25	0.68
35:7R:368:GLN:OE1	35:7R:370:PRO:HD3	1.93	0.68
45:AB:295:ASP:OD1	45:AB:296:ALA:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:291:GLN:NE2	45:AD:292:GLN:HG2	2.09	0.68
44:AK:137:VAL:O	44:AK:168:GLY:HA2	1.93	0.68
44:AK:192:HIS:ND1	44:AK:424:ASP:OD2	2.27	0.68
44:AK:345:ASP:OD2	45:AN:390:ARG:NH2	2.27	0.68
44:BA:112:LYS:O	44:BA:115:VAL:HG12	1.94	0.68
44:BG:68:LEU:HD21	44:BG:118:CYS:HB2	1.74	0.68
44:BG:88:HIS:ND1	44:BG:88:HIS:O	2.26	0.68
44:BG:154:LEU:HD13	44:BG:198:THR:OG1	1.93	0.68
44:BI:60:LYS:NZ	44:BI:85:GLN:O	2.22	0.68
44:BI:255:PHE:O	44:BI:259:LEU:HD23	1.94	0.68
44:BI:288:VAL:HG11	44:BI:327:ASP:HB3	1.76	0.68
44:BM:287:SER:N	44:BM:290:GLU:OE2	2.26	0.68
45:BN:233:MET:O	45:BN:236:VAL:HG12	1.93	0.68
45:CD:255:VAL:HG22	44:CE:407:TRP:CE3	2.28	0.68
45:CJ:284:LEU:HB2	45:CJ:362:LYS:NZ	2.09	0.68
45:CL:255:VAL:HG21	44:CM:100:ALA:HB1	1.75	0.68
45:DB:30:ILE:HD13	45:DB:36:TYR:HA	1.75	0.68
44:DC:296:PHE:HE2	44:DC:335:ILE:HG21	1.59	0.68
44:DC:351:PHE:N	45:DD:179:VAL:HG12	2.06	0.68
45:DF:370:ASN:OD1	45:DF:422:TYR:OH	2.12	0.68
44:DI:71:GLU:CD	44:DI:73:THR:H	1.96	0.68
44:EA:231:ILE:CA	44:EA:234:VAL:HG22	2.22	0.68
45:EB:304:ASP:OD2	45:EB:307:HIS:NE2	2.27	0.68
44:EE:188:ILE:HD11	44:EE:425:LEU:CD2	2.16	0.68
44:EI:242:LEU:HD22	44:EI:252:ILE:CD1	2.23	0.68
45:EL:67:ASP:OD1	45:EL:68:LEU:N	2.26	0.68
45:EN:73:MET:HE2	45:EN:90:PHE:HB3	1.73	0.68
45:EN:156:ARG:NH1	45:EN:162:ARG:O	2.25	0.68
45:FD:178:THR:OG1	45:FD:181:GLU:HG3	1.93	0.68
44:FE:16:VAL:O	44:FE:20:CYS:N	2.25	0.68
44:FE:69:ASP:OD1	44:FE:71:GLU:N	2.22	0.68
45:FL:253:LEU:O	45:FL:257:LEU:HD13	1.93	0.68
45:FL:323:THR:HA	45:FL:326:VAL:HB	1.74	0.68
45:FN:28:HIS:CE1	45:FN:43:GLN:HA	2.29	0.68
44:GC:182:VAL:HG12	45:GD:256:ASN:HD21	1.59	0.68
44:GC:202:VAL:HG21	44:GC:270:SER:HB3	1.73	0.68
44:GC:254:GLU:CG	45:GF:98:GLY:HA2	2.17	0.68
44:GC:320:ARG:NH1	44:GC:360:PRO:HA	2.09	0.68
44:GI:377:MET:HE1	44:GI:379:SER:HB2	1.75	0.68
44:GK:46:ASP:OD2	44:GK:48:ALA:HB2	1.94	0.68
44:GK:138:PHE:CD1	44:GK:169:PHE:HB2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:421:ALA:O	44:GK:425:LEU:HG	1.94	0.68
44:GM:30:ILE:HG12	44:GM:36:MET:HE3	1.75	0.68
44:HC:76:ASP:OD2	45:HD:46:ARG:NH2	2.26	0.68
44:HC:112:LYS:O	44:HC:115:VAL:HG12	1.94	0.68
44:HE:169:PHE:HA	44:HE:202:VAL:HG22	1.76	0.68
45:HF:210:ILE:O	45:HF:214:THR:OG1	2.09	0.68
45:HH:68:LEU:HD23	45:HH:97:ALA:HB2	1.74	0.68
44:HK:99:ALA:O	44:HK:105:ARG:HD3	1.94	0.68
45:HL:293:MET:HE2	45:HL:365:VAL:HG11	1.75	0.68
44:HM:112:LYS:O	44:HM:115:VAL:HG12	1.94	0.68
44:HM:212:ILE:HG21	44:HM:275:ILE:HD12	1.75	0.68
44:HM:317:MET:HB3	44:HM:319:TYR:CE1	2.29	0.68
44:IA:105:ARG:HA	44:IA:109:THR:HG22	1.74	0.68
44:IA:292:THR:HG21	44:IA:331:SER:HB3	1.75	0.68
44:IE:271:SER:HB2	44:IE:377:MET:SD	2.32	0.68
45:IF:69:GLU:OE2	45:IF:72:THR:HG23	1.93	0.68
45:IH:5:VAL:HG12	45:IH:62:ARG:CD	2.24	0.68
44:II:1:MET:CE	45:IL:70:PRO:HG3	2.23	0.68
44:II:30:ILE:HD11	44:II:61:HIS:HB2	1.75	0.68
44:II:214:ARG:HA	44:II:219:ILE:O	1.93	0.68
45:IL:165:GLU:HB3	45:IL:167:PHE:HE1	1.58	0.68
44:IM:33:ASP:HA	44:IM:85:GLN:HB2	1.74	0.68
44:IM:269:LEU:HD12	44:IM:303:ALA:HB3	1.74	0.68
44:JE:137:VAL:HG12	44:JE:167:LEU:O	1.93	0.68
44:JE:269:LEU:N	44:JE:379:SER:O	2.26	0.68
44:JI:221:ARG:HG2	45:JJ:322:SER:HB3	1.75	0.68
45:JJ:211:CYS:HA	45:JJ:215:LEU:HD12	1.76	0.68
44:JM:222:PRO:O	45:JN:322:SER:OG	2.10	0.68
45:JN:58:ARG:NH2	45:JN:83:GLN:O	2.27	0.68
44:KA:292:THR:HG21	44:KA:331:SER:OG	1.93	0.68
45:KB:11:GLN:HA	45:KB:72:THR:HG21	1.76	0.68
45:KF:272:PRO:HD3	45:KF:289:LEU:HD21	1.76	0.68
45:KL:101:TRP:CD1	45:KL:146:GLY:HA2	2.28	0.68
44:LA:271:SER:HB3	44:LA:377:MET:CG	2.24	0.68
45:LB:213:ARG:HD2	45:LB:213:ARG:O	1.93	0.68
45:LD:405:GLU:OE1	45:LD:406:MET:HE2	1.94	0.68
44:LE:217:LEU:HD11	44:LE:275:ILE:CG2	2.22	0.68
45:LJ:132:GLY:HA3	45:LJ:163:ILE:HG22	1.74	0.68
44:LM:214:ARG:HH21	44:LM:215:ARG:HG2	1.57	0.68
44:MA:384:ILE:O	44:MA:387:VAL:HG22	1.93	0.68
44:MG:276:ILE:HG12	44:MG:281:ALA:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:326:LYS:HD3	45:MJ:212:PHE:CE2	2.28	0.68
45:MH:248:SER:HB2	45:MH:252:LYS:HD2	1.76	0.68
45:MJ:193:VAL:HA	45:MJ:264:HIS:CE1	2.28	0.68
44:MM:68:LEU:HD11	44:MM:118:CYS:SG	2.34	0.68
45:NB:67:ASP:HB3	45:NB:73:MET:CE	2.24	0.68
44:NC:113:GLU:N	44:NC:113:GLU:OE1	2.27	0.68
45:NF:69:GLU:OE2	45:NF:72:THR:HG23	1.93	0.68
45:NF:162:ARG:HD3	45:NF:163:ILE:H	1.57	0.68
44:NK:52:PHE:CZ	44:NK:239:THR:HG21	2.29	0.68
44:NK:209:ILE:HG12	44:NK:302:MET:CE	2.23	0.68
44:NK:298:PRO:HG3	44:NK:308:ARG:HE	1.59	0.68
44:NK:432:TYR:O	44:NK:435:VAL:HG12	1.93	0.68
45:NL:54:ALA:CB	45:OL:283:ALA:HB2	2.23	0.68
44:NM:105:ARG:HH21	44:NM:110:ILE:CG2	2.06	0.68
44:NM:265:ILE:HG12	44:NM:432:TYR:CE1	2.29	0.68
45:NN:69:GLU:O	45:NN:73:MET:HE1	1.94	0.68
45:OB:324:LYS:NZ	45:OB:328:GLU:OE2	2.20	0.68
44:OC:265:ILE:HD12	44:OC:432:TYR:CE1	2.28	0.68
44:OI:287:SER:N	44:OI:290:GLU:OE2	2.25	0.68
44:OK:100:ALA:HA	45:OL:252:LYS:CG	2.22	0.68
45:OL:45:GLU:OE2	45:OL:46:ARG:HG2	1.94	0.68
45:ON:32:PRO:HG3	45:ON:81:PHE:CD1	2.29	0.68
44:PA:4:VAL:O	44:PA:64:ARG:HD3	1.94	0.68
45:PB:145:SER:HB2	45:PB:188:SER:CB	2.24	0.68
44:PC:73:THR:HG21	45:PD:243:PRO:HA	1.75	0.68
45:PD:268:ILE:HG13	45:PD:300:MET:HE3	1.75	0.68
44:PK:318:MET:SD	44:PK:354:GLY:HA3	2.33	0.68
45:PL:329:GLN:O	45:PL:333:VAL:HG23	1.94	0.68
45:PN:30:ILE:HD13	45:PN:36:TYR:HA	1.76	0.68
44:QE:271:SER:OG	44:QE:301:MET:HA	1.92	0.68
44:QG:184:PRO:O	44:QG:188:ILE:HG12	1.93	0.68
45:QH:237:THR:HG23	45:QH:241:ARG:HH21	1.59	0.68
44:QI:275:ILE:HG23	44:QI:368:LEU:HD11	1.75	0.68
44:QI:315:CYS:N	44:QI:350:GLY:O	2.25	0.68
44:QM:203:MET:HE1	44:QM:384:ILE:HD11	1.76	0.68
45:RB:321:MET:HB3	44:RC:221:ARG:HH21	1.58	0.68
44:RC:155:GLU:HA	44:RC:197:HIS:CE1	2.28	0.68
44:RC:416:GLY:O	44:RC:419:SER:OG	2.05	0.68
44:RE:273:ALA:HB3	44:RE:375:VAL:CG1	2.23	0.68
45:RF:19:LYS:HG3	45:RF:226:ASN:HB3	1.76	0.68
44:RG:276:ILE:HG22	44:RG:281:ALA:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:315:CYS:SG	44:RI:379:SER:HB3	2.33	0.68
45:RJ:286:VAL:HG22	45:RJ:289:LEU:HD12	1.75	0.68
44:RK:141:VAL:HG22	44:RK:187:SER:HA	1.76	0.68
45:RL:136:THR:HG22	45:RL:167:PHE:CD1	2.27	0.68
45:SB:193:VAL:HA	45:SB:264:HIS:CE1	2.28	0.68
44:SC:195:LEU:HD21	44:SC:264:ARG:HH22	1.58	0.68
44:SC:219:ILE:HB	44:SC:220:GLU:OE1	1.94	0.68
45:SD:173:PRO:CB	45:SD:176:SER:HA	2.18	0.68
45:SD:211:CYS:HA	45:SD:215:LEU:CD1	2.23	0.68
45:SD:316:LEU:HG	45:SD:352:SER:CB	2.22	0.68
44:SE:272:TYR:CE2	44:SE:275:ILE:HD11	2.29	0.68
44:SG:319:TYR:CD2	44:SG:375:VAL:HB	2.28	0.68
45:SH:397:TRP:O	45:SH:400:GLY:N	2.18	0.68
44:SK:137:VAL:HG12	44:SK:167:LEU:O	1.92	0.68
45:SL:208:TYR:CE1	45:SL:225:LEU:HD11	2.28	0.68
44:TA:305:CYS:SG	44:TA:383:ALA:HB1	2.34	0.68
44:TC:296:PHE:HE2	44:TC:335:ILE:HG13	1.56	0.68
45:TF:325:GLU:HA	45:TF:328:GLU:CG	2.22	0.68
44:TG:21:TRP:HZ2	44:TG:65:ALA:HB2	1.58	0.68
45:TJ:113:ILE:O	45:TJ:117:LEU:N	2.24	0.68
44:TK:51:THR:HG21	44:TK:243:ARG:CB	2.24	0.68
44:TK:242:LEU:CD1	44:TK:252:ILE:HG13	2.24	0.68
44:TK:329:ASN:HA	44:TK:332:ILE:HD13	1.76	0.68
45:TL:4:ILE:HB	45:TL:134:GLN:OE1	1.94	0.68
45:TL:303:ALA:HB1	45:TL:373:ALA:CB	2.24	0.68
45:UB:30:ILE:HD13	45:UB:36:TYR:HA	1.74	0.68
45:UB:87:PRO:HA	45:UB:90:PHE:CD2	2.28	0.68
44:UC:163:LYS:O	44:UC:163:LYS:HD3	1.94	0.68
44:UE:91:GLN:HE22	44:UE:125:LEU:HD21	1.59	0.68
45:UF:173:PRO:HB3	45:UF:384:GLN:OE1	1.93	0.68
45:UH:214:THR:O	45:UH:216:LYS:HG3	1.94	0.68
45:UJ:68:LEU:HG	45:UJ:96:GLY:HA2	1.75	0.68
45:UJ:141:GLY:HA3	48:UJ:501:GDP:PA	2.34	0.68
45:UJ:259:PRO:HA	44:UK:404:PHE:CE1	2.28	0.68
44:UM:419:SER:O	44:UM:423:GLU:N	2.23	0.68
45:VB:246:LEU:HB2	45:VB:353:ILE:N	2.05	0.68
44:VC:340:THR:HG23	44:VC:341:ILE:HG13	1.76	0.68
45:VJ:303:ALA:H	45:VJ:377:MET:HE2	1.57	0.68
45:VJ:396:HIS:O	45:VJ:399:THR:OG1	2.09	0.68
44:VK:102:ASN:ND2	44:VK:411:GLU:HG3	2.06	0.68
45:VN:28:HIS:HB3	45:VN:30:ILE:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:257:LEU:HA	45:VN:312:THR:HG21	1.75	0.68
44:WA:2:ARG:NH2	45:WD:69:GLU:OE1	2.26	0.68
44:WC:230:LEU:HD12	44:WC:275:ILE:HD13	1.75	0.68
45:WD:3:GLU:OE2	45:WD:127:CYS:HB2	1.93	0.68
44:WE:356:ASN:OD1	44:WE:357:TYR:N	2.27	0.68
44:WG:166:LYS:N	44:WG:199:ASP:OD2	2.26	0.68
45:WH:21:TRP:HA	45:WH:24:ILE:HG22	1.75	0.68
45:WN:173:PRO:HG2	45:WN:380:ARG:HD3	1.74	0.68
45:WN:242:PHE:HB3	45:WN:356:ILE:HD13	1.74	0.68
45:WN:313:ALA:N	45:WN:348:ASN:O	2.19	0.68
15:0V:52:ALA:HB2	44:LM:116:ASP:OD2	1.94	0.68
4:1C:73:PRO:HD3	45:DL:55:THR:HB	1.74	0.68
20:1J:302:PHE:CD1	44:IK:280:LYS:HE2	2.28	0.68
22:1L:752:LEU:CD2	45:BD:320:ARG:HB2	2.20	0.68
15:1V:93:MET:O	45:LJ:261:PRO:HB2	1.93	0.68
16:2X:3:ARG:HA	44:MI:245:ASP:OD1	1.91	0.68
37:5D:106:SER:CA	44:NM:279:GLU:HG3	2.23	0.68
38:5E:56:VAL:HG12	45:OB:276:ARG:NH2	2.09	0.68
38:5G:214:LEU:CD2	44:LK:437:ILE:HD11	2.17	0.68
11:5Q:138:ASP:O	11:5Q:142:ARG:N	2.27	0.68
11:6Q:2:PHE:CD2	11:6Q:11:LEU:HD21	2.29	0.68
11:6Q:109:GLN:NE2	11:6Q:111:THR:O	2.27	0.68
35:6R:12:LEU:HB3	35:6R:13:PRO:CD	2.24	0.68
35:7R:132:PRO:O	35:7R:141:GLN:NE2	2.27	0.68
43:8R:197:UNK:O	45:PH:362:LYS:NZ	2.24	0.68
45:AD:201:VAL:HG12	45:AD:266:PHE:O	1.94	0.68
45:AJ:60:VAL:HG21	45:AJ:86:ARG:HB3	1.74	0.68
45:AN:193:VAL:O	45:AN:264:HIS:NE2	2.22	0.68
44:BA:24:PHE:HZ	44:BA:235:ILE:HG22	1.59	0.68
44:BA:214:ARG:NH2	44:BA:215:ARG:HG2	2.09	0.68
44:BC:215:ARG:HG3	44:BC:216:ASN:OD1	1.94	0.68
45:BD:20:PHE:HE2	45:BD:233:MET:HG3	1.59	0.68
45:BF:137:HIS:O	45:BF:168:SER:HA	1.93	0.68
44:BM:185:TYR:OH	44:BM:403:ALA:O	2.08	0.68
44:BM:210:TYR:OH	45:BN:323:THR:OG1	2.12	0.68
44:BM:262:TYR:HB3	44:BM:263:PRO:HD2	1.75	0.68
45:BN:40:SER:OG	45:BN:43:GLN:NE2	2.18	0.68
44:CA:188:ILE:HD12	44:CA:425:LEU:HD11	1.76	0.68
44:CA:320:ARG:HB3	44:CA:356:ASN:HB3	1.76	0.68
44:CC:315:CYS:N	44:CC:350:GLY:O	2.22	0.68
45:CD:347:ASN:O	44:CE:181:VAL:HG12	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:363:VAL:HG22	44:CE:364:PRO:HD2	1.76	0.68
44:CG:392:ASP:OD2	44:CG:422:ARG:NH2	2.26	0.68
45:CJ:22:GLU:HG2	45:CJ:81:PHE:CB	2.24	0.68
45:CL:173:PRO:CG	45:CL:380:ARG:HD3	2.24	0.68
44:DA:5:ILE:HB	44:DA:135:PHE:CD1	2.29	0.68
44:DA:8:HIS:HB2	44:DA:67:PHE:HA	1.76	0.68
44:DA:321:GLY:O	44:DA:357:TYR:HA	1.93	0.68
44:DC:9:VAL:HA	44:DC:68:LEU:O	1.94	0.68
44:DC:172:TYR:HH	44:DC:191:THR:HG1	1.39	0.68
44:DG:311:LYS:O	44:DG:381:SER:HB2	1.94	0.68
44:DM:274:PRO:HD2	44:DM:374:ALA:HA	1.76	0.68
45:DN:4:ILE:HG22	45:DN:132:GLY:H	1.57	0.68
44:EA:126:ALA:HA	44:EA:129:CYS:SG	2.33	0.68
45:EB:139:LEU:HD23	45:EB:185:ALA:HA	1.73	0.68
45:ED:68:LEU:HD12	45:ED:93:GLY:HA3	1.75	0.68
45:ED:309:ARG:NH2	45:ED:426:GLN:HG2	2.08	0.68
44:EI:294:SER:HA	44:EI:297:GLU:HG3	1.75	0.68
45:EJ:22:GLU:HG2	45:EJ:81:PHE:CB	2.24	0.68
45:FB:275:SER:O	45:FB:279:GLN:N	2.27	0.68
44:FC:141:VAL:CG1	44:FC:172:TYR:HA	2.23	0.68
44:FC:224:TYR:HB3	46:FC:501:GTP:O6	1.94	0.68
45:FD:124:ALA:HB1	45:FD:130:LEU:HD11	1.75	0.68
44:FE:177:VAL:HB	44:FE:207:GLU:OE1	1.94	0.68
45:FF:406:MET:O	45:FF:410:GLU:HG3	1.94	0.68
44:FG:176:GLN:HG3	45:FH:331:LEU:HD21	1.76	0.68
44:FG:298:PRO:HG3	44:FG:308:ARG:HH12	1.59	0.68
45:FH:238:CYS:SG	45:FH:318:ARG:NH2	2.67	0.68
45:FN:14:ASN:HB3	45:FN:72:THR:OG1	1.93	0.68
44:GA:88:HIS:O	44:GA:91:GLN:HG2	1.94	0.68
45:GD:34:GLY:O	45:GD:58:ARG:HA	1.93	0.68
44:GE:196:GLU:OE2	44:GE:264:ARG:NH1	2.27	0.68
44:GE:222:PRO:HG2	45:GF:324:LYS:HD3	1.76	0.68
45:GJ:131:GLN:O	45:GJ:163:ILE:HG12	1.92	0.68
44:GK:186:ASN:OD1	44:GK:187:SER:N	2.27	0.68
45:GL:58:ARG:NH1	45:HL:280:GLN:HB3	2.08	0.68
45:HB:236:VAL:HG13	45:HB:253:LEU:HD22	1.75	0.68
45:HB:314:SER:HB3	45:HB:368:VAL:HB	1.74	0.68
44:HE:268:MET:HB2	44:HE:379:SER:O	1.93	0.68
45:HF:248:SER:CA	45:HF:252:LYS:HD2	2.15	0.68
44:HI:195:LEU:HG	44:HI:264:ARG:NH1	2.09	0.68
44:HI:362:VAL:HG11	44:HI:370:LYS:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HJ:110:ALA:O	45:HJ:113:ILE:HG22	1.94	0.68
45:HL:375:GLN:NE2	45:HL:423:GLN:HB3	2.09	0.68
44:HM:141:VAL:HG11	44:HM:172:TYR:CD1	2.29	0.68
44:HM:141:VAL:HG11	44:HM:172:TYR:HD1	1.59	0.68
44:HM:221:ARG:HD2	45:HN:322:SER:HB3	1.75	0.68
45:HN:42:LEU:HA	45:HN:45:GLU:HG3	1.75	0.68
44:IC:74:VAL:HG23	45:ID:247:ASN:HD21	1.57	0.68
44:IC:260:VAL:HG13	44:IC:265:ILE:O	1.94	0.68
44:IC:275:ILE:HD12	44:IC:368:LEU:CD1	2.24	0.68
44:IG:262:TYR:OH	45:IJ:391:ARG:HG3	1.94	0.68
44:II:217:LEU:HD21	44:II:275:ILE:HG13	1.74	0.68
45:IJ:42:LEU:HD13	45:IJ:45:GLU:CD	2.14	0.68
45:IL:174:LYS:HB2	45:IL:205:GLU:OE1	1.94	0.68
44:IM:115:VAL:HG22	44:IM:119:LEU:CD2	2.23	0.68
44:IM:188:ILE:HD12	44:IM:425:LEU:CD2	2.23	0.68
44:JA:103:PHE:HB3	44:JA:408:TYR:HE2	1.56	0.68
44:JA:416:GLY:O	44:JA:419:SER:OG	2.06	0.68
45:JB:278:SER:OG	45:JB:281:TYR:HB2	1.94	0.68
44:JC:206:ASN:ND2	46:JC:501:GTP:O2'	2.24	0.68
45:JF:258:ILE:HG13	45:JF:266:PHE:HZ	1.59	0.68
44:JG:286:LEU:HD23	44:JG:290:GLU:OE2	1.93	0.68
44:JG:320:ARG:CD	44:JG:360:PRO:HG3	2.22	0.68
44:JG:329:ASN:HB3	45:JJ:175:VAL:HG11	1.75	0.68
45:JJ:314:SER:CB	45:JJ:350:LYS:HB3	2.24	0.68
45:JL:167:PHE:CE2	45:JL:233:MET:HB2	2.28	0.68
45:JN:285:THR:OG1	45:JN:288:GLU:OE1	2.12	0.68
45:JN:335:ASN:OD1	45:JN:336:LYS:N	2.27	0.68
45:KB:73:MET:O	45:KB:76:VAL:HG22	1.94	0.68
44:KC:275:ILE:HG23	44:KC:368:LEU:HD11	1.75	0.68
44:KK:175:PRO:HG3	44:KK:304:LYS:CG	2.23	0.68
44:KK:413:MET:CE	44:KK:417:GLU:HG3	2.24	0.68
44:KM:298:PRO:HB3	44:KM:307:PRO:HD2	1.74	0.68
44:LC:258:ASN:OD1	45:LF:179:VAL:HG22	1.93	0.68
44:LC:384:ILE:O	44:LC:387:VAL:HG22	1.93	0.68
45:LH:21:TRP:CH2	45:LH:61:PRO:HB3	2.28	0.68
44:LM:119:LEU:HD11	44:LM:156:ARG:CG	2.24	0.68
45:LN:67:ASP:OD1	45:LN:68:LEU:N	2.27	0.68
45:MB:1:MET:O	45:MB:2:ARG:HG2	1.94	0.68
45:MB:68:LEU:HD13	45:MB:147:MET:CE	2.24	0.68
44:MM:123:ARG:HH21	44:MM:160:ASP:HB3	1.58	0.68
44:MM:157:LEU:HB3	44:MM:161:TYR:OH	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:103:LYS:HD2	45:NB:107:THR:OG1	1.93	0.68
45:NB:136:THR:HG22	45:NB:167:PHE:HB2	1.74	0.68
45:NB:317:PHE:CZ	45:NB:326:VAL:HG22	2.29	0.68
44:NC:324:VAL:HG21	45:NF:219:THR:HG21	1.76	0.68
45:ND:285:THR:N	45:ND:288:GLU:OE2	2.27	0.68
45:ND:295:ASP:OD1	45:ND:297:LYS:N	2.17	0.68
44:NE:326:LYS:HD3	45:NH:220:PRO:HD2	1.76	0.68
45:NH:117:LEU:HA	45:NH:120:VAL:HG12	1.76	0.68
44:NK:31:GLN:HG3	44:NK:32:PRO:CD	2.24	0.68
44:NK:286:LEU:HA	44:NK:290:GLU:OE2	1.94	0.68
45:NL:15:GLN:HB3	45:NL:226:ASN:HD21	1.59	0.68
45:NL:193:VAL:HA	45:NL:264:HIS:CE1	2.29	0.68
44:OA:212:ILE:HD11	44:OA:300:ASN:HA	1.76	0.68
45:OB:321:MET:HB2	45:OB:325:GLU:OE2	1.94	0.68
45:OD:28:HIS:CE1	45:OD:241:ARG:HD2	2.28	0.68
45:OD:217:LEU:CD2	45:OD:220:PRO:HG3	2.23	0.68
44:OG:183:GLU:HG2	44:OG:184:PRO:HD3	1.76	0.68
44:OG:292:THR:HG21	44:OG:331:SER:CB	2.24	0.68
44:OI:224:TYR:CZ	45:OJ:323:THR:HG21	2.28	0.68
44:OM:11:GLN:HE22	45:ON:247:ASN:H	1.41	0.68
45:ON:203:ASP:O	45:ON:207:LEU:HG	1.93	0.68
45:PD:58:ARG:NH2	45:QB:280:GLN:O	2.27	0.68
45:PD:109:GLY:O	45:PD:113:ILE:HB	1.93	0.68
44:PE:6:SER:O	44:PE:66:VAL:HG12	1.94	0.68
45:PF:50:TYR:CD2	45:PF:241:ARG:HD3	2.29	0.68
45:PH:135:ILE:CB	45:PH:166:THR:HG22	2.20	0.68
44:PI:311:LYS:HD2	44:PI:342:GLN:HG3	1.75	0.68
45:PJ:390:ARG:O	45:PJ:392:LYS:NZ	2.24	0.68
44:PM:60:LYS:NZ	44:PM:85:GLN:O	2.22	0.68
44:PM:268:MET:HE3	44:PM:379:SER:O	1.94	0.68
44:QC:108:TYR:O	44:QC:112:LYS:NZ	2.27	0.68
45:QF:196:ALA:HB3	45:QF:264:HIS:CE1	2.29	0.68
44:QG:286:LEU:HD23	44:QG:286:LEU:O	1.94	0.68
44:QG:384:ILE:O	44:QG:387:VAL:HG12	1.92	0.68
45:QH:39:ASP:N	45:QH:43:GLN:OE1	2.24	0.68
45:QH:173:PRO:CG	45:QH:380:ARG:HD3	2.24	0.68
44:QI:200:VAL:CA	44:QI:266:HIS:HB2	2.17	0.68
44:QK:7:ILE:O	44:QK:137:VAL:HA	1.94	0.68
45:QL:6:HIS:HB3	45:QL:62:ARG:HH12	1.59	0.68
45:QL:246:LEU:CD1	45:QL:353:ILE:HD13	2.24	0.68
44:QM:108:TYR:HA	44:QM:112:LYS:HE3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:233:MET:HA	45:QN:233:MET:CE	2.24	0.68
45:RB:62:ARG:HH12	45:RB:127:CYS:HA	1.57	0.68
45:RB:301:CYS:HB3	45:RB:377:MET:CE	2.24	0.68
44:RC:349:THR:HG23	45:RD:179:VAL:HA	1.74	0.68
44:RC:401:LYS:O	44:RC:402:ARG:HD3	1.94	0.68
45:RD:52:ASN:HD21	45:RD:62:ARG:HB3	1.58	0.68
45:RD:192:LEU:CD1	45:RD:196:ALA:HB2	2.24	0.68
44:RE:317:MET:SD	44:RE:377:MET:HB3	2.34	0.68
44:RE:326:LYS:HG2	45:RF:220:PRO:HG2	1.76	0.68
45:RF:198:GLU:OE2	45:RF:254:ALA:HB2	1.94	0.68
45:RF:288:GLU:HA	45:RF:291:GLN:NE2	2.08	0.68
44:RG:68:LEU:HD21	44:RG:118:CYS:HB2	1.75	0.68
44:RI:230:LEU:HD11	44:RI:368:LEU:HD21	1.74	0.68
44:RI:259:LEU:HD11	44:RI:316:SER:HB3	1.76	0.68
45:RJ:173:PRO:HG2	45:RJ:380:ARG:HD3	1.75	0.68
45:RJ:309:ARG:HG3	45:RJ:426:GLN:NE2	1.99	0.68
45:RJ:310:TYR:CD1	45:RJ:371:SER:HB2	2.28	0.68
45:RL:315:ALA:O	45:RL:351:SER:HA	1.94	0.68
44:SA:77:GLU:O	44:SA:81:GLY:N	2.26	0.68
44:SA:373:ARG:NH1	44:SA:373:ARG:HA	2.08	0.68
44:SC:353:VAL:HG12	45:SD:177:ASP:HA	1.76	0.68
44:SG:401:LYS:C	44:SG:402:ARG:HD3	2.13	0.68
45:SH:60:VAL:HG11	45:SH:86:ARG:HH22	1.58	0.68
44:SI:123:ARG:NE	44:SI:123:ARG:HA	2.08	0.68
44:SM:31:GLN:NE2	44:SM:33:ASP:HB2	2.04	0.68
45:SN:310:TYR:CE1	45:SN:371:SER:HB2	2.29	0.68
45:TB:87:PRO:HA	45:TB:90:PHE:CE2	2.29	0.68
45:TB:323:THR:HG21	44:TC:224:TYR:H	1.58	0.68
45:TD:272:PRO:CD	45:TD:364:ALA:HA	2.24	0.68
45:TF:3:GLU:CB	45:TF:49:VAL:HA	2.22	0.68
45:TF:238:CYS:SG	45:TF:318:ARG:NE	2.67	0.68
45:TH:49:VAL:HG21	45:TH:241:ARG:HG2	1.75	0.68
45:TH:221:THR:HG23	45:TH:223:GLY:N	2.08	0.68
44:TI:171:ILE:HG23	44:TI:204:LEU:O	1.94	0.68
44:TI:295:ALA:HB1	44:TI:377:MET:SD	2.34	0.68
45:TJ:164:MET:N	45:TJ:197:ASP:OD2	2.26	0.68
44:TK:88:HIS:CE1	44:TK:90:GLU:HG2	2.29	0.68
45:TL:211:CYS:SG	45:TL:217:LEU:HD21	2.33	0.68
45:TL:317:PHE:CA	45:TL:365:VAL:HG22	2.13	0.68
44:TM:292:THR:O	44:TM:296:PHE:N	2.22	0.68
45:TN:183:TYR:OH	45:TN:388:MET:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:249:ASN:OD1	44:UC:250:VAL:N	2.27	0.68
44:UC:270:SER:HA	44:UC:378:ILE:HA	1.73	0.68
45:UF:38:GLY:HA3	45:UF:43:GLN:OE1	1.92	0.68
45:UF:187:LEU:HD11	45:UF:408:PHE:HE1	1.58	0.68
44:UG:69:ASP:OD1	44:UG:71:GLU:N	2.20	0.68
44:UG:344:VAL:HG13	44:UG:347:CYS:HB3	1.75	0.68
44:UG:347:CYS:HA	45:UH:388:MET:SD	2.34	0.68
45:UH:21:TRP:CZ3	45:UH:61:PRO:HB3	2.28	0.68
45:UH:49:VAL:HG11	45:UH:240:LEU:CD2	2.24	0.68
45:UH:174:LYS:HD2	45:UH:175:VAL:HG13	1.75	0.68
45:VB:31:ASP:OD1	45:VB:34:GLY:N	2.27	0.68
45:VB:139:LEU:HD13	45:VB:168:SER:HB3	1.75	0.68
45:VB:163:ILE:HG13	45:VB:251:ARG:HG3	1.75	0.68
44:VC:54:SER:HB3	44:VC:64:ARG:NH2	2.09	0.68
44:VC:93:ILE:HD11	44:VC:121:ARG:HH21	1.57	0.68
44:VC:269:LEU:HD23	44:VC:379:SER:O	1.94	0.68
45:VD:187:LEU:HD11	45:VD:408:PHE:CE1	2.28	0.68
45:VF:102:ALA:CB	45:VF:401:GLU:HB2	2.24	0.68
45:VJ:271:ALA:HB2	45:VJ:298:ASN:ND2	2.09	0.68
44:VK:73:THR:OG1	45:VL:247:ASN:ND2	2.27	0.68
45:VL:237:THR:HG23	45:VL:241:ARG:HH21	1.59	0.68
44:WA:1:MET:O	44:WA:131:GLY:HA3	1.94	0.68
44:WA:258:ASN:ND2	44:WA:352:LYS:HB2	2.07	0.68
44:WC:363:VAL:CG2	44:WC:364:PRO:HD2	2.23	0.68
45:WD:207:LEU:CD2	45:WD:225:LEU:HD23	2.18	0.68
44:WE:261:PRO:HA	45:WH:394:PHE:CE1	2.28	0.68
45:WF:151:LEU:O	45:WF:155:VAL:HG23	1.94	0.68
45:WH:143:THR:HG22	48:WH:501:GDP:O3B	1.94	0.68
44:WK:224:TYR:CE2	45:WL:246:LEU:HD11	2.28	0.68
45:WL:4:ILE:HD11	45:WL:50:TYR:OH	1.94	0.68
12:0S:111:LYS:HE2	45:MB:157:GLU:HG2	1.74	0.68
20:1J:88:GLN:HG2	45:IF:227:HIS:NE2	2.08	0.68
28:2C:67:LYS:HD3	44:LI:81:GLY:HA2	1.76	0.68
24:2O:173:GLU:CG	45:VL:362:LYS:HG2	2.21	0.68
26:2R:248:GLN:HG3	44:CG:372:MET:CE	2.23	0.68
12:3S:271:ASP:HB2	11:6Q:22:LEU:HD21	1.74	0.68
31:4H:169:THR:HG22	44:MI:58:ALA:HA	1.74	0.68
37:5D:57:PRO:C	45:KN:388:MET:HB2	2.14	0.68
37:5D:107:TYR:CD1	44:NM:277:SER:HB2	2.28	0.68
38:5F:111:ASN:HB3	45:NF:44:LEU:HD13	1.76	0.68
39:5K:91:SER:CB	44:JM:430:LYS:HE2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6F:17:PHE:CD2	40:6F:23:ILE:HG13	2.28	0.68
40:6F:17:PHE:CE2	40:6F:23:ILE:HG13	2.29	0.68
41:6G:211:SER:OG	41:6G:215:GLN:NE2	2.26	0.68
35:7R:497:GLN:CB	35:7R:502:ARG:HG2	2.20	0.68
45:AB:358:PRO:HG2	45:AB:361:LEU:HB2	1.76	0.68
45:AF:420:SER:O	45:AF:423:GLN:HG3	1.93	0.68
44:AG:247:ALA:HB2	44:AG:357:TYR:OH	1.94	0.68
45:AJ:16:ILE:HD11	45:AJ:229:VAL:CG1	2.24	0.68
45:AL:372:THR:HA	45:AL:422:TYR:OH	1.93	0.68
44:BA:184:PRO:HG2	44:BA:398:MET:HE1	1.75	0.68
45:BD:208:TYR:CE1	45:BD:225:LEU:HD11	2.29	0.68
45:BF:164:MET:CE	45:BF:164:MET:HA	2.23	0.68
44:BK:1:MET:CE	45:BN:94:GLN:HB3	2.24	0.68
45:BN:238:CYS:HB2	45:BN:318:ARG:NH2	2.09	0.68
45:CB:318:ARG:CB	45:CB:364:ALA:HB3	2.22	0.68
45:CB:398:TYR:HB3	45:CB:403:MET:CE	2.22	0.68
44:CC:204:LEU:HD13	44:CC:231:ILE:HD11	1.76	0.68
44:CE:191:THR:HG21	44:CE:425:LEU:HD21	1.76	0.68
45:CF:65:LEU:HD22	45:CF:90:PHE:HE1	1.59	0.68
45:CF:87:PRO:HA	45:CF:90:PHE:HD2	1.58	0.68
45:CF:200:MET:HG2	45:CF:266:PHE:CB	2.20	0.68
45:CF:256:ASN:OD1	44:CG:181:VAL:HG12	1.93	0.68
45:CJ:324:LYS:HE3	44:CK:210:TYR:CE2	2.29	0.68
44:CK:174:SER:OG	44:CK:177:VAL:O	2.10	0.68
44:CK:192:HIS:ND1	44:CK:424:ASP:OD2	2.26	0.68
44:CM:242:LEU:HD11	44:CM:252:ILE:CG1	2.23	0.68
44:CM:288:VAL:HA	44:CM:291:ILE:CG1	2.24	0.68
44:DA:63:PRO:HG2	44:DA:87:PHE:HA	1.74	0.68
45:DB:86:ARG:HB3	45:DB:89:ASN:HB2	1.76	0.68
44:DC:54:SER:OG	44:DC:62:VAL:HB	1.93	0.68
44:DC:88:HIS:CE1	44:DC:90:GLU:HG2	2.28	0.68
45:DD:271:ALA:HB1	45:DD:272:PRO:HA	1.74	0.68
45:DF:5:VAL:HG12	45:DF:62:ARG:HG2	1.76	0.68
45:DF:385:PHE:HA	45:DF:388:MET:HE2	1.75	0.68
45:DH:302:ALA:HB3	45:DH:377:MET:CE	2.24	0.68
45:DJ:86:ARG:HA	45:EJ:281:TYR:CD2	2.29	0.68
45:DJ:302:ALA:HB3	45:DJ:377:MET:HE1	1.75	0.68
45:DL:106:TYR:CE2	45:DL:403:MET:HE1	2.29	0.68
45:DL:310:TYR:HB2	45:DL:341:PHE:CE2	2.29	0.68
44:DM:320:ARG:HA	44:DM:356:ASN:O	1.94	0.68
44:EA:32:PRO:HB3	44:EA:83:TYR:CE1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:257:LEU:HD11	45:ED:314:SER:HB2	1.74	0.68
45:EF:253:LEU:O	45:EF:257:LEU:HD13	1.93	0.68
44:EG:5:ILE:HD11	44:EG:126:ALA:HA	1.75	0.68
44:EG:75:ILE:HG22	44:EG:79:ARG:HH22	1.55	0.68
44:EK:79:ARG:HD3	44:EK:92:LEU:HD11	1.76	0.68
45:EL:22:GLU:HG2	45:EL:81:PHE:HB2	1.76	0.68
45:EN:102:ALA:HB1	45:EN:401:GLU:HB2	1.73	0.68
45:EN:314:SER:OG	45:EN:350:LYS:HB3	1.94	0.68
44:FA:202:VAL:HG11	44:FA:270:SER:OG	1.94	0.68
44:FA:254:GLU:CG	45:FD:98:GLY:HA2	2.21	0.68
44:FC:215:ARG:CZ	44:FC:299:ALA:HB1	2.24	0.68
45:FH:274:THR:HG21	45:FH:282:ARG:NE	2.09	0.68
44:FI:221:ARG:NH1	45:FJ:324:LYS:HB3	2.08	0.68
44:FK:404:PHE:CZ	45:FL:259:PRO:HG3	2.29	0.68
44:GA:288:VAL:HG21	44:GA:323:VAL:CG2	2.24	0.68
45:GB:60:VAL:HG21	45:GB:86:ARG:CG	2.24	0.68
45:GB:114:ASP:OD1	45:GB:115:SER:N	2.26	0.68
44:GC:118:CYS:O	44:GC:122:ILE:N	2.26	0.68
45:GD:269:GLY:HA2	45:GD:300:MET:HE2	1.76	0.68
44:GE:54:SER:HB3	44:GE:62:VAL:HG13	1.76	0.68
44:GI:5:ILE:HD12	44:GI:132:LEU:HD12	1.74	0.68
45:GJ:186:THR:O	45:GJ:189:VAL:HG12	1.94	0.68
44:HA:325:PRO:HG2	45:HD:222:TYR:CE1	2.29	0.68
45:HB:127:CYS:SG	45:HB:130:LEU:HB2	2.33	0.68
44:HC:422:ARG:NH1	44:HC:426:ALA:HB2	2.08	0.68
45:HF:202:ILE:HD11	45:HF:268:ILE:HD11	1.74	0.68
44:HI:294:SER:HA	44:HI:297:GLU:HG3	1.76	0.68
45:HJ:193:VAL:HG23	45:HJ:264:HIS:HE1	1.58	0.68
45:HJ:306:ARG:CZ	45:HJ:307:HIS:HE1	2.06	0.68
44:HK:4:VAL:HG11	44:HK:252:ILE:CD1	2.24	0.68
44:HK:322:ASP:OD1	44:HK:373:ARG:NE	2.24	0.68
45:ID:210:ILE:HD12	45:ID:300:MET:HG3	1.75	0.68
45:ID:302:ALA:HB3	45:ID:377:MET:CE	2.24	0.68
44:IE:238:LEU:HD21	44:IE:255:PHE:HE2	1.58	0.68
45:IF:257:LEU:O	45:IF:259:PRO:HD3	1.94	0.68
45:IJ:113:ILE:CD1	45:IJ:150:LEU:HD22	2.24	0.68
45:IJ:170:VAL:HG21	45:IJ:377:MET:SD	2.34	0.68
44:IM:5:ILE:HG12	44:IM:64:ARG:HB3	1.76	0.68
44:IM:8:HIS:HB3	44:IM:13:GLY:O	1.93	0.68
44:IM:212:ILE:HD11	44:IM:301:MET:O	1.92	0.68
44:IM:270:SER:CB	44:IM:378:ILE:HD13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:64:ILE:HG22	45:IN:66:MET:HE2	1.75	0.68
45:JB:36:TYR:CE2	45:JB:44:LEU:HD11	2.29	0.68
45:JB:425:TYR:HA	45:JB:428:ALA:HB2	1.74	0.68
44:JG:1:MET:HE2	45:JJ:94:GLN:HG2	1.76	0.68
44:JG:384:ILE:O	44:JG:387:VAL:HG22	1.94	0.68
45:JH:253:LEU:O	45:JH:257:LEU:HB2	1.93	0.68
45:JJ:7:ILE:HB	45:JJ:135:ILE:CD1	2.24	0.68
44:JM:141:VAL:HG13	44:JM:190:SER:OG	1.93	0.68
44:KA:178:SER:HB3	45:KB:347:ASN:HD21	1.57	0.68
44:KI:100:ALA:O	45:KJ:255:VAL:HG21	1.94	0.68
44:KK:276:ILE:HD11	44:KK:280:LYS:HG2	1.76	0.68
44:KM:171:ILE:HG23	44:KM:204:LEU:O	1.94	0.68
44:LA:72:PRO:HG2	45:LB:1:MET:SD	2.34	0.68
44:LE:325:PRO:O	44:LE:328:VAL:HG12	1.94	0.68
45:LF:131:GLN:O	45:LF:163:ILE:HG22	1.94	0.68
45:LF:156:ARG:HG3	45:LF:195:ASN:HB3	1.76	0.68
44:LG:269:LEU:HD23	44:LG:269:LEU:H	1.59	0.68
45:LH:107:THR:OG1	45:LH:108:GLU:OE1	2.12	0.68
45:LN:166:THR:OG1	45:LN:199:CYS:SG	2.48	0.68
45:MD:134:GLN:HE22	45:MD:233:MET:HG2	1.58	0.68
44:ME:28:HIS:CE1	44:ME:49:PHE:HA	2.29	0.68
44:ME:108:TYR:HA	44:ME:112:LYS:HZ1	1.59	0.68
44:MG:188:ILE:O	44:MG:191:THR:HG22	1.93	0.68
45:ML:7:ILE:HD12	45:ML:151:LEU:HD22	1.73	0.68
44:MM:115:VAL:O	44:MM:119:LEU:HD23	1.93	0.68
44:MM:204:LEU:HD23	44:MM:302:MET:CE	2.24	0.68
44:MM:362:VAL:HG11	44:MM:370:LYS:HB3	1.75	0.68
45:MN:73:MET:SD	45:MN:92:PHE:HB3	2.33	0.68
45:MN:139:LEU:HD22	45:MN:188:SER:CB	2.24	0.68
44:NA:128:ASN:ND2	44:OA:285:GLN:OE1	2.26	0.68
45:NB:6:HIS:HE1	45:NB:8:GLN:HB2	1.58	0.68
45:NB:309:ARG:NH2	45:NB:343:GLU:OE1	2.26	0.68
44:NE:137:VAL:HG13	44:NE:168:GLY:HA2	1.76	0.68
45:NF:144:GLY:N	48:NF:501:GDP:O1B	2.26	0.68
44:NK:91:GLN:OE1	44:NK:121:ARG:NH2	2.27	0.68
45:NL:135:ILE:CG1	45:NL:164:MET:HE3	2.23	0.68
45:NN:1:MET:O	45:NN:2:ARG:HD3	1.94	0.68
44:OC:287:SER:O	44:OC:291:ILE:HG23	1.93	0.68
44:OG:149:LEU:HD12	44:OG:153:LEU:HD11	1.74	0.68
45:OH:27:GLU:O	45:OH:43:GLN:NE2	2.23	0.68
45:OH:314:SER:HB2	45:OH:350:LYS:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OM:76:ASP:O	44:OM:80:THR:N	2.27	0.68
45:ON:3:GLU:HA	45:ON:49:VAL:HG23	1.76	0.68
44:PE:88:HIS:CE1	44:PE:90:GLU:HG2	2.29	0.68
44:PE:179:THR:O	45:PF:350:LYS:HA	1.93	0.68
44:PE:234:VAL:O	44:PE:238:LEU:N	2.20	0.68
44:PI:144:GLY:O	44:PI:148:GLY:N	2.26	0.68
44:PK:202:VAL:HA	44:PK:268:MET:O	1.94	0.68
44:QA:328:VAL:HG11	44:QA:353:VAL:HG21	1.74	0.68
44:QC:288:VAL:CA	44:QC:291:ILE:HG12	2.21	0.68
44:QE:288:VAL:HA	44:QE:291:ILE:HG12	1.75	0.68
44:QE:390:ARG:O	44:QE:394:LYS:N	2.19	0.68
44:QG:172:TYR:HB3	44:QG:173:PRO:HD2	1.74	0.68
44:QG:326:LYS:HG2	45:QH:220:PRO:HG2	1.76	0.68
45:QH:186:THR:HA	45:QH:189:VAL:HG12	1.75	0.68
44:QI:289:ALA:O	44:QI:292:THR:HG22	1.93	0.68
45:QL:86:ARG:NE	45:QL:86:ARG:HA	2.08	0.68
45:QL:105:HIS:NE2	45:QL:150:LEU:HD13	2.08	0.68
44:RA:188:ILE:HD11	44:RA:395:PHE:HB2	1.76	0.68
45:RD:64:ILE:HA	45:RD:89:ASN:CB	2.15	0.68
45:RF:318:ARG:HB3	45:RF:356:ILE:O	1.93	0.68
45:RH:67:ASP:OD1	45:RH:68:LEU:N	2.26	0.68
44:RI:353:VAL:HG12	45:RJ:177:ASP:HA	1.73	0.68
44:RK:141:VAL:HG11	44:RK:172:TYR:HA	1.73	0.68
45:RL:131:GLN:NE2	45:RL:249:ASP:HB2	2.09	0.68
45:RL:210:ILE:HD11	45:RL:298:ASN:CA	2.22	0.68
45:SB:22:GLU:O	45:SB:25:SER:HB2	1.94	0.68
45:SB:117:LEU:HD13	45:SB:154:LYS:HD2	1.75	0.68
45:SD:1:MET:O	45:SD:2:ARG:HG2	1.94	0.68
45:SD:253:LEU:O	45:SD:256:ASN:N	2.25	0.68
45:SF:387:ALA:O	45:SF:390:ARG:HG2	1.94	0.68
44:SI:156:ARG:HA	44:SI:159:VAL:CG2	2.22	0.68
44:SK:54:SER:HB3	44:SK:64:ARG:CZ	2.23	0.68
45:SN:229:VAL:HG12	45:SN:233:MET:CE	2.23	0.68
44:TA:269:LEU:HD23	44:TA:379:SER:O	1.94	0.68
44:TE:14:ILE:HD11	44:TE:68:LEU:O	1.94	0.68
45:TH:416:ASN:O	45:TH:420:SER:N	2.23	0.68
45:TJ:113:ILE:CD1	45:TJ:150:LEU:HD22	2.23	0.68
44:TM:256:GLN:HB2	44:TM:260:VAL:CG1	2.23	0.68
44:UA:264:ARG:NH1	44:UA:428:LEU:HD13	2.08	0.68
45:UB:1:MET:O	45:UB:2:ARG:HG2	1.93	0.68
45:UB:399:THR:HA	45:UB:403:MET:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:271:SER:N	44:UC:377:MET:O	2.20	0.68
45:UD:105:HIS:CD2	45:UD:150:LEU:HD12	2.28	0.68
44:UE:209:ILE:HD11	44:UE:302:MET:SD	2.34	0.68
45:UF:109:GLY:O	45:UF:113:ILE:N	2.26	0.68
45:UH:203:ASP:OD1	45:UH:204:ASN:N	2.25	0.68
45:UJ:117:LEU:HA	45:UJ:120:VAL:HB	1.76	0.68
45:UL:208:TYR:CZ	45:UL:225:LEU:HD11	2.29	0.68
44:UM:88:HIS:CE1	44:UM:90:GLU:HG2	2.29	0.68
44:VC:68:LEU:CD2	44:VC:120:ASP:HA	2.22	0.68
45:VH:11:GLN:HG3	45:VH:72:THR:HG21	1.75	0.68
45:VH:286:VAL:HG11	45:VH:325:GLU:HG2	1.75	0.68
45:VJ:4:ILE:O	45:VJ:62:ARG:NH2	2.27	0.68
45:VL:42:LEU:CA	45:VL:45:GLU:HG3	2.24	0.68
45:VL:107:THR:CG2	45:VL:401:GLU:HB3	2.23	0.68
45:VL:309:ARG:NH2	45:VL:342:VAL:HG23	2.09	0.68
44:VM:14:ILE:CD1	44:VM:69:ASP:HB2	2.24	0.68
45:VN:61:PRO:CD	45:VN:84:LEU:HB3	2.24	0.68
45:VN:73:MET:CE	45:VN:92:PHE:HB3	2.23	0.68
44:WA:319:TYR:CE2	44:WA:328:VAL:HG22	2.28	0.68
44:WC:141:VAL:HG23	44:WC:190:SER:OG	1.93	0.68
44:WG:185:TYR:HE2	44:WG:404:PHE:HB2	1.56	0.68
44:WG:407:TRP:CZ3	45:WH:255:VAL:HA	2.28	0.68
44:WK:385:ALA:HA	44:WK:388:PHE:HD2	1.57	0.68
45:WL:233:MET:O	45:WL:236:VAL:HG12	1.93	0.68
45:WL:318:ARG:NH1	45:WL:358:PRO:HG3	2.09	0.68
44:WM:86:LEU:HD23	44:WM:87:PHE:CE2	2.28	0.68
45:WN:200:MET:CE	45:WN:268:ILE:HG12	2.24	0.68
8:0G:105:TYR:CE2	44:JM:81:GLY:HA3	2.29	0.68
8:1G:142:LYS:HE2	44:JA:84:ARG:CD	2.22	0.68
21:1K:186:LEU:HD21	45:GD:360:GLY:HA2	1.75	0.68
32:2I:46:TYR:HD2	45:GH:291:GLN:HB3	1.58	0.68
12:2S:123:ALA:HB2	45:AJ:427:ASP:HB2	1.76	0.68
35:4R:246:GLN:HG2	44:BE:58:ALA:HB1	1.76	0.68
37:5D:109:ASN:N	44:NM:280:LYS:N	2.42	0.68
38:5E:209:ARG:HH12	44:LC:424:ASP:HA	1.58	0.68
38:5F:46:LEU:HD23	44:OC:324:VAL:HG23	1.76	0.68
35:5R:536:ARG:NH1	35:5R:608:ALA:O	2.27	0.68
41:6G:263:SER:O	44:VA:339:ARG:NH1	2.27	0.68
35:6R:94:ARG:HH22	44:AM:41:THR:HG21	1.53	0.68
35:6R:242:ASN:HB2	44:BM:57:GLY:HA3	1.74	0.68
35:7R:82:GLN:HB2	35:7R:87:LYS:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:8P:157:UNK:O	43:8P:161:UNK:N	2.27	0.68
45:AB:198:GLU:OE2	45:AB:254:ALA:HB2	1.94	0.68
44:AE:402:ARG:HB2	44:AE:405:VAL:HG21	1.76	0.68
45:AF:113:ILE:HD13	45:AF:150:LEU:CD2	2.24	0.68
44:AI:275:ILE:HG23	44:AI:368:LEU:HD11	1.75	0.68
44:AK:169:PHE:CE1	44:AK:235:ILE:HD12	2.29	0.68
45:AN:8:GLN:HG2	45:AN:136:THR:OG1	1.94	0.68
44:BC:37:PRO:O	44:BC:38:SER:OG	2.11	0.68
44:BE:204:LEU:HD13	44:BE:231:ILE:HD12	1.76	0.68
44:BE:404:PHE:CE2	45:BF:259:PRO:HA	2.28	0.68
44:BG:102:ASN:ND2	44:BG:105:ARG:HG3	2.08	0.68
44:CG:209:ILE:HG12	44:CG:302:MET:CE	2.24	0.68
44:CI:350:GLY:CA	45:CJ:179:VAL:HG12	2.24	0.68
44:CK:175:PRO:HD2	44:CK:207:GLU:OE1	1.94	0.68
44:CK:319:TYR:O	44:CK:356:ASN:N	2.25	0.68
45:CL:248:SER:CA	45:CL:252:LYS:HD2	2.19	0.68
45:CN:149:THR:HA	45:CN:152:ILE:CG1	2.24	0.68
44:DA:141:VAL:CG1	44:DA:172:TYR:HA	2.24	0.68
45:DB:6:HIS:NE2	45:DB:8:GLN:OE1	2.26	0.68
45:DB:238:CYS:HB2	45:DB:318:ARG:NH2	2.08	0.68
44:DG:28:HIS:CE1	44:DG:243:ARG:HD2	2.29	0.68
45:DH:91:VAL:HG21	45:DH:116:VAL:CB	2.24	0.68
45:DH:322:SER:HB3	45:DH:323:THR:C	2.14	0.68
44:DM:275:ILE:HG23	44:DM:368:LEU:CD1	2.24	0.68
45:DN:295:ASP:OD2	45:DN:297:LYS:HE2	1.94	0.68
44:EA:22:GLU:CG	44:EA:83:TYR:HE2	2.07	0.68
44:EC:174:SER:HB2	44:EC:177:VAL:O	1.94	0.68
45:ED:182:PRO:O	45:ED:186:THR:N	2.27	0.68
45:ED:238:CYS:HB2	45:ED:318:ARG:NH2	2.09	0.68
44:EE:209:ILE:HA	44:EE:212:ILE:HB	1.75	0.68
44:EE:416:GLY:O	44:EE:419:SER:OG	2.07	0.68
45:EF:61:PRO:HD2	45:EF:84:LEU:O	1.94	0.68
45:EF:135:ILE:HB	45:EF:166:THR:HA	1.76	0.68
44:EG:200:VAL:HG13	44:EG:268:MET:CE	2.22	0.68
44:EI:311:LYS:HB2	44:EI:344:VAL:HG22	1.76	0.68
45:EN:202:ILE:HG23	45:EN:300:MET:SD	2.34	0.68
45:EN:253:LEU:HA	45:EN:257:LEU:HD13	1.75	0.68
45:FB:139:LEU:O	45:FB:171:PRO:HD3	1.94	0.68
44:FC:291:ILE:HG13	44:FC:292:THR:N	2.09	0.68
44:FC:392:ASP:O	44:FC:396:ASP:N	2.26	0.68
45:FF:208:TYR:CZ	45:FF:225:LEU:HD11	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:323:VAL:O	44:FK:355:ILE:HD11	1.92	0.68
45:FL:36:TYR:CD1	45:FL:44:LEU:HD21	2.28	0.68
44:GE:217:LEU:HA	44:GE:277:SER:HB3	1.76	0.68
44:GG:213:CYS:HA	44:GG:217:LEU:HD12	1.76	0.68
44:GI:1:MET:HE1	45:GL:94:GLN:HA	1.76	0.68
45:GJ:174:LYS:HB2	45:GJ:205:GLU:OE1	1.94	0.68
44:GK:14:ILE:HD11	44:GK:69:ASP:HB2	1.75	0.68
44:GK:265:ILE:HG23	44:GK:432:TYR:OH	1.93	0.68
45:GL:318:ARG:CZ	45:GL:364:ALA:HB3	2.24	0.68
45:HB:19:LYS:O	45:HB:23:VAL:HG23	1.94	0.68
44:HC:71:GLU:OE2	45:HD:2:ARG:NH2	2.27	0.68
45:HD:226:ASN:O	45:HD:230:SER:N	2.23	0.68
45:HD:318:ARG:CB	45:HD:364:ALA:HB3	2.23	0.68
44:HG:308:ARG:HH12	44:HG:340:THR:HG23	1.59	0.68
44:HI:195:LEU:HD22	44:HI:196:GLU:HG2	1.75	0.68
44:HI:328:VAL:O	44:HI:332:ILE:HG12	1.94	0.68
44:HM:311:LYS:HB2	44:HM:382:THR:CG2	2.24	0.68
45:HN:190:HIS:O	45:HN:193:VAL:HG12	1.92	0.68
45:IB:284:LEU:HB3	45:IB:363:MET:HE2	1.74	0.68
44:IC:69:ASP:OD1	44:IC:70:LEU:N	2.26	0.68
45:IJ:204:ASN:OD1	45:IJ:205:GLU:N	2.27	0.68
45:IJ:404:ASP:HB2	45:IJ:406:MET:SD	2.35	0.68
45:IL:178:THR:O	45:IL:181:GLU:HG3	1.93	0.68
45:IN:203:ASP:O	45:IN:207:LEU:HG	1.94	0.68
45:JB:330:MET:HG2	45:JB:349:ILE:HG21	1.75	0.68
44:JC:256:GLN:O	44:JC:260:VAL:HG12	1.94	0.68
44:JE:258:ASN:OD1	45:JH:179:VAL:HG22	1.94	0.68
44:JE:285:GLN:C	44:JE:286:LEU:HD23	2.15	0.68
44:JE:413:MET:CE	44:JE:417:GLU:HB2	2.24	0.68
45:JF:208:TYR:CE1	45:JF:225:LEU:HD11	2.28	0.68
44:JI:73:THR:HA	45:JJ:46:ARG:NH2	2.08	0.68
44:JK:224:TYR:HD1	45:JL:323:THR:HG21	1.58	0.68
45:JL:113:ILE:O	45:JL:116:VAL:HG12	1.94	0.68
44:JM:88:HIS:HE1	44:JM:90:GLU:HG2	1.58	0.68
44:KC:73:THR:HB	45:KD:247:ASN:ND2	2.09	0.68
45:KD:7:ILE:HD11	45:KD:135:ILE:HD12	1.76	0.68
44:KE:56:THR:HA	44:LE:285:GLN:HE22	1.58	0.68
44:KI:242:LEU:HD21	44:KI:252:ILE:HG12	1.75	0.68
44:KK:292:THR:HG21	44:KK:331:SER:HB2	1.73	0.68
44:KM:134:GLY:HA2	44:KM:164:LYS:CE	2.23	0.68
45:KN:100:ASN:HD22	45:KN:103:LYS:HZ2	1.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:316:LEU:HB2	45:KN:366:THR:HG22	1.76	0.68
44:LA:273:ALA:HB1	44:LA:274:PRO:HA	1.76	0.68
44:LA:277:SER:OG	44:LA:280:LYS:HG2	1.94	0.68
45:LB:151:LEU:O	45:LB:155:VAL:HG12	1.94	0.68
44:LE:216:ASN:HA	44:LE:280:LYS:HZ2	1.59	0.68
44:LG:274:PRO:HG3	44:LG:286:LEU:HD22	1.76	0.68
45:LH:345:ILE:HG13	45:LH:345:ILE:O	1.93	0.68
44:LI:226:ASN:HA	44:LI:229:ARG:HG3	1.76	0.68
45:LN:145:SER:O	45:LN:149:THR:HG23	1.94	0.68
45:MB:288:GLU:O	45:MB:291:GLN:HG3	1.93	0.68
44:MC:179:THR:HG23	45:MD:351:SER:OG	1.94	0.68
45:MD:3:GLU:OE2	45:MD:127:CYS:HB2	1.94	0.68
45:MD:144:GLY:N	48:MD:501:GDP:O1B	2.27	0.68
44:ME:237:SER:OG	44:ME:320:ARG:HD3	1.94	0.68
44:MI:34:GLY:O	44:MI:60:LYS:HA	1.93	0.68
44:MK:262:TYR:HB3	44:MK:263:PRO:HD2	1.76	0.68
44:MM:292:THR:HG21	44:MM:331:SER:HB2	1.76	0.68
45:NF:287:PRO:O	45:NF:290:THR:HG22	1.94	0.68
44:NG:398:MET:HE2	45:NH:346:PRO:HD2	1.76	0.68
44:NI:108:TYR:HA	44:NI:112:LYS:NZ	2.09	0.68
44:NK:70:LEU:HD11	44:NK:149:LEU:HD21	1.73	0.68
44:OA:97:GLU:OE1	45:OB:2:ARG:HG2	1.93	0.68
45:OD:130:LEU:HD23	45:OD:131:GLN:N	2.09	0.68
45:OD:150:LEU:HD11	45:OD:154:LYS:HE3	1.75	0.68
44:OG:100:ALA:HB1	45:OH:252:LYS:HA	1.76	0.68
44:OG:136:LEU:HD23	44:OG:167:LEU:HB2	1.76	0.68
44:OG:288:VAL:HA	44:OG:291:ILE:HD11	1.76	0.68
45:OH:48:ASN:O	45:OH:62:ARG:NH1	2.27	0.68
44:OI:319:TYR:HB2	44:OI:355:ILE:HD13	1.76	0.68
44:OK:229:ARG:HD2	44:OK:363:VAL:HG11	1.76	0.68
45:PB:249:ASP:OD1	45:PB:252:LYS:N	2.19	0.68
45:PB:326:VAL:HG11	45:PB:353:ILE:HD11	1.75	0.68
44:PC:259:LEU:HD21	44:PC:316:SER:CB	2.24	0.68
45:PF:180:VAL:O	45:PF:180:VAL:HG22	1.94	0.68
44:PG:93:ILE:CG1	44:PG:117:LEU:HD22	2.24	0.68
45:PN:293:MET:HE1	45:PN:365:VAL:HG12	1.76	0.68
44:QA:352:LYS:HD2	45:QB:178:THR:HA	1.76	0.68
44:QC:28:HIS:HE1	44:QC:243:ARG:HD2	1.59	0.68
45:QD:73:MET:HE3	45:QD:90:PHE:HB3	1.76	0.68
44:QK:7:ILE:HD12	44:QK:66:VAL:CG1	2.21	0.68
45:QL:416:ASN:O	45:QL:420:SER:N	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:205:ASP:OD2	44:QM:304:LYS:N	2.26	0.68
44:QM:260:VAL:HG13	44:QM:265:ILE:O	1.94	0.68
45:QN:104:GLY:O	45:QN:109:GLY:HA3	1.93	0.68
44:RA:315:CYS:N	44:RA:350:GLY:O	2.24	0.68
45:RB:165:GLU:HG3	45:RB:250:LEU:HD21	1.77	0.68
45:RB:265:PHE:HB2	45:RB:374:ILE:HD13	1.76	0.68
45:RB:265:PHE:HB2	45:RB:374:ILE:CD1	2.24	0.68
44:RE:434:GLU:O	44:RE:437:ILE:HG12	1.94	0.68
44:RI:205:ASP:OD1	44:RI:303:ALA:HA	1.93	0.68
45:RL:285:THR:O	45:RL:289:LEU:N	2.24	0.68
45:SB:312:THR:N	45:SB:370:ASN:O	2.22	0.68
44:SC:175:PRO:HB2	44:SC:176:GLN:OE1	1.93	0.68
44:SE:423:GLU:O	44:SE:427:ALA:N	2.25	0.68
45:SH:28:HIS:HA	45:SH:43:GLN:HG2	1.75	0.68
45:SJ:210:ILE:O	45:SJ:215:LEU:N	2.23	0.68
44:SK:284:GLU:HG3	44:SK:286:LEU:CD2	2.21	0.68
44:TA:9:VAL:HG21	44:TA:149:LEU:HB2	1.76	0.68
44:TE:36:MET:HG3	44:TE:61:HIS:HE1	1.59	0.68
44:TE:258:ASN:CG	45:TF:179:VAL:HG12	2.15	0.68
44:TE:271:SER:OG	44:TE:302:MET:N	2.27	0.68
45:TF:135:ILE:HG13	45:TF:152:ILE:HD11	1.74	0.68
44:TG:141:VAL:CG1	44:TG:187:SER:HA	2.24	0.68
45:TJ:5:VAL:HG22	45:TJ:133:PHE:CD1	2.29	0.68
44:TM:288:VAL:HG21	44:TM:323:VAL:HG21	1.76	0.68
45:TN:217:LEU:HD11	45:TN:220:PRO:HG3	1.76	0.68
44:UA:60:LYS:NZ	44:UA:61:HIS:O	2.20	0.68
44:UA:68:LEU:CD2	44:UA:153:LEU:HD11	2.23	0.68
44:UA:136:LEU:HD23	44:UA:167:LEU:HB2	1.76	0.68
44:UG:194:LEU:O	44:UG:194:LEU:HD23	1.92	0.68
45:UH:20:PHE:O	45:UH:24:ILE:HD12	1.93	0.68
45:UL:334:GLN:HG3	45:UL:341:PHE:CE2	2.29	0.68
44:UM:191:THR:HA	44:UM:194:LEU:CG	2.23	0.68
44:UM:202:VAL:HA	44:UM:268:MET:O	1.93	0.68
44:VA:247:ALA:HB1	45:VD:222:TYR:CE2	2.29	0.68
45:VB:286:VAL:CG1	45:VB:287:PRO:CD	2.70	0.68
44:VE:142:GLY:HA2	44:VE:186:ASN:OD1	1.94	0.68
45:VJ:303:ALA:H	45:VJ:377:MET:CE	2.07	0.68
44:VK:22:GLU:HA	44:VK:25:CYS:HG	1.57	0.68
44:VM:171:ILE:HG23	44:VM:204:LEU:O	1.94	0.68
45:VN:139:LEU:HD11	45:VN:168:SER:HB3	1.74	0.68
44:WA:53:PHE:HE2	44:WA:63:PRO:HG3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:105:HIS:CD2	45:WB:150:LEU:HB2	2.29	0.68
45:WD:283:ALA:O	45:WD:288:GLU:HG3	1.93	0.68
44:WE:70:LEU:HD11	44:WE:149:LEU:HD23	1.75	0.68
44:WE:222:PRO:HG2	45:WF:324:LYS:CE	2.24	0.68
44:WK:177:VAL:HG13	45:WL:327:ASP:HB3	1.76	0.68
2:0A:36:ARG:HD3	45:MB:356:ILE:HD11	1.74	0.67
25:1P:168:ARG:HH12	44:TI:370:LYS:H	1.39	0.67
12:1S:42:ASN:O	44:WC:124:LYS:HE3	1.93	0.67
13:2T:74:ILE:HD12	44:MG:159:VAL:CG2	2.12	0.67
6:3E:53:LYS:NZ	35:6R:382:TYR:HE1	1.92	0.67
24:3O:369:LEU:HD23	44:UI:370:LYS:HE3	1.74	0.67
37:5D:52:VAL:O	44:KK:439:THR:HA	1.93	0.67
11:5Q:116:PRO:HG3	44:AK:263:PRO:CG	2.24	0.67
35:5R:268:GLU:OE1	45:DJ:279:GLN:NE2	2.27	0.67
35:7R:107:PRO:HA	45:BD:360:GLY:HA3	1.75	0.67
35:7R:428:GLY:HA2	35:7R:506:LEU:HB2	1.75	0.67
44:AA:326:LYS:HE2	45:AD:218:THR:O	1.93	0.67
44:AA:407:TRP:CZ3	45:AB:255:VAL:HA	2.28	0.67
45:AD:60:VAL:HG23	45:AD:84:LEU:O	1.93	0.67
44:AG:88:HIS:CE1	44:AG:90:GLU:HG2	2.28	0.67
45:AH:6:HIS:O	45:AH:63:ALA:HA	1.92	0.67
44:AK:99:ALA:O	44:AK:105:ARG:HD3	1.94	0.67
44:BC:141:VAL:HG11	44:BC:172:TYR:HA	1.75	0.67
44:BE:121:ARG:HH11	44:BE:121:ARG:HG2	1.59	0.67
45:BF:142:GLY:N	48:BF:502:GDP:O2B	2.27	0.67
44:BI:222:PRO:CD	45:BJ:324:LYS:HD3	2.23	0.67
44:BK:205:ASP:OD2	44:BK:304:LYS:N	2.26	0.67
44:BM:36:MET:SD	44:BM:37:PRO:HD2	2.34	0.67
44:BM:221:ARG:HH22	45:BN:286:VAL:HG21	1.59	0.67
45:BN:36:TYR:CE1	45:BN:44:LEU:HD11	2.29	0.67
45:BN:282:ARG:NH1	45:BN:292:GLN:OE1	2.27	0.67
44:CA:326:LYS:HG2	45:CB:220:PRO:HD2	1.76	0.67
45:CB:314:SER:HB2	45:CB:350:LYS:HD3	1.75	0.67
45:CD:61:PRO:HG2	45:CD:84:LEU:HB3	1.76	0.67
45:CD:105:HIS:CE1	45:CD:150:LEU:HD12	2.29	0.67
45:CD:256:ASN:OD1	44:CE:181:VAL:HG22	1.94	0.67
44:CI:202:VAL:HA	44:CI:268:MET:O	1.94	0.67
45:CJ:318:ARG:HH11	45:CJ:358:PRO:HG3	1.58	0.67
45:CL:94:GLN:OE1	45:CL:94:GLN:N	2.26	0.67
45:CN:116:VAL:O	45:CN:120:VAL:N	2.25	0.67
44:DA:288:VAL:HA	44:DA:291:ILE:HG12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:288:GLU:O	45:DB:291:GLN:HG3	1.93	0.67
46:DB:502:GTP:O2B	44:DC:140:SER:OG	2.11	0.67
45:DD:273:LEU:H	45:DD:292:GLN:HE22	1.39	0.67
44:DE:36:MET:SD	44:DE:37:PRO:HD2	2.34	0.67
44:DE:265:ILE:HG13	44:DE:432:TYR:CE1	2.29	0.67
45:DF:238:CYS:HA	45:DF:241:ARG:NH2	2.08	0.67
44:DI:63:PRO:HG2	44:DI:86:LEU:HG	1.76	0.67
45:DN:370:ASN:OD1	45:DN:422:TYR:OH	2.12	0.67
45:ED:289:LEU:HD21	45:ED:363:MET:CE	2.24	0.67
45:EF:5:VAL:HG12	45:EF:62:ARG:HD2	1.75	0.67
45:EF:159:TYR:HB3	45:EF:162:ARG:CG	2.24	0.67
44:EG:108:TYR:HA	44:EG:112:LYS:HE3	1.76	0.67
45:EH:141:GLY:HA3	48:EH:501:GDP:PB	2.34	0.67
45:FD:149:THR:O	45:FD:153:SER:N	2.26	0.67
45:FD:151:LEU:HA	45:FD:154:LYS:NZ	2.09	0.67
44:FG:69:ASP:OD1	44:FG:71:GLU:N	2.24	0.67
45:FJ:302:ALA:HB3	45:FJ:377:MET:CE	2.24	0.67
45:FJ:313:ALA:HB3	45:FJ:349:ILE:CD1	2.24	0.67
44:FK:270:SER:CB	44:FK:378:ILE:HG13	2.24	0.67
45:FN:273:LEU:O	45:FN:282:ARG:NH1	2.27	0.67
45:GB:416:ASN:OD1	45:GB:417:ASP:N	2.26	0.67
44:GI:332:ILE:O	44:GI:335:ILE:HG22	1.94	0.67
44:HA:115:VAL:HG22	44:HA:119:LEU:HD23	1.76	0.67
45:HB:286:VAL:O	45:HB:289:LEU:N	2.27	0.67
45:HD:293:MET:SD	45:HD:367:PHE:HB2	2.33	0.67
44:HG:256:GLN:OE1	44:HG:256:GLN:N	2.27	0.67
44:HI:53:PHE:CE2	44:HI:63:PRO:HG3	2.30	0.67
44:HI:185:TYR:O	44:HI:188:ILE:HG22	1.93	0.67
45:HJ:310:TYR:CD1	45:HJ:371:SER:HB3	2.28	0.67
44:HK:407:TRP:CH2	45:HL:258:ILE:HB	2.29	0.67
45:HN:272:PRO:HD3	45:HN:364:ALA:HA	1.74	0.67
44:IA:226:ASN:ND2	44:IA:367:ASP:OD2	2.27	0.67
44:IC:88:HIS:HB3	44:IC:91:GLN:HG2	1.76	0.67
44:IC:292:THR:HG21	44:IC:331:SER:HB3	1.74	0.67
44:IG:237:SER:OG	44:IG:320:ARG:NH2	2.28	0.67
44:IG:252:ILE:HA	44:IG:255:PHE:HD2	1.58	0.67
45:IH:204:ASN:HA	45:IH:207:LEU:CD1	2.24	0.67
44:JA:287:SER:HA	44:JA:373:ARG:HH12	1.58	0.67
44:JC:268:MET:HB3	44:JC:380:ASN:HB2	1.76	0.67
44:JC:273:ALA:HB1	44:JC:274:PRO:HA	1.76	0.67
44:JE:296:PHE:HE2	44:JE:335:ILE:HG21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:21:TRP:CZ3	45:JH:61:PRO:HB3	2.29	0.67
45:JN:174:LYS:HB3	45:JN:205:GLU:OE2	1.92	0.67
45:JN:242:PHE:CD2	45:JN:356:ILE:HG13	2.29	0.67
45:KD:310:TYR:CE1	45:KD:371:SER:HB2	2.29	0.67
45:KD:342:VAL:HG13	45:KD:345:ILE:HG22	1.76	0.67
45:KF:49:VAL:HG11	45:KF:241:ARG:CD	2.24	0.67
45:KF:58:ARG:NH1	45:LF:280:GLN:OE1	2.27	0.67
44:KI:404:PHE:CE2	45:KJ:259:PRO:HA	2.29	0.67
44:KK:340:THR:CG2	44:KK:341:ILE:HD12	2.15	0.67
45:LB:186:THR:HG21	45:LB:385:PHE:CD1	2.29	0.67
45:LB:257:LEU:HD12	45:LB:312:THR:OG1	1.94	0.67
44:LG:268:MET:HB2	44:LG:379:SER:C	2.15	0.67
45:LH:130:LEU:HD21	45:LH:133:PHE:CE1	2.28	0.67
45:LJ:2:ARG:NH2	45:LJ:240:LEU:HG	2.09	0.67
44:LM:105:ARG:HA	44:LM:109:THR:HG23	1.76	0.67
44:MA:278:ALA:HB2	44:MA:369:ALA:HB2	1.76	0.67
45:MD:112:LEU:O	45:MD:112:LEU:HD23	1.94	0.67
44:MG:27:GLU:OE1	44:MG:243:ARG:NH1	2.27	0.67
45:MH:139:LEU:HD12	45:MH:188:SER:OG	1.94	0.67
45:NB:345:ILE:O	45:NB:348:ASN:HB3	1.94	0.67
44:NC:200:VAL:HG13	44:NC:256:GLN:HB3	1.75	0.67
44:NC:226:ASN:HA	44:NC:229:ARG:HH11	1.58	0.67
45:ND:178:THR:O	45:ND:181:GLU:HG3	1.94	0.67
45:ND:258:ILE:HG23	45:ND:263:LEU:O	1.93	0.67
45:ND:363:MET:SD	45:ND:364:ALA:N	2.68	0.67
45:NJ:49:VAL:HG21	45:NJ:241:ARG:HG2	1.75	0.67
44:NK:100:ALA:HB1	45:NL:252:LYS:HA	1.76	0.67
44:NK:333:ALA:O	44:NK:337:THR:HG23	1.93	0.67
45:NL:101:TRP:HD1	45:NL:146:GLY:HA2	1.58	0.67
45:NN:237:THR:HG22	45:NN:250:LEU:HD21	1.76	0.67
44:OA:356:ASN:OD1	44:OA:357:TYR:N	2.27	0.67
45:OB:240:LEU:O	45:OB:240:LEU:HD23	1.95	0.67
44:OC:338:LYS:HE3	44:OC:340:THR:CG2	2.24	0.67
45:OD:77:ARG:HA	45:OD:82:GLY:HA3	1.76	0.67
45:OF:130:LEU:HD21	45:OF:133:PHE:CE1	2.29	0.67
45:OF:187:LEU:HD23	45:OF:411:ALA:CB	2.23	0.67
44:OG:204:LEU:CD1	44:OG:231:ILE:HD11	2.15	0.67
45:OH:4:ILE:HG22	45:OH:50:TYR:HE1	1.59	0.67
44:OI:242:LEU:HD21	44:OI:252:ILE:HG23	1.75	0.67
44:OK:131:GLY:O	44:OK:133:GLN:HG2	1.94	0.67
44:OK:275:ILE:HG23	44:OK:368:LEU:CD1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:23:VAL:HG21	45:OL:230:SER:HB2	1.75	0.67
44:PE:242:LEU:HD21	44:PE:252:ILE:HG13	1.76	0.67
44:PI:315:CYS:O	44:PI:351:PHE:HA	1.94	0.67
45:PN:392:LYS:HG3	45:PN:395:LEU:HD22	1.76	0.67
44:QE:69:ASP:OD1	44:QE:70:LEU:N	2.27	0.67
45:QF:66:MET:SD	45:QF:116:VAL:HG21	2.34	0.67
45:QH:247:ASN:OD1	44:QI:11:GLN:NE2	2.28	0.67
44:QI:141:VAL:CG1	44:QI:172:TYR:HA	2.24	0.67
44:QI:352:LYS:CE	45:QJ:178:THR:HA	2.22	0.67
45:QL:319:GLY:N	45:QL:357:PRO:HD3	2.09	0.67
44:RG:261:PRO:HB3	44:RG:313:MET:CE	2.24	0.67
44:RG:328:VAL:O	44:RG:332:ILE:HD12	1.93	0.67
45:RL:295:ASP:OD1	45:RL:297:LYS:HG2	1.94	0.67
45:RL:323:THR:HG22	45:RL:353:ILE:HG12	1.76	0.67
44:RM:10:GLY:HA2	44:RM:69:ASP:HA	1.76	0.67
44:RM:311:LYS:N	44:RM:382:THR:OG1	2.25	0.67
45:RN:293:MET:CE	45:RN:365:VAL:HG21	2.22	0.67
44:SC:271:SER:HA	44:SC:302:MET:HE2	1.76	0.67
44:SE:257:THR:HA	45:SF:397:TRP:CE2	2.30	0.67
44:SE:383:ALA:O	44:SE:386:GLU:HG2	1.94	0.67
45:SF:3:GLU:N	45:SF:129:CYS:O	2.26	0.67
45:SF:42:LEU:HD22	45:SF:356:ILE:HD11	1.75	0.67
44:SG:28:HIS:NE2	44:SG:243:ARG:HD2	2.09	0.67
44:SG:151:SER:O	44:SG:155:GLU:HG3	1.94	0.67
45:SH:186:THR:O	45:SH:189:VAL:HG12	1.94	0.67
44:SK:104:ALA:CB	44:SK:411:GLU:HB2	2.24	0.67
44:SK:434:GLU:O	44:SK:437:ILE:HG12	1.94	0.67
45:SL:112:LEU:O	45:SL:112:LEU:HD23	1.93	0.67
45:SN:60:VAL:HG23	45:SN:84:LEU:O	1.94	0.67
45:TB:313:ALA:O	45:TB:349:ILE:HA	1.92	0.67
44:TC:314:ALA:O	44:TC:380:ASN:N	2.16	0.67
45:TF:186:THR:HG23	45:TF:415:MET:SD	2.34	0.67
45:TF:252:LYS:NZ	46:TG:501:GTP:O1G	2.22	0.67
44:TG:172:TYR:HE2	44:TG:203:MET:HG3	1.59	0.67
44:TI:386:GLU:O	44:TI:390:ARG:HG2	1.94	0.67
45:TJ:178:THR:HG22	45:TJ:180:VAL:H	1.57	0.67
45:TJ:211:CYS:SG	45:TJ:215:LEU:HD12	2.34	0.67
45:TN:110:ALA:O	45:TN:113:ILE:HG22	1.94	0.67
45:TN:205:GLU:O	45:TN:209:ASP:N	2.19	0.67
45:UB:135:ILE:N	45:UB:165:GLU:O	2.25	0.67
45:UD:251:ARG:O	45:UD:255:VAL:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:344:TRP:CE3	44:UE:401:LYS:HE3	2.29	0.67
44:UE:318:MET:O	44:UE:375:VAL:HG23	1.94	0.67
45:UF:159:TYR:HB3	45:UF:162:ARG:CG	2.25	0.67
45:UF:267:MET:HE2	45:UF:299:MET:SD	2.34	0.67
45:UF:328:GLU:OE2	45:UF:332:ASN:HB2	1.94	0.67
44:UI:310:GLY:HA3	44:UI:383:ALA:HB2	1.76	0.67
44:UI:326:LYS:CG	45:UJ:220:PRO:HD2	2.24	0.67
45:UJ:325:GLU:O	45:UJ:329:GLN:HG3	1.94	0.67
45:UL:58:ARG:NH2	45:VL:281:TYR:OH	2.28	0.67
44:UM:316:SER:CA	44:UM:352:LYS:HB3	2.24	0.67
45:UN:209:ASP:O	45:UN:213:ARG:HD3	1.93	0.67
44:VC:1:MET:CE	45:VF:94:GLN:HG3	2.24	0.67
44:VC:7:ILE:HG21	44:VC:153:LEU:HD21	1.76	0.67
45:VD:331:LEU:HA	45:VD:334:GLN:HE21	1.59	0.67
44:VE:9:VAL:HG21	44:VE:149:LEU:HB3	1.76	0.67
44:VG:72:PRO:HG3	44:VG:95:GLY:O	1.93	0.67
44:VG:175:PRO:HB3	44:VG:390:ARG:CD	2.24	0.67
44:VI:98:ASP:OD1	44:VI:99:ALA:N	2.27	0.67
45:VJ:20:PHE:CE2	45:VJ:24:ILE:HG13	2.28	0.67
45:VJ:286:VAL:CG1	45:VJ:325:GLU:HG2	2.23	0.67
44:VM:316:SER:HA	44:VM:352:LYS:O	1.95	0.67
44:WG:229:ARG:NH1	44:WG:363:VAL:HG11	2.09	0.67
45:WH:113:ILE:HA	45:WH:116:VAL:HG12	1.76	0.67
45:WH:135:ILE:HG22	45:WH:137:HIS:ND1	2.09	0.67
45:WH:156:ARG:HD3	45:WH:195:ASN:O	1.94	0.67
44:WI:278:ALA:HB2	44:WI:369:ALA:HB2	1.75	0.67
45:WL:318:ARG:HB3	45:WL:358:PRO:HD3	1.75	0.67
44:WM:205:ASP:OD1	44:WM:303:ALA:HA	1.94	0.67
44:WM:317:MET:HG2	44:WM:375:VAL:CG2	2.24	0.67
45:WN:7:ILE:HB	45:WN:135:ILE:HD13	1.74	0.67
3:OB:46:PHE:HE2	45:JH:77:ARG:HB2	1.57	0.67
5:OD:55:GLY:N	44:EC:221:ARG:O	2.27	0.67
8:OG:27:PHE:CB	45:JL:277:GLY:HA2	2.24	0.67
8:OG:86:LEU:HA	45:JN:227:HIS:NE2	2.08	0.67
10:ON:191:LYS:CE	44:KK:42:ILE:HA	2.24	0.67
2:1A:67:PRO:HB3	45:MF:53:GLU:HG3	1.74	0.67
4:1C:80:ARG:HG2	45:EL:357:PRO:HD2	1.75	0.67
18:1F:60:ASN:ND2	45:GL:36:TYR:HB3	2.09	0.67
18:1F:157:LEU:HB3	45:HL:337:ASN:ND2	2.08	0.67
9:1H:303:GLU:HG3	44:HC:370:LYS:HE2	1.76	0.67
13:1T:76:SER:HB2	44:MC:159:VAL:HG21	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:2C:68:ASN:OD1	44:LI:84:ARG:NH2	2.26	0.67
26:3R:256:ARG:HD2	44:CK:42:ILE:HD12	1.75	0.67
37:5D:115:ASP:H	44:NM:373:ARG:CG	2.03	0.67
35:5R:52:TYR:HA	35:5R:55:ASP:OD2	1.95	0.67
35:5R:536:ARG:CG	35:5R:609:LEU:HD22	2.24	0.67
44:AA:89:PRO:HG3	44:BA:280:LYS:CD	2.24	0.67
44:AA:336:LYS:HE2	44:AA:343:PHE:HE1	1.59	0.67
45:AB:312:THR:O	45:AB:370:ASN:N	2.24	0.67
44:AC:223:THR:O	44:AC:227:LEU:HD23	1.94	0.67
44:AC:280:LYS:NZ	44:MC:90:GLU:OE1	2.25	0.67
45:AF:113:ILE:HD13	45:AF:150:LEU:HD23	1.76	0.67
45:AF:139:LEU:HD13	45:AF:168:SER:HB3	1.76	0.67
45:AJ:383:GLU:O	45:AJ:386:THR:HG22	1.92	0.67
44:AK:320:ARG:HH12	44:AK:360:PRO:HA	1.57	0.67
44:BA:19:ALA:HA	44:BA:22:GLU:OE1	1.92	0.67
44:BC:326:LYS:HG2	45:BF:220:PRO:CD	2.24	0.67
44:BE:254:GLU:CG	45:BH:98:GLY:HA2	2.25	0.67
45:BF:302:ALA:HB3	45:BF:377:MET:HE1	1.74	0.67
44:BG:250:VAL:CG2	44:BG:352:LYS:HE3	2.24	0.67
45:BJ:233:MET:O	45:BJ:236:VAL:HG12	1.93	0.67
45:BN:67:ASP:HA	45:BN:147:MET:CE	2.24	0.67
45:BN:335:ASN:O	45:BN:338:SER:OG	2.09	0.67
44:CA:6:SER:O	44:CA:7:ILE:HD13	1.93	0.67
44:CA:206:ASN:OD1	46:CA:501:GTP:N2	2.28	0.67
44:CA:239:THR:O	44:CA:242:LEU:HG	1.95	0.67
44:CG:271:SER:HA	44:CG:302:MET:HB2	1.75	0.67
45:CH:200:MET:HA	45:CH:266:PHE:O	1.95	0.67
44:CK:101:ASN:HA	44:CK:144:GLY:CA	2.25	0.67
44:CK:288:VAL:HG11	44:CK:327:ASP:CB	2.23	0.67
44:CK:363:VAL:CG2	44:CK:364:PRO:HD2	2.23	0.67
44:CK:377:MET:O	44:CK:378:ILE:HD13	1.94	0.67
44:DC:358:GLN:NE2	44:DC:359:PRO:HD2	2.08	0.67
44:DE:67:PHE:O	44:DE:68:LEU:HD22	1.94	0.67
45:DF:266:PHE:CD1	45:DF:370:ASN:HB2	2.29	0.67
44:DI:308:ARG:NH1	44:DI:340:THR:HG23	2.08	0.67
45:DJ:87:PRO:HA	45:DJ:90:PHE:HD2	1.58	0.67
45:DJ:405:GLU:O	45:DJ:409:THR:HG23	1.94	0.67
45:DL:201:VAL:HG22	45:DL:266:PHE:O	1.93	0.67
45:DL:250:LEU:HD12	45:DL:250:LEU:H	1.58	0.67
44:EE:229:ARG:NH1	44:EE:363:VAL:HG21	2.10	0.67
45:EF:273:LEU:HB2	45:EF:292:GLN:HE22	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:309:ARG:O	45:EF:372:THR:OG1	2.12	0.67
44:EG:69:ASP:OD1	44:EG:70:LEU:N	2.27	0.67
45:EH:97:ALA:HA	45:EH:103:LYS:CD	2.24	0.67
45:EJ:109:GLY:O	45:EJ:113:ILE:HG23	1.93	0.67
44:EK:22:GLU:HG3	44:EK:83:TYR:HE2	1.60	0.67
45:EN:102:ALA:HB2	45:EN:403:MET:CE	2.23	0.67
45:EN:253:LEU:CA	45:EN:257:LEU:HD13	2.24	0.67
45:FF:183:TYR:CZ	45:FF:388:MET:HE3	2.28	0.67
44:FG:202:VAL:HA	44:FG:268:MET:O	1.94	0.67
44:FK:237:SER:HG	44:FK:376:CYS:HG	1.29	0.67
45:FL:139:LEU:HD13	45:FL:170:VAL:CG1	2.24	0.67
45:FN:148:GLY:O	45:FN:152:ILE:HG12	1.95	0.67
45:GB:273:LEU:H	45:GB:292:GLN:NE2	1.93	0.67
44:GC:98:ASP:HB3	45:GD:249:ASP:OD2	1.95	0.67
44:GE:398:MET:CE	45:GF:346:PRO:HD2	2.25	0.67
45:GF:217:LEU:HD11	45:GF:220:PRO:HB3	1.76	0.67
44:GG:256:GLN:HG2	45:GJ:397:TRP:CZ2	2.28	0.67
45:GH:309:ARG:NH2	45:GH:426:GLN:O	2.25	0.67
44:GK:320:ARG:NH2	44:GK:360:PRO:HB3	2.10	0.67
44:GM:9:VAL:HG21	44:GM:149:LEU:HB2	1.75	0.67
44:GM:141:VAL:HG11	44:GM:172:TYR:HD1	1.57	0.67
45:GN:406:MET:O	45:GN:410:GLU:HG3	1.93	0.67
44:HA:145:THR:HG22	46:HA:501:GTP:PG	2.34	0.67
44:HA:420:GLU:O	44:HA:423:GLU:HG2	1.94	0.67
45:HB:202:ILE:CG2	45:HB:300:MET:HB3	2.22	0.67
45:HB:278:SER:OG	45:HB:281:TYR:HB2	1.94	0.67
45:HD:183:TYR:OH	45:HD:388:MET:O	2.12	0.67
44:HE:131:GLY:O	44:HE:133:GLN:NE2	2.23	0.67
44:HI:222:PRO:HG2	45:HJ:324:LYS:HD3	1.76	0.67
44:HK:101:ASN:HA	44:HK:144:GLY:HA3	1.76	0.67
44:HK:118:CYS:O	44:HK:122:ILE:HG12	1.94	0.67
45:HL:383:GLU:HA	45:HL:386:THR:HG22	1.75	0.67
44:HM:434:GLU:O	44:HM:437:ILE:HG12	1.94	0.67
44:IC:11:GLN:HG3	44:IC:74:VAL:HG11	1.75	0.67
44:IC:70:LEU:HD13	44:IC:110:ILE:CD1	2.24	0.67
44:IC:221:ARG:NH2	45:ID:322:SER:O	2.28	0.67
45:ID:206:ALA:HB3	45:ID:300:MET:O	1.94	0.67
44:IE:288:VAL:CG1	44:IE:327:ASP:HB3	2.25	0.67
44:JA:329:ASN:HB3	45:JD:175:VAL:CG1	2.24	0.67
45:JB:199:CYS:O	45:JB:266:PHE:N	2.27	0.67
44:JC:319:TYR:CD2	44:JC:328:VAL:HG22	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:309:ARG:NH2	45:JF:426:GLN:O	2.24	0.67
45:JH:30:ILE:HD11	45:JH:59:TYR:HD2	1.59	0.67
44:JI:185:TYR:O	44:JI:188:ILE:HG22	1.94	0.67
44:JI:404:PHE:CD1	45:JJ:259:PRO:HA	2.30	0.67
45:JJ:171:PRO:HD2	45:JJ:171:PRO:O	1.93	0.67
44:JK:224:TYR:CE1	45:JL:323:THR:HG21	2.28	0.67
45:JN:9:GLY:HA3	45:JN:66:MET:HG3	1.77	0.67
45:JN:237:THR:OG1	45:JN:240:LEU:HB3	1.94	0.67
44:KA:141:VAL:CG1	44:KA:187:SER:HA	2.23	0.67
45:KB:72:THR:O	45:KB:76:VAL:HG13	1.93	0.67
44:KE:31:GLN:HA	44:KE:31:GLN:OE1	1.95	0.67
44:KK:256:GLN:OE1	44:KK:257:THR:HG23	1.93	0.67
45:KN:248:SER:CB	45:KN:252:LYS:HD2	2.24	0.67
45:LB:28:HIS:ND1	45:LB:43:GLN:O	2.25	0.67
45:LD:217:LEU:HD11	45:LD:220:PRO:CG	2.22	0.67
44:LE:11:GLN:NE2	45:LF:245:GLN:O	2.27	0.67
44:LE:123:ARG:HH21	44:LE:161:TYR:HE1	1.43	0.67
44:LI:175:PRO:HD2	44:LI:207:GLU:OE1	1.93	0.67
44:LI:255:PHE:HE2	44:LI:316:SER:HG	1.41	0.67
45:LJ:202:ILE:HD11	45:LJ:268:ILE:CG1	2.24	0.67
45:LJ:206:ALA:O	45:LJ:210:ILE:N	2.21	0.67
44:LM:80:THR:HA	44:LM:84:ARG:HD3	1.76	0.67
44:MA:88:HIS:CE1	44:MA:90:GLU:HG2	2.29	0.67
44:MG:332:ILE:HD11	44:MG:351:PHE:CG	2.29	0.67
44:MM:68:LEU:HD22	44:MM:93:ILE:HB	1.76	0.67
44:MM:224:TYR:CE1	45:MN:323:THR:HG21	2.29	0.67
45:NB:258:ILE:HG23	45:NB:263:LEU:O	1.94	0.67
44:NE:2:ARG:HD2	44:NE:242:LEU:O	1.94	0.67
44:NE:183:GLU:HG2	44:NE:184:PRO:HD3	1.76	0.67
45:NF:310:TYR:CE1	45:NF:371:SER:HB2	2.30	0.67
44:NG:195:LEU:HD21	44:NG:264:ARG:NE	2.07	0.67
45:NH:178:THR:O	45:NH:181:GLU:HG3	1.93	0.67
45:NJ:130:LEU:HG	45:NJ:162:ARG:NH2	2.08	0.67
44:NM:316:SER:O	44:NM:378:ILE:N	2.22	0.67
44:OA:265:ILE:HG12	44:OA:432:TYR:CE1	2.29	0.67
45:OH:182:PRO:HB3	45:OH:384:GLN:HG2	1.76	0.67
44:OK:165:SER:C	44:OK:166:LYS:HD2	2.14	0.67
44:OK:202:VAL:HA	44:OK:268:MET:O	1.94	0.67
44:OK:338:LYS:HG2	44:OK:340:THR:HG22	1.73	0.67
44:OK:420:GLU:O	44:OK:423:GLU:HG3	1.95	0.67
45:PB:145:SER:HB2	45:PB:188:SER:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:88:HIS:ND1	44:PG:89:PRO:HD2	2.09	0.67
44:PK:102:ASN:OD1	44:PK:104:ALA:N	2.27	0.67
45:PL:290:THR:HG21	45:PL:329:GLN:OE1	1.94	0.67
44:PM:221:ARG:NH1	45:PN:325:GLU:OE1	2.27	0.67
45:PN:67:ASP:OD1	45:PN:68:LEU:N	2.27	0.67
44:QG:176:GLN:N	44:QG:176:GLN:OE1	2.27	0.67
44:QG:265:ILE:HG23	44:QG:432:TYR:HE1	1.59	0.67
45:QH:68:LEU:HD23	45:QH:97:ALA:HB2	1.76	0.67
44:QI:88:HIS:HB3	44:QI:91:GLN:CG	2.25	0.67
45:QJ:103:LYS:HA	45:QJ:107:THR:OG1	1.94	0.67
44:QK:320:ARG:HA	44:QK:356:ASN:HB3	1.75	0.67
44:QM:183:GLU:HG2	44:QM:184:PRO:HD3	1.76	0.67
44:RE:320:ARG:CD	44:RE:360:PRO:HG3	2.23	0.67
45:RH:217:LEU:HD12	45:RH:217:LEU:O	1.93	0.67
45:RH:255:VAL:HG21	44:RI:101:ASN:HB2	1.76	0.67
44:RI:258:ASN:O	45:RJ:179:VAL:HG21	1.95	0.67
45:RJ:156:ARG:HD3	45:RJ:195:ASN:HB3	1.75	0.67
44:RM:223:THR:HG23	44:RM:225:THR:H	1.59	0.67
45:RN:4:ILE:HG22	45:RN:132:GLY:H	1.59	0.67
45:RN:202:ILE:CD1	45:RN:300:MET:HB2	2.23	0.67
45:SD:55:THR:H	45:TD:283:ALA:HA	1.58	0.67
45:SD:324:LYS:HD3	44:SE:222:PRO:CG	2.25	0.67
44:SE:11:GLN:HG3	44:SE:74:VAL:HG11	1.76	0.67
44:SG:141:VAL:HG11	44:SG:172:TYR:HD1	1.57	0.67
45:SH:178:THR:HB	45:SH:181:GLU:CG	2.22	0.67
45:SH:320:ARG:NE	45:SH:355:ASP:HB3	2.10	0.67
44:SK:408:TYR:HB3	44:SK:413:MET:HE2	1.77	0.67
44:TA:135:PHE:CB	44:TA:166:LYS:HG2	2.19	0.67
44:TC:175:PRO:CG	44:TC:304:LYS:HD2	2.18	0.67
44:TC:433:GLU:O	44:TC:437:ILE:HG23	1.95	0.67
45:TD:173:PRO:HD3	45:TD:380:ARG:NH1	2.09	0.67
45:TH:36:TYR:CE1	45:TH:44:LEU:HG	2.29	0.67
45:TH:385:PHE:CE2	45:TH:412:GLU:HB2	2.29	0.67
44:TI:2:ARG:HD3	44:TI:242:LEU:HD22	1.76	0.67
45:TN:309:ARG:HB3	45:TN:342:VAL:N	2.09	0.67
44:UA:362:VAL:HB	44:UA:370:LYS:HB3	1.74	0.67
45:UB:25:SER:HB3	45:UB:30:ILE:O	1.94	0.67
45:UB:362:LYS:O	45:UB:363:MET:HE2	1.94	0.67
44:UC:360:PRO:HG3	44:UC:374:ALA:CB	2.25	0.67
45:UD:246:LEU:HA	44:UE:11:GLN:HE22	1.58	0.67
45:UD:255:VAL:CG2	44:UE:100:ALA:HB1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:259:PRO:HA	44:UE:404:PHE:CZ	2.29	0.67
45:UD:304:ASP:OD1	45:UD:306:ARG:HG2	1.94	0.67
44:UI:346:TRP:CD1	45:UJ:391:ARG:HG3	2.30	0.67
45:UL:7:ILE:HB	45:UL:135:ILE:CD1	2.24	0.67
44:UM:2:ARG:NH2	44:UM:242:LEU:O	2.25	0.67
45:UN:7:ILE:HB	45:UN:135:ILE:CD1	2.24	0.67
44:VA:136:LEU:CD2	44:VA:167:LEU:HB2	2.24	0.67
44:VA:210:TYR:O	44:VA:214:ARG:N	2.28	0.67
44:VC:427:ALA:O	44:VC:431:ASP:N	2.22	0.67
45:VD:358:PRO:HG2	45:VD:364:ALA:HB2	1.76	0.67
44:VE:72:PRO:HG3	44:VE:95:GLY:O	1.94	0.67
45:VF:8:GLN:NE2	45:VF:14:ASN:HA	2.09	0.67
45:VF:54:ALA:HA	45:WF:283:ALA:HB2	1.77	0.67
44:VG:2:ARG:O	44:VG:51:THR:HA	1.94	0.67
44:VG:175:PRO:HB3	44:VG:390:ARG:NE	2.09	0.67
44:VK:66:VAL:HG22	44:VK:68:LEU:HD11	1.75	0.67
44:VK:206:ASN:HA	44:VK:209:ILE:CD1	2.22	0.67
44:VM:121:ARG:NH1	44:VM:124:LYS:HD2	2.08	0.67
44:WA:186:ASN:HA	44:WA:189:LEU:CG	2.24	0.67
44:WI:421:ALA:O	44:WI:425:LEU:HD23	1.94	0.67
45:WJ:251:ARG:HH11	45:WJ:251:ARG:HG2	1.59	0.67
45:WJ:274:THR:HG21	45:WJ:279:GLN:HA	1.76	0.67
45:WJ:285:THR:CG2	45:WJ:287:PRO:HD2	2.24	0.67
44:WK:316:SER:N	44:WK:378:ILE:O	2.25	0.67
44:WM:315:CYS:CA	44:WM:379:SER:HA	2.25	0.67
44:WM:401:LYS:NZ	45:WN:345:ILE:HB	2.09	0.67
2:0A:96:ALA:CB	35:7R:62:PRO:HG2	2.23	0.67
4:0C:121:LEU:HD13	44:DI:22:GLU:HG2	1.76	0.67
25:1P:341:LEU:HD13	44:TC:364:PRO:HG3	1.75	0.67
15:1V:46:PRO:HG2	44:LI:114:ILE:HD12	1.75	0.67
22:2L:782:LYS:HE2	45:BL:320:ARG:NH1	2.09	0.67
14:3U:191:ASN:O	45:WN:78:ALA:HB1	1.92	0.67
35:4R:89:ASP:OD2	44:AE:370:LYS:NZ	2.17	0.67
37:5A:126:ILE:O	45:ND:276:ARG:NH1	2.27	0.67
37:5D:26:LYS:HD2	45:KN:398:TYR:CB	2.20	0.67
37:5D:34:PHE:CE2	44:KK:431:ASP:C	2.67	0.67
44:AA:194:LEU:HD23	44:AA:194:LEU:O	1.93	0.67
45:AD:380:ARG:O	45:AD:384:GLN:HG3	1.95	0.67
45:AF:299:MET:HE2	45:AF:299:MET:HA	1.75	0.67
44:AG:325:PRO:O	44:AG:328:VAL:HG22	1.93	0.67
45:AL:178:THR:O	45:AL:181:GLU:HG3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:258:ASN:OD1	45:BD:179:VAL:HG22	1.94	0.67
44:BE:99:ALA:HB3	44:BE:145:THR:HG22	1.75	0.67
44:BE:205:ASP:OD1	44:BE:303:ALA:HA	1.95	0.67
44:BG:276:ILE:HG23	44:BG:281:ALA:HB2	1.76	0.67
44:BG:296:PHE:CE2	44:BG:335:ILE:HG21	2.29	0.67
45:BJ:137:HIS:NE2	45:BJ:168:SER:OG	2.27	0.67
44:CA:88:HIS:HE1	44:CA:90:GLU:HG2	1.58	0.67
44:CE:115:VAL:HG22	44:CE:119:LEU:HD23	1.75	0.67
45:CH:33:THR:HG23	45:CH:35:THR:H	1.59	0.67
45:CN:101:TRP:NE1	45:CN:146:GLY:HA2	2.10	0.67
45:CN:204:ASN:HA	45:CN:207:LEU:CD2	2.23	0.67
45:DB:141:GLY:HA3	48:DB:501:GDP:O3A	1.94	0.67
45:DD:7:ILE:HG13	45:DD:7:ILE:O	1.94	0.67
45:DD:268:ILE:HB	45:DD:367:PHE:O	1.94	0.67
45:DD:286:VAL:HG11	45:DD:325:GLU:HG2	1.76	0.67
44:DE:28:HIS:NE2	44:DE:243:ARG:HD2	2.07	0.67
45:DH:67:ASP:HB3	45:DH:73:MET:SD	2.34	0.67
44:DI:96:LYS:HD2	44:DI:97:GLU:HB2	1.75	0.67
44:DI:217:LEU:HA	44:DI:277:SER:HB2	1.77	0.67
44:DM:169:PHE:HB3	44:DM:204:LEU:CD1	2.24	0.67
44:DM:433:GLU:O	44:DM:437:ILE:HG23	1.95	0.67
45:DN:64:ILE:HD11	45:DN:123:GLU:HG3	1.75	0.67
45:ED:314:SER:HA	45:ED:350:LYS:HB3	1.76	0.67
45:EF:9:GLY:HA2	45:EF:66:MET:O	1.95	0.67
45:EF:54:ALA:HB1	45:FF:282:ARG:O	1.94	0.67
45:EL:392:LYS:HD2	45:EL:392:LYS:N	2.08	0.67
45:EN:36:TYR:CE1	45:EN:44:LEU:HD21	2.28	0.67
45:EN:68:LEU:HD23	45:EN:97:ALA:N	2.09	0.67
44:FC:221:ARG:HD3	45:FD:325:GLU:OE2	1.93	0.67
44:FG:226:ASN:ND2	44:FG:367:ASP:OD2	2.27	0.67
45:FJ:310:TYR:CD1	45:FJ:371:SER:HB3	2.29	0.67
44:FM:212:ILE:CD1	44:FM:300:ASN:HA	2.25	0.67
44:GA:88:HIS:CE1	44:HA:280:LYS:HE2	2.30	0.67
44:GA:265:ILE:HG12	44:GA:432:TYR:HE1	1.58	0.67
44:GC:259:LEU:HD21	44:GC:316:SER:HB2	1.76	0.67
44:GG:188:ILE:HG23	44:GG:425:LEU:CD1	2.24	0.67
44:GG:276:ILE:CG1	44:GG:281:ALA:HA	2.25	0.67
45:GH:116:VAL:O	45:GH:120:VAL:HG23	1.93	0.67
45:GH:202:ILE:HG23	45:GH:300:MET:HB3	1.76	0.67
45:GJ:266:PHE:CE1	45:GJ:370:ASN:HB2	2.30	0.67
44:GK:120:ASP:O	44:GK:123:ARG:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:215:ARG:NH1	44:HC:299:ALA:HB1	2.09	0.67
45:HD:20:PHE:CE1	45:HD:233:MET:HB3	2.28	0.67
45:HD:313:ALA:HB1	45:HD:367:PHE:CE2	2.29	0.67
44:HI:202:VAL:HA	44:HI:268:MET:O	1.94	0.67
44:HI:328:VAL:CG1	44:HI:353:VAL:HG21	2.24	0.67
45:HN:317:PHE:CZ	45:HN:326:VAL:HG13	2.29	0.67
44:IE:3:GLU:HG2	44:IE:132:LEU:HD23	1.76	0.67
45:IF:253:LEU:O	45:IF:257:LEU:HD13	1.93	0.67
45:IF:372:THR:HA	45:IF:422:TYR:CE2	2.28	0.67
44:II:200:VAL:HG13	44:II:268:MET:SD	2.34	0.67
45:IJ:8:GLN:O	45:IJ:66:MET:HG3	1.93	0.67
44:IM:168:GLY:O	44:IM:201:ALA:HA	1.94	0.67
44:JA:20:CYS:HA	44:JA:232:ALA:HB1	1.76	0.67
44:JA:119:LEU:O	44:JA:123:ARG:HG2	1.94	0.67
45:JB:136:THR:HG22	45:JB:167:PHE:CD1	2.28	0.67
45:JB:240:LEU:HD23	45:JB:240:LEU:O	1.94	0.67
44:JG:9:VAL:HG23	44:JG:149:LEU:HD23	1.76	0.67
45:JH:244:GLY:HA2	45:JH:355:ASP:OD1	1.93	0.67
44:JI:206:ASN:OD1	46:JI:501:GTP:N2	2.26	0.67
44:JI:424:ASP:OD1	44:NI:339:ARG:NH2	2.26	0.67
45:JL:355:ASP:O	45:JL:356:ILE:HD13	1.94	0.67
44:JM:101:ASN:HA	44:JM:144:GLY:HA3	1.76	0.67
44:JM:169:PHE:CD1	44:JM:202:VAL:HG21	2.30	0.67
45:KB:204:ASN:ND2	48:KB:501:GDP:O2'	2.27	0.67
45:KF:263:LEU:HD23	45:KF:370:ASN:HD21	1.58	0.67
44:KG:31:GLN:HB3	44:KG:32:PRO:HD2	1.74	0.67
44:KG:435:VAL:HG12	44:KG:435:VAL:O	1.94	0.67
44:KM:344:VAL:HG12	44:KM:347:CYS:HB2	1.76	0.67
45:LB:190:HIS:O	45:LB:194:GLU:HG2	1.95	0.67
45:LB:372:THR:HA	45:LB:422:TYR:CE2	2.27	0.67
45:LH:172:SER:HB2	45:LH:205:GLU:OE1	1.94	0.67
44:LM:11:GLN:NE2	45:LN:245:GLN:O	2.28	0.67
45:LN:21:TRP:CZ3	45:LN:61:PRO:HB3	2.28	0.67
45:MD:186:THR:HG21	45:MD:385:PHE:HE2	1.59	0.67
44:ME:108:TYR:HA	44:ME:112:LYS:NZ	2.10	0.67
45:MF:113:ILE:HD11	45:MF:151:LEU:HA	1.77	0.67
45:MN:260:PHE:HB3	45:MN:261:PRO:HD2	1.76	0.67
44:NA:298:PRO:O	44:NA:301:MET:HE2	1.95	0.67
44:NA:431:ASP:O	44:NA:434:GLU:HG3	1.94	0.67
44:NC:137:VAL:HG12	44:NC:167:LEU:O	1.94	0.67
44:NG:205:ASP:OD1	44:NG:303:ALA:HA	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:398:MET:HE3	45:NH:345:ILE:HD12	1.76	0.67
44:NK:135:PHE:O	44:NK:136:LEU:HD23	1.93	0.67
44:OC:401:LYS:HZ2	45:OD:425:TYR:HD1	1.39	0.67
45:ON:414:ASN:O	45:ON:418:LEU:N	2.24	0.67
44:PE:161:TYR:HB3	44:PE:164:LYS:HE3	1.74	0.67
45:PF:186:THR:HG23	45:PF:415:MET:CE	2.23	0.67
44:PI:294:SER:HA	44:PI:297:GLU:HG3	1.74	0.67
45:PN:30:ILE:HA	45:PN:35:THR:O	1.95	0.67
44:QA:76:ASP:OD1	44:QA:79:ARG:NH2	2.27	0.67
44:QA:145:THR:HG22	46:QA:501:GTP:PG	2.34	0.67
44:QG:259:LEU:HD11	44:QG:316:SER:HB3	1.75	0.67
45:QJ:100:ASN:ND2	45:QJ:401:GLU:OE1	2.27	0.67
44:QK:11:GLN:N	46:QK:501:GTP:O2B	2.27	0.67
44:QM:88:HIS:O	44:QM:91:GLN:HG2	1.94	0.67
45:QN:70:PRO:HD3	45:QN:93:GLY:O	1.94	0.67
45:QN:167:PHE:HA	45:QN:200:MET:HB2	1.76	0.67
44:RA:70:LEU:HD11	44:RA:149:LEU:HD21	1.76	0.67
45:RB:237:THR:HG23	45:RB:241:ARG:NH2	2.09	0.67
44:RC:74:VAL:HG23	44:RC:75:ILE:HD12	1.75	0.67
44:RC:272:TYR:HD1	44:RC:376:CYS:HB2	1.57	0.67
45:RJ:42:LEU:HD12	45:RJ:42:LEU:H	1.59	0.67
45:RJ:182:PRO:HG2	45:RJ:388:MET:HE1	1.76	0.67
45:RJ:262:ARG:NH1	45:RJ:421:GLU:OE1	2.25	0.67
44:RK:89:PRO:HG3	44:SK:280:LYS:CG	2.23	0.67
44:RK:171:ILE:HG12	44:RK:204:LEU:HD23	1.76	0.67
45:RL:87:PRO:HA	45:RL:90:PHE:CD2	2.24	0.67
45:RL:251:ARG:O	45:RL:255:VAL:N	2.26	0.67
45:RL:289:LEU:HD11	45:RL:363:MET:HB2	1.75	0.67
45:RL:348:ASN:HA	44:RM:181:VAL:HG12	1.76	0.67
44:SC:36:MET:HG3	44:SC:61:HIS:HE1	1.59	0.67
45:SD:183:TYR:OH	45:SD:393:ALA:O	2.07	0.67
45:SJ:375:GLN:HB3	45:SJ:422:TYR:CD2	2.28	0.67
44:TA:13:GLY:CA	44:TA:139:ASN:HA	2.24	0.67
44:TC:236:SER:O	44:TC:240:ALA:N	2.27	0.67
45:TD:152:ILE:HD12	45:TD:164:MET:CE	2.18	0.67
45:TF:342:VAL:HG13	45:TF:345:ILE:HG22	1.75	0.67
45:TH:379:LYS:HA	45:TH:382:ALA:HB3	1.75	0.67
44:TI:66:VAL:HG11	44:TI:122:ILE:HD11	1.75	0.67
44:TI:89:PRO:HD3	44:UI:283:HIS:CG	2.29	0.67
44:TM:175:PRO:HB3	44:TM:390:ARG:CZ	2.24	0.67
44:UC:319:TYR:CE2	44:UC:328:VAL:HG22	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:68:LEU:HD23	45:UD:97:ALA:HB2	1.75	0.67
44:UE:324:VAL:HB	44:UE:327:ASP:OD2	1.94	0.67
44:UG:293:ASN:O	44:UG:297:GLU:HG3	1.93	0.67
45:UH:155:VAL:HG11	45:UH:164:MET:HE3	1.75	0.67
44:UI:26:LEU:CD2	44:UI:363:VAL:HA	2.24	0.67
44:UI:408:TYR:O	44:UI:413:MET:HB3	1.93	0.67
45:UJ:268:ILE:CG2	45:UJ:368:VAL:HG22	2.21	0.67
45:UJ:311:LEU:HA	45:UJ:342:VAL:HG11	1.75	0.67
45:UJ:322:SER:OG	44:UK:221:ARG:NH1	2.28	0.67
44:UM:145:THR:HG22	46:UM:501:GTP:O3B	1.94	0.67
44:UM:171:ILE:HG23	44:UM:204:LEU:O	1.93	0.67
45:UN:67:ASP:HB3	45:UN:73:MET:CE	2.25	0.67
44:VC:6:SER:O	44:VC:7:ILE:HD13	1.94	0.67
44:VC:270:SER:HB3	44:VC:378:ILE:HD12	1.75	0.67
44:VE:256:GLN:O	45:VH:397:TRP:NE1	2.23	0.67
44:VG:238:LEU:HA	44:VG:318:MET:CE	2.24	0.67
44:VI:268:MET:SD	44:VI:380:ASN:HA	2.33	0.67
44:WA:207:GLU:HA	44:WA:210:TYR:CD2	2.29	0.67
44:WA:276:ILE:HG23	44:WA:281:ALA:HB2	1.75	0.67
44:WC:118:CYS:O	44:WC:122:ILE:HG12	1.93	0.67
44:WC:152:LEU:HD12	44:WC:155:GLU:OE2	1.94	0.67
44:WC:156:ARG:HA	44:WC:159:VAL:HG12	1.76	0.67
44:WC:361:THR:HG22	44:WC:362:VAL:H	1.58	0.67
45:WD:27:GLU:OE2	45:WD:241:ARG:NH1	2.27	0.67
45:WJ:28:HIS:ND1	45:WJ:43:GLN:O	2.23	0.67
45:WJ:107:THR:HG21	45:WJ:401:GLU:HB3	1.75	0.67
44:WK:2:ARG:HD3	44:WK:242:LEU:CD2	2.24	0.67
44:WK:88:HIS:CE1	44:WK:90:GLU:HG2	2.29	0.67
44:WK:356:ASN:OD1	44:WK:357:TYR:N	2.26	0.67
45:WL:183:TYR:CE2	45:WL:388:MET:HE3	2.29	0.67
45:WN:187:LEU:HD23	45:WN:411:ALA:HB2	1.76	0.67
20:1J:290:THR:HG21	45:IL:320:ARG:HH12	1.59	0.67
27:1W:118:GLY:CA	45:LF:276:ARG:HH22	2.08	0.67
29:2F:60:PHE:HB3	45:GF:77:ARG:NH2	2.09	0.67
22:2L:525:LEU:HD11	45:BN:355:ASP:O	1.93	0.67
12:3S:46:TRP:CE2	44:WK:89:PRO:HD3	2.29	0.67
12:3S:312:THR:HA	44:AM:402:ARG:HG3	1.75	0.67
37:5C:57:PRO:HG2	45:KJ:390:ARG:CG	2.23	0.67
38:5H:44:ARG:NE	38:5H:45:PRO:HD2	2.10	0.67
35:5R:470:PHE:CE2	35:5R:471:LEU:HG	2.29	0.67
41:6G:212:ASN:O	41:6G:215:GLN:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6G:268:VAL:HB	44:VA:340:THR:HG22	1.75	0.67
35:7R:127:ILE:HG21	35:7R:150:ILE:CD1	2.23	0.67
43:8P:235:UNK:O	43:8P:239:UNK:N	2.27	0.67
45:AF:132:GLY:HA3	45:AF:163:ILE:HG13	1.77	0.67
44:AM:398:MET:HE2	45:AN:345:ILE:HA	1.77	0.67
44:BC:324:VAL:HG12	44:BC:326:LYS:HG3	1.76	0.67
44:BE:51:THR:HG21	44:BE:243:ARG:HD3	1.75	0.67
45:BL:287:PRO:HD3	45:BL:325:GLU:OE2	1.94	0.67
44:BM:284:GLU:OE2	44:BM:286:LEU:N	2.24	0.67
44:CA:288:VAL:HA	44:CA:291:ILE:HG12	1.76	0.67
44:CA:295:ALA:HB1	44:CA:377:MET:HE2	1.75	0.67
45:CB:68:LEU:HG	45:CB:96:GLY:H	1.59	0.67
45:CF:67:ASP:OD2	45:CF:72:THR:HG22	1.94	0.67
44:CG:271:SER:OG	44:CG:377:MET:SD	2.53	0.67
45:CH:67:ASP:OD1	45:CH:68:LEU:N	2.28	0.67
45:CJ:170:VAL:HG22	45:CJ:171:PRO:HD2	1.76	0.67
45:CL:318:ARG:NH1	45:CL:358:PRO:HG3	2.08	0.67
45:CL:322:SER:O	45:CL:326:VAL:HG23	1.95	0.67
45:CL:421:GLU:O	45:CL:424:GLN:HG3	1.93	0.67
44:DA:237:SER:HA	44:DA:320:ARG:HH11	1.59	0.67
44:DC:7:ILE:HD11	44:DC:135:PHE:HB3	1.77	0.67
44:DC:88:HIS:HB3	44:DC:91:GLN:CG	2.24	0.67
45:DD:1:MET:C	45:DD:2:ARG:HD3	2.14	0.67
45:DD:249:ASP:OD1	45:DD:252:LYS:N	2.21	0.67
44:DE:51:THR:OG1	44:DE:243:ARG:HB3	1.95	0.67
45:DF:274:THR:HG22	45:DF:282:ARG:HD3	1.74	0.67
45:DJ:86:ARG:HA	45:EJ:281:TYR:HD2	1.59	0.67
45:DJ:139:LEU:HD12	45:DJ:188:SER:OG	1.94	0.67
44:DK:245:ASP:OD1	44:DK:246:GLY:N	2.28	0.67
45:DL:21:TRP:CH2	45:DL:50:TYR:HB3	2.29	0.67
45:DL:87:PRO:HA	45:DL:90:PHE:HD2	1.60	0.67
44:EA:316:SER:HB2	44:EA:352:LYS:CE	2.24	0.67
44:EC:1:MET:HG2	45:ED:70:PRO:HG2	1.75	0.67
44:EE:7:ILE:HB	44:EE:137:VAL:CA	2.24	0.67
45:EF:12:CYS:SG	45:EF:138:SER:HB2	2.35	0.67
44:EG:247:ALA:HB3	44:EG:355:ILE:CD1	2.25	0.67
44:EI:179:THR:HG21	46:EI:501:GTP:H3'	1.76	0.67
45:EL:72:THR:O	45:EL:75:SER:OG	2.12	0.67
45:EL:153:SER:HA	45:EL:156:ARG:NH2	2.09	0.67
44:EM:174:SER:HB2	44:EM:177:VAL:HB	1.75	0.67
44:FC:274:PRO:HD2	44:FC:374:ALA:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:167:PHE:CZ	45:FH:233:MET:HG3	2.30	0.67
45:FL:198:GLU:OE2	45:FL:254:ALA:HB2	1.94	0.67
44:FM:6:SER:O	44:FM:7:ILE:HD13	1.94	0.67
44:GA:276:ILE:CD1	44:GA:281:ALA:HA	2.24	0.67
45:GB:100:ASN:ND2	45:GB:103:LYS:HB2	2.09	0.67
44:GG:103:PHE:HA	44:GG:144:GLY:HA2	1.77	0.67
44:GI:34:GLY:O	44:GI:60:LYS:HG3	1.94	0.67
45:GL:207:LEU:HA	45:GL:300:MET:CE	2.23	0.67
44:GM:278:ALA:HA	44:GM:369:ALA:HB2	1.75	0.67
45:GN:294:PHE:CD2	45:GN:333:VAL:HG11	2.27	0.67
44:HE:261:PRO:HA	45:HH:394:PHE:CD1	2.29	0.67
44:HI:72:PRO:HG2	45:HJ:1:MET:SD	2.35	0.67
44:HI:89:PRO:HG3	44:II:280:LYS:HE2	1.75	0.67
44:HI:251:ASP:HB2	44:HI:254:GLU:OE1	1.92	0.67
44:HI:254:GLU:CG	45:HL:98:GLY:HA2	2.24	0.67
44:HK:210:TYR:CE1	44:HK:227:LEU:HD11	2.29	0.67
44:IA:108:TYR:HA	44:IA:112:LYS:HE3	1.75	0.67
44:IA:183:GLU:HG2	44:IA:184:PRO:HD3	1.74	0.67
44:IA:188:ILE:HG23	44:IA:425:LEU:HD11	1.74	0.67
44:IC:284:GLU:HG3	44:IC:286:LEU:CD2	2.24	0.67
44:IE:31:GLN:HB3	44:IE:32:PRO:HD2	1.76	0.67
44:IG:205:ASP:OD1	44:IG:303:ALA:HA	1.94	0.67
44:IG:305:CYS:SG	44:IG:383:ALA:HB1	2.35	0.67
44:JA:135:PHE:O	44:JA:167:LEU:N	2.25	0.67
44:JA:387:VAL:O	44:JA:391:LEU:HD23	1.94	0.67
44:JC:115:VAL:O	44:JC:119:LEU:HD23	1.95	0.67
45:JD:20:PHE:HA	45:JD:230:SER:OG	1.94	0.67
44:JE:439:THR:OG1	45:JH:390:ARG:NH2	2.26	0.67
45:JF:152:ILE:HG23	45:JF:164:MET:SD	2.35	0.67
44:JM:404:PHE:HA	44:JM:407:TRP:CE3	2.30	0.67
45:JN:396:HIS:HA	45:JN:399:THR:HG22	1.76	0.67
44:KA:210:TYR:OH	45:KB:323:THR:OG1	2.13	0.67
44:KC:202:VAL:HA	44:KC:268:MET:O	1.95	0.67
44:KI:90:GLU:HG3	44:KI:121:ARG:NH1	2.08	0.67
45:KN:418:LEU:O	45:KN:422:TYR:N	2.23	0.67
44:LA:81:GLY:O	44:LA:84:ARG:NH1	2.27	0.67
44:LA:311:LYS:N	44:LA:382:THR:OG1	2.23	0.67
45:LB:181:GLU:CG	45:LB:182:PRO:HD3	2.25	0.67
45:LB:311:LEU:O	45:LB:345:ILE:HD11	1.94	0.67
44:LC:132:LEU:HD21	44:LC:135:PHE:CZ	2.30	0.67
45:LF:63:ALA:O	45:LF:89:ASN:ND2	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:173:PRO:HD2	45:LF:174:LYS:NZ	2.09	0.67
44:LI:99:ALA:HB2	44:LI:145:THR:HB	1.75	0.67
45:MB:309:ARG:NH1	45:MB:342:VAL:HA	2.09	0.67
44:MG:10:GLY:O	44:MG:14:ILE:N	2.24	0.67
45:MH:186:THR:HG21	45:MH:385:PHE:CE1	2.30	0.67
44:MI:65:ALA:O	44:MI:91:GLN:NE2	2.27	0.67
44:MK:88:HIS:HB3	44:MK:91:GLN:HG3	1.75	0.67
44:NA:49:PHE:O	44:NA:53:PHE:N	2.18	0.67
44:NC:265:ILE:HG12	44:NC:432:TYR:HE1	1.58	0.67
44:NG:118:CYS:O	44:NG:122:ILE:HG12	1.94	0.67
44:NG:226:ASN:ND2	44:NG:367:ASP:OD2	2.27	0.67
45:NH:272:PRO:HG3	45:NH:289:LEU:CD2	2.25	0.67
45:NL:101:TRP:CD1	45:NL:146:GLY:HA2	2.28	0.67
44:NM:21:TRP:CZ3	44:NM:63:PRO:HB3	2.28	0.67
44:NM:417:GLU:OE1	44:NM:417:GLU:N	2.26	0.67
45:NN:186:THR:HG21	45:NN:385:PHE:CE1	2.30	0.67
44:OA:398:MET:SD	45:OB:345:ILE:HG22	2.33	0.67
45:OB:116:VAL:HA	45:OB:119:VAL:HG12	1.75	0.67
44:OC:69:ASP:HB3	44:OC:75:ILE:HD11	1.77	0.67
44:OC:247:ALA:HB2	44:OC:357:TYR:OH	1.95	0.67
45:OD:117:LEU:HG	45:OD:121:ARG:HH21	1.59	0.67
44:OE:328:VAL:HG11	44:OE:353:VAL:CG2	2.18	0.67
44:OE:328:VAL:HG21	44:OE:355:ILE:HD11	1.76	0.67
45:OF:154:LYS:O	45:OF:157:GLU:HG3	1.95	0.67
44:OI:192:HIS:ND1	44:OI:424:ASP:OD2	2.27	0.67
44:OK:22:GLU:HG2	44:OK:83:TYR:OH	1.95	0.67
44:OK:237:SER:O	44:OK:320:ARG:NH2	2.27	0.67
45:OL:11:GLN:HA	45:OL:14:ASN:ND2	2.09	0.67
44:PA:320:ARG:HA	44:PA:356:ASN:HB3	1.75	0.67
44:PC:403:ALA:HA	45:PD:260:PHE:HE1	1.60	0.67
44:PE:115:VAL:HG22	44:PE:119:LEU:CD2	2.24	0.67
44:PE:172:TYR:HB3	44:PE:173:PRO:HD2	1.76	0.67
44:PE:400:ALA:C	44:PE:401:LYS:HD2	2.15	0.67
44:PI:315:CYS:N	44:PI:350:GLY:O	2.27	0.67
44:PK:212:ILE:HD11	44:PK:300:ASN:HA	1.75	0.67
44:QA:417:GLU:O	44:QA:420:GLU:HG2	1.94	0.67
45:QB:139:LEU:HA	45:QB:145:SER:CB	2.21	0.67
45:QB:268:ILE:HG22	45:QB:368:VAL:HG22	1.76	0.67
44:QC:258:ASN:ND2	44:QC:352:LYS:HD3	2.08	0.67
45:QD:375:GLN:HE21	45:QD:419:VAL:HG13	1.60	0.67
44:QG:392:ASP:OD1	44:QG:422:ARG:NE	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:434:GLU:O	44:QG:437:ILE:HG12	1.93	0.67
44:QI:224:TYR:HB3	46:QI:501:GTP:O6	1.95	0.67
44:QI:291:ILE:HD12	44:QI:375:VAL:HG12	1.75	0.67
45:QJ:258:ILE:HG23	45:QJ:263:LEU:O	1.94	0.67
44:RC:71:GLU:OE1	44:RC:73:THR:HB	1.94	0.67
45:RD:271:ALA:HB1	45:RD:292:GLN:OE1	1.94	0.67
45:RD:342:VAL:HG13	45:RD:345:ILE:CG2	2.25	0.67
45:RF:204:ASN:O	45:RF:207:LEU:N	2.28	0.67
45:RH:257:LEU:HD21	45:RH:368:VAL:O	1.92	0.67
45:RH:312:THR:HA	45:RH:348:ASN:HB2	1.76	0.67
44:RI:212:ILE:HD12	44:RI:300:ASN:HA	1.77	0.67
45:RL:266:PHE:CD1	45:RL:370:ASN:HB2	2.30	0.67
45:RN:1:MET:O	45:RN:2:ARG:HG2	1.94	0.67
45:SB:163:ILE:HG23	45:SB:251:ARG:NH1	2.09	0.67
45:SD:7:ILE:O	45:SD:135:ILE:HD12	1.94	0.67
44:SE:274:PRO:HG3	44:SE:291:ILE:HB	1.76	0.67
45:SF:213:ARG:HG3	45:SF:214:THR:HG23	1.77	0.67
45:SJ:105:HIS:CE1	45:SJ:150:LEU:HD12	2.29	0.67
45:SL:104:GLY:O	45:SL:109:GLY:HA3	1.93	0.67
44:SM:122:ILE:HG13	44:SM:156:ARG:HH22	1.60	0.67
44:TC:228:ASN:HA	44:TC:231:ILE:HD12	1.76	0.67
44:TE:22:GLU:HG3	44:TE:83:TYR:CE2	2.30	0.67
44:TE:225:THR:HA	44:TE:228:ASN:ND2	2.08	0.67
45:TH:110:ALA:O	45:TH:113:ILE:HG22	1.94	0.67
44:TI:201:ALA:N	44:TI:266:HIS:O	2.22	0.67
45:TJ:243:PRO:HA	44:TK:73:THR:CG2	2.24	0.67
45:TL:61:PRO:CD	45:TL:84:LEU:HB3	2.25	0.67
44:TM:188:ILE:HD12	44:TM:425:LEU:CD1	2.23	0.67
44:UA:139:ASN:OD1	44:UA:170:THR:HG22	1.93	0.67
45:UB:240:LEU:HD12	45:UB:250:LEU:H	1.60	0.67
44:UC:141:VAL:CG1	44:UC:172:TYR:HA	2.24	0.67
45:UF:267:MET:HG2	45:UF:369:GLY:O	1.93	0.67
44:UG:98:ASP:OD1	44:UG:99:ALA:N	2.27	0.67
44:UG:268:MET:HB2	44:UG:379:SER:O	1.95	0.67
45:UL:306:ARG:HD2	45:UL:306:ARG:O	1.93	0.67
44:UM:27:GLU:OE1	44:UM:236:SER:OG	2.12	0.67
45:UN:209:ASP:HA	45:UN:213:ARG:NH1	2.09	0.67
44:VA:221:ARG:NE	45:VB:322:SER:HB3	2.09	0.67
45:VB:117:LEU:HD21	45:VB:121:ARG:HH22	1.60	0.67
45:VB:203:ASP:OD2	45:VB:302:ALA:N	2.26	0.67
45:VD:114:ASP:OD1	45:VD:115:SER:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:130:LEU:HB3	45:VF:162:ARG:NE	2.09	0.67
45:VH:130:LEU:HD21	45:VH:133:PHE:CZ	2.30	0.67
45:VH:172:SER:CB	45:VH:205:GLU:HB2	2.24	0.67
44:VI:172:TYR:HB3	44:VI:173:PRO:HD2	1.77	0.67
45:VJ:114:ASP:HA	45:VJ:117:LEU:CD2	2.24	0.67
45:VL:318:ARG:NH1	45:VL:358:PRO:HG3	2.10	0.67
44:VM:217:LEU:HB3	44:VM:219:ILE:HG13	1.76	0.67
45:VN:198:GLU:HG2	45:VN:266:PHE:HE2	1.59	0.67
45:WB:88:ASP:OD1	45:WB:89:ASN:N	2.28	0.67
45:WB:244:GLY:HA2	45:WB:355:ASP:CG	2.14	0.67
44:WC:257:THR:HA	45:WF:397:TRP:NE1	2.10	0.67
44:WE:16:VAL:HB	44:WE:231:ILE:HD11	1.75	0.67
44:WI:239:THR:O	44:WI:243:ARG:NE	2.23	0.67
44:WI:271:SER:OG	44:WI:301:MET:SD	2.52	0.67
44:WM:210:TYR:CG	45:WN:324:LYS:HD2	2.29	0.67
21:1K:165:GLN:NE2	44:GC:362:VAL:HG21	2.08	0.67
10:1N:179:ILE:HD11	45:KJ:31:ASP:OD2	1.94	0.67
27:1W:165:ILE:HA	45:LD:279:GLN:NE2	2.08	0.67
11:2Q:72:LYS:HD2	36:5S:71:ARG:HB3	1.77	0.67
31:3H:205:GLN:HB3	44:AG:82:THR:HG23	1.76	0.67
37:5A:102:TYR:OH	44:KA:390:ARG:HD2	1.95	0.67
38:5H:12:ASN:ND2	45:NL:57:GLY:HA3	2.10	0.67
39:5K:45:LYS:O	44:JK:430:LYS:HE3	1.95	0.67
39:5K:66:SER:HA	39:5K:69:LYS:HD3	1.77	0.67
39:5K:74:ASP:O	39:5K:78:THR:HG23	1.95	0.67
35:5R:157:THR:O	35:5R:157:THR:HG22	1.95	0.67
40:6F:15:LYS:NZ	40:6F:17:PHE:O	2.20	0.67
35:6R:249:LEU:CB	44:CM:370:LYS:HZ3	2.06	0.67
35:6R:534:HIS:HE1	35:6R:578:TYR:CZ	2.10	0.67
35:7R:9:VAL:HG21	35:7R:15:HIS:NE2	2.10	0.67
35:7R:429:LYS:N	35:7R:506:LEU:HD23	2.09	0.67
35:7R:470:PHE:CD2	35:7R:471:LEU:HG	2.30	0.67
35:7R:509:ASP:OD2	44:EA:40:LYS:HG2	1.94	0.67
44:AA:120:ASP:O	44:AA:123:ARG:HG3	1.95	0.67
44:AA:210:TYR:CE1	44:AA:227:LEU:HD11	2.30	0.67
45:AB:12:CYS:CB	45:AB:138:SER:HB2	2.24	0.67
45:AB:282:ARG:O	45:MB:55:THR:HG22	1.94	0.67
45:AD:255:VAL:HG13	45:AD:256:ASN:OD1	1.93	0.67
45:AH:21:TRP:CH2	45:AH:61:PRO:HB3	2.29	0.67
45:AJ:278:SER:HA	45:AJ:281:TYR:CD2	2.29	0.67
44:AM:19:ALA:HA	44:AM:22:GLU:OE1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:231:ILE:HG22	44:BA:235:ILE:HD11	1.75	0.67
44:BC:195:LEU:O	44:BC:195:LEU:HD23	1.93	0.67
44:BC:288:VAL:HA	44:BC:291:ILE:HG12	1.75	0.67
44:BE:2:ARG:NH2	44:BE:242:LEU:HA	2.10	0.67
44:BE:129:CYS:HB2	44:BE:132:LEU:HD21	1.76	0.67
44:BI:156:ARG:O	44:BI:159:VAL:HG12	1.95	0.67
45:BJ:139:LEU:CD1	45:BJ:168:SER:HB3	2.25	0.67
45:BJ:377:MET:HA	45:BJ:380:ARG:CG	2.25	0.67
44:BM:217:LEU:HB3	44:BM:219:ILE:CD1	2.24	0.67
44:CA:322:ASP:OD1	44:CA:373:ARG:NH1	2.23	0.67
44:CC:223:THR:HG22	44:CC:224:TYR:H	1.59	0.67
45:CH:268:ILE:HG22	45:CH:368:VAL:HG22	1.75	0.67
44:CM:209:ILE:HD11	44:CM:302:MET:SD	2.35	0.67
45:CN:45:GLU:O	45:CN:46:ARG:HD3	1.95	0.67
45:CN:66:MET:HA	45:CN:91:VAL:CG2	2.25	0.67
45:DD:8:GLN:HG3	45:DD:136:THR:O	1.94	0.67
44:DI:14:ILE:HD11	44:DI:69:ASP:CB	2.22	0.67
45:DJ:289:LEU:HD21	45:DJ:363:MET:HE1	1.76	0.67
44:DK:385:ALA:HA	44:DK:388:PHE:HD2	1.59	0.67
45:DN:40:SER:OG	45:DN:43:GLN:HB2	1.95	0.67
45:EB:395:LEU:HG	45:EB:399:THR:HG23	1.75	0.67
45:ED:299:MET:HG3	45:ED:305:PRO:CG	2.22	0.67
45:EF:164:MET:HB2	45:EF:197:ASP:H	1.59	0.67
45:EH:178:THR:HB	45:EH:181:GLU:CG	2.20	0.67
45:EJ:114:ASP:OD1	45:EJ:115:SER:N	2.27	0.67
44:EM:69:ASP:OD2	44:EM:74:VAL:HG21	1.94	0.67
44:EM:115:VAL:HG11	44:EM:152:LEU:HD23	1.76	0.67
45:EN:309:ARG:HH12	45:EN:343:GLU:HG3	1.59	0.67
45:EN:335:ASN:HA	45:EN:338:SER:OG	1.94	0.67
44:FA:71:GLU:OE2	44:FA:72:PRO:HD2	1.94	0.67
44:FA:311:LYS:HD2	44:FA:342:GLN:HG3	1.76	0.67
45:FF:256:ASN:HD22	45:FF:350:LYS:HD2	1.59	0.67
44:FG:195:LEU:HD11	44:FG:264:ARG:NH1	2.09	0.67
45:FJ:109:GLY:O	45:FJ:113:ILE:HG23	1.94	0.67
45:FJ:186:THR:HG21	45:FJ:412:GLU:OE2	1.95	0.67
44:FK:325:PRO:O	44:FK:328:VAL:HB	1.94	0.67
44:FM:404:PHE:CE1	45:FN:259:PRO:HA	2.30	0.67
45:GB:377:MET:O	45:GB:380:ARG:HG2	1.95	0.67
44:GC:88:HIS:CE1	44:GC:90:GLU:HG2	2.30	0.67
44:GE:262:TYR:HB3	44:GE:263:PRO:HD2	1.76	0.67
45:GH:323:THR:O	45:GH:327:ASP:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:100:ALA:HB1	45:GJ:252:LYS:HA	1.76	0.67
45:GJ:22:GLU:HG2	45:GJ:81:PHE:CD2	2.29	0.67
44:GK:12:GLY:O	44:GK:16:VAL:HG22	1.94	0.67
45:GL:305:PRO:HA	45:GL:373:ALA:HB2	1.77	0.67
44:GM:417:GLU:N	44:GM:417:GLU:OE1	2.25	0.67
45:GN:5:VAL:HG23	45:GN:7:ILE:CD1	2.25	0.67
44:HA:145:THR:HG22	46:HA:501:GTP:O2G	1.95	0.67
44:HA:252:ILE:HA	44:HA:255:PHE:CZ	2.29	0.67
44:HG:407:TRP:CZ3	45:HH:255:VAL:HA	2.30	0.67
44:HI:153:LEU:O	44:HI:157:LEU:HD23	1.94	0.67
45:HN:101:TRP:CE3	45:HN:187:LEU:HD13	2.30	0.67
45:IB:7:ILE:HD11	45:IB:64:ILE:HD13	1.77	0.67
45:IB:372:THR:HA	45:IB:422:TYR:HE2	1.60	0.67
44:IC:88:HIS:HE1	44:IC:90:GLU:HG2	1.57	0.67
44:IC:195:LEU:HD13	44:IC:428:LEU:HD22	1.76	0.67
45:ID:276:ARG:NH1	45:ID:276:ARG:HB2	2.09	0.67
44:IE:63:PRO:HD3	44:IE:86:LEU:HG	1.77	0.67
45:IF:86:ARG:NH1	44:JC:283:HIS:HB2	2.09	0.67
44:IG:244:PHE:CZ	44:IG:358:GLN:HG2	2.29	0.67
44:IK:369:ALA:O	44:IK:371:VAL:HG13	1.94	0.67
45:IL:112:LEU:O	45:IL:112:LEU:HD23	1.94	0.67
44:IM:161:TYR:HB3	44:IM:164:LYS:HE2	1.74	0.67
44:IM:221:ARG:HE	45:IN:321:MET:HE3	1.60	0.67
44:IM:407:TRP:HH2	45:IN:254:ALA:HB1	1.58	0.67
45:IN:310:TYR:CD1	45:IN:371:SER:HB2	2.30	0.67
44:JA:209:ILE:CG2	44:JA:227:LEU:HD22	2.25	0.67
44:JA:329:ASN:HB3	45:JD:175:VAL:HG11	1.76	0.67
44:JE:104:ALA:HB1	44:JE:411:GLU:OE1	1.93	0.67
44:JG:174:SER:HB2	44:JG:177:VAL:O	1.94	0.67
45:JH:113:ILE:O	45:JH:116:VAL:HG12	1.94	0.67
45:JJ:46:ARG:O	45:JJ:49:VAL:HG12	1.94	0.67
44:JM:27:GLU:HG3	44:JM:28:HIS:ND1	2.10	0.67
45:KB:274:THR:HG21	45:KB:282:ARG:CD	2.25	0.67
44:KE:217:LEU:HD21	44:KE:275:ILE:HG22	1.75	0.67
44:KG:74:VAL:HG13	45:KH:247:ASN:HD21	1.58	0.67
45:KH:317:PHE:CD1	45:KH:365:VAL:HG22	2.30	0.67
44:KI:68:LEU:HD13	44:KI:93:ILE:HB	1.77	0.67
44:KK:141:VAL:HG12	44:KK:171:ILE:O	1.94	0.67
44:KK:259:LEU:HD11	44:KK:268:MET:HE1	1.77	0.67
44:KK:265:ILE:HD12	44:KK:432:TYR:CE2	2.30	0.67
44:KK:335:ILE:O	44:KK:338:LYS:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:372:MET:HA	44:KK:372:MET:HE3	1.77	0.67
44:KM:215:ARG:NH2	44:KM:216:ASN:HA	2.09	0.67
45:KN:262:ARG:HH22	45:KN:418:LEU:HD13	1.60	0.67
44:LC:101:ASN:OD1	45:LD:252:LYS:HD2	1.93	0.67
45:LH:304:ASP:OD1	45:LH:305:PRO:HD2	1.93	0.67
45:LJ:20:PHE:HB2	45:LJ:233:MET:CE	2.25	0.67
45:LN:61:PRO:HG2	45:LN:84:LEU:HB3	1.77	0.67
44:MC:349:THR:O	45:MF:179:VAL:HG23	1.95	0.67
45:MF:342:VAL:HG13	45:MF:345:ILE:HG22	1.76	0.67
44:MG:188:ILE:HG13	44:MG:425:LEU:CD1	2.23	0.67
44:MG:237:SER:HA	44:MG:320:ARG:HH22	1.59	0.67
44:MI:204:LEU:HG	44:MI:302:MET:CE	2.24	0.67
45:ML:174:LYS:HE2	45:ML:205:GLU:HG3	1.77	0.67
44:MM:13:GLY:HA2	44:MM:16:VAL:HG22	1.76	0.67
45:NB:173:PRO:HD3	45:NB:380:ARG:CD	2.23	0.67
44:NI:195:LEU:HD21	44:NI:264:ARG:HH21	1.57	0.67
45:NL:31:ASP:HB3	45:NL:37:HIS:HD2	1.58	0.67
45:NL:304:ASP:HB3	45:NL:307:HIS:ND1	2.10	0.67
44:NM:205:ASP:OD1	44:NM:303:ALA:HA	1.94	0.67
44:NM:276:ILE:HG13	44:NM:371:VAL:CA	2.25	0.67
45:NN:136:THR:HA	45:NN:167:PHE:HB2	1.75	0.67
44:OC:427:ALA:O	44:OC:430:LYS:HG3	1.94	0.67
45:OD:135:ILE:HD13	45:OD:152:ILE:CD1	2.23	0.67
44:OE:292:THR:HA	44:OE:295:ALA:HB2	1.76	0.67
44:OE:328:VAL:O	44:OE:332:ILE:HG13	1.94	0.67
44:OK:261:PRO:HB3	45:ON:394:PHE:CE1	2.28	0.67
44:OM:3:GLU:OE2	44:OM:130:THR:N	2.27	0.67
45:PB:258:ILE:HG13	45:PB:266:PHE:HZ	1.60	0.67
44:PC:320:ARG:NE	44:PC:360:PRO:HD3	2.09	0.67
45:PD:60:VAL:HG23	45:PD:84:LEU:O	1.94	0.67
45:PD:253:LEU:CA	45:PD:257:LEU:HD13	2.24	0.67
44:PE:386:GLU:O	44:PE:389:SER:OG	2.09	0.67
45:PF:406:MET:O	45:PF:410:GLU:HG3	1.94	0.67
44:PG:352:LYS:HA	45:PJ:177:ASP:O	1.94	0.67
45:PH:7:ILE:HD13	45:PH:151:LEU:HD21	1.76	0.67
45:PJ:112:LEU:O	45:PJ:112:LEU:HD23	1.94	0.67
44:PK:288:VAL:HB	44:PK:373:ARG:HH21	1.59	0.67
44:PM:284:GLU:HG3	44:PM:286:LEU:CD2	2.24	0.67
45:QF:286:VAL:HG12	45:QF:329:GLN:HG3	1.77	0.67
45:QH:327:ASP:HB3	44:QI:177:VAL:CG1	2.22	0.67
45:QJ:77:ARG:HH12	45:QJ:87:PRO:HA	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:161:TYR:HB3	44:QK:164:LYS:CE	2.24	0.67
45:QL:173:PRO:CG	45:QL:380:ARG:HD3	2.23	0.67
44:RC:169:PHE:CE1	44:RC:202:VAL:HG21	2.30	0.67
45:RD:156:ARG:NH1	45:RD:160:PRO:HA	2.10	0.67
44:RE:144:GLY:N	46:RE:501:GTP:O2G	2.26	0.67
44:RE:231:ILE:O	44:RE:234:VAL:HG12	1.95	0.67
44:RG:20:CYS:HA	44:RG:232:ALA:HB2	1.76	0.67
44:RG:155:GLU:HG2	44:RG:197:HIS:NE2	2.09	0.67
44:RK:289:ALA:HA	44:RK:292:THR:HG22	1.76	0.67
45:RL:314:SER:CB	45:RL:350:LYS:HB3	2.24	0.67
45:SB:52:ASN:HB2	45:SB:60:VAL:CG1	2.25	0.67
44:SC:32:PRO:HB3	44:SC:83:TYR:HE1	1.60	0.67
44:SC:35:GLN:NE2	44:SC:60:LYS:HG3	2.09	0.67
44:SC:208:ALA:HB2	44:SC:304:LYS:HB2	1.75	0.67
45:SD:357:PRO:HB2	45:SD:361:LEU:O	1.94	0.67
44:SE:296:PHE:CE2	44:SE:335:ILE:HG12	2.30	0.67
44:SE:316:SER:N	44:SE:378:ILE:O	2.27	0.67
44:SG:259:LEU:HD21	44:SG:316:SER:CB	2.24	0.67
44:SK:275:ILE:O	44:SK:275:ILE:HG23	1.94	0.67
44:TA:3:GLU:HG3	44:TA:50:ASN:O	1.94	0.67
44:TA:75:ILE:HG21	44:TA:94:SER:HB2	1.77	0.67
44:TE:203:MET:HG3	44:TE:384:ILE:HD11	1.76	0.67
44:TK:203:MET:HE1	44:TK:267:PHE:HD2	1.60	0.67
44:TK:315:CYS:N	44:TK:350:GLY:O	2.27	0.67
45:TN:63:ALA:O	45:TN:89:ASN:ND2	2.21	0.67
45:UB:201:VAL:HG23	45:UB:301:CYS:SG	2.33	0.67
44:UC:71:GLU:OE2	44:UC:73:THR:HB	1.93	0.67
44:UC:114:ILE:HA	44:UC:117:LEU:CD1	2.24	0.67
45:UD:102:ALA:HB2	45:UD:403:MET:CE	2.25	0.67
44:UE:66:VAL:HG21	44:UE:122:ILE:HD11	1.77	0.67
45:UF:383:GLU:HA	45:UF:386:THR:HG22	1.77	0.67
45:UH:133:PHE:HB2	45:UH:164:MET:SD	2.34	0.67
44:UK:183:GLU:O	44:UK:186:ASN:N	2.27	0.67
44:UK:286:LEU:O	44:UK:373:ARG:NH2	2.26	0.67
44:UK:383:ALA:O	44:UK:386:GLU:HG2	1.94	0.67
45:UL:1:MET:O	45:UL:2:ARG:HG2	1.94	0.67
44:UM:406:HIS:HA	44:UM:409:VAL:CG2	2.24	0.67
44:UM:433:GLU:O	44:UM:437:ILE:HG23	1.95	0.67
44:VA:96:LYS:HB3	45:VB:1:MET:CE	2.24	0.67
45:VB:67:ASP:O	45:VB:92:PHE:HA	1.94	0.67
44:VC:318:MET:O	44:VC:375:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:25:SER:HG	45:VF:51:TYR:HH	1.41	0.67
45:VF:289:LEU:HD13	45:VF:365:VAL:CG2	2.25	0.67
44:VI:324:VAL:CG1	44:VI:325:PRO:HD2	2.23	0.67
44:VI:377:MET:O	44:VI:378:ILE:HD13	1.93	0.67
44:VI:433:GLU:O	44:VI:437:ILE:HG23	1.94	0.67
45:VL:270:PHE:HD2	45:VL:273:LEU:HD11	1.60	0.67
44:VM:11:GLN:HE21	44:VM:15:GLN:HE22	1.43	0.67
45:VN:99:ASN:HA	45:VN:142:GLY:CA	2.23	0.67
44:WA:115:VAL:HB	44:WA:153:LEU:HD23	1.77	0.67
45:WB:207:LEU:HB3	45:WB:225:LEU:HD22	1.76	0.67
44:WE:3:GLU:N	44:WE:131:GLY:O	2.27	0.67
44:WE:195:LEU:HD12	44:WE:266:HIS:NE2	2.09	0.67
45:WH:286:VAL:HG21	45:WH:325:GLU:OE1	1.94	0.67
44:WI:119:LEU:CD2	44:WI:156:ARG:HD3	2.24	0.67
44:WK:73:THR:HB	45:WL:247:ASN:HD22	1.60	0.67
44:WK:259:LEU:HD21	44:WK:316:SER:HB2	1.76	0.67
44:WM:157:LEU:HA	44:WM:160:ASP:HB2	1.76	0.67
8:OG:90:GLY:O	45:JN:276:ARG:NH2	2.13	0.67
4:1C:56:THR:CA	44:EM:219:ILE:HG12	2.25	0.67
15:1V:167:TYR:CZ	44:MK:400:ALA:HA	2.30	0.67
2:2A:36:ARG:HH21	45:MJ:242:PHE:HB3	1.60	0.67
5:2D:35:LYS:HE2	44:DK:85:GLN:HE21	1.57	0.67
2:3A:39:TYR:HE2	44:MM:78:VAL:HA	1.58	0.67
31:4H:222:LYS:HE3	44:MK:76:ASP:HB3	1.77	0.67
11:5Q:29:ILE:CG1	11:5Q:34:ILE:HD11	2.21	0.67
35:5R:493:GLY:HA3	35:5R:582:TYR:HB2	1.75	0.67
35:5R:536:ARG:HG3	35:5R:609:LEU:HD22	1.75	0.67
35:6R:469:LYS:HE2	35:6R:472:GLU:HA	1.75	0.67
44:AA:22:GLU:HG3	44:AA:83:TYR:OH	1.94	0.67
44:AA:88:HIS:HB3	44:AA:91:GLN:HG2	1.75	0.67
44:AA:399:TYR:CD1	44:AA:402:ARG:HG2	2.28	0.67
45:AB:47:ILE:O	45:AB:51:TYR:HB2	1.95	0.67
45:AB:130:LEU:HG	45:AB:162:ARG:CD	2.23	0.67
45:AB:182:PRO:HG3	45:AB:384:GLN:OE1	1.94	0.67
44:AE:179:THR:HG23	45:AF:351:SER:OG	1.94	0.67
45:AH:193:VAL:HA	45:AH:264:HIS:NE2	2.10	0.67
44:AK:238:LEU:O	44:AK:238:LEU:HD23	1.95	0.67
44:AM:403:ALA:HB2	45:AN:344:TRP:CZ3	2.30	0.67
45:AN:86:ARG:HH21	45:AN:87:PRO:CG	2.07	0.67
45:AN:262:ARG:NH2	45:AN:421:GLU:OE1	2.27	0.67
45:AN:360:GLY:O	45:AN:361:LEU:HD23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:101:TRP:HZ3	45:BD:187:LEU:HD22	1.60	0.67
45:BD:186:THR:HA	45:BD:415:MET:HE1	1.75	0.67
44:BE:73:THR:OG1	45:BF:2:ARG:NH2	2.26	0.67
45:BF:341:PHE:HE2	45:BF:349:ILE:HD11	1.60	0.67
44:BG:175:PRO:HB2	44:BG:176:GLN:OE1	1.94	0.67
45:BH:132:GLY:HA2	45:BH:162:ARG:HB3	1.76	0.67
45:BH:356:ILE:HG22	45:BH:357:PRO:CD	2.15	0.67
45:BL:69:GLU:OE1	45:BL:71:GLY:N	2.27	0.67
44:CA:186:ASN:OD1	44:CA:187:SER:N	2.28	0.67
44:CA:260:VAL:HB	45:CB:397:TRP:CZ2	2.30	0.67
45:CB:416:ASN:OD1	45:CB:417:ASP:N	2.28	0.67
44:CE:88:HIS:HE1	44:CE:90:GLU:HG2	1.58	0.67
44:CE:320:ARG:HH12	44:CE:360:PRO:CA	2.08	0.67
45:CF:346:PRO:HD2	44:CG:398:MET:HE1	1.75	0.67
44:CI:89:PRO:HB3	44:DI:280:LYS:NZ	2.10	0.67
44:CI:98:ASP:OD1	44:CI:99:ALA:N	2.28	0.67
45:CJ:130:LEU:HD21	45:CJ:133:PHE:CE1	2.29	0.67
45:CL:292:GLN:O	45:CL:298:ASN:ND2	2.25	0.67
45:CL:323:THR:HG21	44:CM:224:TYR:CZ	2.30	0.67
45:CL:324:LYS:HB2	44:CM:210:TYR:CE1	2.30	0.67
44:CM:231:ILE:O	44:CM:234:VAL:HG12	1.93	0.67
44:DA:103:PHE:HA	44:DA:144:GLY:O	1.95	0.67
45:DB:9:GLY:HA2	45:DB:66:MET:O	1.95	0.67
44:DC:175:PRO:CG	44:DC:304:LYS:HG2	2.24	0.67
45:DD:242:PHE:CD2	45:DD:356:ILE:HB	2.29	0.67
45:DF:69:GLU:OE2	45:DF:72:THR:N	2.27	0.67
44:DG:216:ASN:HB3	44:DG:275:ILE:O	1.94	0.67
44:DI:315:CYS:SG	44:DI:379:SER:HB3	2.35	0.67
44:DK:111:GLY:HA2	44:DK:149:LEU:HD21	1.77	0.67
45:DN:21:TRP:CZ3	45:DN:61:PRO:HB3	2.30	0.67
45:DN:139:LEU:HD13	45:DN:168:SER:HB3	1.75	0.67
45:EB:262:ARG:NH2	45:EB:421:GLU:OE1	2.28	0.67
44:EC:288:VAL:O	44:EC:292:THR:N	2.26	0.67
45:ED:102:ALA:HB1	45:ED:403:MET:CE	2.24	0.67
44:EE:69:ASP:OD1	44:EE:70:LEU:N	2.28	0.67
44:EE:401:LYS:C	44:EE:402:ARG:HD3	2.14	0.67
45:EH:166:THR:CB	45:EH:200:MET:HG3	2.25	0.67
44:EM:23:LEU:HD21	44:EM:233:GLN:HA	1.77	0.67
45:EN:227:HIS:O	45:EN:231:ALA:N	2.28	0.67
45:FD:87:PRO:HG2	45:GD:278:SER:HB2	1.77	0.67
44:FI:278:ALA:N	44:FI:369:ALA:HB2	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:362:VAL:HG21	44:FI:370:LYS:HB3	1.77	0.67
44:FM:278:ALA:HA	44:FM:281:ALA:HB3	1.76	0.67
44:FM:394:LYS:HD2	45:FN:346:PRO:CG	2.24	0.67
45:FN:21:TRP:CZ3	45:FN:61:PRO:HB3	2.30	0.67
45:FN:66:MET:CE	45:FN:116:VAL:HG21	2.24	0.67
45:FN:170:VAL:HG13	45:FN:201:VAL:HG13	1.77	0.67
45:FN:293:MET:CE	45:FN:315:ALA:HA	2.25	0.67
44:GA:420:GLU:O	44:GA:423:GLU:HG2	1.94	0.67
45:GB:377:MET:HA	45:GB:380:ARG:NE	2.10	0.67
45:GD:253:LEU:HD21	45:GD:257:LEU:HD22	1.77	0.67
44:GE:325:PRO:HG3	44:GE:355:ILE:HD13	1.76	0.67
45:GF:97:ALA:CB	45:GF:143:THR:HB	2.25	0.67
45:GF:113:ILE:HG21	45:GF:150:LEU:CD2	2.23	0.67
45:GF:175:VAL:HG13	45:GF:205:GLU:HG2	1.74	0.67
45:GH:86:ARG:NH2	45:HH:278:SER:HA	2.10	0.67
45:GH:187:LEU:HD23	45:GH:411:ALA:HB2	1.77	0.67
45:GL:274:THR:OG1	45:GL:282:ARG:NH1	2.27	0.67
45:GN:317:PHE:HA	45:GN:365:VAL:HG22	1.77	0.67
44:HE:3:GLU:OE2	44:HE:131:GLY:N	2.28	0.67
45:HF:221:THR:H	45:HF:224:ASP:HB2	1.58	0.67
44:IA:185:TYR:HE2	44:IA:404:PHE:HB2	1.60	0.67
45:ID:6:HIS:HB3	45:ID:63:ALA:CA	2.22	0.67
44:IE:273:ALA:HB1	44:IE:274:PRO:HA	1.77	0.67
44:II:55:GLU:HG3	44:II:57:GLY:H	1.59	0.67
45:IJ:68:LEU:HB2	45:IJ:147:MET:CE	2.24	0.67
45:IL:282:ARG:NH1	45:IL:292:GLN:OE1	2.23	0.67
45:IN:326:VAL:O	45:IN:330:MET:HG2	1.95	0.67
44:JC:6:SER:O	44:JC:66:VAL:HG12	1.94	0.67
44:JC:184:PRO:O	44:JC:188:ILE:HD12	1.95	0.67
44:JE:167:LEU:HD22	44:JE:200:VAL:HB	1.75	0.67
44:JG:88:HIS:HB3	44:JG:91:GLN:HB3	1.75	0.67
44:JM:141:VAL:HG21	44:JM:172:TYR:HE1	1.60	0.67
44:KA:185:TYR:CE1	44:KA:398:MET:HG3	2.29	0.67
45:KB:169:VAL:HG22	45:KB:202:ILE:HB	1.75	0.67
44:KE:7:ILE:HG13	44:KE:66:VAL:CG2	2.23	0.67
44:KE:103:PHE:HB2	44:KE:186:ASN:HB3	1.76	0.67
45:KF:49:VAL:HG13	45:KF:50:TYR:HD2	1.59	0.67
45:KH:60:VAL:HG21	45:KH:86:ARG:HB3	1.74	0.67
45:KJ:166:THR:HG22	45:KJ:198:GLU:O	1.94	0.67
44:LC:105:ARG:O	44:LC:110:ILE:HG22	1.94	0.67
44:LG:434:GLU:O	44:LG:437:ILE:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MA:174:SER:CB	44:MA:207:GLU:HB2	2.24	0.67
45:MB:42:LEU:HB2	45:MB:242:PHE:CZ	2.30	0.67
45:MF:138:SER:HA	45:MF:169:VAL:HG22	1.74	0.67
45:MJ:210:ILE:HG23	45:MJ:214:THR:HG21	1.75	0.67
44:MK:176:GLN:OE1	44:MK:176:GLN:N	2.26	0.67
44:MK:332:ILE:HG23	44:MK:351:PHE:HE2	1.60	0.67
45:ML:166:THR:HG21	45:ML:192:LEU:HD11	1.76	0.67
45:ML:257:LEU:HD11	45:ML:314:SER:CB	2.25	0.67
45:NB:317:PHE:HA	45:NB:365:VAL:CG2	2.13	0.67
45:NF:22:GLU:HA	45:NF:81:PHE:CE2	2.29	0.67
44:NG:325:PRO:HG3	45:NJ:222:TYR:CE2	2.30	0.67
44:NI:11:GLN:NE2	45:NJ:246:LEU:HA	2.06	0.67
44:NK:223:THR:HB	45:NL:322:SER:HB2	1.75	0.67
44:NK:284:GLU:OE2	44:NK:284:GLU:HA	1.95	0.67
44:NK:332:ILE:HD12	44:NK:351:PHE:CD2	2.30	0.67
45:NL:309:ARG:NH1	45:NL:339:SER:O	2.26	0.67
45:NL:407:GLU:O	45:NL:410:GLU:HG3	1.95	0.67
44:OA:378:ILE:O	44:OA:379:SER:OG	2.12	0.67
45:OB:6:HIS:ND1	45:OB:134:GLN:OE1	2.24	0.67
44:OC:21:TRP:O	44:OC:25:CYS:N	2.21	0.67
44:OG:171:ILE:HG12	44:OG:204:LEU:CB	2.19	0.67
44:OI:10:GLY:O	44:OI:14:ILE:HG12	1.94	0.67
44:OK:386:GLU:HA	44:OK:389:SER:HB3	1.76	0.67
45:OL:4:ILE:HG13	45:OL:5:VAL:H	1.59	0.67
44:PA:318:MET:CG	44:PA:376:CYS:HB3	2.25	0.67
45:PD:253:LEU:O	45:PD:257:LEU:N	2.28	0.67
44:PE:254:GLU:HG2	45:PH:98:GLY:CA	2.20	0.67
45:PF:290:THR:HG21	45:PF:329:GLN:CG	2.23	0.67
45:PH:7:ILE:HB	45:PH:135:ILE:HD12	1.76	0.67
45:PH:22:GLU:HG2	45:PH:81:PHE:CD1	2.30	0.67
45:PH:284:LEU:HB3	45:PH:363:MET:CE	2.25	0.67
45:PH:316:LEU:O	45:PH:365:VAL:HA	1.94	0.67
45:PL:248:SER:CA	45:PL:252:LYS:HD2	2.24	0.67
44:PM:68:LEU:HD21	44:PM:118:CYS:HB2	1.75	0.67
44:PM:201:ALA:HB3	44:PM:267:PHE:HA	1.76	0.67
44:PM:434:GLU:O	44:PM:437:ILE:HG12	1.95	0.67
45:QB:8:GLN:O	45:QB:14:ASN:ND2	2.27	0.67
45:QD:74:ASP:OD1	45:QD:77:ARG:NH1	2.28	0.67
44:QE:392:ASP:OD2	44:QE:422:ARG:NH1	2.27	0.67
45:QF:97:ALA:HA	45:QF:103:LYS:HD2	1.75	0.67
45:QF:256:ASN:OD1	44:QG:180:ALA:HB1	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:19:LYS:HG3	45:QH:23:VAL:HG23	1.74	0.67
44:QI:174:SER:HB3	44:QI:207:GLU:HG2	1.76	0.67
45:QJ:324:LYS:HD2	44:QK:210:TYR:CG	2.30	0.67
45:QL:12:CYS:SG	45:QL:169:VAL:HG21	2.35	0.67
45:QL:309:ARG:O	45:QL:372:THR:HG23	1.95	0.67
45:QN:319:GLY:HA2	45:QN:357:PRO:HD3	1.76	0.67
45:RB:6:HIS:CE1	45:RB:8:GLN:HB3	2.30	0.67
45:RB:49:VAL:HG11	45:RB:241:ARG:CG	2.24	0.67
45:RB:255:VAL:HA	44:RC:407:TRP:HZ3	1.57	0.67
45:RD:1:MET:C	45:RD:2:ARG:HD3	2.14	0.67
45:RD:164:MET:HB2	45:RD:197:ASP:CB	2.24	0.67
45:RH:244:GLY:HA3	45:RH:354:CYS:HA	1.77	0.67
44:RK:386:GLU:O	44:RK:390:ARG:HG2	1.94	0.67
45:RL:1:MET:O	45:RL:2:ARG:HG2	1.94	0.67
44:RM:328:VAL:HG12	44:RM:332:ILE:CG1	2.24	0.67
44:SA:236:SER:O	44:SA:240:ALA:N	2.28	0.67
45:SB:141:GLY:HA3	48:SB:501:GDP:O1B	1.95	0.67
45:SB:238:CYS:HB2	45:SB:318:ARG:CZ	2.24	0.67
45:SB:256:ASN:ND2	45:SB:350:LYS:HD2	2.10	0.67
45:SB:372:THR:HA	45:SB:422:TYR:OH	1.95	0.67
44:SE:233:GLN:HB3	44:SE:272:TYR:CZ	2.29	0.67
45:SF:65:LEU:CD2	45:SF:76:VAL:HG11	2.24	0.67
44:SG:4:VAL:HG23	44:SG:134:GLY:O	1.94	0.67
45:SH:177:ASP:HB2	48:SH:501:GDP:O3'	1.94	0.67
44:SI:206:ASN:O	44:SI:209:ILE:N	2.25	0.67
45:SL:11:GLN:HA	45:SL:14:ASN:HD22	1.60	0.67
45:SL:99:ASN:HA	45:SL:142:GLY:N	2.10	0.67
45:SL:222:TYR:HB3	48:SL:501:GDP:O6	1.94	0.67
44:SM:106:GLY:O	44:SM:111:GLY:HA3	1.95	0.67
45:SN:25:SER:O	45:SN:29:GLY:N	2.27	0.67
44:TA:171:ILE:HG21	46:TA:501:GTP:HN22	1.60	0.67
45:TD:316:LEU:CB	45:TD:366:THR:HB	2.24	0.67
44:TE:9:VAL:HG13	44:TE:139:ASN:HB3	1.75	0.67
45:TF:8:GLN:OE1	45:TF:17:GLY:HA3	1.93	0.67
45:TF:230:SER:HA	45:TF:233:MET:HE3	1.76	0.67
45:TH:7:ILE:HB	45:TH:135:ILE:CD1	2.25	0.67
45:TJ:130:LEU:HB3	45:TJ:162:ARG:NE	2.09	0.67
44:TK:11:GLN:HB2	46:TK:501:GTP:O1B	1.94	0.67
45:UF:4:ILE:HG22	45:UF:132:GLY:N	2.09	0.67
45:UH:286:VAL:HB	45:UH:287:PRO:HD3	1.76	0.67
45:UH:405:GLU:O	45:UH:409:THR:N	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:23:LEU:HD21	44:UI:233:GLN:OE1	1.95	0.67
45:UJ:20:PHE:O	45:UJ:24:ILE:HG12	1.94	0.67
45:UJ:50:TYR:O	45:UJ:62:ARG:HG2	1.95	0.67
44:UK:207:GLU:HG2	44:UK:304:LYS:HZ1	1.58	0.67
45:UL:399:THR:HA	45:UL:403:MET:O	1.94	0.67
44:VA:181:VAL:HG22	45:VB:256:ASN:OD1	1.95	0.67
44:VC:102:ASN:HB3	44:VC:105:ARG:HB2	1.76	0.67
44:VG:3:GLU:O	44:VG:133:GLN:N	2.27	0.67
44:VG:242:LEU:HD11	44:VG:252:ILE:CG1	2.25	0.67
44:VM:105:ARG:O	44:VM:110:ILE:HG12	1.94	0.67
45:VN:21:TRP:CZ3	45:VN:61:PRO:HB3	2.29	0.67
44:WA:181:VAL:HG22	45:WB:256:ASN:CG	2.15	0.67
45:WB:73:MET:HA	45:WB:76:VAL:CG1	2.23	0.67
45:WB:184:ASN:HA	45:WB:187:LEU:HD12	1.77	0.67
44:WC:284:GLU:HG3	44:WC:286:LEU:HD22	1.75	0.67
44:WE:338:LYS:HD3	44:WE:340:THR:HG22	1.76	0.67
44:WI:172:TYR:HB2	44:WI:203:MET:CE	2.24	0.67
45:WJ:355:ASP:O	45:WJ:356:ILE:HD13	1.93	0.67
44:WK:73:THR:HB	45:WL:247:ASN:ND2	2.09	0.67
44:WK:286:LEU:N	44:WK:290:GLU:OE2	2.27	0.67
44:WM:273:ALA:HA	44:WM:275:ILE:HD12	1.76	0.67
8:0G:48:SER:OG	44:JK:225:THR:HG21	1.93	0.67
18:1F:145:SER:OG	45:GL:74:ASP:OD1	2.12	0.67
22:1L:45:ARG:NE	45:BJ:362:LYS:HE2	2.09	0.67
13:1T:96:GLN:NE2	44:MC:414:GLU:HG3	2.09	0.67
29:2F:48:ILE:HG21	44:GC:362:VAL:HG11	1.75	0.67
32:2I:134:LYS:HE3	45:GD:328:GLU:HG3	1.76	0.67
16:2X:1:MET:O	45:ML:71:GLY:HA3	1.94	0.67
2:3A:59:ALA:HB1	45:MN:1:MET:CE	2.23	0.67
26:3R:256:ARG:CD	44:CK:42:ILE:HD12	2.25	0.67
15:3V:156:LEU:HD22	44:MC:386:GLU:OE2	1.94	0.67
35:4R:301:PRO:HG3	45:CF:74:ASP:CB	2.23	0.67
16:4X:81:ARG:HD2	35:5R:14:GLY:O	1.93	0.67
37:5D:58:TYR:CE2	45:KN:180:VAL:HG22	2.28	0.67
37:5D:117:PRO:HD2	44:NM:323:VAL:HG22	1.75	0.67
38:5F:75:PHE:HB2	45:KF:421:GLU:CD	2.13	0.67
39:5I:66:SER:HA	39:5I:69:LYS:HD3	1.76	0.67
35:5R:12:LEU:HB2	35:5R:15:HIS:HD2	1.60	0.67
41:6G:279:TYR:CD1	44:UC:96:LYS:HE3	2.30	0.67
35:6R:538:PHE:CZ	35:6R:578:TYR:CA	2.78	0.67
35:7R:69:LYS:HD3	35:7R:70:ARG:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:217:LEU:HD12	45:AB:217:LEU:O	1.95	0.67
45:AB:268:ILE:HG22	45:AB:368:VAL:HG22	1.76	0.67
45:AD:313:ALA:O	45:AD:349:ILE:HD12	1.93	0.67
45:AD:330:MET:O	45:AD:333:VAL:HG12	1.95	0.67
45:AF:201:VAL:HG23	45:AF:301:CYS:SG	2.35	0.67
45:AH:68:LEU:HD23	45:AH:97:ALA:HB2	1.75	0.67
45:AH:259:PRO:HG2	45:AH:311:LEU:HD21	1.76	0.67
44:AI:407:TRP:HZ3	45:AJ:255:VAL:HA	1.58	0.67
45:AN:267:MET:CE	45:AN:301:CYS:HB2	2.24	0.67
45:BF:374:ILE:HD11	45:BF:422:TYR:CE1	2.30	0.67
44:BI:105:ARG:O	44:BI:110:ILE:HG12	1.94	0.67
44:BK:247:ALA:H	44:BK:357:TYR:HE1	1.41	0.67
44:BK:408:TYR:HB3	44:BK:413:MET:HE3	1.77	0.67
45:BL:372:THR:HA	45:BL:422:TYR:CE2	2.29	0.67
44:BM:3:GLU:OE2	44:BM:131:GLY:N	2.27	0.67
44:CA:329:ASN:ND2	45:CB:175:VAL:HG12	2.06	0.67
45:CD:322:SER:OG	44:CE:222:PRO:O	2.13	0.67
45:CH:65:LEU:HD22	45:CH:90:PHE:CZ	2.29	0.67
45:CN:32:PRO:HG3	45:CN:81:PHE:CE1	2.30	0.67
44:DA:316:SER:CA	44:DA:352:LYS:HB3	2.24	0.67
45:DD:405:GLU:HA	45:DD:408:PHE:CD2	2.26	0.67
44:DE:3:GLU:OE2	44:DE:130:THR:N	2.28	0.67
44:DE:241:SER:OG	44:DE:250:VAL:O	2.03	0.67
45:DJ:321:MET:HE1	45:DJ:326:VAL:HG22	1.77	0.67
44:DK:37:PRO:HD2	44:DK:38:SER:H	1.58	0.67
44:DM:107:HIS:O	44:DM:107:HIS:ND1	2.27	0.67
45:DN:21:TRP:HA	45:DN:24:ILE:HD12	1.76	0.67
45:EB:136:THR:HA	45:EB:167:PHE:HB2	1.77	0.67
45:EB:178:THR:HB	45:EB:181:GLU:HG3	1.74	0.67
45:EB:178:THR:HG22	45:EB:180:VAL:H	1.60	0.67
44:EC:153:LEU:O	44:EC:157:LEU:HD12	1.94	0.67
44:EC:269:LEU:HD23	44:EC:379:SER:O	1.94	0.67
45:EH:100:ASN:OD1	45:EH:103:LYS:HB2	1.95	0.67
44:EI:16:VAL:HA	44:EI:228:ASN:OD1	1.94	0.67
45:EN:226:ASN:OD1	45:EN:227:HIS:N	2.28	0.67
44:FA:102:ASN:HB3	44:FA:105:ARG:HB2	1.76	0.67
45:FB:23:VAL:HG21	45:FB:230:SER:HB2	1.75	0.67
45:FD:97:ALA:HB3	45:FD:143:THR:CG2	2.24	0.67
44:FE:225:THR:HA	44:FE:228:ASN:HD22	1.59	0.67
45:FJ:148:GLY:O	45:FJ:152:ILE:HG12	1.94	0.67
44:FK:337:THR:O	44:FK:339:ARG:NH1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:210:TYR:CZ	44:FM:227:LEU:HD11	2.29	0.67
45:GL:67:ASP:OD1	45:GL:68:LEU:N	2.27	0.67
45:GL:233:MET:O	45:GL:236:VAL:HG12	1.93	0.67
44:HA:141:VAL:CG1	44:HA:173:PRO:HD3	2.22	0.67
45:HB:133:PHE:HB2	45:HB:164:MET:SD	2.34	0.67
44:HC:205:ASP:OD1	44:HC:303:ALA:HA	1.94	0.67
44:HC:272:TYR:HD2	44:HC:275:ILE:HD11	1.59	0.67
44:HC:407:TRP:HZ3	45:HD:255:VAL:HA	1.60	0.67
45:HD:45:GLU:O	45:HD:46:ARG:HD3	1.93	0.67
44:HE:3:GLU:OE2	44:HE:130:THR:N	2.28	0.67
44:HE:99:ALA:HB3	44:HE:145:THR:HB	1.76	0.67
45:HF:173:PRO:CG	45:HF:380:ARG:HD3	2.24	0.67
44:HG:144:GLY:O	44:HG:147:SER:OG	2.10	0.67
45:HJ:201:VAL:HG23	45:HJ:301:CYS:SG	2.34	0.67
44:HK:131:GLY:O	44:HK:133:GLN:HG2	1.94	0.67
44:HK:252:ILE:HA	44:HK:255:PHE:CE2	2.30	0.67
44:HM:313:MET:CE	44:HM:382:THR:HG22	2.25	0.67
44:IA:73:THR:HB	45:IB:247:ASN:HD22	1.60	0.67
44:IA:297:GLU:HB3	44:IA:300:ASN:ND2	2.10	0.67
45:IB:100:ASN:ND2	45:IB:401:GLU:OE1	2.26	0.67
44:IE:250:VAL:HG12	44:IE:255:PHE:HE1	1.57	0.67
45:IH:55:THR:OG1	44:JE:286:LEU:HD21	1.94	0.67
44:JC:1:MET:SD	44:JC:2:ARG:NH1	2.67	0.67
44:JE:55:GLU:HG3	44:JE:57:GLY:H	1.60	0.67
44:JE:350:GLY:HA2	45:JH:179:VAL:CG1	2.22	0.67
45:JH:208:TYR:CE1	45:JH:225:LEU:HD11	2.30	0.67
44:JI:188:ILE:HD11	44:JI:425:LEU:HD22	1.77	0.67
44:JK:195:LEU:CD1	44:JK:428:LEU:HD22	2.24	0.67
44:KA:56:THR:HG21	44:LA:283:HIS:O	1.93	0.67
44:KG:210:TYR:CE1	44:KG:227:LEU:HD11	2.30	0.67
44:KI:349:THR:OG1	45:KL:176:SER:OG	2.02	0.67
44:KK:312:TYR:O	44:KK:344:VAL:HG12	1.94	0.67
44:KK:340:THR:HG23	44:KK:341:ILE:CD1	2.15	0.67
44:KM:178:SER:HB3	45:KN:347:ASN:ND2	2.09	0.67
44:LA:9:VAL:HG21	44:LA:149:LEU:CB	2.24	0.67
44:LA:310:GLY:O	44:LA:342:GLN:NE2	2.27	0.67
45:LB:31:ASP:OD1	45:LB:34:GLY:N	2.28	0.67
45:LB:164:MET:HB2	45:LB:197:ASP:HB2	1.77	0.67
45:LB:256:ASN:HD22	45:LB:350:LYS:HD2	1.59	0.67
45:LJ:314:SER:CB	45:LJ:350:LYS:HB3	2.25	0.67
44:LK:257:THR:O	45:LN:397:TRP:HZ3	1.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LK:398:MET:HG2	45:LL:345:ILE:HG22	1.77	0.67
45:LL:161:ASP:OD2	45:LL:162:ARG:NH2	2.27	0.67
45:LN:97:ALA:CB	45:LN:143:THR:HB	2.22	0.67
44:MA:332:ILE:O	44:MA:335:ILE:HG22	1.94	0.67
44:MC:13:GLY:O	44:MC:17:GLY:N	2.27	0.67
45:MD:242:PHE:CD2	45:MD:356:ILE:HB	2.30	0.67
44:ME:311:LYS:O	44:ME:382:THR:HG23	1.95	0.67
44:MG:210:TYR:CE1	44:MG:227:LEU:HD11	2.23	0.67
45:MH:341:PHE:HD1	45:MH:348:ASN:HD21	1.42	0.67
45:MJ:2:ARG:N	45:MJ:129:CYS:SG	2.60	0.67
45:ML:232:ALA:HB1	45:ML:268:ILE:HD12	1.77	0.67
45:MN:325:GLU:HA	45:MN:328:GLU:CG	2.24	0.67
45:NB:314:SER:OG	45:NB:368:VAL:HB	1.93	0.67
45:ND:116:VAL:HA	45:ND:119:VAL:HG22	1.75	0.67
45:NF:49:VAL:HG21	45:NF:241:ARG:CG	2.25	0.67
45:NH:87:PRO:HD3	45:OH:281:TYR:HD2	1.59	0.67
45:NL:404:ASP:OD1	45:NL:406:MET:HG2	1.94	0.67
45:NN:198:GLU:OE2	45:NN:254:ALA:HB2	1.95	0.67
45:NN:261:PRO:HD2	45:NN:262:ARG:N	2.08	0.67
44:OE:346:TRP:HD1	45:OH:391:ARG:HH21	1.43	0.67
45:OF:135:ILE:O	45:OF:166:THR:HA	1.94	0.67
44:OG:62:VAL:HG21	44:PG:283:HIS:O	1.94	0.67
45:OH:186:THR:O	45:OH:189:VAL:HG12	1.93	0.67
44:OM:18:ASN:OD1	44:OM:19:ALA:N	2.27	0.67
44:PA:195:LEU:HD22	44:PA:428:LEU:HD11	1.77	0.67
45:PB:318:ARG:HB2	45:PB:364:ALA:CB	2.25	0.67
45:PD:61:PRO:CD	45:PD:84:LEU:HB3	2.25	0.67
45:PD:318:ARG:C	45:PD:357:PRO:HB3	2.15	0.67
45:PF:20:PHE:CD1	45:PF:24:ILE:C	2.67	0.67
45:PL:51:TYR:HE1	45:PL:61:PRO:HG3	1.59	0.67
45:PL:55:THR:HG23	45:QJ:283:ALA:HA	1.76	0.67
44:PM:88:HIS:ND1	44:PM:89:PRO:HD2	2.09	0.67
45:QB:218:THR:HG23	45:QB:219:THR:HG23	1.76	0.67
44:QC:288:VAL:HG21	44:QC:323:VAL:HG21	1.77	0.67
45:QD:135:ILE:HG13	45:QD:152:ILE:CD1	2.25	0.67
44:QK:7:ILE:N	44:QK:136:LEU:O	2.26	0.67
45:QL:333:VAL:O	45:QL:337:ASN:N	2.26	0.67
44:QM:115:VAL:HG22	44:QM:119:LEU:HD23	1.74	0.67
45:QN:288:GLU:O	45:QN:291:GLN:HG3	1.94	0.67
44:RA:265:ILE:HD11	44:RA:435:VAL:HG21	1.77	0.67
45:RB:207:LEU:O	45:RB:210:ILE:HG22	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:194:LEU:HB2	44:RC:198:THR:CG2	2.25	0.67
44:RC:249:ASN:OD1	44:RC:250:VAL:N	2.28	0.67
45:RD:190:HIS:O	45:RD:193:VAL:HG12	1.94	0.67
44:RE:75:ILE:HG23	44:RE:92:LEU:CG	2.24	0.67
44:RE:314:ALA:HB3	44:RE:380:ASN:CB	2.24	0.67
44:RG:236:SER:HA	44:RG:239:THR:HG22	1.75	0.67
45:RH:143:THR:HG23	48:RH:501:GDP:O1B	1.95	0.67
45:RJ:240:LEU:O	45:RJ:240:LEU:HD23	1.95	0.67
45:RL:274:THR:HB	45:RL:282:ARG:NH1	2.10	0.67
45:SB:29:GLY:O	45:SB:37:HIS:N	2.24	0.67
45:SD:289:LEU:CD1	45:SD:363:MET:HG3	2.25	0.67
44:SI:318:MET:O	44:SI:375:VAL:HG23	1.95	0.67
45:SJ:101:TRP:CE3	45:SJ:187:LEU:HD13	2.30	0.67
44:SK:88:HIS:HB3	44:SK:91:GLN:CB	2.25	0.67
44:SM:276:ILE:HD12	44:SM:281:ALA:CB	2.23	0.67
45:TB:20:PHE:CD1	45:TB:233:MET:HB3	2.30	0.67
44:TE:224:TYR:HE1	46:TE:501:GTP:C6	2.12	0.67
45:TF:138:SER:HA	45:TF:169:VAL:HB	1.75	0.67
45:TF:383:GLU:HA	45:TF:386:THR:HG22	1.76	0.67
45:TJ:293:MET:HE2	45:TJ:367:PHE:HD1	1.59	0.67
44:TK:48:ALA:O	44:TK:51:THR:HG23	1.94	0.67
44:TM:301:MET:CE	44:TM:307:PRO:HG3	2.25	0.67
45:TN:23:VAL:HA	45:TN:26:ASP:OD2	1.95	0.67
45:UB:375:GLN:HE22	45:UB:423:GLN:HB3	1.60	0.67
45:UD:20:PHE:HA	45:UD:230:SER:HB3	1.76	0.67
45:UD:287:PRO:HA	45:UD:290:THR:HG22	1.76	0.67
45:UJ:212:PHE:O	45:UJ:216:LYS:HA	1.94	0.67
45:UJ:296:ALA:HA	45:UJ:299:MET:HE1	1.77	0.67
44:UK:80:THR:HA	44:UK:84:ARG:CZ	2.25	0.67
44:UM:88:HIS:ND1	44:UM:89:PRO:HD2	2.10	0.67
44:VA:6:SER:O	44:VA:66:VAL:HG12	1.94	0.67
44:VA:257:THR:HA	45:VD:397:TRP:NE1	2.10	0.67
45:VB:9:GLY:HA2	45:VB:66:MET:O	1.95	0.67
45:VD:175:VAL:O	45:VD:175:VAL:HG23	1.95	0.67
44:VG:88:HIS:H	44:VG:91:GLN:HE21	1.43	0.67
45:VJ:11:GLN:HG3	45:VJ:72:THR:OG1	1.94	0.67
44:VK:118:CYS:O	44:VK:122:ILE:HG12	1.95	0.67
45:VN:296:ALA:HA	45:VN:305:PRO:HG2	1.77	0.67
44:WC:5:ILE:HG13	44:WC:135:PHE:HB3	1.76	0.67
44:WE:144:GLY:O	44:WE:147:SER:N	2.28	0.67
44:WG:202:VAL:HA	44:WG:268:MET:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:203:MET:HE2	44:WI:205:ASP:N	2.10	0.67
45:WN:116:VAL:O	45:WN:119:VAL:HG12	1.95	0.67
45:WN:211:CYS:HA	45:WN:215:LEU:HB2	1.77	0.67
8:OG:45:MET:CE	44:JK:77:GLU:HB2	2.24	0.67
15:OV:74:VAL:HG12	45:MN:306:ARG:HD3	1.77	0.67
8:1G:170:LYS:HE3	45:KD:92:PHE:CZ	2.28	0.67
20:1J:171:TYR:HE1	45:HH:57:GLY:HA2	1.59	0.67
25:1P:168:ARG:HH12	44:TI:369:ALA:HB1	1.59	0.67
25:1P:222:LEU:HD22	44:TG:282:TYR:CD2	2.30	0.67
22:2L:870:ARG:HD2	45:CJ:357:PRO:HG2	1.76	0.67
35:5R:469:LYS:CE	35:5R:472:GLU:HA	2.25	0.67
35:7R:450:ASP:OD1	35:7R:452:THR:OG1	2.13	0.67
42:8L:290:UNK:O	42:8L:294:UNK:N	2.27	0.67
45:AB:91:VAL:HG21	45:AB:116:VAL:CB	2.24	0.67
44:AC:2:ARG:HB2	44:AC:133:GLN:CG	2.25	0.67
44:AE:4:VAL:HG13	44:AE:134:GLY:O	1.94	0.67
44:AK:70:LEU:HD13	44:AK:110:ILE:HD12	1.77	0.67
44:AK:352:LYS:HA	45:AN:177:ASP:O	1.95	0.67
44:BA:278:ALA:N	44:BA:369:ALA:HB2	2.09	0.67
44:BE:12:GLY:N	46:BE:501:GTP:O2A	2.26	0.67
44:BE:99:ALA:HB3	44:BE:145:THR:CG2	2.25	0.67
45:BJ:114:ASP:OD1	45:BJ:115:SER:N	2.26	0.67
44:BK:313:MET:HE1	44:BK:435:VAL:HG11	1.77	0.67
45:BL:210:ILE:O	45:BL:214:THR:OG1	2.13	0.67
44:BM:175:PRO:HG2	44:BM:304:LYS:CE	2.16	0.67
45:CB:10:GLY:N	45:CB:66:MET:HG2	2.09	0.67
45:CB:271:ALA:HB1	45:CB:272:PRO:HA	1.75	0.67
45:CB:329:GLN:OE1	45:CB:329:GLN:HA	1.94	0.67
44:CC:27:GLU:OE2	44:CC:243:ARG:NH1	2.27	0.67
44:CI:64:ARG:NH1	44:CI:129:CYS:SG	2.68	0.67
44:CI:103:PHE:HD1	44:CI:147:SER:HG	1.41	0.67
44:CI:104:ALA:CB	44:CI:411:GLU:HB2	2.23	0.67
45:CJ:371:SER:O	45:CJ:422:TYR:OH	2.12	0.67
44:CK:401:LYS:HE2	44:CK:403:ALA:HB2	1.76	0.67
45:CL:31:ASP:N	45:CL:35:THR:O	2.23	0.67
45:DB:36:TYR:CE2	45:DB:44:LEU:HG	2.29	0.67
45:DD:52:ASN:ND2	45:DD:62:ARG:HB3	2.10	0.67
44:DE:268:MET:CE	44:DE:380:ASN:HB2	2.24	0.67
44:DG:14:ILE:CD1	44:DG:69:ASP:HB2	2.24	0.67
44:DG:80:THR:C	44:DG:84:ARG:HD2	2.16	0.67
45:DH:271:ALA:HB3	45:DH:272:PRO:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:141:VAL:HG12	44:DI:171:ILE:O	1.95	0.67
44:DK:238:LEU:O	44:DK:238:LEU:HD23	1.94	0.67
45:DL:317:PHE:CA	45:DL:365:VAL:HG22	2.23	0.67
44:DM:36:MET:HG2	44:DM:37:PRO:HD2	1.76	0.67
44:DM:205:ASP:OD2	44:DM:304:LYS:N	2.26	0.67
45:DN:3:GLU:CG	45:DN:127:CYS:HB2	2.23	0.67
45:DN:42:LEU:HG	45:DN:45:GLU:OE2	1.95	0.67
45:DN:201:VAL:HG23	45:DN:301:CYS:SG	2.34	0.67
45:DN:289:LEU:HD13	45:DN:365:VAL:HG23	1.77	0.67
45:DN:333:VAL:O	45:DN:337:ASN:N	2.28	0.67
44:EA:230:LEU:O	44:EA:234:VAL:HG13	1.95	0.67
44:EA:313:MET:N	44:EA:380:ASN:O	2.28	0.67
45:EB:310:TYR:CD1	45:EB:371:SER:HB2	2.29	0.67
44:EC:53:PHE:CE2	44:EC:63:PRO:HG3	2.30	0.67
45:ED:116:VAL:HG11	45:ED:151:LEU:HD12	1.77	0.67
44:EE:37:PRO:HG2	44:EE:40:LYS:N	2.07	0.67
44:EE:284:GLU:HG3	44:EE:286:LEU:HD21	1.76	0.67
45:EF:375:GLN:HG2	45:EF:376:GLU:N	2.10	0.67
45:EH:330:MET:SD	45:EH:349:ILE:HG21	2.35	0.67
45:EJ:327:ASP:HB3	44:EK:177:VAL:HG13	1.76	0.67
44:EM:111:GLY:O	44:EM:115:VAL:HG13	1.94	0.67
45:EN:83:GLN:O	45:FN:281:TYR:OH	2.08	0.67
44:FA:387:VAL:O	44:FA:391:LEU:HB2	1.94	0.67
45:FB:3:GLU:HB2	45:FB:49:VAL:HA	1.75	0.67
45:FB:21:TRP:HA	45:FB:24:ILE:HB	1.77	0.67
44:FC:424:ASP:O	44:FC:428:LEU:N	2.19	0.67
45:FD:143:THR:HB	45:FD:147:MET:CE	2.22	0.67
44:FE:70:LEU:CD1	44:FE:149:LEU:HD21	2.23	0.67
44:FG:9:VAL:HG21	44:FG:149:LEU:HB2	1.75	0.67
44:FI:119:LEU:HA	44:FI:122:ILE:HG22	1.76	0.67
44:FI:237:SER:HA	44:FI:320:ARG:CZ	2.25	0.67
45:FJ:32:PRO:HG3	45:FJ:81:PHE:CE1	2.30	0.67
44:FK:344:VAL:HG11	44:FK:346:TRP:CZ2	2.30	0.67
44:GA:287:SER:HA	44:GA:373:ARG:NH2	2.10	0.67
45:GB:1:MET:HG3	45:GB:2:ARG:N	2.10	0.67
44:GC:108:TYR:HE2	44:GC:413:MET:HG3	1.58	0.67
44:GC:328:VAL:HG11	44:GC:353:VAL:HG21	1.77	0.67
45:GD:423:GLN:O	45:GD:426:GLN:HB3	1.95	0.67
45:GH:67:ASP:OD2	45:GH:72:THR:HG21	1.95	0.67
44:GI:188:ILE:HD12	44:GI:425:LEU:HD11	1.75	0.67
44:GI:288:VAL:HG11	44:GI:327:ASP:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:105:HIS:CE1	45:GL:150:LEU:HB2	2.30	0.67
44:GM:280:LYS:HG2	44:GM:283:HIS:NE2	2.09	0.67
45:GN:1:MET:O	45:GN:2:ARG:HG2	1.95	0.67
44:HA:276:ILE:HD11	44:HA:280:LYS:HG3	1.77	0.67
45:HB:203:ASP:OD2	45:HB:302:ALA:N	2.27	0.67
45:HB:396:HIS:O	45:HB:400:GLY:N	2.28	0.67
44:HC:1:MET:HG2	44:HC:2:ARG:HH11	1.59	0.67
45:HD:20:PHE:O	45:HD:24:ILE:HD12	1.94	0.67
45:HF:99:ASN:HA	45:HF:142:GLY:CA	2.22	0.67
44:HG:1:MET:CE	45:HJ:94:GLN:HG3	2.25	0.67
44:HG:91:GLN:O	44:HG:93:ILE:HD12	1.94	0.67
44:HG:118:CYS:O	44:HG:122:ILE:HD12	1.94	0.67
45:HH:132:GLY:N	45:HH:162:ARG:HD3	2.10	0.67
44:HI:70:LEU:HD11	44:HI:149:LEU:CD2	2.25	0.67
45:HL:302:ALA:HB3	45:HL:377:MET:CE	2.21	0.67
44:HM:209:ILE:HG22	44:HM:227:LEU:HD22	1.75	0.67
45:HN:3:GLU:HB2	45:HN:49:VAL:O	1.95	0.67
45:HN:208:TYR:CZ	45:HN:225:LEU:HD11	2.29	0.67
44:IA:119:LEU:CD1	44:IA:123:ARG:HH12	2.08	0.67
44:IC:272:TYR:CE2	44:IC:275:ILE:HD11	2.29	0.67
45:ID:114:ASP:OD1	45:ID:115:SER:N	2.28	0.67
45:IN:360:GLY:O	45:IN:361:LEU:HD23	1.94	0.67
45:JB:66:MET:HB3	45:JB:91:VAL:CG2	2.25	0.67
45:JB:134:GLN:HA	45:JB:165:GLU:HB2	1.77	0.67
45:JJ:378:PHE:HA	45:JJ:381:VAL:CG1	2.24	0.67
44:JM:248:LEU:HD23	44:JM:353:VAL:O	1.95	0.67
45:KB:294:PHE:HE2	45:KB:333:VAL:HG21	1.57	0.67
44:KE:287:SER:HA	44:KE:373:ARG:NH2	2.09	0.67
45:KF:186:THR:HG21	45:KF:385:PHE:CE1	2.30	0.67
45:KF:202:ILE:HD11	45:KF:268:ILE:HD11	1.77	0.67
44:KG:54:SER:HB2	44:KG:64:ARG:NH1	2.10	0.67
45:KJ:86:ARG:HB3	45:KJ:89:ASN:OD1	1.95	0.67
44:KK:198:THR:HB	44:KK:266:HIS:CE1	2.30	0.67
44:KK:269:LEU:HB2	44:KK:301:MET:CE	2.23	0.67
45:KL:1:MET:C	45:KL:2:ARG:HD3	2.14	0.67
44:KM:327:ASP:O	44:KM:331:SER:N	2.22	0.67
44:LA:340:THR:CG2	44:LA:341:ILE:HD12	2.14	0.67
45:LB:8:GLN:NE2	45:LB:17:GLY:HA3	2.08	0.67
45:LD:135:ILE:HG13	45:LD:152:ILE:HD11	1.76	0.67
45:LD:286:VAL:N	45:LD:287:PRO:HD2	2.10	0.67
45:LF:73:MET:HA	45:LF:76:VAL:HG12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LI:181:VAL:HB	45:LJ:256:ASN:OD1	1.95	0.67
45:LJ:130:LEU:HB3	45:LJ:162:ARG:HE	1.60	0.67
45:LJ:295:ASP:OD1	45:LJ:296:ALA:N	2.27	0.67
44:LM:269:LEU:HD23	44:LM:379:SER:O	1.95	0.67
45:LN:105:HIS:CE1	45:LN:150:LEU:HD12	2.30	0.67
45:LN:221:THR:HG23	45:LN:223:GLY:N	2.10	0.67
45:MB:330:MET:SD	45:MB:349:ILE:HG21	2.35	0.67
45:MF:3:GLU:HA	45:MF:49:VAL:HG13	1.77	0.67
45:MF:173:PRO:HG3	45:MF:380:ARG:HD3	1.76	0.67
45:NB:4:ILE:HG22	45:NB:132:GLY:N	2.09	0.67
45:ND:19:LYS:O	45:ND:23:VAL:N	2.23	0.67
45:ND:296:ALA:HB1	45:ND:305:PRO:HG2	1.77	0.67
45:NH:8:GLN:HE21	45:NH:65:LEU:HG	1.59	0.67
45:NH:213:ARG:HD3	45:NH:297:LYS:NZ	2.10	0.67
44:NI:395:PHE:CE2	44:NI:422:ARG:HD3	2.30	0.67
45:NJ:86:ARG:HB2	45:NJ:89:ASN:CG	2.15	0.67
44:NM:414:GLU:HB3	44:NM:417:GLU:OE1	1.95	0.67
45:NN:99:ASN:HA	45:NN:142:GLY:HA3	1.76	0.67
45:NN:306:ARG:HG3	45:NN:340:TYR:CD1	2.29	0.67
44:OA:93:ILE:HG21	44:OA:117:LEU:HD23	1.77	0.67
44:OA:205:ASP:OD1	44:OA:303:ALA:HA	1.95	0.67
44:OC:122:ILE:HG22	44:OC:161:TYR:OH	1.95	0.67
44:OC:205:ASP:OD1	44:OC:303:ALA:HA	1.93	0.67
45:OD:215:LEU:O	45:OD:275:SER:HA	1.95	0.67
44:OG:119:LEU:HD21	44:OG:156:ARG:HG2	1.76	0.67
44:OK:93:ILE:HG12	44:OK:117:LEU:CG	2.23	0.67
44:OK:256:GLN:HG3	45:ON:397:TRP:CZ2	2.29	0.67
44:OK:384:ILE:O	44:OK:387:VAL:HG12	1.95	0.67
45:OL:86:ARG:HD2	45:OL:87:PRO:HD2	1.75	0.67
44:PA:60:LYS:CE	44:PA:86:LEU:HA	2.25	0.67
45:PB:97:ALA:HB2	45:PB:143:THR:HB	1.75	0.67
45:PB:140:GLY:CA	45:PB:181:GLU:HG2	2.25	0.67
45:PD:87:PRO:HD3	45:QB:281:TYR:CZ	2.30	0.67
45:PD:310:TYR:CD1	45:PD:371:SER:HB2	2.30	0.67
44:PE:210:TYR:OH	45:PF:323:THR:OG1	2.12	0.67
44:PK:16:VAL:O	44:PK:20:CYS:N	2.26	0.67
45:PN:262:ARG:NH1	45:PN:421:GLU:OE1	2.28	0.67
45:PN:315:ALA:N	45:PN:350:LYS:O	2.27	0.67
44:QC:67:PHE:HD2	44:QC:92:LEU:HG	1.57	0.67
45:QD:370:ASN:OD1	45:QD:422:TYR:OH	2.13	0.67
45:QH:319:GLY:HA2	45:QH:357:PRO:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:67:ASP:OD1	45:QJ:68:LEU:N	2.25	0.67
45:QJ:256:ASN:OD1	44:QK:181:VAL:HG22	1.95	0.67
44:QM:70:LEU:HB3	44:QM:97:GLU:O	1.94	0.67
44:RA:145:THR:CA	44:RA:149:LEU:HD23	2.18	0.67
45:RB:66:MET:HG3	45:RB:116:VAL:HG21	1.75	0.67
45:RB:102:ALA:HB2	45:RB:403:MET:CE	2.24	0.67
44:RC:320:ARG:NE	44:RC:360:PRO:HG3	2.10	0.67
44:RE:313:MET:CE	44:RE:344:VAL:HG11	2.23	0.67
45:RF:77:ARG:HH21	45:RF:83:GLN:HA	1.60	0.67
45:RL:99:ASN:HA	45:RL:142:GLY:HA3	1.76	0.67
45:RL:251:ARG:NH1	44:RM:100:ALA:HB3	2.09	0.67
44:RM:422:ARG:NH1	44:RM:426:ALA:HB2	2.10	0.67
45:SB:68:LEU:HD22	45:SB:143:THR:HG21	1.77	0.67
45:SB:325:GLU:HG3	44:SC:221:ARG:HH11	1.59	0.67
44:SE:4:VAL:HG12	44:SE:51:THR:CG2	2.24	0.67
44:SG:261:PRO:HG3	44:SG:313:MET:SD	2.34	0.67
45:SJ:174:LYS:HB3	45:SJ:205:GLU:HG3	1.76	0.67
45:SL:48:ASN:HA	45:SL:51:TYR:O	1.94	0.67
45:SL:164:MET:N	45:SL:197:ASP:OD2	2.28	0.67
45:SL:312:THR:HA	45:SL:348:ASN:HB2	1.77	0.67
44:TA:104:ALA:HB2	44:TA:413:MET:HE3	1.76	0.67
45:TB:329:GLN:HE22	45:TB:330:MET:CE	2.07	0.67
44:TC:171:ILE:HG23	44:TC:204:LEU:O	1.94	0.67
45:TD:175:VAL:HG21	45:TD:204:ASN:HB2	1.76	0.67
45:TD:222:TYR:O	45:TD:226:ASN:ND2	2.27	0.67
45:TD:323:THR:HG21	44:TE:224:TYR:CD2	2.30	0.67
44:TE:14:ILE:CD1	44:TE:69:ASP:HB2	2.25	0.67
44:TE:257:THR:HG22	45:TF:397:TRP:HH2	1.60	0.67
44:TE:262:TYR:HB3	44:TE:263:PRO:HD2	1.76	0.67
44:TI:205:ASP:O	44:TI:209:ILE:HG13	1.94	0.67
45:TJ:73:MET:O	45:TJ:76:VAL:HG12	1.95	0.67
45:TN:35:THR:OG1	45:TN:56:GLY:N	2.28	0.67
45:TN:272:PRO:HG3	45:TN:289:LEU:HD21	1.75	0.67
44:UC:67:PHE:HB2	44:UC:92:LEU:HA	1.77	0.67
44:UE:33:ASP:HB3	44:UE:35:GLN:HE22	1.60	0.67
44:UG:115:VAL:HG22	44:UG:119:LEU:CD2	2.25	0.67
45:UJ:324:LYS:HD3	44:UK:222:PRO:CG	2.24	0.67
44:VG:279:GLU:C	44:VG:280:LYS:HD3	2.14	0.67
45:VJ:342:VAL:HG12	45:VJ:342:VAL:O	1.95	0.67
44:VM:68:LEU:HD21	44:VM:118:CYS:SG	2.34	0.67
44:VM:100:ALA:HB1	45:VN:252:LYS:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:25:SER:HB3	45:WB:30:ILE:HB	1.77	0.67
44:WC:17:GLY:HA2	44:WC:20:CYS:SG	2.34	0.67
45:WH:320:ARG:O	45:WH:320:ARG:HG2	1.95	0.67
44:WI:119:LEU:HG	44:WI:156:ARG:HD3	1.76	0.67
44:WM:115:VAL:O	44:WM:119:LEU:HD23	1.95	0.67
44:WM:248:LEU:HD21	44:WM:353:VAL:O	1.94	0.67
44:WM:318:MET:SD	44:WM:354:GLY:HA3	2.34	0.67
2:2A:152:LYS:HB2	35:5R:78:ILE:HD12	1.75	0.67
5:2D:59:GLY:HA3	44:EK:279:GLU:CG	2.24	0.67
29:2F:95:LEU:HD22	44:HE:340:THR:HG21	1.76	0.67
31:2H:183:PHE:CZ	45:AD:215:LEU:HD11	2.28	0.67
24:2O:185:ARG:NH2	45:VL:276:ARG:O	2.28	0.67
24:2O:239:ILE:HD13	45:VJ:276:ARG:HH12	1.58	0.67
2:3A:39:TYR:CZ	44:MM:78:VAL:HG22	2.29	0.67
31:4H:193:LEU:HD21	45:AL:362:LYS:HA	1.77	0.67
35:4R:354:ALA:HB3	44:CE:39:ASP:OD1	1.93	0.67
37:5D:19:ARG:C	45:KN:418:LEU:HB2	2.13	0.67
37:5D:107:TYR:CZ	44:NM:219:ILE:HD11	2.30	0.67
38:5F:60:TRP:HZ3	45:OF:274:THR:HG21	1.60	0.67
11:5Q:49:ILE:CG2	11:5Q:158:ALA:HA	2.25	0.67
35:5R:426:PHE:CZ	35:5R:512:THR:HG21	2.30	0.67
35:6R:80:ARG:NH2	44:MM:38:SER:CA	2.58	0.67
35:7R:207:ASP:H	35:7R:210:GLU:HG2	1.58	0.67
35:7R:294:ASN:H	45:DB:218:THR:CG2	2.07	0.67
42:8L:394:UNK:O	42:8L:398:UNK:N	2.27	0.67
45:AD:252:LYS:NZ	45:AD:255:VAL:HG11	2.10	0.67
45:AF:34:GLY:O	45:AF:58:ARG:HA	1.95	0.67
44:AG:284:GLU:HG3	44:AG:286:LEU:CD2	2.25	0.67
44:AG:384:ILE:HG23	44:AG:432:TYR:CE2	2.30	0.67
45:AJ:130:LEU:HD22	45:AJ:162:ARG:HG3	1.77	0.67
44:AM:102:ASN:CG	44:AM:105:ARG:HG3	2.15	0.67
44:AM:403:ALA:HB2	45:AN:344:TRP:CH2	2.29	0.67
44:BA:89:PRO:HD3	44:CA:283:HIS:CE1	2.29	0.67
44:BG:5:ILE:HG13	44:BG:132:LEU:HD12	1.76	0.67
44:BG:256:GLN:HB2	44:BG:260:VAL:CG2	2.24	0.67
44:BK:11:GLN:NE2	45:BL:245:GLN:O	2.28	0.67
44:BM:404:PHE:CE2	45:BN:259:PRO:HA	2.30	0.67
44:CG:340:THR:HG23	44:CG:341:ILE:HG13	1.76	0.67
44:CI:224:TYR:HD1	44:CI:227:LEU:HD12	1.59	0.67
45:CJ:60:VAL:HG11	45:CJ:86:ARG:HE	1.60	0.67
44:CK:325:PRO:O	44:CK:328:VAL:N	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:174:SER:HB3	44:DC:207:GLU:HB2	1.77	0.67
44:DI:23:LEU:HD21	44:DI:233:GLN:HG3	1.76	0.67
44:DK:188:ILE:HD11	44:DK:395:PHE:HB2	1.75	0.67
45:DL:64:ILE:HG23	45:DL:89:ASN:O	1.95	0.67
45:EB:205:GLU:HA	45:EB:208:TYR:HD2	1.60	0.67
45:EB:248:SER:HA	45:EB:252:LYS:HE3	1.75	0.67
45:ED:49:VAL:HG21	45:ED:241:ARG:HG2	1.76	0.67
44:EE:434:GLU:O	44:EE:437:ILE:HG12	1.94	0.67
45:FD:341:PHE:HB3	45:FD:348:ASN:HD21	1.59	0.67
44:FE:156:ARG:HG3	44:FE:160:ASP:OD2	1.94	0.67
44:FE:188:ILE:HD12	44:FE:425:LEU:CD1	2.25	0.67
45:FJ:420:SER:O	45:FJ:423:GLN:HG3	1.95	0.67
45:FN:217:LEU:HD11	45:FN:220:PRO:CG	2.25	0.67
45:FN:257:LEU:HA	45:FN:312:THR:OG1	1.95	0.67
45:GB:65:LEU:HD22	45:GB:90:PHE:CE1	2.29	0.67
45:GD:8:GLN:HE21	45:GD:65:LEU:HG	1.60	0.67
45:GD:246:LEU:HD21	46:GD:501:GTP:C8	2.29	0.67
45:GF:133:PHE:HB2	45:GF:164:MET:SD	2.34	0.67
45:GH:47:ILE:HD13	45:GH:59:TYR:HE2	1.59	0.67
44:GK:176:GLN:N	44:GK:176:GLN:OE1	2.28	0.67
45:GL:258:ILE:HG13	45:GL:266:PHE:HZ	1.58	0.67
45:GN:318:ARG:HD3	45:GN:358:PRO:CD	2.23	0.67
45:HB:133:PHE:CD2	45:HB:155:VAL:HG11	2.29	0.67
44:HC:407:TRP:CZ3	45:HD:255:VAL:HA	2.30	0.67
45:HH:7:ILE:HB	45:HH:135:ILE:CD1	2.25	0.67
45:HJ:47:ILE:HD13	45:HJ:59:TYR:HE2	1.59	0.67
44:HK:161:TYR:HB3	44:HK:164:LYS:CE	2.24	0.67
44:HM:315:CYS:O	44:HM:351:PHE:HA	1.95	0.67
44:IA:167:LEU:CG	44:IA:200:VAL:HB	2.23	0.67
45:IB:73:MET:HA	45:IB:76:VAL:HG12	1.75	0.67
45:IF:241:ARG:HH11	45:IF:241:ARG:HG3	1.58	0.67
45:IH:385:PHE:HE2	45:IH:412:GLU:HB2	1.59	0.67
44:IK:205:ASP:OD2	44:IK:304:LYS:N	2.24	0.67
45:IN:86:ARG:HH21	45:IN:87:PRO:CG	2.07	0.67
45:IN:268:ILE:CG2	45:IN:368:VAL:HG22	2.24	0.67
44:JA:96:LYS:HZ2	45:JB:1:MET:HA	1.60	0.67
45:JD:170:VAL:HG21	45:JD:377:MET:SD	2.35	0.67
44:JG:281:ALA:O	44:JG:284:GLU:HB2	1.95	0.67
44:JI:270:SER:OG	44:JI:302:MET:SD	2.52	0.67
45:JJ:19:LYS:HB3	45:JJ:230:SER:OG	1.94	0.67
45:JJ:314:SER:HA	45:JJ:350:LYS:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:239:THR:HG23	44:JM:242:LEU:HB2	1.76	0.67
44:JM:271:SER:OG	44:JM:377:MET:HB3	1.95	0.67
44:KK:326:LYS:HG2	45:KN:220:PRO:HD2	1.76	0.67
44:KM:105:ARG:O	44:KM:110:ILE:HG12	1.93	0.67
45:KN:100:ASN:HD22	45:KN:103:LYS:NZ	1.92	0.67
45:LH:46:ARG:HH11	45:LH:46:ARG:HG2	1.60	0.67
45:LN:6:HIS:HB2	45:LN:134:GLN:HE21	1.60	0.67
45:MD:383:GLU:O	45:MD:386:THR:HG22	1.95	0.67
44:ME:189:LEU:HD11	44:ME:418:PHE:HE1	1.60	0.67
44:ME:289:ALA:O	44:ME:292:THR:HG22	1.95	0.67
44:MK:54:SER:HB3	44:MK:64:ARG:NH1	2.10	0.67
44:MK:137:VAL:HG22	44:MK:167:LEU:O	1.94	0.67
44:MK:325:PRO:O	44:MK:328:VAL:HG12	1.95	0.67
44:MM:11:GLN:HE22	45:MN:246:LEU:HA	1.58	0.67
44:MM:434:GLU:O	44:MM:437:ILE:HG12	1.95	0.67
44:NA:68:LEU:HD21	44:NA:118:CYS:CB	2.22	0.67
45:NB:165:GLU:HA	45:NB:198:GLU:O	1.94	0.67
44:NC:118:CYS:O	44:NC:122:ILE:HG12	1.95	0.67
44:NC:273:ALA:HB1	44:NC:274:PRO:HA	1.77	0.67
44:NE:224:TYR:CD1	45:NF:323:THR:HG21	2.30	0.67
45:NF:217:LEU:CD1	45:NF:220:PRO:HB3	2.23	0.67
44:NI:398:MET:HE3	45:NJ:346:PRO:HD2	1.77	0.67
45:NJ:2:ARG:HB2	45:NJ:131:GLN:HG3	1.75	0.67
45:NJ:317:PHE:CE2	45:NJ:326:VAL:HG13	2.30	0.67
44:NM:425:LEU:HA	44:NM:428:LEU:CD1	2.25	0.67
45:OD:139:LEU:HG	45:OD:168:SER:OG	1.94	0.67
44:OE:14:ILE:HG12	44:OE:75:ILE:HD11	1.77	0.67
44:OG:435:VAL:HA	45:OJ:391:ARG:NH2	2.10	0.67
45:OH:77:ARG:HH21	45:OH:90:PHE:HD2	1.39	0.67
45:OH:130:LEU:HB2	45:OH:162:ARG:NH2	2.10	0.67
44:OK:165:SER:O	44:OK:166:LYS:HD2	1.95	0.67
44:PA:144:GLY:N	46:PA:501:GTP:O1G	2.27	0.67
45:PB:251:ARG:O	45:PB:255:VAL:HG23	1.94	0.67
44:PM:89:PRO:HG3	44:QM:280:LYS:CG	2.25	0.67
45:PN:11:GLN:O	45:PN:15:GLN:N	2.25	0.67
45:PN:49:VAL:HG11	45:PN:241:ARG:CG	2.24	0.67
45:PN:326:VAL:O	45:PN:330:MET:HG2	1.94	0.67
44:QC:223:THR:HG23	44:QC:225:THR:H	1.60	0.67
44:QE:254:GLU:CG	45:QF:98:GLY:HA2	2.24	0.67
44:QE:326:LYS:HD3	45:QF:212:PHE:CZ	2.27	0.67
45:QF:382:ALA:HB2	45:QF:415:MET:CE	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:1:MET:CE	45:QJ:94:GLN:HG2	2.25	0.67
44:QI:306:ASP:OD2	44:QI:308:ARG:NH2	2.24	0.67
45:QL:28:HIS:ND1	45:QL:43:GLN:O	2.20	0.67
45:QL:68:LEU:HG	45:QL:96:GLY:CA	2.24	0.67
44:RE:236:SER:O	44:RE:240:ALA:N	2.28	0.67
44:RE:313:MET:HA	44:RE:313:MET:HE2	1.77	0.67
44:RG:273:ALA:CB	44:RG:286:LEU:HD11	2.24	0.67
44:RG:311:LYS:N	44:RG:382:THR:OG1	2.24	0.67
45:RJ:267:MET:N	45:RJ:369:GLY:O	2.27	0.67
45:RL:178:THR:HB	45:RL:181:GLU:HG3	1.75	0.67
44:RM:13:GLY:HA2	44:RM:16:VAL:CG1	2.23	0.67
45:RN:319:GLY:N	45:RN:357:PRO:HB3	2.10	0.67
44:SA:258:ASN:HD21	45:SB:178:THR:HG23	1.58	0.67
44:SA:274:PRO:HD3	44:SA:374:ALA:HA	1.77	0.67
44:SE:19:ALA:HA	44:SE:22:GLU:OE1	1.95	0.67
44:SI:56:THR:HG23	44:SI:58:ALA:H	1.58	0.67
44:SI:276:ILE:CG2	44:SI:281:ALA:HA	2.23	0.67
45:SL:327:ASP:O	45:SL:331:LEU:N	2.25	0.67
44:SM:241:SER:OG	44:SM:250:VAL:O	2.12	0.67
44:TC:91:GLN:O	44:TC:93:ILE:HD12	1.94	0.67
44:TC:115:VAL:CG2	44:TC:156:ARG:HD2	2.24	0.67
44:TC:402:ARG:NH1	44:TC:405:VAL:HB	2.09	0.67
44:TE:174:SER:HB2	44:TE:177:VAL:O	1.94	0.67
44:TE:311:LYS:HD3	44:TE:342:GLN:NE2	2.08	0.67
45:TF:310:TYR:CD1	45:TF:371:SER:HB2	2.29	0.67
44:TG:265:ILE:CG2	44:TG:380:ASN:HD21	2.08	0.67
45:TH:174:LYS:HD3	45:TH:175:VAL:HG13	1.77	0.67
45:TJ:105:HIS:CD2	45:TJ:150:LEU:HB2	2.30	0.67
45:TJ:283:ALA:O	45:TJ:288:GLU:HG3	1.94	0.67
45:TN:358:PRO:HG2	45:TN:364:ALA:HB3	1.77	0.67
44:UA:287:SER:HA	44:UA:373:ARG:NH2	2.09	0.67
44:UE:215:ARG:NH2	44:UE:299:ALA:O	2.28	0.67
45:UF:166:THR:OG1	45:UF:198:GLU:O	2.08	0.67
45:UF:204:ASN:O	45:UF:207:LEU:HB2	1.95	0.67
44:UG:242:LEU:HD11	44:UG:252:ILE:CG1	2.25	0.67
44:UG:331:SER:O	44:UG:335:ILE:HG12	1.95	0.67
45:UH:312:THR:HA	45:UH:348:ASN:HB2	1.75	0.67
44:UK:174:SER:HB2	44:UK:177:VAL:O	1.94	0.67
44:UK:236:SER:O	44:UK:243:ARG:NH2	2.28	0.67
45:UN:99:ASN:ND2	48:UN:501:GDP:O2A	2.17	0.67
44:VA:88:HIS:CG	44:VA:89:PRO:HD2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:404:PHE:CE2	45:VD:259:PRO:HA	2.29	0.67
44:VE:14:ILE:HD11	44:VE:69:ASP:HB2	1.75	0.67
44:VG:174:SER:HB2	44:VG:177:VAL:O	1.94	0.67
45:VJ:7:ILE:CB	45:VJ:135:ILE:HD12	2.23	0.67
45:VJ:257:LEU:HD11	45:VJ:314:SER:HB2	1.77	0.67
44:VK:229:ARG:NH1	44:VK:363:VAL:HG11	2.10	0.67
44:VK:404:PHE:CZ	45:VL:259:PRO:HA	2.30	0.67
44:VM:294:SER:O	44:VM:300:ASN:ND2	2.24	0.67
45:VN:28:HIS:HD1	45:VN:43:GLN:HG3	1.60	0.67
45:VN:99:ASN:HD21	45:VN:184:ASN:HD22	1.41	0.67
44:WC:115:VAL:HB	44:WC:152:LEU:HD23	1.77	0.67
44:WI:210:TYR:O	44:WI:214:ARG:N	2.27	0.67
45:WL:60:VAL:CG2	45:WL:86:ARG:HD2	2.21	0.67
45:WL:101:TRP:CE3	45:WL:187:LEU:HD13	2.29	0.67
45:WL:134:GLN:HA	45:WL:165:GLU:O	1.94	0.67
44:WM:34:GLY:O	44:WM:60:LYS:HA	1.95	0.67
44:WM:406:HIS:NE2	45:WN:261:PRO:HD3	2.09	0.67
1:6H:174:MET:N	45:FB:320:ARG:CD	2.53	0.67
13:0T:146:MET:HE3	45:MB:402:GLY:HA2	1.75	0.67
15:0V:74:VAL:HA	45:MN:306:ARG:HD2	1.75	0.67
18:1F:23:THR:OG1	45:HL:245:GLN:NE2	2.27	0.67
9:1H:115:ARG:HH12	45:HL:280:GLN:HA	1.60	0.67
2:2A:128:HIS:CA	45:AJ:361:LEU:HD21	2.18	0.67
31:2H:200:TYR:OH	44:AC:78:VAL:HG22	1.95	0.67
22:2L:782:LYS:HD2	44:BK:225:THR:HG21	1.77	0.67
2:3A:124:LEU:HB3	45:AN:279:GLN:HE22	1.59	0.67
13:3T:125:GLY:O	44:AK:337:THR:HG23	1.95	0.67
34:4F:122:TRP:HZ3	45:IL:43:GLN:HG3	1.58	0.67
34:4F:139:ALA:HB1	44:IK:359:PRO:HG2	1.77	0.67
35:5R:33:LEU:H	44:LG:1:MET:HE3	1.59	0.67
35:5R:96:TYR:HA	35:5R:117:THR:HG22	1.77	0.67
40:6F:82:GLN:NE2	45:JF:358:PRO:O	2.28	0.67
35:6R:413:ILE:CG2	35:6R:417:TYR:CD2	2.66	0.67
43:8R:173:UNK:OH	44:OG:58:ALA:O	2.13	0.67
45:AB:51:TYR:O	45:AB:62:ARG:NH2	2.27	0.67
45:AJ:282:ARG:O	45:MJ:54:ALA:HB1	1.95	0.67
45:AL:371:SER:O	45:AL:422:TYR:OH	2.12	0.67
45:AN:268:ILE:CG2	45:AN:368:VAL:HG22	2.25	0.67
44:BA:318:MET:O	44:BA:375:VAL:HG13	1.95	0.67
45:BD:371:SER:O	45:BD:374:ILE:HG23	1.95	0.67
45:BF:133:PHE:HB2	45:BF:164:MET:HE1	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:269:LEU:H	44:BG:269:LEU:HD23	1.60	0.67
45:BH:271:ALA:HB1	45:BH:272:PRO:HA	1.76	0.67
44:BI:274:PRO:HD2	44:BI:374:ALA:HA	1.76	0.67
45:BJ:64:ILE:HG23	45:BJ:89:ASN:ND2	2.10	0.67
44:BM:174:SER:HB2	44:BM:177:VAL:O	1.95	0.67
44:CA:184:PRO:HB2	44:CA:395:PHE:CB	2.23	0.67
44:CA:420:GLU:HA	44:CA:423:GLU:CG	2.25	0.67
45:CB:164:MET:HB2	45:CB:197:ASP:H	1.60	0.67
45:CB:256:ASN:ND2	45:CB:350:LYS:HD2	2.10	0.67
44:CC:251:ASP:O	44:CC:254:GLU:N	2.28	0.67
45:CF:1:MET:O	45:CF:2:ARG:HG2	1.95	0.67
45:CF:22:GLU:HG2	45:CF:81:PHE:CB	2.25	0.67
45:CF:420:SER:O	45:CF:423:GLN:HG3	1.95	0.67
45:CH:267:MET:HG2	45:CH:299:MET:CE	2.25	0.67
44:CI:258:ASN:HD22	45:CJ:179:VAL:HG22	1.60	0.67
44:CK:324:VAL:CG1	44:CK:325:PRO:HD2	2.25	0.67
44:CM:139:ASN:O	44:CM:170:THR:HA	1.94	0.67
45:CN:138:SER:OG	45:CN:169:VAL:HB	1.95	0.67
45:CN:319:GLY:N	45:CN:354:CYS:O	2.27	0.67
44:DA:6:SER:O	44:DA:66:VAL:HG12	1.95	0.67
44:DE:349:THR:CG2	45:DF:179:VAL:HA	2.24	0.67
45:DF:178:THR:CG2	45:DF:180:VAL:HG12	2.25	0.67
45:DJ:174:LYS:HD2	45:DJ:175:VAL:HG13	1.77	0.67
44:DK:137:VAL:HG12	44:DK:167:LEU:O	1.95	0.67
45:DN:8:GLN:HG3	45:DN:14:ASN:OD1	1.95	0.67
44:EA:304:LYS:HD2	44:EA:304:LYS:O	1.95	0.67
45:EB:316:LEU:HG	45:EB:352:SER:OG	1.95	0.67
45:EF:318:ARG:HD3	45:EF:358:PRO:HG3	1.76	0.67
45:EJ:86:ARG:NH2	45:FJ:278:SER:HA	2.10	0.67
44:EK:326:LYS:HE2	45:EL:218:THR:O	1.95	0.67
44:EM:90:GLU:HG3	44:EM:121:ARG:NH2	2.09	0.67
44:EM:262:TYR:HE1	45:EN:393:ALA:HA	1.60	0.67
45:FD:232:ALA:HB1	45:FD:268:ILE:HD13	1.77	0.67
44:FG:329:ASN:HA	44:FG:332:ILE:HG22	1.75	0.67
45:FL:239:CYS:SG	45:FL:248:SER:N	2.64	0.67
45:GB:224:ASP:O	45:GB:228:LEU:HG	1.94	0.67
44:GC:60:LYS:HD3	44:HC:283:HIS:CD2	2.29	0.67
44:GC:319:TYR:CE2	44:GC:328:VAL:HG22	2.29	0.67
44:GE:224:TYR:CE2	45:GF:246:LEU:HD11	2.28	0.67
44:GE:398:MET:SD	45:GF:345:ILE:HG13	2.35	0.67
45:GF:253:LEU:HD21	45:GF:316:LEU:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:340:THR:HG23	44:GG:341:ILE:HG12	1.76	0.67
44:GK:249:ASN:OD1	44:GK:250:VAL:N	2.28	0.67
45:GN:4:ILE:HA	45:GN:130:LEU:HD11	1.76	0.67
45:HB:135:ILE:N	45:HB:165:GLU:O	2.25	0.67
44:HC:101:ASN:OD1	45:HD:252:LYS:HG3	1.94	0.67
44:HG:308:ARG:NH1	44:HG:340:THR:OG1	2.26	0.67
45:HH:266:PHE:HA	45:HH:370:ASN:OD1	1.94	0.67
45:HH:337:ASN:HB3	45:HH:340:TYR:CD2	2.30	0.67
44:HK:166:LYS:O	44:HK:199:ASP:HB2	1.95	0.67
44:HK:289:ALA:CA	44:HK:292:THR:HG22	2.25	0.67
45:HN:319:GLY:HA2	45:HN:357:PRO:CG	2.25	0.67
44:IA:425:LEU:O	44:IA:428:LEU:N	2.25	0.67
45:IB:309:ARG:NH2	45:IB:342:VAL:HG23	2.10	0.67
44:IE:3:GLU:OE2	44:IE:129:CYS:HB3	1.95	0.67
45:IF:67:ASP:OD1	45:IF:68:LEU:N	2.28	0.67
45:IH:232:ALA:HB1	45:IH:268:ILE:HD12	1.76	0.67
44:II:118:CYS:SG	44:II:153:LEU:HD21	2.34	0.67
45:IJ:86:ARG:NH1	44:JG:283:HIS:HB2	2.10	0.67
44:IK:14:ILE:CD1	44:IK:69:ASP:HB2	2.24	0.67
44:IK:150:GLY:O	44:IK:154:LEU:HG	1.95	0.67
44:IK:328:VAL:CG1	44:IK:353:VAL:HG21	2.25	0.67
44:IM:211:ASP:OD2	44:IM:304:LYS:NZ	2.18	0.67
45:IN:86:ARG:HH21	45:IN:87:PRO:HG2	1.60	0.67
45:JB:107:THR:HG21	45:JB:401:GLU:OE2	1.94	0.67
44:JC:137:VAL:HG22	44:JC:167:LEU:O	1.95	0.67
45:JH:187:LEU:HD11	45:JH:408:PHE:CZ	2.30	0.67
45:JH:383:GLU:O	45:JH:386:THR:HG22	1.95	0.67
45:JJ:232:ALA:HB1	45:JJ:268:ILE:HD12	1.77	0.67
44:JK:273:ALA:HA	44:JK:275:ILE:HD12	1.75	0.67
44:KA:276:ILE:HD11	44:KA:280:LYS:HE3	1.76	0.67
44:KC:150:GLY:O	44:KC:154:LEU:HD23	1.94	0.67
45:KD:3:GLU:CG	45:KD:127:CYS:HB2	2.24	0.67
45:KD:135:ILE:CB	45:KD:166:THR:HG22	2.24	0.67
45:KD:218:THR:HG23	45:KD:219:THR:HG22	1.77	0.67
45:KD:330:MET:HE2	45:KD:349:ILE:HD13	1.77	0.67
44:KE:296:PHE:CD2	44:KE:335:ILE:HG12	2.29	0.67
44:KG:311:LYS:O	44:KG:382:THR:HG22	1.94	0.67
44:KG:317:MET:HE2	44:KG:319:TYR:HE1	1.60	0.67
44:KG:319:TYR:HE2	44:KG:328:VAL:HG12	1.59	0.67
45:KJ:216:LYS:HD2	45:KJ:275:SER:HB3	1.77	0.67
44:KK:30:ILE:CD1	44:KK:36:MET:HG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:138:SER:CB	45:LB:169:VAL:HB	2.25	0.67
45:LB:294:PHE:HE2	45:LB:333:VAL:HG11	1.60	0.67
45:LD:156:ARG:NH1	45:LD:195:ASN:O	2.28	0.67
45:LD:268:ILE:HG13	45:LD:300:MET:HE3	1.76	0.67
45:LF:45:GLU:HG2	45:LF:46:ARG:HD3	1.76	0.67
44:LI:212:ILE:HD13	44:LI:300:ASN:OD1	1.95	0.67
44:LI:263:PRO:HD3	45:LL:396:HIS:CG	2.30	0.67
45:LL:285:THR:HB	45:LL:287:PRO:HD2	1.77	0.67
44:MA:270:SER:O	44:MA:302:MET:HB3	1.95	0.67
45:MB:69:GLU:OE1	45:MB:71:GLY:N	2.18	0.67
44:ME:191:THR:HB	44:ME:393:HIS:CB	2.12	0.67
45:MF:242:PHE:HB3	45:MF:356:ILE:HD12	1.76	0.67
44:MK:69:ASP:OD1	44:MK:70:LEU:N	2.28	0.67
45:ML:68:LEU:HD21	45:ML:147:MET:CE	2.22	0.67
45:NB:178:THR:HB	45:NB:181:GLU:CG	2.24	0.67
45:NB:207:LEU:HD23	45:NB:225:LEU:HA	1.77	0.67
45:ND:234:SER:OG	45:ND:241:ARG:NH2	2.28	0.67
45:ND:271:ALA:HB1	45:ND:272:PRO:HA	1.76	0.67
45:ND:341:PHE:HB3	45:ND:348:ASN:ND2	2.07	0.67
44:NE:329:ASN:CB	45:NH:175:VAL:HG11	2.18	0.67
45:NH:216:LYS:HE3	45:NH:275:SER:HB3	1.75	0.67
45:NL:97:ALA:HB3	45:NL:143:THR:HG22	1.76	0.67
44:NM:319:TYR:HE1	44:NM:375:VAL:HG23	1.58	0.67
44:OA:174:SER:OG	44:OA:206:ASN:OD1	2.11	0.67
45:OB:68:LEU:CB	45:OB:96:GLY:HA2	2.25	0.67
44:OE:203:MET:CE	44:OE:205:ASP:HB3	2.24	0.67
45:OF:405:GLU:OE2	45:OF:409:THR:OG1	2.12	0.67
45:OH:267:MET:CE	45:OH:301:CYS:HB2	2.25	0.67
45:OH:410:GLU:HA	45:OH:413:SER:OG	1.95	0.67
45:OJ:269:GLY:HA2	45:OJ:300:MET:HE1	1.76	0.67
44:OK:14:ILE:HD11	44:OK:69:ASP:HB2	1.76	0.67
45:OL:46:ARG:HB3	45:OL:49:VAL:HG13	1.77	0.67
45:OL:316:LEU:HD23	45:OL:352:SER:HB2	1.77	0.67
45:ON:163:ILE:HG13	45:ON:251:ARG:HE	1.59	0.67
44:PA:11:GLN:HG3	44:PA:74:VAL:CG1	2.25	0.67
44:PA:188:ILE:HD13	44:PA:395:PHE:CD2	2.30	0.67
44:PC:259:LEU:HD21	44:PC:316:SER:HB2	1.77	0.67
44:PC:286:LEU:CD1	44:PC:291:ILE:HD11	2.25	0.67
44:PC:363:VAL:HG23	44:PC:364:PRO:HD2	1.75	0.67
45:PF:20:PHE:CG	45:PF:25:SER:HB3	2.30	0.67
45:PF:99:ASN:HA	45:PF:142:GLY:CA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:141:VAL:HG11	44:PG:172:TYR:CD1	2.30	0.67
44:PK:268:MET:HG3	44:PK:378:ILE:HG22	1.77	0.67
45:QB:329:GLN:O	45:QB:333:VAL:HG23	1.95	0.67
45:QD:130:LEU:HB3	45:QD:162:ARG:CD	2.25	0.67
45:QD:207:LEU:HG	45:QD:300:MET:HE3	1.75	0.67
44:QM:350:GLY:HA2	45:QN:179:VAL:CG1	2.25	0.67
45:QN:212:PHE:CZ	45:QN:220:PRO:HG2	2.30	0.67
45:RB:66:MET:HE1	45:RB:91:VAL:HG13	1.77	0.67
45:RB:246:LEU:HD23	46:RC:501:GTP:O1A	1.95	0.67
44:RE:172:TYR:HB3	44:RE:173:PRO:HD2	1.76	0.67
45:RF:3:GLU:C	45:RF:131:GLN:HG2	2.16	0.67
45:RH:238:CYS:SG	45:RH:318:ARG:NE	2.68	0.67
44:RI:145:THR:HG22	46:RI:501:GTP:O3B	1.95	0.67
44:RK:54:SER:HB3	44:RK:64:ARG:HH11	1.60	0.67
44:SA:88:HIS:HB3	44:SA:91:GLN:HG2	1.76	0.67
45:SB:193:VAL:HA	45:SB:264:HIS:HE1	1.59	0.67
45:SB:270:PHE:CZ	45:SB:364:ALA:HB1	2.30	0.67
44:SC:81:GLY:O	44:SC:84:ARG:NH1	2.25	0.67
44:SC:311:LYS:HA	44:SC:342:GLN:O	1.94	0.67
45:SD:396:HIS:HA	45:SD:399:THR:OG1	1.95	0.67
45:SJ:172:SER:OG	45:SJ:175:VAL:HG22	1.95	0.67
44:SM:13:GLY:O	44:SM:17:GLY:N	2.18	0.67
45:SN:36:TYR:CE1	45:SN:44:LEU:HG	2.30	0.67
44:TA:242:LEU:HD11	44:TA:252:ILE:CD1	2.24	0.67
45:TB:164:MET:O	45:TB:197:ASP:HB2	1.95	0.67
45:TD:225:LEU:HB2	48:TD:501:GDP:HN21	1.60	0.67
44:TE:353:VAL:HG22	45:TF:177:ASP:HA	1.75	0.67
45:TF:127:CYS:SG	45:TF:130:LEU:HB2	2.35	0.67
45:TF:200:MET:HE3	45:TF:268:ILE:CG1	2.24	0.67
45:TH:319:GLY:CA	45:TH:357:PRO:HB3	2.22	0.67
44:TK:387:VAL:HG12	44:TK:390:ARG:HH11	1.59	0.67
45:TL:167:PHE:CE2	45:TL:233:MET:HG2	2.30	0.67
44:TM:315:CYS:O	44:TM:351:PHE:HA	1.95	0.67
45:TN:135:ILE:N	45:TN:165:GLU:O	2.24	0.67
45:TN:257:LEU:O	45:TN:312:THR:HG21	1.94	0.67
45:UB:138:SER:O	45:UB:145:SER:HB3	1.94	0.67
44:UE:155:GLU:HA	44:UE:197:HIS:NE2	2.09	0.67
45:UH:193:VAL:HG21	45:UH:418:LEU:HD22	1.77	0.67
45:UH:211:CYS:SG	45:UH:217:LEU:HD21	2.34	0.67
45:UJ:206:ALA:O	45:UJ:209:ASP:N	2.26	0.67
45:UJ:296:ALA:HA	45:UJ:299:MET:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:141:VAL:HG12	44:UK:171:ILE:O	1.94	0.67
44:UM:205:ASP:OD1	44:UM:303:ALA:HA	1.95	0.67
44:VC:107:HIS:NE2	44:VC:152:LEU:HB2	2.10	0.67
45:VF:21:TRP:CZ3	45:VF:61:PRO:HB3	2.30	0.67
45:VH:86:ARG:HH2	45:WH:281:TYR:HB2	1.59	0.67
44:VK:141:VAL:CG2	44:VK:187:SER:HA	2.23	0.67
44:VK:224:TYR:CZ	45:VL:323:THR:HG21	2.28	0.67
44:VK:278:ALA:CA	44:VK:369:ALA:HB2	2.25	0.67
45:VL:178:THR:HG21	45:VL:180:VAL:HG12	1.77	0.67
45:VN:316:LEU:HB2	45:VN:366:THR:HB	1.76	0.67
44:WA:69:ASP:OD2	44:WA:74:VAL:HG21	1.94	0.67
44:WA:386:GLU:O	44:WA:390:ARG:HG2	1.95	0.67
45:WD:309:ARG:NH2	45:WD:426:GLN:O	2.27	0.67
44:WE:11:GLN:HE22	45:WF:247:ASN:H	1.42	0.67
44:WE:289:ALA:O	44:WE:293:ASN:N	2.27	0.67
44:WG:25:CYS:SG	44:WG:30:ILE:HD11	2.35	0.67
45:WH:113:ILE:HD12	45:WH:150:LEU:HD22	1.77	0.67
45:WH:187:LEU:HD11	45:WH:408:PHE:CE1	2.29	0.67
45:WH:404:ASP:OD1	45:WH:407:GLU:HG3	1.96	0.67
44:WI:276:ILE:HG12	44:WI:281:ALA:HB2	1.76	0.67
44:WI:318:MET:O	44:WI:375:VAL:HG23	1.95	0.67
44:WI:394:LYS:HG2	45:WJ:346:PRO:HG3	1.75	0.67
45:WJ:3:GLU:OE2	45:WJ:127:CYS:HB2	1.94	0.67
45:WJ:173:PRO:CG	45:WJ:380:ARG:HD3	2.24	0.67
44:WM:84:ARG:HG3	44:WM:85:GLN:OE1	1.95	0.67
44:WM:289:ALA:O	44:WM:292:THR:HG22	1.95	0.67
8:0G:114:LYS:NZ	44:JM:367:ASP:OD1	2.28	0.66
12:0S:12:VAL:HG13	45:WB:94:GLN:NE2	2.09	0.66
18:1F:141:ASP:OD1	44:GI:46:ASP:N	2.28	0.66
22:1L:752:LEU:CD1	45:BD:320:ARG:HD2	2.25	0.66
25:1P:287:ARG:NH1	44:TE:367:ASP:HA	2.10	0.66
2:2A:129:PRO:HD2	45:AJ:361:LEU:HD23	1.75	0.66
30:2G:29:ARG:HB3	44:JG:1:MET:CE	2.25	0.66
22:2L:494:GLU:OE2	35:6R:218:ILE:HG21	1.68	0.66
16:4X:121:LYS:HE2	45:LH:362:LYS:NZ	2.09	0.66
37:5C:122:ASN:CB	45:NL:19:LYS:HD3	2.25	0.66
37:5D:35:PHE:HE2	44:KK:435:VAL:H	1.43	0.66
39:5K:30:LYS:HB3	39:5K:34:LYS:NZ	2.10	0.66
35:5R:149:GLN:HB3	35:5R:159:TYR:CE1	2.29	0.66
35:6R:318:TYR:OH	45:CN:273:LEU:HA	1.95	0.66
35:7R:174:PHE:O	35:7R:175:GLU:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:36:MET:HB2	44:AA:61:HIS:HE1	1.61	0.66
45:AB:12:CYS:SG	45:AB:138:SER:HB2	2.36	0.66
45:AB:276:ARG:HD3	45:AB:279:GLN:OE1	1.94	0.66
45:AF:9:GLY:HA2	45:AF:66:MET:O	1.95	0.66
44:AG:143:GLY:HA3	46:AG:501:GTP:O2B	1.96	0.66
45:AH:222:TYR:O	45:AH:226:ASN:ND2	2.23	0.66
45:AL:86:ARG:HA	45:BL:281:TYR:CD2	2.30	0.66
45:AL:274:THR:HG21	45:AL:279:GLN:HA	1.77	0.66
45:AN:193:VAL:HA	45:AN:264:HIS:CE1	2.30	0.66
44:BC:89:PRO:HB2	44:CC:280:LYS:CG	2.25	0.66
45:BD:3:GLU:HG3	45:BD:62:ARG:NH1	2.11	0.66
45:BF:211:CYS:HB3	45:BF:217:LEU:HD11	1.77	0.66
44:BI:336:LYS:HD3	44:BI:351:PHE:CE2	2.29	0.66
45:BL:117:LEU:HD21	45:BL:158:GLU:OE2	1.94	0.66
44:CA:20:CYS:HA	44:CA:232:ALA:HB1	1.77	0.66
45:CB:423:GLN:OE1	45:CB:426:GLN:HB3	1.96	0.66
44:CI:60:LYS:NZ	44:CI:85:GLN:O	2.27	0.66
45:CJ:7:ILE:HD11	45:CJ:120:VAL:CG2	2.24	0.66
45:CJ:254:ALA:HB1	44:CK:407:TRP:HH2	1.59	0.66
44:CK:218:ASP:O	44:CK:219:ILE:HD13	1.94	0.66
44:CK:291:ILE:HG13	44:CK:292:THR:N	2.10	0.66
44:CM:257:THR:HA	45:CN:397:TRP:CE2	2.30	0.66
45:CN:61:PRO:HD2	45:CN:84:LEU:O	1.96	0.66
45:CN:318:ARG:HA	45:CN:354:CYS:SG	2.35	0.66
45:CN:341:PHE:CZ	45:CN:349:ILE:HD11	2.30	0.66
45:DD:141:GLY:HA3	48:DD:501:GDP:PB	2.35	0.66
44:DE:144:GLY:O	44:DE:147:SER:N	2.26	0.66
45:DF:139:LEU:HB2	45:DF:170:VAL:HG22	1.76	0.66
44:DG:241:SER:OG	44:DG:250:VAL:O	2.06	0.66
45:DH:42:LEU:HG	45:DH:45:GLU:OE2	1.95	0.66
45:DH:60:VAL:HG23	45:DH:84:LEU:O	1.96	0.66
44:DM:289:ALA:O	44:DM:292:THR:HG22	1.95	0.66
44:DM:408:TYR:HB3	44:DM:413:MET:CE	2.25	0.66
45:DN:164:MET:O	45:DN:197:ASP:HB2	1.94	0.66
45:ED:60:VAL:HG11	45:ED:86:ARG:CZ	2.25	0.66
45:ED:138:SER:HA	45:ED:169:VAL:HG22	1.75	0.66
44:EE:36:MET:HB2	44:EE:37:PRO:CD	2.24	0.66
44:EE:216:ASN:HB3	44:EE:275:ILE:O	1.95	0.66
44:EE:219:ILE:HG22	44:EE:222:PRO:HD3	1.77	0.66
45:EF:317:PHE:CE2	45:EF:326:VAL:HG13	2.30	0.66
45:EH:110:ALA:O	45:EH:113:ILE:HG22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:322:SER:HB3	44:EI:221:ARG:NH2	2.09	0.66
44:EK:392:ASP:OD2	44:EK:422:ARG:NH2	2.28	0.66
45:EL:183:TYR:CZ	45:EL:388:MET:HE3	2.31	0.66
45:EN:65:LEU:HB2	45:EN:90:PHE:CE1	2.29	0.66
45:EN:168:SER:N	45:EN:200:MET:O	2.24	0.66
44:FA:91:GLN:HG2	44:FA:121:ARG:NE	2.08	0.66
45:FB:186:THR:HG22	45:FB:411:ALA:HB1	1.75	0.66
44:FC:277:SER:C	44:FC:369:ALA:HB2	2.15	0.66
45:FF:133:PHE:HD2	45:FF:155:VAL:HG11	1.59	0.66
44:FG:242:LEU:HD11	44:FG:252:ILE:HG13	1.75	0.66
44:FG:377:MET:HE2	44:FG:379:SER:HB3	1.77	0.66
44:FK:174:SER:HB2	44:FK:177:VAL:O	1.95	0.66
45:FL:242:PHE:HD2	45:FL:356:ILE:HB	1.61	0.66
45:FL:316:LEU:HA	45:FL:352:SER:HB2	1.77	0.66
44:FM:119:LEU:HA	44:FM:122:ILE:HD11	1.75	0.66
44:GA:338:LYS:HB2	44:GA:341:ILE:HG22	1.77	0.66
44:GC:60:LYS:HD2	44:GC:85:GLN:NE2	2.10	0.66
44:GC:178:SER:HB2	44:GC:183:GLU:CD	2.16	0.66
45:GD:164:MET:O	45:GD:198:GLU:HB2	1.96	0.66
45:GD:208:TYR:CE1	45:GD:225:LEU:HD11	2.30	0.66
44:GE:315:CYS:SG	44:GE:379:SER:HB3	2.35	0.66
44:GE:372:MET:C	44:GE:373:ARG:HD3	2.15	0.66
45:GF:113:ILE:HG13	45:GF:116:VAL:HG11	1.76	0.66
44:GG:100:ALA:O	45:GH:255:VAL:HG21	1.94	0.66
45:GH:162:ARG:HA	45:GH:162:ARG:NE	2.10	0.66
45:GJ:20:PHE:CD1	45:GJ:233:MET:HG2	2.29	0.66
45:GJ:52:ASN:ND2	45:GJ:123:GLU:OE2	2.25	0.66
44:GK:206:ASN:HA	44:GK:209:ILE:HD12	1.78	0.66
45:HH:12:CYS:SG	45:HH:13:GLY:N	2.68	0.66
45:HH:178:THR:CG2	45:HH:180:VAL:HG12	2.25	0.66
44:HI:223:THR:HG22	44:HI:226:ASN:OD1	1.96	0.66
45:HJ:406:MET:O	45:HJ:410:GLU:HG3	1.95	0.66
44:HK:19:ALA:HB2	44:HK:228:ASN:HB3	1.77	0.66
44:HK:289:ALA:HA	44:HK:292:THR:CG2	2.24	0.66
45:HL:200:MET:HE3	45:HL:268:ILE:HG21	1.77	0.66
44:HM:202:VAL:HA	44:HM:268:MET:O	1.94	0.66
45:HN:86:ARG:HH21	45:HN:87:PRO:CG	2.08	0.66
44:IA:313:MET:HG3	44:IA:346:TRP:HH2	1.60	0.66
45:IB:52:ASN:HB2	45:IB:60:VAL:CG1	2.25	0.66
45:IB:210:ILE:HG12	45:IB:297:LYS:O	1.96	0.66
45:IF:167:PHE:HE1	45:IF:200:MET:HG3	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:423:GLN:NE2	45:IJ:427:ASP:OD2	2.28	0.66
44:IM:288:VAL:HG23	44:IM:291:ILE:HD11	1.77	0.66
45:IN:292:GLN:O	45:IN:298:ASN:HB2	1.95	0.66
44:JC:175:PRO:HB2	44:JC:176:GLN:OE1	1.95	0.66
45:JF:30:ILE:HG13	45:JF:51:TYR:HE2	1.58	0.66
45:JF:379:LYS:HZ2	45:JF:419:VAL:HG13	1.59	0.66
44:JG:372:MET:CG	44:JG:373:ARG:HH11	2.08	0.66
45:JH:210:ILE:O	45:JH:214:THR:HG22	1.95	0.66
45:JL:161:ASP:OD2	45:JL:162:ARG:NH1	2.28	0.66
45:JN:3:GLU:HG3	45:JN:62:ARG:HH12	1.59	0.66
44:KA:216:ASN:ND2	44:KA:275:ILE:HB	2.10	0.66
45:KB:420:SER:O	45:KB:423:GLN:HG2	1.95	0.66
45:KD:31:ASP:OD1	45:KD:35:THR:N	2.27	0.66
45:KD:211:CYS:SG	45:KD:215:LEU:HD12	2.35	0.66
45:KF:152:ILE:HG12	45:KF:164:MET:CE	2.25	0.66
44:KG:320:ARG:HH21	44:KG:360:PRO:HA	1.60	0.66
44:KM:222:PRO:CB	44:KM:226:ASN:HD21	2.06	0.66
44:KM:346:TRP:HZ2	44:KM:435:VAL:HG22	1.61	0.66
45:KN:186:THR:O	45:KN:190:HIS:N	2.27	0.66
45:KN:238:CYS:HB2	45:KN:318:ARG:NH2	2.10	0.66
44:LA:240:ALA:HB1	44:LA:356:ASN:HD22	1.59	0.66
44:LA:292:THR:HG21	44:LA:331:SER:OG	1.95	0.66
44:LC:320:ARG:HD3	44:LC:360:PRO:HD3	1.77	0.66
44:LG:222:PRO:O	45:LH:322:SER:HB2	1.95	0.66
45:LH:286:VAL:HB	45:LH:325:GLU:OE1	1.94	0.66
44:LI:21:TRP:CZ2	44:LI:65:ALA:HB2	2.30	0.66
45:LL:240:LEU:O	45:LL:240:LEU:HD23	1.95	0.66
45:LL:304:ASP:OD2	45:LL:306:ARG:NH1	2.27	0.66
45:MD:166:THR:OG1	45:MD:199:CYS:HA	1.95	0.66
45:MF:114:ASP:OD1	45:MF:115:SER:N	2.29	0.66
44:MI:204:LEU:HG	44:MI:302:MET:SD	2.35	0.66
45:MJ:42:LEU:HD23	45:MJ:45:GLU:OE2	1.95	0.66
45:ML:330:MET:HE2	45:ML:349:ILE:HG21	1.77	0.66
44:MM:192:HIS:ND1	44:MM:424:ASP:OD2	2.27	0.66
44:MM:414:GLU:HB2	44:MM:417:GLU:HG3	1.77	0.66
44:NA:97:GLU:OE1	44:NA:98:ASP:N	2.28	0.66
45:NB:242:PHE:CD1	45:NB:356:ILE:HG13	2.30	0.66
45:NB:313:ALA:HB1	45:NB:367:PHE:CE1	2.29	0.66
44:NC:177:VAL:HG22	44:NC:207:GLU:OE2	1.96	0.66
45:NH:154:LYS:O	45:NH:157:GLU:N	2.28	0.66
45:NJ:118:ASP:O	45:NJ:122:LYS:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:315:CYS:O	44:NK:351:PHE:HA	1.96	0.66
45:NL:135:ILE:HG13	45:NL:164:MET:HE3	1.77	0.66
44:NM:205:ASP:OD2	44:NM:304:LYS:N	2.23	0.66
44:OA:271:SER:HA	44:OA:302:MET:HG2	1.76	0.66
45:OD:46:ARG:HB3	45:OD:49:VAL:HG23	1.76	0.66
45:OF:207:LEU:HB3	45:OF:225:LEU:HD22	1.77	0.66
45:OH:2:ARG:NH2	45:OH:240:LEU:O	2.26	0.66
45:OH:260:PHE:HB3	45:OH:261:PRO:HD2	1.76	0.66
45:OJ:189:VAL:O	45:OJ:193:VAL:HG12	1.95	0.66
45:ON:19:LYS:HG3	45:ON:226:ASN:HB3	1.76	0.66
45:PB:406:MET:O	45:PB:410:GLU:HG3	1.95	0.66
44:PE:11:GLN:HE22	45:PF:247:ASN:H	1.43	0.66
45:PF:288:GLU:O	45:PF:291:GLN:HG3	1.93	0.66
44:PI:258:ASN:HD22	44:PI:352:LYS:HD3	1.59	0.66
44:PK:13:GLY:O	44:PK:16:VAL:HG12	1.94	0.66
45:QD:156:ARG:NH2	45:QD:160:PRO:O	2.29	0.66
45:QD:382:ALA:O	45:QD:386:THR:HG23	1.94	0.66
45:QF:178:THR:CG2	45:QF:180:VAL:HG12	2.25	0.66
45:QH:42:LEU:HG	45:QH:45:GLU:OE2	1.95	0.66
45:QH:135:ILE:HG13	45:QH:152:ILE:CD1	2.26	0.66
45:QH:221:THR:HG23	45:QH:223:GLY:H	1.59	0.66
45:QJ:165:GLU:OE2	45:QJ:250:LEU:HD22	1.95	0.66
45:QL:177:ASP:HB2	48:QL:501:GDP:O3'	1.95	0.66
45:QL:262:ARG:NH1	45:QL:421:GLU:OE1	2.19	0.66
44:RC:241:SER:O	44:RC:249:ASN:ND2	2.26	0.66
44:RC:304:LYS:HD3	44:RC:304:LYS:O	1.95	0.66
45:RD:318:ARG:HH11	45:RD:358:PRO:HG3	1.61	0.66
44:RE:262:TYR:HB3	44:RE:263:PRO:HD2	1.77	0.66
44:RG:135:PHE:O	44:RG:136:LEU:HD23	1.95	0.66
45:RH:10:GLY:O	45:RH:14:ASN:N	2.28	0.66
45:RH:139:LEU:HA	45:RH:145:SER:HB3	1.77	0.66
45:RH:398:TYR:HB3	45:RH:403:MET:HE1	1.76	0.66
44:RI:77:GLU:OE1	44:RI:80:THR:OG1	2.13	0.66
45:RJ:346:PRO:HD2	44:RK:398:MET:SD	2.34	0.66
45:RN:8:GLN:O	45:RN:66:MET:HG2	1.95	0.66
45:SB:28:HIS:HB2	45:SB:30:ILE:H	1.60	0.66
44:SE:200:VAL:CG2	44:SE:256:GLN:HB3	2.26	0.66
44:SE:254:GLU:HG2	45:SF:98:GLY:HA2	1.76	0.66
44:SE:259:LEU:HD13	44:SE:314:ALA:HB3	1.76	0.66
45:SJ:9:GLY:O	45:SJ:13:GLY:HA3	1.94	0.66
44:SM:268:MET:HB2	44:SM:379:SER:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:135:ILE:HG22	45:SN:137:HIS:HD2	1.59	0.66
45:SN:169:VAL:HG22	45:SN:202:ILE:CB	2.21	0.66
45:TB:21:TRP:CZ2	45:TB:63:ALA:HB2	2.30	0.66
45:TB:183:TYR:OH	45:TB:388:MET:O	2.14	0.66
44:TE:252:ILE:HA	44:TE:255:PHE:CD2	2.29	0.66
45:TF:323:THR:O	45:TF:327:ASP:N	2.27	0.66
44:TI:115:VAL:HG22	44:TI:156:ARG:HD2	1.77	0.66
44:TK:331:SER:O	44:TK:335:ILE:HD12	1.96	0.66
45:TL:40:SER:OG	45:TL:43:GLN:NE2	2.26	0.66
45:TL:173:PRO:HG2	45:TL:380:ARG:HD3	1.76	0.66
45:TL:186:THR:HG23	45:TL:415:MET:SD	2.35	0.66
45:UB:1:MET:HE1	44:UC:96:LYS:HA	1.77	0.66
45:UB:304:ASP:OD1	45:UB:306:ARG:HG2	1.94	0.66
44:UC:114:ILE:CA	44:UC:117:LEU:HD13	2.25	0.66
45:UF:99:ASN:HA	45:UF:142:GLY:H	1.59	0.66
45:UF:107:THR:HG23	45:UF:108:GLU:HG2	1.76	0.66
45:UH:32:PRO:HG3	45:UH:81:PHE:CZ	2.30	0.66
45:UJ:310:TYR:CE1	45:UJ:371:SER:HB2	2.30	0.66
45:UJ:403:MET:HE3	45:UJ:404:ASP:H	1.60	0.66
44:UM:91:GLN:NE2	44:UM:125:LEU:HD21	2.10	0.66
45:UN:253:LEU:HD21	45:UN:316:LEU:HD21	1.78	0.66
45:VB:169:VAL:HA	45:VB:202:ILE:HB	1.77	0.66
45:VH:41:ASP:OD1	45:VH:42:LEU:HD12	1.93	0.66
44:VI:284:GLU:HG3	44:VI:286:LEU:CD2	2.25	0.66
44:VM:173:PRO:CG	44:VM:391:LEU:HD21	2.24	0.66
45:WF:4:ILE:HG22	45:WF:132:GLY:N	2.08	0.66
44:WG:156:ARG:HG3	44:WG:160:ASP:OD2	1.95	0.66
45:WJ:68:LEU:HD23	45:WJ:143:THR:OG1	1.94	0.66
45:WJ:185:ALA:O	45:WJ:189:VAL:HG13	1.94	0.66
44:WK:101:ASN:HA	44:WK:144:GLY:CA	2.26	0.66
44:WK:259:LEU:HD21	44:WK:316:SER:CB	2.25	0.66
44:WM:174:SER:HB2	44:WM:177:VAL:O	1.94	0.66
44:WM:256:GLN:HA	44:WM:260:VAL:HB	1.76	0.66
2:0A:138:TRP:CH2	44:AA:80:THR:HG23	2.30	0.66
7:0F:32:ILE:HB	44:EE:280:LYS:HE3	1.75	0.66
12:0S:109:PRO:O	45:MB:160:PRO:HG3	1.93	0.66
20:1J:200:GLY:HA3	44:IG:372:MET:HE2	1.76	0.66
26:1R:455:ASN:ND2	45:FD:219:THR:O	2.27	0.66
13:1T:122:ARG:NH1	45:AF:383:GLU:OE2	2.28	0.66
37:5D:113:VAL:HG12	44:NM:373:ARG:CG	2.01	0.66
38:5E:126:LEU:O	44:OA:373:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5H:78:LEU:HD21	38:5H:97:ARG:HG2	1.77	0.66
35:5R:212:GLN:HA	35:5R:215:LEU:HD21	1.77	0.66
36:5S:76:ILE:HD11	36:5S:119:LEU:HD21	1.76	0.66
35:6R:344:ASN:HB3	45:CN:33:THR:HG23	1.75	0.66
35:6R:554:LYS:HE2	35:6R:560:ARG:NH2	2.11	0.66
35:7R:311:LYS:HD2	35:7R:329:TYR:CE1	2.29	0.66
42:8N:112:UNK:O	42:8N:116:UNK:N	2.28	0.66
43:8P:338:UNK:O	43:8P:342:UNK:N	2.27	0.66
44:AC:51:THR:HG23	44:AC:52:PHE:CD2	2.25	0.66
44:AC:209:ILE:HG21	44:AC:227:LEU:HD13	1.77	0.66
44:AE:10:GLY:O	44:AE:14:ILE:HG12	1.96	0.66
45:AF:207:LEU:HD11	45:AF:300:MET:HE1	1.75	0.66
45:AF:342:VAL:HG13	45:AF:345:ILE:HG22	1.77	0.66
44:AK:205:ASP:OD1	44:AK:303:ALA:HA	1.95	0.66
45:AL:317:PHE:HB3	45:AL:321:MET:CE	2.25	0.66
44:BC:104:ALA:CB	44:BC:411:GLU:HB2	2.22	0.66
44:BG:275:ILE:O	44:BG:275:ILE:HG23	1.94	0.66
44:BK:145:THR:HG22	46:BK:501:GTP:O3B	1.95	0.66
45:BL:317:PHE:HA	45:BL:365:VAL:HG22	1.75	0.66
44:BM:287:SER:O	44:BM:291:ILE:HG23	1.94	0.66
45:BN:241:ARG:HG2	45:BN:242:PHE:HD2	1.59	0.66
44:CA:111:GLY:O	44:CA:115:VAL:N	2.29	0.66
44:CA:315:CYS:HB3	44:CA:351:PHE:HA	1.75	0.66
44:CC:217:LEU:O	44:CC:277:SER:OG	2.10	0.66
45:CD:60:VAL:HG23	45:CD:86:ARG:HD2	1.77	0.66
45:CH:143:THR:HG22	48:CH:501:GDP:O2B	1.94	0.66
45:CH:306:ARG:NH1	45:CH:306:ARG:HB2	2.10	0.66
44:CI:358:GLN:NE2	44:CI:359:PRO:HD2	2.10	0.66
45:CN:36:TYR:OH	45:CN:59:TYR:N	2.29	0.66
45:CN:232:ALA:O	45:CN:236:VAL:HG23	1.96	0.66
44:DC:172:TYR:HB3	44:DC:173:PRO:CD	2.24	0.66
45:DD:97:ALA:HB2	45:DD:143:THR:HB	1.76	0.66
45:DH:101:TRP:CZ3	45:DH:187:LEU:HD13	2.29	0.66
45:DJ:417:ASP:O	45:DJ:421:GLU:N	2.21	0.66
44:DK:200:VAL:HA	44:DK:268:MET:HE1	1.76	0.66
45:DL:294:PHE:CE2	45:DL:333:VAL:HG11	2.29	0.66
44:EA:174:SER:HB2	44:EA:177:VAL:O	1.96	0.66
45:EB:2:ARG:NH2	45:EB:240:LEU:HG	2.10	0.66
45:EB:64:ILE:HG12	45:EB:119:VAL:HG22	1.77	0.66
45:EB:130:LEU:HD21	45:EB:133:PHE:CE1	2.30	0.66
45:EF:210:ILE:HG22	45:EF:210:ILE:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:287:SER:N	44:EI:290:GLU:OE2	2.28	0.66
45:EJ:185:ALA:O	45:EJ:188:SER:OG	2.12	0.66
44:EK:51:THR:HG21	44:EK:243:ARG:HG2	1.75	0.66
45:EL:256:ASN:HD21	44:EM:180:ALA:HB1	1.60	0.66
44:FA:203:MET:CE	44:FA:203:MET:HA	2.24	0.66
44:FA:270:SER:HB3	44:FA:378:ILE:HD13	1.76	0.66
44:FC:177:VAL:HG21	45:FD:327:ASP:HB3	1.77	0.66
44:FC:313:MET:HG2	44:FC:380:ASN:O	1.95	0.66
45:FD:87:PRO:HA	45:FD:90:PHE:CD2	2.30	0.66
45:FD:182:PRO:O	45:FD:186:THR:HG22	1.96	0.66
44:FE:66:VAL:HG22	44:FE:68:LEU:CD1	2.26	0.66
44:FG:261:PRO:HA	45:FJ:394:PHE:CE2	2.30	0.66
45:FL:7:ILE:CD1	45:FL:64:ILE:HB	2.24	0.66
44:GA:230:LEU:O	44:GA:234:VAL:N	2.23	0.66
44:GA:387:VAL:O	44:GA:390:ARG:HG2	1.95	0.66
45:GF:342:VAL:HG13	45:GF:345:ILE:HD13	1.78	0.66
44:GK:340:THR:HG23	44:GK:341:ILE:HG13	1.77	0.66
44:GK:422:ARG:O	44:GK:425:LEU:HB2	1.94	0.66
45:GL:189:VAL:HG11	45:GL:415:MET:HE1	1.75	0.66
45:GL:299:MET:HE1	45:GL:305:PRO:HB3	1.77	0.66
44:GM:66:VAL:HG22	44:GM:68:LEU:CD1	2.25	0.66
44:HA:53:PHE:HE2	44:HA:63:PRO:HG3	1.60	0.66
45:HH:198:GLU:HG2	45:HH:266:PHE:CE2	2.30	0.66
45:HJ:170:VAL:CG2	45:HJ:171:PRO:HD2	2.25	0.66
45:HL:172:SER:OG	45:HL:205:GLU:HB2	1.95	0.66
44:HM:3:GLU:OE2	44:HM:129:CYS:HB3	1.94	0.66
44:HM:239:THR:HA	44:HM:242:LEU:CD2	2.21	0.66
44:IA:13:GLY:CA	44:IA:16:VAL:HG12	2.25	0.66
44:IA:22:GLU:HG3	44:IA:83:TYR:OH	1.95	0.66
45:IB:309:ARG:O	45:IB:372:THR:OG1	2.12	0.66
45:IB:329:GLN:O	45:IB:333:VAL:HG12	1.95	0.66
44:IC:326:LYS:HA	44:IC:329:ASN:HB2	1.77	0.66
45:ID:268:ILE:HG13	45:ID:300:MET:HE2	1.77	0.66
44:IE:60:LYS:NZ	44:IE:85:GLN:O	2.23	0.66
45:IF:178:THR:O	45:IF:181:GLU:HG3	1.95	0.66
44:IG:195:LEU:HD21	44:IG:264:ARG:NH2	2.10	0.66
45:IJ:222:TYR:O	45:IJ:226:ASN:ND2	2.21	0.66
45:IJ:289:LEU:HD12	45:IJ:363:MET:HE3	1.77	0.66
45:IN:314:SER:CB	45:IN:350:LYS:HB3	2.25	0.66
44:JA:115:VAL:HG22	44:JA:119:LEU:HD23	1.77	0.66
45:JD:101:TRP:HZ3	45:JD:187:LEU:HB3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:73:MET:O	45:JF:76:VAL:HG12	1.96	0.66
45:JH:105:HIS:CE1	45:JH:150:LEU:HD13	2.29	0.66
45:JJ:62:ARG:HG3	45:JJ:62:ARG:O	1.96	0.66
45:JJ:143:THR:N	48:JJ:501:GDP:O1B	2.28	0.66
45:JL:170:VAL:HG22	45:JL:171:PRO:HD2	1.75	0.66
44:JM:96:LYS:HD3	45:JN:129:CYS:SG	2.35	0.66
44:JM:306:ASP:HB3	44:JM:309:HIS:CD2	2.29	0.66
44:KG:88:HIS:HB3	44:KG:91:GLN:HG2	1.75	0.66
44:KG:90:GLU:HG3	44:KG:121:ARG:HH12	1.59	0.66
45:KH:201:VAL:HG11	45:KH:377:MET:CE	2.25	0.66
44:KI:261:PRO:HG2	44:KI:313:MET:SD	2.35	0.66
44:KK:406:HIS:HA	44:KK:409:VAL:HG12	1.77	0.66
45:KN:21:TRP:CZ3	45:KN:61:PRO:HB3	2.31	0.66
45:KN:156:ARG:HD3	45:KN:164:MET:CE	2.25	0.66
45:KN:201:VAL:HG23	45:KN:301:CYS:SG	2.34	0.66
45:KN:246:LEU:HD13	45:KN:353:ILE:HD13	1.77	0.66
44:LA:72:PRO:O	44:LA:76:ASP:N	2.17	0.66
44:LA:145:THR:O	44:LA:149:LEU:N	2.27	0.66
45:LB:1:MET:O	45:LB:2:ARG:HG2	1.94	0.66
44:LG:237:SER:OG	44:LG:320:ARG:NH1	2.20	0.66
45:LH:317:PHE:HB2	45:LH:321:MET:CE	2.25	0.66
45:LJ:139:LEU:HA	45:LJ:145:SER:CB	2.24	0.66
44:MA:259:LEU:HD11	44:MA:316:SER:OG	1.94	0.66
45:MF:309:ARG:NH2	45:MF:426:GLN:O	2.29	0.66
44:MG:68:LEU:HD21	44:MG:118:CYS:SG	2.35	0.66
44:MK:98:ASP:OD1	44:MK:99:ALA:N	2.27	0.66
45:ML:296:ALA:HB2	45:ML:306:ARG:NH1	2.09	0.66
44:NE:395:PHE:CD2	44:NE:422:ARG:HD3	2.31	0.66
45:NF:67:ASP:OD1	45:NF:68:LEU:N	2.28	0.66
45:NH:68:LEU:HD21	45:NH:147:MET:SD	2.35	0.66
44:NI:311:LYS:HD2	44:NI:344:VAL:HG22	1.76	0.66
44:NK:174:SER:OG	44:NK:206:ASN:HB2	1.96	0.66
45:NL:54:ALA:HA	45:OL:283:ALA:HB2	1.76	0.66
45:NL:319:GLY:HA2	45:NL:357:PRO:HG3	1.76	0.66
45:NN:7:ILE:CD1	45:NN:64:ILE:HB	2.25	0.66
44:OA:271:SER:O	44:OA:377:MET:N	2.27	0.66
44:OA:317:MET:O	44:OA:353:VAL:HA	1.95	0.66
45:OB:133:PHE:O	45:OB:164:MET:HA	1.96	0.66
45:OF:265:PHE:CE2	45:OF:418:LEU:HD21	2.30	0.66
44:OG:23:LEU:HD13	44:OG:233:GLN:HE22	1.60	0.66
44:OG:71:GLU:OE1	45:OH:247:ASN:ND2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:88:HIS:HB3	44:OG:91:GLN:OE1	1.96	0.66
45:OH:133:PHE:HB2	45:OH:164:MET:SD	2.35	0.66
44:OI:324:VAL:CG1	45:OL:219:THR:HG23	2.26	0.66
45:OJ:18:ALA:O	45:OJ:19:LYS:HD3	1.95	0.66
45:OJ:45:GLU:OE1	45:OJ:46:ARG:HG2	1.94	0.66
45:OJ:141:GLY:HA3	48:OJ:501:GDP:O3A	1.95	0.66
45:OL:267:MET:HE2	45:OL:299:MET:HG3	1.77	0.66
45:OL:292:GLN:O	45:OL:298:ASN:ND2	2.27	0.66
44:OM:225:THR:O	44:OM:229:ARG:N	2.26	0.66
45:ON:113:ILE:HG12	45:ON:117:LEU:CD1	2.25	0.66
44:PA:229:ARG:O	44:PA:233:GLN:NE2	2.28	0.66
44:PA:320:ARG:HB3	44:PA:356:ASN:HB3	1.76	0.66
44:PC:62:VAL:HG21	44:QC:283:HIS:O	1.95	0.66
44:PC:205:ASP:OD1	44:PC:303:ALA:HA	1.96	0.66
45:PD:376:GLU:HG3	45:PD:380:ARG:HH21	1.59	0.66
44:PG:210:TYR:HE1	44:PG:227:LEU:HD11	1.60	0.66
45:PH:101:TRP:CD2	45:PH:187:LEU:HD13	2.29	0.66
45:PL:344:TRP:HB3	45:PL:430:ALA:HB2	1.77	0.66
44:PM:288:VAL:O	44:PM:291:ILE:HG12	1.95	0.66
45:PN:288:GLU:O	45:PN:291:GLN:HG3	1.96	0.66
45:PN:316:LEU:O	45:PN:365:VAL:HG13	1.95	0.66
44:QA:89:PRO:HD3	44:RA:280:LYS:NZ	2.09	0.66
45:QB:255:VAL:HA	44:QC:407:TRP:CZ3	2.30	0.66
44:QC:223:THR:HG23	44:QC:225:THR:HG23	1.77	0.66
45:QH:121:ARG:NH2	45:QH:158:GLU:OE1	2.28	0.66
45:QH:310:TYR:CD1	45:QH:371:SER:HB2	2.30	0.66
45:QH:343:GLU:OE2	45:QH:430:ALA:N	2.28	0.66
44:QI:141:VAL:HG22	44:QI:187:SER:CA	2.23	0.66
44:QI:257:THR:HA	45:QJ:397:TRP:CE2	2.30	0.66
44:QK:51:THR:HG22	44:QK:52:PHE:CD1	2.30	0.66
44:QK:278:ALA:CA	44:QK:369:ALA:HB2	2.25	0.66
44:QM:101:ASN:HA	44:QM:144:GLY:H	1.60	0.66
45:QN:295:ASP:OD1	45:QN:297:LYS:HG2	1.96	0.66
44:RA:209:ILE:HG21	44:RA:227:LEU:HB3	1.76	0.66
45:RB:52:ASN:OD1	45:RB:62:ARG:NH2	2.28	0.66
45:RB:256:ASN:HB3	44:RC:181:VAL:HG12	1.77	0.66
45:RB:303:ALA:HB1	45:RB:373:ALA:CB	2.24	0.66
45:RB:377:MET:O	45:RB:381:VAL:HG23	1.94	0.66
45:RH:113:ILE:CA	45:RH:116:VAL:HG12	2.23	0.66
44:RI:269:LEU:HD12	44:RI:301:MET:CE	2.25	0.66
45:RJ:403:MET:HE3	45:RJ:403:MET:HA	1.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:289:ALA:O	44:RK:293:ASN:N	2.26	0.66
45:RL:25:SER:CB	45:RL:30:ILE:HB	2.26	0.66
45:RL:130:LEU:HD23	45:RL:162:ARG:HD2	1.77	0.66
45:RN:51:TYR:O	45:RN:62:ARG:NH1	2.28	0.66
44:SA:228:ASN:HA	44:SA:231:ILE:CD1	2.25	0.66
44:SC:115:VAL:O	44:SC:119:LEU:HD23	1.95	0.66
45:SH:233:MET:O	45:SH:236:VAL:HG12	1.95	0.66
44:SI:288:VAL:HA	44:SI:291:ILE:HG12	1.75	0.66
45:SL:318:ARG:NH1	45:SL:358:PRO:HG3	2.10	0.66
44:SM:88:HIS:CG	44:SM:89:PRO:HD2	2.28	0.66
45:TD:287:PRO:HA	45:TD:329:GLN:NE2	2.10	0.66
44:TE:220:GLU:HB2	44:TE:221:ARG:HH12	1.61	0.66
45:TH:167:PHE:CE2	45:TH:233:MET:HG2	2.29	0.66
45:TH:222:TYR:CD1	45:TH:225:LEU:HD12	2.29	0.66
45:TL:132:GLY:HA3	45:TL:163:ILE:CG1	2.24	0.66
45:TL:372:THR:HA	45:TL:422:TYR:HE2	1.59	0.66
45:TN:3:GLU:HB2	45:TN:49:VAL:O	1.95	0.66
44:UA:208:ALA:HB2	44:UA:304:LYS:HE3	1.77	0.66
45:UB:135:ILE:HG12	45:UB:152:ILE:CD1	2.25	0.66
45:UB:200:MET:HA	45:UB:266:PHE:O	1.96	0.66
44:UE:67:PHE:HB2	44:UE:92:LEU:HG	1.75	0.66
44:UE:276:ILE:CD1	44:UE:281:ALA:HA	2.25	0.66
45:UF:19:LYS:HE3	45:UF:226:ASN:HB3	1.77	0.66
44:UG:195:LEU:HD12	44:UG:266:HIS:HE1	1.59	0.66
45:UH:112:LEU:O	45:UH:115:SER:OG	2.10	0.66
44:UI:252:ILE:HA	44:UI:255:PHE:CE2	2.30	0.66
45:UJ:54:ALA:CA	45:VJ:283:ALA:HB2	2.23	0.66
45:UJ:201:VAL:HG23	45:UJ:301:CYS:SG	2.36	0.66
44:UM:89:PRO:HG3	44:VK:280:LYS:CE	2.25	0.66
45:UN:270:PHE:HD2	45:UN:273:LEU:HD21	1.59	0.66
45:VB:375:GLN:HB2	45:VB:419:VAL:HG13	1.77	0.66
44:VC:433:GLU:O	44:VC:437:ILE:HG23	1.95	0.66
44:VG:268:MET:HB3	44:VG:380:ASN:HB2	1.77	0.66
45:VH:61:PRO:HD2	45:VH:84:LEU:O	1.95	0.66
45:VJ:3:GLU:HG3	45:VJ:127:CYS:HB2	1.76	0.66
45:VJ:165:GLU:OE2	45:VJ:250:LEU:HD22	1.94	0.66
45:VJ:341:PHE:HD1	45:VJ:348:ASN:HD21	1.43	0.66
45:VL:169:VAL:HA	45:VL:202:ILE:O	1.95	0.66
45:VN:199:CYS:HB3	45:VN:265:PHE:CE1	2.30	0.66
45:WB:178:THR:HG22	45:WB:180:VAL:H	1.60	0.66
44:WC:188:ILE:CD1	44:WC:391:LEU:HG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:324:VAL:HG11	44:WE:326:LYS:HE3	1.77	0.66
45:WF:105:HIS:CD2	45:WF:150:LEU:HB2	2.30	0.66
44:WG:12:GLY:O	44:WG:16:VAL:HG22	1.95	0.66
45:WH:262:ARG:CG	45:WH:263:LEU:HD12	2.24	0.66
45:WJ:257:LEU:HD11	45:WJ:314:SER:CB	2.25	0.66
44:WM:222:PRO:CD	45:WN:324:LYS:HD3	2.24	0.66
44:WM:224:TYR:HB3	46:WM:501:GTP:O6	1.95	0.66
44:WM:224:TYR:HE2	45:WN:246:LEU:HD11	1.60	0.66
7:0F:209:LYS:HB3	44:FC:279:GLU:HG3	1.77	0.66
9:1H:296:ARG:HD2	44:HC:372:MET:HE2	1.76	0.66
25:1P:226:HIS:CE1	44:TG:279:GLU:HA	2.30	0.66
13:1T:147:PHE:CG	45:MF:106:TYR:HB3	2.29	0.66
17:2B:237:LYS:O	44:JK:84:ARG:NH1	2.28	0.66
15:2V:86:ARG:NH2	45:LF:153:SER:HB2	2.09	0.66
22:3L:163:ARG:HH22	44:BA:75:ILE:HG22	1.60	0.66
38:5F:140:ASN:HB2	45:OH:361:LEU:CD2	2.24	0.66
38:5F:157:ARG:HH12	45:NH:37:HIS:HA	1.60	0.66
39:5J:77:LYS:O	39:5J:81:LEU:HD23	1.96	0.66
40:6F:126:LYS:HG3	40:6F:127:TRP:HD1	1.59	0.66
35:6R:241:PRO:HB2	44:CM:373:ARG:HH12	1.61	0.66
35:7R:103:VAL:HG21	35:7R:106:ASN:ND2	2.07	0.66
35:7R:166:ASN:O	35:7R:169:ILE:HG22	1.95	0.66
44:AC:212:ILE:CD1	44:AC:300:ASN:HA	2.25	0.66
45:AD:187:LEU:HD21	45:AD:408:PHE:CE1	2.28	0.66
45:AH:77:ARG:HD3	45:AH:90:PHE:CE1	2.30	0.66
44:AI:210:TYR:CE2	44:AI:227:LEU:HD11	2.29	0.66
44:AI:297:GLU:OE1	44:AI:299:ALA:HB3	1.96	0.66
45:AJ:259:PRO:HG2	45:AJ:311:LEU:HD13	1.78	0.66
45:AN:105:HIS:HD2	45:AN:150:LEU:HB2	1.61	0.66
45:AN:242:PHE:HB3	45:AN:356:ILE:CG1	2.26	0.66
45:AN:242:PHE:HB3	45:AN:356:ILE:HG13	1.76	0.66
44:BC:239:THR:O	44:BC:239:THR:HG22	1.93	0.66
44:BC:386:GLU:O	44:BC:390:ARG:HG2	1.95	0.66
44:BE:66:VAL:HG11	44:BE:122:ILE:CD1	2.23	0.66
44:BG:434:GLU:O	44:BG:437:ILE:HG12	1.94	0.66
44:BI:174:SER:HB2	44:BI:177:VAL:O	1.95	0.66
44:BK:22:GLU:HG3	44:BK:83:TYR:CE2	2.30	0.66
44:BK:269:LEU:H	44:BK:269:LEU:HD23	1.58	0.66
44:BK:338:LYS:HG3	44:BK:340:THR:HG22	1.78	0.66
44:BK:349:THR:HG1	45:BN:176:SER:HG	1.38	0.66
44:CA:271:SER:HA	44:CA:302:MET:CE	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:99:ASN:HA	45:CB:142:GLY:H	1.61	0.66
45:CD:52:ASN:O	45:CD:60:VAL:HG12	1.96	0.66
45:CD:62:ARG:HG3	45:CD:62:ARG:O	1.95	0.66
44:CG:141:VAL:HG21	44:CG:172:TYR:CE1	2.30	0.66
44:CI:340:THR:HG23	44:CI:341:ILE:HG13	1.77	0.66
45:CJ:105:HIS:CD2	45:CJ:150:LEU:HD21	2.30	0.66
45:CL:371:SER:O	45:CL:374:ILE:HG23	1.95	0.66
44:CM:223:THR:O	44:CM:226:ASN:N	2.26	0.66
44:DG:22:GLU:HG3	44:DG:83:TYR:CE2	2.22	0.66
44:DG:106:GLY:HA2	44:DG:110:ILE:HG13	1.77	0.66
45:DH:105:HIS:CE1	45:DH:150:LEU:HD12	2.30	0.66
44:DI:174:SER:OG	44:DI:207:GLU:HB2	1.95	0.66
44:EA:16:VAL:HG21	44:EA:231:ILE:HG21	1.77	0.66
45:EB:48:ASN:HA	45:EB:51:TYR:O	1.94	0.66
44:EC:430:LYS:O	44:EC:433:GLU:HG2	1.96	0.66
44:EE:268:MET:HB2	44:EE:379:SER:O	1.95	0.66
44:EG:340:THR:O	44:EG:341:ILE:HD13	1.95	0.66
45:EH:405:GLU:OE1	45:EH:405:GLU:N	2.26	0.66
44:EK:33:ASP:HB2	44:EK:35:GLN:HE22	1.59	0.66
45:EN:117:LEU:CA	45:EN:120:VAL:HB	2.24	0.66
44:FA:169:PHE:HB3	44:FA:204:LEU:CD1	2.23	0.66
44:FC:210:TYR:CE1	44:FC:227:LEU:HD11	2.28	0.66
45:FD:403:MET:CE	45:FD:407:GLU:HB2	2.25	0.66
45:FF:22:GLU:HG2	45:FF:81:PHE:HB2	1.76	0.66
44:FG:99:ALA:CB	44:FG:145:THR:HB	2.25	0.66
44:FI:316:SER:HB2	44:FI:352:LYS:HB3	1.77	0.66
44:FK:356:ASN:OD1	44:FK:357:TYR:N	2.27	0.66
45:FN:164:MET:N	45:FN:197:ASP:OD2	2.27	0.66
45:FN:211:CYS:SG	45:FN:220:PRO:HG2	2.34	0.66
45:FN:268:ILE:HA	45:FN:367:PHE:O	1.96	0.66
45:FN:395:LEU:O	45:FN:398:TYR:N	2.28	0.66
44:GA:76:ASP:HB2	45:GB:46:ARG:HH22	1.61	0.66
45:GH:377:MET:HA	45:GH:380:ARG:HG2	1.76	0.66
44:GI:54:SER:HB2	44:GI:64:ARG:NH1	2.10	0.66
44:GI:180:ALA:HA	45:GJ:350:LYS:HD2	1.76	0.66
45:HB:372:THR:O	45:HB:375:GLN:HG2	1.96	0.66
44:HG:141:VAL:CG1	44:HG:187:SER:HA	2.25	0.66
45:HH:178:THR:N	45:HH:181:GLU:OE2	2.27	0.66
44:HK:287:SER:N	44:HK:290:GLU:OE2	2.25	0.66
44:HM:141:VAL:HG21	44:HM:172:TYR:CE1	2.30	0.66
44:HM:409:VAL:HG21	44:HM:415:GLU:OE2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:402:ARG:HB3	44:IA:405:VAL:HG21	1.76	0.66
45:ID:170:VAL:CG2	45:ID:171:PRO:HD2	2.25	0.66
45:ID:253:LEU:O	45:ID:257:LEU:HD13	1.93	0.66
44:IE:89:PRO:HD3	45:JF:281:TYR:HD2	1.60	0.66
44:IE:328:VAL:O	44:IE:332:ILE:HD12	1.96	0.66
44:IE:407:TRP:CZ3	45:IF:255:VAL:HA	2.30	0.66
44:IE:434:GLU:O	44:IE:437:ILE:HG12	1.95	0.66
45:IF:105:HIS:CE1	45:IF:150:LEU:HD12	2.30	0.66
44:II:265:ILE:HG23	44:II:432:TYR:CE1	2.30	0.66
45:IJ:20:PHE:HA	45:IJ:230:SER:HB3	1.77	0.66
44:IK:319:TYR:O	44:IK:356:ASN:N	2.23	0.66
44:JA:174:SER:HB2	44:JA:177:VAL:O	1.95	0.66
45:JF:247:ASN:O	45:JF:252:LYS:NZ	2.29	0.66
45:JJ:83:GLN:O	45:KJ:281:TYR:OH	2.04	0.66
44:JK:264:ARG:HG2	44:JK:428:LEU:HD13	1.77	0.66
44:KA:137:VAL:HG12	44:KA:167:LEU:O	1.95	0.66
45:KB:330:MET:HA	45:KB:333:VAL:HG12	1.77	0.66
44:KC:406:HIS:ND1	45:KD:261:PRO:HD3	2.10	0.66
44:KE:145:THR:HG22	46:KE:501:GTP:PB	2.35	0.66
44:KE:207:GLU:OE2	44:KE:304:LYS:HG2	1.94	0.66
44:KE:268:MET:HB2	44:KE:380:ASN:HA	1.76	0.66
45:KF:317:PHE:HE2	45:KF:326:VAL:HG13	1.59	0.66
44:KG:56:THR:HB	44:KG:60:LYS:NZ	2.09	0.66
45:KH:15:GLN:OE1	45:KH:15:GLN:HA	1.94	0.66
45:KJ:172:SER:HB2	45:KJ:174:LYS:HE2	1.77	0.66
44:KK:141:VAL:CG1	44:KK:172:TYR:HA	2.24	0.66
44:KK:311:LYS:O	44:KK:381:SER:HB2	1.96	0.66
44:KM:12:GLY:O	44:KM:16:VAL:HG12	1.94	0.66
44:KM:102:ASN:HD22	44:KM:105:ARG:HG3	1.60	0.66
44:LA:176:GLN:NE2	44:LA:207:GLU:OE2	2.28	0.66
44:LA:268:MET:HB2	44:LA:379:SER:O	1.95	0.66
44:LA:272:TYR:HE2	44:LA:275:ILE:HD11	1.60	0.66
44:LI:20:CYS:HA	44:LI:232:ALA:HB1	1.76	0.66
44:LI:241:SER:HB3	44:LI:356:ASN:HD21	1.60	0.66
44:LI:398:MET:HG2	45:LJ:345:ILE:HD13	1.78	0.66
44:LK:387:VAL:HG12	44:LK:390:ARG:HH22	1.60	0.66
44:MA:141:VAL:HG12	44:MA:171:ILE:O	1.94	0.66
44:MA:403:ALA:HA	45:MB:260:PHE:HE1	1.59	0.66
45:MB:52:ASN:HB2	45:MB:60:VAL:HG13	1.76	0.66
44:MC:101:ASN:OD1	45:MD:252:LYS:HG3	1.95	0.66
45:MF:360:GLY:O	45:MF:361:LEU:HD23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:195:LEU:HA	44:MG:266:HIS:CE1	2.30	0.66
44:MG:256:GLN:HB3	45:MJ:397:TRP:CZ2	2.30	0.66
44:MK:200:VAL:HG13	44:MK:268:MET:CE	2.25	0.66
45:NB:285:THR:OG1	45:NB:287:PRO:HD2	1.95	0.66
45:NB:299:MET:HG3	45:NB:305:PRO:HG3	1.78	0.66
45:ND:7:ILE:HB	45:ND:135:ILE:CD1	2.25	0.66
45:ND:302:ALA:HB3	45:ND:377:MET:SD	2.36	0.66
44:NG:326:LYS:HA	45:NJ:208:TYR:HE2	1.59	0.66
44:NI:220:GLU:O	44:NI:221:ARG:HD3	1.95	0.66
45:NJ:9:GLY:HA2	45:NJ:66:MET:HG3	1.76	0.66
44:NK:279:GLU:HG3	44:NK:281:ALA:H	1.60	0.66
45:OD:101:TRP:CZ3	45:OD:187:LEU:HD22	2.31	0.66
45:OD:146:GLY:O	45:OD:149:THR:N	2.28	0.66
45:OD:304:ASP:OD2	45:OD:307:HIS:ND1	2.29	0.66
44:OI:73:THR:OG1	45:OJ:247:ASN:OD1	2.12	0.66
45:OJ:3:GLU:HG3	45:OJ:62:ARG:NH1	2.09	0.66
44:OK:221:ARG:NH2	45:OL:324:LYS:HB3	2.09	0.66
44:OM:271:SER:HA	44:OM:302:MET:CE	2.25	0.66
45:ON:36:TYR:CZ	45:ON:44:LEU:HD11	2.30	0.66
45:ON:309:ARG:NH2	45:ON:342:VAL:HA	2.10	0.66
44:PA:141:VAL:CG1	44:PA:172:TYR:HA	2.26	0.66
44:PC:9:VAL:HG21	44:PC:153:LEU:CD1	2.25	0.66
44:PC:22:GLU:OE1	44:PC:22:GLU:HA	1.95	0.66
44:PC:352:LYS:CB	45:PF:179:VAL:HG13	2.24	0.66
44:PE:135:PHE:HB2	44:PE:166:LYS:HG2	1.78	0.66
44:PI:318:MET:C	44:PI:375:VAL:HG23	2.16	0.66
44:PI:340:THR:HG23	44:PI:341:ILE:CD1	2.26	0.66
45:PN:97:ALA:HB2	45:PN:143:THR:HB	1.77	0.66
45:PN:375:GLN:O	45:PN:379:LYS:HG3	1.95	0.66
45:QB:232:ALA:O	45:QB:236:VAL:HG23	1.94	0.66
44:QG:133:GLN:HB3	44:QG:252:ILE:CG2	2.25	0.66
44:QG:175:PRO:HD2	44:QG:207:GLU:OE1	1.95	0.66
44:QG:200:VAL:HG13	44:QG:268:MET:CE	2.25	0.66
45:QH:4:ILE:HD11	45:QH:50:TYR:CZ	2.30	0.66
45:QH:28:HIS:ND1	45:QH:43:GLN:O	2.29	0.66
45:QJ:72:THR:O	45:QJ:75:SER:OG	2.12	0.66
45:QJ:113:ILE:HD12	45:QJ:150:LEU:HD22	1.77	0.66
44:RA:189:LEU:HD11	44:RA:413:MET:HE1	1.76	0.66
44:RC:422:ARG:HH12	44:RC:426:ALA:HB2	1.60	0.66
44:RE:133:GLN:O	44:RE:165:SER:OG	2.14	0.66
44:RE:311:LYS:HE2	44:RE:344:VAL:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:315:CYS:HB3	44:RE:350:GLY:O	1.95	0.66
44:RE:326:LYS:HG2	45:RF:220:PRO:CD	2.25	0.66
45:RF:62:ARG:HG2	45:RF:62:ARG:O	1.95	0.66
45:RH:183:TYR:OH	45:RH:393:ALA:O	2.07	0.66
44:RI:252:ILE:HD13	44:RI:255:PHE:CE2	2.30	0.66
45:RL:322:SER:HB3	44:RM:222:PRO:O	1.95	0.66
45:SD:70:PRO:HG3	45:SD:93:GLY:O	1.94	0.66
44:SG:218:ASP:O	44:SG:220:GLU:N	2.28	0.66
44:SI:75:ILE:CG2	44:SI:92:LEU:HB3	2.25	0.66
44:SI:206:ASN:HA	44:SI:209:ILE:CD1	2.25	0.66
44:SI:298:PRO:HG3	44:SI:308:ARG:CZ	2.24	0.66
44:SK:276:ILE:HD12	44:SK:284:GLU:OE2	1.95	0.66
45:SL:20:PHE:CE1	45:SL:24:ILE:HD11	2.31	0.66
45:SL:320:ARG:CG	45:SL:355:ASP:HB3	2.26	0.66
44:SM:101:ASN:CA	44:SM:144:GLY:HA3	2.25	0.66
44:SM:241:SER:HB2	44:SM:249:ASN:HD22	1.59	0.66
45:SN:130:LEU:HD23	45:SN:162:ARG:HG3	1.77	0.66
44:TC:11:GLN:HA	44:TC:14:ILE:CD1	2.26	0.66
44:TC:184:PRO:O	44:TC:188:ILE:HG12	1.96	0.66
44:TC:435:VAL:O	45:TD:391:ARG:NH2	2.29	0.66
45:TD:287:PRO:HA	45:TD:329:GLN:HE22	1.60	0.66
44:TG:358:GLN:OE1	44:TG:359:PRO:HD2	1.96	0.66
44:UC:175:PRO:HB3	44:UC:390:ARG:NE	2.10	0.66
44:UC:333:ALA:HA	44:UC:336:LYS:HZ3	1.59	0.66
45:UD:117:LEU:HD22	45:UD:154:LYS:HD2	1.76	0.66
45:UD:164:MET:O	45:UD:197:ASP:HB2	1.95	0.66
45:UF:245:GLN:HB3	44:UG:224:TYR:CE2	2.30	0.66
44:UG:224:TYR:O	44:UG:228:ASN:ND2	2.29	0.66
44:UI:205:ASP:OD1	44:UI:303:ALA:HA	1.94	0.66
45:UJ:334:GLN:HA	45:UJ:341:PHE:CE2	2.30	0.66
44:UK:210:TYR:CE1	44:UK:227:LEU:HD11	2.30	0.66
44:UK:324:VAL:CG1	44:UK:326:LYS:HZ2	2.07	0.66
45:UL:244:GLY:HA2	45:UL:355:ASP:OD2	1.94	0.66
45:UL:257:LEU:HB3	45:UL:266:PHE:CZ	2.29	0.66
45:UN:4:ILE:HG23	45:UN:132:GLY:O	1.95	0.66
44:VA:174:SER:OG	44:VA:207:GLU:HB2	1.96	0.66
44:VC:222:PRO:CG	45:VD:324:LYS:HD3	2.26	0.66
44:VE:276:ILE:CD1	44:VE:281:ALA:HA	2.24	0.66
44:VE:284:GLU:HG3	44:VE:286:LEU:CD2	2.25	0.66
44:VG:63:PRO:HG2	44:VG:86:LEU:HG	1.76	0.66
44:VG:230:LEU:HD11	44:VG:275:ILE:HD13	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:86:ARG:HB3	45:VH:89:ASN:CB	2.23	0.66
44:VI:121:ARG:HH12	44:VI:124:LYS:HD2	1.59	0.66
44:VK:24:PHE:O	44:VK:28:HIS:ND1	2.24	0.66
44:VK:39:ASP:HA	44:VK:42:ILE:HD11	1.77	0.66
44:VK:63:PRO:HG3	44:VK:86:LEU:HG	1.77	0.66
45:VL:22:GLU:HG2	45:VL:81:PHE:CD1	2.30	0.66
45:VL:208:TYR:CE1	45:VL:225:LEU:HD11	2.29	0.66
45:VL:294:PHE:HE2	45:VL:333:VAL:HG11	1.59	0.66
44:WA:174:SER:OG	44:WA:206:ASN:OD1	2.11	0.66
45:WB:374:ILE:HD12	45:WB:378:PHE:HE2	1.60	0.66
44:WG:141:VAL:CG2	44:WG:187:SER:HA	2.25	0.66
45:WH:286:VAL:HB	45:WH:287:PRO:CD	2.23	0.66
44:WI:195:LEU:HD21	44:WI:264:ARG:NE	2.10	0.66
45:WL:410:GLU:O	45:WL:413:SER:OG	2.08	0.66
44:WM:136:LEU:HD13	44:WM:169:PHE:HE2	1.61	0.66
3:0B:214:LYS:HA	44:JI:46:ASP:HB3	1.77	0.66
5:0D:167:ILE:CA	44:EC:80:THR:HB	2.25	0.66
7:0F:189:VAL:HG23	44:EE:89:PRO:HB3	1.75	0.66
20:1J:252:GLN:CD	44:II:280:LYS:HD3	2.15	0.66
20:1J:295:GLY:HA3	44:IK:226:ASN:HD21	1.61	0.66
13:1T:146:MET:HE3	45:MF:402:GLY:HA2	1.78	0.66
17:3B:238:TYR:HE2	44:JG:84:ARG:HH21	1.44	0.66
16:3X:78:ASN:ND2	45:MN:279:GLN:HB3	2.10	0.66
38:5E:63:HIS:CD2	45:NB:58:ARG:HD2	2.30	0.66
38:5G:22:LYS:HE3	38:5G:30:PRO:CG	2.26	0.66
39:5I:143:LYS:CE	44:NC:390:ARG:HB3	2.25	0.66
11:5Q:64:ASP:HB2	11:5Q:65:PRO:HD2	1.77	0.66
35:5R:78:ILE:HG23	35:5R:79:PRO:HD2	1.77	0.66
42:8L:430:UNK:O	42:8L:434:UNK:N	2.27	0.66
44:AA:118:CYS:O	44:AA:122:ILE:HG13	1.95	0.66
44:AE:145:THR:HG21	46:AE:501:GTP:O3G	1.96	0.66
44:AG:72:PRO:HG2	45:AH:1:MET:HE3	1.78	0.66
44:AG:89:PRO:HG2	44:BG:280:LYS:CE	2.26	0.66
45:AH:135:ILE:CG1	45:AH:152:ILE:HD11	2.21	0.66
45:AH:139:LEU:HD13	45:AH:168:SER:HB3	1.77	0.66
44:AK:318:MET:SD	44:AK:354:GLY:HA3	2.36	0.66
44:BE:51:THR:HG21	44:BE:243:ARG:HB3	1.76	0.66
45:BF:143:THR:HG22	48:BF:502:GDP:O3B	1.94	0.66
45:BH:124:ALA:O	45:BH:130:LEU:HD21	1.95	0.66
44:BI:21:TRP:HZ2	44:BI:65:ALA:HB2	1.61	0.66
45:BL:328:GLU:O	45:BL:332:ASN:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:272:TYR:CD1	44:BM:376:CYS:HB2	2.29	0.66
44:BM:311:LYS:HD3	44:BM:343:PHE:O	1.95	0.66
45:BN:248:SER:CA	45:BN:252:LYS:HE2	2.23	0.66
45:CD:302:ALA:HB3	45:CD:377:MET:CE	2.26	0.66
44:CE:98:ASP:OD1	44:CE:99:ALA:N	2.27	0.66
44:CE:104:ALA:HB2	44:CE:413:MET:HG2	1.77	0.66
44:CI:363:VAL:CG2	44:CI:364:PRO:HD2	2.25	0.66
45:CL:169:VAL:HA	45:CL:202:ILE:O	1.95	0.66
44:CM:107:HIS:CE1	44:CM:152:LEU:HD13	2.31	0.66
44:CM:135:PHE:O	44:CM:167:LEU:N	2.28	0.66
44:DC:6:SER:HB2	44:DC:8:HIS:HE1	1.60	0.66
45:DD:100:ASN:HD21	45:DD:102:ALA:HB3	1.60	0.66
45:DF:206:ALA:O	45:DF:210:ILE:N	2.20	0.66
45:DH:185:ALA:O	45:DH:188:SER:OG	2.06	0.66
44:DI:32:PRO:HB3	44:DI:83:TYR:HE1	1.61	0.66
45:DJ:310:TYR:CD1	45:DJ:371:SER:HB2	2.31	0.66
44:DK:276:ILE:CD1	44:DK:281:ALA:HA	2.26	0.66
45:EB:178:THR:HG21	45:EB:180:VAL:HG12	1.78	0.66
44:EE:328:VAL:HG21	44:EE:355:ILE:HD11	1.77	0.66
44:EG:209:ILE:CG2	44:EG:227:LEU:HD22	2.25	0.66
45:EH:170:VAL:CG2	45:EH:171:PRO:HD2	2.25	0.66
45:EJ:314:SER:CB	45:EJ:350:LYS:HB3	2.26	0.66
44:EK:188:ILE:HD12	44:EK:425:LEU:CD1	2.26	0.66
44:EK:254:GLU:CG	45:EL:98:GLY:HA2	2.25	0.66
44:EM:349:THR:CG2	45:EN:179:VAL:HA	2.24	0.66
45:EN:328:GLU:O	45:EN:331:LEU:HB3	1.95	0.66
44:FA:98:ASP:OD1	44:FA:99:ALA:N	2.28	0.66
44:FA:145:THR:HG22	46:FA:501:GTP:O3B	1.95	0.66
44:FA:175:PRO:HB3	44:FA:390:ARG:CD	2.26	0.66
44:FA:269:LEU:CD1	44:FA:303:ALA:HB3	2.25	0.66
45:FB:212:PHE:O	45:FB:216:LYS:HA	1.95	0.66
44:FC:288:VAL:HG11	44:FC:327:ASP:CG	2.15	0.66
44:FE:71:GLU:OE2	44:FE:73:THR:OG1	2.12	0.66
44:FK:19:ALA:HA	44:FK:22:GLU:OE1	1.96	0.66
44:FK:221:ARG:CZ	45:FL:325:GLU:HB3	2.25	0.66
45:FL:143:THR:CA	45:FL:147:MET:HE2	2.20	0.66
45:FN:16:ILE:HG23	45:FN:229:VAL:HG11	1.77	0.66
45:GB:134:GLN:HA	45:GB:165:GLU:O	1.93	0.66
44:GC:188:ILE:HG13	44:GC:395:PHE:CD1	2.29	0.66
45:GD:32:PRO:HG3	45:GD:81:PHE:CE2	2.30	0.66
45:GD:200:MET:HE3	45:GD:368:VAL:CG1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:215:LEU:HA	45:GF:275:SER:HA	1.77	0.66
45:GF:267:MET:HE2	45:GF:299:MET:HB3	1.76	0.66
44:GG:427:ALA:O	44:GG:431:ASP:N	2.26	0.66
45:GH:178:THR:HG22	45:GH:180:VAL:H	1.59	0.66
45:GJ:178:THR:CB	45:GJ:181:GLU:HG3	2.19	0.66
44:GK:184:PRO:HG2	44:GK:398:MET:CE	2.25	0.66
45:GL:318:ARG:CZ	45:GL:358:PRO:HD2	2.25	0.66
45:GL:325:GLU:HA	45:GL:328:GLU:OE2	1.96	0.66
45:GN:310:TYR:CD1	45:GN:371:SER:HB2	2.31	0.66
45:GN:374:ILE:HA	45:GN:377:MET:HE1	1.76	0.66
44:HE:276:ILE:CD1	44:HE:281:ALA:HA	2.23	0.66
44:HI:223:THR:HG21	45:HJ:320:ARG:NH2	2.10	0.66
44:HK:417:GLU:O	44:HK:420:GLU:HG2	1.95	0.66
44:HM:208:ALA:HB3	44:HM:302:MET:O	1.95	0.66
45:HN:420:SER:O	45:HN:423:GLN:HG3	1.95	0.66
44:IA:75:ILE:O	44:IA:78:VAL:HG12	1.94	0.66
44:IA:297:GLU:OE1	44:IA:300:ASN:N	2.28	0.66
45:IB:282:ARG:HD3	45:IB:284:LEU:HD23	1.75	0.66
45:IB:330:MET:HA	45:IB:333:VAL:HG12	1.78	0.66
45:ID:109:GLY:HA3	45:ID:147:MET:HE1	1.76	0.66
44:IG:54:SER:HB3	44:IG:64:ARG:NH1	2.10	0.66
45:IL:233:MET:O	45:IL:236:VAL:HG12	1.96	0.66
45:IN:42:LEU:CD2	45:IN:356:ILE:HD11	2.26	0.66
44:JC:206:ASN:OD1	46:JC:501:GTP:N2	2.21	0.66
45:JF:66:MET:SD	45:JF:116:VAL:HG21	2.36	0.66
45:JF:371:SER:O	45:JF:374:ILE:HG22	1.94	0.66
45:JJ:406:MET:SD	45:NJ:307:HIS:NE2	2.69	0.66
44:JK:151:SER:HB2	44:JK:193:SER:OG	1.95	0.66
44:JK:387:VAL:O	44:JK:390:ARG:HG2	1.94	0.66
45:JN:268:ILE:HG22	45:JN:368:VAL:HG22	1.77	0.66
45:KB:101:TRP:CE3	45:KB:187:LEU:HD13	2.31	0.66
45:KB:286:VAL:CG2	45:KB:325:GLU:HG3	2.26	0.66
45:KB:380:ARG:O	45:KB:384:GLN:NE2	2.28	0.66
44:KE:150:GLY:O	44:KE:154:LEU:HD23	1.95	0.66
44:KG:205:ASP:OD1	44:KG:303:ALA:HA	1.95	0.66
44:KI:292:THR:HG21	44:KI:331:SER:HB2	1.76	0.66
45:KL:418:LEU:O	45:KL:421:GLU:HG2	1.95	0.66
45:KN:183:TYR:HB3	45:KN:398:TYR:CE2	2.31	0.66
45:KN:385:PHE:CZ	45:KN:389:PHE:HB2	2.30	0.66
44:LA:137:VAL:HG12	44:LA:167:LEU:O	1.96	0.66
44:LE:109:THR:HG21	44:LE:411:GLU:OE1	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:1:MET:O	45:LN:2:ARG:HG2	1.95	0.66
45:LN:235:GLY:HA2	45:LN:318:ARG:NH2	2.09	0.66
44:MA:276:ILE:HG12	44:MA:281:ALA:HB2	1.78	0.66
45:MB:266:PHE:CE1	45:MB:370:ASN:HB2	2.29	0.66
44:MC:120:ASP:O	44:MC:123:ARG:HB2	1.95	0.66
44:ME:21:TRP:CH2	44:ME:63:PRO:HB3	2.30	0.66
44:ME:408:TYR:HB3	44:ME:413:MET:HE2	1.76	0.66
45:MH:44:LEU:HD23	45:MH:47:ILE:HG13	1.78	0.66
44:MI:241:SER:OG	44:MI:250:VAL:O	2.12	0.66
45:MJ:73:MET:O	45:MJ:76:VAL:HG12	1.95	0.66
45:MN:152:ILE:HA	45:MN:155:VAL:HG22	1.77	0.66
45:MN:293:MET:HE1	45:MN:365:VAL:HG11	1.76	0.66
45:NF:116:VAL:O	45:NF:119:VAL:HG12	1.95	0.66
45:NJ:83:GLN:O	45:OJ:281:TYR:OH	2.12	0.66
44:NK:254:GLU:OE2	45:NN:99:ASN:ND2	2.27	0.66
44:NM:7:ILE:HG23	44:NM:66:VAL:HG11	1.76	0.66
44:NM:291:ILE:HB	44:NM:375:VAL:HG11	1.76	0.66
44:OC:298:PRO:HA	44:OC:301:MET:HE1	1.76	0.66
45:OF:242:PHE:CD1	45:OF:356:ILE:HG13	2.30	0.66
44:OK:254:GLU:HG3	45:ON:98:GLY:CA	2.26	0.66
44:OK:288:VAL:HA	44:OK:291:ILE:CG2	2.24	0.66
44:PA:319:TYR:HE2	44:PA:328:VAL:HG22	1.59	0.66
44:PC:112:LYS:O	44:PC:115:VAL:HG12	1.95	0.66
45:PD:225:LEU:O	45:PD:229:VAL:HG23	1.95	0.66
44:PE:224:TYR:HE2	45:PF:246:LEU:HD21	1.59	0.66
45:PF:22:GLU:HA	45:PF:26:ASP:OD2	1.95	0.66
45:PH:131:GLN:O	45:PH:163:ILE:HG12	1.95	0.66
44:PI:89:PRO:HD3	44:QI:280:LYS:CE	2.24	0.66
44:PK:295:ALA:HB1	44:PK:377:MET:HE3	1.78	0.66
45:PL:8:GLN:HE21	45:PL:14:ASN:HA	1.60	0.66
45:QB:100:ASN:ND2	45:QB:401:GLU:OE1	2.27	0.66
44:QC:229:ARG:HA	44:QC:229:ARG:CZ	2.25	0.66
44:QC:269:LEU:HD23	44:QC:379:SER:O	1.95	0.66
44:QI:47:ASP:HB2	44:QI:49:PHE:CD1	2.30	0.66
44:QM:141:VAL:HG22	44:QM:187:SER:HA	1.77	0.66
45:RB:130:LEU:HD21	45:RB:133:PHE:CZ	2.29	0.66
44:RC:137:VAL:CG1	44:RC:168:GLY:HA2	2.25	0.66
45:RD:199:CYS:HB3	45:RD:265:PHE:CD1	2.31	0.66
44:RG:262:TYR:HB3	44:RG:263:PRO:HD2	1.76	0.66
44:RI:254:GLU:CG	45:RJ:98:GLY:HA2	2.23	0.66
45:RJ:269:GLY:HA2	45:RJ:300:MET:CE	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:71:GLU:OE1	44:RK:73:THR:N	2.28	0.66
44:RK:118:CYS:O	44:RK:122:ILE:HD12	1.95	0.66
44:RK:205:ASP:OD1	44:RK:303:ALA:HA	1.94	0.66
44:RK:208:ALA:O	44:RK:212:ILE:HG12	1.96	0.66
45:RL:383:GLU:O	45:RL:387:ALA:N	2.24	0.66
45:RL:384:GLN:O	45:RL:388:MET:HG3	1.96	0.66
44:RM:384:ILE:O	44:RM:387:VAL:HG22	1.94	0.66
45:RN:117:LEU:HD11	45:RN:154:LYS:HE3	1.77	0.66
44:SA:137:VAL:CG1	44:SA:168:GLY:HA2	2.24	0.66
44:SA:247:ALA:HB3	44:SA:355:ILE:CG2	2.25	0.66
45:SB:342:VAL:HG13	45:SB:345:ILE:HG22	1.76	0.66
44:SE:233:GLN:HB3	44:SE:272:TYR:OH	1.95	0.66
45:SF:385:PHE:HE2	45:SF:412:GLU:HB2	1.60	0.66
44:SG:137:VAL:HG12	44:SG:167:LEU:O	1.95	0.66
44:SI:2:ARG:O	44:SI:51:THR:HA	1.95	0.66
44:SK:97:GLU:HG2	44:SK:105:ARG:HH22	1.59	0.66
44:SK:271:SER:O	44:SK:377:MET:HG2	1.95	0.66
44:SK:433:GLU:O	44:SK:437:ILE:HG23	1.96	0.66
44:SM:212:ILE:CD1	44:SM:300:ASN:HA	2.24	0.66
44:SM:288:VAL:HA	44:SM:291:ILE:CG1	2.25	0.66
44:TA:175:PRO:HD3	44:TA:304:LYS:HD3	1.77	0.66
45:TB:169:VAL:HG22	45:TB:202:ILE:HB	1.76	0.66
44:TC:238:LEU:HD12	44:TC:239:THR:HG23	1.76	0.66
45:TD:272:PRO:HD3	45:TD:364:ALA:HA	1.77	0.66
45:TF:3:GLU:HB2	45:TF:49:VAL:O	1.95	0.66
45:TL:229:VAL:HG12	45:TL:233:MET:CE	2.26	0.66
45:TN:267:MET:O	45:TN:368:VAL:HA	1.95	0.66
45:TN:284:LEU:HD13	45:TN:362:LYS:HE2	1.77	0.66
45:UB:60:VAL:HG23	45:UB:84:LEU:O	1.95	0.66
45:UB:155:VAL:O	45:UB:159:TYR:N	2.24	0.66
45:UD:2:ARG:HH22	44:UE:71:GLU:HG2	1.61	0.66
45:UD:211:CYS:CA	45:UD:217:LEU:HD12	2.26	0.66
45:UD:318:ARG:HB3	45:UD:357:PRO:HB3	1.76	0.66
45:UD:322:SER:HB2	44:UE:221:ARG:HD2	1.75	0.66
45:UD:375:GLN:HE21	45:UD:422:TYR:HD2	1.43	0.66
44:UE:390:ARG:O	44:UE:393:HIS:N	2.28	0.66
45:UH:68:LEU:HD23	45:UH:97:ALA:HB2	1.78	0.66
44:UM:203:MET:HG3	44:UM:384:ILE:HD13	1.78	0.66
44:UM:269:LEU:O	44:UM:379:SER:N	2.28	0.66
44:VA:387:VAL:HG12	44:VA:390:ARG:NH1	2.10	0.66
44:VE:140:SER:OG	46:VE:501:GTP:O2B	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:183:GLU:HG2	44:VG:184:PRO:HD3	1.77	0.66
45:VH:21:TRP:CZ3	45:VH:61:PRO:HB3	2.30	0.66
45:VJ:286:VAL:HG11	45:VJ:325:GLU:HG2	1.76	0.66
45:VJ:287:PRO:O	45:VJ:290:THR:HG22	1.96	0.66
44:VM:191:THR:O	44:VM:195:LEU:HD23	1.95	0.66
45:VN:251:ARG:O	45:VN:255:VAL:N	2.29	0.66
44:WC:296:PHE:HE2	44:WC:335:ILE:HG21	1.60	0.66
45:WD:215:LEU:HD21	45:WD:273:LEU:HB3	1.78	0.66
44:WE:338:LYS:CD	44:WE:340:THR:HG22	2.25	0.66
44:WG:301:MET:HG3	44:WG:307:PRO:HD3	1.77	0.66
44:WI:248:LEU:HD12	45:WL:11:GLN:OE1	1.96	0.66
45:WJ:33:THR:OG1	45:WJ:35:THR:HG22	1.95	0.66
44:WK:2:ARG:HD2	44:WK:242:LEU:O	1.94	0.66
45:WL:286:VAL:HB	45:WL:287:PRO:HD3	1.77	0.66
44:WM:4:VAL:HG12	44:WM:51:THR:HG22	1.77	0.66
44:WM:434:GLU:O	44:WM:437:ILE:HG12	1.96	0.66
45:WN:314:SER:OG	45:WN:368:VAL:HB	1.95	0.66
9:OH:352:GLU:OE2	44:GM:58:ALA:HA	1.95	0.66
5:ID:93:GLN:NE2	44:EG:31:GLN:HG2	2.10	0.66
15:1V:167:TYR:OH	44:MK:399:TYR:O	2.12	0.66
28:2C:4:TYR:HB2	45:LJ:359:LYS:HZ1	1.60	0.66
6:2E:61:LYS:CG	45:DJ:37:HIS:HB3	2.21	0.66
10:2N:1:MET:HE3	44:IA:114:ILE:HA	1.76	0.66
15:3V:29:ASN:O	44:MA:390:ARG:HA	1.94	0.66
35:4R:29:GLN:HE22	44:LC:50:ASN:HB2	1.59	0.66
38:5E:200:LEU:HD13	44:LC:396:ASP:HB3	1.76	0.66
38:5F:110:ARG:HG3	38:5F:112:ALA:H	1.59	0.66
38:5F:111:ASN:HB3	45:NF:44:LEU:CD1	2.26	0.66
38:5G:123:ARG:CD	44:OI:372:MET:HE3	2.24	0.66
38:5G:213:TYR:O	45:LN:390:ARG:NH1	2.28	0.66
39:5I:68:THR:C	39:5I:71:PRO:HD2	2.15	0.66
39:5I:110:LYS:NZ	45:JD:412:GLU:OE2	2.28	0.66
39:5K:79:SER:OG	44:JM:402:ARG:NH2	2.26	0.66
35:7R:109:GLU:HG3	35:7R:208:ALA:HB3	1.77	0.66
35:7R:508:ALA:HB3	35:7R:513:HIS:CE1	2.30	0.66
44:AA:105:ARG:HA	44:AA:109:THR:CG2	2.26	0.66
44:AE:155:GLU:HG2	44:AE:197:HIS:NE2	2.11	0.66
44:AE:174:SER:HB3	44:AE:175:PRO:HD2	1.76	0.66
45:AH:86:ARG:HH21	45:AH:87:PRO:CG	2.07	0.66
45:AH:173:PRO:HG3	45:AH:380:ARG:HD3	1.77	0.66
44:AI:276:ILE:HG23	44:AI:281:ALA:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:405:GLU:HA	45:AN:408:PHE:HD2	1.60	0.66
44:BA:288:VAL:HG21	44:BA:327:ASP:OD2	1.94	0.66
45:BB:148:GLY:O	45:BB:152:ILE:HG12	1.95	0.66
45:BD:110:ALA:O	45:BD:113:ILE:HG22	1.96	0.66
45:BF:237:THR:HG23	45:BF:241:ARG:HH12	1.60	0.66
45:BF:274:THR:CG2	45:BF:279:GLN:HA	2.25	0.66
45:BH:97:ALA:HB3	45:BH:143:THR:CG2	2.23	0.66
44:BK:150:GLY:O	44:BK:154:LEU:HD23	1.96	0.66
44:BK:397:LEU:HD23	45:BL:346:PRO:HD3	1.77	0.66
44:BM:180:ALA:HA	45:BN:350:LYS:HZ1	1.60	0.66
45:BN:24:ILE:HG23	45:BN:27:GLU:OE2	1.96	0.66
44:CC:434:GLU:O	44:CC:437:ILE:HG12	1.95	0.66
44:CE:118:CYS:O	44:CE:122:ILE:HG12	1.96	0.66
45:CL:274:THR:HB	45:CL:282:ARG:NH1	2.09	0.66
45:CN:172:SER:HB2	45:CN:205:GLU:OE1	1.95	0.66
45:DB:146:GLY:O	45:DB:149:THR:HG22	1.95	0.66
44:DC:22:GLU:HA	44:DC:25:CYS:HB2	1.77	0.66
45:DD:101:TRP:HE3	45:DD:187:LEU:HD13	1.60	0.66
45:DD:252:LYS:HE2	44:DE:101:ASN:HD21	1.58	0.66
44:DE:136:LEU:CD2	44:DE:167:LEU:HB2	2.26	0.66
45:DF:174:LYS:CD	45:DF:175:VAL:HG13	2.25	0.66
45:DH:252:LYS:HE2	44:DI:101:ASN:OD1	1.95	0.66
44:DI:15:GLN:HA	44:DI:18:ASN:HB2	1.78	0.66
44:DM:274:PRO:HG2	44:DM:291:ILE:HG22	1.78	0.66
44:DM:344:VAL:HG21	44:DM:346:TRP:CH2	2.31	0.66
44:EA:319:TYR:O	44:EA:356:ASN:N	2.28	0.66
45:EB:133:PHE:HB2	45:EB:164:MET:SD	2.36	0.66
44:EC:68:LEU:HG	44:EC:93:ILE:CD1	2.26	0.66
45:EF:61:PRO:HG2	45:EF:84:LEU:HB3	1.75	0.66
45:EF:207:LEU:HB3	45:EF:225:LEU:CD2	2.22	0.66
45:EH:343:GLU:OE2	45:EH:430:ALA:N	2.28	0.66
44:EI:189:LEU:HD11	44:EI:418:PHE:HE1	1.60	0.66
44:EI:434:GLU:O	44:EI:437:ILE:HG12	1.94	0.66
45:EJ:274:THR:HB	45:EJ:282:ARG:HH11	1.60	0.66
45:FB:67:ASP:OD1	45:FB:68:LEU:N	2.28	0.66
44:FC:288:VAL:HG11	44:FC:327:ASP:OD1	1.95	0.66
44:FC:384:ILE:O	44:FC:387:VAL:HG22	1.96	0.66
44:FG:98:ASP:OD1	44:FG:99:ALA:N	2.28	0.66
45:FH:317:PHE:CZ	45:FH:326:VAL:HG11	2.30	0.66
44:FK:70:LEU:HD12	44:FK:145:THR:HB	1.77	0.66
44:FK:287:SER:O	44:FK:290:GLU:HG2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:325:PRO:CG	44:FK:355:ILE:HD13	2.24	0.66
44:GA:181:VAL:HG12	45:GB:348:ASN:HA	1.77	0.66
45:GB:237:THR:HG23	45:GB:241:ARG:HE	1.60	0.66
45:GD:404:ASP:OD1	45:GD:406:MET:HB2	1.95	0.66
44:GE:54:SER:O	44:GE:62:VAL:HG12	1.95	0.66
44:GE:275:ILE:CD1	44:GE:368:LEU:HD11	2.25	0.66
44:GG:88:HIS:HB3	44:GG:91:GLN:HG3	1.78	0.66
44:GG:271:SER:O	44:GG:377:MET:HG3	1.96	0.66
44:GK:22:GLU:HG3	44:GK:83:TYR:HE2	1.59	0.66
45:GL:200:MET:HE1	45:GL:266:PHE:HB2	1.76	0.66
45:GL:215:LEU:CD2	45:GL:273:LEU:HB3	2.25	0.66
44:GM:133:GLN:O	44:GM:165:SER:OG	2.11	0.66
44:HA:19:ALA:HA	44:HA:22:GLU:OE1	1.95	0.66
44:HA:256:GLN:HB2	44:HA:260:VAL:CG2	2.25	0.66
44:HA:272:TYR:HD1	44:HA:376:CYS:HB2	1.59	0.66
44:HC:340:THR:CG2	44:HC:341:ILE:HD12	2.26	0.66
45:HD:169:VAL:HA	45:HD:202:ILE:O	1.95	0.66
44:HE:188:ILE:HG23	44:HE:425:LEU:HD11	1.78	0.66
44:HE:317:MET:SD	44:HE:332:ILE:HD11	2.35	0.66
45:HF:21:TRP:CZ3	45:HF:61:PRO:HB3	2.30	0.66
44:HI:434:GLU:O	44:HI:437:ILE:HG12	1.95	0.66
44:HK:372:MET:O	44:HK:373:ARG:HD2	1.96	0.66
45:HL:309:ARG:NH2	45:HL:340:TYR:O	2.26	0.66
44:HM:307:PRO:HB2	44:HM:312:TYR:OH	1.95	0.66
44:IA:202:VAL:HG22	44:IA:268:MET:SD	2.35	0.66
45:IB:311:LEU:N	45:IB:370:ASN:O	2.26	0.66
44:IC:292:THR:HG21	44:IC:331:SER:CB	2.25	0.66
45:ID:253:LEU:HD21	45:ID:316:LEU:HD11	1.78	0.66
44:IE:183:GLU:HG2	44:IE:184:PRO:HD3	1.78	0.66
44:IE:189:LEU:HD11	44:IE:418:PHE:CE1	2.31	0.66
45:IF:11:GLN:NE2	48:IF:501:GDP:O2A	2.28	0.66
44:II:184:PRO:O	44:II:188:ILE:HG12	1.95	0.66
44:II:205:ASP:OD1	44:II:303:ALA:HA	1.96	0.66
45:IJ:134:GLN:O	45:IJ:135:ILE:HD13	1.95	0.66
45:IJ:405:GLU:N	45:IJ:405:GLU:OE1	2.28	0.66
44:IK:209:ILE:HG23	44:IK:227:LEU:HD22	1.78	0.66
44:IK:252:ILE:HA	44:IK:255:PHE:HD2	1.61	0.66
45:JB:108:GLU:HA	45:JB:111:GLU:HG3	1.76	0.66
45:JB:273:LEU:H	45:JB:292:GLN:NE2	1.93	0.66
45:JF:262:ARG:O	45:JF:263:LEU:HD23	1.95	0.66
44:JG:261:PRO:HA	45:JJ:394:PHE:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:258:ILE:HG13	45:JH:258:ILE:O	1.94	0.66
44:JI:372:MET:C	44:JI:373:ARG:HD2	2.16	0.66
45:JJ:7:ILE:O	45:JJ:135:ILE:HG23	1.96	0.66
44:JM:318:MET:HB3	44:JM:376:CYS:SG	2.36	0.66
45:JN:313:ALA:HB1	45:JN:367:PHE:CE1	2.30	0.66
45:KB:211:CYS:HA	45:KB:215:LEU:HD12	1.76	0.66
45:KD:295:ASP:OD1	45:KD:296:ALA:N	2.29	0.66
44:KE:181:VAL:HG22	45:KF:347:ASN:O	1.96	0.66
45:KJ:355:ASP:O	45:KJ:356:ILE:HD13	1.94	0.66
45:KJ:383:GLU:O	45:KJ:386:THR:HG22	1.95	0.66
45:LB:73:MET:O	45:LB:76:VAL:HG12	1.96	0.66
44:LC:175:PRO:HD2	44:LC:176:GLN:OE1	1.96	0.66
45:LD:46:ARG:HG3	45:LD:49:VAL:HG23	1.77	0.66
45:LD:102:ALA:HA	45:LD:403:MET:CE	2.25	0.66
44:LG:98:ASP:OD1	44:LG:99:ALA:N	2.27	0.66
44:LI:21:TRP:O	44:LI:25:CYS:N	2.24	0.66
44:LI:35:GLN:OE1	44:LI:35:GLN:N	2.29	0.66
44:LI:254:GLU:CG	45:LL:98:GLY:HA2	2.25	0.66
45:LJ:21:TRP:HZ3	45:LJ:51:TYR:HE1	1.42	0.66
44:LM:384:ILE:O	44:LM:387:VAL:HG12	1.96	0.66
45:LN:108:GLU:O	45:LN:111:GLU:HG3	1.94	0.66
44:MA:205:ASP:OD1	44:MA:303:ALA:HA	1.96	0.66
44:MA:407:TRP:HH2	45:MB:258:ILE:HB	1.60	0.66
45:MB:166:THR:OG1	45:MB:199:CYS:HA	1.95	0.66
44:MG:111:GLY:CA	44:MG:149:LEU:HD21	2.26	0.66
44:MM:175:PRO:HB3	44:MM:390:ARG:NH1	2.10	0.66
44:NC:199:ASP:O	44:NC:266:HIS:HB2	1.95	0.66
45:NF:200:MET:HG2	45:NF:266:PHE:HB2	1.77	0.66
45:NL:372:THR:HA	45:NL:422:TYR:CE2	2.31	0.66
45:NN:267:MET:CE	45:NN:301:CYS:HB2	2.26	0.66
44:OA:276:ILE:CD1	44:OA:281:ALA:HA	2.24	0.66
44:OC:22:GLU:HG2	44:OC:83:TYR:OH	1.96	0.66
44:OC:229:ARG:NH1	44:OC:363:VAL:HG11	2.10	0.66
44:OG:330:ALA:O	44:OG:334:THR:HG23	1.95	0.66
45:ON:198:GLU:OE2	45:ON:254:ALA:HA	1.96	0.66
44:PC:17:GLY:HA2	44:PC:20:CYS:SG	2.34	0.66
44:PC:210:TYR:CE1	44:PC:227:LEU:HD21	2.31	0.66
45:PD:70:PRO:HB2	45:PD:74:ASP:OD2	1.95	0.66
44:PI:32:PRO:HB3	44:PI:83:TYR:CE1	2.30	0.66
44:PI:96:LYS:O	45:PJ:1:MET:HE2	1.95	0.66
45:PJ:20:PHE:CE1	45:PJ:233:MET:HB3	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PJ:101:TRP:CE3	45:PJ:187:LEU:HD13	2.30	0.66
45:PJ:232:ALA:O	45:PJ:236:VAL:HG23	1.95	0.66
45:PJ:242:PHE:CE2	45:PJ:356:ILE:HG21	2.29	0.66
44:PM:210:TYR:CD1	45:PN:324:LYS:HD2	2.31	0.66
44:QA:55:GLU:HG3	44:QA:57:GLY:H	1.61	0.66
44:QC:240:ALA:HB1	44:QC:244:PHE:HD2	1.60	0.66
44:QC:268:MET:CB	44:QC:380:ASN:HA	2.25	0.66
44:QC:306:ASP:OD2	44:QC:308:ARG:HB2	1.95	0.66
44:QC:349:THR:CG2	45:QD:179:VAL:HA	2.26	0.66
45:QD:132:GLY:HA3	45:QD:163:ILE:HG12	1.76	0.66
45:QF:232:ALA:O	45:QF:236:VAL:HG23	1.94	0.66
44:QI:9:VAL:HG22	44:QI:145:THR:HG23	1.77	0.66
45:QJ:12:CYS:HB3	45:QJ:138:SER:CB	2.26	0.66
45:QJ:139:LEU:HD12	45:QJ:188:SER:OG	1.95	0.66
45:QJ:232:ALA:O	45:QJ:236:VAL:HG23	1.96	0.66
45:QJ:392:LYS:HG3	45:QJ:395:LEU:HD22	1.76	0.66
44:QM:13:GLY:HA2	44:QM:16:VAL:HG12	1.76	0.66
44:QM:191:THR:HA	44:QM:194:LEU:HG	1.77	0.66
44:RA:4:VAL:HG23	44:RA:134:GLY:O	1.96	0.66
45:RB:317:PHE:CB	45:RB:353:ILE:HG13	2.24	0.66
44:RC:251:ASP:O	44:RC:254:GLU:N	2.26	0.66
45:RD:258:ILE:HG23	45:RD:263:LEU:O	1.94	0.66
45:RD:315:ALA:O	45:RD:316:LEU:HD12	1.95	0.66
44:RE:208:ALA:O	44:RE:212:ILE:HG12	1.95	0.66
44:RG:257:THR:HA	45:RH:397:TRP:NE1	2.09	0.66
44:RI:12:GLY:N	46:RI:501:GTP:O2B	2.21	0.66
45:RL:238:CYS:HB2	45:RL:318:ARG:CZ	2.26	0.66
45:RL:325:GLU:O	45:RL:329:GLN:HG2	1.96	0.66
44:RM:224:TYR:HD1	44:RM:227:LEU:HD12	1.60	0.66
44:RM:284:GLU:HG3	44:RM:286:LEU:CD2	2.26	0.66
44:SC:258:ASN:HB3	44:SC:352:LYS:CE	2.23	0.66
45:SF:12:CYS:HB2	48:SF:501:GDP:C8	2.30	0.66
45:SH:4:ILE:HG22	45:SH:131:GLN:HB3	1.78	0.66
44:SI:210:TYR:HE1	44:SI:227:LEU:HD11	1.60	0.66
44:SI:257:THR:HG22	45:SJ:397:TRP:CH2	2.31	0.66
45:SJ:319:GLY:HA2	45:SJ:355:ASP:O	1.96	0.66
45:SJ:372:THR:HA	45:SJ:422:TYR:OH	1.95	0.66
44:SK:65:ALA:O	44:SK:91:GLN:NE2	2.29	0.66
44:SM:11:GLN:HA	44:SM:14:ILE:HB	1.76	0.66
44:TA:9:VAL:HA	44:TA:68:LEU:HB2	1.76	0.66
44:TA:260:VAL:HG13	44:TA:265:ILE:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:305:PRO:HA	45:TF:373:ALA:CB	2.24	0.66
44:TG:253:THR:O	44:TG:257:THR:HG23	1.95	0.66
45:TH:67:ASP:CB	45:TH:72:THR:HG21	2.23	0.66
44:TI:241:SER:CB	44:TI:250:VAL:H	2.04	0.66
45:TJ:130:LEU:HB3	45:TJ:162:ARG:HH21	1.60	0.66
44:TK:238:LEU:HA	44:TK:318:MET:HE1	1.77	0.66
45:TL:36:TYR:CE2	45:TL:44:LEU:HG	2.31	0.66
45:TL:350:LYS:CE	44:TM:180:ALA:HA	2.26	0.66
45:TN:175:VAL:HG22	45:TN:205:GLU:OE2	1.95	0.66
44:UG:4:VAL:HG23	44:UG:134:GLY:O	1.95	0.66
45:UH:2:ARG:H	45:UH:129:CYS:HB3	1.61	0.66
45:UH:315:ALA:O	45:UH:351:SER:HA	1.96	0.66
44:UI:69:ASP:HB3	44:UI:75:ILE:CD1	2.15	0.66
45:UJ:262:ARG:NH1	45:UJ:421:GLU:OE1	2.29	0.66
45:UJ:305:PRO:HA	45:UJ:373:ALA:CB	2.25	0.66
45:UL:19:LYS:O	45:UL:22:GLU:HB2	1.95	0.66
45:UL:131:GLN:HG3	45:UL:163:ILE:CD1	2.25	0.66
44:UM:257:THR:HA	45:UN:397:TRP:NE1	2.09	0.66
45:VB:101:TRP:HB3	45:VB:398:TYR:HE1	1.61	0.66
45:VD:294:PHE:HE2	45:VD:333:VAL:HG21	1.60	0.66
44:VE:91:GLN:NE2	44:VE:125:LEU:HD11	2.10	0.66
44:VE:126:ALA:O	44:VE:129:CYS:N	2.29	0.66
44:VE:212:ILE:HD11	44:VE:275:ILE:HD12	1.76	0.66
44:VI:165:SER:O	44:VI:166:LYS:HE2	1.96	0.66
44:VI:199:ASP:O	44:VI:266:HIS:HB2	1.96	0.66
45:VJ:193:VAL:HG11	45:VJ:414:ASN:HD21	1.59	0.66
45:VL:139:LEU:HD22	45:VL:170:VAL:HG12	1.76	0.66
45:VN:66:MET:HG2	45:VN:91:VAL:HG23	1.78	0.66
44:WC:143:GLY:HA3	46:WC:501:GTP:O2A	1.96	0.66
45:WF:28:HIS:ND1	45:WF:43:GLN:O	2.27	0.66
45:WH:309:ARG:NH2	45:WH:426:GLN:O	2.24	0.66
44:WI:64:ARG:HG3	44:WI:125:LEU:HD12	1.77	0.66
45:WJ:163:ILE:CD1	45:WJ:251:ARG:HE	2.08	0.66
44:WM:74:VAL:HG23	44:WM:75:ILE:HD12	1.78	0.66
44:WM:286:LEU:H	44:WM:373:ARG:HH22	1.43	0.66
1:6H:217:GLN:CD	45:FD:320:ARG:NH1	2.49	0.66
7:0F:78:THR:HG22	45:ED:42:LEU:HD11	1.78	0.66
8:0G:56:LEU:HD22	44:JK:31:GLN:HB2	1.77	0.66
5:1D:14:TYR:HA	44:CG:79:ARG:NH2	2.11	0.66
9:1H:111:GLU:OE1	45:HL:279:GLN:NE2	2.28	0.66
20:1J:274:ASN:OD1	45:IL:217:LEU:HD11	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1R:289:ASN:N	45:DD:218:THR:OG1	2.27	0.66
17:2B:4:ILE:HD12	45:LL:320:ARG:HH21	1.59	0.66
5:2D:187:PHE:HA	44:FI:221:ARG:CG	2.24	0.66
15:2V:46:PRO:HD2	44:LE:114:ILE:HD11	1.75	0.66
32:3I:263:PHE:HD2	45:GJ:337:ASN:HD22	1.40	0.66
26:3R:80:CYS:SG	44:MK:32:PRO:HD2	2.35	0.66
13:3T:225:SER:HB2	44:MK:196:GLU:OE1	1.95	0.66
31:4H:205:GLN:HB3	44:AK:82:THR:CG2	2.24	0.66
38:5G:123:ARG:HD2	44:OI:372:MET:CE	2.24	0.66
38:5G:137:VAL:HG11	45:OL:215:LEU:CD2	2.25	0.66
39:5K:91:SER:HA	44:JM:430:LYS:HE2	1.76	0.66
35:5R:7:LYS:CD	35:5R:8:THR:HG23	2.15	0.66
35:5R:149:GLN:HB3	35:5R:159:TYR:CD1	2.29	0.66
35:5R:336:CYS:SG	35:5R:368:GLN:HB3	2.35	0.66
35:5R:394:GLU:OE1	35:5R:394:GLU:N	2.17	0.66
35:7R:65:LEU:HB2	45:MB:39:ASP:CG	2.15	0.66
35:7R:592:PHE:O	35:7R:600:LEU:HA	1.95	0.66
44:AA:238:LEU:HD21	44:AA:255:PHE:HE2	1.61	0.66
45:AB:102:ALA:O	45:AB:106:TYR:N	2.23	0.66
45:AB:304:ASP:OD2	45:AB:306:ARG:NH2	2.29	0.66
45:AD:7:ILE:CD1	45:AD:64:ILE:HB	2.26	0.66
45:AD:7:ILE:HD11	45:AD:66:MET:HE2	1.77	0.66
45:AF:376:GLU:HG3	45:AF:380:ARG:HH21	1.60	0.66
45:AJ:113:ILE:CD1	45:AJ:150:LEU:HG	2.25	0.66
45:AL:7:ILE:HB	45:AL:135:ILE:HD13	1.77	0.66
45:AL:406:MET:O	45:AL:410:GLU:HG3	1.94	0.66
44:AM:205:ASP:OD2	44:AM:304:LYS:N	2.21	0.66
44:BA:325:PRO:O	44:BA:328:VAL:HG12	1.95	0.66
44:BC:89:PRO:HD3	44:CC:283:HIS:ND1	2.11	0.66
44:BE:417:GLU:O	44:BE:420:GLU:HG2	1.94	0.66
45:BJ:203:ASP:O	45:BJ:207:LEU:HG	1.96	0.66
45:BN:83:GLN:O	45:CL:281:TYR:OH	2.14	0.66
44:CC:229:ARG:HD3	44:CC:363:VAL:HG11	1.78	0.66
45:CF:135:ILE:HG13	45:CF:152:ILE:CD1	2.26	0.66
44:CG:204:LEU:HD22	44:CG:231:ILE:HD12	1.77	0.66
44:CG:257:THR:HA	45:CH:397:TRP:CE2	2.30	0.66
44:CG:332:ILE:O	44:CG:335:ILE:HG22	1.94	0.66
45:CJ:91:VAL:HG12	45:CJ:112:LEU:HD21	1.77	0.66
45:CJ:177:ASP:OD2	48:CJ:501:GDP:O3'	2.08	0.66
44:CK:104:ALA:HB3	44:CK:411:GLU:HB2	1.77	0.66
45:DB:191:GLN:O	45:DB:195:ASN:ND2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:284:LEU:HD13	45:DB:362:LYS:HB2	1.77	0.66
44:DC:12:GLY:O	44:DC:16:VAL:HG12	1.95	0.66
44:DC:63:PRO:HG3	44:DC:86:LEU:HG	1.78	0.66
45:DD:64:ILE:HG13	45:DD:89:ASN:ND2	2.11	0.66
44:DE:292:THR:HG21	44:DE:331:SER:HB3	1.76	0.66
45:DF:344:TRP:CE3	45:DF:345:ILE:HB	2.30	0.66
44:DG:137:VAL:HG12	44:DG:168:GLY:HA2	1.77	0.66
44:DG:141:VAL:HG22	44:DG:187:SER:HA	1.77	0.66
44:DI:352:LYS:HD2	45:DJ:177:ASP:O	1.95	0.66
44:DK:408:TYR:HB3	44:DK:413:MET:CE	2.26	0.66
44:DM:207:GLU:HA	44:DM:210:TYR:CD2	2.30	0.66
44:EC:271:SER:HB2	44:EC:377:MET:SD	2.36	0.66
44:EC:288:VAL:HA	44:EC:291:ILE:HG12	1.78	0.66
44:EE:202:VAL:HA	44:EE:268:MET:O	1.95	0.66
45:EF:81:PHE:HB3	45:EF:84:LEU:HD13	1.77	0.66
44:EG:137:VAL:O	44:EG:168:GLY:HA2	1.96	0.66
44:EG:174:SER:HB3	44:EG:207:GLU:CG	2.26	0.66
45:EN:398:TYR:HB3	45:EN:403:MET:HE3	1.76	0.66
45:FB:313:ALA:HB3	45:FB:349:ILE:CD1	2.25	0.66
44:FC:311:LYS:N	44:FC:382:THR:OG1	2.28	0.66
45:FD:124:ALA:O	45:FD:130:LEU:HD21	1.95	0.66
44:FK:273:ALA:HB3	44:FK:375:VAL:CG1	2.26	0.66
44:GA:159:VAL:HG13	44:GA:160:ASP:OD1	1.93	0.66
44:GA:406:HIS:CE1	45:GB:261:PRO:HD3	2.30	0.66
45:GB:245:GLN:HB2	45:GB:353:ILE:CB	2.22	0.66
44:GC:171:ILE:HG23	44:GC:204:LEU:O	1.95	0.66
44:GE:89:PRO:CD	44:HE:280:LYS:HE3	2.26	0.66
44:GE:205:ASP:OD1	44:GE:303:ALA:HA	1.95	0.66
45:GF:257:LEU:HD11	45:GF:314:SER:HB2	1.78	0.66
44:GI:224:TYR:HB3	46:GI:501:GTP:O6	1.94	0.66
44:GK:105:ARG:HH11	45:GL:251:ARG:HH21	1.41	0.66
44:GK:210:TYR:CE1	44:GK:227:LEU:HD11	2.31	0.66
45:GN:42:LEU:HA	45:GN:45:GLU:HG3	1.77	0.66
45:GN:103:LYS:HD3	45:GN:401:GLU:OE2	1.95	0.66
45:GN:127:CYS:SG	45:GN:130:LEU:HB2	2.35	0.66
45:HB:4:ILE:HG22	45:HB:132:GLY:N	2.10	0.66
45:HB:317:PHE:CZ	45:HB:326:VAL:HG22	2.30	0.66
45:HH:54:ALA:HB3	45:HH:58:ARG:O	1.95	0.66
45:HJ:103:LYS:O	45:HJ:108:GLU:HB2	1.94	0.66
45:HN:173:PRO:HG3	45:HN:380:ARG:HD3	1.76	0.66
44:IA:242:LEU:HD21	44:IA:251:ASP:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:185:ALA:O	45:IB:188:SER:OG	2.10	0.66
45:IJ:12:CYS:CB	45:IJ:138:SER:HB2	2.26	0.66
45:IJ:73:MET:HE2	45:IJ:73:MET:CA	2.26	0.66
44:IK:17:GLY:O	44:IK:20:CYS:N	2.17	0.66
45:IL:345:ILE:O	45:IL:345:ILE:HG23	1.95	0.66
44:IM:236:SER:O	44:IM:240:ALA:N	2.28	0.66
44:IM:289:ALA:O	44:IM:292:THR:HG22	1.96	0.66
45:IN:288:GLU:O	45:IN:291:GLN:HG3	1.96	0.66
44:JA:145:THR:HG22	46:JA:501:GTP:O3B	1.96	0.66
45:JD:60:VAL:HG11	45:JD:86:ARG:NH1	2.11	0.66
44:JI:168:GLY:O	44:JI:201:ALA:HA	1.96	0.66
45:JL:134:GLN:HA	45:JL:165:GLU:HB2	1.77	0.66
44:JM:49:PHE:CD2	44:JM:53:PHE:HB2	2.29	0.66
44:JM:69:ASP:O	44:JM:95:GLY:N	2.25	0.66
44:JM:105:ARG:HA	44:JM:109:THR:CG2	2.23	0.66
45:JN:211:CYS:O	45:JN:216:LYS:N	2.28	0.66
45:JN:284:LEU:HB2	45:JN:362:LYS:NZ	2.10	0.66
44:KA:101:ASN:ND2	45:KB:252:LYS:HE3	2.10	0.66
45:KF:247:ASN:O	45:KF:252:LYS:NZ	2.21	0.66
45:KH:271:ALA:HB2	45:KH:298:ASN:HD21	1.60	0.66
45:KJ:170:VAL:HG13	45:KJ:203:ASP:OD1	1.96	0.66
44:KM:49:PHE:CD2	44:KM:53:PHE:HB2	2.30	0.66
44:LA:311:LYS:HG3	44:LA:342:GLN:HE22	1.60	0.66
44:LA:371:VAL:HG12	44:LA:373:ARG:H	1.60	0.66
44:LC:257:THR:HG21	45:LF:98:GLY:O	1.95	0.66
44:LI:348:PRO:HB2	45:LL:384:GLN:NE2	2.11	0.66
45:LL:97:ALA:O	45:LL:103:LYS:HD3	1.96	0.66
45:MB:42:LEU:HA	45:MB:43:GLN:CG	2.26	0.66
45:MJ:284:LEU:HB3	45:MJ:362:LYS:NZ	2.10	0.66
44:MM:184:PRO:O	44:MM:188:ILE:HD12	1.96	0.66
45:MN:257:LEU:HD11	45:MN:314:SER:HB2	1.77	0.66
44:NA:55:GLU:HG3	44:NA:57:GLY:H	1.60	0.66
44:NC:347:CYS:HA	45:NF:388:MET:CE	2.25	0.66
45:ND:44:LEU:HD22	45:ND:47:ILE:HD13	1.77	0.66
45:ND:176:SER:HB2	45:ND:181:GLU:OE1	1.95	0.66
45:NF:26:ASP:HB3	45:NF:359:LYS:HE3	1.77	0.66
44:NG:116:ASP:OD1	44:NG:117:LEU:N	2.29	0.66
44:NG:320:ARG:NH1	44:NG:360:PRO:HA	2.10	0.66
44:NK:123:ARG:NH2	44:OK:293:ASN:OD1	2.28	0.66
44:NK:221:ARG:HA	45:NL:324:LYS:NZ	2.10	0.66
44:NM:166:LYS:N	44:NM:199:ASP:OD2	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:264:ARG:NH2	44:NM:428:LEU:HD13	2.10	0.66
44:NM:363:VAL:O	44:NM:365:GLY:HA2	1.95	0.66
44:OC:32:PRO:HB3	44:OC:83:TYR:CE1	2.31	0.66
45:OH:34:GLY:CA	45:OH:58:ARG:HG3	2.22	0.66
44:OI:262:TYR:HB3	44:OI:263:PRO:HD2	1.77	0.66
44:OI:439:THR:OG1	45:OL:391:ARG:NH1	2.28	0.66
44:PA:200:VAL:CG2	44:PA:256:GLN:HB3	2.25	0.66
44:PA:246:GLY:HA2	44:PA:357:TYR:CE1	2.30	0.66
45:PB:136:THR:HG22	45:PB:167:PHE:CD1	2.31	0.66
44:PE:210:TYR:CE1	44:PE:227:LEU:HD11	2.30	0.66
45:PF:202:ILE:HG23	45:PF:300:MET:HB3	1.77	0.66
44:PG:2:ARG:CG	44:PG:242:LEU:HD11	2.22	0.66
44:PM:25:CYS:O	44:PM:30:ILE:N	2.27	0.66
44:QA:174:SER:CB	44:QA:207:GLU:HB2	2.25	0.66
45:QD:1:MET:CE	44:QE:96:LYS:HD3	2.25	0.66
44:QE:32:PRO:HB3	44:QE:83:TYR:CE1	2.31	0.66
45:QF:396:HIS:HA	45:QF:399:THR:OG1	1.96	0.66
44:QG:173:PRO:CG	44:QG:391:LEU:HD21	2.25	0.66
45:QH:121:ARG:HG3	45:QH:159:TYR:OH	1.96	0.66
45:QH:267:MET:HE2	45:QH:374:ILE:CG2	2.26	0.66
45:QJ:243:PRO:HA	44:QK:73:THR:CG2	2.26	0.66
44:QK:247:ALA:HB3	44:QK:355:ILE:CG2	2.25	0.66
44:RA:51:THR:CG2	44:RA:243:ARG:HD3	2.25	0.66
44:RA:257:THR:HG22	45:RB:397:TRP:CZ2	2.30	0.66
45:RB:10:GLY:O	45:RB:14:ASN:ND2	2.29	0.66
44:RC:434:GLU:O	44:RC:437:ILE:HG12	1.95	0.66
45:RD:164:MET:HE3	45:RD:164:MET:HA	1.76	0.66
45:RF:172:SER:CB	45:RF:205:GLU:HB2	2.24	0.66
44:RG:12:GLY:O	44:RG:16:VAL:HG22	1.94	0.66
44:RG:206:ASN:HA	44:RG:209:ILE:CD1	2.26	0.66
44:RG:230:LEU:HD21	44:RG:368:LEU:HD21	1.78	0.66
45:RJ:165:GLU:OE2	45:RJ:250:LEU:HD22	1.95	0.66
45:RJ:334:GLN:NE2	45:RJ:348:ASN:OD1	2.29	0.66
44:RM:184:PRO:HA	44:RM:187:SER:HB2	1.77	0.66
44:SA:284:GLU:HG3	44:SA:286:LEU:HD22	1.77	0.66
45:SB:331:LEU:HB2	44:SC:177:VAL:HG22	1.76	0.66
45:SD:273:LEU:O	45:SD:282:ARG:NH1	2.28	0.66
44:SE:6:SER:O	44:SE:7:ILE:HD13	1.95	0.66
44:SE:56:THR:HA	44:TE:285:GLN:HE21	1.60	0.66
44:SG:109:THR:HG22	44:SG:110:ILE:HG23	1.77	0.66
45:SH:294:PHE:CD2	45:SH:333:VAL:HG11	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:320:ARG:O	44:SI:374:ALA:N	2.28	0.66
45:SJ:112:LEU:O	45:SJ:112:LEU:HD23	1.94	0.66
44:SK:70:LEU:HD13	44:SK:110:ILE:HD12	1.75	0.66
44:SK:274:PRO:HG3	44:SK:286:LEU:HD12	1.78	0.66
45:SN:46:ARG:NH2	45:SN:48:ASN:HB3	2.09	0.66
45:SN:105:HIS:CG	45:SN:150:LEU:HD12	2.29	0.66
45:SN:152:ILE:HD12	45:SN:164:MET:HE1	1.76	0.66
44:TA:282:TYR:OH	44:TA:370:LYS:NZ	2.29	0.66
45:TB:100:ASN:HD22	45:TB:103:LYS:HB2	1.60	0.66
45:TD:42:LEU:HA	45:TD:45:GLU:CG	2.25	0.66
45:TF:8:GLN:CD	45:TF:17:GLY:HA3	2.16	0.66
44:TG:107:HIS:HE2	44:TG:155:GLU:CD	1.99	0.66
44:TG:200:VAL:CG2	44:TG:256:GLN:HB3	2.25	0.66
45:TH:257:LEU:CD1	45:TH:314:SER:HB2	2.21	0.66
45:TL:144:GLY:N	48:TL:501:GDP:O1B	2.29	0.66
45:TL:331:LEU:HA	45:TL:334:GLN:HG2	1.76	0.66
44:TM:350:GLY:HA2	45:TN:179:VAL:HG11	1.76	0.66
45:TN:135:ILE:HG13	45:TN:152:ILE:CD1	2.26	0.66
45:TN:318:ARG:HB3	45:TN:364:ALA:O	1.96	0.66
44:UA:141:VAL:HG23	44:UA:190:SER:OG	1.95	0.66
45:UB:173:PRO:CG	45:UB:380:ARG:HD3	2.24	0.66
45:UD:242:PHE:CE1	45:UD:356:ILE:HG21	2.29	0.66
44:UE:2:ARG:HA	44:UE:131:GLY:O	1.95	0.66
45:UF:4:ILE:HD11	45:UF:134:GLN:OE1	1.96	0.66
45:UF:103:LYS:HA	45:UF:107:THR:CG2	2.23	0.66
44:UG:434:GLU:O	44:UG:437:ILE:HG12	1.95	0.66
44:UI:261:PRO:HG2	44:UI:313:MET:SD	2.36	0.66
44:UK:307:PRO:HD2	44:UK:308:ARG:N	2.10	0.66
45:UL:245:GLN:NE2	45:UL:355:ASP:OD1	2.29	0.66
45:UL:256:ASN:OD1	44:UM:182:VAL:HG12	1.95	0.66
44:UM:53:PHE:CE2	44:UM:63:PRO:HG3	2.31	0.66
44:UM:268:MET:HG3	44:UM:380:ASN:CB	2.26	0.66
45:VB:21:TRP:CZ2	45:VB:63:ALA:HB2	2.30	0.66
45:VB:314:SER:OG	45:VB:368:VAL:HB	1.96	0.66
45:VB:358:PRO:HG2	45:VB:364:ALA:CB	2.25	0.66
45:VD:156:ARG:NH1	45:VD:160:PRO:HA	2.10	0.66
45:VD:314:SER:HB2	45:VD:350:LYS:HB3	1.77	0.66
45:VH:415:MET:O	45:VH:419:VAL:HG23	1.96	0.66
44:VK:141:VAL:HG12	44:VK:171:ILE:O	1.95	0.66
45:VL:240:LEU:O	45:VL:240:LEU:HD23	1.95	0.66
45:VL:323:THR:O	45:VL:326:VAL:N	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:58:ARG:NH2	45:WB:83:GLN:OE1	2.28	0.66
44:WC:3:GLU:O	44:WC:133:GLN:N	2.23	0.66
45:WD:99:ASN:HB3	45:WD:180:VAL:CG1	2.26	0.66
44:WG:268:MET:HB3	44:WG:380:ASN:HB2	1.77	0.66
45:WH:151:LEU:O	45:WH:155:VAL:HG23	1.96	0.66
45:WJ:237:THR:HG23	45:WJ:241:ARG:NH2	2.05	0.66
44:WK:100:ALA:HB1	45:WL:252:LYS:HA	1.77	0.66
45:WL:283:ALA:O	45:WL:288:GLU:HG3	1.95	0.66
45:WN:123:GLU:O	45:WN:126:GLY:N	2.28	0.66
26:1R:88:TYR:CE2	44:MC:35:GLN:HG3	2.31	0.66
13:1T:132:PRO:HD3	44:MC:123:ARG:HH12	1.60	0.66
29:2F:73:HIS:HB3	45:HF:306:ARG:NH2	2.10	0.66
24:2O:180:MET:HG3	45:VL:276:ARG:HH12	1.59	0.66
6:3E:119:ASP:C	35:6R:579:ASN:HD22	1.84	0.66
35:5R:287:ILE:HD13	35:5R:304:LEU:HD13	1.78	0.66
35:6R:417:TYR:CZ	44:EM:372:MET:CE	2.79	0.66
43:8P:58:UNK:O	43:8P:62:UNK:N	2.28	0.66
43:8P:79:UNK:O	43:8P:83:UNK:N	2.28	0.66
44:AA:70:LEU:HD13	44:AA:110:ILE:HD12	1.76	0.66
44:AE:224:TYR:CZ	45:AF:323:THR:HG21	2.31	0.66
44:AE:240:ALA:HB2	44:AE:320:ARG:NH1	2.11	0.66
44:AE:247:ALA:HB2	44:AE:357:TYR:OH	1.95	0.66
45:AF:415:MET:O	45:AF:419:VAL:HG23	1.94	0.66
45:AH:91:VAL:CG2	45:AH:116:VAL:HG22	2.26	0.66
45:AH:173:PRO:CG	45:AH:380:ARG:HD3	2.26	0.66
44:AK:102:ASN:O	44:AK:105:ARG:HB2	1.96	0.66
45:AL:186:THR:HA	45:AL:415:MET:CE	2.25	0.66
45:AN:330:MET:HA	45:AN:333:VAL:HG12	1.75	0.66
44:BA:203:MET:SD	44:BA:384:ILE:HG12	2.36	0.66
44:BG:268:MET:HG3	44:BG:378:ILE:HG22	1.77	0.66
44:BI:296:PHE:HE1	44:BI:335:ILE:HG21	1.60	0.66
45:BL:294:PHE:CE2	45:BL:333:VAL:HG11	2.31	0.66
44:BM:262:TYR:HD2	44:BM:265:ILE:HD12	1.61	0.66
45:BN:267:MET:HG2	45:BN:369:GLY:O	1.96	0.66
44:CE:356:ASN:OD1	44:CE:357:TYR:N	2.26	0.66
45:CF:345:ILE:HA	44:CG:398:MET:CE	2.23	0.66
44:CK:200:VAL:HG13	44:CK:268:MET:CE	2.26	0.66
44:DA:88:HIS:ND1	44:DA:90:GLU:HG2	2.10	0.66
45:DJ:348:ASN:HA	44:DK:181:VAL:HG12	1.76	0.66
44:DK:386:GLU:O	44:DK:389:SER:OG	2.10	0.66
44:DM:242:LEU:HD11	44:DM:252:ILE:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:6:HIS:O	45:DN:63:ALA:HA	1.95	0.66
44:EC:258:ASN:ND2	44:EC:352:LYS:HD3	2.10	0.66
45:ED:7:ILE:HB	45:ED:135:ILE:HD12	1.78	0.66
45:ED:310:TYR:HB2	45:ED:341:PHE:CD1	2.30	0.66
44:EE:195:LEU:HD12	44:EE:266:HIS:NE2	2.11	0.66
45:EF:8:GLN:O	45:EF:66:MET:HG2	1.96	0.66
45:EF:326:VAL:HG11	45:EF:353:ILE:CD1	2.19	0.66
44:EI:244:PHE:CZ	44:EI:358:GLN:HG2	2.30	0.66
45:EL:208:TYR:CE1	45:EL:225:LEU:HD11	2.31	0.66
44:EM:2:ARG:HH21	44:EM:243:ARG:HA	1.61	0.66
44:EM:275:ILE:HG23	44:EM:368:LEU:HD21	1.76	0.66
45:EN:73:MET:CE	45:EN:90:PHE:HB3	2.25	0.66
45:EN:86:ARG:HE	45:EN:87:PRO:HD2	1.59	0.66
45:EN:127:CYS:SG	45:EN:130:LEU:HB2	2.36	0.66
44:FC:200:VAL:HG13	44:FC:268:MET:CE	2.25	0.66
44:FE:66:VAL:HG11	44:FE:122:ILE:HD11	1.78	0.66
45:FH:266:PHE:CE1	45:FH:370:ASN:HB2	2.31	0.66
44:FI:224:TYR:HA	44:FI:227:LEU:HD12	1.77	0.66
44:FK:372:MET:CE	44:FK:373:ARG:HH11	2.09	0.66
45:FL:178:THR:HB	45:FL:181:GLU:CG	2.20	0.66
45:FN:375:GLN:OE1	45:FN:423:GLN:HB3	1.95	0.66
44:GA:71:GLU:OE1	44:GA:73:THR:HB	1.96	0.66
45:GB:3:GLU:HG3	45:GB:62:ARG:NH1	2.10	0.66
45:GB:167:PHE:HB3	45:GB:200:MET:HB2	1.77	0.66
44:GC:101:ASN:HA	44:GC:144:GLY:HA3	1.77	0.66
44:GE:246:GLY:HA2	44:GE:357:TYR:CE2	2.31	0.66
45:GF:36:TYR:CD2	45:GF:44:LEU:HD11	2.31	0.66
45:GF:420:SER:O	45:GF:423:GLN:HG3	1.95	0.66
44:GI:287:SER:O	44:GI:291:ILE:HG23	1.96	0.66
44:GI:296:PHE:HD2	44:GI:341:ILE:HD13	1.61	0.66
44:GK:66:VAL:HG11	44:GK:122:ILE:CD1	2.25	0.66
44:GM:172:TYR:HD2	44:GM:203:MET:HG3	1.61	0.66
45:GN:139:LEU:CD1	45:GN:185:ALA:HA	2.23	0.66
45:HB:180:VAL:HG22	45:HB:183:TYR:HB2	1.77	0.66
45:HF:140:GLY:O	45:HF:178:THR:HG21	1.95	0.66
45:HF:309:ARG:H	45:HF:372:THR:HG22	1.61	0.66
45:HH:8:GLN:NE2	45:HH:17:GLY:HA3	2.11	0.66
45:HH:99:ASN:HA	45:HH:142:GLY:HA3	1.77	0.66
45:HH:193:VAL:O	45:HH:264:HIS:NE2	2.29	0.66
45:IB:64:ILE:HG13	45:IB:89:ASN:ND2	2.11	0.66
45:IB:139:LEU:HD22	45:IB:170:VAL:HG12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IC:112:LYS:O	44:IC:115:VAL:HG12	1.95	0.66
44:IC:221:ARG:HE	45:ID:321:MET:HE3	1.61	0.66
44:IE:265:ILE:HG23	44:IE:432:TYR:HE1	1.59	0.66
45:IF:178:THR:HB	45:IF:181:GLU:CG	2.26	0.66
44:IG:398:MET:CE	45:IH:346:PRO:HD2	2.25	0.66
45:IH:101:TRP:HZ3	45:IH:187:LEU:HB3	1.58	0.66
45:IH:240:LEU:O	45:IH:240:LEU:HD23	1.96	0.66
45:IH:251:ARG:O	45:IH:255:VAL:HG23	1.95	0.66
44:IK:54:SER:HB3	44:IK:64:ARG:CZ	2.26	0.66
44:IM:434:GLU:O	44:IM:437:ILE:HG12	1.95	0.66
45:IN:1:MET:O	45:IN:2:ARG:HG2	1.95	0.66
44:JA:286:LEU:O	44:JA:373:ARG:NH1	2.28	0.66
45:JB:169:VAL:HG22	45:JB:202:ILE:CG2	2.25	0.66
45:JB:198:GLU:HG2	45:JB:266:PHE:HE2	1.61	0.66
44:JC:288:VAL:CG1	44:JC:327:ASP:HB3	2.25	0.66
45:JD:289:LEU:HD11	45:JD:363:MET:HG3	1.77	0.66
45:JF:66:MET:HG2	45:JF:147:MET:HE2	1.77	0.66
45:JF:235:GLY:HA3	45:JF:366:THR:HG21	1.76	0.66
44:JG:88:HIS:CE1	44:JG:90:GLU:HG2	2.30	0.66
45:JJ:304:ASP:OD2	45:JJ:306:ARG:NH1	2.28	0.66
44:JM:21:TRP:HZ2	44:JM:65:ALA:HB2	1.61	0.66
44:JM:175:PRO:HG2	44:JM:176:GLN:OE1	1.95	0.66
45:JN:215:LEU:HA	45:JN:275:SER:CB	2.26	0.66
44:KC:90:GLU:HG3	44:KC:121:ARG:NH1	2.11	0.66
45:KH:65:LEU:HD12	45:KH:90:PHE:CE2	2.31	0.66
44:KI:87:PHE:HD2	44:KI:92:LEU:HD11	1.60	0.66
45:KJ:230:SER:HA	45:KJ:233:MET:CG	2.25	0.66
44:KK:189:LEU:HD11	44:KK:418:PHE:CE1	2.22	0.66
44:KM:274:PRO:HD2	44:KM:274:PRO:O	1.94	0.66
44:KM:275:ILE:HA	44:KM:368:LEU:CD1	2.26	0.66
45:KN:40:SER:HB3	45:KN:43:GLN:HG3	1.78	0.66
44:LE:268:MET:SD	44:LE:378:ILE:HG22	2.36	0.66
44:LG:55:GLU:HG3	44:LG:57:GLY:H	1.60	0.66
45:LH:12:CYS:HB2	48:LH:501:GDP:C8	2.31	0.66
45:LH:73:MET:SD	45:LH:92:PHE:HB3	2.36	0.66
45:LJ:21:TRP:CZ3	45:LJ:61:PRO:HB3	2.30	0.66
45:LL:8:GLN:NE2	45:LL:65:LEU:HG	2.09	0.66
44:LM:105:ARG:HG2	44:LM:109:THR:HG21	1.77	0.66
45:LN:286:VAL:N	45:LN:287:PRO:HD2	2.09	0.66
45:MB:68:LEU:HD23	45:MB:97:ALA:HB2	1.78	0.66
44:MC:224:TYR:CE2	45:MD:246:LEU:HD11	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:88:HIS:ND1	44:ME:90:GLU:HG2	2.09	0.66
45:MJ:167:PHE:CE2	45:MJ:233:MET:HG2	2.30	0.66
45:MJ:274:THR:HG23	45:MJ:276:ARG:NH2	2.10	0.66
45:ML:67:ASP:CB	45:ML:72:THR:HG21	2.26	0.66
45:ML:207:LEU:HB3	45:ML:225:LEU:HG	1.77	0.66
45:NB:317:PHE:CE2	45:NB:326:VAL:HG22	2.31	0.66
44:NE:276:ILE:HG21	44:NE:283:HIS:CD2	2.30	0.66
44:NG:91:GLN:HE21	44:NG:121:ARG:HH22	1.41	0.66
45:NJ:60:VAL:HG23	45:NJ:84:LEU:O	1.96	0.66
45:NL:199:CYS:O	45:NL:265:PHE:HA	1.96	0.66
44:NM:320:ARG:HB2	44:NM:358:GLN:O	1.96	0.66
44:OA:133:GLN:HB2	44:OA:252:ILE:HD11	1.76	0.66
44:OA:331:SER:O	44:OA:335:ILE:HG12	1.96	0.66
44:OC:288:VAL:HG22	44:OC:373:ARG:CD	2.24	0.66
45:OD:189:VAL:HG11	45:OD:415:MET:CE	2.26	0.66
44:OE:183:GLU:HG2	44:OE:184:PRO:HD3	1.77	0.66
45:OF:60:VAL:HG23	45:OF:84:LEU:O	1.96	0.66
44:PA:100:ALA:HB1	45:PB:252:LYS:HB2	1.77	0.66
44:PA:275:ILE:HA	44:PA:368:LEU:CD1	2.26	0.66
45:PB:421:GLU:HA	45:PB:424:GLN:HG2	1.78	0.66
45:PF:260:PHE:HB3	45:PF:261:PRO:HD2	1.76	0.66
45:PH:406:MET:HA	45:PH:409:THR:HB	1.77	0.66
44:PI:324:VAL:HG12	44:PI:326:LYS:HG3	1.77	0.66
44:PK:9:VAL:O	44:PK:139:ASN:HA	1.96	0.66
44:PK:91:GLN:HG3	44:PK:92:LEU:HD22	1.77	0.66
44:PK:254:GLU:HG2	45:PN:98:GLY:CA	2.25	0.66
44:PM:155:GLU:O	44:PM:159:VAL:HG12	1.95	0.66
44:PM:171:ILE:HG23	44:PM:204:LEU:O	1.95	0.66
45:PN:403:MET:CE	45:PN:407:GLU:HB2	2.26	0.66
44:QA:22:GLU:HG3	44:QA:83:TYR:CE2	2.31	0.66
44:QC:31:GLN:NE2	44:QC:35:GLN:H	1.93	0.66
44:QC:268:MET:HB2	44:QC:380:ASN:HA	1.78	0.66
44:QC:425:LEU:O	44:QC:429:GLU:HG3	1.96	0.66
44:QC:434:GLU:O	44:QC:437:ILE:HG12	1.94	0.66
45:QD:164:MET:HG3	45:QD:197:ASP:H	1.61	0.66
45:QD:395:LEU:HD12	45:QD:398:TYR:HB2	1.77	0.66
45:QF:107:THR:HG21	45:QF:401:GLU:OE1	1.96	0.66
44:QI:23:LEU:HB2	44:QI:229:ARG:NH2	2.11	0.66
45:QJ:68:LEU:HD23	45:QJ:97:ALA:HB2	1.76	0.66
44:RA:247:ALA:HB3	44:RA:355:ILE:HG22	1.77	0.66
44:RC:226:ASN:O	44:RC:230:LEU:HD23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:60:LYS:HD2	44:RE:85:GLN:HE22	1.59	0.66
45:RF:374:ILE:HG12	45:RF:422:TYR:OH	1.95	0.66
44:RG:102:ASN:OD1	44:RG:105:ARG:N	2.27	0.66
44:RG:189:LEU:HD11	44:RG:418:PHE:HE1	1.61	0.66
44:RI:71:GLU:OE1	44:RI:73:THR:N	2.27	0.66
44:RK:67:PHE:C	44:RK:68:LEU:HD12	2.15	0.66
44:RM:3:GLU:OE2	44:RM:131:GLY:N	2.29	0.66
44:RM:229:ARG:NH1	44:RM:363:VAL:HG11	2.11	0.66
44:SA:248:LEU:CD2	44:SA:353:VAL:HG13	2.25	0.66
45:SB:70:PRO:O	45:SB:74:ASP:N	2.27	0.66
45:SD:86:ARG:HH12	45:TD:281:TYR:HB3	1.61	0.66
45:SD:172:SER:O	45:SD:380:ARG:NH2	2.29	0.66
44:SE:188:ILE:HG13	44:SE:395:PHE:CB	2.23	0.66
44:SE:275:ILE:CD1	44:SE:368:LEU:HD11	2.23	0.66
44:SI:274:PRO:HB2	44:SI:276:ILE:CD1	2.26	0.66
44:SI:405:VAL:HG12	44:SI:409:VAL:CG2	2.25	0.66
45:SJ:97:ALA:HA	45:SJ:103:LYS:HD2	1.78	0.66
45:SL:191:GLN:OE1	45:SL:191:GLN:N	2.22	0.66
45:SL:251:ARG:O	45:SL:255:VAL:HG23	1.95	0.66
45:SN:25:SER:HG	45:SN:51:TYR:HH	1.40	0.66
45:SN:101:TRP:CE3	45:SN:187:LEU:HD13	2.31	0.66
45:TD:25:SER:O	45:TD:30:ILE:N	2.27	0.66
45:TD:184:ASN:OD1	45:TD:185:ALA:N	2.29	0.66
44:TE:226:ASN:ND2	44:TE:229:ARG:HH12	1.93	0.66
44:TE:289:ALA:O	44:TE:292:THR:HG22	1.96	0.66
45:TF:274:THR:HG21	45:TF:279:GLN:HG3	1.77	0.66
45:TL:270:PHE:HD2	45:TL:273:LEU:HD11	1.60	0.66
45:TN:372:THR:CG2	45:TN:423:GLN:HA	2.23	0.66
44:UA:115:VAL:CG2	44:UA:156:ARG:HD2	2.25	0.66
44:UA:195:LEU:HD11	44:UA:264:ARG:HH12	1.60	0.66
44:UG:328:VAL:O	44:UG:332:ILE:HG12	1.96	0.66
44:UI:325:PRO:HG3	44:UI:355:ILE:HD13	1.77	0.66
44:UK:144:GLY:N	46:UK:501:GTP:O3B	2.27	0.66
45:UL:208:TYR:HB3	45:UL:212:PHE:HE2	1.60	0.66
45:UL:288:GLU:O	45:UL:291:GLN:HG3	1.94	0.66
45:UN:330:MET:O	45:UN:334:GLN:HG2	1.96	0.66
45:UN:332:ASN:O	45:UN:336:LYS:HE2	1.96	0.66
45:VB:69:GLU:OE1	45:VB:71:GLY:N	2.28	0.66
44:VC:305:CYS:SG	44:VC:387:VAL:HG13	2.36	0.66
44:VC:311:LYS:HD2	44:VC:342:GLN:HG3	1.77	0.66
45:VD:3:GLU:N	45:VD:3:GLU:OE1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:1:MET:HE1	45:VH:94:GLN:HG2	1.77	0.66
44:VE:268:MET:HB2	44:VE:379:SER:O	1.96	0.66
45:VF:113:ILE:CD1	45:VF:150:LEU:HD22	2.26	0.66
45:VF:165:GLU:OE2	45:VF:250:LEU:HB3	1.96	0.66
45:VF:291:GLN:HE22	45:VF:292:GLN:HG3	1.59	0.66
44:VG:54:SER:CB	44:VG:64:ARG:HE	2.08	0.66
45:VL:117:LEU:O	45:VL:121:ARG:N	2.28	0.66
44:VM:395:PHE:HA	44:VM:398:MET:HE3	1.76	0.66
45:WB:25:SER:O	45:WB:29:GLY:N	2.28	0.66
44:WE:268:MET:HB3	44:WE:380:ASN:HB2	1.78	0.66
45:WF:314:SER:OG	45:WF:368:VAL:O	2.13	0.66
44:WI:268:MET:HB2	44:WI:379:SER:O	1.94	0.66
45:WJ:68:LEU:CD2	45:WJ:147:MET:HG3	2.26	0.66
45:WJ:178:THR:OG1	45:WJ:180:VAL:HG12	1.96	0.66
44:WK:145:THR:H	46:WK:501:GTP:PG	2.18	0.66
44:WK:274:PRO:HB2	44:WK:276:ILE:CD1	2.25	0.66
45:WL:2:ARG:HB2	45:WL:131:GLN:OE1	1.96	0.66
45:WL:6:HIS:NE2	45:WL:8:GLN:OE1	2.24	0.66
13:1T:100:ARG:NH2	44:MC:414:GLU:OE2	2.28	0.66
26:2R:404:ARG:NH2	44:DG:57:GLY:O	2.28	0.66
12:2S:16:SER:HB3	45:WJ:92:PHE:CE1	2.31	0.66
26:3R:232:LEU:HD12	45:BN:77:ARG:NE	2.10	0.66
12:3S:277:GLN:CG	11:6Q:37:ILE:HG23	2.25	0.66
35:4R:301:PRO:HG3	45:CF:74:ASP:HB3	1.76	0.66
36:4S:206:TYR:OH	45:WD:123:GLU:OE1	2.12	0.66
37:5D:42:SER:N	44:KK:261:PRO:HG2	2.11	0.66
39:5J:95:LEU:O	39:5J:99:THR:HG23	1.95	0.66
35:5R:388:TYR:OH	35:5R:392:GLY:O	2.13	0.66
40:6F:10:THR:HA	44:IE:96:LYS:HD2	1.77	0.66
41:6G:138:LYS:HE3	44:VG:308:ARG:HG2	1.76	0.66
11:6Q:96:ASP:OD2	11:6Q:147:ASN:ND2	2.28	0.66
35:7R:189:GLU:O	35:7R:192:VAL:HG22	1.96	0.66
35:7R:547:GLU:HA	35:7R:550:VAL:HG12	1.78	0.66
45:AB:139:LEU:HD13	45:AB:168:SER:CB	2.25	0.66
45:AB:262:ARG:NH2	45:AB:421:GLU:HG2	2.10	0.66
45:AF:391:ARG:HA	45:AF:391:ARG:NH1	2.10	0.66
45:AH:40:SER:OG	45:AH:43:GLN:HG3	1.96	0.66
45:AH:100:ASN:ND2	45:AH:401:GLU:OE2	2.29	0.66
45:AH:286:VAL:HG22	45:AH:321:MET:HE3	1.76	0.66
44:AI:102:ASN:HB3	44:AI:105:ARG:HG3	1.77	0.66
44:AI:132:LEU:HD11	44:AI:135:PHE:HE2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:1:MET:O	45:AN:2:ARG:HG2	1.96	0.66
44:BA:372:MET:HE2	44:BA:372:MET:HA	1.76	0.66
45:BD:421:GLU:HA	45:BD:424:GLN:HG2	1.76	0.66
44:BE:70:LEU:HD13	44:BE:110:ILE:CD1	2.26	0.66
45:BH:178:THR:HG22	45:BH:180:VAL:H	1.60	0.66
45:BH:318:ARG:HG2	45:BH:357:PRO:C	2.16	0.66
45:BL:12:CYS:SG	45:BL:138:SER:HB2	2.36	0.66
45:CF:65:LEU:HD22	45:CF:90:PHE:CE1	2.30	0.66
45:CF:112:LEU:O	45:CF:112:LEU:HD23	1.94	0.66
45:CF:187:LEU:HD11	45:CF:408:PHE:CE1	2.31	0.66
44:CG:202:VAL:HA	44:CG:268:MET:O	1.95	0.66
45:CH:187:LEU:HD11	45:CH:408:PHE:CZ	2.31	0.66
44:CI:105:ARG:O	44:CI:110:ILE:HG22	1.96	0.66
44:CI:221:ARG:O	44:CI:221:ARG:HG3	1.94	0.66
45:CL:262:ARG:NH1	45:CL:421:GLU:OE1	2.28	0.66
44:CM:326:LYS:HE2	45:CN:219:THR:HG22	1.78	0.66
45:CN:83:GLN:O	45:DN:281:TYR:OH	2.10	0.66
44:DA:319:TYR:N	44:DA:354:GLY:O	2.25	0.66
44:DC:2:ARG:HD2	44:DC:242:LEU:O	1.96	0.66
45:DD:1:MET:O	45:DD:2:ARG:HD3	1.94	0.66
44:DG:119:LEU:CD2	44:DG:156:ARG:HD3	2.10	0.66
45:DH:267:MET:CE	45:DH:371:SER:HB3	2.25	0.66
45:DJ:118:ASP:HA	45:DJ:121:ARG:HH12	1.59	0.66
44:DK:51:THR:HG22	44:DK:52:PHE:CD1	2.29	0.66
45:DL:314:SER:HB3	45:DL:368:VAL:HG13	1.78	0.66
45:DL:377:MET:H	45:DL:379:LYS:HE2	1.60	0.66
44:DM:295:ALA:HB2	44:DM:375:VAL:HG13	1.78	0.66
45:DN:164:MET:N	45:DN:197:ASP:OD2	2.26	0.66
45:DN:175:VAL:HG22	45:DN:205:GLU:OE1	1.95	0.66
44:EA:68:LEU:HD21	44:EA:118:CYS:SG	2.35	0.66
44:EA:242:LEU:CD1	44:EA:252:ILE:HG13	2.25	0.66
45:EB:7:ILE:HG23	45:EB:66:MET:HE3	1.78	0.66
45:ED:116:VAL:HA	45:ED:119:VAL:CG1	2.22	0.66
45:ED:289:LEU:HD13	45:ED:365:VAL:HG21	1.78	0.66
44:EE:243:ARG:HG3	44:EE:244:PHE:CE2	2.30	0.66
44:EE:316:SER:OG	44:EE:378:ILE:HB	1.96	0.66
44:EI:91:GLN:HG3	44:EI:92:LEU:HD12	1.77	0.66
44:EI:316:SER:HA	44:EI:352:LYS:HB3	1.78	0.66
44:EK:102:ASN:OD1	44:EK:105:ARG:N	2.26	0.66
44:EM:234:VAL:HA	44:EM:237:SER:OG	1.96	0.66
45:EN:374:ILE:HD12	45:EN:378:PHE:HE2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:259:LEU:HB3	44:FA:268:MET:CE	2.26	0.66
44:FA:431:ASP:O	44:FA:435:VAL:HG23	1.96	0.66
45:FB:309:ARG:NH1	45:FB:311:LEU:HD23	2.10	0.66
45:FF:8:GLN:HE21	45:FF:65:LEU:HG	1.61	0.66
45:FF:302:ALA:HB3	45:FF:377:MET:HE1	1.77	0.66
45:FF:360:GLY:C	45:FF:361:LEU:HD12	2.16	0.66
44:FG:7:ILE:CD1	44:FG:122:ILE:HD13	2.23	0.66
44:FG:311:LYS:HB2	44:FG:382:THR:HG21	1.76	0.66
45:FL:74:ASP:HA	45:FL:77:ARG:NH1	2.10	0.66
45:FL:216:LYS:HG3	45:FL:275:SER:OG	1.96	0.66
44:FM:91:GLN:O	44:FM:93:ILE:HD12	1.94	0.66
44:FM:384:ILE:O	44:FM:387:VAL:HG22	1.96	0.66
44:GA:26:LEU:HD21	44:GA:364:PRO:HD3	1.78	0.66
45:GB:238:CYS:HB2	45:GB:318:ARG:CZ	2.25	0.66
45:GD:217:LEU:HD11	45:GD:220:PRO:HB3	1.78	0.66
45:GF:203:ASP:OD2	45:GF:302:ALA:N	2.18	0.66
44:GI:11:GLN:N	46:GI:501:GTP:O2B	2.29	0.66
44:GK:88:HIS:HB3	44:GK:91:GLN:HG2	1.78	0.66
44:GK:320:ARG:HH21	44:GK:360:PRO:HB3	1.61	0.66
45:HB:183:TYR:OH	45:HB:393:ALA:O	2.12	0.66
44:HC:183:GLU:HG2	44:HC:184:PRO:HD3	1.77	0.66
45:HD:289:LEU:HD11	45:HD:363:MET:CB	2.25	0.66
44:HK:60:LYS:HD3	44:IK:283:HIS:CD2	2.31	0.66
44:HM:66:VAL:HG23	44:HM:91:GLN:O	1.96	0.66
45:HN:377:MET:O	45:HN:380:ARG:HG2	1.96	0.66
45:IB:404:ASP:N	45:IB:407:GLU:OE2	2.25	0.66
44:IC:270:SER:O	44:IC:302:MET:HB2	1.94	0.66
44:IC:271:SER:OG	44:IC:301:MET:HA	1.96	0.66
45:ID:203:ASP:O	45:ID:207:LEU:HG	1.96	0.66
44:IE:279:GLU:C	44:IE:280:LYS:HD3	2.15	0.66
45:IF:31:ASP:HB2	45:IF:37:HIS:CD2	2.30	0.66
45:IJ:316:LEU:HD23	45:IJ:352:SER:HB2	1.77	0.66
44:IK:326:LYS:HE2	45:IN:219:THR:HG22	1.75	0.66
45:IL:174:LYS:HE2	45:IL:205:GLU:OE1	1.93	0.66
45:JB:156:ARG:NH1	45:JB:160:PRO:HA	2.11	0.66
45:JB:325:GLU:O	45:JB:328:GLU:HG2	1.94	0.66
45:JF:130:LEU:HD12	45:JF:131:GLN:H	1.60	0.66
44:JI:188:ILE:HG21	44:JI:395:PHE:CE2	2.31	0.66
44:JI:265:ILE:HG23	44:JI:432:TYR:CE1	2.30	0.66
45:JJ:177:ASP:HB2	45:JJ:181:GLU:OE2	1.94	0.66
44:JM:265:ILE:HD12	44:JM:432:TYR:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:14:ASN:OD1	45:JN:15:GLN:N	2.29	0.66
44:KA:21:TRP:CZ2	44:KA:65:ALA:HB2	2.30	0.66
44:KA:291:ILE:HD13	44:KA:373:ARG:HD3	1.76	0.66
45:KF:47:ILE:HD13	45:KF:59:TYR:CE2	2.31	0.66
45:KF:222:TYR:HD1	45:KF:225:LEU:HD12	1.60	0.66
44:KG:292:THR:HG21	44:KG:331:SER:OG	1.95	0.66
44:KM:288:VAL:HB	44:KM:373:ARG:HD2	1.78	0.66
45:KN:149:THR:CG2	45:KN:188:SER:HB2	2.20	0.66
44:LC:269:LEU:HD23	44:LC:269:LEU:H	1.61	0.66
44:LI:108:TYR:HA	44:LI:112:LYS:NZ	2.10	0.66
44:LI:275:ILE:HD11	44:LI:368:LEU:HD22	1.78	0.66
44:LK:289:ALA:O	44:LK:293:ASN:ND2	2.23	0.66
44:LM:119:LEU:HD22	44:LM:122:ILE:HD11	1.78	0.66
45:LN:68:LEU:HD12	45:LN:143:THR:HB	1.76	0.66
45:MB:154:LYS:HE3	45:MB:154:LYS:CA	2.26	0.66
45:MF:3:GLU:HG3	45:MF:62:ARG:HH22	1.61	0.66
45:MH:139:LEU:CD2	45:MH:168:SER:HB3	2.26	0.66
45:MH:325:GLU:HA	45:MH:328:GLU:HG2	1.78	0.66
44:MI:268:MET:HG3	44:MI:378:ILE:HG22	1.77	0.66
44:MM:268:MET:HG3	44:MM:378:ILE:HG22	1.76	0.66
45:MN:62:ARG:NH1	45:MN:127:CYS:HB3	2.11	0.66
44:NC:6:SER:OG	44:NC:64:ARG:O	2.06	0.66
44:NC:188:ILE:HG22	44:NC:421:ALA:HB1	1.76	0.66
44:NC:222:PRO:HD2	45:ND:324:LYS:HD3	1.77	0.66
44:NC:222:PRO:HD2	45:ND:324:LYS:HZ2	1.61	0.66
44:NE:301:MET:HG3	44:NE:303:ALA:H	1.61	0.66
44:NK:257:THR:HA	45:NN:397:TRP:CZ2	2.30	0.66
45:NL:130:LEU:HD21	45:NL:133:PHE:CE1	2.31	0.66
44:NM:145:THR:HG21	46:NM:501:GTP:O3G	1.96	0.66
45:OB:48:ASN:O	45:OB:62:ARG:NH2	2.28	0.66
44:OC:271:SER:OG	44:OC:301:MET:HA	1.95	0.66
44:OC:320:ARG:HD3	44:OC:360:PRO:HG3	1.76	0.66
45:OD:333:VAL:HA	45:OD:336:LYS:HB2	1.78	0.66
45:OF:77:ARG:HD3	45:OF:90:PHE:HE2	1.59	0.66
45:OF:185:ALA:O	45:OF:188:SER:OG	2.07	0.66
44:OI:311:LYS:N	44:OI:382:THR:OG1	2.29	0.66
44:OK:385:ALA:HB2	44:OK:432:TYR:CD2	2.30	0.66
44:OK:386:GLU:O	44:OK:390:ARG:N	2.25	0.66
45:ON:299:MET:CE	45:ON:305:PRO:HG3	2.26	0.66
44:PA:104:ALA:HB3	44:PA:411:GLU:CB	2.26	0.66
44:PC:252:ILE:HA	44:PC:255:PHE:CD2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:214:THR:HG22	45:PD:297:LYS:NZ	2.11	0.66
45:PD:240:LEU:HD23	45:PD:240:LEU:O	1.95	0.66
45:PF:130:LEU:HD21	45:PF:133:PHE:CE1	2.30	0.66
44:PI:89:PRO:HD3	44:QI:280:LYS:HE3	1.77	0.66
44:PI:179:THR:O	45:PJ:350:LYS:HA	1.95	0.66
44:PI:234:VAL:HG23	44:PI:376:CYS:SG	2.36	0.66
44:PK:252:ILE:HD12	44:PK:255:PHE:HD2	1.60	0.66
45:QB:121:ARG:O	45:QB:125:GLU:N	2.18	0.66
45:QB:265:PHE:CE2	45:QB:418:LEU:HD21	2.30	0.66
44:QC:119:LEU:HA	44:QC:122:ILE:CG1	2.26	0.66
44:QC:286:LEU:HB2	44:QC:373:ARG:HH21	1.59	0.66
44:QE:89:PRO:HD3	44:RE:280:LYS:HD2	1.78	0.66
45:QF:130:LEU:HD12	45:QF:130:LEU:O	1.95	0.66
45:QF:270:PHE:HD2	45:QF:273:LEU:HD21	1.60	0.66
45:QF:382:ALA:HB2	45:QF:415:MET:HE2	1.78	0.66
45:QH:185:ALA:O	45:QH:188:SER:OG	2.12	0.66
45:QJ:404:ASP:OD1	45:QJ:406:MET:N	2.29	0.66
44:QM:67:PHE:HB2	44:QM:92:LEU:HA	1.78	0.66
44:QM:175:PRO:HG2	44:QM:304:LYS:HG3	1.77	0.66
45:QN:168:SER:N	45:QN:200:MET:O	2.24	0.66
44:RA:26:LEU:CD2	44:RA:363:VAL:HA	2.26	0.66
44:RA:257:THR:HG22	45:RB:397:TRP:CH2	2.30	0.66
45:RD:68:LEU:HG	45:RD:96:GLY:HA2	1.76	0.66
45:RD:132:GLY:HA3	45:RD:163:ILE:HG12	1.78	0.66
44:RE:186:ASN:OD1	44:RE:187:SER:N	2.29	0.66
44:RE:200:VAL:HG13	44:RE:268:MET:HE1	1.77	0.66
44:RE:348:PRO:HG3	45:RF:384:GLN:HE21	1.61	0.66
44:RG:104:ALA:HA	44:RG:413:MET:CE	2.25	0.66
45:RJ:113:ILE:HD12	45:RJ:116:VAL:CG1	2.24	0.66
45:RJ:133:PHE:N	45:RJ:163:ILE:O	2.22	0.66
45:RJ:173:PRO:CG	45:RJ:380:ARG:HD3	2.26	0.66
45:RJ:325:GLU:CA	45:RJ:328:GLU:HG2	2.19	0.66
44:RK:2:ARG:HD2	44:RK:242:LEU:HB3	1.77	0.66
44:RK:98:ASP:OD1	44:RK:99:ALA:N	2.29	0.66
44:RK:171:ILE:HG23	44:RK:204:LEU:O	1.96	0.66
45:RL:304:ASP:OD1	45:RL:305:PRO:HD2	1.96	0.66
44:RM:13:GLY:HA2	44:RM:16:VAL:HG12	1.76	0.66
45:SB:304:ASP:OD1	45:SB:306:ARG:HG2	1.96	0.66
44:SG:157:LEU:HD13	44:SG:166:LYS:HZ1	1.59	0.66
45:SH:413:SER:O	45:SH:417:ASP:N	2.28	0.66
44:SM:3:GLU:OE2	44:SM:130:THR:HG22	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:51:TYR:CE1	45:SN:61:PRO:HG3	2.31	0.66
44:TA:298:PRO:HA	44:TA:307:PRO:HG3	1.77	0.66
45:TB:286:VAL:HG11	45:TB:325:GLU:HG2	1.77	0.66
44:TC:371:VAL:HG22	44:TC:373:ARG:H	1.61	0.66
45:TD:323:THR:HG21	44:TE:224:TYR:HD2	1.60	0.66
44:TE:4:VAL:HG23	44:TE:134:GLY:O	1.96	0.66
44:TE:47:ASP:O	44:TE:50:ASN:ND2	2.28	0.66
44:TE:272:TYR:HD2	44:TE:275:ILE:HD11	1.60	0.66
45:TF:179:VAL:O	45:TF:182:PRO:HD2	1.96	0.66
44:TG:169:PHE:CE1	44:TG:202:VAL:HG21	2.31	0.66
45:TH:165:GLU:OE2	45:TH:250:LEU:HD13	1.94	0.66
44:TI:187:SER:O	44:TI:190:SER:OG	2.12	0.66
45:TJ:248:SER:CB	45:TJ:252:LYS:HD2	2.26	0.66
45:TL:260:PHE:HB2	45:TL:263:LEU:HD13	1.78	0.66
45:TL:272:PRO:HB3	45:TL:289:LEU:CD2	2.26	0.66
45:TL:420:SER:O	45:TL:423:GLN:HG3	1.95	0.66
44:UC:7:ILE:HD11	44:UC:122:ILE:HD11	1.78	0.66
44:UC:328:VAL:HG21	44:UC:353:VAL:HG21	1.78	0.66
45:UD:252:LYS:HA	45:UD:255:VAL:CG2	2.26	0.66
44:UE:64:ARG:NH1	44:UE:129:CYS:SG	2.69	0.66
45:UF:257:LEU:HA	45:UF:312:THR:HG21	1.78	0.66
44:UG:387:VAL:HA	44:UG:390:ARG:HG2	1.77	0.66
45:UH:317:PHE:HB3	45:UH:321:MET:SD	2.36	0.66
44:UK:75:ILE:O	44:UK:78:VAL:HB	1.96	0.66
45:UL:113:ILE:CD1	45:UL:150:LEU:HB3	2.26	0.66
44:UM:141:VAL:HG23	44:UM:190:SER:OG	1.96	0.66
44:UM:327:ASP:HA	44:UM:330:ALA:HB3	1.76	0.66
45:UN:241:ARG:HB2	45:UN:241:ARG:HH11	1.60	0.66
44:VC:100:ALA:HB1	45:VD:255:VAL:CG2	2.25	0.66
44:VC:317:MET:CE	44:VC:332:ILE:HD11	2.25	0.66
44:VE:88:HIS:HB3	44:VE:91:GLN:HB2	1.78	0.66
45:VJ:222:TYR:O	45:VJ:226:ASN:ND2	2.27	0.66
45:VL:65:LEU:HB2	45:VL:90:PHE:CE1	2.31	0.66
44:WA:183:GLU:HG2	44:WA:184:PRO:HD3	1.77	0.66
44:WA:223:THR:HG23	44:WA:225:THR:H	1.59	0.66
44:WA:257:THR:HG22	45:WD:397:TRP:CZ3	2.31	0.66
44:WA:307:PRO:HB2	44:WA:312:TYR:OH	1.95	0.66
44:WC:3:GLU:HG2	44:WC:64:ARG:HH12	1.59	0.66
45:WD:151:LEU:O	45:WD:155:VAL:HG23	1.96	0.66
44:WG:404:PHE:HE1	45:WH:259:PRO:HA	1.61	0.66
44:WK:304:LYS:NZ	44:WK:387:VAL:HG12	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:167:LYS:HG2	45:FB:360:GLY:O	1.96	0.66
3:0B:288:ILE:HD11	45:KL:280:GLN:HA	1.78	0.66
6:0E:46:ASP:OD2	35:7R:380:ARG:N	2.29	0.66
22:2L:766:LYS:NZ	45:AL:41:ASP:HB3	2.10	0.66
10:2N:158:THR:HA	45:KB:227:HIS:CE1	2.31	0.66
14:2U:139:ALA:HB1	44:VG:42:ILE:HD13	1.78	0.66
16:2X:53:ILE:CD1	44:MI:279:GLU:HA	2.26	0.66
2:3A:152:LYS:HG2	35:6R:78:ILE:HG22	1.78	0.66
35:4R:301:PRO:HG3	45:CF:74:ASP:CG	2.17	0.66
37:5A:162:LEU:HD13	44:NC:370:LYS:HZ1	1.61	0.66
37:5A:163:ALA:CB	44:NC:280:LYS:HA	2.26	0.66
37:5D:34:PHE:CZ	44:KK:430:LYS:CA	2.78	0.66
37:5D:117:PRO:N	44:NM:323:VAL:HG22	2.11	0.66
41:6G:141:VAL:HB	44:VG:308:ARG:HH12	1.59	0.66
35:6R:470:PHE:O	45:EN:78:ALA:HA	1.95	0.66
45:AD:186:THR:HG21	45:AD:385:PHE:CE1	2.30	0.66
45:AF:97:ALA:HB3	45:AF:143:THR:HB	1.76	0.66
45:AF:103:LYS:HD2	45:AF:107:THR:HG21	1.78	0.66
45:AF:374:ILE:HD11	45:AF:422:TYR:CE2	2.31	0.66
44:AG:261:PRO:HA	45:AJ:394:PHE:CD1	2.31	0.66
44:AI:77:GLU:OE2	45:AJ:243:PRO:HG3	1.96	0.66
45:AJ:257:LEU:HA	45:AJ:312:THR:HG21	1.78	0.66
44:AK:217:LEU:HD13	44:AK:367:ASP:HB3	1.78	0.66
45:AL:263:LEU:HD22	45:AL:422:TYR:CD1	2.30	0.66
44:AM:288:VAL:HG11	44:AM:327:ASP:HB3	1.77	0.66
44:BA:174:SER:HB2	44:BA:177:VAL:O	1.96	0.66
44:BA:199:ASP:O	44:BA:266:HIS:HB2	1.95	0.66
44:BA:261:PRO:HB3	45:BD:394:PHE:CE1	2.31	0.66
44:BA:332:ILE:HD12	44:BA:351:PHE:CD2	2.31	0.66
44:BC:14:ILE:HD11	44:BC:69:ASP:HB2	1.75	0.66
45:BD:139:LEU:HG	45:BD:188:SER:OG	1.96	0.66
45:BH:298:ASN:ND2	45:BH:298:ASN:O	2.28	0.66
45:BJ:178:THR:N	45:BJ:181:GLU:OE2	2.20	0.66
44:BM:200:VAL:HG13	44:BM:268:MET:SD	2.35	0.66
45:CB:73:MET:O	45:CB:76:VAL:HG12	1.96	0.66
45:CB:235:GLY:HA2	45:CB:318:ARG:HH22	1.60	0.66
45:CB:377:MET:O	45:CB:381:VAL:HG13	1.96	0.66
44:CC:8:HIS:CD2	44:CC:138:PHE:HB2	2.31	0.66
44:CI:84:ARG:HG3	44:CI:85:GLN:OE1	1.95	0.66
44:CI:200:VAL:HG13	44:CI:268:MET:SD	2.36	0.66
45:CL:203:ASP:OD1	45:CL:301:CYS:HA	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:299:MET:HG3	45:CL:305:PRO:HG3	1.78	0.66
45:CL:311:LEU:CD1	45:CL:312:THR:HG22	2.25	0.66
45:CN:65:LEU:HD22	45:CN:90:PHE:CE1	2.30	0.66
45:CN:212:PHE:CE2	45:CN:220:PRO:HG2	2.31	0.66
44:DA:70:LEU:CB	44:DA:98:ASP:HA	2.26	0.66
45:DB:347:ASN:O	44:DC:181:VAL:HG12	1.95	0.66
45:DB:375:GLN:O	45:DB:379:LYS:N	2.29	0.66
44:DC:141:VAL:HG12	44:DC:171:ILE:O	1.96	0.66
44:DC:278:ALA:HA	44:DC:369:ALA:HB2	1.77	0.66
45:DD:314:SER:CB	45:DD:350:LYS:HB3	2.25	0.66
44:DE:173:PRO:CD	44:DE:391:LEU:HD21	2.25	0.66
45:DF:282:ARG:NH1	45:DF:292:GLN:OE1	2.27	0.66
44:DG:141:VAL:CG1	44:DG:172:TYR:HA	2.25	0.66
44:DG:254:GLU:HA	44:DG:257:THR:OG1	1.96	0.66
44:DG:434:GLU:O	44:DG:437:ILE:HG12	1.95	0.66
44:DK:287:SER:O	44:DK:291:ILE:HG23	1.96	0.66
45:DL:2:ARG:NH2	45:DL:240:LEU:O	2.29	0.66
44:DM:172:TYR:HB2	44:DM:203:MET:HE1	1.77	0.66
45:DN:230:SER:HA	45:DN:233:MET:HB2	1.78	0.66
44:EA:3:GLU:O	44:EA:132:LEU:HA	1.96	0.66
44:EA:14:ILE:CD1	44:EA:69:ASP:HB2	2.25	0.66
45:EB:350:LYS:HD3	45:EB:351:SER:H	1.61	0.66
45:EH:88:ASP:OD2	45:FH:278:SER:OG	2.12	0.66
44:EI:189:LEU:HD11	44:EI:418:PHE:CE1	2.31	0.66
45:EJ:238:CYS:HB2	45:EJ:318:ARG:NH2	2.10	0.66
45:FB:286:VAL:HB	45:FB:325:GLU:OE1	1.96	0.66
44:FC:175:PRO:HD2	44:FC:207:GLU:OE1	1.96	0.66
44:FC:269:LEU:HD23	44:FC:379:SER:O	1.96	0.66
45:FD:114:ASP:O	45:FD:117:LEU:HB3	1.96	0.66
44:FE:93:ILE:CD1	44:FE:117:LEU:HB3	2.24	0.66
44:FE:324:VAL:CG2	44:FE:326:LYS:HG2	2.26	0.66
45:FH:86:ARG:NE	45:FH:87:PRO:HD2	2.11	0.66
44:FK:242:LEU:CD2	44:FK:251:ASP:HA	2.23	0.66
44:FK:398:MET:HE2	45:FL:346:PRO:HD2	1.78	0.66
44:FM:119:LEU:HA	44:FM:122:ILE:CD1	2.26	0.66
44:FM:222:PRO:CG	45:FN:324:LYS:HD3	2.25	0.66
45:FN:148:GLY:O	45:FN:152:ILE:N	2.29	0.66
45:FN:331:LEU:HD12	45:FN:334:GLN:NE2	2.08	0.66
45:FN:342:VAL:HG12	45:FN:348:ASN:HD22	1.61	0.66
44:GA:316:SER:O	44:GA:378:ILE:HG22	1.96	0.66
44:GA:326:LYS:NZ	45:GD:208:TYR:HB3	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GC:119:LEU:HA	44:GC:122:ILE:CG1	2.25	0.66
44:GC:221:ARG:HD2	45:GD:322:SER:OG	1.96	0.66
45:GD:1:MET:O	45:GD:2:ARG:HG2	1.96	0.66
45:GD:141:GLY:HA2	48:GD:503:GDP:O1A	1.96	0.66
44:GG:145:THR:HG22	46:GG:501:GTP:O3B	1.96	0.66
45:GH:372:THR:HA	45:GH:422:TYR:HE2	1.60	0.66
45:GJ:4:ILE:HD11	45:GJ:50:TYR:OH	1.96	0.66
45:GJ:6:HIS:NE2	45:GJ:8:GLN:HB3	2.11	0.66
44:GK:224:TYR:HD1	44:GK:227:LEU:HD12	1.61	0.66
45:GN:191:GLN:HG3	45:GN:195:ASN:ND2	2.11	0.66
44:HA:316:SER:N	44:HA:378:ILE:O	2.25	0.66
44:HG:268:MET:HG3	44:HG:378:ILE:CG2	2.26	0.66
45:HH:114:ASP:OD1	45:HH:115:SER:N	2.28	0.66
44:HI:362:VAL:CG1	44:HI:370:LYS:HB3	2.26	0.66
45:HJ:3:GLU:HA	45:HJ:49:VAL:HG13	1.78	0.66
45:HJ:376:GLU:HB3	45:HJ:380:ARG:HH21	1.61	0.66
44:HM:21:TRP:CZ3	44:HM:52:PHE:HB3	2.29	0.66
45:HN:389:PHE:O	45:HN:392:LYS:N	2.29	0.66
44:IA:315:CYS:HA	44:IA:379:SER:CB	2.25	0.66
44:IA:325:PRO:HG2	45:ID:222:TYR:CE2	2.31	0.66
45:IB:105:HIS:CD2	45:IB:150:LEU:HB2	2.30	0.66
45:IB:135:ILE:O	45:IB:167:PHE:N	2.27	0.66
44:IC:222:PRO:CD	45:ID:324:LYS:HD3	2.25	0.66
45:ID:1:MET:O	45:ID:2:ARG:HG2	1.96	0.66
45:ID:2:ARG:HB2	45:ID:131:GLN:OE1	1.96	0.66
45:IL:326:VAL:HG21	45:IL:353:ILE:CD1	2.26	0.66
44:IM:54:SER:OG	44:IM:62:VAL:HB	1.95	0.66
44:IM:250:VAL:HG21	44:IM:318:MET:SD	2.35	0.66
44:IM:255:PHE:HA	44:IM:258:ASN:HB2	1.77	0.66
44:IM:288:VAL:CA	44:IM:291:ILE:HG12	2.26	0.66
45:JB:305:PRO:HA	45:JB:373:ALA:CB	2.26	0.66
45:JD:406:MET:O	45:JD:409:THR:HB	1.96	0.66
44:JE:1:MET:CE	45:JH:70:PRO:HG2	2.26	0.66
44:JE:439:THR:HB	45:JH:391:ARG:HH21	1.60	0.66
45:JF:217:LEU:HD11	45:JF:220:PRO:HB3	1.78	0.66
45:JN:212:PHE:O	45:JN:216:LYS:HA	1.96	0.66
44:KA:98:ASP:OD1	44:KA:99:ALA:N	2.28	0.66
45:KF:336:LYS:HA	45:KF:336:LYS:HE3	1.77	0.66
45:KN:213:ARG:HG3	45:KN:297:LYS:HE3	1.78	0.66
45:KN:417:ASP:CB	45:KN:420:SER:HB3	2.26	0.66
44:LA:185:TYR:OH	44:LA:398:MET:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:69:GLU:HG2	45:LB:96:GLY:HA2	1.78	0.66
45:LB:251:ARG:O	45:LB:255:VAL:HG23	1.96	0.66
45:LD:107:THR:OG1	45:LD:108:GLU:OE1	2.14	0.66
44:LI:254:GLU:HG3	45:LL:98:GLY:HA2	1.77	0.66
44:LI:258:ASN:O	44:LI:259:LEU:HD23	1.96	0.66
44:LI:275:ILE:O	44:LI:275:ILE:HG23	1.95	0.66
44:LI:276:ILE:HG23	44:LI:280:LYS:HG3	1.77	0.66
45:LL:248:SER:HA	45:LL:252:LYS:HD2	1.78	0.66
45:LN:103:LYS:O	45:LN:108:GLU:HB3	1.96	0.66
44:MA:407:TRP:CZ3	45:MB:255:VAL:HA	2.30	0.66
45:MH:167:PHE:HE1	45:MH:233:MET:HG2	1.61	0.66
44:MK:271:SER:HB2	44:MK:377:MET:HG2	1.78	0.66
45:ML:73:MET:HE1	45:ML:92:PHE:CB	2.26	0.66
44:MM:11:GLN:HG3	44:MM:74:VAL:CG1	2.24	0.66
44:MM:248:LEU:HB2	44:MM:355:ILE:HD12	1.78	0.66
44:NA:27:GLU:OE1	44:NA:243:ARG:NH2	2.29	0.66
44:NA:175:PRO:HB3	44:NA:390:ARG:HD3	1.77	0.66
45:NB:164:MET:HE2	45:NB:197:ASP:H	1.61	0.66
44:NC:188:ILE:HG23	44:NC:425:LEU:CD1	2.22	0.66
45:ND:220:PRO:HA	45:ND:224:ASP:OD2	1.96	0.66
44:NE:141:VAL:HG11	44:NE:172:TYR:CD1	2.31	0.66
44:NE:348:PRO:HB2	45:NH:384:GLN:OE1	1.95	0.66
45:NF:257:LEU:HA	45:NF:312:THR:HG21	1.78	0.66
45:NF:293:MET:CE	45:NF:367:PHE:HB2	2.25	0.66
45:NJ:166:THR:OG1	45:NJ:199:CYS:HA	1.96	0.66
45:NN:293:MET:HE1	45:NN:367:PHE:HA	1.78	0.66
44:OA:352:LYS:CD	45:OD:178:THR:HA	2.26	0.66
45:OD:189:VAL:HG11	45:OD:415:MET:HE1	1.78	0.66
44:OE:394:LYS:HG2	45:OF:346:PRO:HG3	1.78	0.66
45:OF:130:LEU:HD21	45:OF:133:PHE:HE1	1.60	0.66
45:OF:302:ALA:HB3	45:OF:377:MET:HE1	1.77	0.66
44:OG:315:CYS:HA	44:OG:379:SER:OG	1.96	0.66
45:OJ:8:GLN:NE2	45:OJ:14:ASN:HA	2.09	0.66
45:OL:127:CYS:SG	45:OL:130:LEU:HG	2.36	0.66
44:PA:214:ARG:HA	44:PA:219:ILE:O	1.96	0.66
44:PA:242:LEU:HD11	44:PA:252:ILE:CG1	2.25	0.66
44:PC:191:THR:HA	44:PC:194:LEU:HG	1.77	0.66
44:PE:2:ARG:HD2	44:PE:242:LEU:O	1.96	0.66
45:PF:87:PRO:HA	45:PF:90:PHE:CD2	2.30	0.66
44:PG:224:TYR:HE1	45:PH:323:THR:HG1	1.44	0.66
45:PH:187:LEU:HD11	45:PH:408:PHE:CZ	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:253:LEU:O	45:PH:257:LEU:HD13	1.95	0.66
45:PJ:177:ASP:N	45:PJ:181:GLU:OE2	2.21	0.66
44:PM:73:THR:OG1	45:PN:2:ARG:NH2	2.29	0.66
45:PN:210:ILE:HG23	45:PN:214:THR:HG21	1.77	0.66
45:QB:136:THR:HG22	45:QB:167:PHE:CB	2.25	0.66
45:QB:185:ALA:O	45:QB:189:VAL:HG23	1.96	0.66
45:QB:286:VAL:HB	45:QB:325:GLU:OE1	1.96	0.66
45:QB:342:VAL:HG13	45:QB:345:ILE:HG22	1.77	0.66
44:QI:72:PRO:HG3	44:QI:95:GLY:O	1.95	0.66
45:QL:130:LEU:HD23	45:QL:162:ARG:HG3	1.77	0.66
44:QM:140:SER:O	44:QM:147:SER:OG	2.08	0.66
45:QN:299:MET:CG	45:QN:305:PRO:HG3	2.23	0.66
44:RA:106:GLY:O	44:RA:149:LEU:HD22	1.96	0.66
44:RA:209:ILE:CG2	44:RA:227:LEU:HD22	2.25	0.66
44:RE:68:LEU:HD21	44:RE:118:CYS:SG	2.36	0.66
44:RE:223:THR:HG23	44:RE:225:THR:H	1.60	0.66
45:RH:21:TRP:CH2	45:RH:61:PRO:HB3	2.31	0.66
44:RI:34:GLY:O	44:RI:60:LYS:HA	1.94	0.66
45:RJ:16:ILE:HD13	45:RJ:226:ASN:OD1	1.95	0.66
45:RL:42:LEU:HG	45:RL:45:GLU:OE2	1.96	0.66
44:SC:383:ALA:O	44:SC:386:GLU:HG2	1.95	0.66
45:SD:36:TYR:CE2	45:SD:44:LEU:HD21	2.30	0.66
45:SD:179:VAL:O	45:SD:182:PRO:HD2	1.96	0.66
44:SG:274:PRO:HD2	44:SG:374:ALA:CB	2.25	0.66
44:SI:208:ALA:HB2	44:SI:304:LYS:HG2	1.78	0.66
44:SI:405:VAL:O	44:SI:409:VAL:N	2.27	0.66
45:SL:200:MET:HA	45:SL:200:MET:CE	2.26	0.66
44:SM:248:LEU:HB3	44:SM:355:ILE:H	1.60	0.66
44:TA:3:GLU:HA	44:TA:51:THR:HA	1.78	0.66
44:TA:63:PRO:HD2	44:TA:87:PHE:HA	1.77	0.66
44:TA:115:VAL:HG21	44:TA:156:ARG:HD2	1.78	0.66
44:TE:23:LEU:HD11	44:TE:361:THR:HG23	1.77	0.66
44:TG:21:TRP:CZ2	44:TG:65:ALA:HB2	2.30	0.66
45:TH:6:HIS:HB3	45:TH:63:ALA:HA	1.78	0.66
45:TH:107:THR:OG1	45:TH:401:GLU:OE2	2.14	0.66
45:TH:325:GLU:OE1	44:TI:221:ARG:NH1	2.29	0.66
44:TI:23:LEU:O	44:TI:27:GLU:N	2.29	0.66
44:TM:282:TYR:OH	44:TM:371:VAL:HA	1.96	0.66
45:TN:68:LEU:CD1	45:TN:96:GLY:HA2	2.17	0.66
44:UC:210:TYR:HE1	44:UC:227:LEU:HD11	1.60	0.66
44:UC:212:ILE:HD12	44:UC:275:ILE:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:257:LEU:HA	45:UD:312:THR:HG21	1.78	0.66
44:UE:226:ASN:ND2	44:UE:367:ASP:OD2	2.25	0.66
44:UE:320:ARG:CD	44:UE:360:PRO:HG3	2.26	0.66
45:UF:323:THR:HG21	44:UG:224:TYR:CZ	2.31	0.66
44:UG:11:GLN:H	46:UG:501:GTP:PB	2.19	0.66
45:UH:5:VAL:HG12	45:UH:62:ARG:CD	2.25	0.66
45:UH:48:ASN:O	45:UH:62:ARG:NH2	2.28	0.66
45:UH:334:GLN:HG3	45:UH:341:PHE:CD2	2.31	0.66
45:UH:334:GLN:HB2	45:UH:349:ILE:CD1	2.25	0.66
45:UL:183:TYR:OH	45:UL:388:MET:HB3	1.95	0.66
44:UM:5:ILE:HA	44:UM:64:ARG:HB2	1.78	0.66
44:UM:118:CYS:O	44:UM:122:ILE:HG12	1.96	0.66
45:VD:280:GLN:O	45:VD:280:GLN:NE2	2.29	0.66
44:VE:222:PRO:CG	45:VF:324:LYS:HD3	2.26	0.66
44:VG:288:VAL:CA	44:VG:291:ILE:HG12	2.24	0.66
44:VI:120:ASP:OD1	44:VI:123:ARG:NH2	2.29	0.66
44:VK:7:ILE:HG21	44:VK:153:LEU:CD2	2.26	0.66
45:VL:207:LEU:HD13	45:VL:225:LEU:HD13	1.76	0.66
44:WA:150:GLY:O	44:WA:154:LEU:N	2.29	0.66
45:WB:286:VAL:CG1	45:WB:287:PRO:HD3	2.26	0.66
45:WF:20:PHE:CE1	45:WF:24:ILE:HD11	2.31	0.66
45:WF:86:ARG:NH2	45:WF:123:GLU:OE2	2.29	0.66
44:WG:200:VAL:HG13	44:WG:268:MET:CE	2.26	0.66
45:WH:42:LEU:HD22	45:WH:356:ILE:HD11	1.78	0.66
45:WH:123:GLU:O	45:WH:127:CYS:N	2.24	0.66
44:WI:88:HIS:HB3	44:WI:91:GLN:HG3	1.76	0.66
44:WI:288:VAL:HA	44:WI:291:ILE:CG1	2.25	0.66
44:WI:324:VAL:HG13	44:WI:325:PRO:HD2	1.78	0.66
45:WJ:202:ILE:HD13	45:WJ:229:VAL:HG22	1.77	0.66
44:WK:296:PHE:HE2	44:WK:335:ILE:HG21	1.60	0.66
44:WM:214:ARG:CZ	44:WM:220:GLU:HG3	2.26	0.66
45:WN:318:ARG:HH11	45:WN:358:PRO:HG3	1.59	0.66
45:WN:409:THR:HA	45:WN:412:GLU:OE2	1.96	0.66
1:6H:259:THR:HG21	44:FE:77:GLU:CG	1.85	0.66
1:6H:329:LEU:O	45:FJ:360:GLY:HA3	1.95	0.66
8:1G:168:PHE:CZ	45:KD:70:PRO:HB2	2.31	0.66
9:1H:115:ARG:NH1	45:HL:280:GLN:HG2	2.09	0.66
20:1J:314:VAL:HG13	44:IK:372:MET:CE	2.25	0.66
21:1K:161:GLU:OE2	44:GC:370:LYS:HD2	1.95	0.66
22:1L:176:ARG:NH2	44:CI:367:ASP:HA	2.11	0.66
13:1T:126:LYS:HB3	44:AC:339:ARG:NH1	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1W:61:LYS:HG2	45:LH:279:GLN:NE2	2.09	0.66
15:3V:125:MET:CE	45:LD:386:THR:HB	2.26	0.66
36:5S:128:LEU:CD1	36:5S:168:LEU:HG	2.26	0.66
41:6G:138:LYS:CE	44:VG:308:ARG:HG2	2.26	0.66
41:6G:185:TYR:CE2	44:UG:119:LEU:HB2	2.31	0.66
35:6R:31:PHE:HE1	45:LN:90:PHE:CD1	2.12	0.66
44:AA:74:VAL:HG13	44:AA:75:ILE:HD12	1.78	0.66
44:AA:176:GLN:NE2	44:AA:207:GLU:OE2	2.29	0.66
44:AA:203:MET:O	44:AA:204:LEU:HD22	1.96	0.66
44:AC:89:PRO:HD3	44:BC:283:HIS:ND1	2.11	0.66
45:AF:63:ALA:O	45:AF:89:ASN:ND2	2.28	0.66
44:AG:269:LEU:H	44:AG:269:LEU:HD23	1.61	0.66
45:AH:248:SER:CA	45:AH:252:LYS:HD2	2.26	0.66
44:AI:137:VAL:HG12	44:AI:167:LEU:O	1.96	0.66
44:AK:155:GLU:HG2	44:AK:197:HIS:CE1	2.30	0.66
44:AK:258:ASN:HA	45:AN:179:VAL:HG11	1.77	0.66
45:AL:133:PHE:HB2	45:AL:164:MET:SD	2.36	0.66
45:AL:193:VAL:HA	45:AL:264:HIS:CE1	2.30	0.66
45:AL:318:ARG:CD	45:AL:358:PRO:HD3	2.26	0.66
44:AM:298:PRO:HA	44:AM:301:MET:HG2	1.78	0.66
44:AM:427:ALA:HA	44:AM:430:LYS:HE3	1.78	0.66
45:AN:26:ASP:HB3	45:AN:359:LYS:NZ	2.10	0.66
45:AN:165:GLU:OE2	45:AN:250:LEU:HD22	1.96	0.66
45:AN:212:PHE:CZ	45:AN:220:PRO:HD3	2.28	0.66
44:BA:326:LYS:HE3	45:BD:219:THR:HB	1.78	0.66
45:BD:64:ILE:HG21	45:BD:119:VAL:HG11	1.77	0.66
44:BE:222:PRO:CG	45:BF:324:LYS:HD3	2.26	0.66
44:BI:221:ARG:NH1	45:BJ:322:SER:HB3	2.10	0.66
45:BJ:143:THR:N	48:BJ:502:GDP:O1B	2.29	0.66
44:BK:320:ARG:CZ	44:BK:360:PRO:HG3	2.26	0.66
44:BM:417:GLU:O	44:BM:420:GLU:HG2	1.96	0.66
44:CA:9:VAL:HG21	44:CA:149:LEU:HB2	1.77	0.66
44:CA:254:GLU:OE1	45:CB:99:ASN:ND2	2.29	0.66
44:CC:206:ASN:OD1	44:CC:207:GLU:N	2.29	0.66
45:CD:21:TRP:CZ3	45:CD:61:PRO:HB3	2.30	0.66
45:CD:267:MET:HE3	45:CD:305:PRO:HB3	1.78	0.66
44:CE:4:VAL:HG23	44:CE:134:GLY:O	1.96	0.66
44:CE:88:HIS:HB3	44:CE:91:GLN:CG	2.26	0.66
45:CF:74:ASP:HA	45:CF:77:ARG:NH2	2.11	0.66
44:CG:55:GLU:HG3	44:CG:57:GLY:H	1.61	0.66
44:CG:230:LEU:O	44:CG:234:VAL:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:374:ILE:HD11	45:CH:422:TYR:CE2	2.31	0.66
45:CN:8:GLN:NE2	45:CN:14:ASN:OD1	2.19	0.66
44:DA:284:GLU:HG3	44:DA:286:LEU:CD2	2.25	0.66
45:DB:116:VAL:O	45:DB:119:VAL:HG12	1.96	0.66
45:DD:286:VAL:CG1	45:DD:325:GLU:HG2	2.26	0.66
44:DE:141:VAL:HG11	44:DE:172:TYR:CD1	2.31	0.66
44:DE:287:SER:O	44:DE:291:ILE:HG23	1.95	0.66
44:DI:383:ALA:O	44:DI:386:GLU:HG2	1.95	0.66
45:DJ:24:ILE:HA	45:DJ:27:GLU:HG2	1.78	0.66
45:DJ:183:TYR:OH	45:DJ:388:MET:HB3	1.96	0.66
45:DL:201:VAL:HG23	45:DL:301:CYS:SG	2.36	0.66
45:DL:344:TRP:CZ3	45:DL:345:ILE:HB	2.31	0.66
44:DM:161:TYR:HB3	44:DM:164:LYS:NZ	2.11	0.66
45:ED:25:SER:O	45:ED:30:ILE:HG12	1.95	0.66
45:EH:116:VAL:O	45:EH:120:VAL:HG23	1.96	0.66
45:EL:286:VAL:HG22	45:EL:287:PRO:HD3	1.76	0.66
44:FA:352:LYS:CD	45:FD:178:THR:HG22	2.26	0.66
45:FB:52:ASN:HB2	45:FB:60:VAL:CG1	2.25	0.66
45:FB:171:PRO:HB2	45:FB:181:GLU:HB3	1.78	0.66
44:FC:48:ALA:O	44:FC:243:ARG:HG2	1.96	0.66
44:FC:291:ILE:HG13	44:FC:292:THR:H	1.61	0.66
45:FD:20:PHE:CE1	45:FD:233:MET:HG3	2.30	0.66
44:FE:205:ASP:CG	44:FE:304:LYS:H	1.99	0.66
44:FK:102:ASN:ND2	44:FK:411:GLU:HG3	2.07	0.66
45:FL:148:GLY:O	45:FL:152:ILE:HG12	1.96	0.66
44:FM:212:ILE:HD11	44:FM:300:ASN:HA	1.78	0.66
45:FN:318:ARG:HB3	45:FN:358:PRO:HD3	1.78	0.66
45:GD:345:ILE:HG23	45:GD:348:ASN:HB3	1.76	0.66
44:GE:320:ARG:NH1	44:GE:360:PRO:HB3	2.10	0.66
44:GI:175:PRO:HD3	44:GI:304:LYS:HE2	1.77	0.66
45:GJ:174:LYS:HE2	45:GJ:205:GLU:OE1	1.96	0.66
44:GK:181:VAL:HG22	45:GL:256:ASN:HB3	1.78	0.66
45:GL:44:LEU:CD2	45:GL:47:ILE:HD12	2.26	0.66
44:GM:311:LYS:HD2	44:GM:342:GLN:HG3	1.76	0.66
44:HA:212:ILE:HD11	44:HA:299:ALA:O	1.95	0.66
45:HB:267:MET:HE3	45:HB:301:CYS:HB2	1.78	0.66
44:HE:288:VAL:HG11	44:HE:327:ASP:CB	2.26	0.66
45:HH:313:ALA:O	45:HH:349:ILE:HD12	1.96	0.66
44:HK:294:SER:O	44:HK:297:GLU:HG2	1.96	0.66
45:HL:45:GLU:HG3	45:HL:46:ARG:HD3	1.77	0.66
45:HL:145:SER:O	45:HL:149:THR:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:407:TRP:CH2	45:HN:255:VAL:HA	2.30	0.66
45:HN:21:TRP:CH2	45:HN:61:PRO:HB3	2.31	0.66
44:IA:175:PRO:HG3	44:IA:390:ARG:HH11	1.60	0.66
44:IA:288:VAL:HA	44:IA:291:ILE:CG1	2.24	0.66
44:IA:352:LYS:HD2	45:ID:177:ASP:O	1.96	0.66
45:IB:258:ILE:HD13	45:IB:261:PRO:HA	1.78	0.66
44:IC:224:TYR:CD1	45:ID:323:THR:HG21	2.30	0.66
45:IJ:7:ILE:O	45:IJ:135:ILE:HG23	1.95	0.66
44:IK:176:GLN:NE2	44:IK:207:GLU:OE2	2.29	0.66
44:IK:287:SER:O	44:IK:291:ILE:HG23	1.96	0.66
44:IM:272:TYR:CD1	44:IM:376:CYS:HB2	2.31	0.66
44:IM:360:PRO:HG3	44:IM:374:ALA:HB2	1.79	0.66
45:JD:139:LEU:HD13	45:JD:168:SER:HB3	1.78	0.66
45:JD:178:THR:O	45:JD:181:GLU:HG3	1.94	0.66
44:JE:330:ALA:O	44:JE:334:THR:HG23	1.96	0.66
45:JF:105:HIS:CD2	45:JF:150:LEU:HB2	2.30	0.66
44:JI:84:ARG:CG	44:JI:85:GLN:HG2	2.25	0.66
44:JI:250:VAL:HG22	44:JI:352:LYS:HZ2	1.60	0.66
45:JJ:86:ARG:HH21	45:JJ:89:ASN:HD21	1.42	0.66
45:JJ:101:TRP:CZ3	45:JJ:187:LEU:HB3	2.29	0.66
44:JK:325:PRO:HG2	45:JN:222:TYR:CE1	2.31	0.66
44:JM:70:LEU:HB3	44:JM:97:GLU:O	1.96	0.66
45:JN:211:CYS:HA	45:JN:215:LEU:HD12	1.77	0.66
44:KA:105:ARG:O	44:KA:110:ILE:N	2.23	0.66
45:KD:103:LYS:NZ	45:KD:401:GLU:OE2	2.24	0.66
44:KG:326:LYS:HZ3	45:KJ:220:PRO:CD	2.09	0.66
44:KK:139:ASN:OD1	44:KK:170:THR:HG22	1.96	0.66
45:KL:3:GLU:HG3	45:KL:62:ARG:HH12	1.61	0.66
45:KL:49:VAL:HG11	45:KL:241:ARG:HD3	1.77	0.66
44:LE:56:THR:HB	44:LE:60:LYS:O	1.95	0.66
45:LF:299:MET:HE2	45:LF:299:MET:HA	1.77	0.66
44:LG:221:ARG:HH12	45:LH:325:GLU:CD	2.00	0.66
45:LH:99:ASN:HA	45:LH:142:GLY:H	1.61	0.66
44:LI:104:ALA:HB1	44:LI:411:GLU:HB2	1.77	0.66
45:LJ:173:PRO:HD2	45:LJ:380:ARG:HD2	1.76	0.66
45:LL:286:VAL:N	45:LL:287:PRO:HD2	2.11	0.66
45:LN:379:LYS:CG	45:LN:419:VAL:HG21	2.24	0.66
44:MC:275:ILE:HG23	44:MC:368:LEU:HD11	1.78	0.66
45:MJ:376:GLU:CG	45:MJ:380:ARG:HH21	2.09	0.66
45:ML:244:GLY:HA2	45:ML:355:ASP:CG	2.16	0.66
44:MM:65:ALA:O	44:MM:91:GLN:NE2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:177:VAL:HG12	45:NB:331:LEU:HD22	1.76	0.66
44:NC:222:PRO:CD	45:ND:324:LYS:HD3	2.25	0.66
45:ND:238:CYS:HB2	45:ND:318:ARG:HH12	1.61	0.66
45:ND:259:PRO:HG2	45:ND:311:LEU:HD13	1.78	0.66
44:NG:31:GLN:HG3	44:NG:32:PRO:HD2	1.77	0.66
44:NI:91:GLN:HG2	44:NI:121:ARG:HD2	1.78	0.66
44:NI:242:LEU:HD11	44:NI:252:ILE:CD1	2.25	0.66
44:NK:413:MET:HE2	44:NK:417:GLU:HG3	1.78	0.66
44:OA:265:ILE:HG12	44:OA:432:TYR:HE1	1.60	0.66
45:OD:156:ARG:HD3	45:OD:156:ARG:O	1.97	0.66
45:OD:216:LYS:HB2	45:OD:275:SER:OG	1.96	0.66
45:OF:73:MET:HE1	45:OF:92:PHE:CB	2.25	0.66
45:OH:36:TYR:CD1	45:OH:44:LEU:HD11	2.30	0.66
45:OJ:269:GLY:HA2	45:OJ:300:MET:CE	2.26	0.66
44:OM:88:HIS:ND1	44:OM:89:PRO:HD2	2.10	0.66
44:OM:104:ALA:O	44:OM:108:TYR:N	2.29	0.66
44:PA:435:VAL:O	45:PD:391:ARG:NH2	2.29	0.66
44:PC:150:GLY:O	44:PC:154:LEU:HG	1.95	0.66
44:PC:403:ALA:O	44:PC:405:VAL:HG23	1.95	0.66
45:PD:11:GLN:HA	45:PD:72:THR:HG21	1.78	0.66
44:PE:312:TYR:O	44:PE:344:VAL:N	2.25	0.66
44:PE:407:TRP:HH2	45:PF:258:ILE:HD13	1.61	0.66
45:PF:249:ASP:OD1	45:PF:252:LYS:N	2.27	0.66
44:PG:271:SER:HB2	44:PG:377:MET:CE	2.25	0.66
44:PI:288:VAL:HG23	44:PI:291:ILE:HD11	1.76	0.66
44:PM:278:ALA:N	44:PM:369:ALA:HB2	2.11	0.66
45:PN:144:GLY:O	45:PN:148:GLY:N	2.25	0.66
44:QA:230:LEU:HD11	44:QA:368:LEU:HD21	1.77	0.66
45:QD:231:ALA:HB1	45:QD:270:PHE:CE2	2.31	0.66
45:QD:247:ASN:O	45:QD:252:LYS:NZ	2.22	0.66
45:QD:387:ALA:O	45:QD:390:ARG:HG2	1.95	0.66
44:QE:169:PHE:CD1	44:QE:202:VAL:HB	2.31	0.66
44:QG:265:ILE:HG12	44:QG:432:TYR:CE1	2.30	0.66
44:QG:356:ASN:OD1	44:QG:357:TYR:N	2.28	0.66
45:QH:350:LYS:HD2	45:QH:351:SER:N	2.11	0.66
45:QJ:71:GLY:O	45:QJ:75:SER:N	2.29	0.66
45:QJ:186:THR:O	45:QJ:189:VAL:HG22	1.96	0.66
45:QJ:203:ASP:O	45:QJ:207:LEU:HG	1.96	0.66
44:QK:115:VAL:HG23	44:QK:153:LEU:HD23	1.78	0.66
44:QM:85:GLN:N	44:QM:85:GLN:OE1	2.29	0.66
44:RA:262:TYR:OH	45:RB:391:ARG:O	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:4:VAL:O	44:RC:64:ARG:NH1	2.29	0.66
44:RC:259:LEU:HD11	44:RC:316:SER:HB3	1.77	0.66
45:RD:77:ARG:HH12	45:RD:83:GLN:HA	1.61	0.66
45:RD:257:LEU:HD11	45:RD:350:LYS:HD2	1.78	0.66
45:RD:347:ASN:O	44:RE:181:VAL:HG12	1.96	0.66
45:RF:156:ARG:HG2	45:RF:195:ASN:HB3	1.77	0.66
45:RH:95:THR:HG21	45:RH:108:GLU:HG3	1.77	0.66
45:RH:265:PHE:O	45:RH:374:ILE:HD13	1.96	0.66
44:RI:8:HIS:HE2	44:RI:138:PHE:HD2	1.43	0.66
44:RI:326:LYS:HB2	45:RJ:212:PHE:CZ	2.31	0.66
44:RK:91:GLN:HG3	44:RK:92:LEU:HD12	1.75	0.66
45:RL:136:THR:CA	45:RL:167:PHE:HB2	2.23	0.66
44:RM:213:CYS:SG	44:RM:217:LEU:HD12	2.35	0.66
44:RM:296:PHE:HE2	44:RM:335:ILE:HG21	1.61	0.66
45:SB:21:TRP:CZ3	45:SB:61:PRO:HB3	2.31	0.66
45:SB:102:ALA:HB2	45:SB:398:TYR:CD1	2.31	0.66
45:SB:311:LEU:HD11	45:SB:372:THR:HG22	1.78	0.66
44:SE:259:LEU:HD12	44:SE:268:MET:HE3	1.76	0.66
44:SK:217:LEU:HD22	44:SK:367:ASP:HB3	1.78	0.66
44:SK:435:VAL:O	45:SL:391:ARG:NH2	2.28	0.66
45:SL:178:THR:N	45:SL:181:GLU:OE2	2.28	0.66
44:SM:75:ILE:O	44:SM:77:GLU:N	2.28	0.66
44:TA:175:PRO:HD2	44:TA:207:GLU:OE1	1.96	0.66
45:TB:208:TYR:HE1	45:TB:225:LEU:HD11	1.61	0.66
45:TD:242:PHE:HB3	45:TD:356:ILE:HG13	1.77	0.66
45:TD:263:LEU:HG	45:TD:422:TYR:CD1	2.31	0.66
45:TF:313:ALA:HB1	45:TF:367:PHE:CE1	2.31	0.66
45:TF:406:MET:O	45:TF:410:GLU:HG3	1.95	0.66
44:TG:295:ALA:CB	44:TG:377:MET:HE2	2.24	0.66
44:TG:341:ILE:HG23	44:TG:341:ILE:O	1.95	0.66
45:TH:106:TYR:CE2	45:TH:403:MET:HB2	2.25	0.66
45:TH:222:TYR:O	45:TH:226:ASN:ND2	2.28	0.66
44:TI:89:PRO:HG2	44:UI:280:LYS:HG3	1.78	0.66
44:TI:390:ARG:HG3	44:TI:391:LEU:HD12	1.78	0.66
45:TJ:68:LEU:HG	45:TJ:96:GLY:HA2	1.76	0.66
44:TK:276:ILE:CG1	44:TK:281:ALA:HA	2.26	0.66
45:TL:309:ARG:NH1	45:TL:342:VAL:HA	2.11	0.66
45:TN:131:GLN:CG	45:TN:250:LEU:HD12	2.26	0.66
44:UA:316:SER:HA	44:UA:352:LYS:N	2.07	0.66
44:UE:104:ALA:HA	44:UE:108:TYR:HD2	1.61	0.66
45:UJ:1:MET:SD	44:UK:96:LYS:HD2	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:130:LEU:CG	45:UJ:162:ARG:HD2	2.26	0.66
45:UJ:299:MET:HE2	45:UJ:305:PRO:HG3	1.77	0.66
44:UK:14:ILE:HD13	44:UK:75:ILE:HD11	1.76	0.66
45:UL:184:ASN:OD1	45:UL:185:ALA:N	2.29	0.66
44:VA:352:LYS:HD2	45:VD:177:ASP:O	1.95	0.66
44:VC:118:CYS:HA	44:VC:121:ARG:HB3	1.78	0.66
44:VC:223:THR:CB	45:VD:322:SER:HA	2.26	0.66
44:VC:275:ILE:HD11	44:VC:368:LEU:HD13	1.77	0.66
44:VE:268:MET:HB2	44:VE:380:ASN:HA	1.78	0.66
45:VF:341:PHE:O	45:VF:343:GLU:N	2.29	0.66
44:VI:184:PRO:O	44:VI:188:ILE:HG12	1.95	0.66
44:VK:222:PRO:CD	45:VL:324:LYS:HD3	2.26	0.66
44:VM:195:LEU:CD1	44:VM:196:GLU:HG2	2.25	0.66
45:WB:141:GLY:HA3	48:WB:501:GDP:O3A	1.96	0.66
45:WD:271:ALA:HB2	45:WD:365:VAL:H	1.60	0.66
45:WL:253:LEU:O	45:WL:257:LEU:HD13	1.96	0.66
44:WM:66:VAL:HG22	44:WM:68:LEU:HD21	1.78	0.66
44:WM:105:ARG:O	44:WM:110:ILE:HG12	1.95	0.66
21:1K:194:LYS:HD3	45:GD:276:ARG:NH2	2.11	0.65
5:2D:54:PHE:CE1	45:EJ:322:SER:HB2	2.31	0.65
26:2R:192:ILE:HB	44:AG:39:ASP:HB3	1.77	0.65
2:3A:38:SER:HB3	44:MM:77:GLU:HG2	1.78	0.65
28:3C:68:ASN:HB3	44:LA:84:ARG:HH21	1.61	0.65
32:3I:224:PRO:O	45:GL:306:ARG:NH2	2.28	0.65
12:3S:13:GLY:HA2	45:WN:92:PHE:CZ	2.29	0.65
12:3S:261:LEU:HD13	45:AN:424:GLN:HG3	1.76	0.65
34:4F:193:LYS:CE	44:IM:219:ILE:HG23	2.26	0.65
35:4R:249:LEU:HD12	44:CE:370:LYS:CE	2.26	0.65
37:5D:89:TYR:CE2	44:NM:370:LYS:HB3	2.31	0.65
38:5G:155:MET:HA	38:5G:158:SER:OG	1.96	0.65
38:5H:44:ARG:HE	38:5H:45:PRO:HD2	1.61	0.65
38:5H:56:VAL:HG11	45:ON:215:LEU:HD21	1.78	0.65
38:5H:121:GLU:CA	38:5H:122:PHE:HB2	2.25	0.65
39:5K:24:GLU:OE1	39:5K:28:LYS:NZ	2.25	0.65
40:6F:118:HIS:HA	40:6F:121:GLU:OE2	1.96	0.65
40:6F:124:ARG:HA	40:6F:128:THR:CG2	2.24	0.65
45:AD:330:MET:HE3	45:AD:330:MET:HA	1.76	0.65
45:AD:403:MET:HB2	45:AD:407:GLU:OE2	1.96	0.65
45:AF:32:PRO:HG3	45:AF:81:PHE:CE2	2.31	0.65
45:AJ:21:TRP:HA	45:AJ:24:ILE:HG22	1.77	0.65
45:AJ:238:CYS:SG	45:AJ:316:LEU:HD23	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AJ:421:GLU:O	45:AJ:424:GLN:HG2	1.96	0.65
45:AL:200:MET:HG2	45:AL:266:PHE:HB2	1.78	0.65
44:BA:350:GLY:HA2	45:BD:179:VAL:HG12	1.78	0.65
44:BG:217:LEU:HD22	44:BG:219:ILE:CG1	2.26	0.65
45:BH:309:ARG:NH2	45:BH:426:GLN:O	2.26	0.65
44:BI:212:ILE:CD1	44:BI:300:ASN:HA	2.24	0.65
44:BI:261:PRO:HG2	44:BI:313:MET:HE3	1.77	0.65
45:BJ:177:ASP:N	45:BJ:181:GLU:OE2	2.27	0.65
44:BK:205:ASP:OD1	44:BK:303:ALA:HA	1.96	0.65
44:CA:439:THR:HB	45:CB:390:ARG:NH2	2.11	0.65
45:CB:415:MET:O	45:CB:419:VAL:HG23	1.96	0.65
44:CC:88:HIS:HB3	44:CC:91:GLN:HG2	1.78	0.65
45:CD:330:MET:HE3	45:CD:349:ILE:CD1	2.18	0.65
44:CE:434:GLU:O	44:CE:437:ILE:HG12	1.96	0.65
45:CF:403:MET:HE3	45:CF:404:ASP:H	1.61	0.65
45:CJ:186:THR:HG21	45:CJ:385:PHE:CD1	2.31	0.65
45:CL:325:GLU:OE1	44:CM:221:ARG:NH1	2.28	0.65
44:CM:288:VAL:CA	44:CM:291:ILE:HG12	2.26	0.65
45:DF:316:LEU:HB2	45:DF:366:THR:HG22	1.76	0.65
44:DG:11:GLN:HB3	46:DG:501:GTP:O2B	1.96	0.65
45:DH:201:VAL:HG23	45:DH:301:CYS:SG	2.36	0.65
45:DH:377:MET:O	45:DH:380:ARG:HG2	1.96	0.65
44:DI:11:GLN:CA	44:DI:14:ILE:HD12	2.24	0.65
44:DK:169:PHE:CE1	44:DK:202:VAL:HG21	2.32	0.65
44:DK:230:LEU:CD1	44:DK:275:ILE:HD13	2.26	0.65
45:DL:376:GLU:C	45:DL:379:LYS:HE2	2.16	0.65
44:EA:311:LYS:O	44:EA:382:THR:HG23	1.96	0.65
44:EC:175:PRO:HG2	44:EC:304:LYS:CG	2.25	0.65
44:EC:254:GLU:CG	45:ED:98:GLY:HA2	2.20	0.65
45:ED:116:VAL:HG22	45:ED:120:VAL:CG2	2.24	0.65
44:EE:205:ASP:OD1	44:EE:303:ALA:HA	1.97	0.65
44:EG:205:ASP:OD2	44:EG:304:LYS:N	2.19	0.65
44:EG:208:ALA:O	44:EG:212:ILE:HG12	1.96	0.65
45:EJ:322:SER:OG	44:EK:222:PRO:O	2.14	0.65
44:EK:118:CYS:O	44:EK:122:ILE:HG12	1.96	0.65
45:FB:299:MET:SD	45:FB:300:MET:N	2.69	0.65
45:FD:22:GLU:HG2	45:FD:81:PHE:CB	2.26	0.65
45:FF:285:THR:HG22	45:FF:287:PRO:CD	2.26	0.65
45:FH:139:LEU:CD2	45:FH:168:SER:HB3	2.26	0.65
45:FH:252:LYS:HD3	45:FH:350:LYS:HE2	1.77	0.65
44:FI:315:CYS:O	44:FI:351:PHE:HA	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:324:VAL:CG1	44:FI:325:PRO:HD2	2.26	0.65
45:FJ:377:MET:O	45:FJ:380:ARG:HG2	1.96	0.65
45:FJ:406:MET:O	45:FJ:410:GLU:HG3	1.95	0.65
45:FL:7:ILE:HD12	45:FL:64:ILE:O	1.96	0.65
45:FL:257:LEU:HA	45:FL:312:THR:HG21	1.78	0.65
44:FM:21:TRP:CZ2	44:FM:65:ALA:HB2	2.31	0.65
44:GA:341:ILE:O	44:GA:341:ILE:HG23	1.96	0.65
45:GF:175:VAL:N	45:GF:205:GLU:OE2	2.25	0.65
45:GF:318:ARG:HD3	45:GF:358:PRO:HD3	1.78	0.65
45:GH:237:THR:HG23	45:GH:241:ARG:HH21	1.61	0.65
44:GI:118:CYS:O	44:GI:122:ILE:HG12	1.96	0.65
44:GI:176:GLN:NE2	44:GI:207:GLU:OE2	2.29	0.65
44:GI:242:LEU:HD21	44:GI:252:ILE:HD12	1.76	0.65
45:GJ:3:GLU:OE2	45:GJ:127:CYS:HB2	1.96	0.65
45:GJ:238:CYS:SG	45:GJ:239:CYS:N	2.69	0.65
44:GM:392:ASP:O	44:GM:396:ASP:N	2.29	0.65
45:GN:135:ILE:CB	45:GN:152:ILE:HD11	2.26	0.65
44:HC:212:ILE:HD11	44:HC:300:ASN:HA	1.78	0.65
44:HG:284:GLU:HG3	44:HG:286:LEU:CD2	2.26	0.65
44:HK:6:SER:OG	44:HK:65:ALA:HA	1.95	0.65
44:HK:185:TYR:HE2	44:HK:404:PHE:HB2	1.60	0.65
44:HK:404:PHE:CZ	45:HL:259:PRO:HA	2.31	0.65
44:IA:99:ALA:CB	44:IA:145:THR:HB	2.25	0.65
44:IA:189:LEU:HD21	44:IA:418:PHE:CE1	2.31	0.65
44:IA:278:ALA:HB2	44:IA:369:ALA:HB2	1.77	0.65
45:IB:12:CYS:O	45:IB:16:ILE:HD12	1.95	0.65
45:IB:169:VAL:HA	45:IB:202:ILE:O	1.96	0.65
45:IB:223:GLY:O	45:IB:227:HIS:N	2.26	0.65
44:IC:203:MET:HG3	44:IC:384:ILE:HD11	1.77	0.65
44:IC:384:ILE:O	44:IC:387:VAL:HG12	1.95	0.65
45:ID:371:SER:O	45:ID:374:ILE:HG23	1.96	0.65
45:IN:86:ARG:NH1	44:JK:283:HIS:HB2	2.10	0.65
45:JB:197:ASP:O	45:JB:264:HIS:HB2	1.95	0.65
45:JB:227:HIS:O	45:JB:230:SER:OG	2.13	0.65
45:JB:238:CYS:SG	45:JB:318:ARG:HD2	2.36	0.65
45:JD:242:PHE:HB3	45:JD:356:ILE:HD13	1.77	0.65
44:JE:256:GLN:O	45:JH:397:TRP:NE1	2.29	0.65
44:JI:174:SER:HB2	44:JI:177:VAL:O	1.95	0.65
45:JJ:133:PHE:HE2	45:JJ:155:VAL:HG11	1.60	0.65
44:JK:88:HIS:HB3	44:JK:91:GLN:CG	2.25	0.65
44:KE:203:MET:CE	44:KE:203:MET:HA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:32:PRO:HG3	45:KF:81:PHE:HE1	1.62	0.65
45:KF:316:LEU:HD23	45:KF:352:SER:HB2	1.78	0.65
44:KG:239:THR:HG23	44:KG:242:LEU:CD1	2.22	0.65
45:KH:317:PHE:CE2	45:KH:326:VAL:HG13	2.31	0.65
45:KN:316:LEU:HB2	45:KN:366:THR:CG2	2.26	0.65
44:LA:407:TRP:CH2	45:LB:258:ILE:HB	2.31	0.65
44:LE:204:LEU:CD2	44:LE:302:MET:HG3	2.26	0.65
44:LG:274:PRO:CD	44:LG:374:ALA:HA	2.26	0.65
45:LJ:7:ILE:HG22	45:LJ:64:ILE:HB	1.78	0.65
45:LJ:217:LEU:HD11	45:LJ:220:PRO:CG	2.25	0.65
44:MA:209:ILE:HG23	44:MA:227:LEU:HD22	1.78	0.65
45:MF:3:GLU:HB3	45:MF:49:VAL:HA	1.78	0.65
45:MF:207:LEU:HD23	45:MF:225:LEU:HD22	1.78	0.65
44:MG:161:TYR:HB3	44:MG:164:LYS:NZ	2.11	0.65
44:MG:208:ALA:HB3	44:MG:302:MET:O	1.95	0.65
44:MG:265:ILE:HD12	44:MG:432:TYR:CZ	2.30	0.65
45:MH:270:PHE:CD2	45:MH:273:LEU:HD21	2.31	0.65
45:MJ:189:VAL:HG21	45:MJ:378:PHE:CZ	2.31	0.65
45:MJ:192:LEU:CD1	45:MJ:196:ALA:HB2	2.26	0.65
44:MK:47:ASP:HB2	44:MK:50:ASN:OD1	1.95	0.65
44:MK:101:ASN:HA	44:MK:144:GLY:HA3	1.78	0.65
44:MK:326:LYS:HB2	45:MN:212:PHE:HZ	1.58	0.65
44:NA:340:THR:HG23	44:NA:341:ILE:HG12	1.78	0.65
45:NB:100:ASN:O	45:NB:103:LYS:N	2.29	0.65
44:NC:306:ASP:HB3	44:NC:309:HIS:CD2	2.31	0.65
45:ND:97:ALA:HA	45:ND:103:LYS:HE3	1.78	0.65
44:NE:20:CYS:HA	44:NE:232:ALA:HB1	1.78	0.65
45:NJ:242:PHE:CD1	45:NJ:356:ILE:HG13	2.32	0.65
45:NL:77:ARG:HG2	45:NL:83:GLN:HE22	1.61	0.65
44:NM:27:GLU:OE1	44:NM:243:ARG:NH2	2.29	0.65
44:NM:202:VAL:HA	44:NM:268:MET:O	1.96	0.65
45:NN:86:ARG:NH2	45:ON:277:GLY:O	2.29	0.65
45:OB:167:PHE:CD1	45:OB:200:MET:HG3	2.31	0.65
44:OC:261:PRO:HA	45:OF:394:PHE:CD1	2.31	0.65
44:OE:34:GLY:O	44:OE:60:LYS:HA	1.95	0.65
44:OE:138:PHE:CZ	44:OE:235:ILE:HD12	2.27	0.65
45:OF:131:GLN:HA	45:OF:162:ARG:NH2	2.11	0.65
44:OG:195:LEU:HD21	44:OG:264:ARG:NH2	2.10	0.65
44:OG:311:LYS:O	44:OG:381:SER:HB2	1.96	0.65
45:OH:145:SER:HB2	45:OH:188:SER:OG	1.96	0.65
45:OJ:86:ARG:HA	45:PJ:281:TYR:CD2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:28:HIS:HA	45:OL:43:GLN:OE1	1.96	0.65
45:OL:282:ARG:HG3	45:OL:283:ALA:N	2.11	0.65
45:OL:372:THR:HA	45:OL:422:TYR:CE2	2.31	0.65
44:OM:90:GLU:OE1	44:OM:121:ARG:HD3	1.96	0.65
45:ON:289:LEU:HD21	45:ON:363:MET:HB3	1.78	0.65
45:PB:11:GLN:O	45:PB:15:GLN:HG2	1.96	0.65
44:PC:72:PRO:HB2	44:PC:76:ASP:OD2	1.96	0.65
44:PC:103:PHE:CE2	44:PC:189:LEU:HD13	2.31	0.65
44:PC:144:GLY:N	46:PC:501:GTP:O2G	2.28	0.65
44:PC:316:SER:N	44:PC:378:ILE:O	2.26	0.65
44:PC:394:LYS:NZ	45:PD:347:ASN:OD1	2.28	0.65
45:PD:60:VAL:H	45:PD:62:ARG:HH12	1.43	0.65
44:PK:407:TRP:HZ3	45:PL:255:VAL:HG22	1.60	0.65
45:PL:184:ASN:OD1	45:PL:185:ALA:N	2.29	0.65
44:QA:99:ALA:HB3	46:QA:501:GTP:O2G	1.96	0.65
45:QB:72:THR:O	45:QB:76:VAL:HG23	1.96	0.65
45:QB:224:ASP:O	45:QB:228:LEU:HG	1.95	0.65
44:QC:136:LEU:HD23	44:QC:167:LEU:HB2	1.77	0.65
44:QC:219:ILE:HG21	44:QC:222:PRO:HB3	1.78	0.65
44:QE:208:ALA:O	44:QE:212:ILE:HG12	1.95	0.65
45:QF:134:GLN:CB	45:QF:165:GLU:HB2	2.27	0.65
44:QG:9:VAL:HB	44:QG:68:LEU:HB2	1.76	0.65
44:QG:88:HIS:CE1	44:QG:90:GLU:HG2	2.31	0.65
44:QG:103:PHE:HD1	44:QG:147:SER:HG	1.44	0.65
44:QG:324:VAL:HG12	44:QG:326:LYS:HG3	1.77	0.65
45:QJ:405:GLU:O	45:QJ:409:THR:HG23	1.97	0.65
44:QM:268:MET:HB2	44:QM:379:SER:O	1.97	0.65
45:QN:51:TYR:HA	45:QN:61:PRO:HA	1.78	0.65
44:RC:274:PRO:HD3	44:RC:374:ALA:HA	1.76	0.65
44:RE:14:ILE:HD11	44:RE:69:ASP:HB2	1.78	0.65
44:RE:88:HIS:H	44:RE:91:GLN:NE2	1.93	0.65
45:RF:8:GLN:HE22	45:RF:17:GLY:HA3	1.60	0.65
45:RF:112:LEU:O	45:RF:112:LEU:HD23	1.96	0.65
45:RF:199:CYS:HB3	45:RF:265:PHE:CD2	2.31	0.65
44:RI:48:ALA:O	44:RI:51:THR:HG23	1.96	0.65
45:RJ:268:ILE:HG13	45:RJ:300:MET:CE	2.27	0.65
44:RK:370:LYS:HE2	44:RK:372:MET:HE3	1.78	0.65
44:RM:169:PHE:HZ	44:RM:238:LEU:HD13	1.60	0.65
45:RN:21:TRP:CZ2	45:RN:63:ALA:HB2	2.31	0.65
44:SA:434:GLU:O	44:SA:437:ILE:HG12	1.96	0.65
45:SD:210:ILE:O	45:SD:215:LEU:HG	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:66:VAL:CG2	44:SE:121:ARG:HG2	2.26	0.65
45:SJ:231:ALA:O	45:SJ:235:GLY:N	2.24	0.65
45:SJ:372:THR:HA	45:SJ:422:TYR:CZ	2.31	0.65
45:SL:21:TRP:HD1	45:SL:24:ILE:HD12	1.60	0.65
44:SM:394:LYS:O	44:SM:397:LEU:HB2	1.97	0.65
45:SN:67:ASP:O	45:SN:92:PHE:HA	1.95	0.65
44:TA:154:LEU:HD13	44:TA:198:THR:CG2	2.26	0.65
44:TC:289:ALA:O	44:TC:292:THR:HG22	1.96	0.65
44:TE:135:PHE:O	44:TE:167:LEU:N	2.27	0.65
44:TE:156:ARG:O	44:TE:160:ASP:N	2.21	0.65
45:TF:193:VAL:HA	45:TF:264:HIS:CE1	2.31	0.65
45:TJ:91:VAL:HG21	45:TJ:116:VAL:CA	2.22	0.65
45:TJ:323:THR:HG21	44:TK:224:TYR:CE2	2.31	0.65
44:TK:387:VAL:HA	44:TK:390:ARG:CG	2.24	0.65
45:TL:314:SER:OG	45:TL:368:VAL:HB	1.95	0.65
45:TN:268:ILE:HA	45:TN:367:PHE:O	1.96	0.65
45:UB:295:ASP:OD1	45:UB:297:LYS:HG2	1.96	0.65
44:UC:69:ASP:O	44:UC:95:GLY:N	2.27	0.65
44:UC:242:LEU:CD1	44:UC:252:ILE:HD12	2.26	0.65
45:UD:3:GLU:CG	45:UD:127:CYS:HB2	2.27	0.65
45:UD:169:VAL:HG13	45:UD:202:ILE:O	1.96	0.65
45:UH:298:ASN:O	45:UH:298:ASN:ND2	2.28	0.65
44:UM:9:VAL:HG21	44:UM:149:LEU:HB2	1.78	0.65
45:UN:99:ASN:HA	45:UN:142:GLY:N	2.11	0.65
44:VA:247:ALA:HB2	44:VA:357:TYR:OH	1.96	0.65
44:VA:288:VAL:HG11	44:VA:327:ASP:OD1	1.96	0.65
45:VB:199:CYS:HB3	45:VB:265:PHE:CD1	2.31	0.65
44:VC:145:THR:HG22	46:VC:501:GTP:PG	2.36	0.65
45:VD:52:ASN:HB2	45:VD:62:ARG:NH1	2.11	0.65
45:VD:270:PHE:HD2	45:VD:273:LEU:HD21	1.62	0.65
44:VE:313:MET:HG2	44:VE:380:ASN:O	1.95	0.65
44:VG:89:PRO:HG3	44:WG:280:LYS:CG	2.25	0.65
44:VG:205:ASP:OD2	44:VG:304:LYS:N	2.20	0.65
45:VH:222:TYR:O	45:VH:226:ASN:ND2	2.28	0.65
45:VL:11:GLN:HA	45:VL:14:ASN:ND2	2.11	0.65
45:VN:200:MET:HE1	45:VN:268:ILE:H	1.61	0.65
45:VN:345:ILE:HG23	45:VN:348:ASN:ND2	2.08	0.65
45:WD:114:ASP:OD1	45:WD:115:SER:N	2.28	0.65
45:WD:410:GLU:O	45:WD:413:SER:OG	2.11	0.65
44:WG:209:ILE:HG22	44:WG:227:LEU:HD22	1.78	0.65
44:WK:37:PRO:HG2	44:WK:40:LYS:HD2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:311:LYS:HB3	44:WK:344:VAL:CG1	2.27	0.65
44:WM:102:ASN:CG	44:WM:105:ARG:HG3	2.17	0.65
44:WM:136:LEU:HD23	44:WM:167:LEU:HB2	1.77	0.65
45:WN:312:THR:HA	45:WN:348:ASN:HB2	1.77	0.65
20:1J:122:ARG:HA	44:IE:219:ILE:HD12	1.77	0.65
12:1S:107:GLN:NE2	44:ME:410:GLY:O	2.29	0.65
24:3O:372:ALA:CB	44:UI:370:LYS:HE2	2.26	0.65
26:3R:299:LEU:HA	45:CL:78:ALA:O	1.96	0.65
35:4R:229:ASN:ND2	44:BE:47:ASP:OD2	2.28	0.65
38:5H:32:ALA:HB3	44:OK:279:GLU:OE2	1.96	0.65
11:5Q:169:ASP:C	11:5Q:170:ARG:HD2	2.16	0.65
35:5R:353:ASP:OD1	35:5R:356:THR:OG1	2.05	0.65
40:6F:72:GLN:HB3	45:JF:360:GLY:O	1.97	0.65
41:6G:100:PHE:O	41:6G:104:SER:N	2.23	0.65
11:6Q:179:PRO:HA	11:6Q:182:LYS:HG2	1.78	0.65
35:6R:12:LEU:O	45:LN:227:HIS:CD2	2.48	0.65
35:6R:318:TYR:HB3	35:6R:321:MET:HB2	1.79	0.65
35:6R:323:LEU:HD22	45:CN:276:ARG:NE	2.09	0.65
45:AB:275:SER:O	45:AB:279:GLN:N	2.28	0.65
44:AE:174:SER:HB2	44:AE:177:VAL:O	1.96	0.65
44:AG:34:GLY:O	44:AG:60:LYS:HA	1.95	0.65
44:AI:229:ARG:NH1	44:AI:366:GLY:HA2	2.11	0.65
44:AK:60:LYS:HD3	44:BK:283:HIS:CD2	2.32	0.65
44:AK:407:TRP:HZ3	45:AL:255:VAL:HA	1.59	0.65
45:AL:32:PRO:HG3	45:AL:81:PHE:CE1	2.31	0.65
45:AN:184:ASN:OD1	45:AN:185:ALA:N	2.29	0.65
44:BC:185:TYR:OH	44:BC:398:MET:HB3	1.95	0.65
45:BF:164:MET:HB2	45:BF:197:ASP:H	1.60	0.65
45:BF:329:GLN:O	45:BF:333:VAL:HG23	1.96	0.65
44:BG:51:THR:HG21	44:BG:243:ARG:HB3	1.78	0.65
45:BH:284:LEU:HD12	45:BH:284:LEU:O	1.96	0.65
44:BI:434:GLU:O	44:BI:437:ILE:HG12	1.95	0.65
45:BJ:72:THR:O	45:BJ:75:SER:OG	2.14	0.65
44:BM:72:PRO:HG2	45:BN:46:ARG:HH12	1.60	0.65
44:BM:298:PRO:HA	44:BM:301:MET:CE	2.26	0.65
45:CB:8:GLN:O	45:CB:65:LEU:HA	1.95	0.65
45:CB:305:PRO:HB2	45:CB:310:TYR:OH	1.95	0.65
44:CE:288:VAL:HA	44:CE:291:ILE:CG1	2.26	0.65
44:CG:295:ALA:HB1	44:CG:377:MET:CE	2.26	0.65
45:CH:288:GLU:O	45:CH:291:GLN:HG3	1.96	0.65
44:CI:315:CYS:SG	44:CI:379:SER:HB3	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:86:ARG:HB2	45:CJ:89:ASN:OD1	1.96	0.65
45:CN:47:ILE:CG2	45:CN:51:TYR:HB2	2.26	0.65
45:DB:256:ASN:ND2	45:DB:350:LYS:HD2	2.09	0.65
45:DH:70:PRO:HA	45:DH:73:MET:CE	2.25	0.65
44:DI:347:CYS:HA	45:DJ:388:MET:CE	2.12	0.65
44:DI:384:ILE:O	44:DI:387:VAL:HG22	1.97	0.65
45:DL:222:TYR:O	45:DL:226:ASN:N	2.22	0.65
45:DL:304:ASP:OD1	45:DL:306:ARG:HG2	1.96	0.65
45:DN:68:LEU:HG	45:DN:96:GLY:H	1.61	0.65
45:DN:136:THR:HG22	45:DN:167:PHE:CB	2.26	0.65
45:EB:330:MET:SD	45:EB:349:ILE:HD12	2.36	0.65
44:EC:433:GLU:O	44:EC:437:ILE:HG23	1.95	0.65
45:ED:318:ARG:HD3	45:ED:358:PRO:CG	2.26	0.65
45:ED:324:LYS:HE3	44:EE:210:TYR:CD1	2.30	0.65
45:ED:334:GLN:OE1	45:ED:349:ILE:HG13	1.96	0.65
45:EH:64:ILE:HA	45:EH:89:ASN:ND2	2.03	0.65
44:EI:231:ILE:O	44:EI:235:ILE:HD12	1.96	0.65
45:EL:113:ILE:HD13	45:EL:150:LEU:CD2	2.25	0.65
45:EN:24:ILE:HA	45:EN:27:GLU:HG2	1.78	0.65
45:EN:260:PHE:HB3	45:EN:261:PRO:HD2	1.77	0.65
44:FC:71:GLU:OE2	45:FD:2:ARG:NH2	2.30	0.65
44:FC:311:LYS:HA	44:FC:342:GLN:NE2	2.08	0.65
45:FD:42:LEU:HG	45:FD:45:GLU:OE2	1.96	0.65
45:FD:186:THR:HG21	45:FD:385:PHE:CE1	2.31	0.65
44:FG:270:SER:HB3	44:FG:378:ILE:HD13	1.78	0.65
45:FJ:2:ARG:NH2	45:FJ:240:LEU:O	2.29	0.65
45:FL:192:LEU:HD12	45:FL:196:ALA:HB2	1.77	0.65
45:FL:230:SER:HA	45:FL:233:MET:CE	2.26	0.65
45:FN:133:PHE:HB2	45:FN:164:MET:SD	2.36	0.65
44:GA:236:SER:O	44:GA:240:ALA:N	2.30	0.65
44:GA:317:MET:O	44:GA:318:MET:HE2	1.96	0.65
44:GC:224:TYR:HE2	45:GD:246:LEU:HD11	1.61	0.65
45:GF:3:GLU:HB2	45:GF:49:VAL:O	1.96	0.65
45:GF:6:HIS:NE2	45:GF:8:GLN:HB3	2.10	0.65
45:GH:16:ILE:HD11	45:GH:229:VAL:HG11	1.78	0.65
45:GH:187:LEU:HD23	45:GH:411:ALA:CB	2.25	0.65
45:GH:268:ILE:HG22	45:GH:368:VAL:HG12	1.75	0.65
44:GI:315:CYS:SG	44:GI:379:SER:OG	2.53	0.65
45:GJ:325:GLU:HA	45:GJ:328:GLU:HG2	1.78	0.65
45:GN:68:LEU:HB2	45:GN:147:MET:CE	2.26	0.65
44:HA:203:MET:HG2	44:HA:268:MET:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HG:238:LEU:HD21	44:HG:255:PHE:CE2	2.31	0.65
45:HH:113:ILE:CD1	45:HH:150:LEU:HD22	2.26	0.65
45:HH:214:THR:HG21	45:HH:298:ASN:OD1	1.96	0.65
45:HN:50:TYR:O	45:HN:61:PRO:HA	1.96	0.65
45:IB:211:CYS:SG	45:IB:215:LEU:HD12	2.36	0.65
44:IE:294:SER:O	44:IE:300:ASN:ND2	2.30	0.65
45:IJ:294:PHE:CD2	45:IJ:333:VAL:HG11	2.31	0.65
45:IJ:305:PRO:HA	45:IJ:373:ALA:HB2	1.77	0.65
44:JA:297:GLU:OE1	44:JA:300:ASN:N	2.29	0.65
45:JD:283:ALA:O	45:JD:284:LEU:HD22	1.96	0.65
44:JE:1:MET:HE1	45:JH:70:PRO:HG2	1.76	0.65
45:JF:342:VAL:HG13	45:JF:345:ILE:HG22	1.77	0.65
45:JF:372:THR:HA	45:JF:422:TYR:CE2	2.31	0.65
45:JH:101:TRP:HE1	45:JH:146:GLY:HA2	1.61	0.65
45:JH:410:GLU:O	45:JH:413:SER:OG	2.05	0.65
44:JI:11:GLN:HA	44:JI:14:ILE:HG22	1.78	0.65
44:JK:217:LEU:CD1	44:JK:367:ASP:HB3	2.25	0.65
44:JM:209:ILE:CG2	44:JM:227:LEU:HD22	2.25	0.65
44:JM:270:SER:CB	44:JM:378:ILE:HG12	2.26	0.65
45:JN:66:MET:SD	45:JN:151:LEU:HD22	2.36	0.65
45:JN:183:TYR:CE2	45:JN:388:MET:HE3	2.31	0.65
45:KB:165:GLU:OE2	45:KB:250:LEU:HD22	1.95	0.65
45:KB:178:THR:HG22	45:KB:180:VAL:H	1.62	0.65
45:KB:211:CYS:O	45:KB:215:LEU:HB2	1.95	0.65
45:KD:12:CYS:HG	45:KD:138:SER:HG	1.40	0.65
45:KH:8:GLN:NE2	45:KH:17:GLY:HA3	2.10	0.65
45:KH:156:ARG:CD	45:KH:164:MET:HE2	2.21	0.65
45:KJ:396:HIS:HA	45:KJ:399:THR:HG22	1.78	0.65
44:KM:26:LEU:CD1	44:KM:364:PRO:HD2	2.26	0.65
44:KM:224:TYR:HE2	45:KN:246:LEU:HD11	1.61	0.65
45:KN:187:LEU:HD11	45:KN:408:PHE:CZ	2.30	0.65
44:LC:188:ILE:O	44:LC:191:THR:HG22	1.97	0.65
44:LC:210:TYR:CE1	44:LC:227:LEU:HD11	2.32	0.65
44:LE:75:ILE:O	44:LE:78:VAL:HG12	1.95	0.65
44:LE:174:SER:HB2	44:LE:177:VAL:O	1.95	0.65
45:LF:244:GLY:HA2	45:LF:355:ASP:OD2	1.95	0.65
44:LG:105:ARG:HA	44:LG:109:THR:CG2	2.26	0.65
44:LG:313:MET:HG2	44:LG:380:ASN:O	1.96	0.65
44:LG:419:SER:O	44:LG:422:ARG:HG2	1.96	0.65
45:LH:190:HIS:O	45:LH:193:VAL:HG12	1.96	0.65
45:LJ:3:GLU:OE2	45:LJ:127:CYS:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:45:GLU:OE2	45:LJ:46:ARG:HG2	1.96	0.65
45:LN:68:LEU:HG	45:LN:147:MET:CE	2.25	0.65
45:LN:206:ALA:HB1	45:LN:300:MET:HA	1.78	0.65
44:MA:224:TYR:HB3	46:MA:501:GTP:O6	1.97	0.65
44:ME:188:ILE:CD1	44:ME:395:PHE:HB2	2.25	0.65
44:ME:224:TYR:HE2	45:MF:246:LEU:HD11	1.61	0.65
44:MG:290:GLU:HG3	44:MG:291:ILE:H	1.62	0.65
44:MK:270:SER:O	44:MK:302:MET:HB2	1.96	0.65
45:ML:268:ILE:HG13	45:ML:300:MET:CE	2.24	0.65
44:MM:224:TYR:O	44:MM:227:LEU:N	2.29	0.65
44:MM:404:PHE:CE1	45:MN:259:PRO:HA	2.30	0.65
44:MM:414:GLU:HB2	44:MM:417:GLU:CG	2.26	0.65
44:NA:183:GLU:HG2	44:NA:184:PRO:HD3	1.78	0.65
45:NB:7:ILE:O	45:NB:135:ILE:HG12	1.96	0.65
44:NE:287:SER:HB3	44:NE:290:GLU:OE1	1.96	0.65
44:NG:177:VAL:HG22	44:NG:207:GLU:CG	2.26	0.65
44:NG:292:THR:HG21	44:NG:331:SER:HB3	1.77	0.65
45:NH:308:GLY:HA3	45:NH:372:THR:OG1	1.95	0.65
44:NI:165:SER:OG	44:NI:256:GLN:NE2	2.29	0.65
45:NL:31:ASP:HB3	45:NL:37:HIS:CD2	2.31	0.65
44:NM:27:GLU:HG3	44:NM:361:THR:CG2	2.22	0.65
45:NN:69:GLU:OE2	45:NN:72:THR:HG23	1.96	0.65
45:OB:315:ALA:O	45:OB:352:SER:HB3	1.95	0.65
44:OG:258:ASN:OD1	45:OJ:179:VAL:HG12	1.95	0.65
45:OH:2:ARG:CD	45:OH:240:LEU:HG	2.26	0.65
45:OH:348:ASN:O	45:OH:349:ILE:HD13	1.95	0.65
44:OI:154:LEU:HD22	44:OI:166:LYS:NZ	2.11	0.65
44:OI:288:VAL:HA	44:OI:291:ILE:CG1	2.26	0.65
45:OJ:407:GLU:O	45:OJ:410:GLU:HG2	1.95	0.65
44:OM:141:VAL:HG13	44:OM:170:THR:HG21	1.77	0.65
45:PD:5:VAL:HB	45:PD:130:LEU:HD13	1.76	0.65
45:PD:58:ARG:HH11	45:PD:60:VAL:HB	1.59	0.65
45:PD:173:PRO:CG	45:PD:380:ARG:HD3	2.25	0.65
45:PD:323:THR:HA	45:PD:326:VAL:HB	1.78	0.65
45:PF:69:GLU:OE1	45:PF:71:GLY:N	2.29	0.65
45:PF:166:THR:OG1	45:PF:198:GLU:O	2.12	0.65
44:PK:31:GLN:HG3	44:PK:37:PRO:HG3	1.77	0.65
45:PL:135:ILE:CB	45:PL:166:THR:HG22	2.26	0.65
45:PL:403:MET:CE	45:PL:403:MET:HA	2.27	0.65
44:PM:372:MET:SD	44:PM:373:ARG:HG3	2.36	0.65
44:QA:274:PRO:CD	44:QA:374:ALA:HA	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:141:VAL:CG1	44:QE:172:TYR:HA	2.26	0.65
44:QE:203:MET:HA	44:QE:203:MET:CE	2.25	0.65
44:QE:288:VAL:HG11	44:QE:327:ASP:CB	2.22	0.65
45:QF:135:ILE:N	45:QF:165:GLU:O	2.29	0.65
45:QF:290:THR:O	45:QF:293:MET:HG2	1.96	0.65
44:QI:141:VAL:HG11	44:QI:172:TYR:HA	1.78	0.65
44:QI:268:MET:HB2	44:QI:379:SER:C	2.15	0.65
45:QJ:252:LYS:HG3	44:QK:101:ASN:OD1	1.96	0.65
44:QK:103:PHE:HB2	44:QK:186:ASN:HB3	1.78	0.65
44:QM:349:THR:HG1	45:QN:176:SER:HG	0.66	0.65
44:RE:50:ASN:HA	44:RE:53:PHE:O	1.96	0.65
44:RE:288:VAL:CA	44:RE:291:ILE:HG12	2.26	0.65
44:RG:320:ARG:HG3	44:RG:374:ALA:HB3	1.77	0.65
44:RI:282:TYR:OH	44:RI:370:LYS:NZ	2.29	0.65
45:RJ:46:ARG:HG3	45:RJ:46:ARG:HH11	1.62	0.65
45:RJ:143:THR:HG22	48:RJ:501:GDP:PB	2.36	0.65
45:RJ:258:ILE:HB	44:RK:407:TRP:CH2	2.31	0.65
44:RM:201:ALA:O	44:RM:268:MET:N	2.24	0.65
45:RN:283:ALA:O	45:RN:288:GLU:HG3	1.95	0.65
44:SC:141:VAL:HG11	44:SC:172:TYR:HD1	1.61	0.65
45:SD:144:GLY:N	48:SD:501:GDP:O1B	2.28	0.65
44:SE:275:ILE:HG23	44:SE:368:LEU:HD11	1.76	0.65
44:SG:138:PHE:CE1	44:SG:169:PHE:HD2	2.14	0.65
44:SI:247:ALA:HB2	44:SI:357:TYR:OH	1.95	0.65
45:SL:415:MET:O	45:SL:419:VAL:HG23	1.95	0.65
44:SM:259:LEU:O	44:SM:261:PRO:HD3	1.95	0.65
45:SN:23:VAL:HA	45:SN:26:ASP:HB2	1.78	0.65
44:TA:258:ASN:CG	45:TB:179:VAL:HG22	2.17	0.65
45:TB:272:PRO:CD	45:TB:364:ALA:HA	2.25	0.65
45:TD:257:LEU:HB3	45:TD:266:PHE:CE2	2.30	0.65
45:TD:403:MET:HA	45:TD:407:GLU:OE2	1.95	0.65
45:TF:148:GLY:O	45:TF:152:ILE:N	2.20	0.65
45:TF:285:THR:HG23	45:TF:287:PRO:HG2	1.78	0.65
44:TI:97:GLU:HG2	44:TI:105:ARG:HH22	1.61	0.65
45:TJ:312:THR:O	45:TJ:370:ASN:ND2	2.28	0.65
45:TL:32:PRO:HA	45:TL:84:LEU:HD11	1.78	0.65
45:TL:113:ILE:HA	45:TL:116:VAL:HG12	1.76	0.65
44:UC:54:SER:N	44:UC:62:VAL:O	2.29	0.65
44:UC:175:PRO:HB3	44:UC:390:ARG:CZ	2.27	0.65
45:UD:3:GLU:OE1	45:UD:3:GLU:N	2.27	0.65
45:UD:69:GLU:OE2	45:UD:72:THR:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:113:ILE:HD11	45:UD:150:LEU:HD22	1.77	0.65
45:UH:4:ILE:O	45:UH:62:ARG:HD2	1.95	0.65
44:UI:60:LYS:NZ	44:UI:86:LEU:HA	2.11	0.65
45:UJ:39:ASP:OD1	45:UJ:40:SER:N	2.29	0.65
45:UJ:256:ASN:ND2	45:UJ:350:LYS:HD2	2.11	0.65
45:UJ:288:GLU:O	45:UJ:291:GLN:HG3	1.96	0.65
44:UM:317:MET:CG	44:UM:378:ILE:H	2.08	0.65
44:VA:4:VAL:HG23	44:VA:134:GLY:O	1.96	0.65
45:VB:22:GLU:HG2	45:VB:81:PHE:CD1	2.31	0.65
45:VB:22:GLU:O	45:VB:26:ASP:N	2.23	0.65
45:VB:321:MET:HG2	45:VB:363:MET:HE1	1.78	0.65
44:VC:174:SER:HB2	44:VC:177:VAL:O	1.96	0.65
44:VE:9:VAL:HG21	44:VE:149:LEU:CB	2.26	0.65
44:VE:195:LEU:HD12	44:VE:267:PHE:HE1	1.61	0.65
45:VF:2:ARG:CZ	45:VF:240:LEU:HG	2.26	0.65
44:VK:261:PRO:HA	45:VN:394:PHE:HD1	1.60	0.65
45:VL:2:ARG:NH2	45:VL:240:LEU:HG	2.11	0.65
44:WA:226:ASN:HD22	44:WA:229:ARG:HH22	1.42	0.65
44:WG:70:LEU:HD13	44:WG:110:ILE:HD11	1.77	0.65
44:WI:392:ASP:OD2	44:WI:422:ARG:NH1	2.29	0.65
45:WJ:86:ARG:HG2	45:WJ:89:ASN:HD21	1.62	0.65
45:WJ:119:VAL:HG22	45:WJ:123:GLU:HG2	1.77	0.65
45:WJ:133:PHE:HB2	45:WJ:164:MET:HE2	1.78	0.65
45:WL:308:GLY:HA3	45:WL:373:ALA:HB2	1.77	0.65
9:1H:86:LYS:HE3	44:HK:370:LYS:HD3	1.79	0.65
25:1P:270:ILE:HG12	44:SE:58:ALA:CB	2.25	0.65
25:1P:399:GLN:NE2	44:TA:279:GLU:OE2	2.21	0.65
27:1W:189:ARG:NH2	44:LA:40:LYS:O	2.28	0.65
28:2C:4:TYR:HB2	45:LJ:359:LYS:NZ	2.09	0.65
5:2D:50:SER:HB3	45:DJ:53:GLU:CG	2.15	0.65
5:2D:50:SER:CB	45:DJ:53:GLU:HG3	2.24	0.65
29:2F:93:GLU:OE2	44:HE:299:ALA:HA	1.96	0.65
32:2I:70:PHE:CE1	44:FE:130:THR:HB	2.31	0.65
12:2S:104:THR:HG22	45:MJ:156:ARG:NH2	2.11	0.65
12:3S:140:ARG:CD	11:5Q:72:LYS:HB2	2.21	0.65
12:3S:312:THR:HG22	44:AM:402:ARG:HG2	1.76	0.65
37:5B:102:TYR:CE2	44:KE:394:LYS:HE2	2.16	0.65
37:5C:102:TYR:CD1	44:KI:394:LYS:CD	2.77	0.65
37:5D:35:PHE:CD2	44:KK:434:GLU:HB3	2.30	0.65
37:5D:56:ILE:CD1	45:KN:390:ARG:HB3	2.24	0.65
37:5D:107:TYR:CB	44:NM:277:SER:HB2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5E:200:LEU:HD22	44:LC:422:ARG:HH12	1.60	0.65
38:5E:202:LYS:HE2	44:LC:422:ARG:NH2	2.12	0.65
38:5G:22:LYS:HE3	38:5G:30:PRO:HG3	1.78	0.65
38:5G:74:ASP:HB2	38:5G:104:MET:CB	2.25	0.65
35:5R:17:PHE:HE2	45:LJ:219:THR:H	1.43	0.65
35:5R:379:LYS:HD3	35:5R:381:PHE:CD2	2.31	0.65
36:5S:144:ILE:HG23	36:5S:145:PRO:CD	2.23	0.65
35:7R:94:ARG:CG	35:7R:184:ASP:HB2	2.26	0.65
44:AA:13:GLY:O	44:AA:17:GLY:N	2.26	0.65
45:AB:285:THR:HG22	45:AB:288:GLU:OE2	1.96	0.65
44:AC:68:LEU:HD21	44:AC:118:CYS:HB2	1.78	0.65
45:AD:40:SER:OG	45:AD:43:GLN:HG3	1.97	0.65
44:AE:276:ILE:HD11	44:AE:280:LYS:HD2	1.79	0.65
45:AF:299:MET:HG3	45:AF:305:PRO:CG	2.26	0.65
44:AG:385:ALA:HB2	44:AG:432:TYR:HD2	1.59	0.65
44:BA:185:TYR:HE2	44:BA:404:PHE:HB2	1.60	0.65
44:BC:141:VAL:CG1	44:BC:172:TYR:HA	2.27	0.65
44:BE:258:ASN:O	45:BH:179:VAL:HG21	1.96	0.65
45:BF:8:GLN:HG3	45:BF:14:ASN:OD1	1.96	0.65
45:BF:147:MET:HA	45:BF:150:LEU:HD21	1.78	0.65
44:BG:238:LEU:HD21	44:BG:255:PHE:HE2	1.62	0.65
45:BH:22:GLU:HG2	45:BH:81:PHE:CD2	2.31	0.65
44:BK:200:VAL:HG13	44:BK:268:MET:CE	2.26	0.65
44:BK:288:VAL:HG11	44:BK:327:ASP:HB3	1.76	0.65
44:BM:210:TYR:HE1	45:BN:324:LYS:CA	2.08	0.65
45:BN:73:MET:CE	45:BN:92:PHE:HB3	2.23	0.65
44:CA:63:PRO:HG2	44:CA:87:PHE:HA	1.79	0.65
44:CA:311:LYS:CD	44:CA:342:GLN:HG3	2.26	0.65
45:CB:316:LEU:HG	45:CB:352:SER:CB	2.25	0.65
45:CB:362:LYS:HE3	45:CB:362:LYS:HA	1.79	0.65
44:CC:51:THR:HG22	44:CC:52:PHE:CD1	2.31	0.65
44:CE:68:LEU:HD21	44:CE:118:CYS:CB	2.25	0.65
44:CI:413:MET:HE2	44:CI:413:MET:N	2.11	0.65
45:CJ:237:THR:HG22	45:CJ:250:LEU:CD2	2.24	0.65
44:CK:387:VAL:HG12	44:CK:390:ARG:HH11	1.62	0.65
44:CM:152:LEU:O	44:CM:156:ARG:NH1	2.29	0.65
44:CM:185:TYR:OH	44:CM:403:ALA:O	2.10	0.65
44:CM:386:GLU:O	44:CM:390:ARG:HG2	1.96	0.65
44:DA:192:HIS:ND1	44:DA:421:ALA:HA	2.11	0.65
44:DC:242:LEU:HD11	44:DC:252:ILE:HG13	1.76	0.65
45:DF:8:GLN:HE22	45:DF:16:ILE:HB	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:318:ARG:HH11	45:DF:358:PRO:HG3	1.60	0.65
44:DG:188:ILE:CG2	44:DG:425:LEU:HD11	2.27	0.65
44:DG:268:MET:CG	44:DG:380:ASN:HB2	2.26	0.65
44:DI:51:THR:HB	44:DI:243:ARG:HD3	1.77	0.65
44:DI:268:MET:HB3	44:DI:380:ASN:HB2	1.78	0.65
45:DJ:198:GLU:OE2	45:DJ:254:ALA:HB2	1.97	0.65
44:DK:188:ILE:HG22	44:DK:421:ALA:HB1	1.78	0.65
44:DK:242:LEU:HD11	44:DK:252:ILE:HG13	1.78	0.65
44:DM:191:THR:O	44:DM:195:LEU:HB2	1.96	0.65
44:DM:248:LEU:HB3	44:DM:355:ILE:CD1	2.26	0.65
44:DM:350:GLY:CA	45:DN:179:VAL:HG12	2.26	0.65
44:EA:405:VAL:O	44:EA:409:VAL:HG23	1.96	0.65
45:EB:27:GLU:OE2	45:EB:241:ARG:NH1	2.24	0.65
44:EC:262:TYR:CZ	45:ED:393:ALA:HA	2.32	0.65
44:EE:201:ALA:HB3	44:EE:267:PHE:CD1	2.31	0.65
44:EG:319:TYR:HB2	44:EG:354:GLY:O	1.96	0.65
44:EI:200:VAL:HG13	44:EI:268:MET:CE	2.26	0.65
44:EM:101:ASN:HA	44:EM:144:GLY:CA	2.26	0.65
44:EM:316:SER:N	44:EM:378:ILE:O	2.19	0.65
45:FB:27:GLU:OE2	45:FB:28:HIS:ND1	2.29	0.65
44:FC:224:TYR:CE2	45:FD:246:LEU:HD11	2.32	0.65
44:FC:407:TRP:CZ3	45:FD:255:VAL:HA	2.31	0.65
45:FD:377:MET:O	45:FD:380:ARG:HG2	1.96	0.65
44:FE:3:GLU:HG3	44:FE:129:CYS:CB	2.22	0.65
44:FG:70:LEU:HD12	44:FG:145:THR:OG1	1.97	0.65
44:FI:19:ALA:HA	44:FI:22:GLU:OE1	1.96	0.65
45:FJ:173:PRO:HG3	45:FJ:384:GLN:NE2	2.11	0.65
44:FK:145:THR:OG1	44:FK:149:LEU:HD23	1.97	0.65
44:FM:79:ARG:NH1	44:FM:94:SER:OG	2.24	0.65
45:GB:97:ALA:CB	45:GB:143:THR:HB	2.27	0.65
44:GC:434:GLU:O	44:GC:437:ILE:HG12	1.97	0.65
44:GE:27:GLU:HG2	44:GE:361:THR:CG2	2.26	0.65
45:GF:304:ASP:OD1	45:GF:306:ARG:HG2	1.95	0.65
44:GG:269:LEU:HD23	44:GG:269:LEU:H	1.60	0.65
44:GI:242:LEU:HD21	44:GI:252:ILE:CD1	2.27	0.65
45:GJ:170:VAL:HG22	45:GJ:171:PRO:HD2	1.78	0.65
45:GJ:234:SER:O	45:GJ:238:CYS:HB3	1.96	0.65
44:GK:205:ASP:OD1	44:GK:303:ALA:HA	1.97	0.65
44:GK:251:ASP:HB2	44:GK:257:THR:OG1	1.97	0.65
44:GK:311:LYS:HB2	44:GK:382:THR:CG2	2.25	0.65
44:GK:326:LYS:HE2	45:GN:220:PRO:CD	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:23:LEU:CD2	44:GM:236:SER:HB2	2.25	0.65
44:GM:115:VAL:HG22	44:GM:119:LEU:CD2	2.27	0.65
45:GN:8:GLN:HB3	45:GN:13:GLY:CA	2.26	0.65
45:GN:132:GLY:HA2	45:GN:162:ARG:HB3	1.79	0.65
45:HB:217:LEU:HD23	45:HB:217:LEU:H	1.62	0.65
44:HG:326:LYS:HG2	45:HJ:220:PRO:HD2	1.77	0.65
44:HI:195:LEU:CD2	44:HI:196:GLU:HG2	2.27	0.65
45:HL:134:GLN:O	45:HL:134:GLN:HG3	1.96	0.65
45:HL:184:ASN:OD1	45:HL:185:ALA:N	2.30	0.65
45:HL:309:ARG:HH22	45:HL:340:TYR:C	1.99	0.65
44:IC:311:LYS:HD2	44:IC:342:GLN:HG3	1.78	0.65
45:IF:143:THR:HG22	48:IF:501:GDP:O1B	1.96	0.65
45:IH:36:TYR:CE1	45:IH:44:LEU:HG	2.32	0.65
44:II:189:LEU:HD11	44:II:418:PHE:CE1	2.30	0.65
44:II:237:SER:HA	44:II:320:ARG:NH1	2.11	0.65
45:IN:5:VAL:HG12	45:IN:62:ARG:HD3	1.79	0.65
44:JA:88:HIS:HB3	44:JA:91:GLN:CG	2.25	0.65
45:JB:207:LEU:HB3	45:JB:225:LEU:CD2	2.25	0.65
45:JD:404:ASP:OD1	45:JD:407:GLU:HG3	1.95	0.65
44:JK:220:GLU:HB2	44:JK:221:ARG:HH11	1.60	0.65
44:JK:296:PHE:HE2	44:JK:335:ILE:HG21	1.61	0.65
44:JM:150:GLY:O	44:JM:154:LEU:HG	1.96	0.65
45:JN:403:MET:HG2	45:JN:407:GLU:OE2	1.96	0.65
45:KB:287:PRO:HA	45:KB:290:THR:HG22	1.78	0.65
45:KF:201:VAL:HG11	45:KF:377:MET:SD	2.37	0.65
44:KG:205:ASP:OD2	44:KG:304:LYS:N	2.19	0.65
45:KH:182:PRO:O	45:KH:186:THR:HG23	1.95	0.65
45:KH:267:MET:HE1	45:KH:299:MET:HG2	1.77	0.65
44:KI:254:GLU:OE2	45:KL:98:GLY:HA2	1.96	0.65
44:KI:287:SER:O	44:KI:291:ILE:HG23	1.96	0.65
44:KK:372:MET:O	44:KK:373:ARG:HG3	1.96	0.65
45:KL:60:VAL:HG23	45:KL:84:LEU:O	1.97	0.65
45:KL:114:ASP:OD1	45:KL:115:SER:N	2.29	0.65
44:KM:268:MET:HG3	44:KM:380:ASN:HA	1.78	0.65
45:LN:267:MET:CE	45:LN:301:CYS:HB3	2.26	0.65
45:LN:298:ASN:ND2	45:LN:298:ASN:O	2.30	0.65
44:MA:317:MET:CE	44:MA:377:MET:HG2	2.26	0.65
45:MB:221:THR:HG23	45:MB:223:GLY:H	1.59	0.65
44:MC:434:GLU:O	44:MC:437:ILE:HG12	1.95	0.65
44:MG:155:GLU:HG2	44:MG:197:HIS:CD2	2.32	0.65
44:MI:363:VAL:CG1	44:MI:364:PRO:HD2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:209:ASP:OD1	45:MJ:213:ARG:HD3	1.96	0.65
44:NA:137:VAL:O	44:NA:168:GLY:HA2	1.96	0.65
45:ND:12:CYS:HB2	45:ND:138:SER:HB2	1.78	0.65
44:NE:332:ILE:HG23	44:NE:351:PHE:CE2	2.32	0.65
45:NF:170:VAL:HG23	45:NF:171:PRO:HD2	1.76	0.65
45:NH:257:LEU:HD21	45:NH:314:SER:HB2	1.78	0.65
44:NK:56:THR:HG23	44:NK:58:ALA:N	2.11	0.65
45:NL:342:VAL:HG13	45:NL:345:ILE:HG22	1.76	0.65
44:NM:177:VAL:CG1	45:NN:331:LEU:HB2	2.27	0.65
44:NM:276:ILE:N	44:NM:368:LEU:HD12	2.11	0.65
45:NN:269:GLY:O	45:NN:367:PHE:N	2.24	0.65
45:OB:110:ALA:O	45:OB:113:ILE:HG22	1.96	0.65
45:OB:135:ILE:CG1	45:OB:152:ILE:HD11	2.26	0.65
44:OC:11:GLN:O	44:OC:15:GLN:N	2.26	0.65
44:OC:115:VAL:O	44:OC:119:LEU:HD23	1.97	0.65
44:OC:205:ASP:OD2	44:OC:304:LYS:N	2.27	0.65
44:OE:54:SER:HB3	44:OE:64:ARG:NH2	2.12	0.65
44:OE:272:TYR:HD2	44:OE:275:ILE:HD11	1.61	0.65
45:OJ:141:GLY:HA3	48:OJ:501:GDP:PA	2.35	0.65
45:OJ:380:ARG:O	45:OJ:383:GLU:HG3	1.96	0.65
44:OK:259:LEU:HD11	44:OK:316:SER:CB	2.27	0.65
45:OL:149:THR:HG21	45:OL:188:SER:HB2	1.79	0.65
45:OL:180:VAL:HG12	45:OL:180:VAL:O	1.97	0.65
44:OM:75:ILE:CD1	44:OM:92:LEU:HD23	2.25	0.65
45:ON:11:GLN:HA	45:ON:72:THR:CG2	2.27	0.65
45:ON:18:ALA:O	45:ON:22:GLU:HG2	1.96	0.65
45:PB:178:THR:HB	45:PB:181:GLU:CG	2.26	0.65
44:PC:137:VAL:HG21	44:PC:154:LEU:HD21	1.79	0.65
44:PC:383:ALA:O	44:PC:386:GLU:HG2	1.96	0.65
45:PD:253:LEU:HB3	45:PD:257:LEU:HD13	1.77	0.65
45:PJ:19:LYS:HE3	45:PJ:227:HIS:CA	2.26	0.65
44:PM:295:ALA:HB1	44:PM:377:MET:SD	2.36	0.65
44:PM:318:MET:CG	44:PM:376:CYS:HB3	2.26	0.65
45:PN:257:LEU:HD11	45:PN:314:SER:HB2	1.78	0.65
45:PN:403:MET:HE3	45:PN:404:ASP:H	1.61	0.65
44:QA:75:ILE:HG23	44:QA:92:LEU:HB3	1.77	0.65
44:QC:28:HIS:CE1	44:QC:243:ARG:HD2	2.31	0.65
45:QD:163:ILE:HD11	45:QD:250:LEU:HD12	1.78	0.65
44:QE:265:ILE:CD1	44:QE:435:VAL:HG21	2.26	0.65
44:QK:3:GLU:HG2	44:QK:64:ARG:NH2	2.11	0.65
44:QK:6:SER:CA	44:QK:136:LEU:HB2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:322:SER:OG	44:QM:222:PRO:O	2.08	0.65
44:RA:3:GLU:HG2	44:RA:64:ARG:HH12	1.61	0.65
45:RD:374:ILE:HA	45:RD:377:MET:HE2	1.78	0.65
44:RE:70:LEU:HD11	44:RE:149:LEU:CD2	2.26	0.65
44:RG:265:ILE:HG23	44:RG:432:TYR:OH	1.96	0.65
44:RG:269:LEU:CD1	44:RG:305:CYS:HB3	2.26	0.65
45:RJ:286:VAL:HB	45:RJ:325:GLU:OE1	1.96	0.65
44:RK:188:ILE:O	44:RK:192:HIS:N	2.30	0.65
44:RK:271:SER:OG	44:RK:377:MET:HB2	1.96	0.65
45:RL:69:GLU:OE2	45:RL:70:PRO:HD2	1.95	0.65
44:RM:248:LEU:HD23	44:RM:354:GLY:HA2	1.78	0.65
45:RN:44:LEU:HA	45:RN:47:ILE:CG2	2.26	0.65
44:SA:13:GLY:HA2	44:SA:139:ASN:HA	1.79	0.65
44:SA:212:ILE:HG13	44:SA:215:ARG:NH2	2.11	0.65
44:SA:321:GLY:HA3	44:SA:373:ARG:NH1	2.11	0.65
45:SB:257:LEU:HD11	45:SB:314:SER:CB	2.27	0.65
45:SD:52:ASN:N	45:SD:60:VAL:O	2.25	0.65
45:SF:131:GLN:CG	45:SF:250:LEU:HD12	2.26	0.65
44:SG:214:ARG:HH22	44:SG:220:GLU:HB3	1.61	0.65
44:SI:154:LEU:HD23	44:SI:157:LEU:CD1	2.26	0.65
44:SI:208:ALA:O	44:SI:212:ILE:HG12	1.97	0.65
45:SJ:262:ARG:NH1	45:SJ:421:GLU:OE1	2.29	0.65
45:SJ:317:PHE:CZ	45:SJ:326:VAL:HG13	2.32	0.65
44:SK:275:ILE:CD1	44:SK:368:LEU:HD11	2.16	0.65
44:SM:215:ARG:NH2	44:SM:299:ALA:O	2.29	0.65
45:SN:254:ALA:HA	45:SN:258:ILE:CD1	2.26	0.65
45:TB:237:THR:HG23	45:TB:241:ARG:HE	1.60	0.65
44:TC:25:CYS:HB3	44:TC:30:ILE:O	1.95	0.65
44:TC:195:LEU:HD12	44:TC:266:HIS:NE2	2.10	0.65
44:TC:262:TYR:HB2	44:TC:265:ILE:HD12	1.78	0.65
44:TE:274:PRO:CD	44:TE:374:ALA:HA	2.26	0.65
45:TF:66:MET:SD	45:TF:116:VAL:HG21	2.37	0.65
45:TF:337:ASN:HB3	45:TF:340:TYR:CB	2.16	0.65
44:TG:274:PRO:HD2	44:TG:374:ALA:CB	2.26	0.65
45:TH:322:SER:OG	44:TI:221:ARG:NH1	2.29	0.65
44:TI:177:VAL:N	44:TI:207:GLU:OE2	2.27	0.65
44:TI:210:TYR:HE1	44:TI:227:LEU:HD11	1.59	0.65
45:TJ:206:ALA:O	45:TJ:210:ILE:HG13	1.95	0.65
44:TK:439:THR:HG21	45:TL:390:ARG:HD2	1.77	0.65
45:UD:4:ILE:HG22	45:UD:132:GLY:N	2.12	0.65
44:UE:111:GLY:O	44:UE:115:VAL:HB	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:219:ILE:HG21	44:UI:222:PRO:HB3	1.78	0.65
45:UJ:23:VAL:HG21	45:UJ:230:SER:HB3	1.77	0.65
45:UJ:55:THR:N	45:VJ:282:ARG:O	2.28	0.65
45:UJ:235:GLY:HA3	45:UJ:366:THR:HG21	1.77	0.65
44:UK:326:LYS:HE2	45:UL:220:PRO:CD	2.24	0.65
45:UN:212:PHE:HB2	45:UN:213:ARG:HH11	1.61	0.65
45:UN:296:ALA:HA	45:UN:299:MET:HE2	1.78	0.65
45:VB:67:ASP:OD1	45:VB:68:LEU:N	2.29	0.65
44:VC:223:THR:HB	45:VD:322:SER:HB2	1.77	0.65
45:VF:200:MET:HB3	45:VF:266:PHE:HB2	1.78	0.65
45:VN:4:ILE:HG22	45:VN:132:GLY:H	1.59	0.65
44:WA:175:PRO:HD2	44:WA:207:GLU:OE1	1.96	0.65
45:WB:242:PHE:HD2	45:WB:356:ILE:HB	1.61	0.65
45:WB:398:TYR:HB3	45:WB:403:MET:CE	2.26	0.65
44:WC:80:THR:HA	44:WC:84:ARG:NH2	2.11	0.65
45:WD:372:THR:HA	45:WD:422:TYR:CE2	2.32	0.65
45:WH:204:ASN:OD1	45:WH:205:GLU:N	2.29	0.65
44:WK:151:SER:O	44:WK:155:GLU:HG3	1.96	0.65
45:WL:270:PHE:CD2	45:WL:273:LEU:HD21	2.32	0.65
45:WN:69:GLU:CD	45:WN:71:GLY:H	1.99	0.65
45:WN:117:LEU:HG	45:WN:121:ARG:HH12	1.59	0.65
45:WN:134:GLN:HA	45:WN:165:GLU:O	1.97	0.65
45:WN:141:GLY:HA3	48:WN:501:GDP:PB	2.36	0.65
2:0A:91:ASN:HB3	45:MB:37:HIS:NE2	2.11	0.65
26:1R:193:TYR:HB2	44:AC:39:ASP:OD1	1.97	0.65
5:2D:27:ILE:CD1	45:DJ:39:ASP:HB3	2.26	0.65
32:2I:142:LEU:HD11	45:GD:297:LYS:HE3	1.76	0.65
37:5B:79:LEU:HD11	45:NF:245:GLN:NE2	2.11	0.65
37:5B:102:TYR:CD1	44:KE:394:LYS:CD	2.76	0.65
37:5C:39:ARG:NH1	44:KG:264:ARG:HB3	2.11	0.65
37:5D:38:THR:C	44:KK:262:TYR:HB2	2.16	0.65
38:5H:119:GLU:HB3	38:5H:122:PHE:CD2	2.31	0.65
39:5I:72:PHE:HA	39:5I:75:ILE:HD11	1.77	0.65
35:5R:363:ASN:OD1	35:5R:364:MET:N	2.28	0.65
35:7R:275:ILE:HB	35:7R:288:LYS:HB2	1.77	0.65
42:8L:301:UNK:O	42:8L:305:UNK:N	2.28	0.65
44:AC:22:GLU:HG3	44:AC:83:TYR:CE2	2.32	0.65
44:AC:288:VAL:HG11	44:AC:327:ASP:HB3	1.76	0.65
45:AD:7:ILE:HD12	45:AD:64:ILE:O	1.97	0.65
45:AF:73:MET:HE3	45:AF:92:PHE:HB3	1.75	0.65
44:AG:203:MET:O	44:AG:204:LEU:HD23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:226:ASN:ND2	44:AI:367:ASP:OD2	2.29	0.65
45:AJ:293:MET:HE1	45:AJ:315:ALA:HA	1.78	0.65
45:AJ:345:ILE:HG23	45:AJ:345:ILE:O	1.96	0.65
44:AK:155:GLU:HG2	44:AK:197:HIS:ND1	2.10	0.65
44:BC:174:SER:HB2	44:BC:177:VAL:O	1.96	0.65
45:BD:178:THR:HG22	45:BD:179:VAL:N	2.10	0.65
45:BD:388:MET:CG	45:BD:393:ALA:HB3	2.24	0.65
44:BE:129:CYS:HB2	44:BE:132:LEU:CD2	2.27	0.65
45:BH:173:PRO:HD3	45:BH:380:ARG:CD	2.25	0.65
45:BH:257:LEU:HA	45:BH:312:THR:HG21	1.79	0.65
44:BI:22:GLU:HG3	44:BI:83:TYR:OH	1.95	0.65
45:BL:8:GLN:O	45:BL:66:MET:HG2	1.96	0.65
45:BL:130:LEU:HG	45:BL:162:ARG:CD	2.26	0.65
45:BL:150:LEU:O	45:BL:153:SER:OG	2.08	0.65
44:BM:175:PRO:HD2	44:BM:207:GLU:OE1	1.97	0.65
44:CA:270:SER:OG	44:CA:378:ILE:HA	1.95	0.65
45:CB:207:LEU:CB	45:CB:225:LEU:HD22	2.25	0.65
44:CC:294:SER:O	44:CC:297:GLU:HG2	1.96	0.65
45:CD:49:VAL:HG12	45:CD:50:TYR:CD1	2.32	0.65
45:CD:260:PHE:HB3	45:CD:261:PRO:HD2	1.79	0.65
45:CJ:186:THR:HG21	45:CJ:385:PHE:CE1	2.32	0.65
44:CK:88:HIS:HB3	44:CK:91:GLN:HG2	1.78	0.65
44:CK:141:VAL:HG21	44:CK:190:SER:OG	1.97	0.65
45:CL:105:HIS:CD2	45:CL:150:LEU:HB2	2.31	0.65
45:CL:146:GLY:O	45:CL:149:THR:HG22	1.96	0.65
45:DB:6:HIS:HE2	45:DB:8:GLN:CB	2.08	0.65
45:DB:284:LEU:HD11	45:DB:361:LEU:CD1	2.27	0.65
44:DC:7:ILE:CD1	44:DC:135:PHE:HB3	2.26	0.65
44:DC:113:GLU:O	44:DC:114:ILE:HD13	1.96	0.65
45:DD:5:VAL:HG12	45:DD:62:ARG:HD3	1.79	0.65
44:DG:138:PHE:CD1	44:DG:169:PHE:HB2	2.31	0.65
44:DG:145:THR:N	46:DG:501:GTP:O2G	2.28	0.65
45:DH:133:PHE:O	45:DH:165:GLU:N	2.29	0.65
44:DI:51:THR:HG22	44:DI:52:PHE:CD1	2.32	0.65
44:DI:203:MET:CA	44:DI:203:MET:HE3	2.26	0.65
45:DJ:287:PRO:O	45:DJ:290:THR:HG22	1.95	0.65
44:DK:205:ASP:OD1	44:DK:303:ALA:HA	1.96	0.65
44:EA:236:SER:O	44:EA:320:ARG:NH2	2.29	0.65
44:EC:111:GLY:O	44:EC:115:VAL:HG12	1.96	0.65
44:EC:393:HIS:O	44:EC:397:LEU:HG	1.96	0.65
45:ED:269:GLY:HA2	45:ED:300:MET:HE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:411:ALA:O	45:ED:415:MET:HG3	1.96	0.65
45:EF:64:ILE:HG13	45:EF:89:ASN:HD22	1.62	0.65
45:EF:288:GLU:O	45:EF:291:GLN:HG3	1.95	0.65
44:EG:204:LEU:HD23	44:EG:302:MET:HG3	1.78	0.65
44:EM:217:LEU:HD22	44:EM:367:ASP:HB3	1.78	0.65
44:FA:257:THR:HG22	45:FD:397:TRP:CZ2	2.32	0.65
44:FC:279:GLU:C	44:FC:280:LYS:HD3	2.17	0.65
44:FE:3:GLU:OE2	44:FE:132:LEU:N	2.30	0.65
44:FE:242:LEU:HD21	44:FE:251:ASP:HA	1.77	0.65
45:FJ:97:ALA:HB3	45:FJ:143:THR:HB	1.78	0.65
44:FK:60:LYS:NZ	44:FK:85:GLN:O	2.27	0.65
44:FM:71:GLU:OE1	44:FM:74:VAL:HG13	1.96	0.65
44:FM:209:ILE:HG22	44:FM:227:LEU:HD22	1.78	0.65
45:FN:55:THR:OG1	45:GN:280:GLN:O	2.14	0.65
45:FN:66:MET:HG3	45:FN:147:MET:HE1	1.77	0.65
44:GA:222:PRO:HD2	45:GB:324:LYS:NZ	2.10	0.65
44:GA:258:ASN:ND2	45:GD:179:VAL:HG22	2.11	0.65
44:GA:338:LYS:HB2	44:GA:341:ILE:CG2	2.26	0.65
44:GC:121:ARG:HD3	44:GC:125:LEU:HD21	1.79	0.65
44:GE:60:LYS:HD3	44:HE:283:HIS:NE2	2.10	0.65
44:GG:71:GLU:OE1	44:GG:73:THR:HG23	1.95	0.65
45:GJ:121:ARG:NH2	45:GJ:158:GLU:OE2	2.30	0.65
44:GK:217:LEU:HD21	44:GK:368:LEU:CD2	2.27	0.65
45:GL:100:ASN:ND2	45:GL:401:GLU:OE1	2.29	0.65
44:GM:6:SER:C	44:GM:7:ILE:HD13	2.17	0.65
44:GM:188:ILE:CG2	44:GM:421:ALA:HB1	2.27	0.65
44:HA:261:PRO:HG3	45:HD:394:PHE:CZ	2.31	0.65
45:HB:69:GLU:OE1	45:HB:71:GLY:N	2.30	0.65
44:HC:258:ASN:HD22	44:HC:352:LYS:HB2	1.61	0.65
44:HG:315:CYS:HA	44:HG:379:SER:HB3	1.76	0.65
45:HH:131:GLN:HA	45:HH:162:ARG:NH1	2.11	0.65
45:HH:167:PHE:HE1	45:HH:233:MET:HG3	1.61	0.65
44:HM:323:VAL:CG1	44:HM:355:ILE:HG12	2.26	0.65
44:IA:217:LEU:HD22	44:IA:367:ASP:HB3	1.78	0.65
44:IA:296:PHE:HE2	44:IA:335:ILE:HG21	1.60	0.65
45:IB:314:SER:HA	45:IB:350:LYS:O	1.97	0.65
44:IC:274:PRO:HG3	44:IC:286:LEU:HD12	1.78	0.65
45:IF:332:ASN:OD1	45:IF:336:LYS:NZ	2.29	0.65
44:IK:10:GLY:HA2	44:IK:145:THR:CG2	2.25	0.65
45:IL:151:LEU:O	45:IL:155:VAL:HG12	1.96	0.65
45:IL:372:THR:HA	45:IL:422:TYR:CE2	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JA:223:THR:HG22	44:JA:226:ASN:OD1	1.97	0.65
45:JB:309:ARG:NH2	45:JB:426:GLN:O	2.30	0.65
45:JF:97:ALA:HB2	45:JF:143:THR:HG22	1.78	0.65
45:JF:189:VAL:HG11	45:JF:415:MET:SD	2.35	0.65
44:JG:247:ALA:HB1	45:JJ:222:TYR:CD2	2.30	0.65
44:JG:269:LEU:O	44:JG:379:SER:OG	2.12	0.65
45:JJ:166:THR:OG1	45:JJ:199:CYS:HA	1.96	0.65
44:JK:318:MET:HB2	44:JK:376:CYS:SG	2.36	0.65
45:JL:105:HIS:CE1	45:JL:150:LEU:HD13	2.31	0.65
44:JM:194:LEU:HD12	44:JM:194:LEU:O	1.97	0.65
45:KB:316:LEU:O	45:KB:365:VAL:HG13	1.95	0.65
44:KE:260:VAL:HG13	44:KE:260:VAL:O	1.94	0.65
44:KI:121:ARG:NE	44:KI:121:ARG:HA	2.12	0.65
44:KK:41:THR:O	44:KK:41:THR:HG22	1.96	0.65
45:KL:334:GLN:NE2	45:KL:348:ASN:OD1	2.28	0.65
44:KM:157:LEU:HA	44:KM:160:ASP:HB3	1.79	0.65
44:KM:252:ILE:HA	44:KM:255:PHE:CE2	2.31	0.65
44:KM:399:TYR:O	44:KM:402:ARG:NH1	2.30	0.65
45:LB:344:TRP:CE3	45:LB:345:ILE:HG23	2.32	0.65
44:LG:88:HIS:ND1	44:LG:90:GLU:HG2	2.12	0.65
44:LG:247:ALA:HB1	45:LJ:222:TYR:CD2	2.32	0.65
44:LI:181:VAL:N	45:LJ:256:ASN:HD21	1.94	0.65
44:LM:176:GLN:O	45:LN:331:LEU:HD13	1.97	0.65
44:LM:405:VAL:O	44:LM:409:VAL:HG23	1.96	0.65
44:MA:115:VAL:HG22	44:MA:119:LEU:HD23	1.78	0.65
45:MB:142:GLY:O	45:MB:146:GLY:N	2.21	0.65
44:MC:288:VAL:HA	44:MC:291:ILE:HG12	1.79	0.65
44:ME:161:TYR:O	44:ME:164:LYS:NZ	2.26	0.65
44:MM:20:CYS:HA	44:MM:232:ALA:CB	2.27	0.65
45:MN:2:ARG:HA	45:MN:129:CYS:O	1.96	0.65
45:MN:97:ALA:CB	45:MN:143:THR:HB	2.27	0.65
44:NC:399:TYR:O	44:NC:402:ARG:HD3	1.96	0.65
44:NE:47:ASP:HB3	44:NE:50:ASN:HB2	1.78	0.65
44:NI:51:THR:HG21	44:NI:243:ARG:HD3	1.78	0.65
44:NI:221:ARG:HD2	45:NJ:325:GLU:OE2	1.96	0.65
44:NK:26:LEU:CD1	44:NK:363:VAL:HG13	2.26	0.65
44:NK:185:TYR:CE2	44:NK:404:PHE:HB2	2.25	0.65
44:NM:118:CYS:O	44:NM:122:ILE:HD12	1.97	0.65
45:NN:67:ASP:OD1	45:NN:68:LEU:N	2.30	0.65
45:OF:110:ALA:O	45:OF:113:ILE:HG22	1.97	0.65
45:OF:119:VAL:HG23	45:OF:122:LYS:CE	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:266:PHE:CE1	45:OF:370:ASN:HB2	2.31	0.65
44:OG:222:PRO:CD	45:OH:324:LYS:HD3	2.26	0.65
44:OI:371:VAL:HG12	44:OI:373:ARG:H	1.62	0.65
44:OK:11:GLN:HE22	44:OK:71:GLU:HB3	1.60	0.65
45:OL:19:LYS:HA	45:OL:22:GLU:OE1	1.97	0.65
44:OM:321:GLY:O	44:OM:357:TYR:HA	1.96	0.65
44:PA:115:VAL:HB	44:PA:152:LEU:HD23	1.79	0.65
44:PC:295:ALA:HB1	44:PC:377:MET:CE	2.26	0.65
45:PH:42:LEU:HD23	45:PH:356:ILE:HD11	1.78	0.65
45:PJ:345:ILE:O	45:PJ:345:ILE:HG23	1.95	0.65
44:PK:269:LEU:HD23	44:PK:379:SER:O	1.96	0.65
45:PL:130:LEU:HD23	45:PL:162:ARG:HG3	1.77	0.65
45:QB:7:ILE:HB	45:QB:135:ILE:HD12	1.78	0.65
45:QB:258:ILE:HB	44:QC:407:TRP:CH2	2.31	0.65
45:QD:34:GLY:O	45:QD:58:ARG:HA	1.96	0.65
44:QE:175:PRO:HB3	44:QE:390:ARG:NE	2.10	0.65
44:QG:296:PHE:CE2	44:QG:335:ILE:HG21	2.31	0.65
45:QH:49:VAL:HG11	45:QH:241:ARG:CG	2.27	0.65
45:QH:164:MET:O	45:QH:197:ASP:HB2	1.96	0.65
45:QL:322:SER:OG	44:QM:223:THR:HA	1.96	0.65
44:QM:72:PRO:O	44:QM:76:ASP:N	2.17	0.65
45:QN:285:THR:O	45:QN:289:LEU:HG	1.97	0.65
44:RA:262:TYR:HB3	44:RA:263:PRO:HD2	1.77	0.65
44:RA:281:ALA:O	44:RA:284:GLU:HG2	1.96	0.65
45:RD:209:ASP:OD1	45:RD:210:ILE:N	2.30	0.65
44:RE:265:ILE:CD1	44:RE:435:VAL:HG21	2.27	0.65
44:RE:268:MET:HG3	44:RE:380:ASN:HB2	1.78	0.65
44:RE:289:ALA:O	44:RE:292:THR:OG1	2.15	0.65
45:RF:318:ARG:CB	45:RF:357:PRO:HA	2.26	0.65
44:RG:235:ILE:O	44:RG:239:THR:HG22	1.96	0.65
44:RI:268:MET:HB2	44:RI:379:SER:O	1.96	0.65
45:RJ:142:GLY:O	45:RJ:146:GLY:N	2.20	0.65
45:RN:105:HIS:CE1	45:RN:150:LEU:HD12	2.31	0.65
45:SB:7:ILE:HG13	45:SB:64:ILE:HB	1.76	0.65
44:SC:3:GLU:HG2	44:SC:64:ARG:NH2	2.11	0.65
44:SC:90:GLU:O	44:SC:121:ARG:NH2	2.30	0.65
45:SD:257:LEU:HD11	45:SD:314:SER:HB2	1.79	0.65
44:SE:291:ILE:HG13	44:SE:292:THR:N	2.12	0.65
44:SE:311:LYS:O	44:SE:382:THR:HG23	1.95	0.65
45:SH:319:GLY:HA2	45:SH:355:ASP:O	1.96	0.65
45:SJ:211:CYS:SG	45:SJ:215:LEU:HD12	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:2:ARG:N	45:SL:129:CYS:HB3	2.10	0.65
44:TA:9:VAL:HG21	44:TA:149:LEU:CB	2.27	0.65
45:TB:252:LYS:HE2	44:TC:101:ASN:ND2	2.10	0.65
45:TB:283:ALA:O	45:TB:288:GLU:HG3	1.96	0.65
45:TD:1:MET:O	45:TD:2:ARG:HG2	1.96	0.65
44:TG:274:PRO:HD2	44:TG:374:ALA:HB2	1.78	0.65
45:TH:379:LYS:CD	45:TH:419:VAL:HG11	2.21	0.65
45:TJ:242:PHE:CD1	45:TJ:356:ILE:HG13	2.32	0.65
45:TJ:285:THR:OG1	45:TJ:287:PRO:HD2	1.96	0.65
44:UA:175:PRO:HB3	44:UA:390:ARG:NE	2.11	0.65
44:UA:349:THR:CG2	45:UB:179:VAL:HA	2.27	0.65
44:UC:55:GLU:HG3	44:UC:57:GLY:H	1.62	0.65
45:UD:267:MET:SD	45:UD:299:MET:HE3	2.37	0.65
44:UG:121:ARG:NH1	44:UG:124:LYS:HD2	2.12	0.65
44:UI:257:THR:HG22	45:UJ:397:TRP:CZ3	2.30	0.65
44:UK:289:ALA:O	44:UK:292:THR:HG22	1.97	0.65
45:VF:334:GLN:HG3	45:VF:341:PHE:CE2	2.31	0.65
45:VF:383:GLU:O	45:VF:386:THR:HG22	1.95	0.65
44:VI:301:MET:HG3	44:VI:307:PRO:CD	2.27	0.65
44:VK:88:HIS:HE1	44:VK:90:GLU:HG2	1.61	0.65
45:VL:11:GLN:HB3	48:VL:501:GDP:O3B	1.96	0.65
45:VL:184:ASN:OD1	45:VL:185:ALA:N	2.30	0.65
45:VL:380:ARG:O	45:VL:384:GLN:N	2.22	0.65
44:VM:6:SER:O	44:VM:66:VAL:HG12	1.97	0.65
45:WD:392:LYS:HG3	45:WD:395:LEU:HD23	1.79	0.65
45:WH:142:GLY:O	45:WH:146:GLY:N	2.29	0.65
45:WJ:45:GLU:O	45:WJ:46:ARG:HD3	1.96	0.65
45:WJ:330:MET:SD	45:WJ:349:ILE:HD13	2.37	0.65
44:WK:1:MET:HE1	45:WN:94:GLN:CA	2.25	0.65
44:WK:88:HIS:HB3	44:WK:91:GLN:HG3	1.79	0.65
1:6H:266:LYS:CD	44:FE:364:PRO:HG2	2.27	0.65
2:1A:36:ARG:HH21	45:MF:356:ILE:HD13	1.62	0.65
27:1W:136:LYS:HG3	44:KC:58:ALA:CB	2.20	0.65
35:4R:354:ALA:HB3	44:CE:39:ASP:CG	2.16	0.65
37:5D:27:LYS:HE2	45:KN:392:LYS:CG	2.21	0.65
35:5R:308:LYS:HD2	35:5R:328:TYR:CZ	2.31	0.65
40:6F:128:THR:HG21	45:IH:31:ASP:OD1	1.97	0.65
43:8R:81:UNK:HA	43:8R:84:UNK:CB	2.26	0.65
44:AA:297:GLU:HG2	44:AA:298:PRO:HD2	1.78	0.65
45:AB:8:GLN:OE1	45:AB:17:GLY:HA3	1.96	0.65
45:AB:19:LYS:O	45:AB:23:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:163:ILE:HG21	45:AB:251:ARG:HG2	1.78	0.65
44:AC:11:GLN:NE2	45:AD:245:GLN:O	2.26	0.65
45:AD:268:ILE:CG2	45:AD:368:VAL:HG22	2.26	0.65
44:AE:221:ARG:HD2	45:AF:322:SER:OG	1.97	0.65
45:AF:189:VAL:HG11	45:AF:415:MET:HE2	1.78	0.65
45:AH:304:ASP:OD1	45:AH:305:PRO:HD2	1.96	0.65
44:AI:155:GLU:HG3	44:AI:197:HIS:HE1	1.62	0.65
45:AJ:1:MET:O	45:AJ:2:ARG:HG2	1.97	0.65
44:AK:319:TYR:HB2	44:AK:355:ILE:HD13	1.77	0.65
45:AL:7:ILE:HB	45:AL:135:ILE:CD1	2.26	0.65
45:AL:16:ILE:HD11	45:AL:229:VAL:CG1	2.23	0.65
45:AL:341:PHE:HB3	45:AL:348:ASN:HD21	1.62	0.65
44:BE:36:MET:CG	44:BE:37:PRO:HD2	2.27	0.65
45:BH:1:MET:O	45:BH:2:ARG:HG2	1.96	0.65
45:BH:248:SER:HA	45:BH:252:LYS:HD2	1.79	0.65
44:BK:141:VAL:HG11	44:BK:172:TYR:HD1	1.62	0.65
45:BL:222:TYR:O	45:BL:226:ASN:ND2	2.24	0.65
45:BN:350:LYS:HD3	45:BN:351:SER:N	2.10	0.65
45:CB:40:SER:OG	45:CB:43:GLN:HG3	1.97	0.65
45:CB:299:MET:HG3	45:CB:305:PRO:HG3	1.79	0.65
44:CC:107:HIS:ND1	44:CC:107:HIS:O	2.29	0.65
45:CD:253:LEU:HD23	45:CD:253:LEU:O	1.97	0.65
44:CG:431:ASP:O	44:CG:435:VAL:HG13	1.97	0.65
44:CM:105:ARG:HA	44:CM:109:THR:HB	1.78	0.65
44:CM:384:ILE:HD12	44:CM:387:VAL:HG21	1.79	0.65
44:DA:275:ILE:HG23	44:DA:368:LEU:CD2	2.27	0.65
44:DA:357:TYR:HB2	44:DA:358:GLN:HE22	1.61	0.65
44:DE:260:VAL:HG13	44:DE:260:VAL:O	1.96	0.65
44:DI:36:MET:CG	44:DI:37:PRO:HD2	2.26	0.65
44:DK:350:GLY:HA2	45:DL:179:VAL:CG1	2.26	0.65
45:DL:3:GLU:HG2	45:DL:48:ASN:O	1.96	0.65
45:DL:374:ILE:O	45:DL:374:ILE:HG13	1.95	0.65
44:DM:205:ASP:CG	44:DM:304:LYS:H	2.00	0.65
45:DN:51:TYR:CE1	45:DN:61:PRO:HG3	2.31	0.65
45:DN:237:THR:HG1	45:DN:240:LEU:HB3	1.60	0.65
44:EA:431:ASP:O	44:EA:435:VAL:HG23	1.97	0.65
44:EC:265:ILE:HG12	44:EC:432:TYR:CE1	2.31	0.65
44:EC:380:ASN:OD1	44:EC:384:ILE:HD13	1.97	0.65
45:ED:267:MET:HE3	45:ED:305:PRO:HB3	1.78	0.65
44:EE:87:PHE:HB3	44:EE:92:LEU:HD11	1.77	0.65
45:EF:66:MET:HE1	45:EF:151:LEU:HD13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:177:ASP:N	45:EF:181:GLU:OE2	2.30	0.65
45:EH:144:GLY:O	45:EH:148:GLY:N	2.30	0.65
45:EH:217:LEU:HD11	45:EH:220:PRO:CG	2.25	0.65
44:FA:11:GLN:NE2	45:FB:246:LEU:HA	2.07	0.65
45:FB:421:GLU:HA	45:FB:424:GLN:CB	2.26	0.65
44:FE:70:LEU:HD21	44:FE:114:ILE:HG13	1.79	0.65
45:FF:19:LYS:HG3	45:FF:226:ASN:CB	2.26	0.65
45:FH:21:TRP:CZ3	45:FH:61:PRO:HB3	2.32	0.65
45:FJ:184:ASN:OD1	45:FJ:185:ALA:N	2.29	0.65
44:FK:183:GLU:CD	44:FK:184:PRO:HD3	2.17	0.65
45:FL:200:MET:SD	45:FL:268:ILE:HD13	2.37	0.65
44:FM:118:CYS:O	44:FM:122:ILE:HG12	1.97	0.65
45:FN:116:VAL:HG11	45:FN:151:LEU:HD12	1.78	0.65
44:GA:104:ALA:HB2	44:GA:413:MET:CE	2.27	0.65
45:GB:133:PHE:CD2	45:GB:155:VAL:HG11	2.32	0.65
44:GC:145:THR:OG1	46:GD:501:GTP:O2B	2.15	0.65
45:GD:209:ASP:OD1	45:GD:213:ARG:HD3	1.97	0.65
44:GE:68:LEU:HD21	44:GE:118:CYS:CB	2.26	0.65
44:GI:194:LEU:O	44:GI:194:LEU:HD23	1.96	0.65
45:GJ:135:ILE:HD13	45:GJ:164:MET:HE3	1.77	0.65
45:GL:201:VAL:HG23	45:GL:301:CYS:SG	2.36	0.65
45:HB:360:GLY:O	45:HB:361:LEU:HD23	1.96	0.65
44:HC:71:GLU:OE2	44:HC:73:THR:OG1	2.15	0.65
45:HF:101:TRP:HZ2	45:HF:149:THR:HG21	1.62	0.65
44:HG:301:MET:HE3	44:HG:305:CYS:O	1.96	0.65
44:HK:222:PRO:O	45:HL:322:SER:HB2	1.96	0.65
44:HM:171:ILE:HG23	44:HM:204:LEU:O	1.96	0.65
44:HM:275:ILE:HA	44:HM:368:LEU:CD1	2.26	0.65
45:HN:197:ASP:O	45:HN:264:HIS:HB2	1.97	0.65
44:IA:167:LEU:HD23	44:IA:200:VAL:HG11	1.77	0.65
44:IA:216:ASN:ND2	44:IA:275:ILE:O	2.29	0.65
45:IB:230:SER:HA	45:IB:233:MET:HG2	1.78	0.65
45:IB:257:LEU:CD1	45:IB:258:ILE:HB	2.27	0.65
45:IF:107:THR:HG23	45:IF:108:GLU:N	2.12	0.65
44:IK:254:GLU:CG	45:IN:98:GLY:HA2	2.27	0.65
45:IL:67:ASP:OD1	45:IL:68:LEU:N	2.29	0.65
45:JD:66:MET:CG	45:JD:91:VAL:HG23	2.27	0.65
44:JG:265:ILE:HG12	44:JG:432:TYR:CZ	2.31	0.65
45:JH:292:GLN:HG3	45:JH:298:ASN:ND2	2.10	0.65
45:JJ:243:PRO:HB2	45:JJ:355:ASP:OD2	1.96	0.65
44:JK:15:GLN:HB3	44:JK:228:ASN:HD21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:30:ILE:HG13	44:JK:36:MET:HE2	1.79	0.65
44:JK:60:LYS:NZ	44:KK:282:TYR:HB2	2.11	0.65
45:JN:105:HIS:CE1	45:JN:150:LEU:HD13	2.32	0.65
45:JN:269:GLY:HA2	45:JN:300:MET:SD	2.36	0.65
45:JN:304:ASP:OD1	45:JN:306:ARG:HG2	1.96	0.65
44:KA:210:TYR:HB3	45:KB:324:LYS:HE2	1.79	0.65
45:KH:198:GLU:OE2	45:KH:254:ALA:HB2	1.95	0.65
45:KH:284:LEU:HD13	45:KH:362:LYS:HG2	1.77	0.65
44:KI:14:ILE:HD11	44:KI:69:ASP:CB	2.25	0.65
44:KK:254:GLU:OE2	45:KN:98:GLY:HA2	1.96	0.65
44:KM:188:ILE:CG2	44:KM:421:ALA:HB1	2.26	0.65
44:KM:241:SER:OG	44:KM:250:VAL:O	2.14	0.65
44:LC:123:ARG:HA	44:LC:123:ARG:HE	1.61	0.65
45:LD:163:ILE:HD11	45:LD:251:ARG:NH1	2.11	0.65
45:LF:63:ALA:HB1	45:LF:65:LEU:CD1	2.27	0.65
44:LG:91:GLN:HG3	44:LG:92:LEU:HD12	1.79	0.65
45:LH:343:GLU:OE1	45:LH:430:ALA:HB2	1.97	0.65
45:LH:392:LYS:CD	45:LH:395:LEU:HD23	2.26	0.65
45:LJ:7:ILE:HD12	45:LJ:151:LEU:CD2	2.27	0.65
45:LJ:285:THR:HB	45:LJ:287:PRO:HD2	1.78	0.65
44:LK:60:LYS:HZ2	44:MK:283:HIS:CE1	2.13	0.65
45:LL:130:LEU:HD21	45:LL:133:PHE:CE1	2.31	0.65
45:LL:173:PRO:HG3	45:LL:380:ARG:NE	2.09	0.65
44:LM:205:ASP:OD1	44:LM:303:ALA:HA	1.97	0.65
45:MD:275:SER:O	45:MD:279:GLN:HG3	1.96	0.65
44:ME:434:GLU:O	44:ME:437:ILE:HG12	1.96	0.65
45:MH:28:HIS:HB2	45:MH:30:ILE:CD1	2.27	0.65
45:MH:114:ASP:OD1	45:MH:115:SER:N	2.29	0.65
44:MI:204:LEU:HD23	44:MI:204:LEU:O	1.96	0.65
45:MJ:97:ALA:HB2	45:MJ:143:THR:HB	1.77	0.65
45:ML:233:MET:O	45:ML:236:VAL:HG12	1.97	0.65
44:MM:137:VAL:O	44:MM:168:GLY:HA2	1.96	0.65
44:MM:285:GLN:HG3	44:MM:287:SER:H	1.61	0.65
45:MN:8:GLN:NE2	45:MN:14:ASN:HA	2.12	0.65
44:NC:332:ILE:HG23	44:NC:351:PHE:HD2	1.62	0.65
45:NF:5:VAL:HG23	45:NF:62:ARG:HG2	1.78	0.65
44:NG:60:LYS:NZ	44:NG:85:GLN:O	2.29	0.65
44:NG:161:TYR:HB3	44:NG:164:LYS:HE2	1.78	0.65
44:NI:232:ALA:O	44:NI:235:ILE:HG22	1.97	0.65
44:NI:257:THR:HG21	45:NL:98:GLY:O	1.97	0.65
45:NJ:172:SER:OG	45:NJ:205:GLU:HG2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:295:ALA:HB1	44:NM:377:MET:CE	2.27	0.65
45:OF:178:THR:HG22	45:OF:180:VAL:H	1.60	0.65
44:OI:98:ASP:O	44:OI:105:ARG:NH1	2.30	0.65
45:OJ:167:PHE:HE2	45:OJ:233:MET:HB3	1.61	0.65
45:OJ:318:ARG:NH1	45:OJ:358:PRO:HG3	2.11	0.65
44:OK:328:VAL:O	44:OK:332:ILE:N	2.29	0.65
45:OL:311:LEU:HD21	45:OL:370:ASN:CG	2.17	0.65
45:ON:304:ASP:HB3	45:ON:307:HIS:CG	2.30	0.65
44:PA:60:LYS:NZ	44:PA:86:LEU:HA	2.10	0.65
45:PB:64:ILE:HG22	45:PB:66:MET:SD	2.36	0.65
45:PB:283:ALA:O	45:PB:288:GLU:HG3	1.95	0.65
44:PC:311:LYS:CD	44:PC:342:GLN:HG3	2.26	0.65
45:PD:253:LEU:CB	45:PD:257:LEU:HD13	2.26	0.65
45:PH:178:THR:O	45:PH:181:GLU:HG3	1.95	0.65
44:PK:11:GLN:HE22	45:PL:246:LEU:HA	1.61	0.65
44:PK:88:HIS:ND1	44:PK:89:PRO:HD2	2.11	0.65
44:PK:209:ILE:HG21	44:PK:227:LEU:HD22	1.79	0.65
44:PK:276:ILE:HD12	44:PK:281:ALA:CB	2.26	0.65
44:PM:54:SER:OG	44:PM:62:VAL:HB	1.96	0.65
44:QA:12:GLY:HA2	46:QA:501:GTP:N7	2.12	0.65
44:QA:295:ALA:HB1	44:QA:377:MET:HE3	1.77	0.65
45:QB:287:PRO:HA	45:QB:290:THR:CG2	2.26	0.65
44:QC:285:GLN:NE2	44:QC:287:SER:HB2	2.11	0.65
45:QD:334:GLN:NE2	45:QD:335:ASN:OD1	2.29	0.65
44:QE:320:ARG:HH12	44:QE:360:PRO:HA	1.60	0.65
45:QF:40:SER:N	45:QF:43:GLN:OE1	2.28	0.65
45:QH:234:SER:HA	45:QH:237:THR:HG22	1.78	0.65
45:QL:209:ASP:OD1	45:QL:213:ARG:HD3	1.95	0.65
44:QM:113:GLU:O	44:QM:116:ASP:HB2	1.96	0.65
45:RB:314:SER:HB3	45:RB:368:VAL:O	1.96	0.65
44:RC:47:ASP:HA	44:RC:49:PHE:CE1	2.31	0.65
44:RC:276:ILE:HD13	44:RC:281:ALA:HA	1.78	0.65
44:RE:390:ARG:HG3	44:RE:391:LEU:HD12	1.77	0.65
44:RG:70:LEU:HD12	44:RG:145:THR:HB	1.77	0.65
44:RG:209:ILE:CG2	44:RG:227:LEU:HD22	2.27	0.65
45:RH:7:ILE:HD11	45:RH:120:VAL:HG23	1.79	0.65
45:RH:292:GLN:NE2	45:RH:298:ASN:OD1	2.27	0.65
44:RI:257:THR:HG22	45:RJ:397:TRP:CZ2	2.32	0.65
45:RJ:110:ALA:O	45:RJ:113:ILE:HG22	1.97	0.65
44:RK:203:MET:HG3	44:RK:384:ILE:HD11	1.79	0.65
45:SB:205:GLU:HA	45:SB:208:TYR:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:73:MET:CA	45:SD:76:VAL:HG22	2.25	0.65
44:SI:325:PRO:HA	44:SI:328:VAL:HG23	1.78	0.65
45:SJ:185:ALA:O	45:SJ:188:SER:OG	2.07	0.65
45:SJ:211:CYS:O	45:SJ:216:LYS:N	2.29	0.65
44:SM:87:PHE:HB3	44:SM:92:LEU:CD1	2.26	0.65
44:SM:288:VAL:CA	44:SM:291:ILE:HG12	2.27	0.65
44:SM:319:TYR:N	44:SM:354:GLY:O	2.26	0.65
44:SM:439:THR:HB	45:SN:391:ARG:HD3	1.76	0.65
45:TB:204:ASN:O	45:TB:208:TYR:N	2.26	0.65
44:TC:318:MET:HA	44:TC:354:GLY:CA	2.23	0.65
45:TD:166:THR:OG1	45:TD:199:CYS:HA	1.96	0.65
44:TE:118:CYS:O	44:TE:122:ILE:HG12	1.95	0.65
44:TE:124:LYS:HA	44:TE:127:ASP:OD2	1.96	0.65
44:TE:156:ARG:HA	44:TE:159:VAL:HG12	1.78	0.65
45:TJ:112:LEU:O	45:TJ:112:LEU:HD23	1.96	0.65
45:TJ:198:GLU:HA	45:TJ:264:HIS:ND1	2.12	0.65
45:TL:287:PRO:HA	45:TL:290:THR:CG2	2.27	0.65
44:TM:401:LYS:HD2	44:TM:401:LYS:O	1.96	0.65
44:UA:306:ASP:OD1	44:UA:307:PRO:HD2	1.97	0.65
44:UA:417:GLU:O	44:UA:420:GLU:HG2	1.96	0.65
45:UD:60:VAL:HG23	45:UD:84:LEU:O	1.96	0.65
44:UE:60:LYS:HZ3	44:VC:283:HIS:HE1	1.45	0.65
44:UE:175:PRO:HB3	44:UE:390:ARG:NH2	2.11	0.65
45:UF:330:MET:HG2	45:UF:349:ILE:HG21	1.77	0.65
45:UF:397:TRP:O	45:UF:400:GLY:N	2.22	0.65
44:UG:202:VAL:HA	44:UG:268:MET:O	1.97	0.65
45:UJ:133:PHE:HE2	45:UJ:155:VAL:HG11	1.61	0.65
45:UL:220:PRO:HA	45:UL:224:ASP:OD2	1.97	0.65
45:UL:376:GLU:HA	45:UL:379:LYS:NZ	2.12	0.65
44:UM:289:ALA:O	44:UM:292:THR:HG22	1.95	0.65
45:UN:143:THR:HG22	48:UN:501:GDP:O1B	1.95	0.65
45:UN:210:ILE:HD11	45:UN:299:MET:O	1.95	0.65
44:VC:121:ARG:HD3	44:VC:124:LYS:NZ	2.11	0.65
45:VD:377:MET:O	45:VD:380:ARG:HG2	1.96	0.65
44:VG:209:ILE:O	44:VG:213:CYS:N	2.24	0.65
45:VH:206:ALA:HA	45:VH:209:ASP:HB3	1.79	0.65
44:VI:265:ILE:HG12	44:VI:432:TYR:CE1	2.31	0.65
45:VJ:345:ILE:O	45:VJ:345:ILE:HG23	1.96	0.65
44:VK:262:TYR:OH	45:VN:391:ARG:O	2.08	0.65
45:VL:87:PRO:HD2	45:WL:281:TYR:HD2	1.61	0.65
45:VL:269:GLY:HA3	45:VL:367:PHE:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:301:CYS:HB3	45:VL:377:MET:CE	2.26	0.65
45:VL:404:ASP:HB2	45:VL:406:MET:CE	2.26	0.65
45:VN:253:LEU:O	45:VN:257:LEU:HD13	1.96	0.65
44:WA:2:ARG:NH2	45:WD:69:GLU:HB2	2.12	0.65
44:WA:145:THR:H	46:WA:501:GTP:PG	2.19	0.65
45:WB:253:LEU:O	45:WB:257:LEU:HD13	1.97	0.65
44:WC:320:ARG:CZ	44:WC:360:PRO:HG3	2.25	0.65
45:WD:60:VAL:HG21	45:WD:86:ARG:HG2	1.78	0.65
44:WE:352:LYS:HD2	45:WH:177:ASP:O	1.96	0.65
45:WH:286:VAL:HG11	45:WH:325:GLU:HB3	1.79	0.65
45:WJ:113:ILE:O	45:WJ:116:VAL:HG12	1.95	0.65
44:WM:296:PHE:CE1	44:WM:377:MET:HE3	2.30	0.65
3:0B:79:PHE:HB3	45:JH:40:SER:CB	2.25	0.65
9:0H:415:PRO:HB3	44:GK:58:ALA:HB1	1.77	0.65
5:1D:52:ASN:HB2	45:EF:362:LYS:NZ	2.11	0.65
18:1F:167:HIS:CE1	44:GK:93:ILE:HG23	2.31	0.65
20:1J:297:THR:OG1	44:IK:219:ILE:HD13	1.95	0.65
21:1K:15:ASN:ND2	44:NC:357:TYR:O	2.29	0.65
17:2B:63:GLN:HE22	44:LK:84:ARG:HE	1.43	0.65
31:3H:222:LYS:HG2	44:MG:80:THR:HG21	1.79	0.65
14:3U:227:PHE:CZ	44:WK:44:GLY:HA3	2.31	0.65
35:4R:185:SER:OG	44:AE:39:ASP:HB3	1.96	0.65
37:5A:175:LYS:NZ	45:KD:343:GLU:HG2	2.12	0.65
37:5B:104:PRO:HB3	44:KE:390:ARG:HH22	1.60	0.65
37:5D:19:ARG:CA	45:KN:418:LEU:HB2	2.26	0.65
37:5D:27:LYS:CG	45:KN:392:LYS:HB3	2.25	0.65
37:5D:58:TYR:CE2	45:KN:180:VAL:HA	2.31	0.65
38:5E:56:VAL:HG12	45:OB:276:ARG:HH22	1.60	0.65
38:5F:126:LEU:CD1	44:NE:57:GLY:HA3	2.27	0.65
39:5I:97:LYS:O	39:5I:100:THR:HG22	1.97	0.65
35:5R:550:VAL:HA	35:5R:553:ILE:HG22	1.78	0.65
41:6G:305:THR:HB	45:UB:114:ASP:HB2	1.79	0.65
35:7R:105:GLU:HG3	45:BD:279:GLN:HE21	1.62	0.65
42:8L:348:UNK:CB	45:SD:276:ARG:HD2	2.25	0.65
44:AA:132:LEU:HD21	44:AA:135:PHE:CE1	2.32	0.65
45:AB:73:MET:HA	45:AB:76:VAL:HG12	1.78	0.65
45:AB:257:LEU:HA	45:AB:312:THR:HG21	1.77	0.65
44:AC:4:VAL:HG12	44:AC:134:GLY:HA2	1.78	0.65
45:AD:286:VAL:HG12	45:AD:329:GLN:HG3	1.79	0.65
45:AH:249:ASP:OD1	45:AH:252:LYS:N	2.27	0.65
44:AI:238:LEU:HD11	44:AI:255:PHE:CZ	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:269:LEU:CD1	44:AM:303:ALA:HB3	2.27	0.65
45:AN:6:HIS:HE2	45:AN:8:GLN:NE2	1.95	0.65
45:AN:276:ARG:NH1	45:AN:279:GLN:OE1	2.29	0.65
44:BA:256:GLN:HB2	44:BA:260:VAL:CG2	2.26	0.65
45:BH:186:THR:HG21	45:BH:385:PHE:CD1	2.31	0.65
44:CA:55:GLU:HG3	44:CA:57:GLY:H	1.61	0.65
45:CB:132:GLY:HA3	45:CB:163:ILE:HG13	1.79	0.65
45:CB:314:SER:HA	45:CB:350:LYS:HB3	1.78	0.65
44:CC:87:PHE:HB3	44:CC:91:GLN:NE2	2.12	0.65
45:CD:173:PRO:CG	45:CD:380:ARG:HD3	2.27	0.65
44:CE:72:PRO:HG3	44:CE:95:GLY:O	1.97	0.65
44:CE:288:VAL:HG11	44:CE:327:ASP:CB	2.26	0.65
44:CG:76:ASP:OD1	44:CG:79:ARG:NH2	2.30	0.65
44:CG:98:ASP:OD1	44:CG:99:ALA:N	2.30	0.65
45:CH:101:TRP:CE3	45:CH:187:LEU:HD13	2.32	0.65
44:CI:93:ILE:HD12	44:CI:117:LEU:HD23	1.78	0.65
45:CJ:269:GLY:HA2	45:CJ:300:MET:HE1	1.77	0.65
44:CK:51:THR:HG22	44:CK:52:PHE:CD1	2.32	0.65
44:CK:223:THR:HG22	44:CK:224:TYR:H	1.61	0.65
45:CL:206:ALA:HB2	45:CL:302:ALA:N	2.12	0.65
45:CN:11:GLN:HA	45:CN:72:THR:OG1	1.97	0.65
44:DA:158:SER:O	44:DA:162:GLY:N	2.30	0.65
45:DB:284:LEU:HD12	45:DB:362:LYS:HE2	1.76	0.65
44:DG:346:TRP:CZ3	44:DG:347:CYS:HB2	2.31	0.65
44:DG:385:ALA:HB2	44:DG:432:TYR:CD2	2.32	0.65
45:DH:104:GLY:O	45:DH:109:GLY:HA3	1.95	0.65
45:DL:12:CYS:O	45:DL:16:ILE:HG12	1.96	0.65
45:DN:67:ASP:O	45:DN:92:PHE:HA	1.96	0.65
45:DN:258:ILE:HD11	45:DN:266:PHE:HZ	1.62	0.65
45:EB:42:LEU:HD13	45:EB:45:GLU:CD	2.16	0.65
45:ED:210:ILE:CD1	45:ED:300:MET:HG2	2.27	0.65
45:ED:334:GLN:HA	45:ED:341:PHE:CE2	2.31	0.65
44:EG:1:MET:HG2	44:EG:2:ARG:NH1	2.11	0.65
44:EG:278:ALA:N	44:EG:369:ALA:HB2	2.12	0.65
45:EH:246:LEU:HD11	44:EI:224:TYR:HE2	1.61	0.65
44:EI:200:VAL:HG13	44:EI:268:MET:SD	2.37	0.65
45:EJ:99:ASN:HD22	45:EJ:178:THR:HG21	1.61	0.65
44:EM:90:GLU:HG3	44:EM:121:ARG:HH22	1.61	0.65
45:FD:13:GLY:HA2	45:FD:16:ILE:HD13	1.77	0.65
45:FD:200:MET:HE3	45:FD:266:PHE:HB2	1.77	0.65
45:FD:308:GLY:HA3	45:FD:372:THR:CG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:200:VAL:CG2	44:FE:256:GLN:HB3	2.27	0.65
45:FF:32:PRO:HG3	45:FF:81:PHE:CZ	2.32	0.65
44:FI:105:ARG:HD2	45:FJ:251:ARG:NH2	2.12	0.65
45:FJ:334:GLN:HG3	45:FJ:341:PHE:HD2	1.62	0.65
44:FM:287:SER:O	44:FM:291:ILE:HG23	1.96	0.65
45:FN:103:LYS:HD2	45:FN:108:GLU:HG2	1.78	0.65
45:FN:268:ILE:CG2	45:FN:368:VAL:HG22	2.26	0.65
44:GA:17:GLY:O	44:GA:20:CYS:N	2.30	0.65
44:GC:405:VAL:O	44:GC:409:VAL:HG23	1.96	0.65
45:GD:198:GLU:OE2	45:GD:254:ALA:HB2	1.96	0.65
45:GD:309:ARG:H	45:GD:372:THR:HG1	1.44	0.65
44:GG:9:VAL:HG11	44:GG:150:GLY:CA	2.26	0.65
45:GH:69:GLU:OE1	45:GH:71:GLY:N	2.30	0.65
44:GI:270:SER:O	44:GI:302:MET:HB3	1.97	0.65
44:GM:90:GLU:OE1	44:HM:280:LYS:HG2	1.97	0.65
45:GN:156:ARG:NH1	45:GN:162:ARG:O	2.30	0.65
44:HA:89:PRO:HG2	44:IA:280:LYS:CG	2.26	0.65
45:HD:40:SER:N	45:HD:43:GLN:OE1	2.28	0.65
45:HF:270:PHE:HD2	45:HF:273:LEU:HD21	1.61	0.65
45:HH:42:LEU:HA	45:HH:45:GLU:CG	2.21	0.65
45:HJ:103:LYS:HG3	45:HJ:108:GLU:HG3	1.78	0.65
45:HL:310:TYR:CD1	45:HL:371:SER:HB2	2.31	0.65
44:IA:352:LYS:HD3	45:ID:178:THR:HG23	1.78	0.65
44:II:276:ILE:CD1	44:II:281:ALA:HB1	2.27	0.65
44:IK:210:TYR:HE1	44:IK:227:LEU:HD11	1.62	0.65
45:JB:133:PHE:HB2	45:JB:164:MET:HB2	1.77	0.65
45:JD:403:MET:HE3	45:JD:403:MET:HA	1.77	0.65
45:JF:209:ASP:CG	45:JF:210:ILE:H	2.00	0.65
44:JG:19:ALA:HA	44:JG:22:GLU:HG2	1.76	0.65
44:JG:217:LEU:CD1	44:JG:367:ASP:HB3	2.27	0.65
45:JH:221:THR:HG22	45:JH:222:TYR:H	1.62	0.65
44:JI:345:ASP:OD2	44:JI:439:THR:N	2.24	0.65
45:JJ:213:ARG:NH2	45:JJ:297:LYS:O	2.29	0.65
45:JL:309:ARG:NH2	45:JL:426:GLN:O	2.29	0.65
44:JM:175:PRO:HG3	44:JM:304:LYS:HG2	1.78	0.65
44:JM:176:GLN:NE2	44:JM:207:GLU:HG2	2.09	0.65
44:KA:68:LEU:CD2	44:KA:153:LEU:HD11	2.26	0.65
44:KA:317:MET:HE3	44:KA:377:MET:SD	2.37	0.65
44:KA:320:ARG:HA	44:KA:356:ASN:HB3	1.77	0.65
45:KB:269:GLY:HA3	45:KB:367:PHE:HB3	1.77	0.65
44:KC:253:THR:O	44:KC:256:GLN:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:130:LEU:HD21	45:KD:133:PHE:CE1	2.31	0.65
44:KG:272:TYR:CD2	44:KG:275:ILE:HD11	2.32	0.65
44:KG:301:MET:HG3	44:KG:307:PRO:HG3	1.78	0.65
44:KI:3:GLU:HG3	44:KI:50:ASN:O	1.96	0.65
44:KM:26:LEU:CD1	44:KM:363:VAL:HG23	2.26	0.65
44:KM:295:ALA:HB3	44:KM:377:MET:HE1	1.78	0.65
44:LA:143:GLY:HA3	46:LB:501:GTP:O2B	1.97	0.65
45:LB:65:LEU:HD22	45:LB:90:PHE:CE1	2.31	0.65
45:LB:250:LEU:O	45:LB:254:ALA:N	2.23	0.65
44:LC:258:ASN:HD22	44:LC:352:LYS:HD2	1.60	0.65
44:LG:153:LEU:O	44:LG:157:LEU:HD23	1.96	0.65
45:LH:193:VAL:HA	45:LH:264:HIS:CE1	2.31	0.65
44:LI:72:PRO:HG2	45:LJ:1:MET:HE1	1.79	0.65
44:LM:121:ARG:HH21	44:LM:124:LYS:HE2	1.58	0.65
45:LN:148:GLY:O	45:LN:152:ILE:HD12	1.95	0.65
45:MB:303:ALA:H	45:MB:377:MET:CE	2.10	0.65
44:MC:273:ALA:HB2	44:MC:300:ASN:HD21	1.61	0.65
44:ME:269:LEU:HD12	44:ME:303:ALA:HB3	1.79	0.65
44:MG:284:GLU:O	44:MG:286:LEU:HG	1.97	0.65
45:MH:43:GLN:O	45:MH:47:ILE:HD11	1.97	0.65
44:MI:3:GLU:OE1	44:MI:3:GLU:N	2.29	0.65
44:MI:313:MET:HE3	44:MI:313:MET:CA	2.26	0.65
44:MM:102:ASN:ND2	44:MM:407:TRP:O	2.29	0.65
44:NA:242:LEU:HD21	44:NA:252:ILE:HB	1.79	0.65
45:NB:100:ASN:HB3	45:NB:103:LYS:CB	2.27	0.65
45:ND:223:GLY:HA2	45:ND:226:ASN:HD22	1.61	0.65
45:ND:285:THR:OG1	45:ND:288:GLU:OE1	2.15	0.65
45:NF:4:ILE:HD11	45:NF:131:GLN:OE1	1.97	0.65
45:NF:173:PRO:HD3	45:NF:380:ARG:CZ	2.27	0.65
44:NI:118:CYS:O	44:NI:122:ILE:HG12	1.96	0.65
45:NJ:7:ILE:HD13	45:NJ:64:ILE:HB	1.78	0.65
45:OJ:20:PHE:O	45:OJ:24:ILE:HG12	1.97	0.65
44:OK:253:THR:O	44:OK:257:THR:OG1	2.14	0.65
45:ON:159:TYR:HB3	45:ON:162:ARG:CG	2.24	0.65
44:PA:242:LEU:HD11	44:PA:252:ILE:CD1	2.27	0.65
44:PC:101:ASN:HA	44:PC:144:GLY:CA	2.27	0.65
45:PD:50:TYR:CD2	45:PD:241:ARG:HD3	2.31	0.65
45:PD:187:LEU:HD11	45:PD:408:PHE:CZ	2.31	0.65
45:PF:14:ASN:O	45:PF:17:GLY:N	2.29	0.65
44:PG:88:HIS:HB3	44:PG:91:GLN:CG	2.26	0.65
44:PG:347:CYS:CA	45:PJ:388:MET:HE1	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:305:PRO:HB3	45:PH:310:TYR:OH	1.97	0.65
44:PI:231:ILE:O	44:PI:234:VAL:HG12	1.96	0.65
45:PJ:241:ARG:O	45:PJ:242:PHE:HD1	1.78	0.65
45:PJ:302:ALA:HB3	45:PJ:377:MET:CE	2.27	0.65
45:PL:313:ALA:CB	45:PL:349:ILE:HG12	2.26	0.65
44:PM:23:LEU:HD21	44:PM:233:GLN:OE1	1.96	0.65
45:QB:382:ALA:HB2	45:QB:415:MET:SD	2.37	0.65
44:QC:31:GLN:HG3	44:QC:35:GLN:O	1.96	0.65
44:QC:175:PRO:HG2	44:QC:304:LYS:HE2	1.79	0.65
45:QD:112:LEU:HD23	45:QD:112:LEU:O	1.95	0.65
45:QD:210:ILE:O	45:QD:214:THR:OG1	2.06	0.65
45:QD:410:GLU:O	45:QD:413:SER:OG	2.11	0.65
44:QE:172:TYR:HB3	44:QE:173:PRO:HD2	1.77	0.65
44:QG:288:VAL:HA	44:QG:291:ILE:HG12	1.79	0.65
45:QJ:8:GLN:HG3	45:QJ:14:ASN:HA	1.78	0.65
45:QL:185:ALA:O	45:QL:189:VAL:HG23	1.96	0.65
45:QL:237:THR:CG2	45:QL:250:LEU:HD21	2.26	0.65
44:QM:47:ASP:HB2	44:QM:49:PHE:CD1	2.32	0.65
44:QM:174:SER:HB2	44:QM:177:VAL:O	1.97	0.65
44:QM:326:LYS:HE2	45:QN:219:THR:HA	1.78	0.65
44:RA:21:TRP:CH2	44:RA:63:PRO:HB3	2.31	0.65
45:RD:198:GLU:HG2	45:RD:266:PHE:CE2	2.32	0.65
45:RD:324:LYS:HD3	44:RE:222:PRO:HG2	1.77	0.65
44:RG:87:PHE:CD2	44:RG:92:LEU:HD11	2.32	0.65
44:RI:226:ASN:O	44:RI:229:ARG:HB2	1.96	0.65
44:RI:320:ARG:CD	44:RI:360:PRO:HG3	2.27	0.65
45:RJ:36:TYR:CZ	45:RJ:38:GLY:HA3	2.32	0.65
45:RJ:175:VAL:CG2	45:RJ:205:GLU:HB2	2.25	0.65
45:RJ:201:VAL:HG11	45:RJ:377:MET:CE	2.27	0.65
45:RJ:270:PHE:HD2	45:RJ:273:LEU:HD21	1.62	0.65
45:RL:64:ILE:HG21	45:RL:116:VAL:HG23	1.77	0.65
45:RL:236:VAL:HG12	45:RL:250:LEU:HD21	1.77	0.65
45:RL:286:VAL:HG12	45:RL:329:GLN:HG3	1.77	0.65
45:RL:329:GLN:O	45:RL:333:VAL:HG23	1.96	0.65
44:RM:257:THR:HA	45:RN:397:TRP:CE2	2.32	0.65
44:RM:279:GLU:OE2	44:RM:280:LYS:HB2	1.95	0.65
45:RN:113:ILE:O	45:RN:117:LEU:HD23	1.96	0.65
44:SA:136:LEU:HD22	44:SA:167:LEU:HB2	1.77	0.65
44:SC:263:PRO:HD3	45:SD:396:HIS:CE1	2.31	0.65
45:SD:5:VAL:HG12	45:SD:62:ARG:CD	2.27	0.65
45:SH:200:MET:HG2	45:SH:266:PHE:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:240:LEU:O	45:SH:240:LEU:HD23	1.97	0.65
45:SL:86:ARG:NH1	45:SL:89:ASN:OD1	2.30	0.65
45:SN:267:MET:CE	45:SN:299:MET:HG2	2.22	0.65
45:SN:374:ILE:HA	45:SN:377:MET:CE	2.26	0.65
44:TG:184:PRO:HA	44:TG:187:SER:OG	1.96	0.65
44:TI:203:MET:SD	44:TI:384:ILE:HD11	2.37	0.65
45:TJ:87:PRO:HD2	45:UJ:281:TYR:HD1	1.60	0.65
44:TK:287:SER:O	44:TK:291:ILE:HG12	1.97	0.65
45:TL:406:MET:O	45:TL:410:GLU:HG3	1.97	0.65
44:UC:298:PRO:HA	44:UC:307:PRO:HG3	1.79	0.65
45:UD:112:LEU:O	45:UD:112:LEU:HD23	1.95	0.65
45:UD:134:GLN:O	45:UD:134:GLN:HG3	1.96	0.65
45:UD:282:ARG:HG2	45:UD:283:ALA:N	2.12	0.65
45:UD:314:SER:HB3	45:UD:368:VAL:CG2	2.27	0.65
45:UF:245:GLN:NE2	45:UF:355:ASP:OD1	2.29	0.65
45:UH:185:ALA:O	45:UH:189:VAL:HG23	1.95	0.65
45:UJ:133:PHE:HD2	45:UJ:164:MET:HE1	1.61	0.65
45:UJ:278:SER:OG	45:UJ:281:TYR:HB3	1.97	0.65
44:UK:320:ARG:CD	44:UK:360:PRO:HG3	2.27	0.65
45:UL:245:GLN:OE1	45:UL:353:ILE:HB	1.97	0.65
45:UN:19:LYS:HZ2	45:UN:227:HIS:HA	1.62	0.65
45:UN:189:VAL:HG11	45:UN:415:MET:HE1	1.79	0.65
44:VA:215:ARG:NH1	44:VA:299:ALA:HB1	2.11	0.65
45:VD:101:TRP:CH2	45:VD:188:SER:HA	2.32	0.65
44:VG:54:SER:HB3	44:VG:64:ARG:NE	2.11	0.65
45:VH:141:GLY:HA3	48:VH:501:GDP:O3A	1.96	0.65
45:VH:258:ILE:HG13	45:VH:258:ILE:O	1.97	0.65
44:WA:152:LEU:HB3	44:WA:153:LEU:HB3	1.79	0.65
45:WB:60:VAL:HG23	45:WB:84:LEU:O	1.96	0.65
45:WB:304:ASP:OD1	45:WB:306:ARG:HG2	1.97	0.65
45:WD:105:HIS:HB2	45:WD:146:GLY:O	1.96	0.65
44:WE:68:LEU:HD11	44:WE:118:CYS:SG	2.36	0.65
45:WF:20:PHE:HA	45:WF:230:SER:HB3	1.78	0.65
45:WH:375:GLN:O	45:WH:379:LYS:HG3	1.95	0.65
45:WJ:67:ASP:OD1	45:WJ:68:LEU:N	2.29	0.65
44:WM:317:MET:CG	44:WM:375:VAL:HG22	2.26	0.65
44:WM:398:MET:HE2	45:WN:345:ILE:HG13	1.79	0.65
44:WM:398:MET:CE	45:WN:345:ILE:HG13	2.27	0.65
45:WN:69:GLU:OE2	45:WN:71:GLY:N	2.30	0.65
45:WN:200:MET:SD	45:WN:268:ILE:HG23	2.36	0.65
45:WN:370:ASN:OD1	45:WN:422:TYR:OH	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0A:74:SER:HA	44:AA:219:ILE:HD11	1.78	0.65
20:1J:180:ALA:HA	44:IG:221:ARG:CG	2.25	0.65
21:1K:212:ARG:HD2	44:GA:372:MET:HB2	1.77	0.65
15:1V:48:VAL:CG1	44:LI:117:LEU:HD11	2.14	0.65
16:1X:53:ILE:HD11	44:ME:278:ALA:O	1.94	0.65
16:1X:124:TYR:HE2	45:MD:362:LYS:HZ2	1.43	0.65
29:2F:59:ARG:NH2	44:GC:46:ASP:OD2	2.29	0.65
29:2F:76:ASN:HD21	45:HF:336:LYS:HB3	1.61	0.65
22:2L:408:LEU:HG	45:CN:362:LYS:CE	2.27	0.65
13:2T:229:THR:HG21	44:MG:264:ARG:CB	2.26	0.65
35:4R:80:ARG:HB3	44:ME:35:GLN:HE22	1.53	0.65
38:5E:111:ASN:HB3	45:NB:44:LEU:HD13	1.78	0.65
38:5E:174:ALA:HB1	45:KD:156:ARG:HH12	1.62	0.65
38:5G:178:SER:O	38:5G:182:THR:N	2.27	0.65
39:5I:93:ASP:OD2	39:5I:96:SER:OG	2.14	0.65
44:AG:348:PRO:HD2	45:AJ:388:MET:HE3	1.78	0.65
44:AK:328:VAL:HG21	44:AK:355:ILE:HD11	1.77	0.65
44:AM:14:ILE:HD13	44:AM:75:ILE:CD1	2.26	0.65
44:BG:217:LEU:CD1	44:BG:367:ASP:HB3	2.25	0.65
44:CC:31:GLN:NE2	44:CC:33:ASP:HB2	2.09	0.65
44:CE:151:SER:HB2	44:CE:193:SER:OG	1.96	0.65
45:CF:2:ARG:NE	45:CF:240:LEU:HD11	2.11	0.65
45:CF:247:ASN:O	45:CF:252:LYS:NZ	2.25	0.65
45:CH:345:ILE:HG23	45:CH:345:ILE:O	1.96	0.65
45:CJ:247:ASN:H	44:CK:11:GLN:HE22	1.44	0.65
45:CJ:389:PHE:HE1	45:CJ:408:PHE:HB3	1.61	0.65
45:CL:51:TYR:HE1	45:CL:61:PRO:HG3	1.60	0.65
45:CL:177:ASP:N	45:CL:181:GLU:OE2	2.30	0.65
44:CM:175:PRO:HG2	44:CM:304:LYS:CG	2.26	0.65
44:DA:89:PRO:CG	44:EA:280:LYS:HG2	2.25	0.65
45:DB:312:THR:HA	45:DB:348:ASN:O	1.97	0.65
45:DF:141:GLY:O	45:DF:145:SER:OG	2.09	0.65
44:DG:67:PHE:HB2	44:DG:92:LEU:CD1	2.23	0.65
45:DL:97:ALA:HB1	45:DL:103:LYS:HE3	1.78	0.65
45:DL:249:ASP:OD1	45:DL:252:LYS:N	2.19	0.65
45:DN:318:ARG:HB3	45:DN:358:PRO:HD3	1.78	0.65
45:ED:7:ILE:HG12	45:ED:64:ILE:CB	2.24	0.65
45:ED:345:ILE:HA	44:EE:398:MET:HE1	1.78	0.65
44:EE:28:HIS:CE1	44:EE:49:PHE:HA	2.31	0.65
45:EF:263:LEU:HD13	45:EF:422:TYR:CE1	2.32	0.65
45:EH:282:ARG:HH21	45:EH:288:GLU:HB3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:190:HIS:ND1	45:EJ:411:ALA:HA	2.11	0.65
45:EL:139:LEU:CD1	45:EL:168:SER:HB3	2.27	0.65
45:EL:255:VAL:HA	44:EM:407:TRP:HZ3	1.59	0.65
45:EL:325:GLU:O	45:EL:328:GLU:HG2	1.96	0.65
45:FB:385:PHE:O	45:FB:389:PHE:HB2	1.96	0.65
44:FC:222:PRO:HD2	45:FD:324:LYS:HD3	1.79	0.65
45:FD:116:VAL:O	45:FD:119:VAL:HG12	1.97	0.65
44:FE:9:VAL:HG11	44:FE:153:LEU:HD12	1.77	0.65
44:FG:217:LEU:HD13	44:FG:367:ASP:HB3	1.79	0.65
45:FH:267:MET:HB2	45:FH:301:CYS:SG	2.37	0.65
44:FI:141:VAL:HG21	44:FI:172:TYR:HE1	1.62	0.65
44:FM:186:ASN:OD1	44:FM:187:SER:N	2.30	0.65
45:FN:51:TYR:HE1	45:FN:61:PRO:HG3	1.61	0.65
45:FN:127:CYS:SG	45:FN:130:LEU:HB2	2.36	0.65
45:GB:317:PHE:CE1	45:GB:326:VAL:HG13	2.32	0.65
45:GF:54:ALA:HB2	45:HF:283:ALA:HB2	1.78	0.65
45:GF:60:VAL:HG12	45:GF:86:ARG:CZ	2.27	0.65
44:GG:71:GLU:OE2	44:GG:73:THR:HG23	1.97	0.65
45:GJ:186:THR:OG1	45:GJ:415:MET:SD	2.52	0.65
44:GM:394:LYS:HA	44:GM:397:LEU:CD1	2.26	0.65
45:GN:267:MET:CE	45:GN:299:MET:HB3	2.27	0.65
44:HA:325:PRO:HG2	45:HD:222:TYR:HE1	1.61	0.65
44:HC:224:TYR:HE2	45:HD:323:THR:HG21	1.61	0.65
44:HC:427:ALA:O	44:HC:430:LYS:HG3	1.96	0.65
45:HD:325:GLU:OE2	45:HD:326:VAL:HG23	1.96	0.65
44:HG:206:ASN:HA	44:HG:209:ILE:HD12	1.78	0.65
45:HH:112:LEU:O	45:HH:112:LEU:HD23	1.97	0.65
44:HM:141:VAL:HG21	44:HM:172:TYR:HE1	1.62	0.65
45:ID:12:CYS:SG	45:ID:138:SER:HB2	2.37	0.65
45:ID:112:LEU:O	45:ID:112:LEU:HD23	1.96	0.65
45:ID:130:LEU:HD21	45:ID:133:PHE:CE1	2.32	0.65
45:ID:142:GLY:N	48:ID:502:GDP:O2B	2.30	0.65
45:IF:213:ARG:HE	45:IF:297:LYS:CD	2.10	0.65
45:IH:259:PRO:HG2	45:IH:311:LEU:HD21	1.77	0.65
44:IM:294:SER:HA	44:IM:297:GLU:HG3	1.77	0.65
44:JA:188:ILE:CG2	44:JA:189:LEU:HD12	2.24	0.65
44:JA:216:ASN:HB3	44:JA:275:ILE:O	1.95	0.65
44:JE:326:LYS:HG2	45:JH:208:TYR:CD1	2.31	0.65
45:JJ:284:LEU:HB2	45:JJ:362:LYS:HD3	1.79	0.65
44:JK:132:LEU:HD23	44:JK:164:LYS:NZ	2.10	0.65
44:JK:209:ILE:HG21	44:JK:227:LEU:HG	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:201:ALA:N	44:JM:266:HIS:O	2.30	0.65
44:JM:311:LYS:HD3	44:JM:342:GLN:HG3	1.78	0.65
45:JN:209:ASP:OD1	45:JN:210:ILE:HD12	1.96	0.65
45:JN:259:PRO:HG2	45:JN:263:LEU:HD12	1.79	0.65
45:KB:316:LEU:O	45:KB:365:VAL:HA	1.97	0.65
44:KC:110:ILE:HA	44:KC:113:GLU:OE2	1.97	0.65
45:KD:186:THR:O	45:KD:189:VAL:HG12	1.96	0.65
44:KE:313:MET:HG2	44:KE:380:ASN:O	1.97	0.65
45:KF:178:THR:HG22	45:KF:180:VAL:HG12	1.78	0.65
45:KF:318:ARG:NH1	45:KF:358:PRO:HG3	2.11	0.65
45:KH:10:GLY:HA2	45:KH:143:THR:CG2	2.26	0.65
45:KL:151:LEU:O	45:KL:155:VAL:HG23	1.96	0.65
45:KL:163:ILE:HG13	45:KL:251:ARG:HG2	1.79	0.65
44:LC:287:SER:O	44:LC:291:ILE:HG23	1.97	0.65
44:LG:275:ILE:HG23	44:LG:275:ILE:O	1.95	0.65
44:LI:25:CYS:O	44:LI:30:ILE:HG12	1.96	0.65
44:LI:262:TYR:HB3	44:LI:263:PRO:HD2	1.78	0.65
45:LL:114:ASP:OD1	45:LL:115:SER:N	2.29	0.65
45:LL:187:LEU:HD11	45:LL:408:PHE:CZ	2.30	0.65
45:LL:242:PHE:CD2	45:LL:356:ILE:HB	2.31	0.65
45:MB:12:CYS:HB2	48:MB:501:GDP:C8	2.31	0.65
45:MB:172:SER:HB3	45:MB:205:GLU:HB3	1.77	0.65
45:MF:259:PRO:HG2	45:MF:311:LEU:HD13	1.78	0.65
44:MI:222:PRO:CG	45:MJ:324:LYS:HD3	2.26	0.65
44:MK:189:LEU:HD21	44:MK:413:MET:CE	2.26	0.65
44:MM:20:CYS:HA	44:MM:232:ALA:HB1	1.77	0.65
44:MM:138:PHE:HZ	44:MM:235:ILE:HG12	1.61	0.65
45:NB:117:LEU:HG	45:NB:154:LYS:NZ	2.11	0.65
45:NF:116:VAL:HG13	45:NF:117:LEU:HD22	1.77	0.65
45:NF:238:CYS:HB3	45:NF:318:ARG:NH2	2.12	0.65
45:NJ:67:ASP:OD1	45:NJ:68:LEU:N	2.29	0.65
44:NK:141:VAL:CG2	44:NK:187:SER:HA	2.26	0.65
44:NM:431:ASP:O	44:NM:435:VAL:N	2.29	0.65
45:NN:36:TYR:CD1	45:NN:44:LEU:HD21	2.32	0.65
44:OA:326:LYS:NZ	45:OD:220:PRO:O	2.29	0.65
45:OB:47:ILE:HG12	45:OB:51:TYR:HB2	1.77	0.65
45:OB:131:GLN:HA	45:OB:162:ARG:HH21	1.60	0.65
45:OB:215:LEU:HD23	45:OB:217:LEU:HB3	1.78	0.65
45:OD:282:ARG:NE	45:OD:288:GLU:HB3	2.09	0.65
44:OG:189:LEU:HD11	44:OG:418:PHE:CE2	2.32	0.65
44:OG:320:ARG:HG2	44:OG:356:ASN:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:311:LEU:O	45:OH:345:ILE:HD11	1.97	0.65
44:OI:126:ALA:HB1	44:OI:132:LEU:HD21	1.76	0.65
44:OK:177:VAL:HG13	45:OL:327:ASP:HB3	1.79	0.65
44:OK:274:PRO:HG3	44:OK:286:LEU:HD12	1.79	0.65
44:OM:104:ALA:HB2	44:OM:413:MET:HE2	1.79	0.65
44:OM:175:PRO:CG	44:OM:304:LYS:HG2	2.27	0.65
44:OM:218:ASP:HB2	44:OM:280:LYS:HZ1	1.61	0.65
45:ON:86:ARG:HA	45:PN:281:TYR:HE1	1.60	0.65
45:PB:22:GLU:HG2	45:PB:81:PHE:CD1	2.32	0.65
45:PD:99:ASN:HA	45:PD:142:GLY:HA3	1.78	0.65
45:PD:150:LEU:HB3	45:PD:154:LYS:NZ	2.11	0.65
45:PD:151:LEU:O	45:PD:155:VAL:HG23	1.96	0.65
44:PE:60:LYS:HZ1	44:QE:283:HIS:HA	1.60	0.65
44:PE:261:PRO:HA	45:PH:394:PHE:CD2	2.32	0.65
44:PE:321:GLY:HA2	44:PE:359:PRO:HB3	1.77	0.65
45:PF:31:ASP:HB3	45:PF:32:PRO:HD2	1.78	0.65
45:PF:50:TYR:HD2	45:PF:241:ARG:HD3	1.61	0.65
45:PJ:101:TRP:CZ3	45:PJ:187:LEU:HD22	2.31	0.65
45:PJ:130:LEU:HD23	45:PJ:131:GLN:N	2.12	0.65
45:PL:134:GLN:HA	45:PL:165:GLU:O	1.97	0.65
44:PM:188:ILE:HD12	44:PM:425:LEU:CD1	2.23	0.65
45:QB:188:SER:HA	45:QB:191:GLN:NE2	2.11	0.65
44:QE:183:GLU:HG2	44:QE:184:PRO:HD3	1.77	0.65
44:QE:284:GLU:HG3	44:QE:286:LEU:CD2	2.23	0.65
44:QG:250:VAL:HG13	44:QG:254:GLU:OE2	1.97	0.65
45:QH:248:SER:OG	45:QH:253:LEU:HD12	1.97	0.65
44:QI:141:VAL:HG11	44:QI:172:TYR:CD1	2.31	0.65
45:QJ:72:THR:O	45:QJ:75:SER:N	2.30	0.65
45:QJ:77:ARG:NH1	45:QJ:87:PRO:HA	2.11	0.65
45:QJ:86:ARG:CZ	45:RJ:281:TYR:HB2	2.27	0.65
45:QL:200:MET:SD	45:QL:266:PHE:HB2	2.37	0.65
44:RA:384:ILE:O	44:RA:387:VAL:HG22	1.96	0.65
44:RC:68:LEU:HD21	44:RC:118:CYS:SG	2.36	0.65
45:RD:204:ASN:HA	45:RD:207:LEU:CG	2.26	0.65
45:RF:67:ASP:OD1	45:RF:68:LEU:N	2.29	0.65
44:RG:264:ARG:NH2	44:RG:428:LEU:HA	2.11	0.65
45:RJ:7:ILE:HD13	45:RJ:135:ILE:HD12	1.78	0.65
45:RJ:256:ASN:ND2	45:RJ:350:LYS:HD2	2.12	0.65
44:RK:434:GLU:O	44:RK:437:ILE:HG12	1.97	0.65
45:RN:65:LEU:HD22	45:RN:90:PHE:CE1	2.31	0.65
44:SA:250:VAL:HG13	44:SA:254:GLU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:258:ASN:HD22	44:SA:352:LYS:CB	2.09	0.65
45:SB:363:MET:HE3	45:SB:365:VAL:HG23	1.78	0.65
45:SF:199:CYS:O	45:SF:265:PHE:HA	1.97	0.65
44:SG:107:HIS:CE1	44:SG:152:LEU:HD21	2.31	0.65
44:SG:295:ALA:HB1	44:SG:377:MET:CE	2.27	0.65
45:SH:318:ARG:HD3	45:SH:358:PRO:HD3	1.79	0.65
45:SH:319:GLY:C	45:SH:355:ASP:HA	2.16	0.65
44:SI:70:LEU:HD13	44:SI:110:ILE:HD12	1.78	0.65
44:SI:141:VAL:HA	44:SI:147:SER:HB3	1.79	0.65
45:SJ:371:SER:O	45:SJ:422:TYR:OH	2.15	0.65
44:SK:151:SER:O	44:SK:155:GLU:HG3	1.96	0.65
45:SN:152:ILE:HG23	45:SN:164:MET:CE	2.26	0.65
44:TA:171:ILE:HG21	46:TA:501:GTP:N2	2.12	0.65
44:TA:434:GLU:O	44:TA:437:ILE:HG12	1.96	0.65
45:TD:387:ALA:O	45:TD:390:ARG:HG2	1.96	0.65
44:TE:271:SER:OG	44:TE:301:MET:HA	1.95	0.65
45:TF:161:ASP:OD1	45:TF:162:ARG:N	2.29	0.65
45:TH:161:ASP:OD1	45:TH:162:ARG:N	2.29	0.65
44:TI:325:PRO:HA	44:TI:328:VAL:HG23	1.78	0.65
44:TK:276:ILE:HD13	44:TK:281:ALA:O	1.96	0.65
45:TL:267:MET:CE	45:TL:371:SER:HB3	2.26	0.65
45:TL:295:ASP:CG	45:TL:297:LYS:HG2	2.16	0.65
45:TL:401:GLU:HB2	45:TL:403:MET:CE	2.26	0.65
44:TM:73:THR:HA	44:TM:76:ASP:OD2	1.97	0.65
44:TM:124:LYS:O	44:TM:128:ASN:ND2	2.30	0.65
45:TN:8:GLN:HE21	45:TN:14:ASN:HA	1.62	0.65
44:UA:68:LEU:HD21	44:UA:118:CYS:SG	2.37	0.65
44:UA:112:LYS:O	44:UA:115:VAL:HG12	1.97	0.65
44:UA:320:ARG:HA	44:UA:356:ASN:HB3	1.78	0.65
45:UB:325:GLU:HB2	44:UC:221:ARG:HD3	1.79	0.65
45:UD:209:ASP:O	45:UD:213:ARG:HG3	1.97	0.65
44:UI:7:ILE:HB	44:UI:137:VAL:HG23	1.77	0.65
44:UI:23:LEU:CD2	44:UI:233:GLN:HA	2.27	0.65
44:UI:385:ALA:HB2	44:UI:432:TYR:HD2	1.62	0.65
45:UJ:143:THR:HG22	48:UJ:501:GDP:O3B	1.96	0.65
45:UJ:248:SER:CB	45:UJ:252:LYS:HD2	2.27	0.65
44:UK:2:ARG:HD3	44:UK:242:LEU:HB3	1.79	0.65
45:VB:36:TYR:CZ	45:VB:44:LEU:HG	2.31	0.65
44:VC:280:LYS:HA	44:VC:283:HIS:HD2	1.62	0.65
45:VD:47:ILE:HG12	45:VD:51:TYR:CA	2.26	0.65
44:VE:23:LEU:CD2	44:VE:233:GLN:HA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:18:ALA:O	45:VF:22:GLU:HG3	1.97	0.65
44:VG:6:SER:O	44:VG:7:ILE:HD13	1.96	0.65
45:VL:67:ASP:OD2	45:VL:72:THR:HG21	1.96	0.65
44:VM:298:PRO:CB	44:VM:307:PRO:HD2	2.26	0.65
45:VN:269:GLY:HA2	45:VN:300:MET:SD	2.36	0.65
45:WB:193:VAL:HG23	45:WB:264:HIS:CE1	2.31	0.65
45:WB:217:LEU:O	45:WB:217:LEU:HD12	1.97	0.65
44:WC:13:GLY:HA2	44:WC:16:VAL:HG12	1.78	0.65
45:WF:103:LYS:HD3	45:WF:401:GLU:OE2	1.95	0.65
45:WF:318:ARG:NH1	45:WF:358:PRO:HG3	2.11	0.65
44:WG:398:MET:CE	45:WH:346:PRO:HD2	2.26	0.65
45:WJ:296:ALA:HA	45:WJ:305:PRO:HG2	1.79	0.65
44:WK:320:ARG:HA	44:WK:356:ASN:O	1.97	0.65
45:WL:143:THR:O	45:WL:147:MET:HB3	1.95	0.65
45:WN:47:ILE:HD13	45:WN:59:TYR:CE2	2.32	0.65
4:OC:88:GLU:OE2	44:EI:225:THR:HG21	1.96	0.65
8:OG:178:LYS:HZ2	44:LM:329:ASN:HB2	1.58	0.65
26:1R:296:PRO:HD2	45:CD:77:ARG:NH2	2.12	0.65
15:1V:69:SER:OG	45:MJ:336:LYS:O	2.14	0.65
27:1W:114:ASN:OD1	45:LF:279:GLN:NE2	2.30	0.65
27:1W:189:ARG:NH2	44:LA:41:THR:HB	2.09	0.65
32:2I:113:ASP:HB3	44:FC:160:ASP:O	1.97	0.65
26:2R:258:VAL:HG23	44:CG:41:THR:HG23	1.78	0.65
15:2V:138:ALA:HB1	44:LG:402:ARG:HD2	1.77	0.65
16:2X:97:GLN:OE1	44:LG:58:ALA:HB1	1.95	0.65
34:4F:34:VAL:HG22	45:HJ:41:ASP:OD2	1.95	0.65
37:5C:134:VAL:HG21	45:KL:427:ASP:HB3	1.77	0.65
37:5D:117:PRO:CD	44:NM:323:VAL:HG22	2.26	0.65
38:5G:41:THR:HB	44:OG:372:MET:CE	2.25	0.65
38:5H:31:SER:CB	38:5H:35:LEU:HD12	2.26	0.65
39:5J:154:TYR:OH	44:NI:309:HIS:O	2.14	0.65
39:5K:98:LEU:HA	39:5K:101:ILE:HB	1.78	0.65
35:5R:80:ARG:HH22	44:MI:33:ASP:HB2	1.61	0.65
41:6G:218:GLU:OE2	44:VC:333:ALA:HB1	1.97	0.65
35:7R:496:ILE:O	35:7R:503:PHE:N	2.30	0.65
45:AB:316:LEU:HB2	45:AB:366:THR:HB	1.79	0.65
44:AC:249:ASN:OD1	45:AF:11:GLN:NE2	2.25	0.65
44:AC:312:TYR:O	44:AC:344:VAL:HG13	1.97	0.65
44:AE:88:HIS:HE1	44:AE:90:GLU:HG2	1.61	0.65
44:AG:76:ASP:OD2	45:AH:46:ARG:NH2	2.30	0.65
44:AI:171:ILE:HD13	46:AI:501:GTP:HN22	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AJ:342:VAL:CG1	45:AJ:345:ILE:HG22	2.27	0.65
44:AK:174:SER:HB2	44:AK:177:VAL:O	1.96	0.65
44:AK:332:ILE:HD12	44:AK:351:PHE:CD2	2.32	0.65
45:AL:172:SER:OG	45:AL:175:VAL:HG22	1.97	0.65
44:AM:271:SER:OG	44:AM:301:MET:HA	1.96	0.65
45:BD:147:MET:O	45:BD:150:LEU:HG	1.97	0.65
45:BD:399:THR:HA	45:BD:403:MET:O	1.96	0.65
45:BF:65:LEU:HD22	45:BF:90:PHE:CE1	2.31	0.65
45:BJ:213:ARG:HE	45:BJ:297:LYS:HE2	1.62	0.65
44:BK:402:ARG:O	44:BK:405:VAL:HG12	1.96	0.65
45:BN:310:TYR:CE1	45:BN:371:SER:HB2	2.32	0.65
44:CA:47:ASP:HA	44:CA:50:ASN:HB2	1.78	0.65
44:CC:155:GLU:O	44:CC:159:VAL:HG12	1.96	0.65
45:CJ:314:SER:CB	45:CJ:350:LYS:HB3	2.26	0.65
45:CL:325:GLU:HA	45:CL:328:GLU:CG	2.27	0.65
45:CL:339:SER:HB2	45:CL:340:TYR:OH	1.96	0.65
45:CN:172:SER:OG	45:CN:205:GLU:HB2	1.96	0.65
44:DA:257:THR:OG1	45:DB:98:GLY:O	2.10	0.65
45:DD:296:ALA:HA	45:DD:299:MET:HE1	1.79	0.65
44:DE:215:ARG:NH2	44:DE:300:ASN:OD1	2.23	0.65
44:DE:346:TRP:CZ3	44:DE:347:CYS:HB2	2.31	0.65
45:DF:199:CYS:HB3	45:DF:265:PHE:CD1	2.31	0.65
45:DH:52:ASN:OD1	45:DH:62:ARG:NH2	2.27	0.65
45:DJ:14:ASN:O	45:DJ:18:ALA:N	2.28	0.65
45:DJ:321:MET:CE	45:DJ:326:VAL:HG22	2.27	0.65
44:DK:71:GLU:OE1	44:DK:73:THR:N	2.28	0.65
45:DN:11:GLN:HA	45:DN:72:THR:HG21	1.79	0.65
45:DN:50:TYR:CD2	45:DN:241:ARG:HD3	2.31	0.65
45:DN:203:ASP:O	45:DN:207:LEU:HG	1.97	0.65
44:EC:101:ASN:HA	44:EC:144:GLY:HA3	1.78	0.65
44:EC:212:ILE:HD11	44:EC:300:ASN:CA	2.21	0.65
45:EF:4:ILE:HG22	45:EF:132:GLY:H	1.62	0.65
44:EG:28:HIS:NE2	44:EG:243:ARG:HD2	2.12	0.65
45:EL:172:SER:OG	45:EL:175:VAL:HG22	1.96	0.65
44:EM:90:GLU:O	44:EM:121:ARG:NH2	2.30	0.65
45:FB:105:HIS:NE2	45:FB:150:LEU:HB2	2.12	0.65
45:FB:178:THR:HG22	45:FB:180:VAL:H	1.61	0.65
45:FD:3:GLU:HB3	45:FD:49:VAL:HA	1.79	0.65
44:FE:203:MET:HG3	44:FE:384:ILE:HD11	1.79	0.65
44:FE:203:MET:N	44:FE:268:MET:O	2.30	0.65
45:FF:54:ALA:HA	45:GF:283:ALA:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:329:GLN:O	45:FH:333:VAL:N	2.26	0.65
44:FI:209:ILE:HA	44:FI:212:ILE:HG22	1.78	0.65
45:FJ:317:PHE:HB3	45:FJ:321:MET:SD	2.37	0.65
44:FK:141:VAL:HG23	44:FK:190:SER:OG	1.97	0.65
45:FL:166:THR:HG21	45:FL:192:LEU:HD11	1.79	0.65
45:FL:268:ILE:HG22	45:FL:368:VAL:HA	1.78	0.65
44:GC:104:ALA:HB2	44:GC:413:MET:CE	2.26	0.65
44:GC:176:GLN:OE1	45:GD:331:LEU:HD21	1.96	0.65
45:GD:42:LEU:HG	45:GD:45:GLU:OE2	1.97	0.65
45:GD:237:THR:HG22	45:GD:240:LEU:HB3	1.79	0.65
44:GE:66:VAL:HG21	44:GE:122:ILE:CD1	2.27	0.65
45:GF:113:ILE:HG13	45:GF:116:VAL:CG1	2.26	0.65
44:GI:89:PRO:HD3	44:HI:283:HIS:CE1	2.32	0.65
44:GK:143:GLY:HA3	46:GL:501:GTP:O2B	1.97	0.65
45:GL:183:TYR:CE2	45:GL:394:PHE:HB2	2.30	0.65
45:GN:274:THR:HB	45:GN:282:ARG:NH1	2.11	0.65
45:HB:371:SER:O	45:HB:374:ILE:HG12	1.96	0.65
44:HC:386:GLU:O	44:HC:390:ARG:HG2	1.96	0.65
44:HE:105:ARG:O	44:HE:110:ILE:HG12	1.97	0.65
45:HF:1:MET:O	45:HF:2:ARG:HG2	1.97	0.65
45:HH:376:GLU:HG3	45:HH:380:ARG:HH21	1.62	0.65
44:HI:89:PRO:HG3	44:II:280:LYS:HB3	1.78	0.65
44:HI:217:LEU:HD22	44:HI:367:ASP:HB3	1.78	0.65
45:HJ:135:ILE:HG13	45:HJ:152:ILE:CD1	2.26	0.65
44:HM:27:GLU:HB2	44:HM:361:THR:HG21	1.78	0.65
44:IA:171:ILE:HG12	44:IA:204:LEU:HB2	1.78	0.65
44:IC:166:LYS:C	44:IC:167:LEU:HD12	2.17	0.65
44:IE:10:GLY:O	44:IE:14:ILE:HG13	1.96	0.65
44:IE:22:GLU:HG3	44:IE:83:TYR:CE2	2.27	0.65
45:IF:12:CYS:SG	45:IF:138:SER:HB3	2.36	0.65
45:IF:286:VAL:HG22	45:IF:287:PRO:HD3	1.79	0.65
45:IH:388:MET:HE3	45:IH:393:ALA:HB3	1.77	0.65
44:II:332:ILE:HG23	44:II:351:PHE:CD2	2.31	0.65
45:IL:162:ARG:NE	45:IL:162:ARG:HA	2.11	0.65
45:IL:170:VAL:HG23	45:IL:171:PRO:HD2	1.78	0.65
45:IN:208:TYR:CD1	45:IN:225:LEU:HD21	2.31	0.65
45:JF:7:ILE:HG23	45:JF:64:ILE:CB	2.26	0.65
45:JF:113:ILE:O	45:JF:116:VAL:HG12	1.96	0.65
45:JF:136:THR:HG22	45:JF:167:PHE:HB2	1.79	0.65
45:JF:314:SER:CA	45:JF:350:LYS:HE3	2.27	0.65
44:JI:210:TYR:CD2	45:JJ:324:LYS:HG3	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:188:ILE:HG13	44:JK:189:LEU:N	2.12	0.65
44:JM:56:THR:CG2	44:JM:60:LYS:HE3	2.27	0.65
44:KA:210:TYR:HB3	45:KB:324:LYS:CE	2.27	0.65
44:KA:422:ARG:NH1	44:KA:426:ALA:HB2	2.11	0.65
45:KB:28:HIS:HB2	45:KB:30:ILE:CD1	2.27	0.65
45:KB:138:SER:OG	45:KB:169:VAL:HB	1.96	0.65
45:KH:105:HIS:ND1	45:KH:150:LEU:HD12	2.12	0.65
45:KJ:105:HIS:CD2	45:KJ:150:LEU:HB2	2.32	0.65
44:LA:351:PHE:N	45:LD:179:VAL:HG12	2.11	0.65
45:LB:122:LYS:HZ1	45:MB:291:GLN:HG2	1.61	0.65
45:LB:354:CYS:SG	45:LB:356:ILE:HG22	2.36	0.65
44:LC:88:HIS:CE1	44:LC:90:GLU:HG2	2.31	0.65
45:LF:260:PHE:HB3	45:LF:261:PRO:HD2	1.77	0.65
45:LJ:392:LYS:HD2	45:LJ:395:LEU:CD2	2.27	0.65
45:LN:73:MET:O	45:LN:76:VAL:HG12	1.97	0.65
45:MB:3:GLU:OE1	45:MB:3:GLU:N	2.30	0.65
45:MB:287:PRO:O	45:MB:290:THR:HG22	1.96	0.65
44:ME:315:CYS:SG	44:ME:379:SER:OG	2.33	0.65
45:MF:267:MET:CE	45:MF:371:SER:HB3	2.27	0.65
44:MG:261:PRO:HA	45:MJ:394:PHE:HE1	1.60	0.65
45:MH:3:GLU:HG3	45:MH:62:ARG:NH1	2.10	0.65
45:MH:178:THR:HB	45:MH:181:GLU:CG	2.26	0.65
45:MJ:184:ASN:OD1	45:MJ:185:ALA:N	2.30	0.65
44:MK:243:ARG:HG3	44:MK:244:PHE:CE2	2.32	0.65
44:MM:14:ILE:HD11	44:MM:69:ASP:HB2	1.79	0.65
45:MN:105:HIS:HB2	45:MN:146:GLY:CA	2.26	0.65
45:MN:291:GLN:NE2	45:MN:292:GLN:HB2	2.11	0.65
45:NB:97:ALA:CB	45:NB:143:THR:HB	2.25	0.65
45:NB:239:CYS:SG	45:NB:248:SER:N	2.70	0.65
44:NG:169:PHE:HD1	44:NG:202:VAL:HG22	1.61	0.65
44:NG:176:GLN:NE2	45:NH:331:LEU:HD21	2.12	0.65
44:NK:71:GLU:CG	44:NK:98:ASP:HB2	2.26	0.65
45:OB:131:GLN:HA	45:OB:162:ARG:NH2	2.12	0.65
44:OG:98:ASP:O	44:OG:105:ARG:NH1	2.30	0.65
44:OG:141:VAL:HG23	44:OG:190:SER:OG	1.97	0.65
44:OG:295:ALA:CB	44:OG:377:MET:HE3	2.27	0.65
45:OH:309:ARG:O	45:OH:372:THR:OG1	2.13	0.65
44:OI:107:HIS:ND1	44:OI:148:GLY:O	2.28	0.65
44:OK:68:LEU:CD2	44:OK:93:ILE:HB	2.26	0.65
44:OM:333:ALA:O	44:OM:337:THR:HG23	1.96	0.65
45:PD:61:PRO:HD2	45:PD:84:LEU:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:16:VAL:HG12	44:PE:228:ASN:HD22	1.59	0.65
44:PE:414:GLU:HB2	44:PE:417:GLU:OE1	1.96	0.65
45:PF:87:PRO:HA	45:PF:90:PHE:HD2	1.62	0.65
44:PG:229:ARG:NH1	44:PG:363:VAL:HG11	2.11	0.65
45:PH:69:GLU:OE1	45:PH:71:GLY:N	2.27	0.65
44:PI:195:LEU:HD21	44:PI:264:ARG:NH1	2.11	0.65
45:PJ:240:LEU:O	45:PJ:240:LEU:HD23	1.97	0.65
45:PL:253:LEU:O	45:PL:257:LEU:HD13	1.97	0.65
45:PL:257:LEU:HB3	45:PL:266:PHE:CZ	2.31	0.65
44:QE:51:THR:CB	44:QE:243:ARG:HD3	2.23	0.65
44:QE:191:THR:CA	44:QE:194:LEU:HG	2.24	0.65
44:QG:5:ILE:HD11	44:QG:129:CYS:SG	2.37	0.65
44:QG:9:VAL:HA	44:QG:68:LEU:O	1.97	0.65
45:QJ:187:LEU:HD21	45:QJ:408:PHE:CD1	2.32	0.65
45:QJ:259:PRO:HA	44:QK:404:PHE:CE2	2.32	0.65
45:QL:65:LEU:HD21	45:QL:85:PHE:HD2	1.62	0.65
45:QL:286:VAL:CG1	45:QL:287:PRO:HD3	2.25	0.65
44:QM:141:VAL:CG1	44:QM:172:TYR:HA	2.26	0.65
45:RB:248:SER:OG	45:RB:253:LEU:HD12	1.96	0.65
45:RD:200:MET:HE3	45:RD:267:MET:HA	1.77	0.65
45:RJ:238:CYS:HB2	45:RJ:318:ARG:HH21	1.60	0.65
45:RJ:334:GLN:HB2	45:RJ:349:ILE:HD11	1.79	0.65
44:RK:54:SER:OG	44:RK:62:VAL:O	2.12	0.65
45:RL:85:PHE:O	45:RL:87:PRO:HD3	1.96	0.65
44:RM:132:LEU:CD2	44:RM:164:LYS:HE2	2.26	0.65
44:RM:234:VAL:HA	44:RM:237:SER:HB2	1.79	0.65
45:RN:175:VAL:HG22	45:RN:205:GLU:HB2	1.77	0.65
45:RN:272:PRO:HD3	45:RN:289:LEU:HD21	1.77	0.65
45:SB:182:PRO:HB2	45:SB:388:MET:HE1	1.77	0.65
45:SD:112:LEU:O	45:SD:112:LEU:HD23	1.97	0.65
45:SF:32:PRO:HG3	45:SF:81:PHE:CE1	2.31	0.65
45:SF:69:GLU:OE1	45:SF:71:GLY:N	2.27	0.65
44:SG:363:VAL:HG23	44:SG:364:PRO:HD2	1.79	0.65
45:SH:116:VAL:HG22	45:SH:120:VAL:HG23	1.79	0.65
44:SI:207:GLU:HG3	44:SI:304:LYS:HZ2	1.61	0.65
44:SK:4:VAL:HG12	44:SK:51:THR:O	1.97	0.65
44:SK:305:CYS:SG	44:SK:306:ASP:N	2.69	0.65
45:SL:357:PRO:HB3	45:SL:362:LYS:O	1.97	0.65
44:SM:248:LEU:HB3	44:SM:355:ILE:N	2.12	0.65
44:SM:313:MET:HG2	44:SM:380:ASN:O	1.97	0.65
45:SN:163:ILE:HD11	45:SN:251:ARG:NH1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:137:VAL:HG12	44:TA:167:LEU:O	1.96	0.65
44:TC:142:GLY:HA2	44:TC:186:ASN:HD21	1.60	0.65
44:TC:195:LEU:O	44:TC:266:HIS:NE2	2.30	0.65
44:TC:229:ARG:NH1	44:TC:363:VAL:HG11	2.12	0.65
44:TE:92:LEU:O	44:TE:92:LEU:HD23	1.96	0.65
44:TE:288:VAL:HA	44:TE:291:ILE:CD1	2.26	0.65
45:TF:131:GLN:HG3	45:TF:163:ILE:HG12	1.78	0.65
45:TF:321:MET:HE1	45:TF:326:VAL:HG22	1.79	0.65
45:TF:344:TRP:CZ3	45:TF:345:ILE:HB	2.32	0.65
44:TG:28:HIS:CE1	44:TG:243:ARG:HD2	2.32	0.65
44:TG:315:CYS:SG	44:TG:379:SER:HB3	2.37	0.65
44:TI:180:ALA:HB3	44:TI:183:GLU:OE1	1.97	0.65
44:TK:226:ASN:HA	44:TK:229:ARG:CZ	2.27	0.65
45:TL:246:LEU:HA	44:TM:11:GLN:NE2	2.06	0.65
44:UA:312:TYR:HB3	44:UA:343:PHE:CD1	2.32	0.65
45:UB:22:GLU:HA	45:UB:81:PHE:CE2	2.31	0.65
44:UE:8:HIS:CE1	44:UE:21:TRP:HE1	2.14	0.65
44:UE:91:GLN:HG2	44:UE:121:ARG:CZ	2.26	0.65
44:UE:213:CYS:O	44:UE:218:ASP:N	2.30	0.65
44:UE:242:LEU:HD11	44:UE:252:ILE:CG1	2.26	0.65
44:UE:269:LEU:HD12	44:UE:301:MET:HB3	1.79	0.65
45:UF:2:ARG:HB2	45:UF:131:GLN:OE1	1.96	0.65
44:UI:51:THR:HG21	44:UI:243:ARG:HD3	1.78	0.65
45:UJ:181:GLU:HA	45:UJ:184:ASN:OD1	1.97	0.65
44:UK:14:ILE:HD13	44:UK:75:ILE:CD1	2.26	0.65
45:UL:86:ARG:HE	45:UL:86:ARG:HA	1.62	0.65
44:UM:118:CYS:SG	44:UM:122:ILE:HD11	2.37	0.65
44:UM:212:ILE:CD1	44:UM:215:ARG:HH22	2.08	0.65
44:UM:287:SER:O	44:UM:373:ARG:NH2	2.30	0.65
44:VA:221:ARG:CZ	45:VB:322:SER:HB3	2.27	0.65
44:VA:431:ASP:O	44:VA:435:VAL:N	2.30	0.65
45:VD:198:GLU:OE1	45:VD:258:ILE:HD11	1.96	0.65
45:VF:135:ILE:N	45:VF:165:GLU:O	2.28	0.65
44:VG:56:THR:O	44:WG:285:GLN:HA	1.97	0.65
44:VG:269:LEU:HD23	44:VG:269:LEU:H	1.61	0.65
44:VI:257:THR:HA	45:VL:397:TRP:CZ3	2.32	0.65
45:VN:233:MET:HA	45:VN:236:VAL:CG2	2.26	0.65
44:WA:192:HIS:CG	44:WA:421:ALA:HA	2.31	0.65
44:WA:275:ILE:O	44:WA:275:ILE:HG23	1.96	0.65
45:WB:32:PRO:HA	45:WB:81:PHE:CD2	2.32	0.65
45:WB:65:LEU:HD23	45:WB:73:MET:SD	2.37	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:134:GLN:O	45:WB:135:ILE:HD13	1.97	0.65
44:WC:286:LEU:N	44:WC:290:GLU:OE2	2.29	0.65
45:WD:330:MET:SD	45:WD:349:ILE:HG21	2.37	0.65
44:WE:274:PRO:HB2	44:WE:276:ILE:CD1	2.26	0.65
44:WG:22:GLU:HG3	44:WG:83:TYR:OH	1.96	0.65
45:WJ:117:LEU:HG	45:WJ:121:ARG:NH1	2.11	0.65
44:WK:293:ASN:OD1	44:WK:294:SER:N	2.30	0.65
45:WL:8:GLN:HE22	45:WL:17:GLY:HA3	1.61	0.65
44:WM:136:LEU:HA	44:WM:167:LEU:O	1.96	0.65
1:6H:266:LYS:NZ	44:FE:364:PRO:CG	2.55	0.65
3:0B:289:ALA:HA	45:KL:360:GLY:O	1.94	0.65
10:0N:190:PRO:HG2	44:KK:42:ILE:HG12	1.78	0.65
2:1A:91:ASN:HB3	45:MF:37:HIS:CE1	2.32	0.65
18:1F:65:THR:HG22	45:GL:35:THR:HG21	1.79	0.65
8:1G:142:LYS:HE2	44:JA:84:ARG:HD3	1.79	0.65
27:1W:77:GLN:HB3	44:LE:372:MET:HE1	1.78	0.65
2:2A:36:ARG:NH2	45:MJ:243:PRO:HD2	2.09	0.65
5:2D:217:ALA:CB	35:5R:431:ILE:HD11	2.20	0.65
32:3I:243:LYS:HE3	44:GI:215:ARG:HH21	1.55	0.65
41:6G:265:LEU:CG	44:VA:339:ARG:HD2	2.26	0.65
35:7R:404:LEU:HD13	45:DB:77:ARG:NH1	2.11	0.65
35:7R:518:SER:O	35:7R:520:PRO:HD3	1.96	0.65
44:AA:4:VAL:HG23	44:AA:134:GLY:O	1.97	0.65
44:AC:311:LYS:HD2	44:AC:342:GLN:HG3	1.78	0.65
44:AI:14:ILE:HD13	44:AI:75:ILE:CD1	2.27	0.65
44:AI:254:GLU:CG	45:AL:98:GLY:HA2	2.23	0.65
45:AJ:12:CYS:SG	45:AJ:138:SER:HB2	2.37	0.65
44:AK:413:MET:SD	44:AK:417:GLU:HG2	2.37	0.65
44:AM:141:VAL:HG11	44:AM:172:TYR:CD1	2.32	0.65
45:AN:259:PRO:HB2	45:AN:260:PHE:CD2	2.32	0.65
44:BC:261:PRO:HA	45:BF:394:PHE:CE2	2.32	0.65
44:BE:434:GLU:O	44:BE:437:ILE:HG12	1.97	0.65
44:BG:174:SER:HB2	44:BG:177:VAL:O	1.96	0.65
44:BG:210:TYR:CE2	44:BG:227:LEU:HD11	2.31	0.65
44:BI:252:ILE:HA	44:BI:255:PHE:HD2	1.61	0.65
45:BJ:73:MET:HA	45:BJ:76:VAL:HG12	1.79	0.65
45:BJ:156:ARG:HG2	45:BJ:195:ASN:ND2	2.12	0.65
45:BJ:318:ARG:HH21	45:BJ:358:PRO:CG	2.10	0.65
45:BN:251:ARG:HG2	45:BN:251:ARG:HH11	1.59	0.65
44:CA:2:ARG:HB2	44:CA:133:GLN:OE1	1.96	0.65
45:CB:211:CYS:HB3	45:CB:217:LEU:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:302:ALA:HB3	45:CH:377:MET:CE	2.27	0.65
44:CK:98:ASP:OD1	44:CK:99:ALA:N	2.29	0.65
44:CK:276:ILE:HD13	44:CK:281:ALA:HA	1.78	0.65
44:CM:204:LEU:HD22	44:CM:231:ILE:CG1	2.26	0.65
45:CN:61:PRO:HG2	45:CN:84:LEU:HB3	1.79	0.65
45:DD:334:GLN:HG3	45:DD:341:PHE:CD2	2.31	0.65
45:DD:372:THR:HA	45:DD:422:TYR:CE2	2.26	0.65
45:DF:186:THR:HG21	45:DF:385:PHE:CE1	2.32	0.65
45:DF:392:LYS:CD	45:DF:395:LEU:HD23	2.27	0.65
45:DH:150:LEU:CD2	45:DH:154:LYS:HG3	2.27	0.65
44:DI:210:TYR:CE1	44:DI:227:LEU:HD11	2.32	0.65
44:DI:346:TRP:CE3	44:DI:347:CYS:HB2	2.32	0.65
44:DK:188:ILE:HG23	44:DK:425:LEU:HD11	1.79	0.65
44:DK:265:ILE:HD11	44:DK:435:VAL:HG11	1.79	0.65
44:DM:108:TYR:HA	44:DM:112:LYS:HE3	1.78	0.65
45:DN:113:ILE:CD1	45:DN:150:LEU:HD22	2.23	0.65
45:DN:113:ILE:O	45:DN:116:VAL:HG12	1.97	0.65
44:EA:263:PRO:HD3	45:EB:396:HIS:CD2	2.31	0.65
44:EA:322:ASP:OD1	44:EA:373:ARG:NH1	2.28	0.65
45:EB:314:SER:HA	45:EB:350:LYS:O	1.96	0.65
44:EC:312:TYR:CD1	44:EC:381:SER:HB3	2.31	0.65
45:EF:248:SER:CA	45:EF:252:LYS:HD2	2.27	0.65
45:EJ:86:ARG:NH2	45:FJ:281:TYR:HB2	2.12	0.65
45:EJ:322:SER:HB3	44:EK:221:ARG:CD	2.27	0.65
44:EM:287:SER:O	44:EM:291:ILE:HG23	1.96	0.65
44:EM:295:ALA:HB1	44:EM:377:MET:CE	2.25	0.65
45:FB:372:THR:HA	45:FB:422:TYR:HE2	1.62	0.65
45:FD:97:ALA:HB3	45:FD:143:THR:HG22	1.79	0.65
45:FD:319:GLY:HA3	45:FD:363:MET:CE	2.26	0.65
44:FE:7:ILE:HD11	44:FE:137:VAL:HB	1.78	0.65
44:FE:235:ILE:O	44:FE:239:THR:HG22	1.97	0.65
44:FG:288:VAL:HG11	44:FG:327:ASP:HB3	1.78	0.65
45:FH:314:SER:HB3	45:FH:368:VAL:HG23	1.78	0.65
45:FJ:18:ALA:O	45:FJ:22:GLU:HG3	1.96	0.65
45:FJ:187:LEU:HD21	45:FJ:408:PHE:CE1	2.32	0.65
45:FJ:252:LYS:O	45:FJ:255:VAL:HG12	1.97	0.65
44:GA:175:PRO:HD2	44:GA:207:GLU:OE1	1.97	0.65
44:GC:224:TYR:CD2	45:GD:323:THR:HG21	2.32	0.65
45:GD:289:LEU:HD13	45:GD:365:VAL:CG2	2.26	0.65
44:GG:326:LYS:HB2	45:GJ:212:PHE:CZ	2.32	0.65
44:GK:105:ARG:NH1	45:GL:251:ARG:HH21	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:7:ILE:HD11	45:GL:120:VAL:HG23	1.79	0.65
45:GL:290:THR:HA	45:GL:293:MET:HG2	1.78	0.65
44:GM:202:VAL:HA	44:GM:268:MET:O	1.97	0.65
45:GN:102:ALA:HB2	45:GN:403:MET:HE3	1.79	0.65
44:HC:73:THR:HA	45:HD:46:ARG:NH2	2.11	0.65
45:HD:60:VAL:HG21	45:HD:86:ARG:CG	2.26	0.65
45:HD:105:HIS:CE1	45:HD:150:LEU:HD12	2.32	0.65
45:HF:45:GLU:O	45:HF:46:ARG:HD3	1.96	0.65
45:HJ:167:PHE:CE2	45:HJ:233:MET:HG2	2.32	0.65
45:HJ:233:MET:O	45:HJ:236:VAL:HG12	1.96	0.65
45:HJ:288:GLU:O	45:HJ:291:GLN:HG3	1.96	0.65
44:HK:377:MET:O	44:HK:378:ILE:HD13	1.97	0.65
45:HL:184:ASN:O	45:HL:188:SER:HB3	1.97	0.65
44:HM:213:CYS:O	44:HM:217:LEU:HB2	1.97	0.65
45:HN:8:GLN:HE21	45:HN:65:LEU:HG	1.60	0.65
45:HN:50:TYR:HE2	45:HN:241:ARG:HD3	1.61	0.65
45:HN:290:THR:OG1	45:HN:329:GLN:OE1	2.06	0.65
45:ID:210:ILE:CD1	45:ID:300:MET:HG3	2.26	0.65
44:IG:11:GLN:N	46:IG:501:GTP:O2B	2.30	0.65
44:IG:26:LEU:CD2	44:IG:363:VAL:HA	2.26	0.65
45:IH:143:THR:HG22	48:IH:502:GDP:O2B	1.96	0.65
44:II:224:TYR:HE2	45:IJ:246:LEU:HD11	1.62	0.65
44:IK:33:ASP:HB3	44:IK:35:GLN:HE22	1.62	0.65
44:JA:69:ASP:OD1	44:JA:71:GLU:HG2	1.97	0.65
45:JB:168:SER:O	45:JB:202:ILE:N	2.29	0.65
44:JE:90:GLU:HB3	44:KE:280:LYS:NZ	2.12	0.65
44:JE:105:ARG:HH12	45:JF:251:ARG:HH11	1.45	0.65
44:JE:183:GLU:N	44:JE:184:PRO:HD2	2.11	0.65
45:JH:28:HIS:HA	45:JH:43:GLN:NE2	2.12	0.65
45:JH:202:ILE:HD11	45:JH:268:ILE:CD1	2.27	0.65
44:JK:99:ALA:CB	44:JK:145:THR:HB	2.27	0.65
44:JM:205:ASP:OD1	44:JM:303:ALA:HA	1.97	0.65
45:JN:189:VAL:HG11	45:JN:415:MET:HE2	1.79	0.65
44:KA:202:VAL:HG21	44:KA:378:ILE:HD11	1.79	0.65
45:KB:139:LEU:HD23	45:KB:188:SER:OG	1.96	0.65
44:KE:411:GLU:OE1	44:KE:411:GLU:N	2.30	0.65
44:KG:242:LEU:HD11	44:KG:252:ILE:CD1	2.18	0.65
44:KI:406:HIS:CD2	45:KJ:261:PRO:HG3	2.31	0.65
45:KJ:231:ALA:HB1	45:KJ:270:PHE:CE1	2.31	0.65
44:KK:270:SER:O	44:KK:302:MET:HB3	1.96	0.65
44:KK:428:LEU:HA	44:KK:431:ASP:OD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LG:49:PHE:O	44:LG:53:PHE:N	2.30	0.65
44:LG:319:TYR:HB2	44:LG:355:ILE:HD13	1.79	0.65
44:LI:56:THR:HA	44:MI:285:GLN:HB3	1.77	0.65
44:LK:258:ASN:HD22	44:LK:352:LYS:HD2	1.62	0.65
44:MA:195:LEU:HD11	44:MA:428:LEU:HD13	1.79	0.65
44:MA:295:ALA:HB1	44:MA:377:MET:HE2	1.77	0.65
45:MB:31:ASP:O	45:MB:34:GLY:N	2.24	0.65
44:MC:268:MET:HG3	44:MC:378:ILE:HG22	1.79	0.65
45:MD:173:PRO:CB	45:MD:380:ARG:HD3	2.27	0.65
44:ME:237:SER:HA	44:ME:320:ARG:HH11	1.62	0.65
44:MG:155:GLU:HG2	44:MG:197:HIS:NE2	2.11	0.65
45:MH:67:ASP:CB	45:MH:72:THR:HG21	2.27	0.65
45:ML:302:ALA:HB3	45:ML:377:MET:CE	2.27	0.65
44:NA:370:LYS:HD2	44:NA:372:MET:HE1	1.77	0.65
45:NB:371:SER:O	45:NB:422:TYR:OH	2.12	0.65
44:NE:153:LEU:O	44:NE:157:LEU:HD23	1.97	0.65
44:NG:328:VAL:HG11	44:NG:353:VAL:CG2	2.26	0.65
45:NH:73:MET:HE1	45:NH:92:PHE:HB3	1.78	0.65
44:NI:319:TYR:CE1	44:NI:328:VAL:HG13	2.31	0.65
45:NL:193:VAL:O	45:NL:264:HIS:NE2	2.26	0.65
44:NM:108:TYR:HA	44:NM:112:LYS:NZ	2.12	0.65
44:NM:264:ARG:HD3	44:NM:264:ARG:C	2.17	0.65
45:NN:47:ILE:HG22	45:NN:51:TYR:HB2	1.77	0.65
45:NN:213:ARG:NE	45:NN:297:LYS:HD2	2.12	0.65
45:NN:318:ARG:NH1	45:NN:358:PRO:HD3	2.09	0.65
44:OE:171:ILE:HG23	44:OE:204:LEU:O	1.97	0.65
44:OE:224:TYR:CD1	45:OF:323:THR:HG21	2.32	0.65
45:OF:20:PHE:O	45:OF:24:ILE:HG12	1.97	0.65
44:OG:387:VAL:HA	44:OG:390:ARG:HG2	1.79	0.65
44:OK:74:VAL:HG23	44:OK:75:ILE:HD12	1.78	0.65
44:OM:34:GLY:HA3	44:OM:60:LYS:HG3	1.77	0.65
44:OM:137:VAL:CG2	44:OM:168:GLY:HA2	2.27	0.65
45:ON:30:ILE:HD11	45:ON:47:ILE:HD11	1.79	0.65
44:PA:351:PHE:O	45:PD:178:THR:N	2.30	0.65
45:PB:318:ARG:HH11	45:PB:358:PRO:HG3	1.61	0.65
45:PD:3:GLU:CB	45:PD:49:VAL:HA	2.27	0.65
45:PD:52:ASN:HB2	45:PD:62:ARG:CZ	2.26	0.65
44:PE:26:LEU:CD2	44:PE:363:VAL:HA	2.27	0.65
45:PJ:7:ILE:HG12	45:PJ:64:ILE:HB	1.79	0.65
45:PJ:113:ILE:CD1	45:PJ:150:LEU:HD22	2.26	0.65
44:PK:289:ALA:O	44:PK:292:THR:HG22	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:404:PHE:CZ	45:PL:259:PRO:HA	2.32	0.65
45:PL:420:SER:O	45:PL:423:GLN:HG3	1.97	0.65
44:PM:32:PRO:HB3	44:PM:83:TYR:HD1	1.62	0.65
45:QB:190:HIS:ND1	45:QB:411:ALA:HA	2.11	0.65
45:QB:318:ARG:HD3	45:QB:358:PRO:CG	2.27	0.65
45:QD:58:ARG:HG3	45:RD:281:TYR:CE1	2.32	0.65
45:QD:73:MET:CE	45:QD:92:PHE:HB3	2.27	0.65
45:QF:86:ARG:NH2	45:RF:278:SER:HA	2.10	0.65
45:QH:3:GLU:HB2	45:QH:62:ARG:HH22	1.61	0.65
45:QJ:177:ASP:N	45:QJ:181:GLU:OE2	2.29	0.65
45:QJ:374:ILE:HA	45:QJ:377:MET:HE1	1.78	0.65
44:RA:310:GLY:CA	44:RA:383:ALA:HB2	2.25	0.65
45:RB:45:GLU:O	45:RB:46:ARG:HD3	1.97	0.65
45:RF:161:ASP:OD2	45:RF:162:ARG:NH2	2.29	0.65
45:RF:257:LEU:HB3	45:RF:266:PHE:CZ	2.31	0.65
45:RH:132:GLY:HA3	45:RH:163:ILE:CG2	2.27	0.65
44:RK:104:ALA:HB2	44:RK:413:MET:HE2	1.78	0.65
45:RL:4:ILE:HG22	45:RL:132:GLY:N	2.12	0.65
45:RL:7:ILE:HB	45:RL:135:ILE:CD1	2.25	0.65
45:RL:86:ARG:NH1	45:SL:281:TYR:HB2	2.12	0.65
44:RM:138:PHE:CD2	44:RM:169:PHE:HB2	2.32	0.65
45:RN:232:ALA:HB1	45:RN:268:ILE:CD1	2.27	0.65
44:SC:207:GLU:HA	44:SC:210:TYR:HD2	1.59	0.65
44:SC:231:ILE:O	44:SC:235:ILE:HG12	1.96	0.65
44:SC:377:MET:HE1	44:SC:379:SER:CB	2.26	0.65
45:SD:370:ASN:OD1	45:SD:422:TYR:OH	2.14	0.65
45:SD:396:HIS:O	45:SD:400:GLY:N	2.30	0.65
44:SE:9:VAL:O	44:SE:13:GLY:HA3	1.97	0.65
45:SF:68:LEU:HB2	45:SF:143:THR:OG1	1.96	0.65
44:SG:64:ARG:NH1	44:SG:128:ASN:OD1	2.30	0.65
44:SI:271:SER:O	44:SI:377:MET:HG3	1.97	0.65
44:SM:210:TYR:HE1	44:SM:227:LEU:HD11	1.62	0.65
44:TA:2:ARG:O	44:TA:51:THR:HA	1.96	0.65
44:TA:24:PHE:HE1	44:TA:236:SER:HB2	1.62	0.65
45:TB:267:MET:CE	45:TB:371:SER:HB3	2.26	0.65
44:TC:87:PHE:CB	44:TC:92:LEU:HD11	2.23	0.65
44:TC:340:THR:O	44:TC:341:ILE:HD13	1.96	0.65
45:TD:329:GLN:O	45:TD:333:VAL:HG23	1.97	0.65
44:TE:209:ILE:HG12	44:TE:302:MET:CE	2.26	0.65
44:TE:223:THR:O	44:TE:226:ASN:N	2.29	0.65
44:TE:247:ALA:HB2	44:TE:357:TYR:OH	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:332:ILE:HD12	44:TE:351:PHE:CD2	2.32	0.65
45:TF:2:ARG:NE	45:TF:240:LEU:HD11	2.10	0.65
45:TH:55:THR:HG23	45:UH:284:LEU:H	1.60	0.65
45:TH:379:LYS:O	45:TH:383:GLU:N	2.26	0.65
45:TJ:207:LEU:HB3	45:TJ:225:LEU:CD2	2.20	0.65
44:UA:226:ASN:ND2	44:UA:367:ASP:OD2	2.29	0.65
44:UA:254:GLU:OE2	44:UA:352:LYS:HE2	1.97	0.65
45:UB:60:VAL:HG21	45:UB:86:ARG:CG	2.27	0.65
44:UC:213:CYS:HA	44:UC:217:LEU:HB2	1.79	0.65
45:UD:139:LEU:HB2	45:UD:169:VAL:O	1.97	0.65
45:UF:234:SER:O	45:UF:238:CYS:N	2.30	0.65
45:UH:66:MET:SD	45:UH:116:VAL:HG21	2.37	0.65
45:UJ:44:LEU:O	45:UJ:47:ILE:HG12	1.96	0.65
44:UK:169:PHE:CD1	44:UK:202:VAL:HG21	2.32	0.65
44:UK:268:MET:HB2	44:UK:379:SER:O	1.96	0.65
45:UN:19:LYS:NZ	45:UN:227:HIS:HA	2.11	0.65
45:UN:182:PRO:O	45:UN:186:THR:HB	1.97	0.65
45:UN:238:CYS:HA	45:UN:241:ARG:NH1	2.12	0.65
44:VA:286:LEU:O	44:VA:373:ARG:NE	2.27	0.65
44:VC:175:PRO:HG2	44:VC:304:LYS:CG	2.27	0.65
45:VD:190:HIS:CE1	45:VD:411:ALA:HA	2.32	0.65
44:VG:296:PHE:HE2	44:VG:335:ILE:HG21	1.60	0.65
45:VH:270:PHE:O	45:VH:298:ASN:ND2	2.22	0.65
45:VN:199:CYS:HB3	45:VN:265:PHE:HE1	1.61	0.65
44:WA:1:MET:SD	45:WD:70:PRO:HG2	2.37	0.65
44:WA:184:PRO:O	44:WA:188:ILE:HG12	1.97	0.65
45:WB:240:LEU:HD12	45:WB:249:ASP:CA	2.26	0.65
44:WC:211:ASP:HB3	44:WC:215:ARG:HH2	1.60	0.65
44:WC:214:ARG:O	44:WC:218:ASP:HA	1.97	0.65
45:WD:182:PRO:O	45:WD:186:THR:HG23	1.96	0.65
44:WK:222:PRO:HG2	45:WL:324:LYS:CD	2.26	0.65
44:WM:3:GLU:OE2	44:WM:130:THR:HG22	1.97	0.65
44:WM:298:PRO:O	44:WM:301:MET:HE2	1.97	0.65
45:WN:67:ASP:OD1	45:WN:68:LEU:N	2.30	0.65
3:0B:84:ARG:NH2	44:JG:80:THR:HG23	2.11	0.65
5:0D:167:ILE:HA	44:EC:80:THR:HB	1.78	0.65
23:1M:288:LEU:O	40:6F:55:THR:HB	1.97	0.65
26:2R:447:GLN:OE1	44:EG:46:ASP:HB2	1.97	0.65
32:3I:221:TRP:CZ3	45:GL:291:GLN:HG2	2.31	0.65
22:3L:42:LYS:HZ2	45:BB:42:LEU:CD1	2.08	0.65
16:3X:87:ASP:OD2	35:6R:53:LEU:CD2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:4H:221:ASN:ND2	45:ML:41:ASP:OD1	2.30	0.65
39:5K:25:VAL:HG22	39:5K:28:LYS:HZ3	1.62	0.65
35:5R:430:LEU:HD13	35:5R:503:PHE:HE1	1.62	0.65
41:6G:123:LEU:O	41:6G:127:ILE:HG12	1.96	0.65
42:8L:305:UNK:O	42:8L:309:UNK:N	2.29	0.65
44:AA:198:THR:HG22	44:AA:200:VAL:H	1.61	0.65
44:AC:68:LEU:HD21	44:AC:118:CYS:CB	2.26	0.65
45:AD:61:PRO:HD2	45:AD:84:LEU:O	1.97	0.65
45:AD:173:PRO:CG	45:AD:380:ARG:HD3	2.26	0.65
45:AD:420:SER:O	45:AD:423:GLN:HG3	1.95	0.65
44:AE:259:LEU:HD11	44:AE:316:SER:HB2	1.78	0.65
44:AG:209:ILE:O	44:AG:212:ILE:HG22	1.96	0.65
45:AL:178:THR:N	45:AL:181:GLU:OE2	2.28	0.65
44:AM:121:ARG:NH1	44:AM:124:LYS:HD2	2.11	0.65
44:BC:344:VAL:HG11	44:BC:346:TRP:CE2	2.32	0.65
45:BD:3:GLU:OE2	45:BD:127:CYS:HB2	1.97	0.65
45:BD:161:ASP:OD1	45:BD:162:ARG:HG2	1.97	0.65
45:BF:7:ILE:HB	45:BF:135:ILE:CD1	2.25	0.65
44:BG:183:GLU:CG	44:BG:184:PRO:HD3	2.26	0.65
45:BH:208:TYR:CE1	45:BH:225:LEU:HD11	2.32	0.65
44:BI:183:GLU:N	44:BI:184:PRO:HD2	2.11	0.65
44:BM:408:TYR:O	44:BM:413:MET:HB3	1.97	0.65
45:BN:345:ILE:O	45:BN:345:ILE:HG23	1.96	0.65
44:CA:244:PHE:CZ	44:CA:358:GLN:HB2	2.32	0.65
45:CB:224:ASP:O	45:CB:228:LEU:HG	1.97	0.65
45:CF:255:VAL:HG22	44:CG:407:TRP:HZ3	1.61	0.65
44:CI:7:ILE:HG21	44:CI:153:LEU:HD21	1.78	0.65
44:CI:271:SER:OG	44:CI:377:MET:SD	2.53	0.65
45:CJ:372:THR:HA	45:CJ:422:TYR:CZ	2.32	0.65
45:CJ:396:HIS:HA	45:CJ:399:THR:CG2	2.26	0.65
45:CL:9:GLY:HA2	45:CL:66:MET:O	1.97	0.65
45:CL:204:ASN:ND2	48:CL:501:GDP:O2'	2.29	0.65
45:CL:217:LEU:HD11	45:CL:220:PRO:CA	2.27	0.65
45:CL:273:LEU:H	45:CL:292:GLN:HE22	1.44	0.65
44:CM:75:ILE:O	44:CM:79:ARG:HG3	1.96	0.65
44:CM:116:ASP:OD1	44:CM:117:LEU:HD12	1.96	0.65
45:DB:4:ILE:HD13	45:DB:250:LEU:CD1	2.26	0.65
45:DB:314:SER:HA	45:DB:350:LYS:O	1.97	0.65
44:DC:258:ASN:CG	45:DD:179:VAL:HG22	2.18	0.65
44:DC:414:GLU:HB2	44:DC:417:GLU:CG	2.26	0.65
44:DE:28:HIS:HE1	44:DE:48:ALA:HB1	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:58:ARG:HD3	45:EF:280:GLN:OE1	1.97	0.65
45:DF:100:ASN:O	45:DF:103:LYS:N	2.30	0.65
45:DF:113:ILE:O	45:DF:116:VAL:HG12	1.97	0.65
45:DH:69:GLU:OE2	45:DH:72:THR:HG23	1.97	0.65
45:DH:97:ALA:CB	45:DH:143:THR:HB	2.27	0.65
45:DH:216:LYS:HD3	45:DH:275:SER:CB	2.27	0.65
44:DI:7:ILE:HD12	44:DI:66:VAL:HG21	1.78	0.65
44:DI:64:ARG:HH11	44:DI:64:ARG:HG3	1.61	0.65
44:DI:328:VAL:HA	44:DI:331:SER:HB2	1.79	0.65
45:DJ:54:ALA:HB1	45:EJ:282:ARG:O	1.96	0.65
45:DL:334:GLN:NE2	45:DL:348:ASN:OD1	2.30	0.65
44:DM:26:LEU:HG	44:DM:361:THR:HG21	1.77	0.65
44:DM:105:ARG:O	44:DM:110:ILE:HG12	1.97	0.65
44:DM:362:VAL:HB	44:DM:370:LYS:HB3	1.79	0.65
44:EA:317:MET:HB3	44:EA:377:MET:HG3	1.79	0.65
45:EB:19:LYS:HD2	45:EB:227:HIS:ND1	2.13	0.65
44:EC:268:MET:HB2	44:EC:379:SER:C	2.18	0.65
44:EE:106:GLY:O	44:EE:149:LEU:HD22	1.96	0.65
44:EE:115:VAL:HG23	44:EE:153:LEU:HD23	1.79	0.65
45:EF:104:GLY:O	45:EF:109:GLY:HA3	1.96	0.65
44:EI:363:VAL:CG2	44:EI:364:PRO:HD2	2.27	0.65
44:EK:268:MET:HB2	44:EK:380:ASN:HA	1.77	0.65
45:EL:86:ARG:NH1	45:FL:281:TYR:HB2	2.11	0.65
45:EN:392:LYS:O	45:EN:395:LEU:HB2	1.97	0.65
44:FA:242:LEU:HD11	44:FA:252:ILE:CG1	2.27	0.65
44:FC:174:SER:HB3	44:FC:207:GLU:OE1	1.97	0.65
45:FF:61:PRO:HD2	45:FF:84:LEU:O	1.97	0.65
44:FG:260:VAL:HG13	45:FJ:397:TRP:HE1	1.62	0.65
45:FH:4:ILE:HG23	45:FH:132:GLY:O	1.97	0.65
44:FI:32:PRO:HB3	44:FI:83:TYR:CE1	2.32	0.65
45:FJ:24:ILE:O	45:FJ:27:GLU:HG2	1.97	0.65
44:GC:115:VAL:O	44:GC:119:LEU:HD23	1.97	0.65
45:GD:116:VAL:O	45:GD:120:VAL:HG23	1.97	0.65
44:GG:100:ALA:HB1	45:GH:252:LYS:HA	1.79	0.65
45:HB:215:LEU:HA	45:HB:275:SER:CB	2.27	0.65
44:HG:70:LEU:HD13	44:HG:110:ILE:HD12	1.79	0.65
44:HG:132:LEU:HD22	44:HG:164:LYS:HG2	1.79	0.65
45:HH:30:ILE:HD11	45:HH:51:TYR:OH	1.97	0.65
45:HJ:295:ASP:OD1	45:HJ:297:LYS:HG2	1.96	0.65
45:HL:61:PRO:CG	45:HL:84:LEU:HB3	2.27	0.65
45:HL:192:LEU:HG	45:HL:196:ALA:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HL:258:ILE:HG23	45:HL:263:LEU:O	1.96	0.65
45:HN:215:LEU:CD1	45:HN:275:SER:HA	2.18	0.65
45:HN:385:PHE:CZ	45:HN:386:THR:HG22	2.32	0.65
45:IB:425:TYR:HA	45:IB:428:ALA:HB2	1.78	0.65
44:IC:406:HIS:CD2	45:ID:261:PRO:HB3	2.32	0.65
45:ID:164:MET:HE3	45:ID:196:ALA:HA	1.79	0.65
44:IE:229:ARG:HE	44:IE:363:VAL:HG11	1.60	0.65
44:IE:279:GLU:O	44:IE:280:LYS:HD3	1.97	0.65
45:IF:174:LYS:HZ2	45:IF:380:ARG:HH11	1.45	0.65
44:IG:119:LEU:HD11	44:IG:156:ARG:HG3	1.78	0.65
45:IH:141:GLY:HA3	48:IH:502:GDP:O3A	1.97	0.65
45:IJ:69:GLU:OE1	45:IJ:71:GLY:N	2.29	0.65
45:IJ:97:ALA:CB	45:IJ:143:THR:HB	2.27	0.65
45:IJ:169:VAL:O	45:IJ:169:VAL:HG23	1.97	0.65
45:IJ:286:VAL:HA	45:IJ:363:MET:CE	2.27	0.65
44:IM:11:GLN:HB3	46:IM:501:GTP:O2A	1.97	0.65
44:JA:167:LEU:HD22	44:JA:200:VAL:CB	2.26	0.65
45:JB:68:LEU:HD12	45:JB:143:THR:HB	1.78	0.65
45:JB:139:LEU:HD22	45:JB:188:SER:HB3	1.79	0.65
45:JH:30:ILE:HD12	45:JH:51:TYR:CE2	2.32	0.65
44:JK:68:LEU:HD12	44:JK:153:LEU:CD1	2.27	0.65
45:JL:20:PHE:HA	45:JL:230:SER:OG	1.96	0.65
44:KE:71:GLU:OE2	44:KE:73:THR:OG1	2.09	0.65
45:KF:15:GLN:HA	45:KF:18:ALA:HB2	1.79	0.65
45:KJ:171:PRO:HG2	45:KJ:181:GLU:HG3	1.79	0.65
44:KM:273:ALA:O	44:KM:374:ALA:HB1	1.97	0.65
45:LB:83:GLN:O	45:MB:281:TYR:OH	2.14	0.65
45:LB:173:PRO:HG2	45:LB:380:ARG:HD2	1.78	0.65
45:LB:239:CYS:SG	45:LB:247:ASN:HA	2.37	0.65
44:LC:274:PRO:O	44:LC:275:ILE:HD13	1.96	0.65
45:LD:112:LEU:O	45:LD:112:LEU:HD23	1.96	0.65
44:LE:38:SER:O	44:LE:40:LYS:HG3	1.97	0.65
45:LH:286:VAL:N	45:LH:287:PRO:HD2	2.12	0.65
45:LL:86:ARG:HG3	45:ML:281:TYR:CD2	2.29	0.65
45:LL:334:GLN:HG3	45:LL:341:PHE:CD2	2.31	0.65
44:LM:54:SER:HB3	44:LM:64:ARG:NH2	2.10	0.65
44:MA:195:LEU:O	44:MA:266:HIS:NE2	2.28	0.65
45:MB:112:LEU:O	45:MB:112:LEU:HD23	1.97	0.65
44:MC:404:PHE:HE2	45:MD:345:ILE:HD12	1.62	0.65
44:ME:178:SER:OG	45:MF:347:ASN:HB3	1.97	0.65
44:ME:216:ASN:HB3	44:ME:275:ILE:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:174:SER:HB2	44:MG:177:VAL:O	1.97	0.65
45:MH:302:ALA:HB3	45:MH:377:MET:CE	2.26	0.65
45:MJ:31:ASP:OD2	45:MJ:37:HIS:ND1	2.29	0.65
44:MK:325:PRO:HB2	45:MN:208:TYR:OH	1.97	0.65
45:ML:86:ARG:O	45:ML:88:ASP:N	2.23	0.65
45:NB:345:ILE:HG23	45:NB:348:ASN:HD22	1.61	0.65
44:NC:161:TYR:HB3	44:NC:164:LYS:CE	2.27	0.65
44:NC:172:TYR:HB3	44:NC:173:PRO:HD2	1.79	0.65
44:NC:408:TYR:HB3	44:NC:413:MET:CE	2.26	0.65
45:ND:158:GLU:OE1	45:ND:158:GLU:N	2.29	0.65
45:ND:189:VAL:O	45:ND:193:VAL:HG23	1.97	0.65
45:ND:238:CYS:HB2	45:ND:318:ARG:NH1	2.12	0.65
45:NF:113:ILE:HD13	45:NF:150:LEU:HD22	1.79	0.65
45:NF:172:SER:HB2	45:NF:173:PRO:HD2	1.79	0.65
45:NF:324:LYS:NZ	45:NF:328:GLU:OE1	2.29	0.65
44:NG:194:LEU:O	44:NG:198:THR:HG22	1.96	0.65
44:NG:313:MET:HE3	44:NG:347:CYS:HB2	1.79	0.65
44:NG:404:PHE:CE2	45:NH:259:PRO:HA	2.31	0.65
45:NH:58:ARG:HH22	45:OH:281:TYR:HA	1.62	0.65
44:NM:104:ALA:HB1	44:NM:411:GLU:HB2	1.80	0.65
44:NM:210:TYR:CD2	45:NN:324:LYS:HD3	2.31	0.65
44:NM:229:ARG:HH11	44:NM:363:VAL:HG11	1.61	0.65
44:NM:268:MET:CE	44:NM:378:ILE:HG23	2.27	0.65
44:OA:54:SER:H	44:OA:62:VAL:HB	1.62	0.65
45:OB:135:ILE:CD1	45:OB:152:ILE:HD11	2.26	0.65
45:OD:172:SER:OG	45:OD:175:VAL:HG22	1.96	0.65
44:OE:194:LEU:HB2	44:OE:198:THR:OG1	1.97	0.65
45:OF:3:GLU:HG3	45:OF:62:ARG:NH1	2.11	0.65
45:OF:67:ASP:OD2	45:OF:73:MET:HG3	1.97	0.65
44:OG:195:LEU:HD21	44:OG:264:ARG:CZ	2.27	0.65
44:OK:178:SER:OG	45:OL:347:ASN:ND2	2.30	0.65
45:PD:100:ASN:ND2	45:PD:401:GLU:OE1	2.30	0.65
44:PE:208:ALA:O	44:PE:212:ILE:N	2.23	0.65
44:PG:6:SER:CA	44:PG:136:LEU:HB2	2.22	0.65
44:PG:186:ASN:OD1	44:PG:187:SER:N	2.30	0.65
44:PI:87:PHE:HB3	44:PI:91:GLN:HE21	1.62	0.65
44:PI:261:PRO:HG3	45:PL:394:PHE:HE1	1.62	0.65
45:PL:302:ALA:HB3	45:PL:377:MET:CE	2.27	0.65
45:PN:287:PRO:HA	45:PN:290:THR:HG22	1.77	0.65
44:QC:385:ALA:HA	44:QC:388:PHE:CD2	2.32	0.65
45:QD:253:LEU:O	45:QD:257:LEU:HD13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:73:MET:O	45:QF:76:VAL:HG12	1.97	0.65
44:QG:13:GLY:HA2	44:QG:16:VAL:HG22	1.77	0.65
44:QG:257:THR:HG22	45:QH:397:TRP:CZ2	2.32	0.65
45:QH:105:HIS:CE1	45:QH:150:LEU:HD12	2.32	0.65
45:QH:109:GLY:O	45:QH:113:ILE:HB	1.97	0.65
45:QJ:86:ARG:NE	45:QJ:87:PRO:HD2	2.11	0.65
44:QK:175:PRO:HB2	44:QK:176:GLN:OE1	1.97	0.65
45:QL:167:PHE:CZ	45:QL:233:MET:HG3	2.31	0.65
45:QN:375:GLN:OE1	45:QN:423:GLN:HB3	1.97	0.65
44:RA:30:ILE:HA	44:RA:36:MET:SD	2.36	0.65
45:RB:36:TYR:CE1	45:RB:44:LEU:HG	2.32	0.65
44:RE:88:HIS:CG	44:RE:89:PRO:HD2	2.32	0.65
45:RH:403:MET:HG2	45:RH:407:GLU:OE2	1.97	0.65
44:RI:233:GLN:HG3	44:RI:272:TYR:CZ	2.32	0.65
45:RJ:4:ILE:HG22	45:RJ:131:GLN:HB3	1.79	0.65
45:RJ:201:VAL:HG23	45:RJ:301:CYS:SG	2.36	0.65
45:RJ:286:VAL:HG21	44:RK:221:ARG:HH22	1.62	0.65
45:RL:68:LEU:HD13	45:RL:93:GLY:HA3	1.78	0.65
45:SB:246:LEU:HD11	44:SC:224:TYR:HE2	1.62	0.65
44:SC:195:LEU:HD12	44:SC:267:PHE:HE1	1.61	0.65
45:SH:4:ILE:HB	45:SH:132:GLY:O	1.96	0.65
45:SH:28:HIS:NE2	45:SH:241:ARG:HD2	2.12	0.65
45:SH:69:GLU:OE2	45:SH:72:THR:HG23	1.97	0.65
45:SH:135:ILE:HD11	45:SH:152:ILE:HD11	1.78	0.65
45:SJ:183:TYR:CE2	45:SJ:394:PHE:HB2	2.31	0.65
45:SL:286:VAL:O	45:SL:290:THR:HG22	1.96	0.65
45:SN:8:GLN:NE2	45:SN:14:ASN:HA	2.11	0.65
44:TA:174:SER:OG	44:TA:207:GLU:HB2	1.96	0.65
45:TB:3:GLU:HB2	45:TB:49:VAL:O	1.97	0.65
44:TC:5:ILE:HB	44:TC:135:PHE:CD1	2.32	0.65
44:TE:220:GLU:HB2	44:TE:221:ARG:NH1	2.12	0.65
44:TE:238:LEU:O	44:TE:238:LEU:HD23	1.96	0.65
44:TE:292:THR:HG21	44:TE:331:SER:CB	2.26	0.65
45:TH:86:ARG:HD2	45:TH:86:ARG:O	1.97	0.65
45:TH:116:VAL:O	45:TH:120:VAL:HG13	1.97	0.65
45:TH:412:GLU:HA	45:TH:415:MET:HE2	1.77	0.65
45:TL:11:GLN:N	48:TL:501:GDP:O3B	2.30	0.65
45:TN:67:ASP:O	45:TN:92:PHE:HA	1.97	0.65
45:UB:1:MET:SD	44:UC:72:PRO:HG2	2.36	0.65
44:UE:118:CYS:O	44:UE:122:ILE:HG12	1.96	0.65
44:UE:345:ASP:OD2	44:UE:438:GLU:HA	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:331:LEU:CD2	44:UG:176:GLN:HG3	2.27	0.65
45:UH:325:GLU:HB2	45:UH:328:GLU:HG2	1.78	0.65
44:UI:326:LYS:HG2	45:UJ:220:PRO:CD	2.27	0.65
45:UL:322:SER:OG	44:UM:222:PRO:O	2.15	0.65
45:UN:9:GLY:HA3	45:UN:147:MET:HE1	1.79	0.65
45:UN:12:CYS:O	45:UN:16:ILE:N	2.29	0.65
45:VB:17:GLY:HA2	45:VB:20:PHE:HB3	1.77	0.65
45:VB:313:ALA:O	45:VB:350:LYS:N	2.30	0.65
45:VF:49:VAL:HG21	45:VF:241:ARG:HG3	1.79	0.65
45:VF:60:VAL:CG2	45:VF:86:ARG:HG3	2.26	0.65
44:VG:100:ALA:HB1	45:VH:255:VAL:HG21	1.78	0.65
44:VG:181:VAL:HG13	45:VH:350:LYS:HB2	1.78	0.65
45:VH:6:HIS:CE1	45:VH:136:THR:HG23	2.31	0.65
44:VI:246:GLY:HA2	44:VI:357:TYR:HE2	1.61	0.65
45:VJ:114:ASP:OD1	45:VJ:115:SER:N	2.30	0.65
44:VK:222:PRO:HG2	45:VL:324:LYS:HD3	1.78	0.65
44:VK:278:ALA:N	44:VK:369:ALA:HB2	2.11	0.65
44:VM:119:LEU:HA	44:VM:122:ILE:CG1	2.26	0.65
44:VM:310:GLY:O	44:VM:311:LYS:HD3	1.97	0.65
45:VN:62:ARG:HG3	45:VN:62:ARG:HH11	1.61	0.65
45:VN:260:PHE:HB3	45:VN:261:PRO:HD2	1.78	0.65
45:VN:313:ALA:HB3	45:VN:349:ILE:HG12	1.79	0.65
45:WH:304:ASP:HB3	45:WH:307:HIS:ND1	2.12	0.65
45:WH:314:SER:CB	45:WH:350:LYS:HB3	2.26	0.65
44:WI:210:TYR:CE1	44:WI:227:LEU:HD11	2.32	0.65
44:WM:88:HIS:HB3	44:WM:91:GLN:HG2	1.78	0.65
44:WM:100:ALA:HA	45:WN:252:LYS:HB3	1.78	0.65
44:WM:408:TYR:HB3	44:WM:413:MET:HE2	1.79	0.65
44:WM:408:TYR:HB3	44:WM:413:MET:CE	2.27	0.65
44:WM:422:ARG:HH12	44:WM:426:ALA:HB2	1.60	0.65
45:WN:73:MET:SD	45:WN:92:PHE:HB3	2.36	0.65
1:6H:381:GLN:HB2	44:FK:32:PRO:HG2	1.79	0.64
16:0X:81:ARG:HD2	45:MB:276:ARG:CZ	2.27	0.64
2:1A:124:LEU:HD22	45:AF:279:GLN:OE1	1.96	0.64
17:1B:1:MET:CE	45:LD:359:LYS:HG3	2.27	0.64
5:1D:59:GLY:HA3	44:EG:279:GLU:CD	2.17	0.64
15:1V:82:THR:HG21	45:LJ:403:MET:HA	1.79	0.64
27:1W:176:GLU:OE2	45:LD:217:LEU:HB2	1.98	0.64
22:2L:870:ARG:CD	45:CJ:357:PRO:HG2	2.26	0.64
24:2O:214:ILE:HG13	41:6G:85:PRO:HB2	1.79	0.64
27:2W:248:GLN:CD	35:6R:17:PHE:CZ	2.68	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5C:126:ILE:HD12	45:NL:228:LEU:CD2	2.27	0.64
37:5C:150:PHE:CZ	44:NK:26:LEU:HD11	2.31	0.64
38:5E:111:ASN:HB3	45:NB:44:LEU:CD1	2.25	0.64
11:5Q:7:GLN:OE1	11:5Q:71:ILE:HG23	1.97	0.64
35:5R:58:ARG:O	35:5R:59:MET:HG3	1.97	0.64
35:5R:145:ILE:HA	45:AL:78:ALA:O	1.97	0.64
35:5R:544:SER:HB3	35:5R:547:GLU:CB	2.27	0.64
35:5R:565:ASP:OD1	35:5R:567:ASN:ND2	2.30	0.64
41:6G:174:GLN:OE1	41:6G:177:ARG:NE	2.30	0.64
35:6R:80:ARG:NH1	44:MM:38:SER:CA	2.35	0.64
35:7R:151:PRO:HA	35:7R:158:ASP:O	1.97	0.64
44:AA:51:THR:HG23	44:AA:52:PHE:CD1	2.32	0.64
45:AB:52:ASN:ND2	45:AB:62:ARG:HB3	2.12	0.64
44:AG:222:PRO:CG	45:AH:324:LYS:HD3	2.27	0.64
45:AH:6:HIS:HD2	45:AH:134:GLN:HE21	1.45	0.64
45:AH:317:PHE:CE2	45:AH:326:VAL:HG13	2.32	0.64
44:AI:11:GLN:CG	44:AI:74:VAL:HG11	2.26	0.64
44:BA:188:ILE:HG23	44:BA:425:LEU:CD1	2.26	0.64
44:BC:141:VAL:HG11	44:BC:172:TYR:HD2	1.61	0.64
45:BH:170:VAL:HG13	45:BH:171:PRO:HD2	1.79	0.64
44:BI:137:VAL:O	44:BI:168:GLY:HA2	1.97	0.64
44:BK:212:ILE:HD11	44:BK:300:ASN:HA	1.79	0.64
44:CA:89:PRO:HD2	44:DA:280:LYS:CE	2.27	0.64
45:CB:135:ILE:HG13	45:CB:152:ILE:CD1	2.27	0.64
45:CB:164:MET:O	45:CB:197:ASP:HB2	1.97	0.64
45:CD:3:GLU:OE1	45:CD:3:GLU:N	2.30	0.64
45:CD:208:TYR:CE1	45:CD:225:LEU:HD11	2.32	0.64
45:CF:183:TYR:O	45:CF:186:THR:HG22	1.97	0.64
44:CG:7:ILE:HG21	44:CG:153:LEU:HD21	1.78	0.64
44:CG:259:LEU:HD11	44:CG:378:ILE:HG23	1.79	0.64
45:CJ:112:LEU:O	45:CJ:112:LEU:HD23	1.97	0.64
44:CM:108:TYR:CE2	44:CM:413:MET:HG2	2.31	0.64
44:CM:209:ILE:O	44:CM:212:ILE:N	2.30	0.64
45:DB:87:PRO:HA	45:DB:90:PHE:HD2	1.62	0.64
45:DB:113:ILE:HG13	45:DB:154:LYS:HE3	1.80	0.64
44:DC:141:VAL:HG11	44:DC:172:TYR:HD1	1.62	0.64
44:DE:79:ARG:HH11	44:DE:80:THR:HG23	1.62	0.64
44:DE:292:THR:HG21	44:DE:331:SER:CB	2.26	0.64
45:DH:116:VAL:O	45:DH:120:VAL:HG23	1.97	0.64
44:DI:205:ASP:OD1	44:DI:303:ALA:HA	1.97	0.64
44:DI:212:ILE:HD12	44:DI:300:ASN:ND2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:19:LYS:O	45:DL:23:VAL:N	2.25	0.64
45:DL:246:LEU:CD2	46:DM:501:GTP:H5''	2.26	0.64
45:DL:309:ARG:CZ	45:DL:342:VAL:HG22	2.27	0.64
44:DM:88:HIS:ND1	44:DM:89:PRO:HD2	2.11	0.64
44:DM:132:LEU:HD11	44:DM:135:PHE:CE1	2.26	0.64
44:DM:307:PRO:HG2	44:DM:308:ARG:HD3	1.77	0.64
44:EA:39:ASP:O	44:EA:41:THR:HG23	1.97	0.64
44:EA:169:PHE:HB3	44:EA:204:LEU:HD11	1.77	0.64
45:EB:309:ARG:HB3	45:EB:342:VAL:N	2.12	0.64
44:EE:377:MET:HE2	44:EE:379:SER:HB3	1.78	0.64
44:EG:247:ALA:HB3	44:EG:355:ILE:HD11	1.79	0.64
45:EJ:62:ARG:NH1	45:EJ:127:CYS:HB3	2.12	0.64
45:EJ:270:PHE:O	45:EJ:298:ASN:ND2	2.22	0.64
44:EK:92:LEU:HD23	44:EK:92:LEU:H	1.62	0.64
45:EL:130:LEU:HD21	45:EL:133:PHE:CZ	2.32	0.64
45:EN:28:HIS:HD2	45:EN:43:GLN:OE1	1.80	0.64
45:EN:103:LYS:N	45:EN:401:GLU:OE1	2.31	0.64
44:FA:103:PHE:HB2	44:FA:186:ASN:CB	2.27	0.64
44:FC:11:GLN:CA	44:FC:14:ILE:HD12	2.23	0.64
44:FI:221:ARG:HH12	45:FJ:324:LYS:HB3	1.61	0.64
45:FJ:32:PRO:HG3	45:FJ:81:PHE:HE1	1.61	0.64
44:FK:11:GLN:OE1	45:FL:246:LEU:HA	1.97	0.64
44:FK:26:LEU:CD2	44:FK:363:VAL:HA	2.27	0.64
45:FN:9:GLY:O	45:FN:13:GLY:HA3	1.97	0.64
44:GA:101:ASN:HA	44:GA:144:GLY:CA	2.24	0.64
44:GE:141:VAL:HG11	44:GE:172:TYR:CE1	2.32	0.64
45:GF:152:ILE:HG23	45:GF:156:ARG:HH12	1.60	0.64
44:GG:60:LYS:NZ	44:GG:86:LEU:HA	2.12	0.64
45:GJ:232:ALA:HB1	45:GJ:268:ILE:HD12	1.78	0.64
45:GJ:376:GLU:CG	45:GJ:380:ARG:HH21	2.10	0.64
44:GM:217:LEU:HD22	44:GM:367:ASP:HB3	1.79	0.64
45:GN:310:TYR:N	45:GN:340:TYR:O	2.30	0.64
44:HA:254:GLU:CG	45:HD:98:GLY:HA2	2.27	0.64
44:HA:312:TYR:O	44:HA:344:VAL:N	2.21	0.64
45:HB:52:ASN:HB2	45:HB:60:VAL:HG13	1.77	0.64
45:HB:229:VAL:HG12	45:HB:233:MET:CE	2.27	0.64
45:HB:238:CYS:HA	45:HB:241:ARG:NH2	2.12	0.64
45:HD:69:GLU:OE2	45:HD:72:THR:HG23	1.98	0.64
45:HD:217:LEU:HD12	45:HD:217:LEU:O	1.97	0.64
45:HF:51:TYR:HE1	45:HF:61:PRO:HG3	1.60	0.64
44:HI:320:ARG:CZ	44:HI:360:PRO:HG3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:404:PHE:CE2	45:HJ:259:PRO:HA	2.33	0.64
44:HK:68:LEU:HD21	44:HK:118:CYS:HB2	1.79	0.64
44:HK:284:GLU:HG3	44:HK:286:LEU:CD2	2.27	0.64
44:IA:183:GLU:CG	44:IA:184:PRO:HD3	2.26	0.64
44:IA:268:MET:HE3	44:IA:270:SER:HB3	1.80	0.64
44:IA:268:MET:HB2	44:IA:379:SER:O	1.96	0.64
44:IA:272:TYR:HD1	44:IA:376:CYS:HB2	1.61	0.64
44:IG:203:MET:HA	44:IG:203:MET:CE	2.28	0.64
44:IK:60:LYS:NZ	44:IK:85:GLN:O	2.27	0.64
44:IM:268:MET:HB2	44:IM:379:SER:O	1.97	0.64
44:JA:219:ILE:O	44:JA:222:PRO:HD3	1.96	0.64
45:JB:3:GLU:HB2	45:JB:62:ARG:NH1	2.10	0.64
45:JD:274:THR:HG21	45:JD:282:ARG:NE	2.12	0.64
45:JF:167:PHE:CE1	45:JF:233:MET:HG2	2.32	0.64
44:JG:212:ILE:CD1	44:JG:300:ASN:HA	2.26	0.64
45:JJ:273:LEU:H	45:JJ:292:GLN:HE22	1.46	0.64
44:JK:167:LEU:HG	44:JK:200:VAL:HB	1.78	0.64
44:JM:56:THR:HA	44:KM:285:GLN:OE1	1.97	0.64
44:JM:66:VAL:HG11	44:JM:122:ILE:HD11	1.78	0.64
45:KD:226:ASN:OD1	45:KD:227:HIS:N	2.29	0.64
44:KE:21:TRP:CZ3	44:KE:63:PRO:HB3	2.32	0.64
44:KG:199:ASP:O	44:KG:266:HIS:HB2	1.96	0.64
44:KI:177:VAL:HG23	45:KJ:331:LEU:HD22	1.79	0.64
44:KK:49:PHE:O	44:KK:53:PHE:N	2.30	0.64
45:KL:286:VAL:HG11	45:KL:325:GLU:HG2	1.79	0.64
44:KM:314:ALA:HB3	44:KM:380:ASN:CB	2.26	0.64
44:LE:137:VAL:HG22	44:LE:167:LEU:O	1.97	0.64
45:LN:286:VAL:HA	45:LN:289:LEU:CD1	2.26	0.64
44:MC:174:SER:HB2	44:MC:177:VAL:O	1.96	0.64
45:MD:187:LEU:HD11	45:MD:408:PHE:HE1	1.62	0.64
44:ME:141:VAL:HG12	44:ME:171:ILE:O	1.98	0.64
44:ME:264:ARG:HG3	44:ME:264:ARG:HH11	1.61	0.64
45:MF:229:VAL:O	45:MF:233:MET:HG3	1.97	0.64
45:MH:12:CYS:SG	45:MH:138:SER:HB2	2.37	0.64
44:MI:383:ALA:O	44:MI:386:GLU:HG2	1.97	0.64
44:MK:324:VAL:HG12	44:MK:326:LYS:H	1.60	0.64
45:ML:101:TRP:HE1	45:ML:146:GLY:HA2	1.62	0.64
45:ML:210:ILE:O	45:ML:214:THR:HG22	1.98	0.64
45:ML:313:ALA:HB1	45:ML:367:PHE:CE1	2.31	0.64
45:ML:341:PHE:HD2	45:ML:348:ASN:HD21	1.45	0.64
44:NC:110:ILE:HA	44:NC:113:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ND:286:VAL:CB	45:ND:325:GLU:HG3	2.27	0.64
45:NF:61:PRO:HG3	45:NF:84:LEU:HD23	1.79	0.64
45:NH:372:THR:HG22	45:NH:426:GLN:OE1	1.97	0.64
45:NJ:130:LEU:C	45:NJ:162:ARG:HH22	2.00	0.64
44:NK:110:ILE:HA	44:NK:113:GLU:OE2	1.97	0.64
44:NK:112:LYS:O	44:NK:115:VAL:HG12	1.98	0.64
45:NL:279:GLN:HB2	45:NL:281:TYR:CE2	2.31	0.64
45:NN:313:ALA:O	45:NN:349:ILE:HA	1.97	0.64
44:OA:233:GLN:NE2	44:OA:361:THR:O	2.27	0.64
45:OB:186:THR:HA	45:OB:415:MET:HE1	1.78	0.64
45:OB:394:PHE:O	45:OB:395:LEU:HD23	1.97	0.64
44:OM:217:LEU:HA	44:OM:277:SER:OG	1.97	0.64
45:ON:271:ALA:HB1	45:ON:272:PRO:HA	1.77	0.64
44:PE:320:ARG:NH2	44:PE:359:PRO:O	2.26	0.64
44:PG:210:TYR:CG	45:PH:324:LYS:HD2	2.32	0.64
44:PG:222:PRO:HG2	45:PH:324:LYS:HD3	1.76	0.64
45:PH:103:LYS:N	45:PH:401:GLU:OE1	2.29	0.64
45:PH:156:ARG:HD3	45:PH:195:ASN:O	1.96	0.64
44:PI:229:ARG:NH1	44:PI:363:VAL:HG11	2.12	0.64
45:PL:139:LEU:HD13	45:PL:168:SER:HB3	1.80	0.64
45:PL:341:PHE:HD2	45:PL:348:ASN:HD21	1.45	0.64
44:PM:104:ALA:HB1	44:PM:411:GLU:CB	2.26	0.64
44:PM:216:ASN:HB3	44:PM:275:ILE:O	1.96	0.64
45:PN:287:PRO:HG3	45:PN:329:GLN:NE2	2.12	0.64
44:QA:248:LEU:CD2	44:QA:354:GLY:HA2	2.27	0.64
45:QB:12:CYS:SG	45:QB:169:VAL:HG21	2.37	0.64
44:QE:70:LEU:CD1	44:QE:99:ALA:HB2	2.23	0.64
45:QF:326:VAL:O	45:QF:330:MET:N	2.25	0.64
44:QG:66:VAL:HG23	44:QG:91:GLN:O	1.97	0.64
45:QH:125:GLU:HA	45:QH:125:GLU:OE2	1.96	0.64
44:QK:199:ASP:O	44:QK:266:HIS:HB2	1.97	0.64
45:QL:42:LEU:HA	45:QL:45:GLU:CG	2.19	0.64
44:QM:64:ARG:NH1	44:QM:129:CYS:SG	2.71	0.64
44:QM:210:TYR:CE1	44:QM:227:LEU:HD21	2.32	0.64
44:QM:256:GLN:HE22	45:QN:396:HIS:HE1	1.43	0.64
44:QM:326:LYS:HD3	45:QN:212:PHE:HZ	1.62	0.64
44:RA:88:HIS:HB3	44:RA:91:GLN:CB	2.25	0.64
45:RB:6:HIS:HB2	45:RB:134:GLN:NE2	2.04	0.64
45:RB:60:VAL:HG23	45:RB:61:PRO:HD2	1.79	0.64
45:RB:66:MET:HE3	45:RB:66:MET:HA	1.79	0.64
45:RF:204:ASN:HA	45:RF:207:LEU:HG	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:6:SER:OG	44:RG:65:ALA:HA	1.97	0.64
44:RG:346:TRP:CD1	45:RH:391:ARG:HG3	2.32	0.64
45:RH:324:LYS:HG3	44:RI:210:TYR:CD2	2.32	0.64
44:RI:296:PHE:CE2	44:RI:335:ILE:HG21	2.32	0.64
45:RJ:135:ILE:O	45:RJ:166:THR:HA	1.96	0.64
44:RK:317:MET:CE	44:RK:377:MET:HG3	2.27	0.64
45:RN:9:GLY:O	45:RN:137:HIS:HA	1.97	0.64
45:RN:44:LEU:HA	45:RN:47:ILE:HG23	1.77	0.64
44:SA:88:HIS:ND1	44:SA:90:GLU:HG2	2.12	0.64
44:SA:112:LYS:O	44:SA:115:VAL:HG12	1.96	0.64
45:SB:8:GLN:O	45:SB:66:MET:HG2	1.97	0.64
45:SB:34:GLY:O	45:SB:58:ARG:HA	1.96	0.64
45:SB:172:SER:O	45:SB:380:ARG:NH1	2.30	0.64
44:SC:3:GLU:HG2	44:SC:64:ARG:CZ	2.27	0.64
44:SC:271:SER:HA	44:SC:302:MET:CE	2.27	0.64
44:SG:55:GLU:HG3	44:SG:57:GLY:H	1.62	0.64
44:SG:209:ILE:HG21	44:SG:227:LEU:HB3	1.80	0.64
44:SG:362:VAL:HG11	44:SG:370:LYS:CB	2.27	0.64
45:SH:52:ASN:OD1	45:SH:62:ARG:NH2	2.29	0.64
44:SI:241:SER:OG	44:SI:250:VAL:O	2.14	0.64
44:SI:317:MET:SD	44:SI:332:ILE:HD11	2.37	0.64
44:SM:14:ILE:HG21	44:SM:75:ILE:HD13	1.79	0.64
44:SM:195:LEU:HD11	44:SM:428:LEU:HD13	1.79	0.64
45:TB:1:MET:O	45:TB:2:ARG:HG2	1.97	0.64
45:TB:257:LEU:HD11	45:TB:314:SER:HB2	1.78	0.64
45:TB:268:ILE:CG2	45:TB:368:VAL:HG12	2.27	0.64
44:TC:189:LEU:CD2	44:TC:421:ALA:HB2	2.26	0.64
45:TF:36:TYR:CE1	45:TF:44:LEU:HG	2.32	0.64
44:TI:88:HIS:CD2	44:UI:283:HIS:HB3	2.32	0.64
44:TK:175:PRO:HB3	44:TK:390:ARG:NE	2.12	0.64
45:TL:178:THR:CB	45:TL:181:GLU:HG3	2.16	0.64
45:TL:260:PHE:HB3	45:TL:261:PRO:HD2	1.78	0.64
44:UA:439:THR:HG21	45:UB:390:ARG:HD2	1.77	0.64
45:UB:100:ASN:HD22	45:UB:103:LYS:HB2	1.62	0.64
45:UB:319:GLY:HA3	45:UB:363:MET:HE2	1.77	0.64
44:UC:328:VAL:HG11	44:UC:353:VAL:HG21	1.79	0.64
45:UD:249:ASP:OD1	45:UD:252:LYS:N	2.17	0.64
45:UD:270:PHE:CD1	45:UD:366:THR:HG22	2.32	0.64
44:UE:288:VAL:N	44:UE:373:ARG:HH22	1.95	0.64
44:UE:385:ALA:O	44:UE:389:SER:N	2.30	0.64
45:UF:310:TYR:O	45:UF:342:VAL:HG13	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:342:VAL:HG22	45:UF:348:ASN:HD22	1.61	0.64
44:UG:310:GLY:CA	44:UG:383:ALA:HB2	2.25	0.64
45:UH:310:TYR:N	45:UH:340:TYR:O	2.29	0.64
44:UI:99:ALA:CB	44:UI:145:THR:HB	2.27	0.64
45:UJ:169:VAL:HG22	45:UJ:202:ILE:CB	2.25	0.64
45:UJ:323:THR:HG22	45:UJ:353:ILE:HG13	1.79	0.64
44:UM:141:VAL:HG12	44:UM:171:ILE:O	1.98	0.64
44:UM:315:CYS:O	44:UM:351:PHE:HA	1.96	0.64
44:UM:316:SER:CB	44:UM:352:LYS:HB3	2.27	0.64
45:VF:7:ILE:HB	45:VF:135:ILE:CD1	2.27	0.64
44:VG:139:ASN:ND2	44:VG:146:GLY:O	2.24	0.64
44:VI:119:LEU:HB3	44:VI:123:ARG:NH1	2.12	0.64
44:VI:174:SER:HB2	44:VI:177:VAL:O	1.97	0.64
45:VN:73:MET:O	45:VN:76:VAL:HG12	1.96	0.64
44:WA:213:CYS:HA	44:WA:217:LEU:HB2	1.79	0.64
45:WB:46:ARG:O	45:WB:49:VAL:HG23	1.97	0.64
44:WE:11:GLN:HE22	45:WF:246:LEU:HA	1.62	0.64
44:WI:141:VAL:HG23	44:WI:190:SER:OG	1.96	0.64
44:WI:311:LYS:O	44:WI:381:SER:HB2	1.97	0.64
44:WK:203:MET:HG3	44:WK:384:ILE:HD11	1.79	0.64
44:WM:315:CYS:SG	44:WM:377:MET:HB2	2.37	0.64
45:WN:133:PHE:HB2	45:WN:164:MET:SD	2.35	0.64
1:6H:174:MET:HE2	45:FB:320:ARG:NE	2.09	0.64
10:0N:249:LEU:HB3	45:KN:92:PHE:CE1	2.31	0.64
22:1L:525:LEU:HD13	45:BF:320:ARG:N	2.11	0.64
5:2D:57:THR:CG2	44:EK:219:ILE:HD11	2.27	0.64
5:2D:225:ARG:HH22	35:5R:598:TRP:HB2	1.63	0.64
22:2L:775:ARG:HG2	44:BK:365:GLY:HA2	1.79	0.64
10:2N:1:MET:CE	44:IA:114:ILE:HA	2.27	0.64
26:2R:391:SER:O	45:EH:276:ARG:NH1	1.99	0.64
37:5C:79:LEU:HD21	45:NJ:245:GLN:OE1	1.97	0.64
37:5D:19:ARG:HB2	45:KN:418:LEU:HB2	1.77	0.64
37:5D:108:ARG:CG	44:NM:277:SER:O	2.41	0.64
38:5H:60:TRP:CZ2	45:ON:279:GLN:HA	2.32	0.64
39:5K:37:GLU:OE2	44:JK:419:SER:HA	1.97	0.64
39:5K:67:GLN:OE1	45:NN:339:SER:HB3	1.96	0.64
35:6R:232:ASN:HD21	44:BM:1:MET:CE	2.09	0.64
35:7R:407:LYS:N	45:EB:218:THR:HG21	2.10	0.64
42:8L:380:UNK:O	42:8L:384:UNK:N	2.30	0.64
43:8P:72:UNK:O	43:8P:76:UNK:N	2.30	0.64
44:AG:141:VAL:HG11	44:AG:172:TYR:HE1	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:200:VAL:HG13	44:AG:268:MET:CE	2.26	0.64
45:AH:374:ILE:HD11	45:AH:422:TYR:CE1	2.32	0.64
44:AI:123:ARG:NH2	44:BI:293:ASN:OD1	2.31	0.64
44:AM:247:ALA:HB2	44:AM:357:TYR:OH	1.98	0.64
44:AM:407:TRP:CE3	45:AN:255:VAL:HG22	2.32	0.64
45:AN:67:ASP:OD1	45:AN:68:LEU:N	2.30	0.64
45:AN:86:ARG:CZ	45:BN:278:SER:HA	2.26	0.64
45:BF:16:ILE:HD11	48:BF:502:GDP:N2	2.12	0.64
45:BF:62:ARG:NH1	45:BF:62:ARG:HB2	2.12	0.64
45:BH:389:PHE:O	45:BH:392:LYS:HD3	1.97	0.64
44:BM:31:GLN:HG2	44:BM:32:PRO:HD2	1.76	0.64
44:BM:53:PHE:HE2	44:BM:63:PRO:HG3	1.62	0.64
44:BM:180:ALA:CB	44:BM:183:GLU:HB3	2.25	0.64
45:BN:319:GLY:HA3	45:BN:357:PRO:HG3	1.79	0.64
45:CD:282:ARG:HG2	45:CD:283:ALA:N	2.12	0.64
44:CG:142:GLY:O	44:CG:186:ASN:ND2	2.29	0.64
45:CJ:36:TYR:CE1	45:CJ:44:LEU:HG	2.33	0.64
45:CN:248:SER:HA	45:CN:252:LYS:CE	2.20	0.64
45:DB:153:SER:HA	45:DB:156:ARG:CD	2.27	0.64
44:DC:287:SER:O	44:DC:291:ILE:HG23	1.96	0.64
45:DD:113:ILE:CD1	45:DD:150:LEU:HD22	2.25	0.64
44:DE:175:PRO:HG3	44:DE:390:ARG:HH12	1.61	0.64
45:DL:196:ALA:HB3	45:DL:264:HIS:HE1	1.62	0.64
45:DN:131:GLN:NE2	45:DN:251:ARG:HG2	2.12	0.64
45:EB:52:ASN:OD1	45:EB:62:ARG:NH2	2.30	0.64
44:EC:254:GLU:HG2	45:ED:98:GLY:CA	2.22	0.64
44:EE:321:GLY:HA3	44:EE:373:ARG:NH1	2.11	0.64
45:EF:46:ARG:NH2	44:EG:73:THR:HA	2.09	0.64
44:EG:245:ASP:OD1	44:EG:246:GLY:N	2.30	0.64
44:EG:333:ALA:HA	44:EG:336:LYS:HZ3	1.63	0.64
45:EJ:22:GLU:HG2	45:EJ:81:PHE:CG	2.32	0.64
45:EJ:68:LEU:HD23	45:EJ:97:ALA:CA	2.27	0.64
44:EK:231:ILE:O	44:EK:235:ILE:HG12	1.97	0.64
45:EL:313:ALA:HB3	45:EL:349:ILE:HA	1.80	0.64
44:EM:270:SER:HB3	44:EM:378:ILE:HA	1.78	0.64
45:EN:375:GLN:O	45:EN:379:LYS:HG3	1.98	0.64
44:FA:215:ARG:CZ	44:FA:299:ALA:HB1	2.27	0.64
45:FB:139:LEU:HG	45:FB:145:SER:HB2	1.79	0.64
44:FE:183:GLU:OE1	44:FE:183:GLU:N	2.29	0.64
45:FH:355:ASP:O	45:FH:356:ILE:HD13	1.96	0.64
44:FI:354:GLY:O	44:FI:355:ILE:HD13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FJ:8:GLN:CD	45:FJ:14:ASN:HA	2.17	0.64
45:FJ:32:PRO:HA	45:FJ:84:LEU:HD11	1.79	0.64
45:FJ:286:VAL:HG21	45:FJ:325:GLU:OE1	1.97	0.64
44:FK:394:LYS:NZ	45:FL:346:PRO:HB2	2.12	0.64
45:FN:146:GLY:O	45:FN:149:THR:HG22	1.98	0.64
44:GA:102:ASN:HB3	44:GA:105:ARG:HB2	1.80	0.64
44:GA:104:ALA:HB2	44:GA:413:MET:HE3	1.80	0.64
45:GB:136:THR:HG22	45:GB:167:PHE:HZ	1.62	0.64
44:GC:269:LEU:HD23	44:GC:269:LEU:H	1.62	0.64
45:GF:395:LEU:HG	45:GF:399:THR:CG2	2.27	0.64
44:GG:262:TYR:HB3	44:GG:263:PRO:HD2	1.79	0.64
44:GI:5:ILE:HD12	44:GI:132:LEU:CD1	2.27	0.64
45:GJ:8:GLN:O	45:GJ:66:MET:HG2	1.97	0.64
45:GJ:304:ASP:OD1	45:GJ:306:ARG:HG2	1.97	0.64
44:GK:174:SER:OG	44:GK:207:GLU:HB2	1.97	0.64
44:GK:287:SER:HB3	44:GK:290:GLU:HG2	1.78	0.64
45:GL:200:MET:CE	45:GL:266:PHE:HB2	2.27	0.64
45:GL:267:MET:CE	45:GL:301:CYS:HB2	2.27	0.64
45:GN:206:ALA:O	45:GN:210:ILE:HG13	1.97	0.64
44:HA:184:PRO:O	44:HA:188:ILE:HG12	1.97	0.64
45:HB:270:PHE:HD2	45:HB:273:LEU:HD21	1.62	0.64
45:HD:87:PRO:HD2	45:ID:281:TYR:CD2	2.32	0.64
44:HE:31:GLN:NE2	44:HE:37:PRO:HG3	2.12	0.64
45:HF:288:GLU:O	45:HF:291:GLN:HG3	1.96	0.64
45:HH:20:PHE:CE1	45:HH:24:ILE:HD11	2.31	0.64
45:HH:203:ASP:OD2	45:HH:302:ALA:N	2.27	0.64
45:HJ:42:LEU:HD13	45:HJ:45:GLU:CD	2.17	0.64
45:HN:190:HIS:ND1	45:HN:411:ALA:HA	2.12	0.64
44:IA:276:ILE:CD1	44:IA:281:ALA:HA	2.27	0.64
44:IA:311:LYS:N	44:IA:382:THR:OG1	2.23	0.64
45:IB:87:PRO:HA	45:IB:90:PHE:CD2	2.28	0.64
45:IB:242:PHE:HB3	45:IB:356:ILE:CD1	2.25	0.64
45:IB:423:GLN:NE2	45:IB:427:ASP:OD2	2.28	0.64
44:IC:88:HIS:CD2	45:JD:281:TYR:HB3	2.32	0.64
45:ID:109:GLY:C	45:ID:113:ILE:HG23	2.17	0.64
44:IG:11:GLN:OE1	45:IH:246:LEU:HD23	1.96	0.64
45:IN:200:MET:HG2	45:IN:266:PHE:CB	2.27	0.64
45:JB:16:ILE:HD13	45:JB:226:ASN:OD1	1.97	0.64
44:JC:210:TYR:HE2	45:JD:324:LYS:HA	1.61	0.64
45:JD:3:GLU:OE2	45:JD:127:CYS:HB2	1.98	0.64
45:JD:232:ALA:O	45:JD:236:VAL:HG23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:167:LEU:HD11	44:JE:252:ILE:HD11	1.80	0.64
44:JI:137:VAL:HG13	44:JI:168:GLY:HA2	1.79	0.64
45:JL:178:THR:HB	45:JL:181:GLU:HG3	1.78	0.64
44:JM:88:HIS:CE1	44:JM:90:GLU:HG2	2.31	0.64
45:JN:240:LEU:HD23	45:JN:240:LEU:O	1.98	0.64
45:KB:169:VAL:HG22	45:KB:202:ILE:CG2	2.27	0.64
45:KD:12:CYS:SG	45:KD:138:SER:OG	2.51	0.64
45:KD:257:LEU:O	45:KD:258:ILE:HD13	1.97	0.64
44:KE:250:VAL:HG11	44:KE:318:MET:SD	2.37	0.64
45:KF:59:TYR:O	45:KF:86:ARG:NH2	2.30	0.64
45:KF:61:PRO:HD3	45:KF:86:ARG:NH1	2.12	0.64
45:KH:262:ARG:HD3	45:KH:421:GLU:OE1	1.97	0.64
45:KL:36:TYR:CZ	45:KL:38:GLY:HA3	2.32	0.64
45:KL:117:LEU:HD23	45:KL:117:LEU:O	1.97	0.64
44:KM:265:ILE:HG23	44:KM:432:TYR:CE1	2.32	0.64
44:LE:294:SER:HA	44:LE:297:GLU:HG3	1.78	0.64
45:LF:257:LEU:HD12	45:LF:312:THR:OG1	1.97	0.64
44:LG:119:LEU:O	44:LG:123:ARG:HG2	1.98	0.64
44:LI:277:SER:HB3	44:LI:280:LYS:HG2	1.79	0.64
45:LL:145:SER:OG	45:LL:188:SER:OG	2.14	0.64
44:MA:349:THR:O	45:MD:179:VAL:HG23	1.98	0.64
45:MB:68:LEU:HD11	45:MB:108:GLU:HG2	1.80	0.64
45:MB:168:SER:HB2	45:MB:201:VAL:HG12	1.78	0.64
45:MB:178:THR:HG22	45:MB:180:VAL:H	1.61	0.64
44:MG:264:ARG:HG2	44:MG:264:ARG:HH11	1.62	0.64
45:MJ:58:ARG:NH1	45:MJ:60:VAL:HA	2.12	0.64
45:MJ:130:LEU:HD22	45:MJ:162:ARG:HG2	1.79	0.64
44:MM:223:THR:HA	45:MN:323:THR:HG22	1.78	0.64
44:NA:141:VAL:HG11	44:NA:172:TYR:HD1	1.62	0.64
44:NC:68:LEU:HD21	44:NC:118:CYS:CB	2.25	0.64
44:NC:72:PRO:HG2	45:ND:1:MET:CE	2.27	0.64
44:NE:90:GLU:HG3	44:OE:280:LYS:HD2	1.79	0.64
44:NE:326:LYS:HG3	44:NE:327:ASP:N	2.12	0.64
45:NJ:287:PRO:HA	45:NJ:329:GLN:HE21	1.62	0.64
44:NK:10:GLY:O	44:NK:14:ILE:N	2.22	0.64
44:NM:7:ILE:HA	44:NM:66:VAL:HG12	1.79	0.64
44:NM:53:PHE:CE2	44:NM:63:PRO:HG3	2.32	0.64
45:NN:12:CYS:O	45:NN:16:ILE:HG12	1.98	0.64
44:OA:348:PRO:CG	45:OD:384:GLN:HE21	2.08	0.64
45:OB:17:GLY:HA2	45:OB:20:PHE:HB3	1.78	0.64
45:OB:34:GLY:O	45:OB:58:ARG:HA	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:113:ILE:HD13	45:OB:150:LEU:HG	1.78	0.64
45:OB:324:LYS:O	45:OB:327:ASP:N	2.30	0.64
44:OC:185:TYR:O	44:OC:188:ILE:HG22	1.98	0.64
44:OC:306:ASP:OD2	44:OC:309:HIS:N	2.30	0.64
45:OF:152:ILE:HD12	45:OF:164:MET:CE	2.26	0.64
45:OF:399:THR:HA	45:OF:403:MET:O	1.97	0.64
44:OG:358:GLN:CD	44:OG:359:PRO:HD2	2.17	0.64
45:ON:116:VAL:HG22	45:ON:120:VAL:HG23	1.78	0.64
44:PA:181:VAL:CG2	45:PB:256:ASN:HA	2.27	0.64
45:PD:239:CYS:HA	45:PD:354:CYS:SG	2.37	0.64
44:PE:200:VAL:HG13	44:PE:268:MET:HE2	1.79	0.64
44:PE:404:PHE:CE2	45:PF:345:ILE:HD11	2.32	0.64
45:PF:3:GLU:OE2	45:PF:127:CYS:HB2	1.97	0.64
45:PF:21:TRP:HE1	45:PF:61:PRO:CG	2.10	0.64
45:PF:86:ARG:HE	45:PF:87:PRO:CD	2.09	0.64
44:PI:326:LYS:HD3	45:PL:212:PHE:HZ	1.61	0.64
45:PJ:2:ARG:HB2	45:PJ:131:GLN:HB2	1.78	0.64
45:PJ:7:ILE:HG12	45:PJ:64:ILE:CB	2.28	0.64
44:PM:420:GLU:HA	44:PM:423:GLU:HG2	1.79	0.64
45:PN:212:PHE:O	45:PN:216:LYS:HA	1.97	0.64
45:PN:253:LEU:O	45:PN:257:LEU:HD13	1.96	0.64
44:QA:67:PHE:HB2	44:QA:92:LEU:HG	1.78	0.64
44:QC:209:ILE:CD1	44:QC:227:LEU:HD22	2.27	0.64
44:QC:271:SER:OG	44:QC:301:MET:HA	1.97	0.64
45:QD:51:TYR:HB3	45:QD:59:TYR:HB3	1.80	0.64
44:QE:86:LEU:HD23	44:QE:87:PHE:CE1	2.32	0.64
45:QF:324:LYS:HD2	44:QG:210:TYR:CG	2.33	0.64
44:QI:115:VAL:HG23	44:QI:153:LEU:HD23	1.78	0.64
44:QI:239:THR:HB	44:QI:243:ARG:HE	1.62	0.64
44:QM:3:GLU:O	44:QM:132:LEU:HA	1.97	0.64
45:QN:97:ALA:CB	45:QN:143:THR:HB	2.28	0.64
44:RA:248:LEU:HD22	44:RA:354:GLY:CA	2.25	0.64
44:RC:173:PRO:CG	44:RC:391:LEU:HD21	2.24	0.64
44:RC:287:SER:O	44:RC:291:ILE:HG23	1.97	0.64
44:RG:141:VAL:HG11	44:RG:172:TYR:HD1	1.61	0.64
44:RG:240:ALA:HB1	44:RG:358:GLN:HE21	1.61	0.64
44:SA:311:LYS:HG3	44:SA:342:GLN:HG3	1.80	0.64
44:SC:387:VAL:HG12	44:SC:390:ARG:NH1	2.11	0.64
45:SD:313:ALA:HA	45:SD:369:GLY:CA	2.27	0.64
44:SG:11:GLN:HB3	46:SG:501:GTP:PA	2.37	0.64
44:SG:200:VAL:HG13	44:SG:268:MET:HE1	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:145:THR:HG22	46:SI:501:GTP:O2G	1.96	0.64
45:SJ:331:LEU:HD22	44:SK:177:VAL:HG22	1.79	0.64
45:SJ:374:ILE:HG12	45:SJ:422:TYR:OH	1.97	0.64
45:SL:164:MET:HB3	45:SL:197:ASP:H	1.63	0.64
45:SN:150:LEU:HD21	45:SN:154:LYS:CE	2.27	0.64
45:SN:165:GLU:OE2	45:SN:250:LEU:HB3	1.97	0.64
45:SN:268:ILE:HG12	45:SN:300:MET:CE	2.26	0.64
45:SN:304:ASP:HB3	45:SN:307:HIS:CG	2.33	0.64
44:TA:143:GLY:HA3	46:TA:501:GTP:O2B	1.97	0.64
45:TB:4:ILE:HD11	45:TB:50:TYR:OH	1.96	0.64
45:TB:322:SER:OG	45:TB:325:GLU:HB3	1.96	0.64
44:TC:175:PRO:HD2	44:TC:207:GLU:OE1	1.97	0.64
45:TD:164:MET:HB3	45:TD:197:ASP:HB2	1.78	0.64
44:TE:180:ALA:HB3	44:TE:183:GLU:OE1	1.97	0.64
45:TF:329:GLN:O	45:TF:333:VAL:HG23	1.96	0.64
44:TI:104:ALA:HB1	44:TI:411:GLU:HB2	1.77	0.64
44:TI:135:PHE:CB	44:TI:166:LYS:HG2	2.26	0.64
44:TI:254:GLU:HG2	45:TJ:98:GLY:HA2	1.79	0.64
44:TI:324:VAL:HG11	45:TJ:220:PRO:O	1.98	0.64
44:TM:134:GLY:HA3	44:TM:165:SER:OG	1.97	0.64
44:UA:140:SER:HB2	46:UA:501:GTP:H1'	1.79	0.64
44:UA:213:CYS:O	44:UA:217:LEU:HB2	1.97	0.64
44:UA:371:VAL:CG1	44:UA:374:ALA:HB2	2.27	0.64
45:UB:242:PHE:HB3	45:UB:356:ILE:CG1	2.27	0.64
44:UE:26:LEU:HD21	44:UE:362:VAL:O	1.95	0.64
44:UG:118:CYS:O	44:UG:122:ILE:HG12	1.98	0.64
44:UG:172:TYR:HB3	44:UG:173:PRO:CD	2.26	0.64
45:UH:377:MET:CA	45:UH:380:ARG:HG2	2.27	0.64
45:UJ:131:GLN:O	45:UJ:163:ILE:HG12	1.96	0.64
45:UJ:239:CYS:SG	45:UJ:248:SER:N	2.64	0.64
45:UL:54:ALA:HB1	45:VL:281:TYR:O	1.97	0.64
45:UL:187:LEU:HD11	45:UL:408:PHE:CE1	2.32	0.64
44:UM:213:CYS:HB3	44:UM:217:LEU:HB2	1.78	0.64
44:UM:251:ASP:HB2	44:UM:254:GLU:OE1	1.98	0.64
44:UM:265:ILE:HG12	44:UM:432:TYR:CE1	2.32	0.64
45:UN:9:GLY:HA3	45:UN:147:MET:CE	2.27	0.64
44:VA:315:CYS:SG	44:VA:379:SER:HB3	2.37	0.64
44:VA:317:MET:O	44:VA:353:VAL:HA	1.96	0.64
45:VB:385:PHE:CE2	45:VB:412:GLU:HB2	2.31	0.64
44:VC:434:GLU:O	44:VC:437:ILE:HG12	1.96	0.64
45:VD:186:THR:HG21	45:VD:385:PHE:CD1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:318:MET:HA	44:VE:318:MET:CE	2.27	0.64
44:VG:217:LEU:HD21	44:VG:275:ILE:CG2	2.27	0.64
44:VK:407:TRP:CH2	45:VL:255:VAL:HA	2.32	0.64
45:VL:116:VAL:CA	45:VL:119:VAL:HG12	2.25	0.64
44:WA:319:TYR:HE1	44:WA:375:VAL:HG23	1.61	0.64
45:WB:1:MET:O	45:WB:2:ARG:HG2	1.98	0.64
45:WB:4:ILE:HG23	45:WB:131:GLN:HB3	1.79	0.64
45:WD:238:CYS:HB2	45:WD:318:ARG:CZ	2.27	0.64
45:WH:283:ALA:O	45:WH:288:GLU:HG3	1.97	0.64
44:WI:269:LEU:CD1	44:WI:384:ILE:HD13	2.27	0.64
44:WI:329:ASN:HB3	45:WL:175:VAL:HG11	1.79	0.64
44:WI:356:ASN:OD1	44:WI:357:TYR:N	2.30	0.64
45:WJ:133:PHE:HB2	45:WJ:164:MET:CE	2.25	0.64
44:WK:166:LYS:N	44:WK:199:ASP:OD2	2.30	0.64
45:WL:123:GLU:O	45:WL:126:GLY:N	2.27	0.64
4:0C:56:THR:CA	44:EI:219:ILE:HG12	2.21	0.64
5:0D:38:ILE:HD11	44:DC:84:ARG:HD2	1.79	0.64
16:0X:31:ASP:HB2	45:MD:218:THR:OG1	1.97	0.64
12:2S:275:TYR:CE2	45:WJ:86:ARG:HD2	2.33	0.64
26:3R:382:TYR:HA	45:EL:276:ARG:NH1	2.12	0.64
13:3T:128:GLU:HA	44:AK:339:ARG:HH12	1.62	0.64
37:5D:107:TYR:HB3	44:NM:279:GLU:N	2.06	0.64
35:5R:96:TYR:O	35:5R:181:VAL:HG12	1.97	0.64
40:6F:126:LYS:HG3	40:6F:127:TRP:CD1	2.32	0.64
11:6Q:68:THR:HG21	11:6Q:152:LEU:HD22	1.79	0.64
35:7R:93:LEU:HD11	35:7R:190:PHE:CD2	2.32	0.64
42:8N:195:UNK:O	42:8N:199:UNK:N	2.30	0.64
44:AA:102:ASN:HD21	44:AA:411:GLU:HG3	1.62	0.64
44:AA:236:SER:O	44:AA:240:ALA:N	2.30	0.64
44:AE:259:LEU:HD11	44:AE:316:SER:CB	2.27	0.64
44:AI:221:ARG:HD2	45:AJ:322:SER:OG	1.98	0.64
45:AJ:286:VAL:HG11	45:AJ:325:GLU:HG2	1.79	0.64
45:AL:3:GLU:HG3	45:AL:62:ARG:NH2	2.12	0.64
44:AM:21:TRP:HA	44:AM:24:PHE:HB2	1.78	0.64
44:BA:7:ILE:O	44:BA:137:VAL:HA	1.97	0.64
45:BD:221:THR:O	45:BD:224:ASP:N	2.30	0.64
45:BF:9:GLY:HA2	45:BF:66:MET:O	1.97	0.64
45:BF:109:GLY:HA2	45:BF:147:MET:CE	2.26	0.64
44:BG:221:ARG:HG3	45:BH:322:SER:HB3	1.80	0.64
44:BG:326:LYS:HE2	45:BJ:208:TYR:CD2	2.28	0.64
45:BH:153:SER:HA	45:BH:195:ASN:HD21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:248:SER:HA	45:BJ:252:LYS:HD2	1.78	0.64
45:BL:207:LEU:HD11	45:BL:300:MET:HE1	1.79	0.64
45:BL:405:GLU:HA	45:BL:408:PHE:HD2	1.59	0.64
45:CB:293:MET:SD	45:CB:367:PHE:HB2	2.38	0.64
45:CD:86:ARG:HB2	45:CD:89:ASN:ND2	2.11	0.64
45:CF:72:THR:HG23	45:CF:73:MET:HE2	1.79	0.64
45:CH:25:SER:HA	45:CH:30:ILE:HG22	1.79	0.64
45:CH:86:ARG:HD2	45:DH:281:TYR:CG	2.32	0.64
45:DB:385:PHE:CE2	45:DB:412:GLU:HB2	2.32	0.64
44:DC:207:GLU:O	44:DC:210:TYR:HB2	1.97	0.64
44:DC:256:GLN:HE22	45:DD:396:HIS:CE1	2.14	0.64
44:DG:237:SER:HA	44:DG:320:ARG:NH1	2.07	0.64
44:DG:258:ASN:HD22	44:DG:352:LYS:HB2	1.62	0.64
45:DH:8:GLN:HE21	45:DH:14:ASN:HA	1.62	0.64
45:DH:200:MET:SD	45:DH:266:PHE:HB2	2.38	0.64
45:DH:248:SER:CB	45:DH:252:LYS:HD2	2.27	0.64
45:DJ:7:ILE:HB	45:DJ:135:ILE:HD12	1.78	0.64
45:DN:64:ILE:HG12	45:DN:119:VAL:CG2	2.27	0.64
44:EA:295:ALA:HB1	44:EA:377:MET:CE	2.27	0.64
44:EC:116:ASP:C	44:EC:117:LEU:HD23	2.18	0.64
44:EC:175:PRO:HA	44:EC:390:ARG:NH2	2.12	0.64
44:EC:269:LEU:N	44:EC:379:SER:O	2.31	0.64
44:EC:310:GLY:HA3	44:EC:383:ALA:HB2	1.79	0.64
45:ED:178:THR:CG2	45:ED:180:VAL:HG12	2.26	0.64
45:ED:203:ASP:OD2	45:ED:377:MET:HE2	1.97	0.64
45:ED:270:PHE:O	45:ED:298:ASN:ND2	2.27	0.64
45:EF:52:ASN:ND2	45:EF:62:ARG:HE	1.95	0.64
44:EI:384:ILE:O	44:EI:387:VAL:HG22	1.98	0.64
45:EJ:322:SER:O	44:EK:221:ARG:NH1	2.30	0.64
44:FA:2:ARG:O	44:FA:51:THR:HA	1.98	0.64
45:FF:304:ASP:OD1	45:FF:306:ARG:HG2	1.96	0.64
44:FG:264:ARG:NH2	44:FG:428:LEU:HD22	2.11	0.64
44:FG:332:ILE:HD11	44:FG:351:PHE:CD2	2.33	0.64
45:FH:257:LEU:HD11	45:FH:314:SER:CB	2.26	0.64
45:FJ:371:SER:O	45:FJ:422:TYR:OH	2.14	0.64
44:FK:19:ALA:HB2	44:FK:228:ASN:HB3	1.77	0.64
45:FL:146:GLY:O	45:FL:149:THR:N	2.29	0.64
45:GB:133:PHE:O	45:GB:165:GLU:N	2.26	0.64
44:GC:13:GLY:HA2	44:GC:16:VAL:HG12	1.77	0.64
44:GC:224:TYR:CG	45:GD:323:THR:HG21	2.32	0.64
45:GD:329:GLN:O	45:GD:333:VAL:HG23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:105:ARG:HH21	44:GE:110:ILE:HG21	1.62	0.64
44:GG:141:VAL:CG1	44:GG:172:TYR:HA	2.26	0.64
44:GG:209:ILE:HG22	44:GG:227:LEU:HD22	1.80	0.64
44:GG:272:TYR:O	44:GG:300:ASN:ND2	2.30	0.64
45:GH:253:LEU:O	45:GH:257:LEU:HD13	1.98	0.64
45:GJ:99:ASN:HA	45:GJ:142:GLY:CA	2.23	0.64
44:GK:39:ASP:O	44:GK:42:ILE:HG12	1.97	0.64
44:GM:8:HIS:O	44:GM:68:LEU:HB2	1.97	0.64
44:GM:317:MET:CA	44:GM:377:MET:HA	2.28	0.64
45:GN:50:TYR:O	45:GN:61:PRO:HA	1.98	0.64
45:GN:51:TYR:CE1	45:GN:61:PRO:HG3	2.32	0.64
45:GN:316:LEU:O	45:GN:365:VAL:HA	1.98	0.64
44:HA:118:CYS:O	44:HA:122:ILE:HG12	1.97	0.64
44:HA:169:PHE:HD1	44:HA:202:VAL:HB	1.60	0.64
45:HB:286:VAL:HB	45:HB:325:GLU:OE2	1.98	0.64
44:HC:181:VAL:N	45:HD:256:ASN:OD1	2.29	0.64
45:HD:240:LEU:O	45:HD:240:LEU:HD23	1.97	0.64
44:HG:101:ASN:HD21	45:HH:252:LYS:HG3	1.62	0.64
44:HG:259:LEU:O	44:HG:259:LEU:HD23	1.97	0.64
44:HG:311:LYS:HZ3	44:HG:342:GLN:HG3	1.60	0.64
45:HH:165:GLU:OE2	45:HH:250:LEU:HD22	1.98	0.64
44:HI:70:LEU:HD11	44:HI:149:LEU:HD21	1.80	0.64
44:HM:99:ALA:O	44:HM:105:ARG:HD3	1.97	0.64
44:IC:139:ASN:OD1	44:IC:170:THR:HG22	1.98	0.64
44:IC:141:VAL:CG2	44:IC:187:SER:HA	2.27	0.64
45:ID:66:MET:CE	45:ID:147:MET:HB3	2.27	0.64
45:ID:277:GLY:O	45:ID:280:GLN:NE2	2.29	0.64
44:IG:176:GLN:HE22	44:IG:177:VAL:HG23	1.62	0.64
44:II:1:MET:HE2	45:IL:94:GLN:CG	2.28	0.64
44:II:237:SER:HA	44:II:320:ARG:NH2	2.11	0.64
44:II:276:ILE:CG1	44:II:281:ALA:HB1	2.27	0.64
45:IL:7:ILE:HG12	45:IL:64:ILE:HB	1.79	0.64
45:IL:185:ALA:O	45:IL:189:VAL:HG23	1.96	0.64
44:IM:53:PHE:HD1	44:IM:63:PRO:HA	1.63	0.64
44:IM:230:LEU:HD11	44:IM:368:LEU:HD11	1.79	0.64
45:JD:22:GLU:HG3	45:JD:81:PHE:HE2	1.62	0.64
44:JK:237:SER:CB	44:JK:320:ARG:HH22	2.10	0.64
44:JK:335:ILE:HD13	44:JK:338:LYS:NZ	2.11	0.64
45:JN:99:ASN:HA	45:JN:142:GLY:CA	2.27	0.64
44:KA:26:LEU:HD11	44:KA:364:PRO:HD3	1.80	0.64
45:KF:368:VAL:HG13	45:KF:368:VAL:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:317:MET:HG2	44:KG:377:MET:HE1	1.79	0.64
44:KK:210:TYR:CZ	44:KK:227:LEU:HD11	2.33	0.64
45:KN:139:LEU:CA	45:KN:145:SER:HB3	2.25	0.64
44:LA:22:GLU:HG3	44:LA:83:TYR:OH	1.98	0.64
45:LJ:268:ILE:HG13	45:LJ:300:MET:HE3	1.77	0.64
44:LM:224:TYR:HE2	45:LN:246:LEU:HD11	1.63	0.64
44:MC:284:GLU:HG3	44:MC:286:LEU:HD22	1.80	0.64
45:MD:12:CYS:O	45:MD:16:ILE:HG12	1.97	0.64
44:MG:42:ILE:HD12	44:MG:45:GLY:CA	2.27	0.64
44:MG:394:LYS:HG2	45:MH:346:PRO:HG3	1.79	0.64
45:MH:97:ALA:HB3	45:MH:143:THR:CB	2.22	0.64
45:MJ:293:MET:HG2	45:MJ:365:VAL:HG11	1.78	0.64
44:MM:138:PHE:CZ	44:MM:235:ILE:HG12	2.32	0.64
45:MN:151:LEU:O	45:MN:155:VAL:HG13	1.98	0.64
45:NB:173:PRO:HD3	45:NB:380:ARG:HD2	1.79	0.64
46:NC:501:GTP:C8	45:ND:246:LEU:HD11	2.32	0.64
45:ND:12:CYS:O	45:ND:16:ILE:HD12	1.97	0.64
45:ND:135:ILE:N	45:ND:165:GLU:O	2.28	0.64
45:ND:170:VAL:CG2	45:ND:171:PRO:HD2	2.27	0.64
45:NF:350:LYS:HG2	45:NF:351:SER:H	1.61	0.64
45:NH:152:ILE:HG23	45:NH:164:MET:HE2	1.80	0.64
44:NI:137:VAL:HG22	44:NI:167:LEU:O	1.97	0.64
45:NJ:122:LYS:NZ	45:OJ:291:GLN:OE1	2.16	0.64
44:NK:396:ASP:OD1	44:NK:422:ARG:NE	2.30	0.64
44:NM:404:PHE:CE1	45:NN:259:PRO:HA	2.31	0.64
44:NM:424:ASP:O	44:NM:428:LEU:HG	1.96	0.64
44:OC:2:ARG:HD3	44:OC:242:LEU:HD22	1.79	0.64
45:OD:311:LEU:HB2	45:OD:370:ASN:O	1.97	0.64
44:OE:331:SER:O	44:OE:335:ILE:HG12	1.98	0.64
45:OH:116:VAL:HA	45:OH:119:VAL:HG22	1.77	0.64
45:ON:143:THR:HG22	48:ON:501:GDP:PB	2.38	0.64
45:ON:415:MET:HA	45:ON:418:LEU:HB3	1.78	0.64
44:PA:96:LYS:HA	45:PB:1:MET:HE2	1.80	0.64
45:PB:317:PHE:HB2	45:PB:353:ILE:HA	1.78	0.64
45:PF:6:HIS:HB3	45:PF:63:ALA:HA	1.79	0.64
45:PF:31:ASP:HB3	45:PF:32:PRO:CD	2.27	0.64
44:QE:14:ILE:CD1	44:QE:69:ASP:HB2	2.27	0.64
45:QF:208:TYR:OH	45:QF:225:LEU:HD11	1.97	0.64
44:QG:68:LEU:HD21	44:QG:118:CYS:SG	2.37	0.64
45:QH:304:ASP:OD1	45:QH:305:PRO:HD2	1.97	0.64
45:QL:64:ILE:HG21	45:QL:116:VAL:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:255:VAL:HA	44:QM:407:TRP:CZ3	2.33	0.64
45:QN:135:ILE:HB	45:QN:166:THR:CA	2.20	0.64
45:QN:207:LEU:HB3	45:QN:225:LEU:HD22	1.77	0.64
45:QN:295:ASP:CG	45:QN:297:LYS:HG2	2.17	0.64
44:RA:209:ILE:HD13	44:RA:227:LEU:HB3	1.78	0.64
44:RE:311:LYS:HZ1	44:RE:344:VAL:HA	1.61	0.64
44:RG:223:THR:HG23	44:RG:225:THR:H	1.61	0.64
45:RH:25:SER:O	45:RH:30:ILE:HG22	1.96	0.64
45:RH:318:ARG:HD3	45:RH:358:PRO:CD	2.25	0.64
44:RI:72:PRO:HB2	44:RI:76:ASP:OD2	1.98	0.64
45:RJ:285:THR:O	45:RJ:289:LEU:HG	1.96	0.64
44:RK:5:ILE:HB	44:RK:135:PHE:CE1	2.31	0.64
45:RL:6:HIS:HB2	45:RL:134:GLN:HE21	1.62	0.64
44:RM:391:LEU:HA	44:RM:394:LYS:HE2	1.79	0.64
44:SA:76:ASP:O	44:SA:80:THR:OG1	2.07	0.64
45:SB:241:ARG:HG3	45:SB:242:PHE:CD2	2.33	0.64
44:SE:268:MET:HG3	44:SE:380:ASN:HB2	1.78	0.64
44:SG:230:LEU:HD11	44:SG:368:LEU:HD21	1.79	0.64
44:SI:257:THR:HG21	45:SJ:98:GLY:O	1.96	0.64
44:SM:105:ARG:HA	44:SM:109:THR:CB	2.28	0.64
44:SM:140:SER:OG	44:SM:146:GLY:HA3	1.98	0.64
44:TC:5:ILE:HG22	44:TC:7:ILE:HD11	1.79	0.64
45:TD:116:VAL:O	45:TD:120:VAL:HG13	1.97	0.64
45:TD:278:SER:HA	45:TD:281:TYR:HD2	1.63	0.64
44:TG:69:ASP:OD1	44:TG:70:LEU:N	2.30	0.64
45:TH:396:HIS:HA	45:TH:399:THR:OG1	1.97	0.64
44:TK:99:ALA:O	44:TK:105:ARG:HD3	1.97	0.64
44:TK:166:LYS:O	44:TK:199:ASP:HB2	1.98	0.64
44:TK:241:SER:HB2	44:TK:249:ASN:HB3	1.79	0.64
44:TM:201:ALA:O	44:TM:268:MET:N	2.30	0.64
44:UA:9:VAL:HG21	44:UA:149:LEU:HB3	1.78	0.64
44:UC:4:VAL:HG23	44:UC:134:GLY:C	2.17	0.64
45:UD:101:TRP:CE3	45:UD:187:LEU:HD13	2.32	0.64
45:UD:283:ALA:CB	45:UD:288:GLU:HG3	2.28	0.64
45:UH:130:LEU:HG	45:UH:162:ARG:CD	2.27	0.64
45:UJ:101:TRP:CZ3	45:UJ:187:LEU:HD13	2.32	0.64
45:UJ:227:HIS:O	45:UJ:230:SER:HB2	1.97	0.64
44:UK:265:ILE:HD12	44:UK:432:TYR:CE1	2.32	0.64
45:UN:113:ILE:HD13	45:UN:150:LEU:HD22	1.78	0.64
45:UN:211:CYS:HA	45:UN:215:LEU:CB	2.28	0.64
44:VA:318:MET:HA	44:VA:354:GLY:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:103:PHE:CD2	44:VE:189:LEU:HD13	2.32	0.64
44:VE:209:ILE:HA	44:VE:212:ILE:CG2	2.26	0.64
45:VF:12:CYS:O	45:VF:16:ILE:HG12	1.98	0.64
45:VF:253:LEU:HD21	45:VF:316:LEU:HD11	1.79	0.64
45:VF:276:ARG:NH1	45:VF:279:GLN:OE1	2.31	0.64
45:VH:204:ASN:O	45:VH:207:LEU:HB2	1.97	0.64
44:VI:75:ILE:CG2	44:VI:79:ARG:HH12	2.07	0.64
44:VI:92:LEU:HD23	44:VI:92:LEU:H	1.62	0.64
44:VI:348:PRO:HB2	45:VL:384:GLN:HE22	1.61	0.64
45:VJ:101:TRP:CE2	45:VJ:187:LEU:HB3	2.33	0.64
44:VK:434:GLU:O	44:VK:437:ILE:HG12	1.98	0.64
45:VN:14:ASN:OD1	45:VN:65:LEU:HD23	1.98	0.64
45:WH:388:MET:SD	45:WH:393:ALA:HB3	2.37	0.64
3:0B:214:LYS:HB2	44:JI:46:ASP:HB2	1.79	0.64
18:1F:31:PHE:CD1	44:HK:364:PRO:HB3	2.28	0.64
21:1K:213:ASN:HA	44:GA:282:TYR:HE2	1.60	0.64
15:1V:37:THR:HG22	44:MI:211:ASP:OD1	1.98	0.64
25:2P:410:TRP:CZ3	45:TL:280:GLN:HB2	2.32	0.64
26:2R:505:TYR:HB2	44:EG:39:ASP:HB3	1.78	0.64
15:2V:118:LYS:HE2	44:LE:434:GLU:OE2	1.94	0.64
6:3E:47:GLU:CD	35:6R:380:ARG:HH22	2.00	0.64
37:5D:41:SER:HB2	44:KK:258:ASN:O	1.96	0.64
35:6R:323:LEU:HD13	45:CN:276:ARG:HD2	1.76	0.64
35:7R:87:LYS:HE3	35:7R:88:TYR:CZ	2.32	0.64
44:AA:91:GLN:O	44:AA:93:ILE:HD12	1.97	0.64
44:AC:215:ARG:NH2	44:AC:299:ALA:O	2.30	0.64
44:AE:99:ALA:O	44:AE:105:ARG:HD3	1.97	0.64
44:AE:221:ARG:HG3	44:AE:221:ARG:O	1.97	0.64
45:AH:235:GLY:HA2	45:AH:318:ARG:NH2	2.12	0.64
45:AJ:231:ALA:O	45:AJ:234:SER:OG	2.11	0.64
45:AJ:342:VAL:HG13	45:AJ:345:ILE:HG22	1.79	0.64
45:AL:288:GLU:O	45:AL:291:GLN:HG3	1.98	0.64
44:BC:66:VAL:HG22	44:BC:68:LEU:CD2	2.27	0.64
45:BD:130:LEU:HD22	45:BD:162:ARG:HG3	1.78	0.64
45:BD:173:PRO:CG	45:BD:380:ARG:HD3	2.28	0.64
44:BE:422:ARG:HH11	44:BE:422:ARG:HG3	1.62	0.64
45:BF:5:VAL:HG12	45:BF:62:ARG:HD3	1.78	0.64
45:BF:132:GLY:HA3	45:BF:163:ILE:HG13	1.78	0.64
45:BF:294:PHE:CE1	45:BF:333:VAL:HG11	2.32	0.64
44:BG:408:TYR:HB3	44:BG:413:MET:CE	2.27	0.64
45:BH:186:THR:HG21	45:BH:385:PHE:CE1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BH:399:THR:HA	45:BH:403:MET:O	1.98	0.64
45:BL:173:PRO:HG3	45:BL:380:ARG:HD3	1.78	0.64
45:BL:286:VAL:HB	45:BL:325:GLU:OE2	1.97	0.64
45:CB:144:GLY:O	45:CB:148:GLY:N	2.26	0.64
44:CE:200:VAL:HG13	44:CE:268:MET:CE	2.26	0.64
45:CF:135:ILE:HD11	45:CF:164:MET:HE3	1.79	0.64
45:CF:173:PRO:CG	45:CF:380:ARG:HD3	2.28	0.64
44:CG:288:VAL:HG11	44:CG:327:ASP:CB	2.26	0.64
45:CH:11:GLN:CG	45:CH:72:THR:HG21	2.27	0.64
44:CK:164:LYS:HD3	44:CK:165:SER:N	2.11	0.64
45:CL:178:THR:HG22	45:CL:180:VAL:H	1.60	0.64
45:CL:311:LEU:HD12	45:CL:312:THR:N	2.12	0.64
45:CL:314:SER:HA	45:CL:350:LYS:CB	2.27	0.64
44:CM:21:TRP:HZ2	44:CM:65:ALA:HB3	1.62	0.64
44:DA:54:SER:OG	44:DA:62:VAL:HB	1.97	0.64
45:DD:101:TRP:CE3	45:DD:187:LEU:HD13	2.31	0.64
44:DE:4:VAL:HG23	44:DE:134:GLY:O	1.97	0.64
44:DE:60:LYS:HD3	44:EE:283:HIS:CD2	2.32	0.64
44:DE:315:CYS:SG	44:DE:379:SER:HB3	2.38	0.64
45:DF:258:ILE:HB	44:DG:407:TRP:HH2	1.61	0.64
45:DF:267:MET:N	45:DF:369:GLY:O	2.27	0.64
44:DI:225:THR:HA	44:DI:228:ASN:ND2	2.13	0.64
44:DK:68:LEU:HD21	44:DK:118:CYS:CB	2.26	0.64
44:DK:209:ILE:HG12	44:DK:302:MET:CE	2.28	0.64
44:DK:237:SER:HA	44:DK:320:ARG:NH1	2.12	0.64
45:DL:172:SER:HB3	45:DL:377:MET:HE1	1.78	0.64
44:EE:315:CYS:HB3	44:EE:351:PHE:CD1	2.32	0.64
45:EF:253:LEU:HD21	45:EF:316:LEU:HD11	1.80	0.64
44:EI:301:MET:HE2	44:EI:307:PRO:HG3	1.80	0.64
45:EJ:177:ASP:OD2	48:EJ:501:GDP:H3'	1.97	0.64
44:EK:183:GLU:N	44:EK:184:PRO:HD2	2.12	0.64
44:EK:217:LEU:HB2	44:EK:219:ILE:HG13	1.80	0.64
45:EL:42:LEU:HA	45:EL:45:GLU:CG	2.21	0.64
45:EL:109:GLY:HA2	45:EL:147:MET:HE2	1.78	0.64
45:EL:286:VAL:CG2	45:EL:287:PRO:HD3	2.27	0.64
44:EM:34:GLY:O	44:EM:60:LYS:HA	1.97	0.64
44:EM:188:ILE:HG23	44:EM:425:LEU:HD12	1.78	0.64
44:EM:209:ILE:HG12	44:EM:302:MET:SD	2.37	0.64
44:EM:288:VAL:CA	44:EM:291:ILE:HG12	2.27	0.64
44:FA:141:VAL:O	44:FA:147:SER:HB3	1.98	0.64
44:FA:277:SER:C	44:FA:369:ALA:HB2	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:291:ILE:HG13	44:FA:292:THR:N	2.13	0.64
44:FC:177:VAL:CG2	45:FD:327:ASP:HB3	2.27	0.64
45:FH:279:GLN:O	45:FH:282:ARG:HG2	1.97	0.64
44:FI:221:ARG:HH22	45:FJ:324:LYS:N	1.95	0.64
44:FK:288:VAL:HG13	44:FK:373:ARG:HH21	1.62	0.64
44:FM:112:LYS:O	44:FM:115:VAL:HG12	1.96	0.64
44:FM:301:MET:HG3	44:FM:303:ALA:H	1.62	0.64
45:FN:44:LEU:O	45:FN:47:ILE:HG22	1.97	0.64
45:FN:208:TYR:CE1	45:FN:225:LEU:HD11	2.32	0.64
44:GA:319:TYR:CD2	44:GA:375:VAL:HB	2.33	0.64
45:GB:237:THR:O	45:GB:240:LEU:HG	1.96	0.64
45:GB:271:ALA:HB1	45:GB:272:PRO:HA	1.78	0.64
45:GD:134:GLN:HA	45:GD:165:GLU:HB2	1.80	0.64
45:GF:152:ILE:O	45:GF:155:VAL:HG12	1.97	0.64
44:GG:304:LYS:HE2	44:GG:304:LYS:HA	1.79	0.64
44:GI:9:VAL:HG11	44:GI:150:GLY:CA	2.27	0.64
44:GI:155:GLU:OE1	44:GI:197:HIS:NE2	2.31	0.64
44:GK:89:PRO:HD2	44:HK:283:HIS:ND1	2.11	0.64
44:GM:30:ILE:HA	44:GM:36:MET:CE	2.27	0.64
44:GM:176:GLN:OE1	45:GN:331:LEU:HD13	1.97	0.64
44:HA:210:TYR:HB3	45:HB:324:LYS:HD2	1.79	0.64
44:HC:68:LEU:HD21	44:HC:118:CYS:CB	2.24	0.64
44:HC:101:ASN:OD1	45:HD:252:LYS:HE2	1.97	0.64
44:HC:396:ASP:O	44:HC:400:ALA:N	2.30	0.64
44:HE:203:MET:HG3	44:HE:384:ILE:CD1	2.28	0.64
45:HF:60:VAL:HG21	45:HF:86:ARG:HG2	1.80	0.64
45:HJ:47:ILE:HD13	45:HJ:59:TYR:CE2	2.32	0.64
45:HN:222:TYR:O	45:HN:226:ASN:ND2	2.25	0.64
45:IB:332:ASN:O	45:IB:335:ASN:N	2.28	0.64
44:IC:271:SER:HB2	44:IC:377:MET:SD	2.38	0.64
45:ID:178:THR:HB	45:ID:181:GLU:CG	2.26	0.64
44:IE:224:TYR:CD1	45:IF:323:THR:HG21	2.32	0.64
44:IE:252:ILE:HD13	44:IE:255:PHE:CE2	2.32	0.64
45:IF:114:ASP:OD1	45:IF:115:SER:N	2.29	0.64
45:IH:239:CYS:SG	45:IH:248:SER:N	2.62	0.64
45:IJ:19:LYS:HG3	45:IJ:23:VAL:HG23	1.78	0.64
44:IM:85:GLN:HA	45:JN:281:TYR:OH	1.96	0.64
44:IM:115:VAL:HG23	44:IM:153:LEU:CD2	2.27	0.64
45:IN:295:ASP:OD1	45:IN:296:ALA:N	2.29	0.64
44:JA:101:ASN:OD1	44:JA:186:ASN:ND2	2.31	0.64
44:JC:88:HIS:CE1	44:JC:90:GLU:HG2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:260:VAL:HG13	44:JC:260:VAL:O	1.96	0.64
45:JD:145:SER:O	45:JD:149:THR:HG23	1.98	0.64
44:JE:257:THR:HA	45:JH:397:TRP:CZ2	2.32	0.64
45:JH:167:PHE:CE2	45:JH:233:MET:HB3	2.32	0.64
44:JI:89:PRO:HD3	44:KI:283:HIS:HD2	1.62	0.64
44:JI:213:CYS:O	44:JI:217:LEU:HB2	1.96	0.64
45:JJ:324:LYS:NZ	45:JJ:328:GLU:OE1	2.30	0.64
45:JJ:406:MET:O	45:JJ:409:THR:HG22	1.97	0.64
45:JL:2:ARG:HD3	45:JL:240:LEU:HG	1.79	0.64
45:JL:406:MET:O	45:JL:409:THR:HG22	1.98	0.64
45:JN:173:PRO:CG	45:JN:380:ARG:HB3	2.26	0.64
45:JN:268:ILE:CG2	45:JN:368:VAL:HG22	2.27	0.64
44:KA:202:VAL:HG13	44:KA:269:LEU:HA	1.79	0.64
45:KB:326:VAL:O	45:KB:330:MET:HG2	1.98	0.64
44:KC:261:PRO:HA	45:KF:394:PHE:CE1	2.32	0.64
44:KC:333:ALA:O	44:KC:337:THR:HG23	1.97	0.64
45:KF:331:LEU:HD12	45:KF:334:GLN:HE21	1.61	0.64
45:KH:7:ILE:HB	45:KH:135:ILE:CD1	2.27	0.64
45:KH:260:PHE:HB3	45:KH:261:PRO:HD2	1.80	0.64
44:KK:174:SER:OG	44:KK:175:PRO:HD2	1.97	0.64
44:KK:195:LEU:CD1	44:KK:265:ILE:HA	2.28	0.64
44:KK:276:ILE:HD11	44:KK:280:LYS:O	1.97	0.64
44:KK:413:MET:HE3	44:KK:413:MET:HA	1.78	0.64
45:KL:426:GLN:NE2	45:KL:427:ASP:OD1	2.31	0.64
45:KN:105:HIS:CD2	45:KN:150:LEU:HD22	2.33	0.64
45:KN:139:LEU:HA	45:KN:145:SER:CB	2.27	0.64
44:LC:261:PRO:HA	45:LF:394:PHE:CE1	2.33	0.64
44:LG:285:GLN:HE22	44:LG:287:SER:HB2	1.62	0.64
45:LN:117:LEU:HA	45:LN:120:VAL:HG12	1.79	0.64
45:LN:330:MET:O	45:LN:333:VAL:HG12	1.97	0.64
45:MB:9:GLY:O	45:MB:13:GLY:HA3	1.98	0.64
45:MB:116:VAL:HA	45:MB:119:VAL:HG12	1.78	0.64
45:MD:8:GLN:O	45:MD:66:MET:HG2	1.97	0.64
44:ME:9:VAL:HG11	44:ME:153:LEU:HD12	1.79	0.64
44:MG:316:SER:CB	44:MG:352:LYS:HB3	2.26	0.64
45:ML:165:GLU:OE2	45:ML:250:LEU:HD11	1.97	0.64
45:ND:262:ARG:HD2	45:ND:421:GLU:OE1	1.97	0.64
45:NF:215:LEU:HD21	45:NF:273:LEU:CD1	2.26	0.64
45:NL:23:VAL:HG11	45:NL:230:SER:HB2	1.80	0.64
45:NL:87:PRO:HA	45:NL:90:PHE:HD2	1.62	0.64
45:NL:217:LEU:HD11	45:NL:220:PRO:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:385:ALA:HB2	44:OA:432:TYR:HD2	1.62	0.64
45:OB:230:SER:HA	45:OB:233:MET:CE	2.28	0.64
44:OE:34:GLY:CA	44:OE:60:LYS:HG3	2.25	0.64
44:OG:23:LEU:HD13	44:OG:233:GLN:NE2	2.12	0.64
45:OH:167:PHE:HE2	45:OH:233:MET:HB3	1.61	0.64
44:OK:31:GLN:HB3	44:OK:32:PRO:HD2	1.78	0.64
45:OL:290:THR:HA	45:OL:293:MET:HG2	1.79	0.64
44:OM:175:PRO:HG3	44:OM:390:ARG:CZ	2.28	0.64
44:PA:75:ILE:HD13	44:PA:92:LEU:O	1.96	0.64
44:PC:32:PRO:O	44:PC:85:GLN:NE2	2.29	0.64
44:PC:271:SER:HB2	44:PC:377:MET:SD	2.38	0.64
45:PD:178:THR:HG21	45:PD:181:GLU:CD	2.17	0.64
45:PD:205:GLU:HA	45:PD:208:TYR:HD2	1.61	0.64
44:PE:69:ASP:OD1	44:PE:70:LEU:N	2.31	0.64
44:PE:268:MET:HB3	44:PE:380:ASN:OD1	1.97	0.64
44:PE:340:THR:HG23	44:PE:341:ILE:CD1	2.26	0.64
44:PK:269:LEU:HD23	44:PK:269:LEU:H	1.62	0.64
44:PM:3:GLU:O	44:PM:132:LEU:HA	1.98	0.64
44:PM:20:CYS:HA	44:PM:232:ALA:HB1	1.80	0.64
44:PM:63:PRO:HG2	44:PM:86:LEU:CD2	2.26	0.64
44:PM:210:TYR:CZ	44:PM:227:LEU:HD11	2.31	0.64
44:PM:315:CYS:SG	44:PM:379:SER:HB3	2.38	0.64
45:PN:329:GLN:O	45:PN:333:VAL:HG23	1.96	0.64
44:QA:310:GLY:CA	44:QA:383:ALA:HB2	2.26	0.64
45:QB:54:ALA:HA	45:RB:283:ALA:CB	2.27	0.64
45:QB:139:LEU:HG	45:QB:145:SER:HB2	1.79	0.64
44:QE:268:MET:CB	44:QE:380:ASN:HB2	2.26	0.64
44:QG:278:ALA:H	44:QG:369:ALA:HB2	1.63	0.64
44:QG:422:ARG:NH1	44:QG:426:ALA:HB2	2.11	0.64
45:QH:315:ALA:N	45:QH:350:LYS:O	2.30	0.64
44:QI:207:GLU:OE1	44:QI:304:LYS:NZ	2.25	0.64
44:RA:51:THR:HG21	44:RA:243:ARG:HD3	1.80	0.64
44:RA:195:LEU:HD12	44:RA:267:PHE:HE1	1.62	0.64
45:RB:193:VAL:HA	45:RB:264:HIS:NE2	2.12	0.64
44:RE:288:VAL:HG23	44:RE:373:ARG:HD2	1.80	0.64
44:RG:30:ILE:HA	44:RG:36:MET:HE2	1.79	0.64
45:RH:21:TRP:CZ2	45:RH:61:PRO:HB3	2.33	0.64
45:RH:415:MET:O	45:RH:419:VAL:HG23	1.97	0.64
44:RI:328:VAL:O	44:RI:331:SER:OG	2.13	0.64
44:RI:347:CYS:HA	45:RJ:388:MET:HE2	1.79	0.64
44:RK:215:ARG:NH2	44:RK:300:ASN:HA	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:262:ARG:HA	45:RL:264:HIS:CD2	2.33	0.64
45:RL:286:VAL:HG13	45:RL:317:PHE:HE2	1.62	0.64
45:RL:417:ASP:OD1	45:RL:421:GLU:HG3	1.97	0.64
45:RN:258:ILE:HG13	45:RN:266:PHE:CZ	2.25	0.64
44:SA:125:LEU:HA	44:SA:128:ASN:OD1	1.97	0.64
44:SA:179:THR:HG21	46:SA:501:GTP:H3'	1.79	0.64
44:SA:346:TRP:CD1	45:SB:391:ARG:HG3	2.32	0.64
44:SA:425:LEU:O	44:SA:429:GLU:HG3	1.97	0.64
45:SB:52:ASN:O	45:SB:59:TYR:HA	1.97	0.64
45:SB:130:LEU:HD21	45:SB:133:PHE:CZ	2.31	0.64
45:SB:259:PRO:HA	44:SC:404:PHE:CZ	2.32	0.64
44:SC:56:THR:O	44:TC:285:GLN:HA	1.98	0.64
45:SN:130:LEU:HD21	45:SN:133:PHE:CZ	2.33	0.64
45:TB:86:ARG:HB3	45:TB:89:ASN:HB2	1.79	0.64
44:TC:68:LEU:HD21	44:TC:118:CYS:SG	2.38	0.64
44:TC:269:LEU:HD23	44:TC:379:SER:C	2.18	0.64
44:TE:324:VAL:CG1	44:TE:326:LYS:HG3	2.28	0.64
44:TI:20:CYS:HA	44:TI:232:ALA:HB1	1.78	0.64
44:TI:323:VAL:CG1	44:TI:373:ARG:HG2	2.28	0.64
45:TL:214:THR:O	45:TL:275:SER:HB3	1.97	0.64
45:TL:232:ALA:O	45:TL:236:VAL:HG23	1.97	0.64
44:UA:298:PRO:HA	44:UA:307:PRO:HG3	1.79	0.64
45:UB:268:ILE:CG2	45:UB:368:VAL:HG22	2.28	0.64
45:UB:387:ALA:O	45:UB:390:ARG:HG2	1.98	0.64
45:UF:351:SER:HB2	44:UG:179:THR:CG2	2.25	0.64
45:UF:405:GLU:O	45:UF:408:PHE:N	2.29	0.64
45:UF:406:MET:O	45:UF:410:GLU:HG3	1.97	0.64
44:UG:35:GLN:OE1	44:UG:35:GLN:N	2.31	0.64
44:UG:53:PHE:CD2	44:UG:63:PRO:HA	2.32	0.64
45:UJ:132:GLY:HA3	45:UJ:163:ILE:HG13	1.79	0.64
44:UM:103:PHE:H	44:UM:408:TYR:HE1	1.44	0.64
44:VA:254:GLU:HG2	45:VD:98:GLY:HA2	1.79	0.64
45:VB:183:TYR:O	45:VB:187:LEU:N	2.27	0.64
44:VC:238:LEU:HD21	44:VC:255:PHE:CZ	2.32	0.64
44:VC:268:MET:HB3	44:VC:380:ASN:HB2	1.80	0.64
45:VF:149:THR:OG1	45:VF:191:GLN:HB3	1.96	0.64
44:VG:384:ILE:HD11	44:VG:432:TYR:OH	1.97	0.64
44:VM:34:GLY:O	44:VM:61:HIS:N	2.30	0.64
44:VM:115:VAL:HG21	44:VM:156:ARG:HD2	1.80	0.64
44:VM:190:SER:O	44:VM:194:LEU:HG	1.98	0.64
44:VM:222:PRO:HD2	45:VN:324:LYS:CE	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:5:VAL:HG22	45:VN:133:PHE:CD1	2.33	0.64
45:VN:118:ASP:HB3	45:VN:148:GLY:HA2	1.80	0.64
45:VN:246:LEU:HB2	45:VN:353:ILE:CD1	2.27	0.64
45:WB:3:GLU:O	45:WB:131:GLN:N	2.23	0.64
44:WC:230:LEU:CD1	44:WC:275:ILE:HD13	2.27	0.64
44:WC:296:PHE:CE2	44:WC:335:ILE:HG21	2.31	0.64
45:WD:172:SER:CB	45:WD:205:GLU:HB2	2.27	0.64
45:WD:318:ARG:HD3	45:WD:358:PRO:CG	2.27	0.64
44:WE:5:ILE:HD11	44:WE:129:CYS:SG	2.37	0.64
44:WE:18:ASN:OD1	44:WE:19:ALA:N	2.30	0.64
45:WF:156:ARG:HD3	45:WF:164:MET:CG	2.27	0.64
3:OB:241:LEU:HD13	45:JL:227:HIS:NE2	2.12	0.64
5:OD:75:ASP:OD1	45:EB:362:LYS:HG2	1.97	0.64
7:OF:78:THR:CG2	45:ED:42:LEU:HD11	2.28	0.64
16:OX:5:LYS:HE2	44:MA:245:ASP:OD2	1.97	0.64
17:1B:1:MET:SD	45:LD:359:LYS:HG3	2.38	0.64
10:1N:158:THR:HG23	45:KJ:227:HIS:CE1	2.30	0.64
15:1V:99:PRO:HG2	44:LI:409:VAL:HG21	1.79	0.64
12:3S:269:VAL:HG12	11:6Q:35:LYS:HB3	1.78	0.64
38:5E:200:LEU:CD1	44:LC:396:ASP:HB3	2.27	0.64
35:5R:519:LYS:O	35:5R:522:VAL:HG12	1.98	0.64
11:6Q:85:LYS:HG3	11:6Q:159:ASN:OD1	1.97	0.64
42:8L:302:UNK:HA	42:8L:305:UNK:CB	2.27	0.64
43:8P:136:UNK:O	43:8P:140:UNK:N	2.30	0.64
43:8P:343:UNK:O	43:8P:347:UNK:N	2.30	0.64
45:AB:164:MET:HA	45:AB:164:MET:HE3	1.78	0.64
45:AB:208:TYR:HE1	45:AB:225:LEU:HD11	1.61	0.64
44:AC:141:VAL:HG11	44:AC:172:TYR:HD1	1.62	0.64
44:AC:209:ILE:CG2	44:AC:227:LEU:HD13	2.27	0.64
44:AI:265:ILE:HD12	44:AI:432:TYR:CZ	2.32	0.64
44:AI:323:VAL:CG2	44:AI:355:ILE:HD12	2.27	0.64
44:AK:420:GLU:O	44:AK:423:GLU:HG2	1.97	0.64
45:BD:211:CYS:HB2	45:BD:220:PRO:HG3	1.80	0.64
45:BH:270:PHE:HD2	45:BH:273:LEU:HD21	1.63	0.64
44:CA:103:PHE:CE1	44:CA:148:GLY:HA2	2.32	0.64
44:CA:105:ARG:HA	44:CA:109:THR:CB	2.21	0.64
45:CD:330:MET:HE2	45:CD:349:ILE:HG21	1.79	0.64
44:CE:3:GLU:CB	44:CE:64:ARG:HH12	2.08	0.64
44:CI:185:TYR:O	44:CI:188:ILE:HG22	1.97	0.64
44:CI:295:ALA:HB1	44:CI:377:MET:HE3	1.79	0.64
45:CJ:355:ASP:O	45:CJ:356:ILE:HD13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CK:203:MET:HG3	44:CK:304:LYS:HZ1	1.62	0.64
44:CM:2:ARG:NH1	44:CM:51:THR:OG1	2.30	0.64
44:CM:137:VAL:CG1	44:CM:168:GLY:HA2	2.27	0.64
44:CM:310:GLY:HA3	44:CM:383:ALA:HB2	1.80	0.64
44:CM:420:GLU:O	44:CM:423:GLU:HG2	1.97	0.64
45:CN:316:LEU:HB2	45:CN:366:THR:CG2	2.26	0.64
44:DA:63:PRO:HG3	44:DA:86:LEU:CD1	2.27	0.64
44:DA:320:ARG:CA	44:DA:356:ASN:HB3	2.27	0.64
45:DB:151:LEU:O	45:DB:155:VAL:HG23	1.98	0.64
45:DB:187:LEU:HD11	45:DB:408:PHE:CE1	2.33	0.64
45:DB:348:ASN:HA	44:DC:181:VAL:HG12	1.79	0.64
45:DD:20:PHE:O	45:DD:23:VAL:HG12	1.97	0.64
45:DD:259:PRO:HA	44:DE:404:PHE:HE1	1.63	0.64
44:DE:390:ARG:HG3	44:DE:391:LEU:HD12	1.80	0.64
45:DH:69:GLU:OE1	45:DH:71:GLY:N	2.30	0.64
45:DH:238:CYS:HB2	45:DH:318:ARG:NH2	2.13	0.64
45:DH:275:SER:OG	45:DH:278:SER:N	2.30	0.64
45:DJ:230:SER:HA	45:DJ:233:MET:CE	2.28	0.64
45:DL:269:GLY:HA2	45:DL:300:MET:CE	2.27	0.64
44:DM:325:PRO:HG2	45:DN:222:TYR:HE2	1.61	0.64
45:EB:170:VAL:HG21	45:EB:377:MET:SD	2.38	0.64
45:EB:248:SER:OG	45:EB:252:LYS:HD2	1.97	0.64
45:EB:252:LYS:CA	44:EC:100:ALA:HB1	2.28	0.64
45:ED:135:ILE:O	45:ED:166:THR:HA	1.97	0.64
44:EE:323:VAL:HG13	44:EE:373:ARG:HD3	1.78	0.64
45:EF:68:LEU:HB2	45:EF:143:THR:OG1	1.98	0.64
44:EG:24:PHE:HZ	44:EG:235:ILE:HG22	1.62	0.64
44:EI:326:LYS:CG	45:EJ:220:PRO:HD2	2.28	0.64
45:EJ:86:ARG:HH21	45:EJ:87:PRO:HG2	1.63	0.64
44:EK:89:PRO:HB2	44:FI:280:LYS:HD3	1.79	0.64
44:EM:6:SER:HB2	44:EM:136:LEU:HB2	1.79	0.64
44:FA:91:GLN:HG2	44:FA:121:ARG:CZ	2.28	0.64
44:FA:166:LYS:N	44:FA:199:ASP:OD2	2.29	0.64
44:FA:172:TYR:HD2	44:FA:203:MET:CE	2.10	0.64
45:FB:171:PRO:CB	45:FB:181:GLU:HB3	2.27	0.64
44:FC:433:GLU:O	44:FC:437:ILE:HG23	1.98	0.64
44:FE:212:ILE:CD1	44:FE:300:ASN:HA	2.27	0.64
45:FJ:60:VAL:HG23	45:FJ:84:LEU:O	1.97	0.64
44:FK:224:TYR:CD2	45:FL:323:THR:HG21	2.32	0.64
44:FM:269:LEU:HD12	44:FM:301:MET:CG	2.26	0.64
45:FN:51:TYR:O	45:FN:62:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:396:HIS:HA	45:GD:399:THR:HG22	1.79	0.64
44:GE:174:SER:OG	44:GE:207:GLU:HB2	1.98	0.64
44:GG:205:ASP:OD1	44:GG:303:ALA:HA	1.97	0.64
44:GK:276:ILE:HG12	44:GK:281:ALA:CA	2.28	0.64
45:GL:215:LEU:HD23	45:GL:273:LEU:HB3	1.78	0.64
45:GL:256:ASN:OD1	45:GL:350:LYS:HD2	1.97	0.64
45:GL:314:SER:CB	45:GL:350:LYS:HB3	2.27	0.64
44:GM:409:VAL:HA	44:GM:413:MET:O	1.97	0.64
45:GN:161:ASP:OD1	45:GN:162:ARG:N	2.31	0.64
44:HA:1:MET:HE3	45:HD:94:GLN:CA	2.27	0.64
45:HB:166:THR:O	45:HB:199:CYS:HA	1.98	0.64
45:HB:252:LYS:HA	45:HB:255:VAL:CG2	2.28	0.64
45:HB:257:LEU:HA	45:HB:312:THR:HG21	1.79	0.64
45:HB:342:VAL:HG21	45:HB:345:ILE:HG22	1.79	0.64
44:HC:23:LEU:CD2	44:HC:236:SER:HB2	2.27	0.64
44:HC:88:HIS:HB3	44:HC:91:GLN:HG2	1.80	0.64
44:HG:175:PRO:HG2	44:HG:304:LYS:HG2	1.79	0.64
44:HI:1:MET:O	44:HI:131:GLY:HA3	1.96	0.64
44:HI:142:GLY:O	44:HI:186:ASN:ND2	2.30	0.64
44:HI:177:VAL:HG11	45:HJ:327:ASP:HB3	1.79	0.64
44:HK:207:GLU:O	44:HK:210:TYR:HB2	1.97	0.64
45:HN:149:THR:OG1	45:HN:191:GLN:HG2	1.97	0.64
45:HN:233:MET:O	45:HN:236:VAL:HG22	1.96	0.64
44:IA:311:LYS:HE2	44:IA:342:GLN:NE2	2.12	0.64
45:IB:205:GLU:HA	45:IB:208:TYR:HD2	1.62	0.64
45:IB:262:ARG:NH2	45:IB:421:GLU:OE1	2.31	0.64
45:IB:286:VAL:HA	45:IB:289:LEU:HD12	1.79	0.64
44:IC:88:HIS:HA	45:JD:281:TYR:CE2	2.32	0.64
45:ID:164:MET:CE	45:ID:196:ALA:HA	2.27	0.64
45:IH:102:ALA:HB1	45:IH:401:GLU:HB2	1.79	0.64
45:IH:200:MET:CG	45:IH:266:PHE:HB2	2.10	0.64
45:IJ:87:PRO:HA	45:IJ:90:PHE:HD2	1.63	0.64
45:IN:285:THR:CB	45:IN:287:PRO:HD2	2.26	0.64
45:IN:372:THR:HA	45:IN:422:TYR:HE2	1.62	0.64
44:JA:105:ARG:O	44:JA:110:ILE:HB	1.97	0.64
44:JG:102:ASN:OD1	44:JG:105:ARG:N	2.28	0.64
44:JG:224:TYR:CE2	45:JH:323:THR:HG21	2.32	0.64
45:JH:294:PHE:CD2	45:JH:333:VAL:HG21	2.32	0.64
45:JJ:73:MET:CE	45:JJ:92:PHE:HB3	2.27	0.64
44:KA:252:ILE:HA	44:KA:255:PHE:CD2	2.33	0.64
45:KB:108:GLU:OE2	45:KB:108:GLU:HA	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:116:VAL:O	45:KB:119:VAL:HG12	1.97	0.64
45:KB:169:VAL:HA	45:KB:202:ILE:O	1.98	0.64
45:KH:131:GLN:NE2	45:KH:250:LEU:HB2	2.08	0.64
44:KI:394:LYS:NZ	44:KI:394:LYS:CE	2.61	0.64
45:KJ:150:LEU:O	45:KJ:154:LYS:HG2	1.97	0.64
45:KJ:359:LYS:HA	45:KJ:359:LYS:HE2	1.79	0.64
45:KL:262:ARG:HG3	45:KL:262:ARG:HH11	1.61	0.64
44:KM:49:PHE:CZ	44:KM:55:GLU:HB2	2.32	0.64
45:LB:382:ALA:HB2	45:LB:415:MET:CE	2.26	0.64
45:LB:383:GLU:CA	45:LB:386:THR:HG22	2.28	0.64
44:LI:275:ILE:HD11	44:LI:368:LEU:CD2	2.28	0.64
45:LJ:362:LYS:NZ	45:LJ:363:MET:SD	2.71	0.64
45:LL:238:CYS:HB2	45:LL:318:ARG:HH12	1.63	0.64
44:LM:70:LEU:HD22	44:LM:110:ILE:HD12	1.79	0.64
44:LM:111:GLY:O	44:LM:115:VAL:HG12	1.96	0.64
45:LN:63:ALA:O	45:LN:89:ASN:ND2	2.31	0.64
45:LN:99:ASN:HA	45:LN:142:GLY:N	2.12	0.64
44:MA:223:THR:HG22	44:MA:224:TYR:H	1.63	0.64
44:MA:276:ILE:CD1	44:MA:281:ALA:HA	2.28	0.64
44:MC:137:VAL:HG22	44:MC:167:LEU:O	1.98	0.64
45:MD:257:LEU:HD21	45:MD:314:SER:CB	2.28	0.64
44:ME:408:TYR:HB3	44:ME:413:MET:CE	2.28	0.64
45:MH:313:ALA:HB1	45:MH:367:PHE:CE1	2.33	0.64
44:MI:318:MET:HA	44:MI:318:MET:CE	2.28	0.64
45:MJ:131:GLN:O	45:MJ:163:ILE:HG22	1.98	0.64
44:MM:237:SER:HA	44:MM:320:ARG:NH1	2.10	0.64
45:MN:52:ASN:O	45:MN:60:VAL:HG12	1.98	0.64
44:NC:51:THR:HG21	44:NC:243:ARG:HD2	1.79	0.64
44:NC:202:VAL:HA	44:NC:268:MET:O	1.97	0.64
44:NC:240:ALA:HB1	44:NC:356:ASN:ND2	2.11	0.64
44:NE:54:SER:HB3	44:NE:64:ARG:NH2	2.12	0.64
44:NE:224:TYR:HD1	45:NF:323:THR:HG21	1.62	0.64
45:NF:311:LEU:HD22	45:NF:344:TRP:CZ2	2.31	0.64
44:NK:60:LYS:HD3	44:OK:283:HIS:CD2	2.32	0.64
44:NM:421:ALA:O	44:NM:425:LEU:HB2	1.97	0.64
44:NM:434:GLU:O	44:NM:437:ILE:HG22	1.96	0.64
45:OD:28:HIS:NE2	45:OD:241:ARG:HD2	2.11	0.64
45:OD:410:GLU:HA	45:OD:413:SER:OG	1.96	0.64
44:OE:11:GLN:N	46:OE:501:GTP:O1B	2.25	0.64
44:OE:178:SER:HB3	45:OF:347:ASN:CG	2.17	0.64
45:OF:127:CYS:SG	45:OF:130:LEU:HB2	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:413:MET:CE	44:OG:413:MET:HA	2.27	0.64
44:OK:434:GLU:O	44:OK:437:ILE:HG22	1.97	0.64
44:PA:422:ARG:NH1	44:PA:426:ALA:HB2	2.12	0.64
44:PC:210:TYR:CD2	45:PD:324:LYS:HG3	2.33	0.64
45:PD:5:VAL:HB	45:PD:130:LEU:CD1	2.27	0.64
45:PD:166:THR:O	45:PD:199:CYS:HA	1.98	0.64
44:PE:329:ASN:ND2	45:PH:175:VAL:HG21	2.11	0.64
45:PF:51:TYR:HE1	45:PF:61:PRO:HG3	1.62	0.64
45:PF:225:LEU:O	45:PF:229:VAL:HG12	1.98	0.64
44:PG:67:PHE:HB2	44:PG:92:LEU:HD23	1.77	0.64
44:PG:176:GLN:HG3	45:PH:331:LEU:HD21	1.80	0.64
45:PJ:237:THR:HG23	45:PJ:241:ARG:HE	1.63	0.64
44:PK:306:ASP:OD1	44:PK:308:ARG:HG2	1.97	0.64
45:PL:178:THR:HB	45:PL:181:GLU:CG	2.22	0.64
44:PM:100:ALA:HB1	45:PN:252:LYS:HA	1.79	0.64
45:PN:192:LEU:CD1	45:PN:196:ALA:HB2	2.28	0.64
45:QB:350:LYS:HG3	44:QC:179:THR:O	1.98	0.64
45:QF:4:ILE:HD11	45:QF:50:TYR:OH	1.97	0.64
44:QK:271:SER:HA	44:QK:302:MET:SD	2.37	0.64
44:QK:319:TYR:CD2	44:QK:375:VAL:HB	2.32	0.64
44:QK:383:ALA:O	44:QK:386:GLU:HG2	1.97	0.64
45:QL:101:TRP:HD1	45:QL:145:SER:HG	1.44	0.64
44:QM:269:LEU:O	44:QM:379:SER:OG	2.14	0.64
45:QN:70:PRO:HG3	45:QN:92:PHE:CG	2.31	0.64
45:QN:376:GLU:HA	45:QN:379:LYS:HE2	1.78	0.64
44:RA:141:VAL:O	44:RA:147:SER:HB3	1.98	0.64
44:RA:234:VAL:HG13	44:RA:376:CYS:SG	2.37	0.64
45:RB:73:MET:HE3	45:RB:92:PHE:HB3	1.79	0.64
45:RB:163:ILE:CD1	45:RB:250:LEU:HD23	2.28	0.64
45:RD:64:ILE:HG21	45:RD:119:VAL:CG1	2.24	0.64
45:RD:69:GLU:OE1	45:RD:71:GLY:N	2.25	0.64
45:RH:318:ARG:HH11	45:RH:358:PRO:HG3	1.62	0.64
45:RJ:14:ASN:ND2	45:RJ:72:THR:HG21	2.12	0.64
45:RJ:141:GLY:HA3	48:RJ:501:GDP:O3A	1.98	0.64
44:RM:224:TYR:HA	44:RM:227:LEU:HG	1.78	0.64
44:RM:301:MET:SD	44:RM:303:ALA:HB3	2.38	0.64
45:RN:7:ILE:HB	45:RN:135:ILE:HD13	1.78	0.64
44:SA:88:HIS:CE1	44:SA:90:GLU:HG2	2.33	0.64
44:SA:326:LYS:HD3	45:SB:212:PHE:CZ	2.32	0.64
45:SB:271:ALA:CB	45:SB:292:GLN:HG3	2.28	0.64
45:SB:294:PHE:HE2	45:SB:333:VAL:HG21	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:214:THR:O	45:SF:216:LYS:HG3	1.97	0.64
44:SG:320:ARG:NH2	44:SG:360:PRO:HA	2.13	0.64
45:SJ:242:PHE:CG	45:SJ:356:ILE:HG13	2.33	0.64
44:SK:275:ILE:HD12	44:SK:368:LEU:CD1	2.18	0.64
44:SK:295:ALA:HB1	44:SK:377:MET:SD	2.37	0.64
44:SK:326:LYS:HZ1	45:SL:220:PRO:CD	2.09	0.64
45:SL:1:MET:O	45:SL:2:ARG:HG2	1.97	0.64
45:SL:217:LEU:HD12	45:SL:220:PRO:HD3	1.79	0.64
44:TC:169:PHE:HB3	44:TC:204:LEU:CD1	2.26	0.64
45:TD:233:MET:O	45:TD:236:VAL:HG12	1.98	0.64
44:TE:83:TYR:O	44:TE:86:LEU:HB3	1.96	0.64
45:TF:248:SER:HA	45:TF:252:LYS:HD2	1.78	0.64
44:TG:377:MET:O	44:TG:378:ILE:HD13	1.96	0.64
45:TH:324:LYS:HD2	44:TI:210:TYR:CG	2.33	0.64
44:TI:226:ASN:ND2	44:TI:367:ASP:OD2	2.31	0.64
44:TI:325:PRO:HA	44:TI:328:VAL:CG2	2.27	0.64
44:TK:434:GLU:O	44:TK:437:ILE:HG12	1.98	0.64
44:UA:60:LYS:HZ2	44:UA:61:HIS:H	1.46	0.64
44:UA:174:SER:HB2	44:UA:177:VAL:O	1.98	0.64
44:UA:203:MET:HG3	44:UA:303:ALA:HB2	1.78	0.64
44:UA:258:ASN:ND2	45:UB:178:THR:HG23	2.11	0.64
45:UF:159:TYR:HB3	45:UF:162:ARG:HB2	1.80	0.64
44:UG:209:ILE:HD11	44:UG:302:MET:CG	2.27	0.64
45:UH:86:ARG:CD	45:UH:87:PRO:HD2	2.24	0.64
45:UH:308:GLY:HA3	45:UH:372:THR:OG1	1.98	0.64
44:UI:135:PHE:CE2	44:UI:157:LEU:HD22	2.33	0.64
44:UI:311:LYS:HE2	44:UI:342:GLN:NE2	2.13	0.64
45:UJ:173:PRO:HD2	45:UJ:380:ARG:HD3	1.79	0.64
45:UN:100:ASN:HD22	45:UN:103:LYS:CB	2.11	0.64
45:VB:68:LEU:HD12	45:VB:93:GLY:HA3	1.80	0.64
44:VC:10:GLY:O	44:VC:14:ILE:HD12	1.98	0.64
45:VD:1:MET:O	45:VD:2:ARG:HG2	1.97	0.64
45:VF:83:GLN:HA	45:VF:83:GLN:OE1	1.96	0.64
45:VH:86:ARG:NH2	45:WH:281:TYR:HB2	2.13	0.64
44:VI:248:LEU:HB3	44:VI:355:ILE:CG1	2.28	0.64
45:VL:36:TYR:CE1	45:VL:44:LEU:HG	2.33	0.64
45:VN:36:TYR:OH	45:VN:43:GLN:HB3	1.98	0.64
44:WA:387:VAL:HA	44:WA:390:ARG:HG2	1.78	0.64
45:WB:294:PHE:CE1	45:WB:333:VAL:HG11	2.33	0.64
44:WC:216:ASN:HB3	44:WC:275:ILE:O	1.98	0.64
44:WC:228:ASN:O	44:WC:231:ILE:HG22	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:141:GLY:O	45:WF:145:SER:OG	2.05	0.64
45:WF:208:TYR:CE1	45:WF:225:LEU:HD11	2.32	0.64
44:WG:39:ASP:O	44:WG:41:THR:HA	1.98	0.64
45:WH:10:GLY:O	45:WH:14:ASN:ND2	2.30	0.64
45:WH:143:THR:N	48:WH:501:GDP:O1B	2.29	0.64
45:WL:41:ASP:OD1	45:WL:42:LEU:HD12	1.97	0.64
45:WN:289:LEU:O	45:WN:293:MET:HG3	1.97	0.64
45:WN:377:MET:O	45:WN:380:ARG:HG2	1.97	0.64
5:0D:192:ALA:HB3	44:FA:279:GLU:HG3	1.78	0.64
7:0F:189:VAL:HG13	44:FC:218:ASP:OD2	1.96	0.64
20:1J:248:LYS:HG2	44:II:218:ASP:OD2	1.97	0.64
22:1L:62:THR:OG1	44:BI:279:GLU:OE2	2.14	0.64
32:2I:58:LYS:HG3	45:FH:111:GLU:OE2	1.97	0.64
12:2S:216:LYS:NZ	45:AJ:413:SER:HB2	2.12	0.64
16:4X:110:LYS:HD3	44:LG:279:GLU:OE2	1.97	0.64
38:5E:123:ARG:CG	44:OA:370:LYS:HG2	2.21	0.64
11:5Q:77:VAL:HG23	11:5Q:132:ILE:O	1.98	0.64
35:5R:230:GLU:O	35:5R:233:GLU:HG2	1.96	0.64
41:6G:268:VAL:CB	44:VA:340:THR:HG22	2.28	0.64
35:6R:389:ASN:N	45:EN:276:ARG:HH22	1.93	0.64
35:6R:500:VAL:O	35:6R:500:VAL:CG1	2.45	0.64
35:7R:401:VAL:CG1	45:EB:276:ARG:HG3	2.28	0.64
43:8P:240:UNK:O	43:8P:244:UNK:N	2.30	0.64
44:AC:3:GLU:OE2	44:AC:130:THR:N	2.29	0.64
45:AD:242:PHE:HB3	45:AD:356:ILE:CD1	2.18	0.64
44:AE:3:GLU:HG3	44:AE:129:CYS:CB	2.28	0.64
45:AF:211:CYS:O	45:AF:215:LEU:HB2	1.97	0.64
45:AF:258:ILE:HG23	45:AF:263:LEU:O	1.97	0.64
44:AG:233:GLN:O	44:AG:237:SER:N	2.30	0.64
45:AH:229:VAL:O	45:AH:233:MET:HG2	1.96	0.64
45:AH:322:SER:O	45:AH:325:GLU:HG2	1.98	0.64
44:AI:288:VAL:HG11	44:AI:327:ASP:HB3	1.78	0.64
45:AJ:52:ASN:OD1	45:AJ:53:GLU:N	2.29	0.64
45:AN:32:PRO:HD3	45:AN:81:PHE:CE2	2.32	0.64
44:BC:89:PRO:HB2	44:CC:280:LYS:CD	2.28	0.64
44:BE:21:TRP:HZ2	44:BE:65:ALA:HB2	1.62	0.64
45:BF:355:ASP:O	45:BF:356:ILE:HD13	1.97	0.64
45:BJ:238:CYS:HB2	45:BJ:318:ARG:HH11	1.61	0.64
45:BJ:299:MET:HG3	45:BJ:305:PRO:HG3	1.78	0.64
45:BN:313:ALA:HB3	45:BN:349:ILE:CD1	2.25	0.64
44:CA:213:CYS:CA	44:CA:217:LEU:HB2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:257:LEU:HD11	45:CB:314:SER:HB2	1.78	0.64
44:CC:258:ASN:OD1	45:CD:179:VAL:HG22	1.96	0.64
44:CM:152:LEU:CG	44:CM:156:ARG:HH12	2.10	0.64
45:CN:183:TYR:HE2	45:CN:394:PHE:HB2	1.61	0.64
45:DB:375:GLN:OE1	45:DB:423:GLN:HB3	1.98	0.64
45:DD:6:HIS:NE2	45:DD:8:GLN:HB2	2.13	0.64
44:DE:138:PHE:CD1	44:DE:169:PHE:HB2	2.33	0.64
44:DG:184:PRO:O	44:DG:188:ILE:HG12	1.98	0.64
45:DH:97:ALA:HB2	45:DH:143:THR:HB	1.80	0.64
44:DI:268:MET:HB2	44:DI:379:SER:C	2.17	0.64
45:DJ:73:MET:HE1	45:DJ:92:PHE:HB3	1.80	0.64
45:DJ:345:ILE:O	45:DJ:345:ILE:HG23	1.96	0.64
44:DM:298:PRO:HA	44:DM:301:MET:HE1	1.78	0.64
44:EA:315:CYS:SG	44:EA:379:SER:HB3	2.37	0.64
45:EJ:108:GLU:O	45:EJ:111:GLU:HG3	1.97	0.64
44:EK:294:SER:O	44:EK:297:GLU:HG2	1.98	0.64
44:FA:257:THR:HA	45:FD:397:TRP:CE2	2.32	0.64
44:FA:269:LEU:HD12	44:FA:303:ALA:HB3	1.80	0.64
45:FB:110:ALA:HA	45:FB:113:ILE:CD1	2.27	0.64
45:FB:150:LEU:HD21	45:FB:154:LYS:HZ2	1.61	0.64
45:FF:111:GLU:OE2	45:FF:112:LEU:HB2	1.96	0.64
45:FF:130:LEU:HD21	45:FF:133:PHE:CZ	2.33	0.64
45:FF:302:ALA:HB3	45:FF:377:MET:CE	2.27	0.64
44:FG:297:GLU:CD	44:FG:299:ALA:H	2.01	0.64
45:FH:146:GLY:O	45:FH:149:THR:HG22	1.98	0.64
45:FJ:202:ILE:HG23	45:FJ:300:MET:CB	2.22	0.64
45:FJ:294:PHE:CD2	45:FJ:333:VAL:HG11	2.32	0.64
45:GB:329:GLN:HE22	45:GB:333:VAL:HG23	1.63	0.64
45:GF:376:GLU:HG3	45:GF:380:ARG:HH21	1.63	0.64
45:GJ:65:LEU:HD22	45:GJ:90:PHE:HE1	1.63	0.64
44:GK:12:GLY:O	44:GK:16:VAL:N	2.22	0.64
44:GM:301:MET:HE3	44:GM:307:PRO:HB3	1.77	0.64
45:GN:104:GLY:O	45:GN:109:GLY:HA3	1.97	0.64
45:GN:303:ALA:HB1	45:GN:373:ALA:O	1.98	0.64
45:GN:327:ASP:OD1	45:GN:328:GLU:N	2.31	0.64
45:HB:342:VAL:CG1	45:HB:345:ILE:HG23	2.26	0.64
44:HC:422:ARG:HH12	44:HC:426:ALA:HB2	1.62	0.64
45:HD:262:ARG:HD2	45:HD:262:ARG:O	1.98	0.64
45:HF:330:MET:HB3	45:HF:349:ILE:CD1	2.27	0.64
44:HG:137:VAL:O	44:HG:168:GLY:HA2	1.97	0.64
45:HH:303:ALA:HB2	45:HH:377:MET:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HJ:190:HIS:O	45:HJ:193:VAL:HG12	1.97	0.64
44:HK:317:MET:HG3	44:HK:319:TYR:HE1	1.62	0.64
44:HK:372:MET:C	44:HK:373:ARG:HD2	2.18	0.64
44:HM:215:ARG:NH2	44:HM:299:ALA:O	2.29	0.64
44:IA:142:GLY:HA2	44:IA:186:ASN:OD1	1.97	0.64
44:IE:286:LEU:N	44:IE:290:GLU:OE2	2.28	0.64
44:IG:127:ASP:OD1	44:IG:128:ASN:N	2.30	0.64
45:IJ:299:MET:HG3	45:IJ:305:PRO:HG3	1.80	0.64
45:IJ:406:MET:O	45:IJ:410:GLU:HG3	1.96	0.64
45:IL:313:ALA:HB3	45:IL:349:ILE:HD13	1.80	0.64
45:IN:314:SER:HB2	45:IN:350:LYS:HB3	1.79	0.64
44:JA:179:THR:HG23	45:JB:351:SER:OG	1.98	0.64
44:JA:213:CYS:O	44:JA:217:LEU:HB2	1.98	0.64
44:JE:108:TYR:HE2	44:JE:413:MET:SD	2.21	0.64
45:JH:406:MET:HG3	45:NH:306:ARG:HH21	1.63	0.64
44:JI:257:THR:HG22	45:JL:397:TRP:CG	2.33	0.64
45:KB:156:ARG:HH12	45:KB:160:PRO:HA	1.59	0.64
44:KC:256:GLN:HE22	44:KC:257:THR:HG23	1.62	0.64
44:KG:42:ILE:HD12	44:KG:42:ILE:H	1.61	0.64
44:KG:427:ALA:O	44:KG:431:ASP:N	2.30	0.64
44:LA:54:SER:HB3	44:LA:64:ARG:CZ	2.28	0.64
44:LA:93:ILE:CG2	44:LA:114:ILE:HD11	2.27	0.64
45:LB:206:ALA:O	45:LB:210:ILE:N	2.29	0.64
44:LE:285:GLN:HB2	44:LE:290:GLU:OE2	1.98	0.64
45:LJ:36:TYR:CZ	45:LJ:44:LEU:HD11	2.33	0.64
44:LM:220:GLU:HB2	44:LM:221:ARG:NH1	2.11	0.64
44:MA:188:ILE:HG23	44:MA:425:LEU:CD1	2.23	0.64
44:MC:276:ILE:HG12	44:MC:281:ALA:HA	1.78	0.64
45:MD:101:TRP:CZ3	45:MD:187:LEU:HD13	2.33	0.64
44:MG:212:ILE:HD12	44:MG:275:ILE:HD12	1.78	0.64
44:MK:352:LYS:HA	45:MN:177:ASP:O	1.97	0.64
44:MK:425:LEU:O	44:MK:429:GLU:HG3	1.97	0.64
45:ML:31:ASP:OD2	45:ML:37:HIS:ND1	2.31	0.64
44:MM:406:HIS:HA	44:MM:409:VAL:HG12	1.80	0.64
45:NB:50:TYR:OH	45:NB:237:THR:HG21	1.97	0.64
45:NB:166:THR:OG1	45:NB:199:CYS:SG	2.55	0.64
44:NC:328:VAL:HG11	44:NC:353:VAL:CG2	2.26	0.64
45:NF:204:ASN:HA	45:NF:207:LEU:HD13	1.79	0.64
44:NG:98:ASP:OD1	44:NG:99:ALA:N	2.30	0.64
44:NG:271:SER:OG	44:NG:301:MET:SD	2.51	0.64
44:NI:189:LEU:HD23	44:NI:421:ALA:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:212:ILE:HD12	44:NI:300:ASN:OD1	1.98	0.64
44:NK:298:PRO:HG3	44:NK:308:ARG:NE	2.13	0.64
44:NK:419:SER:O	44:NK:423:GLU:HG2	1.97	0.64
45:NL:20:PHE:CE1	45:NL:24:ILE:HD11	2.33	0.64
44:NM:141:VAL:HG11	44:NM:172:TYR:CD1	2.29	0.64
45:NN:139:LEU:HG	45:NN:168:SER:HB3	1.77	0.64
45:NN:269:GLY:N	45:NN:367:PHE:HB3	2.13	0.64
44:OA:386:GLU:O	44:OA:390:ARG:HG2	1.98	0.64
44:OC:234:VAL:HG13	44:OC:376:CYS:SG	2.37	0.64
45:OD:31:ASP:OD2	45:OD:37:HIS:ND1	2.31	0.64
45:OD:110:ALA:CA	45:OD:113:ILE:HG22	2.26	0.64
45:OH:154:LYS:O	45:OH:158:GLU:HG3	1.96	0.64
45:OH:285:THR:CG2	45:OH:287:PRO:HD2	2.24	0.64
44:OI:121:ARG:NH2	44:OI:125:LEU:HD21	2.13	0.64
44:OK:167:LEU:HA	44:OK:200:VAL:HG22	1.80	0.64
44:OK:394:LYS:NZ	45:OL:346:PRO:HG3	2.13	0.64
45:ON:32:PRO:O	45:ON:84:LEU:HG	1.98	0.64
44:PA:7:ILE:HB	44:PA:137:VAL:HG23	1.79	0.64
44:PA:181:VAL:HG22	45:PB:256:ASN:OD1	1.97	0.64
45:PF:256:ASN:HD22	45:PF:350:LYS:HD2	1.62	0.64
44:PG:439:THR:OG1	45:PJ:390:ARG:NH2	2.30	0.64
45:PH:203:ASP:OD2	45:PH:301:CYS:HA	1.98	0.64
45:PJ:244:GLY:HA2	45:PJ:355:ASP:OD2	1.98	0.64
45:PL:86:ARG:HG2	45:PL:89:ASN:OD1	1.97	0.64
45:PL:242:PHE:HD2	45:PL:356:ILE:HG13	1.63	0.64
45:PN:381:VAL:HG22	45:PN:384:GLN:NE2	2.13	0.64
44:QA:109:THR:HG22	44:QA:110:ILE:HG23	1.79	0.64
44:QA:317:MET:CA	44:QA:377:MET:HA	2.14	0.64
45:QB:30:ILE:HD13	45:QB:36:TYR:HD1	1.61	0.64
45:QB:311:LEU:HA	45:QB:342:VAL:HG12	1.80	0.64
44:QC:19:ALA:HB1	44:QC:229:ARG:NH1	2.13	0.64
45:QD:256:ASN:HB3	44:QE:181:VAL:HG22	1.78	0.64
45:QD:415:MET:O	45:QD:419:VAL:HG23	1.98	0.64
45:QF:116:VAL:HA	45:QF:119:VAL:HG12	1.79	0.64
44:QK:105:ARG:O	44:QK:110:ILE:HG12	1.98	0.64
45:QL:313:ALA:HB3	45:QL:349:ILE:CA	2.25	0.64
45:QL:322:SER:O	44:QM:221:ARG:NH1	2.29	0.64
44:QM:317:MET:N	44:QM:352:LYS:O	2.27	0.64
45:RB:251:ARG:NH2	44:RC:98:ASP:O	2.31	0.64
45:RD:282:ARG:HA	45:RD:282:ARG:NE	2.11	0.64
45:RD:315:ALA:C	45:RD:316:LEU:HD12	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:370:ASN:OD1	45:RD:422:TYR:OH	2.15	0.64
45:RF:25:SER:CB	45:RF:30:ILE:HB	2.28	0.64
45:RF:130:LEU:HD21	45:RF:133:PHE:CE1	2.33	0.64
45:RF:251:ARG:O	45:RF:255:VAL:HG23	1.98	0.64
45:RF:357:PRO:HD2	45:RF:357:PRO:O	1.98	0.64
44:RG:88:HIS:HB3	44:RG:91:GLN:HG2	1.78	0.64
44:RG:257:THR:HG22	45:RH:397:TRP:CZ2	2.33	0.64
44:RG:317:MET:HE2	44:RG:377:MET:HB2	1.78	0.64
45:RH:342:VAL:HG23	45:RH:345:ILE:HG22	1.79	0.64
45:RJ:293:MET:CG	45:RJ:367:PHE:HB2	2.27	0.64
45:RJ:383:GLU:O	45:RJ:386:THR:HG22	1.97	0.64
45:RN:20:PHE:O	45:RN:24:ILE:HG12	1.96	0.64
45:RN:117:LEU:HA	45:RN:120:VAL:HG23	1.79	0.64
44:SA:212:ILE:HG13	44:SA:215:ARG:HH22	1.62	0.64
45:SB:237:THR:CG2	45:SB:250:LEU:HD21	2.27	0.64
45:SD:49:VAL:HG11	45:SD:241:ARG:CG	2.25	0.64
45:SD:116:VAL:O	45:SD:119:VAL:HG12	1.96	0.64
45:SD:163:ILE:HD13	45:SD:251:ARG:CD	2.27	0.64
44:SE:316:SER:HB3	44:SE:378:ILE:HB	1.79	0.64
45:SH:67:ASP:OD1	45:SH:68:LEU:N	2.31	0.64
45:SJ:22:GLU:HG2	45:SJ:81:PHE:CB	2.27	0.64
45:SJ:201:VAL:HG22	45:SJ:266:PHE:O	1.98	0.64
44:SK:70:LEU:HB3	44:SK:97:GLU:O	1.97	0.64
44:SM:101:ASN:HA	44:SM:144:GLY:CA	2.27	0.64
44:SM:402:ARG:HB2	44:SM:405:VAL:HG21	1.78	0.64
45:TD:46:ARG:HH22	44:TE:72:PRO:HB2	1.62	0.64
45:TH:324:LYS:CB	44:TI:222:PRO:HG2	2.24	0.64
45:TL:1:MET:O	45:TL:2:ARG:HG2	1.98	0.64
44:TM:70:LEU:HD13	44:TM:110:ILE:HG21	1.78	0.64
44:TM:260:VAL:HG13	44:TM:260:VAL:O	1.96	0.64
45:TN:42:LEU:CA	45:TN:45:GLU:HG3	2.27	0.64
44:UA:208:ALA:HA	44:UA:304:LYS:HZ1	1.63	0.64
45:UD:327:ASP:OD1	44:UE:179:THR:OG1	2.15	0.64
44:UE:385:ALA:HA	44:UE:388:PHE:HB2	1.78	0.64
45:UF:54:ALA:HB3	45:UF:58:ARG:HG3	1.80	0.64
44:UG:238:LEU:HD23	44:UG:238:LEU:O	1.98	0.64
44:UI:387:VAL:HG12	44:UI:390:ARG:HH11	1.62	0.64
44:UK:33:ASP:HA	44:UK:85:GLN:HB3	1.79	0.64
45:UL:68:LEU:HD23	45:UL:97:ALA:HB2	1.77	0.64
45:UL:350:LYS:HG3	44:UM:179:THR:O	1.97	0.64
44:VC:200:VAL:HG13	44:VC:268:MET:SD	2.37	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:410:GLU:O	45:VD:413:SER:OG	2.13	0.64
45:VF:60:VAL:HG11	45:VF:86:ARG:HE	1.62	0.64
45:VF:192:LEU:CD1	45:VF:196:ALA:HB2	2.27	0.64
44:VI:185:TYR:OH	44:VI:398:MET:HB3	1.98	0.64
45:VJ:395:LEU:O	45:VJ:399:THR:HG23	1.97	0.64
44:WA:88:HIS:HB2	44:WA:91:GLN:NE2	2.12	0.64
44:WA:268:MET:HB2	44:WA:380:ASN:HA	1.79	0.64
45:WB:74:ASP:O	45:WB:77:ARG:NH1	2.31	0.64
45:WD:51:TYR:CE1	45:WD:61:PRO:HG3	2.32	0.64
44:WE:11:GLN:NE2	45:WF:247:ASN:H	1.95	0.64
45:WF:101:TRP:NE1	45:WF:145:SER:O	2.30	0.64
45:WF:286:VAL:HG11	45:WF:325:GLU:OE1	1.96	0.64
45:WF:294:PHE:CE2	45:WF:333:VAL:HG21	2.33	0.64
44:WG:210:TYR:HE1	44:WG:227:LEU:HD11	1.62	0.64
45:WH:173:PRO:CD	45:WH:380:ARG:HD3	2.27	0.64
45:WJ:61:PRO:CG	45:WJ:84:LEU:HB3	2.27	0.64
44:WK:271:SER:HA	44:WK:302:MET:HG3	1.78	0.64
45:WN:334:GLN:HG3	45:WN:341:PHE:CD2	2.32	0.64
7:OF:77:LYS:O	45:ED:320:ARG:NH2	2.30	0.64
17:1B:1:MET:HG3	45:LD:359:LYS:HA	1.79	0.64
20:1J:198:ARG:HD3	44:IG:370:LYS:CD	2.20	0.64
22:1L:704:ARG:HH22	45:BF:36:TYR:HB3	1.61	0.64
25:1P:277:LYS:HZ3	44:TE:282:TYR:HB2	1.62	0.64
26:1R:152:LEU:HD12	45:AF:78:ALA:O	1.96	0.64
21:2K:375:VAL:HG11	44:GG:372:MET:HE1	1.80	0.64
14:2U:441:MET:HE3	44:WI:364:PRO:HB3	1.78	0.64
32:3I:263:PHE:CE1	45:GJ:294:PHE:HB3	2.31	0.64
28:4C:218:ARG:NH1	45:KN:320:ARG:HH11	1.95	0.64
34:4F:8:TYR:OH	44:GI:85:GLN:HA	1.96	0.64
37:5D:19:ARG:HB2	45:KN:418:LEU:CA	2.28	0.64
38:5G:46:LEU:HD23	44:OG:324:VAL:HG23	1.80	0.64
38:5G:198:PHE:HB3	44:LK:393:HIS:CE1	2.33	0.64
11:5Q:22:LEU:HG	11:5Q:22:LEU:O	1.98	0.64
35:5R:513:HIS:HA	35:5R:516:MET:CB	2.27	0.64
35:7R:94:ARG:HH11	44:AA:41:THR:HG21	1.62	0.64
44:AA:407:TRP:CH2	45:AB:258:ILE:HB	2.32	0.64
45:AB:208:TYR:CE1	45:AB:225:LEU:HD11	2.33	0.64
45:AB:253:LEU:O	45:AB:257:LEU:HD13	1.96	0.64
44:AC:5:ILE:HD11	44:AC:129:CYS:SG	2.37	0.64
44:AC:68:LEU:HD22	44:AC:153:LEU:HD11	1.80	0.64
44:AC:102:ASN:OD1	44:AC:105:ARG:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:247:ALA:HB1	45:AF:222:TYR:HD2	1.63	0.64
45:AD:73:MET:CE	45:AD:92:PHE:HB3	2.28	0.64
45:AD:257:LEU:HA	45:AD:312:THR:HG21	1.80	0.64
45:AD:303:ALA:H	45:AD:377:MET:CE	2.10	0.64
45:AH:8:GLN:HE21	45:AH:65:LEU:HG	1.63	0.64
45:AL:317:PHE:HB2	45:AL:353:ILE:HD13	1.79	0.64
45:AN:178:THR:OG1	45:AN:181:GLU:HG3	1.97	0.64
45:AN:201:VAL:HG22	45:AN:266:PHE:O	1.97	0.64
45:AN:405:GLU:OE1	45:AN:405:GLU:N	2.28	0.64
44:BA:231:ILE:HG22	44:BA:235:ILE:CD1	2.28	0.64
44:BA:340:THR:HG23	44:BA:341:ILE:HG13	1.79	0.64
45:BD:7:ILE:HG22	45:BD:64:ILE:HB	1.78	0.64
45:BD:211:CYS:HB3	45:BD:217:LEU:CG	2.28	0.64
44:BE:178:SER:HB2	44:BE:183:GLU:OE2	1.98	0.64
44:BE:320:ARG:HD2	44:BE:360:PRO:HD3	1.79	0.64
44:BE:352:LYS:HA	45:BH:177:ASP:O	1.97	0.64
45:BF:68:LEU:HD23	45:BF:97:ALA:N	2.13	0.64
44:BG:326:LYS:CE	45:BJ:208:TYR:HD2	2.10	0.64
44:BI:269:LEU:HD23	44:BI:269:LEU:H	1.62	0.64
45:BJ:309:ARG:NH1	45:BJ:342:VAL:HA	2.12	0.64
45:BL:1:MET:O	45:BL:2:ARG:HG2	1.97	0.64
45:BN:258:ILE:HG13	45:BN:263:LEU:O	1.98	0.64
44:CA:183:GLU:N	44:CA:184:PRO:HD2	2.13	0.64
45:CB:167:PHE:CZ	45:CB:233:MET:HG3	2.33	0.64
45:CH:398:TYR:O	45:CH:403:MET:HB2	1.97	0.64
44:CI:288:VAL:HA	44:CI:291:ILE:HG12	1.79	0.64
44:CI:288:VAL:HG11	44:CI:327:ASP:HB3	1.78	0.64
45:CJ:4:ILE:HD11	45:CJ:50:TYR:OH	1.96	0.64
45:CJ:21:TRP:CZ3	45:CJ:61:PRO:HB3	2.33	0.64
44:CM:104:ALA:HB2	44:CM:413:MET:HE1	1.80	0.64
44:CM:316:SER:N	44:CM:378:ILE:O	2.31	0.64
45:CN:86:ARG:NH2	45:CN:89:ASN:OD1	2.29	0.64
44:DC:184:PRO:O	44:DC:188:ILE:HG12	1.97	0.64
44:DC:248:LEU:CB	44:DC:355:ILE:HD12	2.28	0.64
44:DE:98:ASP:OD1	44:DE:99:ALA:N	2.31	0.64
44:DE:141:VAL:HG12	44:DE:171:ILE:O	1.98	0.64
44:DG:141:VAL:CG2	44:DG:187:SER:HA	2.28	0.64
45:DH:270:PHE:HB3	45:DH:273:LEU:CD1	2.26	0.64
45:DJ:51:TYR:CE1	45:DJ:61:PRO:HG3	2.33	0.64
45:DJ:118:ASP:HA	45:DJ:121:ARG:NH1	2.12	0.64
44:DK:141:VAL:HG11	44:DK:172:TYR:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:22:GLU:HG3	44:DM:83:TYR:HE2	1.63	0.64
44:EA:1:MET:O	44:EA:131:GLY:HA3	1.98	0.64
44:EA:121:ARG:O	44:EA:125:LEU:HG	1.96	0.64
45:EB:62:ARG:HG3	45:EB:123:GLU:OE1	1.98	0.64
44:EC:320:ARG:HG3	44:EC:360:PRO:HG3	1.80	0.64
44:EE:89:PRO:HD3	44:FC:283:HIS:CE1	2.32	0.64
44:EE:108:TYR:CA	44:EE:112:LYS:HE3	2.25	0.64
44:EK:297:GLU:OE2	44:EK:300:ASN:ND2	2.31	0.64
45:EN:70:PRO:HA	45:EN:73:MET:HB2	1.78	0.64
44:FA:49:PHE:HB2	44:FA:53:PHE:HD2	1.63	0.64
44:FE:301:MET:N	44:FE:301:MET:HE2	2.12	0.64
44:FG:326:LYS:HG3	44:FG:327:ASP:N	2.13	0.64
44:FG:407:TRP:HZ3	45:FH:255:VAL:HA	1.60	0.64
45:FJ:8:GLN:NE2	45:FJ:14:ASN:HA	2.13	0.64
45:FJ:21:TRP:CZ2	45:FJ:63:ALA:HB2	2.33	0.64
44:FK:324:VAL:CG1	44:FK:326:LYS:HE2	2.28	0.64
44:FM:99:ALA:HA	44:FM:105:ARG:CZ	2.28	0.64
45:FN:46:ARG:HG3	45:FN:46:ARG:O	1.97	0.64
44:GC:60:LYS:HD2	44:GC:85:GLN:HE22	1.63	0.64
44:GC:108:TYR:CE2	44:GC:413:MET:HG3	2.33	0.64
44:GE:200:VAL:HG13	44:GE:268:MET:SD	2.38	0.64
45:GF:193:VAL:HA	45:GF:264:HIS:CE1	2.32	0.64
44:GG:312:TYR:O	44:GG:344:VAL:HG23	1.97	0.64
44:GM:14:ILE:HG22	44:GM:18:ASN:ND2	2.13	0.64
44:GM:141:VAL:HG12	44:GM:171:ILE:O	1.96	0.64
45:GN:167:PHE:HA	45:GN:200:MET:HB2	1.79	0.64
45:GN:303:ALA:HB2	45:GN:377:MET:CE	2.27	0.64
44:HA:135:PHE:O	44:HA:136:LEU:HD23	1.96	0.64
44:HA:231:ILE:O	44:HA:235:ILE:HG12	1.98	0.64
44:HA:271:SER:HA	44:HA:302:MET:SD	2.38	0.64
45:HB:139:LEU:CD1	45:HB:168:SER:HB3	2.28	0.64
45:HB:317:PHE:CE1	45:HB:326:VAL:HG13	2.32	0.64
44:HC:105:ARG:O	44:HC:110:ILE:HG12	1.97	0.64
45:HD:97:ALA:HA	45:HD:103:LYS:HG2	1.79	0.64
45:HF:34:GLY:O	45:HF:58:ARG:HA	1.97	0.64
45:HF:42:LEU:HD22	45:HF:356:ILE:HD11	1.78	0.64
44:HI:253:THR:O	44:HI:256:GLN:NE2	2.31	0.64
44:HM:101:ASN:ND2	45:HN:252:LYS:HD2	2.13	0.64
44:HM:115:VAL:HB	44:HM:152:LEU:HD21	1.78	0.64
44:HM:222:PRO:CD	45:HN:324:LYS:HD3	2.27	0.64
45:IB:136:THR:HG22	45:IB:167:PHE:CD1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:304:ASP:OD1	45:ID:306:ARG:HG2	1.98	0.64
44:IG:53:PHE:HB3	44:IG:61:HIS:HB3	1.80	0.64
44:IG:315:CYS:SG	44:IG:379:SER:HB3	2.36	0.64
44:II:358:GLN:NE2	44:II:359:PRO:HD2	2.11	0.64
45:IJ:86:ARG:NH2	44:JG:280:LYS:HA	2.12	0.64
45:IJ:86:ARG:HH21	45:IJ:87:PRO:CG	2.10	0.64
44:IK:270:SER:CB	44:IK:378:ILE:HD13	2.26	0.64
44:IM:310:GLY:HA3	44:IM:382:THR:OG1	1.96	0.64
44:JA:396:ASP:OD1	44:JA:397:LEU:N	2.31	0.64
45:JB:4:ILE:HG22	45:JB:131:GLN:HB3	1.80	0.64
45:JB:332:ASN:O	45:JB:336:LYS:HG2	1.98	0.64
45:JD:296:ALA:HA	45:JD:299:MET:CE	2.27	0.64
44:JE:287:SER:HA	44:JE:373:ARG:HH11	1.61	0.64
45:JH:406:MET:HE3	45:NH:306:ARG:HE	1.61	0.64
44:JI:346:TRP:CZ3	44:JI:347:CYS:HB2	2.32	0.64
45:JJ:130:LEU:HD21	45:JJ:133:PHE:CE1	2.33	0.64
44:JM:72:PRO:HG2	45:JN:2:ARG:HH12	1.63	0.64
45:KD:45:GLU:OE1	45:KD:46:ARG:HG2	1.98	0.64
45:KD:345:ILE:O	45:KD:345:ILE:HG23	1.98	0.64
45:KF:187:LEU:HD11	45:KF:408:PHE:CE1	2.32	0.64
44:KG:276:ILE:HD11	44:KG:280:LYS:CD	2.27	0.64
44:KI:269:LEU:H	44:KI:269:LEU:HD23	1.61	0.64
45:KJ:350:LYS:HG2	45:KJ:351:SER:H	1.63	0.64
44:KK:30:ILE:HD12	44:KK:36:MET:HG2	1.79	0.64
45:KL:328:GLU:HG3	45:KL:329:GLN:NE2	2.05	0.64
45:KN:242:PHE:CG	45:KN:356:ILE:HG13	2.32	0.64
44:LA:95:GLY:O	44:LA:96:LYS:HE2	1.98	0.64
45:LD:392:LYS:HA	45:LD:395:LEU:HD12	1.80	0.64
44:LE:413:MET:CG	44:LE:417:GLU:HG3	2.28	0.64
45:LF:103:LYS:HA	45:LF:107:THR:HG22	1.78	0.64
45:LF:217:LEU:HD11	45:LF:220:PRO:HG3	1.79	0.64
44:LG:338:LYS:HG3	44:LG:340:THR:H	1.61	0.64
44:LI:406:HIS:CD2	45:LJ:261:PRO:HD3	2.32	0.64
45:LL:45:GLU:O	45:LL:46:ARG:HD2	1.97	0.64
45:LL:345:ILE:HG13	45:LL:345:ILE:O	1.98	0.64
44:LM:176:GLN:NE2	44:LM:207:GLU:OE2	2.31	0.64
45:MB:360:GLY:O	45:MB:361:LEU:HD23	1.96	0.64
44:MC:221:ARG:HD3	44:MC:221:ARG:O	1.98	0.64
45:MH:145:SER:O	45:MH:149:THR:HG23	1.97	0.64
44:MK:156:ARG:HE	44:MK:159:VAL:HG11	1.63	0.64
45:ML:167:PHE:CE2	45:ML:233:MET:HG2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:255:PHE:O	44:MM:258:ASN:N	2.29	0.64
44:NA:237:SER:HA	44:NA:320:ARG:NH1	2.12	0.64
44:NA:252:ILE:HA	44:NA:255:PHE:CD2	2.33	0.64
45:ND:53:GLU:O	45:OD:283:ALA:HB2	1.98	0.64
45:ND:178:THR:HB	45:ND:181:GLU:CG	2.26	0.64
44:NE:134:GLY:HA3	44:NE:165:SER:OG	1.98	0.64
44:NG:169:PHE:CD1	44:NG:202:VAL:HG22	2.33	0.64
45:NJ:210:ILE:CD1	45:NJ:300:MET:HG3	2.27	0.64
45:NL:148:GLY:O	45:NL:152:ILE:HD12	1.97	0.64
44:NM:107:HIS:O	44:NM:112:LYS:NZ	2.30	0.64
44:NM:183:GLU:HG2	44:NM:184:PRO:HD3	1.78	0.64
45:OD:180:VAL:HG12	45:OD:183:TYR:HB2	1.79	0.64
45:OD:385:PHE:CE2	45:OD:412:GLU:HB3	2.32	0.64
45:OF:200:MET:SD	45:OF:266:PHE:HB2	2.37	0.64
44:OK:254:GLU:HA	44:OK:257:THR:HB	1.80	0.64
44:OM:369:ALA:O	44:OM:371:VAL:HG23	1.97	0.64
45:ON:257:LEU:HB3	45:ON:266:PHE:CZ	2.33	0.64
45:ON:392:LYS:HB3	45:ON:395:LEU:HD12	1.80	0.64
44:PA:5:ILE:HG13	44:PA:64:ARG:CZ	2.28	0.64
45:PD:40:SER:OG	45:PD:43:GLN:HB2	1.97	0.64
45:PD:249:ASP:OD1	45:PD:252:LYS:N	2.23	0.64
45:PF:282:ARG:HG2	45:PF:283:ALA:N	2.13	0.64
44:PG:256:GLN:HA	44:PG:259:LEU:HD23	1.80	0.64
45:PH:282:ARG:NH2	45:PH:288:GLU:HB3	2.10	0.64
44:PM:169:PHE:CD1	44:PM:202:VAL:HG11	2.31	0.64
45:PN:19:LYS:HG3	45:PN:226:ASN:CB	2.26	0.64
45:QB:55:THR:CG2	45:RB:284:LEU:HG	2.28	0.64
45:QB:173:PRO:CG	45:QB:380:ARG:HD3	2.27	0.64
45:QB:406:MET:O	45:QB:410:GLU:HG3	1.96	0.64
44:QC:251:ASP:O	44:QC:254:GLU:N	2.31	0.64
44:QE:89:PRO:CG	44:RE:280:LYS:HG3	2.19	0.64
45:QF:134:GLN:HA	45:QF:165:GLU:HB2	1.80	0.64
45:QH:63:ALA:O	45:QH:89:ASN:ND2	2.30	0.64
44:QM:203:MET:CE	44:QM:384:ILE:HD11	2.27	0.64
45:QN:134:GLN:HB2	45:QN:167:PHE:CE1	2.24	0.64
44:RA:70:LEU:HD13	44:RA:110:ILE:CD1	2.27	0.64
45:RB:64:ILE:HD12	45:RB:120:VAL:HG22	1.77	0.64
45:RD:246:LEU:CD1	45:RD:353:ILE:HD13	2.28	0.64
44:RE:377:MET:O	44:RE:378:ILE:HD13	1.98	0.64
45:RH:383:GLU:O	45:RH:386:THR:HG22	1.98	0.64
44:RI:428:LEU:HG	44:RI:432:TYR:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:109:GLY:HA3	45:RJ:147:MET:CE	2.26	0.64
45:RL:19:LYS:HB3	45:RL:230:SER:OG	1.97	0.64
45:RL:285:THR:O	45:RL:289:LEU:HG	1.97	0.64
44:RM:280:LYS:HA	44:RM:283:HIS:HD2	1.63	0.64
45:RN:237:THR:OG1	45:RN:240:LEU:HB3	1.97	0.64
44:SC:276:ILE:HG12	44:SC:281:ALA:HA	1.80	0.64
45:SF:185:ALA:O	45:SF:189:VAL:HG23	1.98	0.64
45:SF:244:GLY:HA2	45:SF:355:ASP:OD2	1.96	0.64
45:SH:102:ALA:HB2	45:SH:398:TYR:HD1	1.61	0.64
45:SH:103:LYS:HA	45:SH:107:THR:HG23	1.80	0.64
44:SI:136:LEU:HD23	44:SI:167:LEU:HB2	1.78	0.64
44:SK:132:LEU:HD22	44:SK:164:LYS:CE	2.28	0.64
44:SM:390:ARG:HB2	44:SM:394:LYS:HZ1	1.62	0.64
45:TB:377:MET:CE	45:TB:380:ARG:HH22	2.11	0.64
45:TD:21:TRP:CZ3	45:TD:61:PRO:HB3	2.33	0.64
45:TD:99:ASN:C	45:TD:142:GLY:HA3	2.17	0.64
45:TD:116:VAL:HA	45:TD:119:VAL:CG1	2.28	0.64
44:TE:226:ASN:HD22	44:TE:229:ARG:HH12	1.43	0.64
44:TE:258:ASN:HD21	45:TF:178:THR:HG23	1.63	0.64
44:TE:372:MET:SD	44:TE:373:ARG:NH1	2.63	0.64
45:TF:404:ASP:OD1	45:TF:407:GLU:HG3	1.98	0.64
44:TG:279:GLU:O	44:TG:280:LYS:HD3	1.98	0.64
44:TG:420:GLU:HA	44:TG:423:GLU:CG	2.26	0.64
44:TI:188:ILE:HG23	44:TI:425:LEU:CD1	2.28	0.64
44:TI:326:LYS:HG2	45:TJ:220:PRO:HD2	1.80	0.64
45:TJ:55:THR:HG23	45:UJ:283:ALA:HA	1.79	0.64
44:TK:51:THR:HG21	44:TK:243:ARG:HB3	1.80	0.64
44:TK:344:VAL:HG11	44:TK:346:TRP:CE2	2.32	0.64
45:TL:347:ASN:ND2	44:TM:176:GLN:O	2.25	0.64
44:TM:13:GLY:HA2	44:TM:16:VAL:HG12	1.79	0.64
44:TM:121:ARG:O	44:TM:124:LYS:N	2.28	0.64
45:TN:113:ILE:HG13	45:TN:116:VAL:HG11	1.80	0.64
45:UB:116:VAL:O	45:UB:119:VAL:HG12	1.98	0.64
44:UE:137:VAL:HG12	44:UE:167:LEU:O	1.96	0.64
44:UG:206:ASN:HD22	46:UG:501:GTP:HN22	1.45	0.64
44:UI:171:ILE:HG23	44:UI:204:LEU:O	1.98	0.64
45:UJ:46:ARG:HH21	44:UK:73:THR:HA	1.63	0.64
45:UJ:52:ASN:OD1	45:UJ:62:ARG:NH2	2.30	0.64
45:UJ:130:LEU:HG	45:UJ:162:ARG:CD	2.28	0.64
45:UJ:350:LYS:HG2	45:UJ:351:SER:N	2.12	0.64
45:UL:287:PRO:HA	45:UL:290:THR:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UM:141:VAL:HG11	44:UM:172:TYR:HD1	1.62	0.64
44:VC:223:THR:HB	45:VD:322:SER:CB	2.26	0.64
45:VD:329:GLN:O	45:VD:333:VAL:HG23	1.98	0.64
45:VL:210:ILE:O	45:VL:214:THR:OG1	2.11	0.64
45:VN:313:ALA:O	45:VN:350:LYS:N	2.30	0.64
45:WB:138:SER:HA	45:WB:169:VAL:HB	1.80	0.64
45:WB:395:LEU:HG	45:WB:399:THR:HG23	1.79	0.64
45:WD:169:VAL:HG13	45:WD:202:ILE:HG22	1.80	0.64
44:WE:312:TYR:O	44:WE:344:VAL:HG23	1.97	0.64
44:WG:290:GLU:HA	44:WG:293:ASN:HD22	1.61	0.64
44:WI:323:VAL:CG1	44:WI:373:ARG:HD3	2.28	0.64
44:WK:54:SER:HB3	44:WK:64:ARG:HD2	1.80	0.64
44:WK:165:SER:C	44:WK:166:LYS:HD3	2.18	0.64
44:WK:272:TYR:CD1	44:WK:376:CYS:HB2	2.32	0.64
45:WL:113:ILE:HD13	45:WL:150:LEU:CD2	2.19	0.64
44:WM:88:HIS:HE1	44:WM:90:GLU:HG2	1.62	0.64
1:6H:245:HIS:HB3	45:FF:223:GLY:HA3	1.80	0.64
2:0A:129:PRO:HD3	45:AB:362:LYS:NZ	2.12	0.64
11:0Q:102:ARG:NH2	44:AA:431:ASP:OD1	2.30	0.64
5:1D:74:GLN:HA	45:DF:55:THR:OG1	1.97	0.64
19:1I:75:GLU:OE1	45:JD:276:ARG:NH1	2.22	0.64
22:1L:643:ARG:HB3	45:CD:362:LYS:NZ	2.12	0.64
26:1R:505:TYR:HB2	44:EC:39:ASP:HB3	1.78	0.64
5:2D:223:ILE:O	35:5R:506:LEU:HD12	1.98	0.64
32:2I:37:LEU:O	44:FG:96:LYS:HE3	1.98	0.64
13:2T:233:TRP:HB3	45:MJ:392:LYS:HE2	1.80	0.64
15:2V:69:SER:HB3	45:MF:337:ASN:OD1	1.98	0.64
16:2X:26:GLU:HA	45:ML:276:ARG:HH22	1.61	0.64
37:5B:39:ARG:HD2	44:KC:264:ARG:NH2	2.11	0.64
39:5I:35:ILE:H	39:5I:35:ILE:HD12	1.62	0.64
11:5Q:15:TYR:HA	11:5Q:164:ARG:NH1	2.13	0.64
36:5S:227:LYS:HG2	36:5S:228:TYR:CE1	2.33	0.64
41:6G:211:SER:HB2	41:6G:215:GLN:OE1	1.98	0.64
35:7R:245:LEU:HD12	35:7R:249:LEU:HB2	1.79	0.64
44:AA:13:GLY:HA2	44:AA:16:VAL:HG12	1.79	0.64
44:AA:274:PRO:HB2	44:AA:276:ILE:CD1	2.27	0.64
44:AA:398:MET:HE2	45:AB:345:ILE:CA	2.23	0.64
44:AE:331:SER:O	44:AE:334:THR:HG22	1.98	0.64
45:AF:204:ASN:ND2	48:AF:501:GDP:O2'	2.31	0.64
45:AF:285:THR:O	45:AF:287:PRO:HD2	1.97	0.64
44:AG:215:ARG:NH2	44:AG:299:ALA:HB1	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:288:VAL:O	44:AG:291:ILE:HG12	1.98	0.64
44:AI:328:VAL:CG1	44:AI:353:VAL:HG21	2.24	0.64
45:AL:203:ASP:O	45:AL:207:LEU:HD23	1.98	0.64
44:AM:384:ILE:O	44:AM:387:VAL:HG22	1.98	0.64
45:AN:174:LYS:HD2	45:AN:175:VAL:HG13	1.79	0.64
44:BA:188:ILE:HG23	44:BA:425:LEU:HD12	1.80	0.64
44:BA:221:ARG:CZ	45:BB:325:GLU:CB	2.75	0.64
44:BA:229:ARG:HB2	44:BA:229:ARG:NH1	2.12	0.64
45:BF:164:MET:HE3	45:BF:164:MET:HA	1.78	0.64
44:CA:184:PRO:CB	44:CA:395:PHE:HB2	2.26	0.64
44:CA:311:LYS:HG2	44:CA:344:VAL:HG22	1.78	0.64
44:CA:320:ARG:HA	44:CA:356:ASN:O	1.97	0.64
45:CB:52:ASN:O	45:CB:60:VAL:N	2.31	0.64
45:CB:378:PHE:HA	45:CB:381:VAL:HG22	1.79	0.64
44:CE:40:LYS:HD3	44:CE:41:THR:N	2.13	0.64
45:CF:8:GLN:OE1	45:CF:8:GLN:N	2.31	0.64
45:CF:74:ASP:HA	45:CF:77:ARG:HH21	1.62	0.64
44:CG:23:LEU:HD23	44:CG:236:SER:HB3	1.80	0.64
44:CG:257:THR:HG22	45:CH:397:TRP:CH2	2.33	0.64
44:CI:214:ARG:HA	44:CI:219:ILE:O	1.98	0.64
44:CK:2:ARG:HB2	44:CK:133:GLN:CD	2.18	0.64
45:CL:202:ILE:HA	45:CL:301:CYS:SG	2.38	0.64
45:CL:268:ILE:HA	45:CL:368:VAL:HA	1.78	0.64
45:CN:11:GLN:OE1	45:CN:15:GLN:HG2	1.98	0.64
44:DA:268:MET:HB2	44:DA:380:ASN:HA	1.80	0.64
45:DB:284:LEU:HD11	45:DB:361:LEU:HD12	1.80	0.64
44:DG:276:ILE:HD13	44:DG:281:ALA:HA	1.78	0.64
44:DG:287:SER:O	44:DG:291:ILE:HG23	1.98	0.64
45:DJ:253:LEU:O	45:DJ:257:LEU:HD13	1.98	0.64
44:DK:212:ILE:HD12	44:DK:300:ASN:OD1	1.98	0.64
45:DL:135:ILE:HG13	45:DL:152:ILE:HD11	1.80	0.64
45:DL:217:LEU:HD12	45:DL:217:LEU:O	1.98	0.64
45:DL:232:ALA:O	45:DL:236:VAL:HG23	1.96	0.64
44:DM:210:TYR:CE1	44:DM:227:LEU:HD11	2.33	0.64
44:DM:274:PRO:CG	44:DM:291:ILE:HG22	2.28	0.64
45:DN:4:ILE:HG22	45:DN:132:GLY:N	2.13	0.64
45:DN:87:PRO:HA	45:DN:90:PHE:CD1	2.33	0.64
44:EA:259:LEU:HD13	44:EA:378:ILE:HG22	1.79	0.64
45:EB:100:ASN:HD22	45:EB:103:LYS:HG2	1.63	0.64
45:EB:276:ARG:NH1	45:EB:279:GLN:OE1	2.31	0.64
45:EF:52:ASN:HD21	45:EF:62:ARG:HE	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:259:PRO:HA	44:EK:404:PHE:CZ	2.32	0.64
45:EL:6:HIS:NE2	45:EL:8:GLN:HB3	2.12	0.64
44:EM:137:VAL:HG12	44:EM:167:LEU:O	1.98	0.64
45:EN:154:LYS:O	45:EN:158:GLU:HG3	1.98	0.64
44:FC:191:THR:O	44:FC:195:LEU:N	2.30	0.64
45:FD:185:ALA:O	45:FD:188:SER:OG	2.13	0.64
45:FF:32:PRO:HG3	45:FF:81:PHE:CE2	2.33	0.64
45:FF:182:PRO:O	45:FF:186:THR:HG23	1.98	0.64
44:FI:105:ARG:HD2	45:FJ:251:ARG:HH22	1.62	0.64
44:GA:312:TYR:HA	44:GA:381:SER:HB2	1.80	0.64
45:GD:180:VAL:CG2	45:GD:183:TYR:HB2	2.27	0.64
45:GD:258:ILE:CD1	45:GD:264:HIS:HA	2.27	0.64
44:GE:112:LYS:O	44:GE:115:VAL:HG12	1.97	0.64
44:GE:320:ARG:HH12	44:GE:360:PRO:CA	2.10	0.64
45:GJ:135:ILE:HD13	45:GJ:164:MET:HE1	1.79	0.64
45:GJ:206:ALA:HB3	45:GJ:300:MET:O	1.97	0.64
44:GK:3:GLU:O	44:GK:132:LEU:HA	1.98	0.64
44:GK:326:LYS:HE2	45:GN:220:PRO:HB2	1.79	0.64
45:GL:418:LEU:O	45:GL:421:GLU:HG3	1.98	0.64
44:GM:320:ARG:O	44:GM:374:ALA:N	2.31	0.64
44:HA:136:LEU:HA	44:HA:167:LEU:O	1.96	0.64
45:HB:256:ASN:O	45:HB:257:LEU:HD12	1.98	0.64
45:HB:379:LYS:CG	45:HB:419:VAL:HG11	2.24	0.64
45:HD:7:ILE:HB	45:HD:135:ILE:CD1	2.27	0.64
44:HE:215:ARG:NH2	44:HE:299:ALA:O	2.31	0.64
44:HE:247:ALA:O	44:HE:248:LEU:HD12	1.98	0.64
45:HH:139:LEU:HD13	45:HH:168:SER:HB3	1.78	0.64
44:HI:88:HIS:HB3	44:HI:91:GLN:HG2	1.79	0.64
44:HI:141:VAL:HG13	44:HI:142:GLY:N	2.11	0.64
44:HI:224:TYR:CD1	45:HJ:323:THR:HG21	2.32	0.64
45:HL:101:TRP:NE1	45:HL:105:HIS:HB2	2.13	0.64
45:HL:200:MET:CE	45:HL:268:ILE:HG21	2.27	0.64
45:HN:42:LEU:HA	45:HN:45:GLU:OE2	1.98	0.64
44:IA:141:VAL:HG23	44:IA:190:SER:OG	1.98	0.64
45:IB:146:GLY:O	45:IB:149:THR:HG22	1.97	0.64
45:ID:352:SER:O	45:ID:353:ILE:HD13	1.97	0.64
44:IG:269:LEU:HD23	44:IG:269:LEU:H	1.62	0.64
44:IG:274:PRO:HG3	44:IG:286:LEU:HD12	1.79	0.64
44:IM:221:ARG:HH21	45:IN:321:MET:HG3	1.61	0.64
45:IN:8:GLN:O	45:IN:66:MET:HB2	1.98	0.64
45:IN:107:THR:HG21	45:IN:401:GLU:CG	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:303:ALA:H	45:IN:377:MET:CE	2.10	0.64
45:IN:304:ASP:OD1	45:IN:305:PRO:HD2	1.97	0.64
45:JB:158:GLU:HG2	45:JB:159:TYR:CD1	2.33	0.64
44:JC:26:LEU:CD1	44:JC:364:PRO:HD3	2.28	0.64
44:JC:141:VAL:HG11	44:JC:187:SER:HA	1.78	0.64
45:JD:314:SER:CA	45:JD:350:LYS:HB3	2.27	0.64
44:JE:12:GLY:O	44:JE:16:VAL:HG22	1.97	0.64
44:JE:238:LEU:HD11	44:JE:255:PHE:CE2	2.31	0.64
44:JE:326:LYS:HG2	45:JH:208:TYR:CE1	2.32	0.64
44:JG:254:GLU:HG3	45:JJ:98:GLY:HA2	1.78	0.64
45:JH:332:ASN:O	45:JH:336:LYS:HG2	1.98	0.64
44:JI:261:PRO:HB2	44:JI:262:TYR:CD2	2.33	0.64
44:JI:404:PHE:CE1	45:JJ:259:PRO:HA	2.33	0.64
44:JK:234:VAL:HA	44:JK:237:SER:CB	2.28	0.64
45:JL:409:THR:O	45:JL:412:GLU:HG2	1.98	0.64
45:JN:330:MET:O	45:JN:333:VAL:HG12	1.98	0.64
44:KA:31:GLN:NE2	44:KA:35:GLN:HB2	2.13	0.64
45:KF:49:VAL:HG11	45:KF:241:ARG:CG	2.28	0.64
44:KG:6:SER:O	44:KG:7:ILE:HD13	1.97	0.64
45:KH:50:TYR:OH	45:KH:237:THR:HG21	1.97	0.64
44:KK:258:ASN:HD21	45:KN:178:THR:HG23	1.62	0.64
45:KL:143:THR:HG22	48:KL:501:GDP:PB	2.38	0.64
45:KL:323:THR:HA	45:KL:326:VAL:HG12	1.80	0.64
45:KN:19:LYS:O	45:KN:22:GLU:HB3	1.98	0.64
45:LB:113:ILE:HG21	45:LB:150:LEU:HD22	1.79	0.64
45:LD:67:ASP:HB3	45:LD:73:MET:HE2	1.79	0.64
44:LG:205:ASP:OD2	44:LG:304:LYS:N	2.25	0.64
44:LG:289:ALA:O	44:LG:292:THR:HG22	1.97	0.64
44:LI:54:SER:HB3	44:LI:64:ARG:NH2	2.13	0.64
44:LI:63:PRO:CG	44:LI:87:PHE:HA	2.27	0.64
44:LI:260:VAL:HG13	44:LI:260:VAL:O	1.96	0.64
45:LN:248:SER:HA	45:LN:252:LYS:HD2	1.79	0.64
44:MA:279:GLU:C	44:MA:280:LYS:HD3	2.17	0.64
45:MD:235:GLY:HA2	45:MD:318:ARG:NH2	2.12	0.64
44:ME:221:ARG:HE	45:MF:325:GLU:CB	2.11	0.64
45:MF:269:GLY:HA2	45:MF:300:MET:CE	2.28	0.64
45:MJ:182:PRO:HG2	45:MJ:388:MET:CE	2.28	0.64
45:MJ:334:GLN:HB2	45:MJ:349:ILE:CD1	2.28	0.64
45:MN:166:THR:O	45:MN:199:CYS:HA	1.98	0.64
44:NA:70:LEU:HB3	44:NA:97:GLU:O	1.98	0.64
44:NA:323:VAL:HG23	44:NA:355:ILE:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:52:ASN:HB3	45:NB:60:VAL:CG1	2.27	0.64
45:NB:73:MET:HE2	45:NB:92:PHE:HB3	1.79	0.64
44:NE:10:GLY:O	44:NE:14:ILE:HG12	1.97	0.64
44:NE:250:VAL:HG21	44:NE:352:LYS:HZ3	1.63	0.64
45:NF:253:LEU:O	45:NF:257:LEU:HD13	1.98	0.64
44:NG:100:ALA:HB2	45:NH:251:ARG:HB2	1.80	0.64
44:NI:398:MET:HE1	45:NJ:346:PRO:HD2	1.79	0.64
45:NJ:99:ASN:HA	45:NJ:142:GLY:H	1.62	0.64
44:NK:262:TYR:OH	45:NN:391:ARG:O	2.05	0.64
44:NM:363:VAL:HG13	44:NM:366:GLY:HA2	1.80	0.64
44:OA:230:LEU:O	44:OA:234:VAL:HG23	1.97	0.64
44:OC:348:PRO:HB2	45:OF:384:GLN:HE22	1.63	0.64
45:OD:360:GLY:O	45:OD:361:LEU:HD23	1.98	0.64
45:OH:238:CYS:HB3	45:OH:318:ARG:CZ	2.28	0.64
44:OK:209:ILE:HB	44:OK:227:LEU:HD23	1.77	0.64
44:OM:107:HIS:CD2	44:OM:152:LEU:HB2	2.32	0.64
45:ON:372:THR:HA	45:ON:422:TYR:HE2	1.62	0.64
44:PC:261:PRO:HA	45:PF:394:PHE:CD2	2.32	0.64
45:PD:295:ASP:HB3	45:PD:298:ASN:HB2	1.79	0.64
44:PE:328:VAL:O	44:PE:332:ILE:HD12	1.97	0.64
44:PG:3:GLU:HG2	44:PG:64:ARG:HH12	1.62	0.64
45:PJ:134:GLN:HB3	45:PJ:165:GLU:OE1	1.98	0.64
44:PK:145:THR:HG22	46:PK:501:GTP:PG	2.38	0.64
44:PK:183:GLU:N	44:PK:184:PRO:HD2	2.13	0.64
44:PM:287:SER:O	44:PM:291:ILE:HG23	1.98	0.64
45:QB:156:ARG:HD3	45:QB:164:MET:HE3	1.78	0.64
45:QB:260:PHE:CE1	44:QC:403:ALA:HA	2.33	0.64
44:QC:97:GLU:HG2	44:QC:105:ARG:HH22	1.61	0.64
44:QC:108:TYR:HE2	44:QC:413:MET:HA	1.62	0.64
44:QE:101:ASN:HA	44:QE:144:GLY:N	2.06	0.64
45:QF:178:THR:HG21	45:QF:180:VAL:HG12	1.80	0.64
45:QF:299:MET:HE2	45:QF:305:PRO:HG3	1.80	0.64
44:QI:269:LEU:CD1	44:QI:301:MET:HG2	2.27	0.64
45:QJ:20:PHE:O	45:QJ:24:ILE:HG12	1.97	0.64
45:QJ:116:VAL:HA	45:QJ:119:VAL:HG22	1.80	0.64
44:QK:54:SER:HB3	44:QK:64:ARG:NH2	2.13	0.64
44:QK:151:SER:HB3	44:QK:193:SER:OG	1.98	0.64
45:QL:16:ILE:HA	45:QL:226:ASN:OD1	1.97	0.64
45:QL:22:GLU:HG2	45:QL:81:PHE:CD1	2.32	0.64
45:QL:217:LEU:HD11	45:QL:220:PRO:CA	2.28	0.64
44:QM:210:TYR:HE1	44:QM:227:LEU:HD11	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:346:TRP:CZ3	44:RA:347:CYS:HB2	2.33	0.64
45:RB:120:VAL:HA	45:RB:123:GLU:HG2	1.79	0.64
45:RD:52:ASN:OD1	45:RD:62:ARG:NE	2.30	0.64
44:RG:195:LEU:HA	44:RG:266:HIS:NE2	2.12	0.64
44:RI:205:ASP:OD2	44:RI:304:LYS:N	2.30	0.64
45:RJ:314:SER:CB	45:RJ:350:LYS:HB3	2.27	0.64
44:RM:184:PRO:O	44:RM:188:ILE:N	2.26	0.64
44:RM:298:PRO:HB3	44:RM:307:PRO:HD2	1.80	0.64
45:RN:31:ASP:OD2	45:RN:37:HIS:ND1	2.31	0.64
44:SA:136:LEU:CD2	44:SA:167:LEU:HD13	2.28	0.64
45:SB:2:ARG:H	45:SB:129:CYS:HB3	1.61	0.64
45:SB:97:ALA:HA	45:SB:103:LYS:CD	2.28	0.64
45:SF:407:GLU:O	45:SF:410:GLU:HG2	1.98	0.64
44:SG:5:ILE:HD13	44:SG:64:ARG:HB3	1.79	0.64
44:SK:356:ASN:OD1	44:SK:357:TYR:N	2.31	0.64
45:SL:73:MET:O	45:SL:76:VAL:HG12	1.98	0.64
45:SL:255:VAL:HA	44:SM:407:TRP:CZ3	2.32	0.64
44:SM:298:PRO:O	44:SM:301:MET:HG3	1.98	0.64
45:SN:12:CYS:SG	45:SN:138:SER:HB2	2.38	0.64
44:TA:105:ARG:O	44:TA:110:ILE:HG12	1.97	0.64
44:TA:295:ALA:HB1	44:TA:377:MET:CE	2.28	0.64
44:TC:254:GLU:HG2	45:TD:98:GLY:O	1.97	0.64
44:TC:423:GLU:O	44:TC:427:ALA:N	2.31	0.64
45:TD:385:PHE:CE2	45:TD:412:GLU:HB2	2.32	0.64
44:TE:329:ASN:HB3	45:TF:175:VAL:HG12	1.80	0.64
45:TF:304:ASP:OD1	45:TF:306:ARG:HG2	1.98	0.64
44:TG:93:ILE:HD12	44:TG:93:ILE:H	1.63	0.64
45:TH:183:TYR:CE2	45:TH:394:PHE:HB2	2.22	0.64
44:TI:387:VAL:O	44:TI:391:LEU:HD13	1.98	0.64
45:TL:322:SER:CA	44:TM:223:THR:HB	2.27	0.64
45:TN:42:LEU:CD2	45:TN:243:PRO:HD2	2.26	0.64
44:UC:275:ILE:HG13	44:UC:275:ILE:O	1.98	0.64
45:UD:347:ASN:O	44:UE:181:VAL:HG12	1.98	0.64
45:UF:313:ALA:HB1	45:UF:367:PHE:CE1	2.33	0.64
45:UJ:132:GLY:HA3	45:UJ:163:ILE:CG1	2.28	0.64
44:UK:103:PHE:H	44:UK:408:TYR:HE2	1.46	0.64
44:UK:119:LEU:HA	44:UK:122:ILE:CG1	2.27	0.64
44:UK:288:VAL:HG11	44:UK:327:ASP:CB	2.25	0.64
45:UN:48:ASN:O	45:UN:62:ARG:NH1	2.21	0.64
45:UN:211:CYS:CB	45:UN:215:LEU:HD12	2.27	0.64
44:VA:319:TYR:N	44:VA:354:GLY:O	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:245:GLN:HG2	45:VB:355:ASP:OD1	1.98	0.64
45:VB:318:ARG:HB2	45:VB:364:ALA:O	1.96	0.64
44:VC:88:HIS:CE1	44:VC:90:GLU:HG2	2.32	0.64
44:VE:17:GLY:HA2	44:VE:20:CYS:SG	2.38	0.64
45:VF:295:ASP:OD1	45:VF:296:ALA:N	2.31	0.64
44:VI:188:ILE:HG23	44:VI:425:LEU:CD1	2.28	0.64
44:VI:297:GLU:CD	44:VI:298:PRO:HD2	2.18	0.64
45:VL:6:HIS:HE1	45:VL:136:THR:HG23	1.63	0.64
44:VM:145:THR:HG22	46:VM:501:GTP:O2G	1.98	0.64
44:WC:51:THR:CG2	44:WC:243:ARG:HD3	2.28	0.64
45:WD:398:TYR:O	45:WD:403:MET:HB2	1.98	0.64
44:WE:296:PHE:HE2	44:WE:335:ILE:HG21	1.63	0.64
45:WJ:330:MET:SD	45:WJ:349:ILE:HG21	2.38	0.64
45:WJ:405:GLU:O	45:WJ:409:THR:HG23	1.97	0.64
44:WM:20:CYS:HA	44:WM:232:ALA:HB2	1.80	0.64
5:0D:224:ARG:HG3	35:7R:566:PHE:CZ	2.31	0.64
16:0X:53:ILE:HD11	44:MA:279:GLU:HA	1.80	0.64
22:1L:826:LYS:HB2	35:7R:177:VAL:HG23	1.80	0.64
13:2T:225:SER:HB2	44:MG:196:GLU:OE1	1.97	0.64
12:3S:97:ARG:HA	45:MN:262:ARG:HH22	1.61	0.64
37:5D:22:TYR:CZ	45:KN:381:VAL:O	2.51	0.64
41:6G:123:LEU:HG	45:VJ:174:LYS:CE	2.28	0.64
35:7R:72:ALA:HB3	35:7R:74:ILE:CD1	2.28	0.64
42:8N:7:UNK:O	42:8N:11:UNK:N	2.30	0.64
42:8N:319:UNK:O	42:8N:323:UNK:N	2.30	0.64
44:AA:88:HIS:ND1	44:AA:89:PRO:HD2	2.13	0.64
44:AC:46:ASP:OD1	44:AC:47:ASP:N	2.29	0.64
45:AF:325:GLU:HA	45:AF:328:GLU:CG	2.28	0.64
44:AG:3:GLU:OE2	44:AG:130:THR:N	2.28	0.64
44:AG:21:TRP:O	44:AG:25:CYS:N	2.27	0.64
44:AG:174:SER:OG	44:AG:207:GLU:HB2	1.98	0.64
45:AH:372:THR:HA	45:AH:422:TYR:HE2	1.63	0.64
45:AJ:293:MET:HE3	45:AJ:367:PHE:HD1	1.63	0.64
44:AK:243:ARG:HH11	44:AK:243:ARG:HG3	1.62	0.64
44:AK:288:VAL:HG11	44:AK:327:ASP:HB3	1.79	0.64
45:AL:287:PRO:O	45:AL:290:THR:HG22	1.97	0.64
44:AM:332:ILE:HD12	44:AM:351:PHE:CD2	2.33	0.64
44:BA:288:VAL:HG11	44:BA:327:ASP:OD2	1.97	0.64
44:BA:384:ILE:O	44:BA:387:VAL:HG22	1.98	0.64
44:BC:276:ILE:CG2	44:BC:281:ALA:HB2	2.28	0.64
44:BC:427:ALA:HA	44:BC:430:LYS:NZ	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:372:THR:HA	45:BD:422:TYR:HE1	1.62	0.64
45:BF:178:THR:HB	45:BF:181:GLU:CG	2.19	0.64
45:BF:248:SER:HA	45:BF:252:LYS:HD2	1.78	0.64
45:BF:286:VAL:HG13	45:BF:329:GLN:NE2	2.12	0.64
44:BG:5:ILE:HG13	44:BG:132:LEU:CD1	2.28	0.64
44:BG:262:TYR:HB3	44:BG:263:PRO:HD2	1.80	0.64
44:BI:62:VAL:HG21	44:BI:88:HIS:HB3	1.80	0.64
44:BI:93:ILE:HG12	44:BI:117:LEU:HD21	1.80	0.64
45:BN:293:MET:SD	45:BN:365:VAL:HG11	2.38	0.64
45:BN:325:GLU:HA	45:BN:328:GLU:CG	2.22	0.64
44:CA:49:PHE:HB2	44:CA:53:PHE:CD2	2.25	0.64
45:CB:166:THR:OG1	45:CB:199:CYS:HA	1.97	0.64
44:CC:99:ALA:HB3	44:CC:145:THR:CG2	2.28	0.64
44:CE:6:SER:O	44:CE:7:ILE:HD13	1.97	0.64
45:CH:173:PRO:HG2	45:CH:384:GLN:OE1	1.97	0.64
44:CI:64:ARG:HD3	44:CI:129:CYS:SG	2.38	0.64
44:CI:174:SER:OG	44:CI:206:ASN:OD1	2.16	0.64
44:CI:205:ASP:OD1	44:CI:303:ALA:HA	1.98	0.64
45:CJ:101:TRP:HB3	45:CJ:398:TYR:HE2	1.63	0.64
45:CL:207:LEU:HA	45:CL:210:ILE:HD12	1.80	0.64
45:CL:334:GLN:HB2	45:CL:349:ILE:HD11	1.80	0.64
45:CN:26:ASP:O	45:CN:359:LYS:HD3	1.98	0.64
45:CN:185:ALA:O	45:CN:189:VAL:HG23	1.97	0.64
45:DD:325:GLU:HA	45:DD:328:GLU:HG2	1.80	0.64
44:DE:102:ASN:OD1	44:DE:104:ALA:N	2.31	0.64
44:DE:288:VAL:HG11	44:DE:327:ASP:HB3	1.78	0.64
44:DG:278:ALA:CA	44:DG:369:ALA:HB2	2.27	0.64
45:DJ:330:MET:HB3	45:DJ:349:ILE:HD12	1.79	0.64
44:DM:386:GLU:O	44:DM:389:SER:OG	2.13	0.64
45:DN:32:PRO:HG3	45:DN:81:PHE:HE1	1.62	0.64
45:ED:193:VAL:HA	45:ED:264:HIS:CE1	2.33	0.64
44:EE:88:HIS:CE1	44:EE:90:GLU:HG2	2.33	0.64
44:EE:141:VAL:HG11	44:EE:172:TYR:CD1	2.33	0.64
45:EH:203:ASP:O	45:EH:207:LEU:HG	1.97	0.64
44:EI:175:PRO:HG2	44:EI:304:LYS:CE	2.26	0.64
44:EI:208:ALA:O	44:EI:212:ILE:HG12	1.98	0.64
44:EI:311:LYS:H	44:EI:382:THR:HG22	1.63	0.64
44:EK:320:ARG:NH2	44:EK:360:PRO:HA	2.12	0.64
45:EN:168:SER:O	45:EN:202:ILE:N	2.30	0.64
44:FA:145:THR:O	44:FA:149:LEU:HB2	1.98	0.64
45:FD:320:ARG:NH1	45:FD:357:PRO:HG3	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:221:ARG:NH2	45:FF:321:MET:HB2	2.11	0.64
44:FE:332:ILE:HD12	44:FE:351:PHE:CD2	2.33	0.64
44:FE:402:ARG:O	44:FE:405:VAL:HG22	1.98	0.64
44:FG:119:LEU:O	44:FG:122:ILE:HG22	1.97	0.64
45:FH:341:PHE:CE1	45:FH:349:ILE:HD11	2.32	0.64
45:FJ:330:MET:SD	45:FJ:349:ILE:HG21	2.38	0.64
44:GA:326:LYS:HD3	45:GD:208:TYR:CZ	2.33	0.64
45:GD:68:LEU:HB2	45:GD:147:MET:CE	2.28	0.64
44:GE:287:SER:HB3	44:GE:290:GLU:HG2	1.79	0.64
44:GE:334:THR:HG22	44:GE:338:LYS:HE3	1.80	0.64
45:GF:285:THR:HB	45:GF:287:PRO:HD2	1.79	0.64
45:GH:186:THR:HA	45:GH:415:MET:HE3	1.79	0.64
44:GI:68:LEU:HD21	44:GI:118:CYS:HB2	1.80	0.64
44:GK:311:LYS:HB2	44:GK:382:THR:HG21	1.80	0.64
44:GM:387:VAL:HA	44:GM:390:ARG:HH11	1.62	0.64
45:GN:135:ILE:O	45:GN:166:THR:HA	1.98	0.64
44:HA:417:GLU:O	44:HA:420:GLU:HG2	1.97	0.64
45:HB:54:ALA:HA	45:IB:283:ALA:HB2	1.77	0.64
45:HB:287:PRO:HD3	45:HB:325:GLU:OE2	1.98	0.64
45:HB:287:PRO:O	45:HB:290:THR:HG22	1.98	0.64
44:HC:88:HIS:HB3	44:HC:91:GLN:CG	2.28	0.64
44:HC:396:ASP:OD1	44:HC:397:LEU:N	2.30	0.64
44:HE:221:ARG:N	44:HE:222:PRO:HD3	2.13	0.64
44:HE:278:ALA:HA	44:HE:369:ALA:HB2	1.80	0.64
45:HF:11:GLN:HG3	45:HF:72:THR:HG22	1.80	0.64
45:HF:202:ILE:HD11	45:HF:268:ILE:CD1	2.28	0.64
45:HH:325:GLU:HA	45:HH:328:GLU:CG	2.28	0.64
44:HM:398:MET:SD	45:HN:345:ILE:HG13	2.38	0.64
45:HN:304:ASP:OD1	45:HN:306:ARG:HG2	1.98	0.64
44:IA:146:GLY:N	46:IA:501:GTP:O1B	2.31	0.64
44:IA:182:VAL:N	45:IB:256:ASN:OD1	2.31	0.64
45:IB:257:LEU:HD13	45:IB:266:PHE:CE2	2.33	0.64
45:IB:282:ARG:CZ	45:IB:284:LEU:HG	2.28	0.64
45:IB:313:ALA:HB3	45:IB:349:ILE:HG12	1.80	0.64
45:ID:116:VAL:O	45:ID:119:VAL:HG12	1.98	0.64
44:IG:206:ASN:HA	44:IG:209:ILE:HD12	1.79	0.64
44:II:318:MET:SD	44:II:354:GLY:HA3	2.38	0.64
44:II:320:ARG:HD3	44:II:360:PRO:HD3	1.80	0.64
45:IJ:106:TYR:HD2	45:IJ:403:MET:HE3	1.63	0.64
44:IK:408:TYR:HB3	44:IK:413:MET:CE	2.28	0.64
45:IL:21:TRP:CZ3	45:IL:61:PRO:HB3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:42:LEU:CA	45:IN:45:GLU:HG3	2.25	0.64
44:JA:291:ILE:HG13	44:JA:292:THR:N	2.13	0.64
44:JC:170:THR:O	44:JC:171:ILE:HD13	1.98	0.64
44:JC:261:PRO:HA	45:JF:394:PHE:CE2	2.33	0.64
44:JE:8:HIS:HD2	44:JE:138:PHE:HB2	1.63	0.64
44:JE:67:PHE:O	44:JE:68:LEU:HD22	1.98	0.64
45:JF:65:LEU:HD11	45:JF:85:PHE:CD2	2.32	0.64
45:JF:213:ARG:HG3	45:JF:297:LYS:HE3	1.80	0.64
44:JG:377:MET:SD	44:JG:379:SER:HB3	2.38	0.64
44:JI:419:SER:O	44:JI:423:GLU:HG3	1.98	0.64
45:JJ:237:THR:HG23	45:JJ:241:ARG:NH2	2.13	0.64
45:JJ:408:PHE:O	45:JJ:412:GLU:HG2	1.98	0.64
44:JK:404:PHE:CD1	45:JL:259:PRO:HA	2.33	0.64
45:JL:158:GLU:HG2	45:JL:159:TYR:CE1	2.33	0.64
44:JM:69:ASP:OD1	44:JM:75:ILE:HG13	1.96	0.64
44:KC:275:ILE:HA	44:KC:368:LEU:HD11	1.80	0.64
44:KE:52:PHE:CE1	44:KE:239:THR:HG21	2.32	0.64
44:KE:177:VAL:CG2	45:KF:331:LEU:HD22	2.28	0.64
45:KF:272:PRO:O	45:KF:273:LEU:HD22	1.97	0.64
44:KG:426:ALA:HB1	44:KG:430:LYS:NZ	2.12	0.64
45:KH:49:VAL:HG11	45:KH:241:ARG:CD	2.26	0.64
45:KH:144:GLY:N	48:KH:501:GDP:O1B	2.26	0.64
45:KL:360:GLY:C	45:KL:361:LEU:HD12	2.18	0.64
44:KM:164:LYS:HD3	44:KM:165:SER:O	1.97	0.64
45:KN:174:LYS:HE3	45:KN:205:GLU:HG3	1.80	0.64
45:LD:282:ARG:HE	45:LD:283:ALA:N	1.96	0.64
44:LE:57:GLY:HA3	44:LE:60:LYS:O	1.98	0.64
45:LF:62:ARG:HG2	45:LF:123:GLU:OE2	1.96	0.64
44:LG:2:ARG:NH2	44:LG:243:ARG:HA	2.09	0.64
44:LK:261:PRO:HA	45:LN:394:PHE:CE1	2.32	0.64
44:MA:377:MET:O	44:MA:378:ILE:HD13	1.98	0.64
45:MB:40:SER:N	45:MB:43:GLN:OE1	2.31	0.64
44:ME:31:GLN:CD	44:ME:37:PRO:HA	2.18	0.64
44:MI:422:ARG:NH1	44:MI:426:ALA:HB2	2.11	0.64
44:MK:100:ALA:CA	45:ML:252:LYS:HZ3	2.08	0.64
44:MK:195:LEU:HD21	44:MK:264:ARG:NH2	2.13	0.64
44:MM:5:ILE:HD12	44:MM:135:PHE:HE1	1.61	0.64
44:NA:189:LEU:HD21	44:NA:418:PHE:CD1	2.32	0.64
44:NA:249:ASN:ND2	45:ND:11:GLN:OE1	2.31	0.64
44:NC:345:ASP:OD2	44:NC:438:GLU:HA	1.97	0.64
45:ND:33:THR:O	45:ND:58:ARG:HD2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ND:86:ARG:HH12	45:OD:280:GLN:CB	2.08	0.64
45:ND:238:CYS:SG	45:ND:316:LEU:HD13	2.37	0.64
44:NE:63:PRO:HG2	44:NE:86:LEU:HG	1.80	0.64
44:NE:175:PRO:HD2	44:NE:207:GLU:OE1	1.98	0.64
44:NG:200:VAL:HB	44:NG:268:MET:HE2	1.80	0.64
44:NG:291:ILE:HG13	44:NG:292:THR:N	2.13	0.64
45:NH:287:PRO:CG	45:NH:329:GLN:HE22	2.00	0.64
45:NJ:74:ASP:OD1	45:NJ:75:SER:N	2.31	0.64
44:NK:90:GLU:OE1	44:NK:121:ARG:NH1	2.28	0.64
44:NK:362:VAL:HG23	44:NK:368:LEU:HB3	1.80	0.64
44:NM:106:GLY:O	44:NM:111:GLY:HA3	1.96	0.64
44:NM:276:ILE:HD11	44:NM:371:VAL:HG23	1.78	0.64
45:NN:1:MET:C	45:NN:2:ARG:HD3	2.18	0.64
44:OA:93:ILE:HG21	44:OA:114:ILE:HD11	1.80	0.64
44:OA:206:ASN:OD1	44:OA:207:GLU:N	2.30	0.64
44:OC:431:ASP:O	44:OC:435:VAL:N	2.30	0.64
44:OE:68:LEU:HD13	44:OE:93:ILE:O	1.97	0.64
44:OG:304:LYS:HD2	44:OG:304:LYS:N	2.13	0.64
44:OG:326:LYS:HD2	45:OJ:220:PRO:HD2	1.80	0.64
45:OH:237:THR:O	45:OH:237:THR:HG22	1.97	0.64
44:OI:8:HIS:CD2	44:OI:138:PHE:HB2	2.32	0.64
45:OJ:167:PHE:HE2	45:OJ:233:MET:CB	2.11	0.64
44:OK:354:GLY:O	44:OK:355:ILE:HD13	1.97	0.64
45:OL:46:ARG:HB3	45:OL:49:VAL:CG1	2.27	0.64
45:ON:60:VAL:HG23	45:ON:84:LEU:O	1.98	0.64
45:ON:65:LEU:HD23	45:ON:73:MET:HG2	1.80	0.64
44:PC:247:ALA:HB2	44:PC:357:TYR:OH	1.96	0.64
44:PE:24:PHE:HZ	44:PE:235:ILE:HG22	1.63	0.64
44:PE:184:PRO:O	44:PE:188:ILE:HG12	1.98	0.64
44:PE:200:VAL:HG13	44:PE:268:MET:CE	2.28	0.64
44:PE:262:TYR:OH	45:PH:391:ARG:O	2.16	0.64
45:PJ:20:PHE:CZ	45:PJ:233:MET:HB3	2.32	0.64
45:PJ:318:ARG:HH11	45:PJ:358:PRO:CG	2.11	0.64
44:QA:87:PHE:HB3	44:QA:91:GLN:HE21	1.63	0.64
44:QA:287:SER:O	44:QA:290:GLU:HG2	1.98	0.64
44:QC:64:ARG:NH1	44:QC:128:ASN:OD1	2.30	0.64
44:QC:71:GLU:HB2	44:QC:98:ASP:HB2	1.80	0.64
44:QC:215:ARG:HH22	44:QC:300:ASN:HA	1.62	0.64
45:QD:304:ASP:OD1	45:QD:305:PRO:HD2	1.98	0.64
44:QE:5:ILE:HG12	44:QE:64:ARG:HD3	1.78	0.64
44:QE:346:TRP:CD1	45:QF:391:ARG:HG3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:136:THR:HG21	45:QF:233:MET:HE1	1.79	0.64
45:QF:324:LYS:HD2	44:QG:210:TYR:CD1	2.33	0.64
45:QL:244:GLY:HA2	45:QL:355:ASP:OD2	1.97	0.64
44:QM:145:THR:HG23	46:QM:501:GTP:O2G	1.98	0.64
45:QN:169:VAL:CG2	45:QN:202:ILE:HB	2.19	0.64
44:RA:54:SER:HA	44:RA:64:ARG:HH21	1.61	0.64
44:RA:269:LEU:O	44:RA:379:SER:OG	2.07	0.64
45:RB:24:ILE:HA	45:RB:27:GLU:CD	2.18	0.64
44:RC:329:ASN:ND2	45:RD:175:VAL:HG12	2.13	0.64
45:RD:4:ILE:HD11	45:RD:50:TYR:OH	1.96	0.64
45:RD:198:GLU:OE2	45:RD:254:ALA:HB2	1.98	0.64
45:RD:293:MET:HE3	45:RD:367:PHE:HB2	1.80	0.64
44:RE:292:THR:HG22	44:RE:319:TYR:OH	1.98	0.64
45:RH:317:PHE:HA	45:RH:365:VAL:HG12	1.80	0.64
44:RI:288:VAL:CA	44:RI:291:ILE:HG12	2.27	0.64
45:RJ:259:PRO:O	44:RK:406:HIS:NE2	2.29	0.64
45:RJ:315:ALA:O	45:RJ:351:SER:HA	1.98	0.64
45:RL:58:ARG:HD3	45:RL:59:TYR:H	1.63	0.64
44:RM:5:ILE:HB	44:RM:135:PHE:CE1	2.31	0.64
44:RM:265:ILE:O	44:RM:265:ILE:HG23	1.98	0.64
44:SA:175:PRO:HD2	44:SA:207:GLU:OE1	1.97	0.64
45:SB:30:ILE:HD13	45:SB:36:TYR:HD1	1.63	0.64
44:SC:2:ARG:HD2	44:SC:242:LEU:O	1.98	0.64
44:SC:200:VAL:HG13	44:SC:268:MET:SD	2.38	0.64
45:SD:232:ALA:O	45:SD:235:GLY:N	2.30	0.64
45:SF:4:ILE:CG2	45:SF:131:GLN:HB3	2.27	0.64
44:SG:141:VAL:HG11	44:SG:172:TYR:CD1	2.33	0.64
45:SH:174:LYS:HE3	45:SH:175:VAL:HG22	1.80	0.64
44:SK:105:ARG:O	44:SK:110:ILE:HG12	1.97	0.64
44:SK:270:SER:O	44:SK:302:MET:HG3	1.97	0.64
45:SL:21:TRP:CZ3	45:SL:63:ALA:HB2	2.32	0.64
45:SL:152:ILE:O	45:SL:155:VAL:HG22	1.98	0.64
45:SL:173:PRO:HG3	45:SL:380:ARG:HG3	1.78	0.64
44:SM:372:MET:SD	44:SM:373:ARG:NH1	2.70	0.64
45:SN:309:ARG:NH2	45:SN:426:GLN:O	2.26	0.64
45:TB:110:ALA:O	45:TB:113:ILE:HG22	1.98	0.64
44:TE:290:GLU:O	44:TE:294:SER:OG	2.09	0.64
44:TG:258:ASN:HB3	45:TH:179:VAL:CG2	2.27	0.64
45:TH:217:LEU:HD11	45:TH:220:PRO:CG	2.27	0.64
44:TI:213:CYS:HA	44:TI:217:LEU:HD12	1.80	0.64
44:TM:291:ILE:HD12	44:TM:375:VAL:HG12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:180:VAL:HG23	45:TN:183:TYR:HD2	1.63	0.64
45:UB:10:GLY:HA3	45:UB:144:GLY:HA2	1.80	0.64
45:UB:21:TRP:CZ3	45:UB:61:PRO:HB3	2.33	0.64
45:UB:334:GLN:HB2	45:UB:349:ILE:CD1	2.28	0.64
45:UD:7:ILE:HB	45:UD:135:ILE:CD1	2.28	0.64
45:UF:173:PRO:HG2	45:UF:380:ARG:CD	2.27	0.64
45:UF:261:PRO:HD3	44:UG:406:HIS:ND1	2.13	0.64
44:UG:209:ILE:HD11	44:UG:302:MET:CA	2.27	0.64
44:UK:52:PHE:O	44:UK:64:ARG:HD3	1.97	0.64
44:UK:70:LEU:HD12	44:UK:145:THR:HB	1.80	0.64
45:UL:86:ARG:HA	45:UL:86:ARG:NE	2.13	0.64
44:UM:315:CYS:CA	44:UM:317:MET:HE1	2.24	0.64
44:VA:320:ARG:HG3	44:VA:360:PRO:HG3	1.80	0.64
45:VB:266:PHE:CE1	45:VB:370:ASN:HB2	2.32	0.64
44:VC:41:THR:HG23	44:VC:44:GLY:O	1.98	0.64
44:VE:261:PRO:HG2	44:VE:313:MET:SD	2.37	0.64
44:VI:291:ILE:CD1	44:VI:373:ARG:HB3	2.26	0.64
44:VI:311:LYS:HE2	44:VI:342:GLN:HE21	1.61	0.64
45:VJ:180:VAL:HG23	45:VJ:183:TYR:HD2	1.63	0.64
44:WA:433:GLU:O	44:WA:437:ILE:HG23	1.98	0.64
44:WC:19:ALA:CB	44:WC:228:ASN:HB3	2.28	0.64
44:WC:37:PRO:HB2	44:WC:40:LYS:CB	2.26	0.64
45:WD:169:VAL:HG22	45:WD:202:ILE:HB	1.80	0.64
45:WD:193:VAL:HG23	45:WD:264:HIS:NE2	2.13	0.64
45:WH:25:SER:CB	45:WH:30:ILE:HB	2.27	0.64
45:WH:256:ASN:OD1	45:WH:350:LYS:HB2	1.97	0.64
44:WK:191:THR:HA	44:WK:194:LEU:HD21	1.80	0.64
44:WM:224:TYR:CG	45:WN:323:THR:HG21	2.32	0.64
45:WN:156:ARG:NH2	45:WN:196:ALA:HA	2.11	0.64
45:WN:412:GLU:HA	45:WN:415:MET:HB3	1.80	0.64
3:0B:315:ARG:HH12	44:KI:1:MET:HG2	1.62	0.64
8:0G:112:LYS:HE3	44:JM:364:PRO:HG2	1.79	0.64
14:1U:236:LEU:HB3	45:WF:33:THR:HG22	1.78	0.64
2:2A:67:PRO:HD3	45:MJ:53:GLU:HG2	1.80	0.64
29:2F:81:LYS:NZ	45:GF:128:ASP:HA	2.12	0.64
23:2M:5:ARG:NH2	44:IG:40:LYS:HD3	2.12	0.64
37:5D:107:TYR:CE1	44:NM:217:LEU:HD12	2.29	0.64
37:5D:109:ASN:N	44:NM:281:ALA:H	1.95	0.64
38:5H:73:ARG:HG3	38:5H:103:ARG:NH1	2.13	0.64
41:6G:235:ILE:C	41:6G:236:LEU:HD23	2.18	0.64
11:6Q:34:ILE:HG23	11:6Q:49:ILE:CD1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:54:ILE:HD11	35:7R:59:MET:HE2	1.80	0.64
35:7R:462:ASN:N	45:FB:218:THR:OG1	2.30	0.64
35:7R:548:PHE:CZ	35:7R:552:LEU:HD22	2.33	0.64
43:8P:18:UNK:O	43:8P:22:UNK:N	2.31	0.64
45:AB:321:MET:HE3	45:AB:363:MET:CG	2.27	0.64
45:AB:418:LEU:O	45:AB:421:GLU:HG3	1.98	0.64
44:AC:259:LEU:O	44:AC:259:LEU:HD23	1.98	0.64
44:AI:319:TYR:CD1	44:AI:375:VAL:HG22	2.33	0.64
44:AK:259:LEU:O	44:AK:259:LEU:HD23	1.97	0.64
44:AM:224:TYR:HA	44:AM:227:LEU:HB2	1.79	0.64
45:AN:221:THR:O	45:AN:224:ASP:N	2.30	0.64
44:BE:395:PHE:CE2	44:BE:422:ARG:HD3	2.33	0.64
44:BG:173:PRO:HG2	44:BG:391:LEU:HD11	1.79	0.64
45:BH:345:ILE:O	45:BH:345:ILE:HG23	1.98	0.64
45:BJ:137:HIS:HE1	45:BJ:166:THR:HB	1.62	0.64
44:BK:66:VAL:HG11	44:BK:122:ILE:HD11	1.80	0.64
45:BL:355:ASP:O	45:BL:356:ILE:HD13	1.98	0.64
44:BM:383:ALA:O	44:BM:386:GLU:HG2	1.98	0.64
45:BN:97:ALA:CB	45:BN:143:THR:HB	2.28	0.64
44:CA:185:TYR:HA	44:CA:395:PHE:CE2	2.33	0.64
45:CB:52:ASN:HB2	45:CB:60:VAL:CG1	2.27	0.64
45:CB:149:THR:OG1	45:CB:191:GLN:HB3	1.98	0.64
44:CC:19:ALA:CB	44:CC:228:ASN:HB3	2.28	0.64
44:CC:79:ARG:O	44:CC:84:ARG:HB2	1.98	0.64
44:CC:151:SER:HB3	44:CC:193:SER:OG	1.98	0.64
44:CC:175:PRO:HG2	44:CC:304:LYS:HG2	1.80	0.64
44:CC:193:SER:O	44:CC:197:HIS:HB2	1.98	0.64
44:CE:200:VAL:HG13	44:CE:268:MET:HE2	1.80	0.64
44:CG:11:GLN:HB3	46:CG:501:GTP:O2B	1.97	0.64
44:CG:64:ARG:NH2	44:CG:129:CYS:SG	2.70	0.64
44:CI:384:ILE:O	44:CI:387:VAL:HG22	1.97	0.64
45:CJ:116:VAL:HA	45:CJ:119:VAL:HG12	1.80	0.64
44:CM:98:ASP:OD1	44:CM:99:ALA:N	2.31	0.64
44:DA:70:LEU:HB3	44:DA:98:ASP:HA	1.80	0.64
45:DB:334:GLN:HE22	45:DB:341:PHE:CB	2.10	0.64
44:DC:30:ILE:CD1	44:DC:37:PRO:HD3	2.27	0.64
44:DC:269:LEU:H	44:DC:269:LEU:HD23	1.63	0.64
44:DG:195:LEU:HD13	44:DG:428:LEU:HD11	1.79	0.64
45:DH:329:GLN:O	45:DH:333:VAL:HG23	1.98	0.64
45:DL:381:VAL:O	45:DL:384:GLN:N	2.31	0.64
45:DL:417:ASP:HA	45:DL:420:SER:OG	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:276:ILE:HG23	44:DM:281:ALA:HB2	1.79	0.64
44:DM:344:VAL:HG12	44:DM:347:CYS:CB	2.28	0.64
44:EA:275:ILE:HG23	44:EA:368:LEU:CD1	2.28	0.64
45:EB:263:LEU:HG	45:EB:422:TYR:CE1	2.32	0.64
44:EC:71:GLU:OE1	44:EC:73:THR:N	2.31	0.64
44:EC:133:GLN:HB2	44:EC:252:ILE:HD12	1.79	0.64
44:EC:136:LEU:CD2	44:EC:167:LEU:HD22	2.27	0.64
44:EC:317:MET:O	44:EC:318:MET:HE2	1.98	0.64
44:EC:385:ALA:HB2	44:EC:432:TYR:CG	2.32	0.64
45:ED:324:LYS:HZ1	44:EE:227:LEU:HD11	1.63	0.64
45:ED:337:ASN:O	45:ED:340:TYR:N	2.30	0.64
45:ED:360:GLY:O	45:ED:361:LEU:HD23	1.98	0.64
44:EE:11:GLN:OE1	44:EE:74:VAL:HG21	1.98	0.64
44:EE:287:SER:O	44:EE:291:ILE:HG23	1.98	0.64
44:EE:311:LYS:HB3	44:EE:344:VAL:N	2.13	0.64
45:EF:53:GLU:HA	45:EF:53:GLU:OE1	1.97	0.64
44:EG:210:TYR:CE1	44:EG:227:LEU:HD11	2.33	0.64
45:EH:199:CYS:SG	45:EH:200:MET:N	2.71	0.64
44:EI:291:ILE:HG13	44:EI:292:THR:N	2.13	0.64
45:FB:22:GLU:O	45:FB:25:SER:HB2	1.98	0.64
44:FE:224:TYR:CE2	45:FF:323:THR:HG21	2.33	0.64
44:FE:286:LEU:CD2	44:FE:371:VAL:HG21	2.24	0.64
45:FF:210:ILE:HG12	45:FF:297:LYS:O	1.98	0.64
45:FF:268:ILE:O	45:FF:300:MET:HB2	1.98	0.64
45:FH:378:PHE:HA	45:FH:381:VAL:CG1	2.27	0.64
44:FI:141:VAL:HG12	44:FI:171:ILE:O	1.98	0.64
45:FJ:35:THR:O	45:FJ:37:HIS:ND1	2.29	0.64
44:FK:11:GLN:OE1	45:FL:246:LEU:HD23	1.97	0.64
44:FK:344:VAL:HG11	44:FK:346:TRP:CE2	2.32	0.64
44:FM:109:THR:HG22	44:FM:110:ILE:CD1	2.28	0.64
45:GD:213:ARG:HH21	45:GD:297:LYS:HE2	1.62	0.64
45:GD:420:SER:O	45:GD:423:GLN:HG3	1.98	0.64
44:GE:2:ARG:O	44:GE:51:THR:HA	1.98	0.64
45:GF:139:LEU:CD1	45:GF:168:SER:HB3	2.27	0.64
45:GH:193:VAL:HA	45:GH:264:HIS:CE1	2.33	0.64
44:GI:311:LYS:HZ2	44:GI:342:GLN:HB2	1.62	0.64
45:GJ:7:ILE:O	45:GJ:135:ILE:HG23	1.97	0.64
44:GK:289:ALA:HA	44:GK:292:THR:HG22	1.81	0.64
44:GK:306:ASP:OD2	44:GK:308:ARG:HB2	1.98	0.64
45:GN:134:GLN:HA	45:GN:165:GLU:HB2	1.80	0.64
45:GN:311:LEU:HD21	45:GN:372:THR:CG2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:311:LEU:HD21	45:GN:372:THR:HG23	1.80	0.64
45:HD:178:THR:HG22	45:HD:180:VAL:H	1.63	0.64
44:HG:319:TYR:CD1	44:HG:375:VAL:HG22	2.34	0.64
45:HH:102:ALA:HB2	45:HH:403:MET:HE1	1.78	0.64
45:HH:192:LEU:CD1	45:HH:196:ALA:HB2	2.28	0.64
45:HH:274:THR:HG21	45:HH:279:GLN:HG3	1.80	0.64
44:HI:101:ASN:OD1	45:HJ:252:LYS:HG3	1.98	0.64
44:HM:115:VAL:O	44:HM:119:LEU:HD23	1.97	0.64
44:IA:288:VAL:CA	44:IA:291:ILE:HG12	2.26	0.64
44:IA:417:GLU:O	44:IA:420:GLU:HG2	1.96	0.64
44:IC:54:SER:HB3	44:IC:64:ARG:NH2	2.13	0.64
44:IC:217:LEU:HD13	44:IC:367:ASP:CB	2.28	0.64
44:IE:51:THR:HG21	44:IE:243:ARG:CD	2.26	0.64
44:IG:14:ILE:CD1	44:IG:69:ASP:HB2	2.28	0.64
44:IG:189:LEU:HD11	44:IG:418:PHE:HE1	1.63	0.64
45:IH:294:PHE:CE2	45:IH:333:VAL:HG21	2.33	0.64
44:II:22:GLU:HG3	44:II:83:TYR:HE2	1.63	0.64
45:IJ:113:ILE:CA	45:IJ:116:VAL:HG12	2.26	0.64
45:IL:282:ARG:HH21	45:IL:288:GLU:HB3	1.63	0.64
44:IM:86:LEU:HD23	44:IM:87:PHE:CE2	2.33	0.64
44:IM:221:ARG:NH2	45:IN:321:MET:HE2	2.12	0.64
44:IM:320:ARG:HB2	44:IM:358:GLN:O	1.97	0.64
44:JA:254:GLU:HG2	45:JD:98:GLY:HA2	1.80	0.64
44:JA:254:GLU:HB3	44:JA:258:ASN:ND2	2.13	0.64
45:JH:167:PHE:HE2	45:JH:233:MET:HB3	1.62	0.64
44:JI:68:LEU:CD2	44:JI:93:ILE:HB	2.27	0.64
44:JI:258:ASN:OD1	45:JL:179:VAL:HG22	1.98	0.64
45:JJ:258:ILE:HG13	45:JJ:258:ILE:O	1.98	0.64
44:JK:324:VAL:HG12	44:JK:326:LYS:HG2	1.80	0.64
44:JM:133:GLN:CB	44:JM:252:ILE:HD13	2.27	0.64
45:JN:113:ILE:HA	45:JN:116:VAL:CG1	2.25	0.64
45:JN:223:GLY:O	45:JN:227:HIS:HB2	1.98	0.64
45:JN:294:PHE:CE2	45:JN:333:VAL:HG21	2.33	0.64
44:KA:329:ASN:O	44:KA:332:ILE:HG22	1.98	0.64
45:KB:114:ASP:OD1	45:KB:115:SER:N	2.30	0.64
44:KC:213:CYS:SG	44:KC:217:LEU:HD12	2.37	0.64
44:KE:52:PHE:O	44:KE:64:ARG:HD3	1.98	0.64
44:KE:56:THR:HA	44:LE:285:GLN:NE2	2.13	0.64
44:KE:394:LYS:NZ	44:KE:394:LYS:CE	2.60	0.64
45:KF:382:ALA:HB2	45:KF:415:MET:SD	2.38	0.64
45:KL:268:ILE:HG13	45:KL:300:MET:HE3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:169:PHE:CD1	44:KM:202:VAL:HG21	2.31	0.64
44:LA:233:GLN:OE1	44:LA:233:GLN:HA	1.98	0.64
44:LA:269:LEU:H	44:LA:269:LEU:HD23	1.62	0.64
44:LE:260:VAL:HG13	45:LH:397:TRP:HE1	1.63	0.64
45:LL:190:HIS:CE1	45:LL:414:ASN:HD22	2.15	0.64
45:LN:178:THR:CG2	45:LN:180:VAL:HG12	2.28	0.64
45:LN:286:VAL:CG2	45:LN:325:GLU:HG2	2.27	0.64
45:MB:135:ILE:CG2	45:MB:152:ILE:HD11	2.25	0.64
45:MB:268:ILE:HG22	45:MB:368:VAL:HA	1.79	0.64
45:MF:320:ARG:O	45:MF:363:MET:HE3	1.98	0.64
44:MG:69:ASP:OD1	44:MG:70:LEU:N	2.31	0.64
45:MH:174:LYS:CD	45:MH:175:VAL:HG13	2.27	0.64
45:MH:201:VAL:HG12	45:MH:266:PHE:O	1.97	0.64
45:ML:22:GLU:HG2	45:ML:81:PHE:CD2	2.33	0.64
45:MN:187:LEU:HD11	45:MN:408:PHE:CE1	2.33	0.64
44:NA:88:HIS:HE1	44:NA:90:GLU:HB2	1.60	0.64
44:NA:100:ALA:CB	45:NB:252:LYS:HD3	2.27	0.64
45:NF:289:LEU:O	45:NF:293:MET:HG2	1.98	0.64
44:NI:71:GLU:OE1	44:NI:73:THR:N	2.31	0.64
45:NJ:4:ILE:HG22	45:NJ:132:GLY:H	1.63	0.64
45:NL:166:THR:CG2	45:NL:199:CYS:HA	2.28	0.64
44:OA:54:SER:N	44:OA:62:VAL:HB	2.13	0.64
44:OE:22:GLU:HG2	44:OE:83:TYR:HE2	1.63	0.64
45:OF:152:ILE:HD12	45:OF:164:MET:HE1	1.78	0.64
44:OG:288:VAL:HA	44:OG:291:ILE:CG1	2.26	0.64
45:OH:161:ASP:OD1	45:OH:162:ARG:HD2	1.98	0.64
44:OK:136:LEU:HD23	44:OK:167:LEU:HB2	1.80	0.64
45:OL:8:GLN:OE1	45:OL:17:GLY:HA3	1.98	0.64
44:PA:50:ASN:HA	44:PA:53:PHE:O	1.97	0.64
44:PA:184:PRO:O	44:PA:188:ILE:HD12	1.98	0.64
45:PB:316:LEU:N	45:PB:366:THR:O	2.23	0.64
45:PD:3:GLU:HB3	45:PD:49:VAL:HA	1.80	0.64
44:PG:210:TYR:CE1	44:PG:227:LEU:HD11	2.33	0.64
45:PH:97:ALA:HB3	45:PH:143:THR:HB	1.80	0.64
45:PH:152:ILE:HD12	45:PH:164:MET:CE	2.28	0.64
44:PI:247:ALA:HB2	44:PI:357:TYR:OH	1.98	0.64
44:PI:315:CYS:HA	44:PI:379:SER:HB3	1.80	0.64
44:PM:228:ASN:OD1	46:PM:501:GTP:N1	2.29	0.64
45:PN:86:ARG:NH1	45:QL:281:TYR:HB2	2.13	0.64
44:QC:231:ILE:O	44:QC:234:VAL:HG12	1.98	0.64
44:QC:296:PHE:HD2	44:QC:341:ILE:HD13	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:1:MET:HE2	44:QE:96:LYS:HD3	1.78	0.64
45:QD:117:LEU:HA	45:QD:120:VAL:HG12	1.79	0.64
44:QE:194:LEU:HB2	44:QE:198:THR:OG1	1.98	0.64
44:QE:317:MET:HE2	44:QE:375:VAL:HG21	1.78	0.64
45:QF:12:CYS:O	45:QF:16:ILE:HG12	1.98	0.64
45:QF:304:ASP:OD1	45:QF:305:PRO:HD2	1.98	0.64
45:QF:314:SER:CB	45:QF:350:LYS:HB3	2.28	0.64
44:QG:88:HIS:HB3	44:QG:91:GLN:CG	2.28	0.64
44:QG:141:VAL:HG21	44:QG:187:SER:HA	1.79	0.64
44:QG:377:MET:SD	44:QG:379:SER:HB3	2.38	0.64
45:QH:45:GLU:O	45:QH:46:ARG:HD2	1.98	0.64
44:QI:70:LEU:HD13	44:QI:110:ILE:CD1	2.28	0.64
44:RC:199:ASP:O	44:RC:266:HIS:HB2	1.98	0.64
44:RE:213:CYS:SG	44:RE:217:LEU:HD12	2.38	0.64
44:RG:419:SER:HA	44:RG:422:ARG:NH1	2.13	0.64
45:RJ:210:ILE:HD13	45:RJ:300:MET:HG2	1.77	0.64
45:RL:295:ASP:OD1	45:RL:297:LYS:N	2.31	0.64
44:RM:188:ILE:HG23	44:RM:425:LEU:HD11	1.80	0.64
44:SA:123:ARG:HH12	44:SA:126:ALA:HB3	1.62	0.64
44:SA:348:PRO:HB2	45:SB:384:GLN:OE1	1.98	0.64
45:SB:248:SER:CA	45:SB:252:LYS:HD2	2.24	0.64
45:SD:86:ARG:NE	45:SD:87:PRO:HD2	2.13	0.64
44:SE:385:ALA:HB2	44:SE:432:TYR:CG	2.33	0.64
45:SF:68:LEU:CD2	45:SF:97:ALA:HB2	2.25	0.64
45:SH:234:SER:O	45:SH:238:CYS:HB3	1.98	0.64
45:SH:288:GLU:O	45:SH:291:GLN:HG3	1.98	0.64
45:SJ:405:GLU:O	45:SJ:409:THR:N	2.31	0.64
45:SN:371:SER:O	45:SN:422:TYR:OH	2.09	0.64
44:TC:248:LEU:HD11	48:TD:501:GDP:H3'	1.80	0.64
44:TC:402:ARG:HH12	44:TC:406:HIS:N	1.96	0.64
44:TE:201:ALA:N	44:TE:266:HIS:O	2.31	0.64
45:TF:150:LEU:O	45:TF:154:LYS:N	2.31	0.64
45:TF:193:VAL:HA	45:TF:264:HIS:NE2	2.13	0.64
45:TF:228:LEU:HD22	45:TF:273:LEU:HD11	1.80	0.64
44:TI:70:LEU:HD22	44:TI:110:ILE:HG22	1.78	0.64
45:TJ:295:ASP:HB3	45:TJ:298:ASN:HB2	1.79	0.64
45:TJ:330:MET:HE3	45:TJ:349:ILE:HG22	1.78	0.64
44:TM:313:MET:HA	44:TM:313:MET:HE2	1.80	0.64
44:UA:75:ILE:HG22	44:UA:79:ARG:NH2	2.13	0.64
45:UB:347:ASN:OD1	44:UC:394:LYS:NZ	2.31	0.64
44:UC:70:LEU:O	44:UC:72:PRO:HD3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:116:VAL:O	45:UF:119:VAL:HG12	1.98	0.64
44:UG:70:LEU:HD12	44:UG:145:THR:OG1	1.98	0.64
45:UH:396:HIS:HA	45:UH:399:THR:OG1	1.98	0.64
44:UI:239:THR:OG1	44:UI:243:ARG:NH2	2.30	0.64
44:UI:383:ALA:O	44:UI:386:GLU:HG2	1.97	0.64
45:UJ:60:VAL:HG23	45:UJ:84:LEU:O	1.98	0.64
45:UL:103:LYS:N	45:UL:401:GLU:OE1	2.31	0.64
44:UM:132:LEU:HD11	44:UM:135:PHE:CE1	2.32	0.64
44:UM:270:SER:HB2	44:UM:378:ILE:HG13	1.80	0.64
44:VA:223:THR:O	44:VA:226:ASN:N	2.31	0.64
44:VC:287:SER:O	44:VC:290:GLU:HG2	1.98	0.64
45:VD:205:GLU:O	45:VD:208:TYR:N	2.30	0.64
44:VE:11:GLN:NE2	45:VF:247:ASN:H	1.96	0.64
44:VG:262:TYR:HE1	45:VJ:393:ALA:HA	1.61	0.64
44:VG:311:LYS:O	44:VG:381:SER:HB2	1.97	0.64
45:VJ:1:MET:O	45:VJ:2:ARG:HG2	1.97	0.64
45:VJ:3:GLU:OE2	45:VJ:127:CYS:HB2	1.98	0.64
45:VL:3:GLU:HG3	45:VL:127:CYS:HB2	1.79	0.64
45:VL:8:GLN:NE2	45:VL:65:LEU:HG	2.13	0.64
45:VL:267:MET:CE	45:VL:301:CYS:HB2	2.28	0.64
45:VL:318:ARG:CB	45:VL:354:CYS:HB3	2.27	0.64
45:VN:257:LEU:HB3	45:VN:266:PHE:CE1	2.33	0.64
44:WC:71:GLU:OE1	44:WC:73:THR:N	2.30	0.64
45:WD:207:LEU:O	45:WD:211:CYS:N	2.31	0.64
44:WE:209:ILE:HG12	44:WE:302:MET:SD	2.38	0.64
44:WK:221:ARG:O	44:WK:221:ARG:HG2	1.98	0.64
44:WK:287:SER:O	44:WK:291:ILE:HG23	1.97	0.64
44:WM:304:LYS:NZ	44:WM:387:VAL:HG12	2.13	0.64
45:WN:139:LEU:HD23	45:WN:188:SER:OG	1.98	0.64
5:0D:190:THR:HA	44:FA:219:ILE:CD1	2.28	0.63
20:1J:138:PHE:O	44:IE:370:LYS:HE2	1.98	0.63
20:1J:157:PRO:HB3	45:IH:279:GLN:HE22	1.64	0.63
26:2R:504:GLU:OE2	44:EG:39:ASP:HA	1.98	0.63
13:3T:74:ILE:HD11	44:MK:159:VAL:O	1.97	0.63
15:3V:38:PHE:CD2	44:MA:177:VAL:HG21	2.33	0.63
37:5D:34:PHE:CE1	44:KK:431:ASP:CG	2.71	0.63
38:5G:143:GLY:N	45:OL:279:GLN:HE21	1.93	0.63
40:6F:21:VAL:HG12	40:6F:23:ILE:HG12	1.80	0.63
35:6R:268:GLU:HB2	45:DN:280:GLN:CD	2.17	0.63
35:6R:319:PRO:CB	45:CN:227:HIS:HB3	2.10	0.63
44:AA:417:GLU:O	44:AA:420:GLU:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:218:ASP:O	44:AC:219:ILE:HD13	1.96	0.63
44:AE:205:ASP:OD1	44:AE:303:ALA:HA	1.96	0.63
44:AE:271:SER:HB2	44:AE:377:MET:SD	2.38	0.63
45:AF:398:TYR:HB3	45:AF:403:MET:HE3	1.79	0.63
44:AI:63:PRO:HG3	44:AI:86:LEU:HG	1.80	0.63
44:AI:390:ARG:HG3	44:AI:391:LEU:HD12	1.80	0.63
44:AI:398:MET:CE	45:AJ:345:ILE:HG13	2.28	0.63
44:AK:210:TYR:CE1	44:AK:227:LEU:HD11	2.33	0.63
44:AK:265:ILE:HD12	44:AK:432:TYR:HE1	1.61	0.63
44:AK:276:ILE:HD11	44:AK:280:LYS:O	1.98	0.63
45:AL:256:ASN:ND2	45:AL:350:LYS:HD2	2.13	0.63
45:AN:49:VAL:HG21	45:AN:241:ARG:HD3	1.78	0.63
45:AN:86:ARG:HD2	45:BN:281:TYR:HB2	1.79	0.63
44:BA:434:GLU:O	44:BA:437:ILE:HG12	1.99	0.63
44:BG:31:GLN:HB3	44:BG:32:PRO:HD2	1.78	0.63
45:BH:7:ILE:HB	45:BH:135:ILE:CD1	2.28	0.63
44:BI:60:LYS:HD3	44:CI:283:HIS:CD2	2.33	0.63
45:BJ:146:GLY:O	45:BJ:149:THR:HG22	1.98	0.63
44:BM:145:THR:O	44:BM:149:LEU:HB2	1.98	0.63
45:BN:67:ASP:HA	45:BN:147:MET:HE1	1.79	0.63
45:BN:260:PHE:HB3	45:BN:261:PRO:HD2	1.80	0.63
45:CB:66:MET:O	45:CB:73:MET:HE2	1.97	0.63
44:CC:155:GLU:HG2	44:CC:197:HIS:NE2	2.12	0.63
44:CC:208:ALA:O	44:CC:212:ILE:HG12	1.97	0.63
45:CF:18:ALA:HB2	45:CF:76:VAL:CG2	2.27	0.63
44:CG:421:ALA:O	44:CG:425:LEU:HD23	1.98	0.63
45:CH:86:ARG:HD2	45:DH:281:TYR:CB	2.29	0.63
45:CH:152:ILE:HD12	45:CH:164:MET:HE1	1.79	0.63
44:CI:6:SER:O	44:CI:7:ILE:HD13	1.98	0.63
44:CI:183:GLU:HG2	44:CI:184:PRO:HD3	1.80	0.63
45:CJ:62:ARG:HD2	45:CJ:123:GLU:OE1	1.98	0.63
44:CK:271:SER:O	44:CK:377:MET:HG3	1.98	0.63
45:CL:206:ALA:O	45:CL:210:ILE:HG13	1.98	0.63
45:CL:207:LEU:HD21	45:CL:300:MET:CE	2.26	0.63
44:DA:384:ILE:O	44:DA:387:VAL:HG22	1.97	0.63
44:DC:2:ARG:HG2	44:DC:51:THR:HG22	1.80	0.63
44:DC:50:ASN:HA	44:DC:53:PHE:O	1.97	0.63
44:DE:1:MET:HG3	44:DE:2:ARG:HH11	1.63	0.63
45:DF:279:GLN:CG	45:DF:361:LEU:HD21	2.27	0.63
45:DH:198:GLU:OE2	45:DH:254:ALA:HB2	1.99	0.63
44:DK:204:LEU:CD1	44:DK:231:ILE:HD11	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:137:HIS:O	45:DN:168:SER:HA	1.98	0.63
45:DN:334:GLN:O	45:DN:338:SER:N	2.31	0.63
45:EB:331:LEU:HD12	45:EB:332:ASN:N	2.13	0.63
45:ED:102:ALA:HB2	45:ED:398:TYR:CD1	2.32	0.63
45:EF:42:LEU:HA	45:EF:45:GLU:CG	2.20	0.63
44:EG:316:SER:CB	44:EG:352:LYS:HB3	2.28	0.63
45:EJ:271:ALA:HB1	45:EJ:272:PRO:HA	1.80	0.63
44:EK:138:PHE:CD2	44:EK:169:PHE:HB2	2.33	0.63
44:EM:37:PRO:HB2	44:EM:40:LYS:H	1.63	0.63
44:EM:175:PRO:HG2	44:EM:304:LYS:HG2	1.79	0.63
44:FA:257:THR:HG22	45:FD:397:TRP:CH2	2.33	0.63
45:FB:213:ARG:HB3	45:FB:297:LYS:HZ2	1.63	0.63
44:FC:339:ARG:HG3	44:FC:339:ARG:O	1.98	0.63
45:FF:135:ILE:HG12	45:FF:164:MET:HE3	1.80	0.63
45:FJ:294:PHE:CE2	45:FJ:333:VAL:HG11	2.32	0.63
44:FK:109:THR:HG22	44:FK:110:ILE:HG23	1.80	0.63
45:FN:178:THR:HG22	45:FN:180:VAL:HG12	1.81	0.63
44:GA:320:ARG:CD	44:GA:360:PRO:HG3	2.27	0.63
44:GA:326:LYS:HZ2	45:GD:208:TYR:HB3	1.63	0.63
44:GA:389:SER:HA	44:GA:429:GLU:OE2	1.98	0.63
44:GC:101:ASN:HD22	44:GC:144:GLY:N	1.96	0.63
44:GE:118:CYS:SG	44:GE:153:LEU:HD21	2.39	0.63
44:GI:313:MET:HB2	44:GI:380:ASN:O	1.98	0.63
45:GL:299:MET:CE	45:GL:305:PRO:HB3	2.28	0.63
44:HC:191:THR:HA	44:HC:194:LEU:CG	2.27	0.63
44:HC:318:MET:O	44:HC:375:VAL:HG23	1.97	0.63
45:HD:113:ILE:HA	45:HD:116:VAL:HG12	1.80	0.63
45:HD:284:LEU:HD13	45:HD:362:LYS:HE2	1.79	0.63
44:HE:319:TYR:HE2	44:HE:328:VAL:HG22	1.63	0.63
44:HE:319:TYR:CD1	44:HE:375:VAL:HG22	2.32	0.63
44:HG:407:TRP:HH2	45:HH:254:ALA:HB1	1.63	0.63
44:HI:177:VAL:CG1	45:HJ:327:ASP:HB3	2.28	0.63
45:HL:7:ILE:HB	45:HL:135:ILE:CD1	2.27	0.63
45:HL:268:ILE:CG2	45:HL:368:VAL:HG22	2.28	0.63
45:IB:67:ASP:OD1	45:IB:68:LEU:N	2.31	0.63
44:IE:34:GLY:HA3	44:IE:60:LYS:HB2	1.81	0.63
44:IE:340:THR:HG23	44:IE:341:ILE:HG12	1.80	0.63
44:IG:137:VAL:HG12	44:IG:167:LEU:O	1.98	0.63
44:IG:230:LEU:HD11	44:IG:275:ILE:HD13	1.81	0.63
44:II:216:ASN:HD22	44:II:275:ILE:HG22	1.61	0.63
45:IJ:242:PHE:CD2	45:IJ:356:ILE:HB	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:262:ARG:HB3	45:IJ:262:ARG:NH1	2.12	0.63
44:IK:11:GLN:HB3	46:IK:501:GTP:O3A	1.98	0.63
45:IL:64:ILE:HG22	45:IL:88:ASP:O	1.98	0.63
44:IM:313:MET:HE2	44:IM:380:ASN:C	2.19	0.63
44:JA:139:ASN:OD1	44:JA:170:THR:HG22	1.99	0.63
44:JA:195:LEU:O	44:JA:195:LEU:HD23	1.97	0.63
45:JB:20:PHE:CE1	45:JB:24:ILE:HG13	2.33	0.63
45:JB:21:TRP:HZ3	45:JB:50:TYR:HB3	1.62	0.63
44:JE:31:GLN:HG3	44:JE:32:PRO:HD2	1.79	0.63
44:JG:223:THR:HG23	44:JG:226:ASN:H	1.63	0.63
45:JH:271:ALA:HB2	45:JH:298:ASN:HD21	1.63	0.63
45:JJ:325:GLU:HA	45:JJ:328:GLU:HG2	1.80	0.63
44:JK:74:VAL:O	44:JK:77:GLU:HG3	1.97	0.63
44:JM:188:ILE:HD12	44:JM:425:LEU:HG	1.79	0.63
44:KC:287:SER:O	44:KC:291:ILE:HG23	1.98	0.63
45:KD:233:MET:O	45:KD:236:VAL:HG12	1.98	0.63
45:KD:345:ILE:HG23	45:KD:348:ASN:HB3	1.79	0.63
45:KF:67:ASP:OD1	45:KF:68:LEU:N	2.31	0.63
45:KF:248:SER:CA	45:KF:252:LYS:HD2	2.27	0.63
45:KH:173:PRO:HG2	45:KH:380:ARG:HD3	1.79	0.63
45:KL:368:VAL:O	45:KL:368:VAL:HG13	1.97	0.63
45:LF:62:ARG:HH12	45:LF:127:CYS:CB	2.10	0.63
45:LF:325:GLU:O	45:LF:328:GLU:HG3	1.99	0.63
45:LH:321:MET:HE3	45:LH:353:ILE:HD12	1.79	0.63
44:LI:259:LEU:HD21	44:LI:316:SER:HB2	1.80	0.63
44:LI:377:MET:HE3	44:LI:379:SER:HB3	1.80	0.63
44:LK:71:GLU:HG3	45:LL:247:ASN:ND2	2.09	0.63
45:LL:45:GLU:C	45:LL:46:ARG:HD2	2.17	0.63
45:LN:404:ASP:OD1	45:LN:407:GLU:HG2	1.98	0.63
45:MB:260:PHE:HB3	45:MB:261:PRO:HD2	1.80	0.63
44:MC:386:GLU:HA	44:MC:389:SER:OG	1.98	0.63
45:MF:73:MET:HE3	45:MF:92:PHE:HB3	1.80	0.63
44:MG:167:LEU:CD2	44:MG:252:ILE:HD11	2.28	0.63
44:MG:189:LEU:HD11	44:MG:418:PHE:CE1	2.32	0.63
45:MH:135:ILE:O	45:MH:166:THR:HA	1.98	0.63
45:MH:207:LEU:HB3	45:MH:225:LEU:HD22	1.80	0.63
44:MI:203:MET:HA	44:MI:203:MET:CE	2.29	0.63
45:ML:226:ASN:O	45:ML:229:VAL:HG12	1.97	0.63
44:MM:68:LEU:CD2	44:MM:93:ILE:HB	2.28	0.63
45:MN:139:LEU:HD22	45:MN:188:SER:HB2	1.80	0.63
44:NA:232:ALA:HA	44:NA:235:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:326:LYS:HE2	45:ND:219:THR:CG2	2.22	0.63
45:NB:238:CYS:CB	45:NB:318:ARG:HE	2.11	0.63
45:NB:242:PHE:CG	45:NB:356:ILE:HG13	2.33	0.63
44:NC:99:ALA:HA	44:NC:105:ARG:HD2	1.80	0.63
44:NC:257:THR:HA	45:NF:397:TRP:CZ2	2.33	0.63
44:NE:259:LEU:HD21	44:NE:316:SER:CB	2.28	0.63
45:NF:25:SER:OG	45:NF:30:ILE:O	2.15	0.63
45:NF:204:ASN:O	45:NF:207:LEU:HB2	1.97	0.63
45:NF:309:ARG:NH2	45:NF:342:VAL:HA	2.13	0.63
44:NI:97:GLU:OE1	44:NI:98:ASP:N	2.30	0.63
44:NK:100:ALA:O	45:NL:255:VAL:HG11	1.98	0.63
45:NL:68:LEU:HB3	45:NL:96:GLY:HA2	1.79	0.63
44:NM:272:TYR:CD1	44:NM:376:CYS:HB2	2.33	0.63
45:NN:2:ARG:HH22	45:NN:46:ARG:HD2	1.63	0.63
45:NN:183:TYR:O	45:NN:186:THR:HG22	1.98	0.63
45:NN:395:LEU:O	45:NN:399:THR:HG23	1.97	0.63
44:OA:263:PRO:HG3	45:OD:396:HIS:ND1	2.13	0.63
45:OB:3:GLU:HA	45:OB:49:VAL:HG23	1.79	0.63
44:OC:320:ARG:CD	44:OC:360:PRO:HG3	2.28	0.63
45:OD:26:ASP:OD1	45:OD:27:GLU:N	2.31	0.63
45:OD:240:LEU:O	45:OD:240:LEU:HD23	1.97	0.63
44:OE:248:LEU:HD11	45:OH:222:TYR:CE2	2.33	0.63
45:OH:200:MET:CE	45:OH:268:ILE:HG23	2.28	0.63
44:OI:108:TYR:HD2	44:OI:413:MET:HE1	1.63	0.63
44:OK:93:ILE:HG23	44:OK:117:LEU:HD23	1.80	0.63
44:OK:96:LYS:HD3	45:OL:129:CYS:HB2	1.80	0.63
44:OK:213:CYS:CA	44:OK:217:LEU:HB2	2.27	0.63
44:OK:253:THR:HG22	45:ON:98:GLY:HA3	1.78	0.63
45:ON:417:ASP:O	45:ON:421:GLU:HG3	1.98	0.63
44:PC:274:PRO:HD3	44:PC:291:ILE:CG2	2.29	0.63
45:PF:229:VAL:HG22	45:PF:233:MET:HG2	1.80	0.63
45:PH:267:MET:CE	45:PH:371:SER:HB3	2.27	0.63
45:PJ:1:MET:O	45:PJ:2:ARG:HG2	1.98	0.63
45:PJ:7:ILE:HG23	45:PJ:64:ILE:HG22	1.79	0.63
44:QA:195:LEU:HD11	44:QA:428:LEU:HD13	1.80	0.63
44:QC:161:TYR:O	44:QC:164:LYS:NZ	2.31	0.63
45:QD:52:ASN:OD1	45:QD:62:ARG:NH2	2.30	0.63
45:QD:248:SER:CA	45:QD:252:LYS:HD2	2.23	0.63
44:QE:271:SER:O	44:QE:377:MET:HG3	1.97	0.63
45:QF:183:TYR:OH	45:QF:388:MET:HG2	1.96	0.63
45:QF:201:VAL:HG23	45:QF:301:CYS:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:200:VAL:HG21	44:QI:256:GLN:HB3	1.79	0.63
45:QJ:25:SER:HA	45:QJ:30:ILE:HG12	1.80	0.63
44:QK:8:HIS:CD2	44:QK:138:PHE:HB2	2.33	0.63
44:QK:149:LEU:O	44:QK:153:LEU:HG	1.97	0.63
44:QK:169:PHE:CD1	44:QK:202:VAL:HB	2.32	0.63
45:QL:270:PHE:HE2	45:QL:273:LEU:HD21	1.62	0.63
45:QL:289:LEU:HD11	45:QL:363:MET:HG2	1.80	0.63
45:QL:290:THR:HA	45:QL:293:MET:HG3	1.79	0.63
45:QL:310:TYR:CD1	45:QL:371:SER:HB2	2.32	0.63
44:RC:53:PHE:CB	44:RC:61:HIS:HB3	2.28	0.63
45:RD:5:VAL:HG11	45:RD:123:GLU:HG3	1.79	0.63
45:RD:204:ASN:HA	45:RD:207:LEU:HG	1.79	0.63
45:RD:396:HIS:HA	45:RD:399:THR:OG1	1.99	0.63
45:RH:316:LEU:HG	45:RH:352:SER:OG	1.97	0.63
44:RI:232:ALA:O	44:RI:235:ILE:N	2.31	0.63
45:RJ:144:GLY:N	48:RJ:501:GDP:O1B	2.30	0.63
45:RJ:318:ARG:CB	45:RJ:364:ALA:HB3	2.26	0.63
45:SB:47:ILE:HG12	45:SB:59:TYR:CE2	2.33	0.63
45:SB:114:ASP:O	45:SB:118:ASP:N	2.30	0.63
44:SE:5:ILE:HD12	44:SE:132:LEU:HD11	1.79	0.63
45:SJ:286:VAL:HA	45:SJ:289:LEU:CD1	2.28	0.63
44:SK:20:CYS:HA	44:SK:232:ALA:HB1	1.81	0.63
45:TB:237:THR:HG23	45:TB:241:ARG:HH21	1.63	0.63
45:TB:310:TYR:CE1	45:TB:371:SER:HB2	2.33	0.63
44:TC:346:TRP:CD1	45:TD:391:ARG:HG3	2.32	0.63
45:TF:6:HIS:HB3	45:TF:63:ALA:HB2	1.80	0.63
45:TF:341:PHE:CE1	45:TF:349:ILE:HD11	2.33	0.63
45:TJ:169:VAL:HG13	45:TJ:202:ILE:O	1.98	0.63
44:TK:328:VAL:HG21	44:TK:355:ILE:HD11	1.80	0.63
45:TN:19:LYS:O	45:TN:22:GLU:HB2	1.98	0.63
44:UA:122:ILE:HG21	44:UA:157:LEU:HD11	1.79	0.63
44:UE:276:ILE:HD13	44:UE:281:ALA:HA	1.79	0.63
45:UF:332:ASN:HA	45:UF:336:LYS:NZ	2.13	0.63
44:UG:254:GLU:HG2	45:UH:98:GLY:CA	2.20	0.63
44:UI:9:VAL:HG13	44:UI:139:ASN:HB3	1.79	0.63
44:UK:353:VAL:HG12	45:UL:177:ASP:CB	2.27	0.63
44:UK:423:GLU:HA	44:UK:426:ALA:HB3	1.80	0.63
44:UM:73:THR:O	44:UM:77:GLU:HG2	1.96	0.63
44:VA:349:THR:O	45:VD:179:VAL:HG23	1.98	0.63
45:VB:7:ILE:HG23	45:VB:64:ILE:O	1.99	0.63
44:VC:54:SER:HB3	44:VC:64:ARG:CZ	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:151:LEU:O	45:VD:155:VAL:HG22	1.97	0.63
44:VG:88:HIS:CE1	44:VG:90:GLU:HG2	2.33	0.63
45:VJ:17:GLY:O	45:VJ:20:PHE:N	2.31	0.63
45:VJ:105:HIS:CE1	45:VJ:150:LEU:HD12	2.32	0.63
45:VL:99:ASN:HA	45:VL:142:GLY:HA3	1.80	0.63
45:VL:100:ASN:O	45:VL:103:LYS:N	2.31	0.63
44:VM:419:SER:O	44:VM:423:GLU:HG3	1.98	0.63
45:VN:68:LEU:CD2	45:VN:97:ALA:HB2	2.25	0.63
45:VN:152:ILE:HG23	45:VN:164:MET:HE1	1.80	0.63
44:WA:315:CYS:HA	44:WA:379:SER:CB	2.28	0.63
44:WC:289:ALA:O	44:WC:292:THR:OG1	2.15	0.63
44:WC:311:LYS:HE2	44:WC:342:GLN:HE21	1.60	0.63
45:WH:117:LEU:O	45:WH:120:VAL:HG12	1.97	0.63
45:WN:117:LEU:HG	45:WN:121:ARG:NH1	2.13	0.63
10:ON:1:MET:O	44:IM:96:LYS:HE3	1.96	0.63
22:1L:283:ARG:HH11	45:BH:357:PRO:HD3	1.60	0.63
24:1O:156:ARG:CD	44:UE:370:LYS:HE2	2.27	0.63
22:2L:489:ASN:O	35:6R:220:ILE:HD12	1.98	0.63
25:2P:355:GLN:OE1	45:TN:360:GLY:HA2	1.97	0.63
2:3A:50:PRO:HA	45:MN:41:ASP:OD2	1.97	0.63
26:3R:143:ASN:ND2	45:BN:219:THR:OG1	2.29	0.63
26:3R:283:ARG:HH12	44:CK:45:GLY:HA2	1.62	0.63
35:4R:29:GLN:NE2	44:LC:50:ASN:HB2	2.13	0.63
35:5R:220:ILE:CG2	35:5R:221:PRO:HD2	2.27	0.63
11:6Q:75:PHE:HB2	11:6Q:169:ASP:HA	1.80	0.63
42:8L:195:UNK:O	42:8L:199:UNK:N	2.30	0.63
45:AB:317:PHE:CE2	45:AB:326:VAL:HG13	2.32	0.63
45:AD:34:GLY:HA3	45:AD:58:ARG:HG3	1.80	0.63
44:AE:386:GLU:O	44:AE:389:SER:OG	2.10	0.63
44:AK:210:TYR:CZ	45:AL:324:LYS:HE2	2.33	0.63
45:AL:68:LEU:HD21	45:AL:108:GLU:HG2	1.79	0.63
44:AM:269:LEU:HD23	44:AM:269:LEU:H	1.63	0.63
45:BD:152:ILE:O	45:BD:155:VAL:HG22	1.98	0.63
44:BG:129:CYS:CB	44:BG:132:LEU:HD21	2.27	0.63
44:BG:155:GLU:HG2	44:BG:197:HIS:CD2	2.33	0.63
45:BH:261:PRO:HG2	45:BH:262:ARG:NH1	2.13	0.63
44:BM:54:SER:HB3	44:BM:64:ARG:CZ	2.28	0.63
45:CB:97:ALA:CB	45:CB:143:THR:HA	2.28	0.63
45:CD:256:ASN:ND2	45:CD:350:LYS:HD2	2.13	0.63
45:CF:361:LEU:HB3	45:CF:362:LYS:O	1.97	0.63
45:CH:69:GLU:OE1	45:CH:71:GLY:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:167:PHE:CE1	45:CJ:200:MET:HB2	2.33	0.63
44:CK:101:ASN:HA	44:CK:144:GLY:N	2.13	0.63
44:CK:184:PRO:HG2	44:CK:398:MET:HE1	1.79	0.63
45:CN:268:ILE:O	45:CN:300:MET:HE2	1.99	0.63
45:DB:24:ILE:HA	45:DB:27:GLU:CD	2.18	0.63
45:DB:183:TYR:OH	45:DB:388:MET:HB3	1.98	0.63
45:DB:325:GLU:H	44:DC:221:ARG:NH1	1.95	0.63
44:DC:273:ALA:HB1	44:DC:274:PRO:HA	1.80	0.63
44:DE:56:THR:OG1	44:EE:285:GLN:NE2	2.30	0.63
44:DG:137:VAL:CG1	44:DG:168:GLY:HA2	2.28	0.63
44:DG:264:ARG:HH21	44:DG:431:ASP:HA	1.63	0.63
44:DI:308:ARG:HD3	44:DI:340:THR:CG2	2.28	0.63
45:DJ:285:THR:O	45:DJ:288:GLU:N	2.30	0.63
45:DJ:299:MET:HE2	45:DJ:305:PRO:HG3	1.80	0.63
44:DK:89:PRO:CB	44:EK:280:LYS:HE2	2.27	0.63
44:DM:23:LEU:O	44:DM:27:GLU:OE1	2.16	0.63
44:DM:76:ASP:OD1	44:DM:79:ARG:NH2	2.31	0.63
45:EB:54:ALA:HA	45:FB:283:ALA:HB2	1.80	0.63
45:EB:175:VAL:HG22	45:EB:205:GLU:HB2	1.79	0.63
45:EB:184:ASN:OD1	45:EB:185:ALA:N	2.30	0.63
45:EB:289:LEU:HD11	45:EB:363:MET:HB3	1.80	0.63
44:EC:287:SER:N	44:EC:290:GLU:OE2	2.29	0.63
45:EF:119:VAL:O	45:EF:122:LYS:HG2	1.98	0.63
45:EF:246:LEU:HA	44:EG:11:GLN:HE22	1.63	0.63
44:EG:259:LEU:HD23	44:EG:259:LEU:O	1.98	0.63
45:EH:24:ILE:HG23	45:EH:28:HIS:HD2	1.63	0.63
45:EJ:190:HIS:CE1	45:EJ:411:ALA:HA	2.33	0.63
45:EJ:287:PRO:O	45:EJ:290:THR:HG22	1.98	0.63
44:EK:268:MET:CB	44:EK:380:ASN:HA	2.28	0.63
44:EM:208:ALA:O	44:EM:212:ILE:HG12	1.99	0.63
44:EM:288:VAL:HA	44:EM:291:ILE:CG1	2.28	0.63
45:FB:260:PHE:HB2	45:FB:263:LEU:CD1	2.29	0.63
45:FB:313:ALA:HB1	45:FB:367:PHE:CE1	2.33	0.63
44:FC:318:MET:SD	44:FC:354:GLY:HA3	2.38	0.63
44:FE:1:MET:O	44:FE:1:MET:HG3	1.98	0.63
44:FG:270:SER:CB	44:FG:378:ILE:HD13	2.28	0.63
44:FI:237:SER:HG	44:FI:272:TYR:HE1	1.47	0.63
45:FN:113:ILE:HD11	45:FN:151:LEU:CA	2.28	0.63
44:GA:200:VAL:CG2	44:GA:256:GLN:HB3	2.28	0.63
44:GC:34:GLY:O	44:GC:60:LYS:HA	1.98	0.63
45:GD:46:ARG:HG3	45:GD:49:VAL:HG23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:99:ASN:CA	45:GD:142:GLY:HA3	2.17	0.63
45:GD:113:ILE:HD13	45:GD:150:LEU:HD22	1.78	0.63
44:GE:276:ILE:CD1	44:GE:281:ALA:HA	2.28	0.63
44:GE:348:PRO:HB3	45:GH:384:GLN:CD	2.18	0.63
45:GF:330:MET:O	45:GF:349:ILE:HD13	1.98	0.63
44:GG:270:SER:CB	44:GG:378:ILE:HD13	2.28	0.63
44:GI:9:VAL:HG11	44:GI:150:GLY:HA2	1.80	0.63
44:GI:408:TYR:HB3	44:GI:413:MET:HE3	1.80	0.63
44:GK:363:VAL:CG2	44:GK:364:PRO:HD2	2.28	0.63
44:GM:30:ILE:HG23	44:GM:36:MET:HE3	1.80	0.63
44:GM:188:ILE:HD12	44:GM:425:LEU:CD1	2.24	0.63
44:HA:98:ASP:CG	44:HA:100:ALA:H	2.01	0.63
44:HA:203:MET:N	44:HA:268:MET:O	2.32	0.63
45:HB:25:SER:O	45:HB:29:GLY:N	2.30	0.63
45:HB:221:THR:HG23	45:HB:223:GLY:H	1.62	0.63
45:HB:262:ARG:NH1	45:HB:421:GLU:OE1	2.30	0.63
44:HC:212:ILE:CD1	44:HC:300:ASN:HA	2.28	0.63
45:HF:12:CYS:O	45:HF:16:ILE:HG12	1.98	0.63
44:HG:105:ARG:O	44:HG:110:ILE:HG12	1.99	0.63
44:HG:195:LEU:HD21	44:HG:264:ARG:HH21	1.63	0.63
44:HI:55:GLU:HG3	44:HI:57:GLY:H	1.63	0.63
44:HI:270:SER:O	44:HI:302:MET:HB3	1.97	0.63
45:HJ:42:LEU:CA	45:HJ:45:GLU:HG3	2.25	0.63
45:HL:173:PRO:HG3	45:HL:380:ARG:CD	2.28	0.63
45:HN:101:TRP:CD1	45:HN:146:GLY:HA3	2.33	0.63
45:IB:7:ILE:CD1	45:IB:64:ILE:HB	2.29	0.63
45:ID:237:THR:HG23	45:ID:241:ARG:NH2	2.09	0.63
44:IE:141:VAL:HG11	44:IE:172:TYR:CD1	2.32	0.63
44:IG:85:GLN:O	45:JH:281:TYR:OH	2.15	0.63
45:IH:68:LEU:HD11	45:IH:147:MET:CE	2.19	0.63
45:IH:217:LEU:O	45:IH:220:PRO:HD3	1.98	0.63
45:IJ:130:LEU:HD11	45:IJ:133:PHE:CE1	2.32	0.63
45:IJ:286:VAL:HB	45:IJ:325:GLU:OE2	1.98	0.63
45:IL:2:ARG:NH1	45:IL:240:LEU:HG	2.13	0.63
45:IN:1:MET:HE3	45:IN:129:CYS:HB3	1.79	0.63
44:JA:221:ARG:HA	45:JB:325:GLU:OE2	1.98	0.63
45:JB:135:ILE:O	45:JB:166:THR:HA	1.99	0.63
45:JD:115:SER:O	45:JD:119:VAL:HG23	1.99	0.63
44:JG:54:SER:HB3	44:JG:64:ARG:NH2	2.14	0.63
44:JI:202:VAL:HA	44:JI:268:MET:O	1.98	0.63
44:JM:314:ALA:HB3	44:JM:380:ASN:CB	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:49:VAL:HG11	45:JN:241:ARG:CG	2.22	0.63
45:JN:404:ASP:OD1	45:JN:405:GLU:N	2.28	0.63
44:KA:242:LEU:HD21	44:KA:251:ASP:HB3	1.80	0.63
44:KA:378:ILE:HG23	44:KA:378:ILE:O	1.98	0.63
45:KB:117:LEU:HD21	45:KB:154:LYS:NZ	2.13	0.63
44:KG:195:LEU:CD1	44:KG:428:LEU:HD21	2.28	0.63
44:KI:88:HIS:O	44:KI:91:GLN:HG2	1.97	0.63
45:KL:174:LYS:CD	45:KL:175:VAL:HG13	2.27	0.63
45:KN:272:PRO:HD3	45:KN:364:ALA:HA	1.79	0.63
44:LA:221:ARG:NH1	45:LB:325:GLU:OE2	2.31	0.63
45:LB:207:LEU:HD23	45:LB:210:ILE:CD1	2.28	0.63
44:LC:56:THR:HA	44:MC:285:GLN:HB3	1.80	0.63
44:LC:377:MET:SD	44:LC:379:SER:OG	2.50	0.63
44:LI:113:GLU:O	44:LI:114:ILE:HD13	1.97	0.63
45:LJ:45:GLU:O	45:LJ:46:ARG:HD2	1.98	0.63
45:LL:200:MET:HE3	45:LL:268:ILE:HG21	1.81	0.63
45:LL:207:LEU:HD22	45:LL:228:LEU:HD23	1.78	0.63
45:LL:260:PHE:HB3	45:LL:261:PRO:HD2	1.79	0.63
44:MA:88:HIS:HE1	44:MA:90:GLU:HG2	1.63	0.63
45:MB:328:GLU:HG3	45:MB:329:GLN:OE1	1.98	0.63
45:MH:187:LEU:HD11	45:MH:408:PHE:CE1	2.34	0.63
44:NA:1:MET:HG3	45:ND:70:PRO:HG2	1.80	0.63
45:NB:25:SER:OG	45:NB:30:ILE:O	2.15	0.63
45:ND:3:GLU:OE2	45:ND:127:CYS:HB2	1.98	0.63
45:ND:31:ASP:HB2	45:ND:32:PRO:HD2	1.80	0.63
44:NE:14:ILE:HD11	44:NE:69:ASP:HB2	1.80	0.63
44:NE:93:ILE:HD13	44:NE:117:LEU:HB3	1.80	0.63
44:NG:121:ARG:O	44:NG:125:LEU:HG	1.97	0.63
44:NK:53:PHE:CZ	44:NK:63:PRO:HG3	2.33	0.63
44:NK:101:ASN:ND2	44:NK:143:GLY:HA2	2.13	0.63
44:NK:348:PRO:HB2	45:NN:384:GLN:OE1	1.98	0.63
45:NL:25:SER:OG	45:NL:30:ILE:O	2.15	0.63
45:NL:113:ILE:HD13	45:NL:150:LEU:CD2	2.26	0.63
45:NL:372:THR:HG21	45:NL:426:GLN:HG2	1.79	0.63
44:OC:93:ILE:HG21	44:OC:117:LEU:HD23	1.79	0.63
44:OI:329:ASN:HB3	45:OL:175:VAL:CG1	2.28	0.63
44:OI:398:MET:CE	45:OJ:345:ILE:HG22	2.28	0.63
44:OK:175:PRO:HG2	44:OK:176:GLN:OE1	1.98	0.63
44:PA:135:PHE:CB	44:PA:166:LYS:HG2	2.27	0.63
44:PA:195:LEU:CD2	44:PA:428:LEU:HD11	2.28	0.63
44:PC:325:PRO:HD2	44:PC:326:LYS:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:166:THR:O	45:PF:199:CYS:HA	1.98	0.63
45:PH:146:GLY:O	45:PH:149:THR:HG22	1.98	0.63
44:PI:209:ILE:CG2	44:PI:227:LEU:HD22	2.29	0.63
44:PI:258:ASN:HD21	45:PL:178:THR:HG23	1.64	0.63
45:PL:4:ILE:CG2	45:PL:131:GLN:HB3	2.28	0.63
44:PM:23:LEU:HD11	44:PM:361:THR:HG23	1.81	0.63
44:PM:53:PHE:CD2	44:PM:63:PRO:HG3	2.33	0.63
45:QB:164:MET:O	45:QB:197:ASP:HB2	1.98	0.63
44:QC:20:CYS:HB2	44:QC:24:PHE:CE2	2.33	0.63
44:QC:155:GLU:HA	44:QC:197:HIS:CE1	2.32	0.63
44:QC:405:VAL:O	44:QC:408:TYR:N	2.27	0.63
45:QF:117:LEU:HD22	45:QF:154:LYS:CD	2.28	0.63
45:QH:377:MET:O	45:QH:380:ARG:HG2	1.97	0.63
44:QI:137:VAL:CG1	44:QI:168:GLY:HA2	2.27	0.63
45:QJ:130:LEU:HD21	45:QJ:133:PHE:CZ	2.33	0.63
45:QJ:151:LEU:O	45:QJ:155:VAL:HG23	1.99	0.63
45:QJ:255:VAL:HA	44:QK:407:TRP:CZ3	2.32	0.63
44:QK:141:VAL:CG2	44:QK:187:SER:HA	2.24	0.63
44:QM:101:ASN:HA	44:QM:144:GLY:N	2.12	0.63
44:QM:408:TYR:O	44:QM:413:MET:HB2	1.98	0.63
45:QN:105:HIS:CE1	45:QN:150:LEU:HD12	2.32	0.63
44:RA:247:ALA:HB3	44:RA:355:ILE:CG2	2.28	0.63
45:RB:131:GLN:NE2	45:RB:249:ASP:HB2	2.13	0.63
44:RC:353:VAL:HG12	45:RD:177:ASP:HB2	1.79	0.63
45:RD:109:GLY:CA	45:RD:147:MET:HG3	2.29	0.63
45:RD:145:SER:HB2	45:RD:188:SER:HB3	1.80	0.63
45:RD:410:GLU:O	45:RD:413:SER:OG	2.09	0.63
44:RE:247:ALA:HB3	44:RE:355:ILE:HD13	1.80	0.63
44:RE:260:VAL:HG13	44:RE:260:VAL:O	1.98	0.63
44:RI:213:CYS:O	44:RI:217:LEU:N	2.32	0.63
44:RK:108:TYR:HA	44:RK:112:LYS:HE3	1.79	0.63
45:RL:323:THR:HA	45:RL:326:VAL:HG23	1.79	0.63
44:RM:21:TRP:HZ2	44:RM:65:ALA:HB2	1.63	0.63
44:SA:5:ILE:HD13	44:SA:125:LEU:HB3	1.80	0.63
45:SD:101:TRP:CE3	45:SD:187:LEU:HD13	2.32	0.63
45:SD:312:THR:CG2	45:SD:370:ASN:HB3	2.28	0.63
44:SE:54:SER:OG	44:SE:62:VAL:HB	1.97	0.63
45:SF:247:ASN:HD21	44:SG:74:VAL:HG13	1.63	0.63
45:SF:377:MET:O	45:SF:380:ARG:HG2	1.98	0.63
44:SG:298:PRO:HA	44:SG:301:MET:CE	2.28	0.63
44:SI:325:PRO:HG3	44:SI:355:ILE:HD13	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:51:TYR:HB3	45:SJ:59:TYR:HB3	1.80	0.63
45:SN:73:MET:CE	45:SN:92:PHE:HB3	2.27	0.63
45:SN:105:HIS:HA	45:SN:150:LEU:HD12	1.80	0.63
45:TB:99:ASN:HA	45:TB:142:GLY:H	1.61	0.63
44:TE:384:ILE:O	44:TE:387:VAL:HG22	1.98	0.63
45:TF:242:PHE:CD2	45:TF:356:ILE:HD13	2.34	0.63
45:TF:268:ILE:CG2	45:TF:368:VAL:HG22	2.28	0.63
44:TG:254:GLU:CG	45:TH:98:GLY:HA2	2.26	0.63
45:TH:235:GLY:HA2	45:TH:238:CYS:HB3	1.79	0.63
44:TI:9:VAL:CG2	44:TI:139:ASN:HB3	2.26	0.63
44:TI:263:PRO:HD3	45:TJ:396:HIS:CE1	2.33	0.63
45:TJ:423:GLN:HA	45:TJ:426:GLN:OE1	1.98	0.63
44:TK:203:MET:HG3	44:TK:384:ILE:CD1	2.28	0.63
44:TK:288:VAL:HA	44:TK:291:ILE:CG1	2.28	0.63
45:TL:68:LEU:CB	45:TL:96:GLY:HA2	2.29	0.63
45:TN:22:GLU:HG2	45:TN:81:PHE:CG	2.33	0.63
45:TN:68:LEU:HD23	45:TN:143:THR:HB	1.80	0.63
44:UA:97:GLU:HG2	44:UA:105:ARG:HH22	1.63	0.63
44:UA:258:ASN:HD21	45:UB:178:THR:CG2	2.09	0.63
45:UB:21:TRP:CE3	45:UB:61:PRO:HB3	2.33	0.63
45:UB:135:ILE:O	45:UB:167:PHE:N	2.21	0.63
45:UB:346:PRO:CD	44:UC:398:MET:HE3	2.29	0.63
44:UC:321:GLY:CA	44:UC:359:PRO:HB3	2.28	0.63
45:UD:317:PHE:HB3	45:UD:321:MET:HE1	1.80	0.63
45:UF:7:ILE:HG12	45:UF:64:ILE:HB	1.79	0.63
45:UF:174:LYS:CD	45:UF:175:VAL:HG13	2.25	0.63
45:UF:189:VAL:HG12	45:UF:415:MET:HE1	1.81	0.63
44:UG:118:CYS:O	44:UG:122:ILE:N	2.32	0.63
45:UH:252:LYS:HG3	44:UI:101:ASN:OD1	1.98	0.63
45:UL:248:SER:OG	45:UL:253:LEU:HD12	1.98	0.63
45:UL:309:ARG:HH22	45:UL:342:VAL:HA	1.63	0.63
44:VC:73:THR:HB	45:VD:247:ASN:ND2	2.13	0.63
45:VH:290:THR:HG21	45:VH:329:GLN:CD	2.19	0.63
44:VI:221:ARG:HA	45:VJ:324:LYS:CE	2.27	0.63
45:VN:244:GLY:HA2	45:VN:355:ASP:CG	2.18	0.63
44:WA:88:HIS:ND1	44:WA:89:PRO:HD2	2.13	0.63
44:WA:155:GLU:OE1	44:WA:155:GLU:N	2.30	0.63
45:WB:46:ARG:HB3	45:WB:49:VAL:HG23	1.80	0.63
44:WC:90:GLU:HG3	44:WC:121:ARG:NH1	2.11	0.63
45:WD:304:ASP:OD1	45:WD:306:ARG:HG2	1.97	0.63
44:WE:36:MET:O	44:WE:36:MET:HG3	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:205:ASP:OD1	44:WG:206:ASN:N	2.31	0.63
45:WH:342:VAL:HG13	45:WH:345:ILE:HG22	1.80	0.63
44:WI:141:VAL:HG11	44:WI:172:TYR:CD1	2.32	0.63
44:WI:221:ARG:HH21	45:WJ:321:MET:HB2	1.62	0.63
45:WJ:2:ARG:HB2	45:WJ:131:GLN:OE1	1.98	0.63
45:WJ:4:ILE:HG22	45:WJ:132:GLY:N	2.13	0.63
44:WK:213:CYS:SG	44:WK:217:LEU:HD12	2.39	0.63
45:WN:69:GLU:OE1	45:WN:70:PRO:HD2	1.97	0.63
2:0A:34:LEU:CD2	45:MB:42:LEU:HD22	2.28	0.63
4:0C:38:PRO:HB3	44:EI:218:ASP:OD2	1.97	0.63
6:0E:118:ARG:NH2	35:7R:578:TYR:OH	2.32	0.63
7:0F:185:GLU:OE2	44:EE:84:ARG:NH2	2.30	0.63
8:1G:164:PRO:HB2	45:KD:74:ASP:CB	2.27	0.63
8:1G:178:LYS:HZ2	44:LA:329:ASN:HB2	1.63	0.63
19:1I:180:ASP:HB3	45:KH:77:ARG:HD2	1.80	0.63
19:1I:189:PHE:CZ	45:KH:94:GLN:HG3	2.34	0.63
20:1J:50:LYS:HZ2	45:HD:53:GLU:C	1.99	0.63
10:1N:159:PRO:HB3	45:KJ:215:LEU:HD13	1.79	0.63
31:2H:190:GLN:NE2	45:AD:279:GLN:HE21	1.95	0.63
22:3L:57:ARG:NH2	45:AB:47:ILE:H	1.96	0.63
31:4H:193:LEU:CD2	45:AL:362:LYS:HD2	2.29	0.63
35:4R:389:ASN:HB3	45:EF:276:ARG:NH1	2.13	0.63
37:5A:161:ILE:N	44:KC:386:GLU:OE2	2.30	0.63
37:5D:34:PHE:CE2	44:KK:431:ASP:CA	2.64	0.63
38:5G:26:GLY:O	38:5G:27:ARG:HB2	1.96	0.63
35:5R:478:ASN:HB3	35:5R:481:ASN:ND2	2.14	0.63
41:6G:268:VAL:CG1	44:VA:340:THR:HG22	2.28	0.63
11:6Q:33:HIS:CE1	11:6Q:50:MET:HB2	2.32	0.63
11:6Q:115:LYS:HG3	11:6Q:116:PRO:HD2	1.80	0.63
35:6R:90:ARG:CZ	44:AM:42:ILE:CD1	2.76	0.63
35:6R:550:VAL:CG2	35:6R:554:LYS:HE3	2.27	0.63
35:7R:183:CYS:HB2	35:7R:187:THR:CG2	2.27	0.63
35:7R:547:GLU:HG2	35:7R:551:LEU:CD1	2.27	0.63
42:8L:38:UNK:O	42:8L:42:UNK:N	2.31	0.63
44:AA:83:TYR:CD1	44:AA:86:LEU:HD22	2.33	0.63
44:AA:205:ASP:OD1	44:AA:303:ALA:HA	1.98	0.63
44:AA:275:ILE:HG23	44:AA:368:LEU:HD11	1.80	0.63
45:AB:178:THR:CG2	45:AB:180:VAL:HG12	2.29	0.63
44:AC:70:LEU:HD13	44:AC:110:ILE:HD12	1.80	0.63
44:AE:122:ILE:HG22	44:AE:161:TYR:OH	1.98	0.63
44:AE:284:GLU:HG3	44:AE:286:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:3:GLU:OE2	44:AG:129:CYS:HB3	1.99	0.63
44:AG:276:ILE:CD1	44:AG:281:ALA:HA	2.29	0.63
45:AH:6:HIS:CE1	45:AH:8:GLN:HB3	2.34	0.63
44:AI:258:ASN:HD21	44:AI:352:LYS:HB2	1.63	0.63
44:AI:388:PHE:O	44:AI:392:ASP:HB2	1.98	0.63
44:AI:398:MET:CE	45:AJ:346:PRO:HD2	2.28	0.63
45:AJ:113:ILE:HD12	45:AJ:150:LEU:HG	1.81	0.63
44:AK:276:ILE:HG23	44:AK:281:ALA:HB2	1.80	0.63
45:AN:16:ILE:HD13	45:AN:226:ASN:HD22	1.64	0.63
44:BE:191:THR:CG2	44:BE:425:LEU:HD21	2.29	0.63
45:BF:309:ARG:NH2	45:BF:426:GLN:O	2.30	0.63
45:BH:299:MET:SD	45:BH:305:PRO:HG3	2.39	0.63
44:CA:89:PRO:HD2	44:DA:280:LYS:HE2	1.79	0.63
45:CB:10:GLY:CA	48:CB:501:GDP:O1A	2.46	0.63
45:CD:97:ALA:HB3	45:CD:143:THR:CG2	2.20	0.63
45:CD:325:GLU:HA	45:CD:328:GLU:HG2	1.79	0.63
44:CE:11:GLN:HB2	46:CE:501:GTP:O3A	1.98	0.63
45:CJ:91:VAL:CG1	45:CJ:112:LEU:HD21	2.28	0.63
45:CJ:314:SER:HB2	45:CJ:350:LYS:HB3	1.79	0.63
45:CL:304:ASP:OD1	45:CL:306:ARG:HG2	1.99	0.63
45:CL:375:GLN:HG3	45:CL:379:LYS:NZ	2.13	0.63
44:DA:103:PHE:CE2	44:DA:189:LEU:HB3	2.33	0.63
44:DC:89:PRO:HG3	44:EC:280:LYS:HB2	1.80	0.63
45:DD:8:GLN:NE2	45:DD:16:ILE:HB	2.12	0.63
45:DF:310:TYR:CE1	45:DF:371:SER:HB2	2.32	0.63
44:DI:188:ILE:HG23	44:DI:425:LEU:CD1	2.28	0.63
45:DJ:299:MET:CE	45:DJ:305:PRO:HG3	2.28	0.63
44:DK:111:GLY:O	44:DK:115:VAL:HG13	1.98	0.63
44:DK:284:GLU:HG3	44:DK:286:LEU:CD2	2.29	0.63
45:DL:256:ASN:HD22	44:DM:181:VAL:HG22	1.63	0.63
45:DN:25:SER:HB3	45:DN:30:ILE:O	1.98	0.63
45:EB:67:ASP:O	45:EB:92:PHE:HA	1.98	0.63
45:ED:322:SER:CB	44:EE:223:THR:HB	2.28	0.63
45:ED:322:SER:HB3	44:EE:223:THR:HB	1.79	0.63
45:EF:25:SER:O	45:EF:30:ILE:HG22	1.97	0.63
45:EF:318:ARG:N	45:EF:364:ALA:O	2.30	0.63
45:EJ:22:GLU:HA	45:EJ:81:PHE:CD2	2.33	0.63
44:EK:141:VAL:CG2	44:EK:187:SER:HA	2.29	0.63
45:EL:130:LEU:HD11	45:EL:133:PHE:HE1	1.63	0.63
44:EM:70:LEU:HD23	44:EM:110:ILE:HD12	1.80	0.63
45:EN:19:LYS:NZ	45:EN:227:HIS:HA	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:239:THR:CB	44:FA:242:LEU:HD12	2.28	0.63
44:FA:270:SER:O	44:FA:302:MET:HB2	1.97	0.63
44:FC:93:ILE:HD13	44:FC:117:LEU:HD23	1.79	0.63
44:FC:398:MET:HE2	45:FD:345:ILE:CD1	2.28	0.63
45:FD:113:ILE:HD11	45:FD:151:LEU:HB2	1.79	0.63
44:FE:216:ASN:ND2	44:FE:275:ILE:O	2.31	0.63
45:FH:203:ASP:OD2	45:FH:302:ALA:N	2.19	0.63
44:FI:210:TYR:CG	45:FJ:324:LYS:HE2	2.34	0.63
44:FK:387:VAL:HA	44:FK:390:ARG:NH1	2.13	0.63
45:FL:3:GLU:CA	45:FL:49:VAL:HG13	2.28	0.63
45:FN:86:ARG:HG3	45:FN:88:ASP:H	1.63	0.63
45:FN:207:LEU:HA	45:FN:210:ILE:CD1	2.27	0.63
45:FN:317:PHE:HE2	45:FN:326:VAL:HG13	1.63	0.63
44:GA:252:ILE:HA	44:GA:255:PHE:CE2	2.33	0.63
44:GC:272:TYR:CD2	44:GC:275:ILE:HD11	2.33	0.63
45:GD:68:LEU:HG	45:GD:96:GLY:H	1.62	0.63
45:GD:193:VAL:HG23	45:GD:264:HIS:CE1	2.34	0.63
44:GG:34:GLY:O	44:GG:60:LYS:HA	1.97	0.63
45:GL:58:ARG:NH1	45:HL:280:GLN:OE1	2.22	0.63
45:GL:374:ILE:HG22	45:GL:377:MET:HE2	1.79	0.63
44:GM:213:CYS:O	44:GM:217:LEU:HB2	1.99	0.63
45:GN:113:ILE:HD13	45:GN:150:LEU:CD2	2.28	0.63
45:GN:386:THR:C	45:GN:388:MET:HB2	2.19	0.63
44:HA:324:VAL:HG21	45:HD:220:PRO:O	1.97	0.63
45:HB:268:ILE:CG2	45:HB:368:VAL:HG22	2.26	0.63
45:HH:324:LYS:O	45:HH:328:GLU:N	2.16	0.63
44:HI:188:ILE:HD11	44:HI:425:LEU:CG	2.28	0.63
45:HL:8:GLN:HE21	45:HL:65:LEU:HG	1.63	0.63
45:HL:309:ARG:NH2	45:HL:310:TYR:HB2	2.14	0.63
45:HN:139:LEU:HA	45:HN:145:SER:CB	2.24	0.63
45:IB:4:ILE:CG2	45:IB:131:GLN:HB3	2.29	0.63
45:ID:5:VAL:HG12	45:ID:133:PHE:CD1	2.34	0.63
45:IF:86:ARG:NE	45:IF:87:PRO:HD2	2.13	0.63
44:IG:189:LEU:HD11	44:IG:418:PHE:CE1	2.34	0.63
45:IJ:24:ILE:HD11	45:IJ:234:SER:HB3	1.81	0.63
44:IK:14:ILE:HG12	44:IK:75:ILE:CD1	2.28	0.63
44:IM:30:ILE:HD11	44:IM:34:GLY:HA2	1.80	0.63
44:IM:54:SER:N	44:IM:62:VAL:O	2.26	0.63
44:IM:232:ALA:O	44:IM:235:ILE:N	2.32	0.63
45:JF:156:ARG:HD3	45:JF:195:ASN:HB3	1.79	0.63
45:JH:139:LEU:CD1	45:JH:168:SER:HB3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JI:21:TRP:CZ2	44:JI:65:ALA:HB2	2.34	0.63
44:JK:54:SER:HB3	44:JK:64:ARG:CZ	2.28	0.63
45:JL:202:ILE:HG23	45:JL:300:MET:CE	2.28	0.63
45:JN:376:GLU:HA	45:JN:379:LYS:CE	2.28	0.63
44:KA:26:LEU:CD1	44:KA:364:PRO:HD3	2.29	0.63
44:KA:88:HIS:HB3	44:KA:91:GLN:CB	2.27	0.63
44:KG:27:GLU:HG3	44:KG:28:HIS:CD2	2.33	0.63
45:KH:73:MET:O	45:KH:76:VAL:HG12	1.97	0.63
44:KI:181:VAL:HG12	45:KJ:256:ASN:HB3	1.80	0.63
45:KJ:253:LEU:HD11	45:KJ:316:LEU:HD11	1.80	0.63
45:KJ:313:ALA:HB1	45:KJ:367:PHE:HE1	1.64	0.63
45:KL:143:THR:HG22	48:KL:501:GDP:O3B	1.99	0.63
44:LA:362:VAL:HB	44:LA:370:LYS:HE3	1.80	0.63
44:LA:363:VAL:HG22	44:LA:364:PRO:HD2	1.79	0.63
45:LB:404:ASP:OD1	45:LB:407:GLU:HG2	1.98	0.63
44:LE:181:VAL:HG22	45:LF:347:ASN:O	1.99	0.63
44:LG:185:TYR:CE1	44:LG:398:MET:HE3	2.34	0.63
45:LL:248:SER:HB2	45:LL:252:LYS:HD2	1.81	0.63
44:LM:275:ILE:HG23	44:LM:275:ILE:O	1.99	0.63
45:LN:207:LEU:HB3	45:LN:225:LEU:HG	1.80	0.63
44:MA:222:PRO:HG2	45:MB:324:LYS:HD3	1.80	0.63
44:MG:185:TYR:CZ	44:MG:398:MET:HE3	2.33	0.63
44:MI:171:ILE:CD1	44:MI:204:LEU:HB3	2.29	0.63
45:NB:186:THR:HG23	45:NB:415:MET:HG3	1.79	0.63
44:NC:332:ILE:HG23	44:NC:351:PHE:CD2	2.33	0.63
44:NE:54:SER:HB3	44:NE:64:ARG:NH1	2.13	0.63
44:NE:311:LYS:HZ1	44:NE:342:GLN:HB3	1.63	0.63
44:NE:320:ARG:CD	44:NE:360:PRO:HG3	2.29	0.63
46:NE:501:GTP:O1G	45:NF:252:LYS:NZ	2.24	0.63
45:NF:7:ILE:CD1	45:NF:64:ILE:HB	2.28	0.63
45:NF:99:ASN:C	45:NF:142:GLY:HA3	2.19	0.63
45:NF:294:PHE:CD1	45:NF:333:VAL:HG21	2.33	0.63
44:NG:222:PRO:HD2	45:NH:324:LYS:HD3	1.79	0.63
44:NI:413:MET:HE1	44:NI:413:MET:HA	1.78	0.63
45:NJ:7:ILE:CD1	45:NJ:64:ILE:HB	2.28	0.63
45:NJ:222:TYR:O	45:NJ:226:ASN:ND2	2.31	0.63
45:NL:15:GLN:HB3	45:NL:226:ASN:ND2	2.12	0.63
44:OA:328:VAL:O	44:OA:332:ILE:HG13	1.97	0.63
44:OC:370:LYS:HD2	44:OC:370:LYS:O	1.99	0.63
45:OD:177:ASP:N	45:OD:181:GLU:OE2	2.30	0.63
45:OF:215:LEU:HB3	45:OF:217:LEU:HD22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:268:MET:CG	44:OG:380:ASN:HB2	2.29	0.63
45:OH:193:VAL:HA	45:OH:264:HIS:NE2	2.12	0.63
44:OI:13:GLY:HA2	44:OI:16:VAL:CG2	2.27	0.63
44:OI:263:PRO:HD3	45:OL:396:HIS:CD2	2.34	0.63
45:OJ:116:VAL:HA	45:OJ:119:VAL:HG22	1.79	0.63
45:OJ:311:LEU:HA	45:OJ:342:VAL:CG1	2.27	0.63
45:OJ:319:GLY:HA2	45:OJ:357:PRO:HD3	1.80	0.63
45:ON:324:LYS:O	45:ON:327:ASP:HB2	1.98	0.63
45:PB:324:LYS:HA	45:PB:327:ASP:OD2	1.98	0.63
44:PC:274:PRO:HD3	44:PC:291:ILE:HG23	1.79	0.63
45:PF:5:VAL:HG22	45:PF:133:PHE:CD1	2.33	0.63
45:PF:379:LYS:O	45:PF:383:GLU:N	2.25	0.63
44:PG:271:SER:OG	44:PG:301:MET:HA	1.98	0.63
45:PH:268:ILE:HG22	45:PH:368:VAL:HG22	1.78	0.63
44:PI:307:PRO:HB3	44:PI:312:TYR:OH	1.98	0.63
44:PK:212:ILE:CD1	44:PK:300:ASN:HA	2.28	0.63
44:PK:325:PRO:CA	44:PK:328:VAL:HG12	2.27	0.63
45:PL:225:LEU:O	45:PL:229:VAL:HG23	1.97	0.63
45:PN:50:TYR:CE2	45:PN:237:THR:HG21	2.34	0.63
44:QA:255:PHE:O	44:QA:259:LEU:HB2	1.97	0.63
44:QA:307:PRO:HB2	44:QA:312:TYR:OH	1.98	0.63
45:QB:42:LEU:HG	45:QB:45:GLU:OE2	1.98	0.63
45:QB:99:ASN:HA	45:QB:142:GLY:H	1.64	0.63
44:QC:19:ALA:HB1	44:QC:229:ARG:HH22	1.63	0.63
45:QD:232:ALA:CB	45:QD:268:ILE:HD12	2.27	0.63
44:QE:231:ILE:HA	44:QE:234:VAL:CG2	2.28	0.63
45:QF:28:HIS:ND1	45:QF:43:GLN:O	2.30	0.63
45:QF:387:ALA:O	45:QF:390:ARG:HG2	1.98	0.63
44:QG:23:LEU:HD21	44:QG:236:SER:HB2	1.79	0.63
44:QG:229:ARG:NH1	44:QG:363:VAL:HG11	2.13	0.63
44:QI:258:ASN:HD21	45:QJ:178:THR:HG23	1.63	0.63
45:QL:268:ILE:HG13	45:QL:300:MET:CE	2.26	0.63
45:QL:299:MET:CG	45:QL:305:PRO:HG2	2.28	0.63
44:RA:26:LEU:HD23	44:RA:363:VAL:HA	1.81	0.63
44:RA:115:VAL:HG21	44:RA:156:ARG:HD2	1.79	0.63
45:RB:120:VAL:O	45:RB:123:GLU:HB2	1.97	0.63
44:RC:71:GLU:OE2	44:RC:73:THR:OG1	2.07	0.63
45:RD:1:MET:HB2	45:RD:2:ARG:HH11	1.63	0.63
45:RD:25:SER:HA	45:RD:51:TYR:OH	1.98	0.63
45:RH:323:THR:O	45:RH:327:ASP:N	2.23	0.63
45:RJ:166:THR:OG1	45:RJ:199:CYS:HA	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:312:THR:HG22	45:RJ:345:ILE:CD1	2.28	0.63
45:RL:397:TRP:O	45:RL:400:GLY:N	2.28	0.63
45:RN:42:LEU:HA	45:RN:45:GLU:HG3	1.79	0.63
45:RN:100:ASN:ND2	45:RN:102:ALA:HB3	2.13	0.63
44:SA:254:GLU:CG	45:SB:98:GLY:HA2	2.26	0.63
45:SB:136:THR:HG22	45:SB:167:PHE:CD2	2.32	0.63
45:SB:178:THR:HG22	45:SB:180:VAL:H	1.62	0.63
44:SC:326:LYS:O	44:SC:330:ALA:N	2.26	0.63
44:SE:141:VAL:HG11	44:SE:172:TYR:HA	1.79	0.63
44:SE:288:VAL:HA	44:SE:291:ILE:CG1	2.27	0.63
45:SF:324:LYS:HE2	44:SG:210:TYR:HB3	1.80	0.63
44:SG:280:LYS:O	44:SG:280:LYS:HG3	1.98	0.63
44:SG:345:ASP:HB2	44:SG:438:GLU:HG3	1.81	0.63
44:SI:276:ILE:HG21	44:SI:281:ALA:HA	1.80	0.63
44:SK:75:ILE:HG21	44:SK:94:SER:HB3	1.79	0.63
44:SK:315:CYS:SG	44:SK:379:SER:HB3	2.38	0.63
44:SM:272:TYR:CD1	44:SM:376:CYS:HB2	2.32	0.63
44:SM:326:LYS:HG2	45:SN:220:PRO:HD2	1.80	0.63
45:TF:77:ARG:HD3	45:TF:90:PHE:CZ	2.33	0.63
45:TF:130:LEU:HB3	45:TF:162:ARG:HD2	1.80	0.63
45:TH:117:LEU:HA	45:TH:120:VAL:CG2	2.27	0.63
45:TH:412:GLU:HA	45:TH:415:MET:CE	2.28	0.63
45:TJ:210:ILE:O	45:TJ:214:THR:OG1	2.10	0.63
45:TL:284:LEU:HB3	45:TL:363:MET:CE	2.28	0.63
45:TL:314:SER:HA	45:TL:350:LYS:HB3	1.81	0.63
44:TM:9:VAL:HG13	44:TM:139:ASN:CB	2.27	0.63
44:UA:34:GLY:HA3	44:UA:60:LYS:CE	2.27	0.63
44:UA:431:ASP:HA	44:UA:434:GLU:HG3	1.80	0.63
45:UB:286:VAL:HG12	45:UB:287:PRO:HD3	1.79	0.63
45:UB:287:PRO:HG3	45:UB:329:GLN:HE22	1.64	0.63
44:UC:293:ASN:OD1	44:UC:335:ILE:HD11	1.98	0.63
44:UC:356:ASN:OD1	44:UC:357:TYR:N	2.31	0.63
45:UD:199:CYS:O	45:UD:266:PHE:N	2.29	0.63
45:UD:325:GLU:HB3	44:UE:221:ARG:NH1	2.13	0.63
44:UI:14:ILE:CD1	44:UI:69:ASP:HB2	2.28	0.63
44:UK:326:LYS:HD3	45:UL:212:PHE:HZ	1.61	0.63
45:UL:135:ILE:HG13	45:UL:152:ILE:CD1	2.27	0.63
45:UL:236:VAL:HG12	45:UL:250:LEU:HD23	1.79	0.63
44:UM:268:MET:HG3	44:UM:380:ASN:HB2	1.80	0.63
45:VB:87:PRO:HA	45:VB:90:PHE:CD2	2.33	0.63
44:VC:49:PHE:O	44:VC:53:PHE:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:349:THR:HG23	45:VF:384:GLN:OE1	1.98	0.63
45:VD:174:LYS:HD2	45:VD:175:VAL:HG13	1.81	0.63
45:VD:315:ALA:N	45:VD:350:LYS:O	2.28	0.63
45:VF:183:TYR:O	45:VF:187:LEU:N	2.21	0.63
45:VF:208:TYR:CE1	45:VF:225:LEU:HD11	2.34	0.63
44:VK:23:LEU:CD2	44:VK:233:GLN:HA	2.27	0.63
44:VK:315:CYS:HB2	44:VK:377:MET:CE	2.27	0.63
45:VN:49:VAL:HG12	45:VN:50:TYR:CD1	2.33	0.63
45:VN:81:PHE:HA	45:VN:84:LEU:HD13	1.80	0.63
44:WA:254:GLU:CG	45:WD:98:GLY:HA2	2.26	0.63
45:WB:316:LEU:O	45:WB:365:VAL:HA	1.98	0.63
44:WE:348:PRO:HG2	45:WH:384:GLN:NE2	2.13	0.63
44:WG:295:ALA:HB1	44:WG:377:MET:CE	2.28	0.63
45:WJ:67:ASP:HB3	45:WJ:73:MET:SD	2.38	0.63
44:WK:7:ILE:HB	44:WK:137:VAL:HG23	1.80	0.63
44:WK:272:TYR:HD2	44:WK:275:ILE:HD11	1.62	0.63
45:WL:205:GLU:N	45:WL:205:GLU:OE1	2.31	0.63
11:OQ:115:LYS:HG2	44:AA:264:ARG:HD3	1.80	0.63
4:1C:75:LEU:CG	45:EL:362:LYS:HG2	2.28	0.63
25:1P:189:HIS:CD2	45:TH:362:LYS:HB2	2.34	0.63
25:1P:277:LYS:HG3	44:TE:282:TYR:HD2	1.62	0.63
2:2A:36:ARG:HH12	45:MJ:356:ILE:CD1	2.10	0.63
37:5D:113:VAL:CG2	44:NM:286:LEU:HD12	2.28	0.63
35:5R:81:ILE:HB	44:MI:35:GLN:OE1	1.96	0.63
35:5R:88:TYR:HB3	35:5R:122:LEU:HD23	1.80	0.63
41:6G:245:SER:OG	41:6G:248:LYS:HD3	1.98	0.63
35:7R:478:ASN:HB2	35:7R:485:TYR:CZ	2.34	0.63
42:8N:265:UNK:O	42:8N:269:UNK:N	2.31	0.63
44:AA:174:SER:CB	44:AA:177:VAL:HB	2.28	0.63
45:AB:68:LEU:HD23	45:AB:97:ALA:HB2	1.80	0.63
44:AG:108:TYR:O	44:AG:112:LYS:HE2	1.98	0.63
45:AJ:370:ASN:OD1	45:AJ:422:TYR:OH	2.15	0.63
44:AK:259:LEU:HD21	44:AK:268:MET:HE3	1.80	0.63
45:AL:67:ASP:CB	45:AL:72:THR:HG21	2.29	0.63
44:AM:1:MET:O	44:AM:131:GLY:HA3	1.98	0.63
44:AM:425:LEU:HB2	44:AM:426:ALA:CA	2.29	0.63
44:BA:9:VAL:HA	44:BA:68:LEU:O	1.99	0.63
44:BA:150:GLY:O	44:BA:154:LEU:HG	1.98	0.63
44:BA:288:VAL:HG21	44:BA:327:ASP:HB2	1.80	0.63
44:BA:332:ILE:HG23	44:BA:351:PHE:CE2	2.33	0.63
44:BE:54:SER:HB3	44:BE:64:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:276:ILE:CD1	44:BE:281:ALA:HA	2.29	0.63
45:BH:3:GLU:OE2	45:BH:127:CYS:HB2	1.98	0.63
45:BH:156:ARG:HD3	45:BH:164:MET:HG3	1.80	0.63
45:BJ:213:ARG:HH21	45:BJ:297:LYS:HE3	1.63	0.63
45:BL:130:LEU:CG	45:BL:162:ARG:HD2	2.28	0.63
45:BL:310:TYR:CE1	45:BL:371:SER:HB2	2.33	0.63
44:CA:434:GLU:O	44:CA:437:ILE:HG12	1.98	0.63
45:CB:324:LYS:O	45:CB:328:GLU:HG2	1.99	0.63
44:CC:209:ILE:O	44:CC:212:ILE:N	2.31	0.63
44:CE:274:PRO:HG3	44:CE:286:LEU:HD12	1.80	0.63
44:CE:427:ALA:O	44:CE:430:LYS:HG3	1.98	0.63
45:CF:324:LYS:HD2	44:CG:210:TYR:HB3	1.80	0.63
44:CI:11:GLN:O	44:CI:14:ILE:HG22	1.99	0.63
45:CJ:268:ILE:HG13	45:CJ:300:MET:CE	2.29	0.63
44:CK:254:GLU:HA	44:CK:257:THR:HG22	1.81	0.63
44:CM:231:ILE:O	44:CM:235:ILE:HG12	1.98	0.63
44:DA:8:HIS:HE1	44:DA:65:ALA:HB1	1.62	0.63
44:DA:183:GLU:HG2	44:DA:184:PRO:HD3	1.80	0.63
44:DC:72:PRO:HG3	44:DC:95:GLY:O	1.97	0.63
45:DD:265:PHE:CE2	45:DD:418:LEU:HD21	2.34	0.63
44:DK:208:ALA:N	44:DK:304:LYS:HE2	2.14	0.63
44:DK:289:ALA:O	44:DK:292:THR:HG22	1.97	0.63
45:DL:164:MET:H	45:DL:197:ASP:HB2	1.62	0.63
44:EA:5:ILE:HG12	44:EA:64:ARG:NH2	2.13	0.63
44:EA:88:HIS:HB3	44:EA:91:GLN:HB2	1.80	0.63
44:EC:171:ILE:CG2	46:EC:501:GTP:HN22	2.11	0.63
44:EC:219:ILE:HG22	44:EC:222:PRO:HD3	1.78	0.63
44:EC:262:TYR:HB3	44:EC:263:PRO:HD2	1.80	0.63
45:ED:310:TYR:O	45:ED:342:VAL:HG12	1.99	0.63
44:EE:105:ARG:HA	44:EE:109:THR:HB	1.80	0.63
44:EE:115:VAL:HG23	44:EE:153:LEU:CD2	2.27	0.63
44:EE:201:ALA:HB3	44:EE:267:PHE:HD1	1.63	0.63
45:EF:58:ARG:HD3	45:FF:281:TYR:CE1	2.33	0.63
45:EF:104:GLY:C	45:EF:109:GLY:HA3	2.18	0.63
45:EH:67:ASP:OD2	45:EH:72:THR:OG1	2.16	0.63
45:EH:293:MET:HG2	45:EH:367:PHE:HD1	1.63	0.63
44:EI:288:VAL:HG11	44:EI:327:ASP:CB	2.28	0.63
45:EJ:186:THR:HG23	45:EJ:415:MET:SD	2.38	0.63
44:EK:280:LYS:HE3	44:EK:283:HIS:HD1	1.62	0.63
45:EL:225:LEU:O	45:EL:229:VAL:HG23	1.99	0.63
44:EM:54:SER:HB3	44:EM:64:ARG:CZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:319:TYR:HD2	44:EM:328:VAL:HG22	1.64	0.63
45:EN:163:ILE:HG23	45:EN:251:ARG:CZ	2.29	0.63
44:FA:260:VAL:HG13	44:FA:265:ILE:O	1.98	0.63
44:FA:288:VAL:CA	44:FA:291:ILE:HG12	2.28	0.63
45:FB:245:GLN:HG2	45:FB:355:ASP:OD1	1.99	0.63
44:FC:179:THR:HG23	45:FD:351:SER:OG	1.98	0.63
45:FD:135:ILE:O	45:FD:166:THR:HA	1.98	0.63
44:FE:311:LYS:CD	44:FE:342:GLN:HG3	2.28	0.63
45:FF:138:SER:HA	45:FF:169:VAL:CG2	2.27	0.63
45:FL:86:ARG:HE	45:FL:87:PRO:CD	2.09	0.63
45:FL:97:ALA:HB2	45:FL:143:THR:CG2	2.27	0.63
44:FM:242:LEU:HD11	44:FM:252:ILE:HG13	1.80	0.63
45:GB:101:TRP:HD1	45:GB:184:ASN:HB2	1.62	0.63
45:GB:152:ILE:HD12	45:GB:164:MET:CE	2.28	0.63
45:GB:317:PHE:HA	45:GB:365:VAL:CG2	2.22	0.63
44:GC:203:MET:CG	44:GC:384:ILE:HD11	2.23	0.63
45:GD:377:MET:O	45:GD:380:ARG:HG2	1.98	0.63
45:GF:376:GLU:CG	45:GF:380:ARG:HH21	2.10	0.63
44:GG:328:VAL:HG11	44:GG:353:VAL:HG21	1.81	0.63
45:GJ:10:GLY:O	45:GJ:14:ASN:N	2.26	0.63
44:GK:31:GLN:OE1	44:GK:37:PRO:HD3	1.98	0.63
44:GM:292:THR:HG22	44:GM:375:VAL:CG1	2.28	0.63
44:HA:155:GLU:HG2	44:HA:197:HIS:NE2	2.13	0.63
44:HC:70:LEU:HB3	44:HC:97:GLU:O	1.98	0.63
44:HC:250:VAL:CG1	44:HC:254:GLU:HB2	2.27	0.63
44:HG:14:ILE:HD11	44:HG:69:ASP:HB2	1.79	0.63
44:HG:372:MET:C	44:HG:373:ARG:HD3	2.19	0.63
44:HK:203:MET:HB2	44:HK:303:ALA:HB2	1.80	0.63
44:HK:229:ARG:HB2	44:HK:229:ARG:HH11	1.63	0.63
44:IA:352:LYS:HD3	45:ID:178:THR:HA	1.79	0.63
44:IC:394:LYS:NZ	45:ID:347:ASN:OD1	2.31	0.63
44:IE:84:ARG:HG3	44:IE:85:GLN:HE21	1.63	0.63
45:IF:189:VAL:CG1	45:IF:415:MET:HE1	2.28	0.63
45:IF:266:PHE:CE1	45:IF:370:ASN:HB2	2.34	0.63
44:IG:99:ALA:HB3	44:IG:145:THR:HB	1.80	0.63
44:IG:237:SER:HA	44:IG:320:ARG:CZ	2.28	0.63
45:IH:310:TYR:CD1	45:IH:371:SER:HB2	2.34	0.63
45:IJ:164:MET:SD	45:IJ:196:ALA:HA	2.38	0.63
44:IM:174:SER:CB	44:IM:177:VAL:HB	2.28	0.63
44:JA:358:GLN:OE1	44:JA:359:PRO:HD2	1.99	0.63
45:JB:267:MET:HG2	45:JB:374:ILE:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:65:LEU:HB2	45:JF:90:PHE:CZ	2.33	0.63
44:JG:434:GLU:O	44:JG:437:ILE:HG22	1.98	0.63
45:JH:41:ASP:OD1	45:JH:42:LEU:N	2.32	0.63
44:JI:326:LYS:HE3	45:JL:220:PRO:CB	2.25	0.63
45:JN:253:LEU:HD23	45:JN:257:LEU:HD11	1.80	0.63
45:JN:278:SER:HB2	45:JN:282:ARG:NE	2.14	0.63
45:KD:119:VAL:O	45:KD:122:LYS:HG2	1.97	0.63
44:KE:98:ASP:OD1	44:KE:99:ALA:N	2.32	0.63
44:KG:261:PRO:HG2	44:KG:313:MET:SD	2.38	0.63
45:KH:350:LYS:NZ	45:KH:352:SER:HB3	2.14	0.63
44:KI:205:ASP:OD2	44:KI:304:LYS:N	2.25	0.63
45:KJ:20:PHE:CE2	45:KJ:233:MET:HE3	2.33	0.63
44:KK:224:TYR:HD1	45:KL:323:THR:HG21	1.61	0.63
44:KK:308:ARG:HB3	44:NK:282:TYR:CD1	2.33	0.63
44:KM:333:ALA:HA	44:KM:336:LYS:HZ3	1.63	0.63
45:KN:313:ALA:O	45:KN:349:ILE:HA	1.98	0.63
45:LB:318:ARG:HB3	45:LB:358:PRO:HD3	1.81	0.63
44:LC:311:LYS:HE2	44:LC:342:GLN:NE2	2.12	0.63
45:LD:12:CYS:HB2	48:LD:501:GDP:C8	2.34	0.63
45:LD:166:THR:HG21	45:LD:192:LEU:HD11	1.81	0.63
44:LE:17:GLY:HA2	44:LE:20:CYS:SG	2.38	0.63
45:LF:101:TRP:CZ3	45:LF:187:LEU:HD22	2.33	0.63
45:LF:178:THR:CG2	45:LF:180:VAL:HG12	2.29	0.63
45:LH:217:LEU:O	45:LH:217:LEU:HD12	1.99	0.63
44:LI:426:ALA:HA	44:LI:429:GLU:OE2	1.98	0.63
45:LJ:251:ARG:O	45:LJ:255:VAL:HG23	1.98	0.63
44:LK:351:PHE:HB2	45:LN:176:SER:OG	1.98	0.63
45:LL:238:CYS:HB2	45:LL:318:ARG:NH1	2.14	0.63
44:MA:21:TRP:CH2	44:MA:63:PRO:HB3	2.34	0.63
44:MC:88:HIS:CE1	44:MC:90:GLU:HG2	2.34	0.63
44:ME:156:ARG:HG2	44:ME:156:ARG:HH11	1.63	0.63
45:MF:7:ILE:HB	45:MF:135:ILE:CD1	2.28	0.63
44:MG:315:CYS:O	44:MG:351:PHE:HA	1.98	0.63
45:MH:256:ASN:C	45:MH:257:LEU:HD12	2.18	0.63
45:ML:24:ILE:HD11	45:ML:234:SER:CB	2.29	0.63
45:ML:65:LEU:HD22	45:ML:90:PHE:CE1	2.33	0.63
44:MM:64:ARG:HD3	44:MM:129:CYS:SG	2.39	0.63
44:MM:287:SER:HA	44:MM:373:ARG:HH22	1.64	0.63
45:NB:212:PHE:O	45:NB:216:LYS:HA	1.98	0.63
45:ND:294:PHE:CE2	45:ND:333:VAL:HG11	2.34	0.63
44:NE:70:LEU:HD12	44:NE:145:THR:OG1	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:259:LEU:HD13	44:NE:268:MET:CE	2.28	0.63
44:NG:222:PRO:HG2	45:NH:324:LYS:HD3	1.80	0.63
45:NH:7:ILE:HB	45:NH:135:ILE:CD1	2.28	0.63
45:NH:55:THR:HG23	45:OH:283:ALA:HA	1.79	0.63
45:NL:11:GLN:CA	45:NL:14:ASN:HB2	2.23	0.63
44:NM:177:VAL:HG12	45:NN:331:LEU:HB2	1.79	0.63
44:NM:287:SER:OG	44:NM:290:GLU:OE1	2.12	0.63
45:NN:289:LEU:HD11	45:NN:363:MET:CG	2.27	0.63
44:OA:62:VAL:HG12	44:OA:63:PRO:CA	2.27	0.63
44:OA:101:ASN:HA	44:OA:144:GLY:N	2.14	0.63
45:OB:310:TYR:N	45:OB:340:TYR:O	2.29	0.63
45:OD:105:HIS:NE2	45:OD:150:LEU:HD13	2.13	0.63
44:OE:28:HIS:NE2	44:OE:243:ARG:HD2	2.13	0.63
44:OG:407:TRP:CZ3	45:OH:255:VAL:HG22	2.32	0.63
45:OH:6:HIS:HB3	45:OH:63:ALA:HB2	1.81	0.63
45:OH:138:SER:H	45:OH:144:GLY:HA3	1.64	0.63
44:OI:67:PHE:O	44:OI:68:LEU:HD23	1.98	0.63
45:OJ:211:CYS:HA	45:OJ:215:LEU:HD12	1.81	0.63
45:OL:2:ARG:NH1	45:OL:240:LEU:HG	2.14	0.63
45:ON:289:LEU:HD11	45:ON:363:MET:CB	2.23	0.63
44:PA:268:MET:HB2	44:PA:379:SER:C	2.18	0.63
44:PA:277:SER:C	44:PA:369:ALA:HB2	2.18	0.63
45:PF:87:PRO:HA	45:PF:90:PHE:HB2	1.79	0.63
45:PF:163:ILE:HD11	45:PF:250:LEU:HB2	1.81	0.63
44:PK:325:PRO:O	44:PK:328:VAL:HG12	1.98	0.63
44:PM:23:LEU:HD21	44:PM:233:GLN:HA	1.81	0.63
45:PN:193:VAL:HG21	45:PN:418:LEU:CD2	2.27	0.63
45:PN:248:SER:HA	45:PN:252:LYS:HE3	1.79	0.63
44:QA:9:VAL:HG23	44:QA:68:LEU:CB	2.28	0.63
45:QD:273:LEU:H	45:QD:292:GLN:HE22	1.47	0.63
44:QE:305:CYS:SG	44:QE:384:ILE:HD13	2.39	0.63
45:QF:3:GLU:O	45:QF:131:GLN:HB3	1.99	0.63
45:QF:255:VAL:HG21	44:QG:100:ALA:O	1.99	0.63
44:QG:133:GLN:HB3	44:QG:252:ILE:HG21	1.80	0.63
44:QI:172:TYR:HB3	44:QI:173:PRO:HD2	1.80	0.63
44:QK:87:PHE:HB3	44:QK:92:LEU:HD11	1.79	0.63
45:QL:74:ASP:O	45:QL:77:ARG:HG2	1.99	0.63
45:QN:224:ASP:O	45:QN:228:LEU:HG	1.98	0.63
45:QN:233:MET:HE3	45:QN:233:MET:CA	2.20	0.63
44:RA:183:GLU:N	44:RA:184:PRO:HD2	2.13	0.63
44:RA:248:LEU:HD11	44:RA:353:VAL:HG13	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:294:SER:HA	44:RA:297:GLU:CG	2.26	0.63
45:RB:24:ILE:HG23	45:RB:27:GLU:OE2	1.97	0.63
45:RB:77:ARG:O	45:RB:82:GLY:HA3	1.98	0.63
45:RB:193:VAL:HA	45:RB:264:HIS:CE1	2.33	0.63
45:RD:173:PRO:CD	45:RD:380:ARG:HH11	2.11	0.63
45:RD:289:LEU:HD22	45:RD:364:ALA:HA	1.79	0.63
45:RD:387:ALA:HA	45:RD:390:ARG:HE	1.62	0.63
44:RK:2:ARG:HD3	44:RK:242:LEU:CD2	2.28	0.63
44:RK:195:LEU:HG	44:RK:196:GLU:HG2	1.79	0.63
44:RK:260:VAL:HG13	44:RK:265:ILE:O	1.99	0.63
45:RL:58:ARG:CD	45:RL:59:TYR:H	2.10	0.63
45:RL:303:ALA:HB1	45:RL:373:ALA:CB	2.29	0.63
45:RL:326:VAL:HG12	45:RL:330:MET:HE3	1.81	0.63
44:RM:132:LEU:HD22	44:RM:164:LYS:HE2	1.80	0.63
45:RN:287:PRO:O	45:RN:290:THR:HG22	1.99	0.63
45:SB:161:ASP:OD1	45:SB:162:ARG:HG2	1.98	0.63
45:SB:305:PRO:HA	45:SB:377:MET:CE	2.29	0.63
44:SC:1:MET:HE1	45:SD:94:GLN:HG2	1.80	0.63
44:SC:67:PHE:C	44:SC:68:LEU:HD12	2.19	0.63
45:SD:21:TRP:CZ3	45:SD:61:PRO:HB2	2.34	0.63
44:SE:217:LEU:HD11	44:SE:230:LEU:HD21	1.81	0.63
45:SJ:252:LYS:CA	44:SK:100:ALA:HB1	2.22	0.63
45:SJ:283:ALA:O	45:SJ:288:GLU:HG3	1.98	0.63
44:SM:155:GLU:HG2	44:SM:197:HIS:NE2	2.14	0.63
45:SN:139:LEU:HA	45:SN:145:SER:CB	2.27	0.63
44:TC:408:TYR:HB3	44:TC:413:MET:HG2	1.79	0.63
44:TE:184:PRO:HG2	44:TE:398:MET:HE1	1.80	0.63
44:TG:265:ILE:HG22	44:TG:380:ASN:HD21	1.64	0.63
45:TN:42:LEU:HB3	45:TN:242:PHE:CD1	2.33	0.63
45:TN:72:THR:O	45:TN:75:SER:OG	2.12	0.63
45:TN:121:ARG:NH2	45:TN:158:GLU:OE2	2.31	0.63
45:TN:317:PHE:CB	45:TN:353:ILE:HG13	2.28	0.63
44:UA:259:LEU:HD21	44:UA:316:SER:HB2	1.79	0.63
45:UD:67:ASP:OD1	45:UD:68:LEU:N	2.32	0.63
45:UD:165:GLU:OE2	45:UD:250:LEU:HD13	1.99	0.63
45:UF:20:PHE:CE2	45:UF:24:ILE:HG13	2.34	0.63
44:UG:5:ILE:HB	44:UG:135:PHE:CD1	2.34	0.63
46:UG:501:GTP:N3	46:UG:501:GTP:H2'	2.13	0.63
45:UH:398:TYR:O	45:UH:403:MET:HB2	1.98	0.63
45:UJ:5:VAL:HG12	45:UJ:62:ARG:CD	2.26	0.63
45:UJ:164:MET:CE	45:UJ:164:MET:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:215:LEU:O	45:UJ:275:SER:OG	2.16	0.63
45:UJ:341:PHE:CE1	45:UJ:349:ILE:HD11	2.33	0.63
44:UK:106:GLY:O	44:UK:149:LEU:HD22	1.97	0.63
44:UK:402:ARG:HB3	44:UK:405:VAL:HG21	1.80	0.63
45:UN:69:GLU:N	45:UN:73:MET:HE1	2.13	0.63
44:VA:188:ILE:HG22	44:VA:421:ALA:HB1	1.79	0.63
45:VB:193:VAL:HA	45:VB:264:HIS:CE1	2.33	0.63
44:VC:275:ILE:CD1	44:VC:368:LEU:HD13	2.29	0.63
45:VD:280:GLN:HG3	45:VD:281:TYR:CE1	2.34	0.63
45:VD:406:MET:O	45:VD:410:GLU:HG3	1.99	0.63
45:VF:334:GLN:HG3	45:VF:341:PHE:HE2	1.63	0.63
44:VG:136:LEU:CD2	44:VG:167:LEU:HD22	2.27	0.63
44:VK:69:ASP:OD1	44:VK:71:GLU:N	2.27	0.63
45:VL:305:PRO:HB2	45:VL:310:TYR:OH	1.99	0.63
44:VM:173:PRO:HG2	44:VM:391:LEU:HD11	1.80	0.63
44:WA:345:ASP:HB3	45:WD:391:ARG:NH1	2.13	0.63
45:WF:4:ILE:HD13	45:WF:250:LEU:HD11	1.81	0.63
44:WG:20:CYS:HA	44:WG:232:ALA:HB1	1.79	0.63
44:WG:174:SER:OG	44:WG:205:ASP:OD1	2.10	0.63
45:WH:69:GLU:OE1	45:WH:71:GLY:N	2.29	0.63
44:WI:51:THR:HG22	44:WI:52:PHE:CD1	2.33	0.63
44:WI:71:GLU:OE2	44:WI:73:THR:OG1	2.16	0.63
45:WJ:247:ASN:O	45:WJ:252:LYS:NZ	2.19	0.63
44:WM:14:ILE:HD11	44:WM:68:LEU:O	1.98	0.63
7:0F:141:ILE:HD11	44:GC:279:GLU:CB	2.27	0.63
5:1D:81:ARG:NE	45:EF:357:PRO:HG2	2.12	0.63
22:1L:870:ARG:HG3	45:CB:357:PRO:HG2	1.81	0.63
10:1N:23:TRP:HZ3	44:II:84:ARG:HE	1.45	0.63
29:2F:36:THR:HG23	45:GD:243:PRO:HB2	1.80	0.63
22:2L:526:ARG:NH1	45:BN:362:LYS:HE2	2.14	0.63
22:2L:555:LYS:NZ	45:BN:355:ASP:HB3	2.13	0.63
26:2R:99:VAL:HG21	44:AG:41:THR:O	1.97	0.63
28:3C:222:ILE:HG22	44:KA:221:ARG:HG2	1.77	0.63
32:3I:224:PRO:HG3	45:GL:295:ASP:OD1	1.97	0.63
39:5J:19:MET:HA	39:5J:22:TRP:CE3	2.33	0.63
11:5Q:102:ARG:HH22	44:AK:430:LYS:HD3	1.63	0.63
40:6F:19:SER:O	40:6F:20:THR:HB	1.98	0.63
41:6G:86:LYS:HZ1	44:VI:280:LYS:HE2	1.63	0.63
41:6G:136:PRO:CB	44:VG:340:THR:HB	2.28	0.63
41:6G:272:LYS:HE2	44:UC:119:LEU:HB3	1.79	0.63
35:7R:152:LYS:HG2	35:7R:160:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:283:HIS:ND1	44:ME:89:PRO:HD3	2.13	0.63
45:AF:116:VAL:O	45:AF:119:VAL:HG12	1.99	0.63
44:AG:283:HIS:CD2	44:MG:60:LYS:HD3	2.32	0.63
44:AK:15:GLN:HG3	44:AK:228:ASN:ND2	2.12	0.63
44:AM:37:PRO:HB2	44:AM:39:ASP:O	1.98	0.63
44:AM:142:GLY:O	46:AM:501:GTP:H5'	1.99	0.63
44:AM:283:HIS:CD2	44:MM:60:LYS:HD2	2.33	0.63
44:AM:401:LYS:HB2	45:AN:344:TRP:CZ3	2.33	0.63
44:BA:314:ALA:N	44:BA:380:ASN:O	2.30	0.63
45:BD:3:GLU:HG3	45:BD:62:ARG:HH12	1.63	0.63
44:BI:332:ILE:O	44:BI:336:LYS:HG2	1.97	0.63
44:BK:3:GLU:OE2	44:BK:131:GLY:N	2.31	0.63
44:CA:230:LEU:O	44:CA:234:VAL:HG13	1.98	0.63
44:CC:156:ARG:HA	44:CC:159:VAL:HG12	1.81	0.63
45:CF:18:ALA:HB2	45:CF:76:VAL:HG23	1.81	0.63
44:CG:89:PRO:HG3	44:DG:280:LYS:HG2	1.79	0.63
44:CG:313:MET:HB3	44:CG:380:ASN:O	1.99	0.63
44:CK:262:TYR:HB3	44:CK:263:PRO:HD2	1.81	0.63
45:CL:110:ALA:HA	45:CL:113:ILE:HG22	1.80	0.63
44:DA:254:GLU:HG2	45:DB:98:GLY:CA	2.24	0.63
44:DC:175:PRO:HB2	44:DC:176:GLN:OE1	1.98	0.63
45:DD:293:MET:HE2	45:DD:367:PHE:HD1	1.61	0.63
44:DE:66:VAL:CG2	44:DE:121:ARG:HG2	2.27	0.63
45:DF:2:ARG:HH22	44:DG:72:PRO:HD2	1.63	0.63
45:DF:97:ALA:HB2	45:DF:143:THR:HB	1.79	0.63
45:DH:342:VAL:HG13	45:DH:345:ILE:HG22	1.79	0.63
44:DI:208:ALA:O	44:DI:212:ILE:HG12	1.98	0.63
44:DI:311:LYS:O	44:DI:381:SER:HB2	1.98	0.63
45:DJ:61:PRO:HD2	45:DJ:84:LEU:O	1.98	0.63
44:DK:184:PRO:O	44:DK:187:SER:N	2.31	0.63
44:DK:200:VAL:HA	44:DK:268:MET:CE	2.28	0.63
45:DL:114:ASP:OD1	45:DL:115:SER:N	2.32	0.63
45:DL:185:ALA:O	45:DL:189:VAL:HG23	1.98	0.63
45:DN:139:LEU:CD1	45:DN:168:SER:HB3	2.29	0.63
44:EA:6:SER:O	44:EA:66:VAL:HG12	1.99	0.63
44:EA:68:LEU:CD2	44:EA:153:LEU:HD11	2.28	0.63
44:EA:319:TYR:CD2	44:EA:323:VAL:HG11	2.34	0.63
45:EB:73:MET:O	45:EB:76:VAL:HG12	1.98	0.63
44:EC:154:LEU:HB3	44:EC:197:HIS:HB3	1.80	0.63
44:EE:11:GLN:HB2	46:EE:501:GTP:O1B	1.98	0.63
44:EE:145:THR:HG22	46:EE:501:GTP:O3B	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:105:HIS:CD2	45:EF:150:LEU:HB2	2.33	0.63
45:EF:119:VAL:HG13	45:EF:122:LYS:HE3	1.79	0.63
44:EG:103:PHE:HB2	44:EG:186:ASN:CB	2.28	0.63
44:EG:416:GLY:O	44:EG:420:GLU:HG2	1.98	0.63
45:EJ:26:ASP:O	45:EJ:29:GLY:N	2.32	0.63
45:EJ:42:LEU:HA	45:EJ:45:GLU:CG	2.18	0.63
45:EJ:189:VAL:HG11	45:EJ:378:PHE:CE2	2.33	0.63
45:EJ:413:SER:O	45:EJ:417:ASP:N	2.30	0.63
45:EJ:416:ASN:O	45:EJ:419:VAL:HB	1.99	0.63
44:EK:316:SER:CA	44:EK:352:LYS:HB3	2.28	0.63
44:EM:270:SER:O	44:EM:271:SER:OG	2.12	0.63
45:EN:28:HIS:ND1	45:EN:30:ILE:HD11	2.14	0.63
45:EN:314:SER:CB	45:EN:350:LYS:HB3	2.28	0.63
44:FA:101:ASN:HA	44:FA:144:GLY:CA	2.29	0.63
45:FD:200:MET:HE1	45:FD:266:PHE:HB2	1.81	0.63
44:FG:276:ILE:CG2	44:FG:281:ALA:HA	2.28	0.63
45:FH:184:ASN:OD1	45:FH:185:ALA:N	2.31	0.63
45:FL:293:MET:SD	45:FL:367:PHE:HB2	2.39	0.63
44:GA:167:LEU:HD21	44:GA:255:PHE:HD2	1.63	0.63
44:GA:318:MET:C	44:GA:375:VAL:HG23	2.18	0.63
45:GB:8:GLN:HE21	45:GB:14:ASN:HA	1.62	0.63
45:GB:274:THR:HB	45:GB:282:ARG:NH1	2.13	0.63
44:GC:2:ARG:HD2	44:GC:242:LEU:O	1.99	0.63
44:GC:411:GLU:HB2	44:GC:413:MET:CE	2.29	0.63
45:GD:257:LEU:HA	45:GD:312:THR:CG2	2.29	0.63
45:GF:2:ARG:HB2	45:GF:131:GLN:CG	2.29	0.63
45:GF:117:LEU:HA	45:GF:120:VAL:HG12	1.81	0.63
45:GF:285:THR:CB	45:GF:287:PRO:HD2	2.27	0.63
45:GH:330:MET:CE	45:GH:330:MET:HA	2.29	0.63
45:GJ:12:CYS:HB2	48:GJ:502:GDP:C8	2.33	0.63
44:GK:221:ARG:CD	45:GL:322:SER:HB3	2.24	0.63
44:GM:21:TRP:HA	44:GM:24:PHE:HB2	1.81	0.63
45:GN:405:GLU:OE1	45:GN:405:GLU:N	2.26	0.63
44:HC:181:VAL:CG2	45:HD:345:ILE:HD11	2.28	0.63
44:HE:93:ILE:HG12	44:HE:117:LEU:HD21	1.79	0.63
44:HE:135:PHE:HB2	44:HE:166:LYS:HG2	1.81	0.63
45:HF:228:LEU:HD22	45:HF:273:LEU:HD13	1.81	0.63
45:HH:271:ALA:HB1	45:HH:272:PRO:HA	1.80	0.63
44:HI:34:GLY:O	44:HI:60:LYS:HA	1.99	0.63
45:HJ:258:ILE:HG13	45:HJ:266:PHE:HZ	1.63	0.63
44:HK:346:TRP:CZ3	44:HK:347:CYS:HB2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HL:20:PHE:O	45:HL:24:ILE:HG12	1.97	0.63
44:IA:103:PHE:CD2	44:IA:189:LEU:HD13	2.33	0.63
44:IA:188:ILE:HD12	44:IA:425:LEU:CD1	2.29	0.63
44:IC:169:PHE:CE2	44:IC:235:ILE:HD12	2.33	0.63
44:IC:252:ILE:HA	44:IC:255:PHE:HD2	1.63	0.63
44:IE:87:PHE:HB3	44:IE:91:GLN:HE21	1.63	0.63
44:IE:107:HIS:CD2	44:IE:152:LEU:HB2	2.33	0.63
44:IE:276:ILE:CD1	44:IE:281:ALA:HA	2.29	0.63
44:IG:401:LYS:O	44:IG:402:ARG:HG2	1.99	0.63
44:II:141:VAL:HG23	44:II:190:SER:HB3	1.79	0.63
45:IJ:10:GLY:O	45:IJ:14:ASN:ND2	2.31	0.63
44:IK:311:LYS:HB2	44:IK:344:VAL:HG22	1.80	0.63
44:IK:384:ILE:HG13	44:IK:388:PHE:CE2	2.34	0.63
45:IL:152:ILE:HD13	45:IL:164:MET:CE	2.28	0.63
45:IN:16:ILE:HG13	45:IN:226:ASN:OD1	1.98	0.63
45:IN:248:SER:HA	45:IN:252:LYS:HD2	1.79	0.63
44:JC:222:PRO:HD2	45:JD:324:LYS:HD2	1.79	0.63
45:JD:238:CYS:HB2	45:JD:318:ARG:NE	2.13	0.63
44:JG:73:THR:HG21	45:JH:247:ASN:ND2	2.13	0.63
45:JH:158:GLU:HG3	45:JH:159:TYR:CD1	2.33	0.63
45:JH:289:LEU:HD22	45:JH:363:MET:CE	2.29	0.63
45:JJ:290:THR:O	45:JJ:293:MET:HG2	1.99	0.63
45:JL:318:ARG:HG2	45:JL:318:ARG:HH11	1.63	0.63
44:KA:1:MET:CE	44:KA:131:GLY:HA3	2.29	0.63
45:KB:318:ARG:HA	45:KB:354:CYS:HB3	1.80	0.63
44:KG:325:PRO:HG2	45:KJ:222:TYR:CD2	2.33	0.63
44:KG:372:MET:C	44:KG:373:ARG:HD2	2.18	0.63
45:KJ:341:PHE:HB3	45:KJ:348:ASN:HD21	1.64	0.63
44:KM:271:SER:O	44:KM:377:MET:N	2.29	0.63
44:KM:308:ARG:HD2	44:NM:282:TYR:OH	1.99	0.63
44:KM:346:TRP:O	44:KM:348:PRO:HD3	1.99	0.63
45:KN:36:TYR:CE2	45:KN:44:LEU:HD13	2.34	0.63
45:KN:105:HIS:NE2	45:KN:150:LEU:HD13	2.12	0.63
45:KN:139:LEU:CD1	45:KN:168:SER:HB3	2.29	0.63
44:LA:202:VAL:HG11	44:LA:270:SER:HB3	1.81	0.63
45:LD:49:VAL:CG2	45:LD:241:ARG:HG2	2.25	0.63
45:LF:300:MET:HG2	45:LF:300:MET:O	1.99	0.63
44:LG:232:ALA:O	44:LG:235:ILE:HG22	1.98	0.63
44:LG:273:ALA:O	44:LG:375:VAL:N	2.25	0.63
45:LH:12:CYS:HB3	45:LH:138:SER:HB2	1.80	0.63
45:LH:380:ARG:O	45:LH:383:GLU:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LI:72:PRO:HG2	45:LJ:1:MET:SD	2.38	0.63
45:LN:265:PHE:HB3	45:LN:374:ILE:HD13	1.81	0.63
44:MC:222:PRO:HG2	45:MD:324:LYS:HG2	1.78	0.63
44:MC:343:PHE:HE2	44:MC:350:GLY:HA3	1.64	0.63
44:ME:172:TYR:HB2	44:ME:203:MET:HE2	1.80	0.63
44:MG:258:ASN:O	44:MG:259:LEU:HD22	1.99	0.63
44:MG:292:THR:HG22	44:MG:317:MET:HE1	1.79	0.63
45:MH:279:GLN:HG2	45:MH:279:GLN:O	1.98	0.63
44:MK:388:PHE:CE2	44:MK:428:LEU:HD23	2.33	0.63
45:ML:67:ASP:HB3	45:ML:72:THR:HG21	1.80	0.63
46:NC:501:GTP:N7	45:ND:246:LEU:HD11	2.14	0.63
45:ND:149:THR:HB	45:ND:191:GLN:CG	2.25	0.63
44:NG:222:PRO:CG	45:NH:324:LYS:HD3	2.28	0.63
44:NI:284:GLU:HG2	44:NI:285:GLN:H	1.63	0.63
45:NJ:267:MET:CE	45:NJ:303:ALA:HB3	2.29	0.63
44:NK:26:LEU:HD12	44:NK:363:VAL:HG22	1.80	0.63
44:NK:101:ASN:HD22	44:NK:143:GLY:HA2	1.63	0.63
45:NL:245:GLN:OE1	45:NL:245:GLN:HA	1.97	0.63
44:NM:291:ILE:HG21	44:NM:373:ARG:HD2	1.79	0.63
45:NN:97:ALA:HA	45:NN:103:LYS:HD2	1.79	0.63
45:NN:342:VAL:CG1	45:NN:345:ILE:HG22	2.29	0.63
44:OA:93:ILE:CG2	44:OA:114:ILE:HD11	2.29	0.63
45:OD:201:VAL:O	45:OD:202:ILE:HD13	1.98	0.63
45:OD:285:THR:HG23	45:OD:287:PRO:HD2	1.78	0.63
45:OF:317:PHE:HB3	45:OF:321:MET:CE	2.28	0.63
44:OG:326:LYS:HD2	45:OJ:220:PRO:CD	2.29	0.63
44:OK:167:LEU:HA	44:OK:200:VAL:CG2	2.28	0.63
45:OL:137:HIS:CE1	45:OL:192:LEU:HD11	2.33	0.63
45:OL:198:GLU:HG2	45:OL:266:PHE:HE2	1.64	0.63
44:OM:286:LEU:N	44:OM:290:GLU:OE2	2.31	0.63
44:PC:185:TYR:O	44:PC:188:ILE:HG22	1.97	0.63
44:PE:224:TYR:CE2	45:PF:246:LEU:HD21	2.34	0.63
45:PH:67:ASP:OD1	45:PH:68:LEU:N	2.32	0.63
45:PH:135:ILE:HG13	45:PH:152:ILE:CD1	2.28	0.63
44:PI:135:PHE:O	44:PI:136:LEU:HD23	1.98	0.63
44:PI:217:LEU:O	44:PI:219:ILE:HD12	1.98	0.63
44:PI:250:VAL:HG23	44:PI:254:GLU:OE1	1.99	0.63
45:PJ:8:GLN:CG	45:PJ:65:LEU:HG	2.28	0.63
45:PJ:99:ASN:HA	45:PJ:142:GLY:CA	2.26	0.63
45:PJ:242:PHE:HB3	45:PJ:243:PRO:CD	2.28	0.63
44:PK:182:VAL:O	44:PK:182:VAL:HG12	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:199:ASP:OD2	44:PK:256:GLN:HG2	1.97	0.63
45:PL:116:VAL:HA	45:PL:119:VAL:CG1	2.28	0.63
44:PM:139:ASN:O	44:PM:170:THR:HG22	1.98	0.63
45:PN:36:TYR:CD1	45:PN:44:LEU:HD21	2.33	0.63
45:PN:86:ARG:HE	45:PN:87:PRO:CD	2.10	0.63
44:QA:51:THR:HG22	44:QA:52:PHE:CD1	2.33	0.63
45:QD:99:ASN:HA	45:QD:142:GLY:CA	2.29	0.63
44:QE:14:ILE:HD11	44:QE:69:ASP:HB2	1.80	0.63
44:QE:196:GLU:HG3	44:QE:197:HIS:CE1	2.33	0.63
45:QF:54:ALA:HB2	45:RF:283:ALA:HB2	1.78	0.63
44:QG:191:THR:HA	44:QG:194:LEU:HG	1.81	0.63
45:QL:244:GLY:HA2	45:QL:355:ASP:CG	2.18	0.63
45:QL:294:PHE:CD2	45:QL:333:VAL:HG11	2.32	0.63
45:QL:310:TYR:HA	45:QL:371:SER:HA	1.81	0.63
44:RA:346:TRP:CD1	45:RB:391:ARG:HG3	2.34	0.63
45:RB:202:ILE:HD12	45:RB:300:MET:CG	2.27	0.63
44:RC:154:LEU:HA	44:RC:157:LEU:CD2	2.28	0.63
44:RE:295:ALA:HB2	44:RE:375:VAL:HG21	1.81	0.63
44:RG:273:ALA:HB3	44:RG:286:LEU:HD11	1.79	0.63
44:RG:307:PRO:HA	44:RG:383:ALA:CB	2.28	0.63
44:RI:175:PRO:HG2	44:RI:304:LYS:CG	2.29	0.63
44:RI:252:ILE:HA	44:RI:255:PHE:CD2	2.33	0.63
45:RJ:318:ARG:HB2	45:RJ:364:ALA:CB	2.27	0.63
45:RN:6:HIS:HB3	45:RN:63:ALA:CB	2.28	0.63
45:RN:315:ALA:HA	45:RN:366:THR:O	1.98	0.63
44:SA:3:GLU:HG2	44:SA:64:ARG:HE	1.61	0.63
44:SA:227:LEU:O	44:SA:231:ILE:HG13	1.99	0.63
44:SA:372:MET:C	44:SA:373:ARG:HD2	2.19	0.63
45:SB:371:SER:O	45:SB:422:TYR:OH	2.17	0.63
45:SF:172:SER:CB	45:SF:205:GLU:HB2	2.29	0.63
44:SI:156:ARG:CA	44:SI:159:VAL:HG22	2.27	0.63
45:SJ:12:CYS:HB3	45:SJ:138:SER:HB2	1.78	0.63
44:SK:149:LEU:O	44:SK:153:LEU:N	2.20	0.63
44:SM:316:SER:HB3	44:SM:378:ILE:O	1.98	0.63
44:TA:34:GLY:O	44:TA:60:LYS:HA	1.97	0.63
45:TD:324:LYS:HD3	44:TE:222:PRO:HG2	1.81	0.63
45:TD:421:GLU:HG2	45:TD:424:GLN:OE1	1.99	0.63
44:TE:315:CYS:HB3	44:TE:351:PHE:HD1	1.62	0.63
44:TG:170:THR:HG21	44:TG:194:LEU:HD22	1.81	0.63
44:TG:262:TYR:HB3	44:TG:263:PRO:HD2	1.81	0.63
45:TH:99:ASN:HA	45:TH:142:GLY:HA3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:2:ARG:NH2	45:TJ:240:LEU:O	2.31	0.63
45:TJ:245:GLN:HE21	45:TJ:353:ILE:HB	1.64	0.63
45:TJ:254:ALA:O	44:TK:407:TRP:HH2	1.81	0.63
45:TL:187:LEU:HD21	45:TL:408:PHE:CD1	2.33	0.63
44:UC:234:VAL:O	44:UC:238:LEU:HG	1.98	0.63
45:UD:117:LEU:CG	45:UD:121:ARG:HH22	2.11	0.63
44:UG:238:LEU:CD1	44:UG:378:ILE:HG13	2.28	0.63
45:UH:112:LEU:O	45:UH:112:LEU:HD23	1.99	0.63
45:UH:178:THR:HG22	45:UH:179:VAL:N	2.13	0.63
44:UI:188:ILE:HG23	44:UI:425:LEU:CD1	2.29	0.63
44:UK:14:ILE:HG22	44:UK:18:ASN:ND2	2.12	0.63
44:UK:119:LEU:O	44:UK:122:ILE:N	2.31	0.63
44:UK:268:MET:HG3	44:UK:378:ILE:HG22	1.79	0.63
44:UK:298:PRO:HA	44:UK:301:MET:HE2	1.80	0.63
44:UK:321:GLY:HA2	44:UK:359:PRO:CG	2.19	0.63
45:VB:230:SER:HA	45:VB:233:MET:HE2	1.79	0.63
45:VD:274:THR:HG23	45:VD:279:GLN:HB2	1.80	0.63
44:VE:20:CYS:HA	44:VE:232:ALA:CB	2.29	0.63
45:VH:97:ALA:HB2	45:VH:143:THR:HB	1.81	0.63
45:WD:50:TYR:CD2	45:WD:241:ARG:HD3	2.33	0.63
45:WD:134:GLN:O	45:WD:135:ILE:HD13	1.99	0.63
44:WE:178:SER:CB	45:WF:347:ASN:HB3	2.27	0.63
45:WH:210:ILE:HG23	45:WH:214:THR:CG2	2.27	0.63
45:WJ:61:PRO:HG2	45:WJ:84:LEU:HB3	1.80	0.63
44:WK:295:ALA:HB1	44:WK:377:MET:HE2	1.80	0.63
45:WN:268:ILE:HG22	45:WN:368:VAL:HG22	1.79	0.63
5:OD:42:ASP:OD2	44:DC:72:PRO:HB3	1.97	0.63
5:OD:223:ILE:O	35:7R:506:LEU:HD12	1.98	0.63
11:0Q:17:ILE:HG21	45:WB:125:GLU:OE2	1.97	0.63
16:0X:49:ILE:HG13	44:MA:282:TYR:HD2	1.62	0.63
12:1S:46:TRP:NE1	44:WC:89:PRO:HD3	2.13	0.63
2:2A:124:LEU:CD1	45:AJ:361:LEU:HD12	2.27	0.63
26:2R:258:VAL:CG2	44:CG:41:THR:HG23	2.29	0.63
12:2S:216:LYS:HZ3	45:AJ:413:SER:HB2	1.63	0.63
38:5G:22:LYS:NZ	38:5G:30:PRO:HD3	2.12	0.63
38:5G:212:THR:HB	38:5G:214:LEU:CD1	2.29	0.63
11:5Q:104:ARG:HH22	11:5Q:157:HIS:CE1	2.17	0.63
40:6F:85:THR:HG23	45:JF:355:ASP:CG	2.19	0.63
41:6G:123:LEU:HD12	41:6G:127:ILE:CD1	2.24	0.63
41:6G:274:ASN:HA	41:6G:276:PRO:HD2	1.80	0.63
11:6Q:117:PHE:HD2	44:AM:264:ARG:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:288:LYS:HZ1	44:CM:44:GLY:N	1.96	0.63
35:7R:78:ILE:CG2	35:7R:82:GLN:HG2	2.27	0.63
35:7R:318:TYR:CD1	35:7R:319:PRO:HD2	2.32	0.63
35:7R:419:GLN:HG2	35:7R:422:TYR:CD2	2.33	0.63
44:AA:241:SER:OG	44:AA:250:VAL:O	2.17	0.63
44:AC:18:ASN:O	44:AC:22:GLU:OE1	2.16	0.63
44:AC:132:LEU:CD2	44:AC:164:LYS:HZ2	2.08	0.63
45:AD:105:HIS:O	45:AD:105:HIS:ND1	2.31	0.63
44:AG:276:ILE:HG23	44:AG:281:ALA:HB2	1.80	0.63
45:AH:416:ASN:HA	45:AH:419:VAL:HG12	1.81	0.63
44:AI:118:CYS:O	44:AI:122:ILE:HG12	1.99	0.63
44:AM:320:ARG:HA	44:AM:356:ASN:O	1.99	0.63
45:AN:167:PHE:CZ	45:AN:233:MET:HG2	2.34	0.63
45:AN:201:VAL:HG23	45:AN:301:CYS:SG	2.39	0.63
45:AN:245:GLN:N	45:AN:245:GLN:OE1	2.30	0.63
44:BA:31:GLN:NE2	44:BA:37:PRO:HB3	2.13	0.63
44:BC:221:ARG:NH1	45:BD:325:GLU:HB2	2.14	0.63
45:BD:147:MET:HA	45:BD:150:LEU:CD2	2.28	0.63
44:BE:63:PRO:HG3	44:BE:86:LEU:HG	1.80	0.63
44:BI:34:GLY:O	44:BI:60:LYS:HA	1.99	0.63
45:BJ:87:PRO:HD3	45:CH:281:TYR:HE2	1.64	0.63
44:BK:259:LEU:HD21	44:BK:316:SER:OG	1.98	0.63
44:BM:141:VAL:HG12	44:BM:171:ILE:O	1.98	0.63
45:BN:383:GLU:O	45:BN:386:THR:HG22	1.99	0.63
44:CA:136:LEU:CD2	44:CA:167:LEU:HB2	2.29	0.63
44:CA:270:SER:HB3	44:CA:377:MET:O	1.99	0.63
44:CA:386:GLU:O	44:CA:390:ARG:HG2	1.99	0.63
44:CC:80:THR:HA	44:CC:84:ARG:NE	2.05	0.63
45:CD:286:VAL:CG2	45:CD:321:MET:HE3	2.29	0.63
45:CF:198:GLU:OE2	45:CF:254:ALA:HB2	1.98	0.63
45:CJ:173:PRO:HG3	45:CJ:380:ARG:HD3	1.80	0.63
45:CJ:183:TYR:O	45:CJ:186:THR:HG22	1.99	0.63
45:CJ:325:GLU:HA	45:CJ:328:GLU:HG2	1.81	0.63
44:CM:70:LEU:CD1	44:CM:95:GLY:HA3	2.25	0.63
44:CM:122:ILE:HG22	44:CM:161:TYR:OH	1.97	0.63
45:CN:101:TRP:HE1	45:CN:146:GLY:HA2	1.63	0.63
45:CN:169:VAL:HG22	45:CN:202:ILE:CG2	2.28	0.63
45:CN:212:PHE:O	45:CN:216:LYS:HA	1.98	0.63
45:DB:348:ASN:HA	44:DC:181:VAL:CG1	2.29	0.63
45:DD:184:ASN:OD1	45:DD:185:ALA:N	2.31	0.63
45:DD:334:GLN:HA	45:DD:341:PHE:CE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:145:THR:O	44:DG:149:LEU:HB2	1.99	0.63
44:DM:261:PRO:HA	45:DN:397:TRP:HH2	1.64	0.63
44:EA:313:MET:H	44:EA:381:SER:HA	1.63	0.63
44:EI:271:SER:HB2	44:EI:377:MET:SD	2.38	0.63
45:EJ:86:ARG:HE	45:EJ:87:PRO:HD2	1.63	0.63
44:EK:210:TYR:CD1	44:EK:227:LEU:HD21	2.34	0.63
44:FC:170:THR:O	44:FC:204:LEU:HB2	1.99	0.63
45:FD:268:ILE:HG13	45:FD:367:PHE:O	1.98	0.63
44:FG:124:LYS:NZ	44:GG:297:GLU:OE2	2.20	0.63
45:FH:269:GLY:HA2	45:FH:300:MET:CE	2.29	0.63
45:FJ:260:PHE:HB3	45:FJ:261:PRO:HD2	1.80	0.63
44:FK:97:GLU:HG2	44:FK:105:ARG:HH22	1.64	0.63
44:FK:276:ILE:HG23	44:FK:281:ALA:HB2	1.81	0.63
45:FL:321:MET:SD	45:FL:322:SER:N	2.70	0.63
44:GA:288:VAL:HG21	44:GA:323:VAL:HG21	1.79	0.63
44:GC:229:ARG:HH11	44:GC:363:VAL:HG11	1.62	0.63
45:GD:170:VAL:HG22	45:GD:171:PRO:HD2	1.80	0.63
45:GD:200:MET:CE	45:GD:268:ILE:HG22	2.28	0.63
45:GF:360:GLY:O	45:GF:361:LEU:HD23	1.98	0.63
45:GH:113:ILE:HA	45:GH:116:VAL:CG1	2.29	0.63
44:GI:145:THR:HG23	46:GI:501:GTP:O2G	1.97	0.63
44:GI:209:ILE:HG22	44:GI:213:CYS:SG	2.39	0.63
44:GM:269:LEU:HG	44:GM:379:SER:OG	1.98	0.63
44:GM:287:SER:O	44:GM:291:ILE:HG23	1.99	0.63
44:GM:288:VAL:HA	44:GM:291:ILE:CG1	2.22	0.63
44:GM:398:MET:CE	45:GN:345:ILE:HG13	2.28	0.63
45:GN:1:MET:N	45:GN:3:GLU:OE1	2.21	0.63
45:GN:68:LEU:HA	45:GN:93:GLY:HA3	1.80	0.63
44:HA:401:LYS:HD3	45:HB:344:TRP:CH2	2.33	0.63
45:HB:232:ALA:HB1	45:HB:268:ILE:HD12	1.78	0.63
45:HB:284:LEU:HB2	45:HB:362:LYS:NZ	2.14	0.63
44:HC:223:THR:O	44:HC:227:LEU:HG	1.99	0.63
45:HD:50:TYR:HD2	45:HD:241:ARG:HD3	1.64	0.63
45:HD:130:LEU:CD2	45:HD:162:ARG:HG3	2.29	0.63
45:HD:213:ARG:HH21	45:HD:297:LYS:HE2	1.62	0.63
44:HE:221:ARG:HD2	45:HF:322:SER:OG	1.97	0.63
44:HK:76:ASP:OD2	45:HL:46:ARG:NH2	2.29	0.63
44:HM:100:ALA:HB1	45:HN:255:VAL:CG2	2.28	0.63
45:HN:42:LEU:HD22	45:HN:45:GLU:OE2	1.99	0.63
45:HN:113:ILE:HD12	45:HN:150:LEU:CD1	2.28	0.63
45:HN:385:PHE:C	45:HN:387:ALA:HA	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:186:THR:HG21	45:IB:385:PHE:CD2	2.34	0.63
44:IE:60:LYS:HD3	45:JF:281:TYR:HE1	1.64	0.63
44:IG:210:TYR:CE1	44:IG:227:LEU:HD11	2.33	0.63
44:IK:262:TYR:CE1	45:IN:393:ALA:HA	2.33	0.63
44:IK:311:LYS:CD	44:IK:342:GLN:HG3	2.28	0.63
45:IN:64:ILE:HG13	45:IN:89:ASN:ND2	2.13	0.63
44:JE:221:ARG:HG2	45:JF:322:SER:CB	2.29	0.63
44:JG:393:HIS:O	44:JG:397:LEU:HD23	1.99	0.63
44:JI:68:LEU:HD11	44:JI:118:CYS:SG	2.39	0.63
44:JI:118:CYS:O	44:JI:122:ILE:HG12	1.98	0.63
44:JI:320:ARG:HA	44:JI:356:ASN:HB2	1.80	0.63
44:JI:335:ILE:HD12	44:JI:338:LYS:CE	2.28	0.63
45:KB:169:VAL:HA	45:KB:202:ILE:HB	1.80	0.63
44:KC:71:GLU:OE1	44:KC:73:THR:HB	1.98	0.63
45:KF:139:LEU:CD1	45:KF:168:SER:HB2	2.29	0.63
44:KK:256:GLN:O	44:KK:260:VAL:HB	1.98	0.63
44:KM:64:ARG:CB	44:KM:125:LEU:HD21	2.27	0.63
45:LB:309:ARG:H	45:LB:372:THR:HG22	1.63	0.63
44:LC:98:ASP:OD1	44:LC:99:ALA:N	2.32	0.63
44:LC:414:GLU:HB2	44:LC:417:GLU:OE1	1.98	0.63
45:LD:257:LEU:HD21	45:LD:314:SER:HB2	1.80	0.63
45:LF:1:MET:O	45:LF:2:ARG:HG2	1.99	0.63
44:LG:209:ILE:HA	44:LG:212:ILE:CG2	2.27	0.63
45:LN:216:LYS:HE2	45:LN:275:SER:HB2	1.81	0.63
45:LN:313:ALA:HB1	45:LN:367:PHE:CZ	2.33	0.63
45:MB:97:ALA:CB	45:MB:143:THR:HB	2.28	0.63
45:MB:161:ASP:OD1	45:MB:162:ARG:N	2.31	0.63
45:MF:214:THR:O	45:MF:275:SER:HB3	1.99	0.63
45:MJ:182:PRO:HG2	45:MJ:388:MET:HE3	1.79	0.63
45:ML:28:HIS:NE2	45:ML:241:ARG:HD2	2.14	0.63
45:ML:143:THR:HG22	48:ML:501:GDP:O2B	1.97	0.63
44:MM:161:TYR:CD1	44:MM:164:LYS:HB2	2.34	0.63
44:NC:69:ASP:OD1	44:NC:71:GLU:N	2.25	0.63
44:NC:298:PRO:HA	44:NC:301:MET:HE3	1.79	0.63
45:ND:238:CYS:SG	45:ND:239:CYS:N	2.71	0.63
45:NL:54:ALA:HA	45:OL:283:ALA:CB	2.29	0.63
44:NM:105:ARG:NH2	44:NM:110:ILE:HD13	2.13	0.63
44:NM:316:SER:HB3	44:NM:378:ILE:HB	1.79	0.63
44:OA:322:ASP:OD2	44:OA:372:MET:HB3	1.99	0.63
45:OB:20:PHE:HB2	45:OB:233:MET:CE	2.28	0.63
45:OD:60:VAL:HG11	45:OD:86:ARG:HE	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:329:ASN:HB3	45:OH:175:VAL:HG12	1.79	0.63
45:OH:200:MET:HE3	45:OH:200:MET:HA	1.81	0.63
44:OK:181:VAL:HG12	45:OL:256:ASN:CB	2.27	0.63
45:ON:344:TRP:CE3	45:ON:345:ILE:HG23	2.33	0.63
44:PA:107:HIS:CD2	44:PA:152:LEU:HB2	2.33	0.63
44:PA:306:ASP:HB3	44:PA:309:HIS:ND1	2.14	0.63
45:PB:330:MET:HB3	45:PB:349:ILE:HG21	1.79	0.63
45:PD:5:VAL:HA	45:PD:130:LEU:CD2	2.29	0.63
44:PE:187:SER:HB3	44:PE:391:LEU:HD23	1.80	0.63
45:PF:187:LEU:HD11	45:PF:408:PHE:CE1	2.33	0.63
44:PG:325:PRO:HG3	45:PJ:222:TYR:CE2	2.33	0.63
44:PK:6:SER:CA	44:PK:136:LEU:HB2	2.28	0.63
44:PK:209:ILE:CG2	44:PK:227:LEU:HD22	2.28	0.63
45:PL:314:SER:HB3	45:PL:368:VAL:O	1.99	0.63
45:PL:319:GLY:HA2	45:PL:357:PRO:CD	2.29	0.63
44:PM:200:VAL:HA	44:PM:266:HIS:CB	2.25	0.63
44:PM:265:ILE:HG23	44:PM:432:TYR:CE1	2.33	0.63
44:PM:321:GLY:O	44:PM:357:TYR:HA	1.99	0.63
45:PN:203:ASP:HB2	45:PN:301:CYS:HA	1.81	0.63
45:QB:3:GLU:HG3	45:QB:62:ARG:NH1	2.14	0.63
45:QB:167:PHE:HE1	45:QB:200:MET:HG2	1.64	0.63
44:QC:70:LEU:HB3	44:QC:97:GLU:O	1.98	0.63
44:QC:206:ASN:CA	44:QC:209:ILE:HG12	2.28	0.63
45:QF:7:ILE:HB	45:QF:135:ILE:CD1	2.27	0.63
45:QH:4:ILE:HD11	45:QH:50:TYR:OH	1.98	0.63
45:QH:105:HIS:NE2	45:QH:150:LEU:HB2	2.13	0.63
45:QH:267:MET:N	45:QH:369:GLY:O	2.29	0.63
45:QH:324:LYS:HB2	44:QI:210:TYR:CE1	2.34	0.63
45:QH:345:ILE:HG23	45:QH:348:ASN:HD22	1.62	0.63
45:QH:347:ASN:OD1	44:QI:394:LYS:NZ	2.25	0.63
44:QI:186:ASN:OD1	44:QI:187:SER:N	2.32	0.63
45:QJ:190:HIS:O	45:QJ:193:VAL:HG12	1.99	0.63
45:QJ:324:LYS:HD2	44:QK:210:TYR:CD1	2.34	0.63
44:QK:47:ASP:HB2	44:QK:49:PHE:CD1	2.34	0.63
45:QL:385:PHE:CE2	45:QL:412:GLU:HB2	2.33	0.63
45:QN:132:GLY:HA3	45:QN:163:ILE:HG13	1.80	0.63
44:RA:262:TYR:CZ	45:RB:393:ALA:HA	2.32	0.63
44:RC:238:LEU:N	44:RC:318:MET:HE1	2.13	0.63
45:RH:18:ALA:O	45:RH:22:GLU:HG3	1.98	0.63
45:RH:372:THR:HA	45:RH:422:TYR:CE2	2.34	0.63
45:RL:54:ALA:HB1	45:SL:283:ALA:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RN:68:LEU:HG	45:RN:96:GLY:H	1.62	0.63
45:RN:139:LEU:CD1	45:RN:168:SER:HB3	2.26	0.63
44:SA:270:SER:HB3	44:SA:378:ILE:HD13	1.79	0.63
44:SC:68:LEU:CD2	44:SC:153:LEU:HD11	2.29	0.63
44:SC:82:THR:HA	44:SC:84:ARG:NH1	2.13	0.63
44:SG:68:LEU:HD21	44:SG:118:CYS:CB	2.28	0.63
44:SG:240:ALA:HB1	44:SG:356:ASN:ND2	2.13	0.63
45:SJ:12:CYS:SG	45:SJ:138:SER:HB2	2.38	0.63
45:SJ:187:LEU:HD11	45:SJ:408:PHE:CZ	2.33	0.63
44:SK:326:LYS:NZ	45:SL:220:PRO:HD2	2.13	0.63
45:SL:290:THR:HG21	45:SL:329:GLN:OE1	1.99	0.63
44:TA:208:ALA:O	44:TA:212:ILE:HG12	1.98	0.63
45:TB:262:ARG:NH1	45:TB:421:GLU:OE1	2.32	0.63
45:TD:246:LEU:HD13	45:TD:353:ILE:HD13	1.79	0.63
44:TE:141:VAL:HG11	44:TE:172:TYR:CD1	2.33	0.63
44:TE:414:GLU:HB2	44:TE:417:GLU:CG	2.26	0.63
45:TF:68:LEU:HB2	45:TF:147:MET:CE	2.29	0.63
45:TF:113:ILE:HD11	45:TF:151:LEU:CB	2.27	0.63
45:TF:173:PRO:HG2	45:TF:380:ARG:NH1	2.08	0.63
45:TF:319:GLY:N	45:TF:354:CYS:O	2.23	0.63
44:TG:88:HIS:ND1	44:TG:90:GLU:HG2	2.14	0.63
45:TL:187:LEU:HD11	45:TL:408:PHE:CE1	2.34	0.63
45:TN:7:ILE:HB	45:TN:135:ILE:HD13	1.81	0.63
45:TN:64:ILE:HG21	45:TN:119:VAL:HG11	1.80	0.63
45:TN:97:ALA:HA	45:TN:103:LYS:HG2	1.79	0.63
44:UA:3:GLU:HA	44:UA:51:THR:CA	2.22	0.63
45:UB:102:ALA:HB2	45:UB:403:MET:HE3	1.81	0.63
45:UB:215:LEU:CD2	45:UB:217:LEU:HD22	2.29	0.63
45:UB:286:VAL:CG1	45:UB:329:GLN:HG3	2.29	0.63
44:UC:312:TYR:N	44:UC:342:GLN:O	2.31	0.63
44:UC:344:VAL:CG1	44:UC:347:CYS:HB3	2.28	0.63
44:UC:408:TYR:HB3	44:UC:413:MET:CE	2.29	0.63
45:UD:39:ASP:N	45:UD:43:GLN:OE1	2.32	0.63
44:UE:121:ARG:HD2	44:UE:124:LYS:NZ	2.14	0.63
45:UF:165:GLU:HG2	45:UF:198:GLU:OE1	1.99	0.63
44:UG:207:GLU:O	44:UG:210:TYR:HB2	1.99	0.63
45:UH:377:MET:HA	45:UH:380:ARG:CD	2.29	0.63
45:UJ:133:PHE:O	45:UJ:165:GLU:HB2	1.97	0.63
44:UK:271:SER:HB2	44:UK:377:MET:CE	2.29	0.63
45:UL:312:THR:O	45:UL:370:ASN:N	2.31	0.63
44:VA:324:VAL:HB	44:VA:325:PRO:HD2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:326:LYS:HG3	45:VD:212:PHE:CE2	2.33	0.63
45:VD:72:THR:HG23	45:VD:73:MET:SD	2.39	0.63
45:VF:164:MET:N	45:VF:197:ASP:OD2	2.32	0.63
44:VI:171:ILE:HD13	44:VI:204:LEU:HB2	1.81	0.63
44:VI:348:PRO:HB2	45:VL:384:GLN:OE1	1.97	0.63
45:VJ:314:SER:HB3	45:VJ:368:VAL:CG2	2.29	0.63
45:VL:418:LEU:O	45:VL:421:GLU:HG3	1.99	0.63
44:VM:269:LEU:HB2	44:VM:301:MET:CE	2.28	0.63
44:WA:361:THR:HG22	44:WA:362:VAL:H	1.63	0.63
45:WB:68:LEU:HG	45:WB:96:GLY:H	1.62	0.63
45:WB:85:PHE:HB3	45:WB:90:PHE:HE1	1.63	0.63
44:WE:173:PRO:HB3	44:WE:183:GLU:HG3	1.79	0.63
45:WF:116:VAL:O	45:WF:119:VAL:HG12	1.99	0.63
45:WF:288:GLU:O	45:WF:291:GLN:HG3	1.99	0.63
44:WI:319:TYR:HB3	44:WI:323:VAL:HG21	1.79	0.63
44:WI:352:LYS:HA	45:WL:177:ASP:O	1.98	0.63
45:WJ:7:ILE:HB	45:WJ:135:ILE:CD1	2.29	0.63
44:WK:318:MET:HA	44:WK:354:GLY:O	1.99	0.63
45:WL:417:ASP:OD1	45:WL:421:GLU:HG3	1.99	0.63
44:WM:313:MET:HA	44:WM:344:VAL:CG1	2.28	0.63
44:WM:335:ILE:HD11	44:WM:341:ILE:HG21	1.80	0.63
44:WM:360:PRO:HD2	44:WM:371:VAL:O	1.99	0.63
5:0D:38:ILE:CD1	44:DC:84:ARG:HB2	2.27	0.63
10:0N:213:PRO:O	45:KN:32:PRO:HD3	1.97	0.63
10:0N:249:LEU:HB3	45:KN:92:PHE:CZ	2.33	0.63
17:1B:63:GLN:NE2	44:LC:80:THR:HB	2.09	0.63
4:1C:53:TYR:OH	45:EL:320:ARG:HB3	1.97	0.63
20:1J:263:PHE:CD2	44:II:282:TYR:HA	2.28	0.63
22:1L:406:ARG:NH2	45:CF:357:PRO:O	2.29	0.63
24:2O:377:GLN:HG2	44:VC:279:GLU:OE2	1.98	0.63
16:3X:53:ILE:CD1	44:MM:279:GLU:HA	2.28	0.63
31:4H:193:LEU:CG	45:AL:362:LYS:HD2	2.29	0.63
35:4R:85:TRP:CD2	44:AE:372:MET:HE3	2.32	0.63
37:5D:19:ARG:HB2	45:KN:418:LEU:N	2.12	0.63
37:5D:117:PRO:HG3	44:NM:321:GLY:HA3	1.80	0.63
35:5R:16:CYS:HG	35:5R:17:PHE:N	1.96	0.63
41:6G:136:PRO:HB3	44:VG:340:THR:HB	1.80	0.63
41:6G:185:TYR:OH	44:UG:116:ASP:HA	1.97	0.63
11:6Q:109:GLN:O	11:6Q:122:PRO:HB3	1.99	0.63
35:6R:318:TYR:HB2	35:6R:321:MET:SD	2.38	0.63
35:7R:152:LYS:HG2	35:7R:160:TYR:HE1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:173:LEU:HD22	35:7R:178:PHE:CE2	2.33	0.63
45:AB:3:GLU:HA	45:AB:49:VAL:HG13	1.81	0.63
44:AC:62:VAL:HG21	44:BC:283:HIS:O	1.99	0.63
44:AC:145:THR:HG22	46:AC:501:GTP:O2G	1.98	0.63
45:AD:7:ILE:HD11	45:AD:66:MET:CE	2.28	0.63
44:AE:137:VAL:HG12	44:AE:167:LEU:O	1.99	0.63
45:AF:184:ASN:OD1	45:AF:185:ALA:N	2.31	0.63
45:AF:309:ARG:N	45:AF:372:THR:OG1	2.31	0.63
45:AF:376:GLU:CG	45:AF:380:ARG:HH21	2.11	0.63
44:AG:88:HIS:HE1	44:BG:280:LYS:HD2	1.64	0.63
44:AG:254:GLU:OE1	45:AJ:98:GLY:HA2	1.98	0.63
45:AL:376:GLU:CG	45:AL:380:ARG:HH21	2.12	0.63
45:AL:398:TYR:HB3	45:AL:403:MET:CE	2.28	0.63
44:AM:115:VAL:O	44:AM:119:LEU:HD23	1.99	0.63
44:AM:176:GLN:HG3	45:AN:331:LEU:CD1	2.29	0.63
44:BC:69:ASP:OD1	44:BC:70:LEU:N	2.28	0.63
44:BC:105:ARG:HD2	45:BD:251:ARG:NH2	2.14	0.63
44:BC:326:LYS:CG	45:BF:220:PRO:HD2	2.27	0.63
44:BE:255:PHE:O	44:BE:259:LEU:HD13	1.99	0.63
45:BF:99:ASN:HA	45:BF:142:GLY:CA	2.23	0.63
44:BG:36:MET:HB2	44:BG:61:HIS:NE2	2.13	0.63
44:BG:56:THR:HG22	44:BG:60:LYS:O	1.99	0.63
44:BG:171:ILE:HG23	44:BG:204:LEU:O	1.99	0.63
44:BK:19:ALA:HA	44:BK:22:GLU:OE1	1.98	0.63
44:BK:177:VAL:HG13	45:BL:327:ASP:HB3	1.81	0.63
44:BM:98:ASP:O	44:BM:105:ARG:NH1	2.32	0.63
44:CC:68:LEU:HD21	44:CC:118:CYS:CB	2.25	0.63
45:CF:1:MET:CE	44:CG:72:PRO:HG2	2.29	0.63
45:CF:345:ILE:HG13	44:CG:398:MET:CE	2.29	0.63
45:CF:345:ILE:O	45:CF:345:ILE:HG23	1.97	0.63
44:CG:115:VAL:CG2	44:CG:156:ARG:HD2	2.29	0.63
44:CG:260:VAL:HG22	44:CG:262:TYR:O	1.99	0.63
45:CH:260:PHE:HB3	45:CH:261:PRO:HD2	1.80	0.63
44:CM:174:SER:HB3	44:CM:207:GLU:HB2	1.81	0.63
44:DA:208:ALA:O	44:DA:212:ILE:HG12	1.98	0.63
44:DA:317:MET:O	44:DA:353:VAL:HA	1.99	0.63
45:DB:65:LEU:O	45:DB:91:VAL:HG12	1.98	0.63
45:DB:86:ARG:NH1	45:EB:281:TYR:HB2	2.12	0.63
45:DB:117:LEU:CB	45:DB:154:LYS:HZ1	2.12	0.63
45:DF:92:PHE:O	45:DF:112:LEU:HD11	1.99	0.63
44:DI:30:ILE:HG13	44:DI:30:ILE:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:42:LEU:HD13	45:DJ:45:GLU:OE2	1.99	0.63
44:DM:68:LEU:CD2	44:DM:153:LEU:HD11	2.27	0.63
44:DM:71:GLU:OE1	44:DM:73:THR:N	2.23	0.63
44:DM:224:TYR:HE1	46:DM:501:GTP:C5	2.17	0.63
45:DN:101:TRP:HB3	45:DN:398:TYR:HE1	1.64	0.63
45:DN:326:VAL:O	45:DN:330:MET:N	2.31	0.63
45:EB:187:LEU:HD11	45:EB:408:PHE:CZ	2.33	0.63
45:EB:375:GLN:O	45:EB:379:LYS:HG3	1.98	0.63
45:ED:17:GLY:CA	45:ED:20:PHE:HB3	2.23	0.63
45:ED:304:ASP:OD1	45:ED:306:ARG:HG2	1.99	0.63
44:EE:213:CYS:O	44:EE:217:LEU:HB2	1.99	0.63
44:EG:340:THR:HG23	44:EG:341:ILE:CD1	2.28	0.63
45:EN:314:SER:N	45:EN:368:VAL:O	2.30	0.63
45:FB:342:VAL:HG22	45:FB:348:ASN:HD22	1.63	0.63
44:FC:188:ILE:HG13	44:FC:395:PHE:CD1	2.34	0.63
44:FI:240:ALA:HB3	44:FI:320:ARG:NH2	2.13	0.63
45:FJ:167:PHE:CE2	45:FJ:233:MET:HG2	2.34	0.63
45:FN:44:LEU:HD23	45:FN:47:ILE:HD13	1.79	0.63
45:FN:64:ILE:HG12	45:FN:119:VAL:HG22	1.79	0.63
45:FN:211:CYS:HB2	45:FN:220:PRO:HG2	1.80	0.63
44:GA:434:GLU:O	44:GA:437:ILE:HG12	1.99	0.63
45:GD:253:LEU:O	45:GD:257:LEU:HD13	1.98	0.63
45:GF:269:GLY:HA2	45:GF:300:MET:HE1	1.80	0.63
45:GH:302:ALA:HB3	45:GH:377:MET:HE3	1.79	0.63
44:GK:229:ARG:NH2	44:GK:363:VAL:HG21	2.14	0.63
45:GN:274:THR:HB	45:GN:282:ARG:HH11	1.63	0.63
45:HB:198:GLU:OE2	45:HB:254:ALA:HB2	1.98	0.63
45:HB:313:ALA:HB1	45:HB:367:PHE:HE1	1.63	0.63
44:HE:11:GLN:HG3	44:HE:74:VAL:CG1	2.28	0.63
44:HE:247:ALA:C	44:HE:248:LEU:HD12	2.19	0.63
44:HG:149:LEU:O	44:HG:153:LEU:HG	1.99	0.63
45:HH:86:ARG:HD3	45:IH:281:TYR:CD2	2.33	0.63
44:HK:252:ILE:HA	44:HK:255:PHE:CD2	2.33	0.63
44:HM:319:TYR:HB2	44:HM:354:GLY:O	1.99	0.63
44:HM:404:PHE:CE1	45:HN:259:PRO:HA	2.33	0.63
44:IA:384:ILE:O	44:IA:387:VAL:HG22	1.98	0.63
45:IB:271:ALA:HB1	45:IB:272:PRO:HA	1.79	0.63
45:ID:65:LEU:HD22	45:ID:90:PHE:CE2	2.33	0.63
44:IE:408:TYR:HB3	44:IE:413:MET:HE2	1.80	0.63
45:IF:86:ARG:HH21	45:IF:87:PRO:CG	2.12	0.63
44:II:56:THR:HG21	44:II:60:LYS:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:256:ASN:O	45:IJ:257:LEU:HD22	1.98	0.63
45:IL:113:ILE:HA	45:IL:116:VAL:HG12	1.81	0.63
44:IM:103:PHE:CZ	44:IM:189:LEU:HB3	2.34	0.63
45:JH:10:GLY:HA2	45:JH:143:THR:CG2	2.29	0.63
45:JH:31:ASP:HB2	45:JH:32:PRO:HD2	1.81	0.63
45:JJ:25:SER:HB3	45:JJ:30:ILE:HB	1.79	0.63
44:JM:56:THR:HG23	44:JM:58:ALA:H	1.64	0.63
44:JM:135:PHE:HE2	44:JM:164:LYS:HG2	1.63	0.63
45:JN:334:GLN:HA	45:JN:341:PHE:CE2	2.29	0.63
45:KB:22:GLU:HA	45:KB:81:PHE:CD2	2.34	0.63
45:KB:325:GLU:HA	45:KB:328:GLU:HG2	1.80	0.63
44:KC:265:ILE:HG22	44:KC:380:ASN:HD21	1.63	0.63
44:KC:339:ARG:NE	44:KC:339:ARG:HA	2.13	0.63
44:KC:340:THR:HG23	44:KC:341:ILE:CD1	2.21	0.63
44:KC:404:PHE:HE1	45:KD:259:PRO:HA	1.63	0.63
44:KG:175:PRO:HG3	44:KG:304:LYS:CG	2.21	0.63
44:KM:164:LYS:NZ	44:KM:165:SER:O	2.25	0.63
45:KN:412:GLU:HA	45:KN:415:MET:HB3	1.81	0.63
44:LA:229:ARG:HD3	44:LA:363:VAL:CG1	2.29	0.63
44:LA:386:GLU:O	44:LA:390:ARG:HG2	1.98	0.63
44:LA:425:LEU:O	44:LA:428:LEU:N	2.31	0.63
45:LB:286:VAL:HA	45:LB:289:LEU:HD12	1.81	0.63
44:LG:168:GLY:N	44:LG:200:VAL:O	2.31	0.63
45:LH:372:THR:HA	45:LH:422:TYR:CE2	2.34	0.63
44:LI:275:ILE:CD1	44:LI:368:LEU:HD22	2.29	0.63
45:LJ:304:ASP:OD2	45:LJ:306:ARG:HG2	1.99	0.63
44:LM:69:ASP:HB3	44:LM:75:ILE:HG13	1.81	0.63
45:LN:311:LEU:HD13	45:LN:342:VAL:HG21	1.81	0.63
45:MB:207:LEU:HB3	45:MB:225:LEU:HD21	1.80	0.63
45:MD:36:TYR:CZ	45:MD:44:LEU:HD11	2.34	0.63
44:MG:173:PRO:HA	44:MG:211:ASP:OD2	1.99	0.63
45:MJ:7:ILE:HB	45:MJ:135:ILE:CD1	2.29	0.63
45:ML:275:SER:HG	45:ML:278:SER:CB	2.12	0.63
44:MM:155:GLU:HG2	44:MM:197:HIS:CD2	2.32	0.63
44:MM:315:CYS:HA	44:MM:379:SER:HB3	1.81	0.63
44:NA:253:THR:HA	44:NA:256:GLN:HE22	1.63	0.63
44:NE:207:GLU:O	44:NE:210:TYR:HB2	1.98	0.63
44:NG:220:GLU:O	45:NH:324:LYS:NZ	2.25	0.63
44:NG:307:PRO:HB3	44:NG:312:TYR:HE1	1.62	0.63
45:NH:193:VAL:HA	45:NH:264:HIS:NE2	2.13	0.63
45:NJ:100:ASN:OD1	45:NJ:103:LYS:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:172:SER:OG	45:NJ:173:PRO:HD2	1.99	0.63
45:NL:28:HIS:NE2	45:NL:241:ARG:HD2	2.14	0.63
45:NL:65:LEU:HB3	45:NL:73:MET:HE1	1.79	0.63
45:NL:285:THR:OG1	45:NL:287:PRO:HD2	1.98	0.63
44:NM:7:ILE:HB	44:NM:137:VAL:HG12	1.81	0.63
44:NM:411:GLU:N	44:NM:411:GLU:OE1	2.31	0.63
44:OA:194:LEU:HB2	44:OA:198:THR:OG1	1.98	0.63
45:OB:230:SER:HA	45:OB:233:MET:HE2	1.81	0.63
45:OB:246:LEU:CD1	45:OB:353:ILE:HD12	2.23	0.63
44:OE:183:GLU:HA	44:OE:186:ASN:OD1	1.98	0.63
44:OG:28:HIS:HA	44:OG:243:ARG:HH22	1.62	0.63
45:OH:7:ILE:HG23	45:OH:135:ILE:CD1	2.28	0.63
45:OH:207:LEU:HD13	45:OH:225:LEU:HD23	1.81	0.63
44:OI:133:GLN:HB3	44:OI:252:ILE:HD11	1.80	0.63
44:OI:294:SER:HA	44:OI:297:GLU:HG3	1.81	0.63
45:OJ:8:GLN:HB2	45:OJ:13:GLY:HA3	1.79	0.63
44:PA:101:ASN:H	44:PA:144:GLY:HA3	1.64	0.63
44:PC:5:ILE:HA	44:PC:64:ARG:CZ	2.28	0.63
44:PC:229:ARG:HG2	44:PC:229:ARG:HH11	1.63	0.63
44:PE:276:ILE:HG23	44:PE:281:ALA:CB	2.28	0.63
44:PG:439:THR:HB	45:PJ:390:ARG:HH12	1.61	0.63
45:PH:168:SER:O	45:PH:201:VAL:HA	1.99	0.63
45:PJ:8:GLN:NE2	45:PJ:14:ASN:HA	2.14	0.63
45:PJ:217:LEU:HD11	45:PJ:220:PRO:HG3	1.80	0.63
44:PK:5:ILE:HB	44:PK:135:PHE:HD1	1.64	0.63
44:QA:185:TYR:OH	44:QA:403:ALA:O	2.10	0.63
45:QB:398:TYR:O	45:QB:403:MET:HB2	1.99	0.63
44:QC:137:VAL:HG12	44:QC:168:GLY:HA2	1.79	0.63
44:QE:55:GLU:OE1	44:QE:55:GLU:HA	1.99	0.63
44:QG:70:LEU:HD11	44:QG:149:LEU:HD23	1.80	0.63
44:QI:149:LEU:O	44:QI:153:LEU:HG	1.98	0.63
45:QJ:374:ILE:HD11	45:QJ:422:TYR:CZ	2.33	0.63
45:QL:375:GLN:HE21	45:QL:379:LYS:CG	2.11	0.63
44:QM:326:LYS:HD3	45:QN:212:PHE:CZ	2.34	0.63
45:QN:289:LEU:HD11	45:QN:363:MET:CG	2.28	0.63
45:RB:246:LEU:HD11	44:RC:224:TYR:HE2	1.64	0.63
44:RC:384:ILE:O	44:RC:387:VAL:HG22	1.97	0.63
45:RD:169:VAL:HG13	45:RD:169:VAL:O	1.97	0.63
45:RH:58:ARG:HD3	45:SH:280:GLN:O	1.98	0.63
45:RJ:273:LEU:O	45:RJ:292:GLN:NE2	2.25	0.63
45:RL:25:SER:OG	45:RL:51:TYR:OH	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:247:ASN:HD21	44:RM:74:VAL:HG13	1.64	0.63
44:RM:135:PHE:CE2	44:RM:164:LYS:HG2	2.33	0.63
44:RM:312:TYR:CE2	44:RM:341:ILE:HG23	2.28	0.63
45:RN:152:ILE:HD12	45:RN:164:MET:SD	2.39	0.63
44:SA:11:GLN:HB3	46:SA:501:GTP:O2A	1.99	0.63
45:SB:383:GLU:O	45:SB:386:THR:HG22	1.98	0.63
44:SE:213:CYS:O	44:SE:217:LEU:HB2	1.98	0.63
44:SE:231:ILE:O	44:SE:235:ILE:HD12	1.99	0.63
44:SE:276:ILE:CD1	44:SE:281:ALA:HB1	2.28	0.63
44:SG:35:GLN:NE2	44:SG:60:LYS:HB3	2.13	0.63
45:SH:4:ILE:CG2	45:SH:131:GLN:HB3	2.28	0.63
45:SJ:183:TYR:OH	45:SJ:388:MET:HB3	1.99	0.63
45:SJ:375:GLN:HB3	45:SJ:422:TYR:CE2	2.33	0.63
45:SL:4:ILE:HG22	45:SL:132:GLY:N	2.13	0.63
45:SL:185:ALA:O	45:SL:189:VAL:HG13	1.99	0.63
45:SN:185:ALA:O	45:SN:188:SER:OG	2.13	0.63
44:TA:223:THR:HG22	44:TA:226:ASN:OD1	1.99	0.63
44:TA:258:ASN:HD22	44:TA:352:LYS:HB2	1.64	0.63
45:TB:309:ARG:NH2	45:TB:342:VAL:HA	2.14	0.63
44:TC:239:THR:HA	44:TC:242:LEU:HD12	1.81	0.63
45:TD:97:ALA:HB1	45:TD:103:LYS:HB3	1.81	0.63
45:TD:312:THR:HG22	45:TD:370:ASN:HB3	1.80	0.63
45:TH:42:LEU:HA	45:TH:45:GLU:OE2	1.98	0.63
45:TH:81:PHE:HA	45:TH:84:LEU:HD13	1.81	0.63
45:TL:180:VAL:CG2	45:TL:183:TYR:HB2	2.29	0.63
44:TM:68:LEU:HD21	44:TM:118:CYS:SG	2.38	0.63
45:UB:163:ILE:HD13	45:UB:251:ARG:CG	2.28	0.63
45:UD:150:LEU:O	45:UD:150:LEU:HD23	1.98	0.63
44:UE:114:ILE:HG23	44:UE:117:LEU:HD11	1.81	0.63
44:UE:268:MET:HB2	44:UE:379:SER:O	1.99	0.63
45:UF:68:LEU:HD23	45:UF:97:ALA:HB2	1.80	0.63
44:UG:276:ILE:HG12	44:UG:281:ALA:CB	2.29	0.63
45:UH:167:PHE:CD2	45:UH:233:MET:HE2	2.33	0.63
45:UH:187:LEU:HD11	45:UH:408:PHE:CE1	2.32	0.63
45:UH:334:GLN:HB2	45:UH:349:ILE:HD11	1.79	0.63
44:UI:200:VAL:HA	44:UI:266:HIS:HB2	1.79	0.63
45:UJ:99:ASN:HA	45:UJ:142:GLY:CA	2.27	0.63
45:UL:376:GLU:HA	45:UL:379:LYS:HZ3	1.64	0.63
44:UM:72:PRO:HG3	44:UM:95:GLY:O	1.97	0.63
45:UN:21:TRP:CZ3	45:UN:50:TYR:HB3	2.34	0.63
44:VA:274:PRO:HB3	44:VA:291:ILE:CD1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:406:HIS:CD2	45:VB:261:PRO:HD3	2.34	0.63
44:VE:26:LEU:HD23	44:VE:364:PRO:HD3	1.80	0.63
44:VE:103:PHE:HB3	44:VE:408:TYR:HE2	1.64	0.63
45:VF:304:ASP:HB3	45:VF:307:HIS:CD2	2.33	0.63
44:VI:286:LEU:O	44:VI:373:ARG:NE	2.30	0.63
45:VJ:86:ARG:HD3	45:VJ:87:PRO:HD2	1.79	0.63
45:VJ:232:ALA:O	45:VJ:236:VAL:HG23	1.99	0.63
45:VJ:329:GLN:O	45:VJ:333:VAL:HG23	1.99	0.63
44:VK:11:GLN:N	46:VK:501:GTP:O1B	2.25	0.63
44:VK:174:SER:CB	44:VK:207:GLU:HB2	2.29	0.63
45:VL:3:GLU:CG	45:VL:127:CYS:HB2	2.28	0.63
45:VL:390:ARG:O	45:VL:392:LYS:NZ	2.32	0.63
44:WA:97:GLU:HG2	44:WA:105:ARG:HH22	1.64	0.63
45:WB:252:LYS:HG2	45:WB:350:LYS:HE2	1.79	0.63
44:WC:224:TYR:CE2	45:WD:246:LEU:HD11	2.34	0.63
45:WD:60:VAL:HG21	45:WD:86:ARG:CG	2.28	0.63
45:WD:271:ALA:HB2	45:WD:365:VAL:O	1.99	0.63
44:WE:11:GLN:OE1	45:WF:246:LEU:HA	1.98	0.63
44:WE:225:THR:HA	44:WE:228:ASN:OD1	1.98	0.63
44:WE:269:LEU:H	44:WE:269:LEU:HD23	1.63	0.63
44:WE:284:GLU:OE1	44:WE:286:LEU:HD22	1.99	0.63
44:WI:105:ARG:HG2	44:WI:411:GLU:HG3	1.80	0.63
45:WJ:73:MET:O	45:WJ:76:VAL:HG12	1.98	0.63
45:WJ:163:ILE:HD11	45:WJ:251:ARG:NE	2.10	0.63
45:WJ:404:ASP:OD1	45:WJ:407:GLU:HG3	1.99	0.63
44:WM:111:GLY:O	44:WM:115:VAL:N	2.32	0.63
44:WM:256:GLN:HA	44:WM:260:VAL:CG2	2.28	0.63
1:6H:174:MET:HG2	45:FB:320:ARG:CB	2.06	0.63
2:0A:73:ALA:O	44:AA:219:ILE:HD12	1.98	0.63
5:0D:41:TYR:HD1	44:DC:79:ARG:HE	1.44	0.63
12:0S:16:SER:HB3	45:WB:92:PHE:CZ	2.32	0.63
9:1H:296:ARG:HD2	44:HC:372:MET:HG3	1.81	0.63
20:1J:122:ARG:HD2	44:IE:279:GLU:HG2	1.80	0.63
27:1W:61:LYS:HG2	45:LH:279:GLN:HE22	1.62	0.63
32:2I:20:LEU:HD22	44:GG:308:ARG:HH22	1.64	0.63
32:2I:95:LYS:HE2	45:GF:336:LYS:CG	2.29	0.63
27:2W:189:ARG:CZ	44:KM:48:ALA:HB3	2.28	0.63
32:3I:243:LYS:CG	44:GI:299:ALA:HB1	2.28	0.63
37:5D:20:LEU:HD22	45:KN:419:VAL:CG2	2.28	0.63
37:5D:58:TYR:HB3	45:KN:183:TYR:CD1	2.32	0.63
11:5Q:174:GLU:O	11:5Q:182:LYS:HD3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:389:ASN:OD1	35:7R:390:GLY:N	2.32	0.63
44:AA:205:ASP:OD2	44:AA:304:LYS:N	2.22	0.63
45:AB:32:PRO:HG3	45:AB:81:PHE:CZ	2.33	0.63
45:AF:7:ILE:HD13	45:AF:64:ILE:HB	1.80	0.63
45:AF:362:LYS:HZ3	45:MF:55:THR:HB	1.64	0.63
45:AF:390:ARG:HG3	45:AF:391:ARG:HG2	1.81	0.63
44:AG:383:ALA:O	44:AG:386:GLU:HG2	1.98	0.63
45:AL:293:MET:HG2	45:AL:294:PHE:HD1	1.63	0.63
45:AN:54:ALA:HA	45:BN:283:ALA:CB	2.25	0.63
45:AN:398:TYR:HB3	45:AN:408:PHE:HZ	1.63	0.63
44:BG:238:LEU:HD21	44:BG:255:PHE:CE2	2.34	0.63
44:BG:363:VAL:CG2	44:BG:364:PRO:HD2	2.29	0.63
44:BM:86:LEU:HD23	44:BM:87:PHE:CE1	2.34	0.63
44:CA:174:SER:HB2	44:CA:177:VAL:O	1.99	0.63
45:CB:52:ASN:HB2	45:CB:60:VAL:HG13	1.78	0.63
44:CC:203:MET:HG3	44:CC:384:ILE:HD11	1.80	0.63
44:CC:325:PRO:O	44:CC:328:VAL:HG12	1.98	0.63
45:CD:19:LYS:HB3	45:CD:230:SER:OG	1.99	0.63
45:CF:58:ARG:HD3	45:DF:280:GLN:CG	2.25	0.63
45:CF:135:ILE:HG13	45:CF:152:ILE:HD12	1.80	0.63
45:CJ:8:GLN:NE2	45:CJ:14:ASN:HA	2.13	0.63
44:CK:6:SER:O	44:CK:66:VAL:HG12	1.98	0.63
45:CL:99:ASN:HA	45:CL:142:GLY:H	1.63	0.63
45:CL:260:PHE:CE1	44:CM:403:ALA:HA	2.34	0.63
45:CL:318:ARG:NE	45:CL:356:ILE:O	2.22	0.63
44:CM:205:ASP:OD1	44:CM:303:ALA:HA	1.99	0.63
45:CN:168:SER:O	45:CN:202:ILE:HB	1.99	0.63
44:DA:225:THR:O	44:DA:229:ARG:HG3	1.98	0.63
45:DD:32:PRO:HD2	45:DD:33:THR:H	1.64	0.63
45:DD:36:TYR:CE2	45:DD:44:LEU:HG	2.34	0.63
44:DG:217:LEU:HD13	44:DG:367:ASP:OD2	1.99	0.63
44:DG:247:ALA:O	45:DH:11:GLN:NE2	2.31	0.63
44:DG:348:PRO:HB2	45:DH:384:GLN:HE22	1.64	0.63
45:DN:175:VAL:CG2	45:DN:205:GLU:HB3	2.29	0.63
45:EB:253:LEU:O	45:EB:257:LEU:N	2.32	0.63
44:EC:5:ILE:HG23	44:EC:64:ARG:O	1.99	0.63
44:EC:75:ILE:O	44:EC:79:ARG:HG3	1.99	0.63
44:EE:174:SER:HB2	44:EE:177:VAL:O	1.99	0.63
44:EG:136:LEU:HD23	44:EG:167:LEU:HB2	1.80	0.63
44:EG:254:GLU:HG2	45:EH:98:GLY:CA	2.28	0.63
45:EH:113:ILE:HA	45:EH:116:VAL:HG12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:383:GLU:HA	45:EL:386:THR:HG22	1.80	0.63
45:EN:116:VAL:O	45:EN:120:VAL:HG23	1.99	0.63
45:FB:138:SER:CB	45:FB:169:VAL:HB	2.29	0.63
45:FB:239:CYS:HA	45:FB:354:CYS:SG	2.39	0.63
45:FB:318:ARG:HE	45:FB:358:PRO:CG	2.11	0.63
44:FE:210:TYR:CE1	44:FE:227:LEU:HD11	2.30	0.63
44:FE:317:MET:HE2	44:FE:319:TYR:CE1	2.34	0.63
45:FF:146:GLY:O	45:FF:149:THR:HG22	1.99	0.63
45:FF:269:GLY:HA2	45:FF:300:MET:CG	2.28	0.63
44:FG:54:SER:HB3	44:FG:64:ARG:NE	2.13	0.63
45:FH:42:LEU:HA	45:FH:45:GLU:HG3	1.80	0.63
44:FK:414:GLU:OE2	44:FK:417:GLU:N	2.32	0.63
45:FL:334:GLN:HA	45:FL:341:PHE:CE2	2.33	0.63
45:FN:269:GLY:O	45:FN:366:THR:HG23	1.99	0.63
44:GE:88:HIS:CE1	44:GE:90:GLU:HG2	2.34	0.63
44:GE:172:TYR:HB3	44:GE:173:PRO:CD	2.29	0.63
44:GE:275:ILE:O	44:GE:275:ILE:HG23	1.97	0.63
45:GJ:334:GLN:OE1	45:GJ:347:ASN:HA	1.99	0.63
44:GK:179:THR:O	45:GL:350:LYS:HA	1.99	0.63
44:GM:216:ASN:HB3	44:GM:276:ILE:CA	2.23	0.63
44:HA:88:HIS:ND1	44:HA:90:GLU:HG2	2.13	0.63
44:HA:313:MET:HB2	44:HA:346:TRP:CH2	2.34	0.63
45:HD:14:ASN:O	45:HD:18:ALA:N	2.24	0.63
44:HE:183:GLU:HG2	44:HE:184:PRO:HD3	1.79	0.63
44:HE:206:ASN:HA	44:HE:209:ILE:HD12	1.81	0.63
44:HI:2:ARG:HD3	44:HI:242:LEU:HD11	1.81	0.63
44:HI:89:PRO:HB3	44:II:280:LYS:HZ3	1.63	0.63
44:HI:271:SER:O	44:HI:377:MET:HG3	1.99	0.63
45:HJ:285:THR:CG2	45:HJ:287:PRO:HD2	2.23	0.63
45:HL:330:MET:HA	45:HL:330:MET:HE2	1.80	0.63
44:IC:215:ARG:HD2	44:IC:215:ARG:O	1.99	0.63
45:IF:304:ASP:OD1	45:IF:306:ARG:NH1	2.31	0.63
45:IH:86:ARG:HD2	44:JE:283:HIS:HB2	1.80	0.63
45:IJ:9:GLY:HA2	45:IJ:66:MET:O	1.99	0.63
45:IN:116:VAL:HA	45:IN:119:VAL:HG12	1.80	0.63
44:JA:263:PRO:HG2	44:JA:264:ARG:HH11	1.63	0.63
45:JF:187:LEU:HD11	45:JF:408:PHE:CZ	2.33	0.63
44:JG:326:LYS:HE3	45:JJ:220:PRO:CD	2.26	0.63
44:JK:421:ALA:HA	44:JK:424:ASP:OD1	1.98	0.63
44:JM:209:ILE:HG22	44:JM:227:LEU:HD22	1.80	0.63
45:JN:42:LEU:HD13	45:JN:243:PRO:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:272:TYR:CD2	44:KA:275:ILE:HD11	2.34	0.63
45:KB:20:PHE:CE1	45:KB:24:ILE:HD11	2.34	0.63
45:KB:31:ASP:HB2	45:KB:32:PRO:HD2	1.80	0.63
45:KD:28:HIS:CE1	45:KD:241:ARG:HD2	2.34	0.63
45:KF:12:CYS:O	45:KF:16:ILE:HG12	1.99	0.63
45:KF:293:MET:HE2	45:KF:367:PHE:CD1	2.32	0.63
44:KG:28:HIS:CE1	44:KG:243:ARG:HD2	2.34	0.63
45:KH:1:MET:O	45:KH:2:ARG:HG2	1.99	0.63
45:KH:292:GLN:HG2	45:KH:298:ASN:ND2	2.14	0.63
44:KI:155:GLU:HG3	44:KI:197:HIS:CD2	2.34	0.63
45:KJ:193:VAL:HG11	45:KJ:414:ASN:HD21	1.62	0.63
45:KJ:263:LEU:HD23	45:KJ:422:TYR:CE1	2.34	0.63
44:KK:229:ARG:NH1	44:KK:366:GLY:HA2	2.14	0.63
44:KK:265:ILE:HG21	44:KK:428:LEU:HD13	1.81	0.63
45:LB:81:PHE:O	45:LB:84:LEU:HD13	1.98	0.63
44:LI:209:ILE:HG12	44:LI:302:MET:SD	2.39	0.63
45:LN:378:PHE:O	45:LN:382:ALA:N	2.29	0.63
44:MC:11:GLN:NE2	45:MD:247:ASN:OD1	2.32	0.63
44:ME:224:TYR:HD1	44:ME:227:LEU:HD12	1.63	0.63
44:ME:298:PRO:HG3	44:ME:308:ARG:HE	1.63	0.63
45:MF:269:GLY:HA2	45:MF:300:MET:HE3	1.81	0.63
44:MI:13:GLY:HA2	44:MI:16:VAL:HG12	1.79	0.63
45:MJ:372:THR:HA	45:MJ:422:TYR:CE2	2.23	0.63
44:MK:207:GLU:OE2	44:MK:304:LYS:HD3	1.98	0.63
45:MN:317:PHE:CE1	45:MN:326:VAL:HG13	2.34	0.63
45:NB:151:LEU:O	45:NB:155:VAL:HG23	1.98	0.63
45:NB:183:TYR:HA	45:NB:385:PHE:CE1	2.33	0.63
45:NB:217:LEU:HD12	45:NB:217:LEU:O	1.98	0.63
45:NF:310:TYR:CD1	45:NF:371:SER:HB2	2.34	0.63
44:NG:254:GLU:OE2	45:NJ:99:ASN:ND2	2.32	0.63
44:NK:345:ASP:OD2	44:NK:439:THR:HG22	1.98	0.63
44:NM:7:ILE:HA	44:NM:66:VAL:CG1	2.28	0.63
44:OA:408:TYR:O	44:OA:413:MET:HG3	1.99	0.63
45:OB:166:THR:HG21	45:OB:192:LEU:HD11	1.80	0.63
44:OC:203:MET:CE	44:OC:269:LEU:HB3	2.29	0.63
44:OE:3:GLU:OE2	44:OE:129:CYS:HB3	1.99	0.63
44:OE:155:GLU:HG2	44:OE:197:HIS:NE2	2.13	0.63
44:OE:384:ILE:O	44:OE:387:VAL:HG22	1.99	0.63
45:OF:39:ASP:OD1	45:OF:40:SER:N	2.32	0.63
45:OF:397:TRP:O	45:OF:400:GLY:N	2.30	0.63
44:OI:288:VAL:HA	44:OI:291:ILE:CD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:115:VAL:HG22	44:OK:119:LEU:CD2	2.28	0.63
44:OK:118:CYS:O	44:OK:122:ILE:HG13	1.99	0.63
44:OM:174:SER:HB3	44:OM:207:GLU:OE1	1.99	0.63
44:OM:360:PRO:HD2	44:OM:371:VAL:O	1.99	0.63
45:ON:133:PHE:O	45:ON:164:MET:HA	1.99	0.63
45:ON:268:ILE:HG22	45:ON:368:VAL:HG22	1.80	0.63
45:PB:287:PRO:HA	45:PB:290:THR:HG22	1.81	0.63
44:PC:154:LEU:HD22	44:PC:166:LYS:NZ	2.13	0.63
44:PE:73:THR:HA	45:PF:46:ARG:HH21	1.64	0.63
45:PH:97:ALA:HB2	45:PH:143:THR:HB	1.81	0.63
45:PH:377:MET:O	45:PH:380:ARG:HG2	1.99	0.63
44:PM:100:ALA:HB1	45:PN:255:VAL:HG21	1.81	0.63
45:PN:207:LEU:HB3	45:PN:225:LEU:CD2	2.26	0.63
44:QA:208:ALA:HB2	44:QA:304:LYS:N	2.14	0.63
44:QA:319:TYR:CZ	44:QA:328:VAL:HG22	2.34	0.63
44:QC:47:ASP:HB2	44:QC:49:PHE:HD1	1.63	0.63
45:QD:238:CYS:HB2	45:QD:318:ARG:NE	2.13	0.63
44:QE:5:ILE:HG12	44:QE:64:ARG:CD	2.29	0.63
44:QE:17:GLY:HA2	44:QE:20:CYS:SG	2.39	0.63
44:QE:296:PHE:CE2	44:QE:335:ILE:HG21	2.34	0.63
45:QF:213:ARG:HH21	45:QF:297:LYS:HE2	1.64	0.63
44:QG:252:ILE:HD12	44:QG:255:PHE:CE2	2.33	0.63
44:QI:11:GLN:HA	44:QI:14:ILE:HD12	1.80	0.63
45:QJ:184:ASN:OD1	45:QJ:185:ALA:N	2.32	0.63
45:RB:3:GLU:CB	45:RB:49:VAL:HA	2.29	0.63
45:RB:64:ILE:HD13	45:RB:119:VAL:HG13	1.80	0.63
45:RF:248:SER:CB	45:RF:252:LYS:HD2	2.28	0.63
45:RJ:64:ILE:HG13	45:RJ:120:VAL:HG22	1.80	0.63
45:RJ:293:MET:HA	45:RJ:298:ASN:ND2	2.13	0.63
44:RK:192:HIS:ND1	44:RK:421:ALA:HA	2.14	0.63
44:RK:212:ILE:HD13	44:RK:215:ARG:HH22	1.64	0.63
45:RL:320:ARG:HG2	45:RL:355:ASP:HB3	1.80	0.63
44:RM:261:PRO:HG3	45:RN:394:PHE:CZ	2.33	0.63
44:SG:54:SER:HB3	44:SG:64:ARG:NH2	2.13	0.63
45:SH:148:GLY:O	45:SH:151:LEU:N	2.29	0.63
45:SJ:3:GLU:OE1	45:SJ:3:GLU:N	2.25	0.63
44:SK:405:VAL:HG13	44:SK:418:PHE:CE2	2.34	0.63
45:SN:70:PRO:HG3	45:SN:92:PHE:CD1	2.34	0.63
45:SN:113:ILE:CD1	45:SN:150:LEU:HD22	2.28	0.63
44:TC:276:ILE:HD11	44:TC:280:LYS:HG3	1.79	0.63
45:TD:286:VAL:HA	45:TD:289:LEU:CG	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:68:LEU:HD21	44:TE:118:CYS:SG	2.39	0.63
44:TE:324:VAL:CG1	44:TE:325:PRO:HD2	2.29	0.63
45:TH:65:LEU:HD11	45:TH:85:PHE:CE2	2.34	0.63
45:TH:73:MET:HE1	45:TH:92:PHE:HB3	1.81	0.63
45:TJ:240:LEU:HD12	45:TJ:249:ASP:CB	2.28	0.63
45:TL:215:LEU:HA	45:TL:275:SER:HA	1.79	0.63
44:TM:174:SER:OG	44:TM:207:GLU:HB2	1.99	0.63
45:TN:61:PRO:CG	45:TN:84:LEU:HB3	2.28	0.63
44:UE:104:ALA:O	44:UE:108:TYR:HB2	1.99	0.63
44:UE:298:PRO:HA	44:UE:301:MET:CE	2.25	0.63
45:UH:4:ILE:HD12	45:UH:133:PHE:HA	1.81	0.63
44:UI:135:PHE:O	44:UI:136:LEU:HD23	1.99	0.63
44:UI:237:SER:HA	44:UI:320:ARG:HH11	1.63	0.63
45:UJ:114:ASP:OD1	45:UJ:115:SER:N	2.32	0.63
45:UJ:324:LYS:HD2	44:UK:210:TYR:CD1	2.34	0.63
45:UJ:331:LEU:HG	45:UJ:335:ASN:HD21	1.63	0.63
44:UM:89:PRO:HG3	44:VK:280:LYS:CD	2.28	0.63
44:UM:385:ALA:HB2	44:UM:432:TYR:HD2	1.62	0.63
45:UN:274:THR:HB	45:UN:282:ARG:NH1	2.14	0.63
44:VA:237:SER:OG	44:VA:320:ARG:NH1	2.28	0.63
45:VB:215:LEU:O	45:VB:215:LEU:HD23	1.98	0.63
44:VC:1:MET:HE3	45:VF:94:GLN:HG3	1.80	0.63
44:VC:233:GLN:O	44:VC:236:SER:OG	2.11	0.63
45:VD:66:MET:HE1	45:VD:147:MET:HB3	1.80	0.63
45:VD:73:MET:O	45:VD:76:VAL:HG12	1.99	0.63
45:VD:398:TYR:O	45:VD:403:MET:HB2	1.99	0.63
44:VE:19:ALA:HB2	44:VE:228:ASN:HB3	1.81	0.63
44:VE:326:LYS:CB	45:VH:220:PRO:HD2	2.29	0.63
44:VG:105:ARG:O	44:VG:110:ILE:HG12	1.98	0.63
45:VH:8:GLN:OE1	45:VH:8:GLN:N	2.32	0.63
45:VH:113:ILE:HA	45:VH:116:VAL:HG12	1.79	0.63
44:VM:26:LEU:CD2	44:VM:363:VAL:HA	2.29	0.63
44:VM:75:ILE:HD11	44:VM:92:LEU:CG	2.28	0.63
44:VM:161:TYR:HB3	44:VM:164:LYS:HG3	1.80	0.63
44:WA:9:VAL:HG21	44:WA:149:LEU:HG	1.80	0.63
44:WA:70:LEU:HD13	44:WA:110:ILE:CD1	2.28	0.63
44:WA:311:LYS:HE2	44:WA:342:GLN:NE2	2.13	0.63
44:WC:332:ILE:HD12	44:WC:351:PHE:CD2	2.34	0.63
45:WF:3:GLU:HB2	45:WF:49:VAL:O	1.98	0.63
45:WH:42:LEU:HG	45:WH:45:GLU:OE2	1.99	0.63
45:WH:178:THR:HG22	45:WH:180:VAL:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:113:ILE:CD1	45:WJ:150:LEU:HD22	2.27	0.63
44:WK:88:HIS:HE1	44:WK:90:GLU:HG2	1.63	0.63
44:WM:389:SER:HA	44:WM:429:GLU:OE2	1.98	0.63
5:0D:190:THR:HG23	44:FA:219:ILE:CG1	2.29	0.63
8:0G:27:PHE:CZ	44:IK:89:PRO:HG3	2.34	0.63
8:0G:168:PHE:CD2	44:KM:1:MET:HG2	2.34	0.63
20:1J:196:GLN:HA	44:IG:370:LYS:NZ	2.12	0.63
16:1X:18:ILE:HD11	45:MH:81:PHE:HE1	1.61	0.63
24:2O:149:TYR:CE2	44:VK:281:ALA:HB3	2.34	0.63
24:2O:318:LEU:CD2	44:VE:26:LEU:HD21	2.25	0.63
26:2R:153:LYS:HZ1	44:AG:245:ASP:HB2	1.63	0.63
31:3H:193:LEU:HD12	45:AH:362:LYS:HA	1.80	0.63
22:3L:172:ASP:HB2	44:CA:279:GLU:OE2	1.98	0.63
26:3R:447:GLN:NE2	44:EK:46:ASP:HB2	2.13	0.63
34:4F:23:LYS:HA	44:HI:225:THR:HG21	1.80	0.63
35:4R:107:PRO:CB	45:BH:360:GLY:HA3	2.27	0.63
37:5B:168:TRP:CH2	44:KG:397:LEU:HD11	2.34	0.63
37:5D:34:PHE:CD2	44:KK:431:ASP:HA	2.19	0.63
37:5D:40:VAL:CA	44:KK:261:PRO:HD2	2.29	0.63
38:5G:154:TYR:HA	38:5H:11:TRP:CE3	2.34	0.63
38:5G:198:PHE:CA	44:LK:393:HIS:HE1	2.11	0.63
39:5K:95:LEU:HG	39:5K:98:LEU:HD12	1.81	0.63
35:5R:78:ILE:HG21	35:5R:82:GLN:NE2	2.14	0.63
35:5R:446:PHE:CE2	35:5R:487:GLU:HA	2.34	0.63
35:7R:30:GLN:HB2	45:LB:74:ASP:OD1	1.99	0.63
35:7R:219:LYS:NZ	45:BD:75:SER:HB2	2.14	0.63
43:8P:120:UNK:O	43:8P:124:UNK:N	2.31	0.63
44:AA:182:VAL:HG23	44:AA:185:TYR:HD2	1.62	0.63
45:AB:8:GLN:HE21	45:AB:14:ASN:HA	1.63	0.63
44:AG:88:HIS:ND1	44:AG:89:PRO:HD2	2.12	0.63
44:AG:99:ALA:CB	44:AG:145:THR:HB	2.29	0.63
44:AG:257:THR:O	44:AG:258:ASN:ND2	2.31	0.63
44:AG:372:MET:CB	44:AG:373:ARG:HD3	2.29	0.63
45:AH:281:TYR:CE2	45:MH:87:PRO:HD3	2.34	0.63
44:AI:200:VAL:HG13	44:AI:268:MET:CE	2.28	0.63
44:AI:211:ASP:OD1	44:AI:215:ARG:NE	2.19	0.63
44:AM:118:CYS:O	44:AM:122:ILE:HG12	1.99	0.63
45:AN:3:GLU:OE2	45:AN:127:CYS:HB2	1.98	0.63
44:BA:405:VAL:O	44:BA:409:VAL:HG23	1.99	0.63
45:BB:100:ASN:ND2	45:BB:401:GLU:OE2	2.31	0.63
44:BG:121:ARG:O	44:BG:125:LEU:HD23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BH:69:GLU:O	45:BH:73:MET:HE1	1.99	0.63
44:BI:254:GLU:HA	44:BI:257:THR:HG22	1.80	0.63
44:BI:284:GLU:HG3	44:BI:286:LEU:CD2	2.28	0.63
45:BJ:148:GLY:O	45:BJ:152:ILE:HG12	1.98	0.63
44:BK:106:GLY:O	44:BK:149:LEU:HD22	1.99	0.63
45:BL:304:ASP:OD1	45:BL:306:ARG:HG2	1.99	0.63
44:BM:2:ARG:HD2	44:BM:242:LEU:O	1.99	0.63
44:BM:3:GLU:HG3	44:BM:129:CYS:HB3	1.81	0.63
44:BM:188:ILE:CD1	44:BM:395:PHE:HB2	2.28	0.63
45:BN:403:MET:HE3	45:BN:404:ASP:H	1.62	0.63
45:CF:4:ILE:HD11	45:CF:50:TYR:OH	1.98	0.63
45:CH:174:LYS:HD3	45:CH:175:VAL:HG13	1.81	0.63
45:CL:2:ARG:HB2	45:CL:131:GLN:OE1	1.99	0.63
45:CL:133:PHE:HB2	45:CL:164:MET:CE	2.28	0.63
45:CL:163:ILE:HG21	45:CL:251:ARG:HD3	1.80	0.63
44:CM:137:VAL:N	44:CM:167:LEU:O	2.32	0.63
44:DA:251:ASP:O	44:DA:254:GLU:N	2.29	0.63
44:DC:2:ARG:HD2	44:DC:242:LEU:HB3	1.81	0.63
45:DD:309:ARG:NH2	45:DD:426:GLN:O	2.32	0.63
44:DE:20:CYS:HA	44:DE:232:ALA:HB1	1.81	0.63
44:DE:289:ALA:O	44:DE:292:THR:HG22	1.99	0.63
45:DF:187:LEU:HD11	45:DF:408:PHE:CZ	2.33	0.63
45:DF:244:GLY:HA2	45:DF:355:ASP:OD2	1.99	0.63
45:DH:319:GLY:N	45:DH:354:CYS:O	2.30	0.63
44:DI:89:PRO:HD3	44:EI:283:HIS:ND1	2.14	0.63
44:DI:347:CYS:CA	45:DJ:388:MET:HE1	2.13	0.63
44:DK:335:ILE:HA	44:DK:338:LYS:HE2	1.80	0.63
45:DL:165:GLU:OE2	45:DL:250:LEU:HD23	1.99	0.63
44:EA:320:ARG:HA	44:EA:356:ASN:HB3	1.81	0.63
45:EB:287:PRO:O	45:EB:290:THR:HG22	1.99	0.63
45:ED:396:HIS:CA	45:ED:399:THR:HG22	2.28	0.63
44:EE:53:PHE:CD2	44:EE:63:PRO:HA	2.34	0.63
45:EF:99:ASN:HA	45:EF:142:GLY:HA3	1.81	0.63
45:EF:242:PHE:CD1	45:EF:356:ILE:HG13	2.34	0.63
45:EH:139:LEU:HA	45:EH:145:SER:HB3	1.80	0.63
45:EH:173:PRO:CG	45:EH:380:ARG:HD3	2.29	0.63
45:EH:178:THR:HG22	45:EH:180:VAL:H	1.64	0.63
45:EH:256:ASN:ND2	44:EI:181:VAL:HG12	2.13	0.63
45:EL:173:PRO:HG3	45:EL:380:ARG:HD3	1.80	0.63
44:EM:272:TYR:CD2	44:EM:275:ILE:HD11	2.34	0.63
45:EN:228:LEU:HA	45:EN:231:ALA:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:171:ILE:HG12	44:FA:204:LEU:HB3	1.79	0.63
44:FA:205:ASP:OD2	44:FA:304:LYS:N	2.32	0.63
45:FB:287:PRO:HA	45:FB:290:THR:HG22	1.79	0.63
44:FC:10:GLY:O	44:FC:14:ILE:HG13	1.98	0.63
44:FE:34:GLY:O	44:FE:60:LYS:HA	1.98	0.63
44:FG:68:LEU:HD22	44:FG:118:CYS:SG	2.39	0.63
44:FG:109:THR:HG22	44:FG:110:ILE:HG23	1.80	0.63
44:FG:115:VAL:HG21	44:FG:152:LEU:HG	1.80	0.63
45:FH:309:ARG:CZ	45:FH:342:VAL:HA	2.28	0.63
44:FI:271:SER:HA	44:FI:302:MET:SD	2.39	0.63
45:FJ:68:LEU:HB3	45:FJ:96:GLY:HA2	1.80	0.63
45:FL:34:GLY:O	45:FL:58:ARG:HA	1.99	0.63
44:FM:109:THR:HG22	44:FM:110:ILE:HG12	1.80	0.63
45:FN:345:ILE:O	45:FN:345:ILE:HG23	1.99	0.63
44:GA:209:ILE:HG22	44:GA:227:LEU:HD22	1.79	0.63
45:GB:113:ILE:HD11	45:GB:151:LEU:CB	2.29	0.63
45:GH:322:SER:N	45:GH:325:GLU:H	1.97	0.63
44:GI:319:TYR:CE2	44:GI:328:VAL:HG12	2.34	0.63
44:GK:28:HIS:NE2	44:GK:48:ALA:O	2.31	0.63
44:GK:319:TYR:N	44:GK:375:VAL:HG23	2.13	0.63
44:GK:348:PRO:CG	45:GN:387:ALA:HB1	2.28	0.63
44:GM:280:LYS:HE2	44:GM:283:HIS:CE1	2.33	0.63
44:GM:407:TRP:HZ3	45:GN:255:VAL:HA	1.64	0.63
44:HA:222:PRO:HG2	45:HB:324:LYS:HD3	1.81	0.63
45:HB:116:VAL:CA	45:HB:119:VAL:HG12	2.27	0.63
45:HB:139:LEU:HD13	45:HB:168:SER:HB3	1.80	0.63
44:HE:221:ARG:NH1	45:HF:322:SER:OG	2.32	0.63
45:HJ:3:GLU:HB3	45:HJ:49:VAL:HA	1.80	0.63
44:HK:69:ASP:OD2	44:HK:74:VAL:HG11	1.99	0.63
45:HL:61:PRO:HG2	45:HL:84:LEU:HB3	1.81	0.63
44:HM:202:VAL:HG22	44:HM:268:MET:SD	2.39	0.63
45:HN:268:ILE:H	45:HN:299:MET:HE1	1.64	0.63
44:IA:210:TYR:CZ	44:IA:227:LEU:HD21	2.34	0.63
44:IC:319:TYR:CD1	44:IC:353:VAL:HG23	2.34	0.63
45:IJ:2:ARG:HG2	45:IJ:2:ARG:O	1.99	0.63
45:IJ:345:ILE:O	45:IJ:345:ILE:HG23	1.99	0.63
44:IK:89:PRO:HG2	45:JL:277:GLY:O	1.98	0.63
44:IM:270:SER:HB2	44:IM:378:ILE:HD13	1.81	0.63
45:JB:193:VAL:HA	45:JB:264:HIS:NE2	2.14	0.63
44:JC:33:ASP:OD1	44:JC:34:GLY:N	2.32	0.63
44:JC:349:THR:O	45:JF:179:VAL:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:139:LEU:HD22	45:JF:188:SER:HB3	1.81	0.63
45:JF:314:SER:HB2	45:JF:350:LYS:HE3	1.80	0.63
45:JF:406:MET:HG2	45:NF:307:HIS:CE1	2.34	0.63
44:JK:77:GLU:OE2	44:JK:78:VAL:HG23	1.99	0.63
45:JN:245:GLN:HB2	45:JN:353:ILE:HB	1.80	0.63
44:KA:15:GLN:NE2	46:KA:501:GTP:O6	2.32	0.63
44:KA:191:THR:HG21	44:KA:425:LEU:HD11	1.80	0.63
45:KB:44:LEU:HA	45:KB:47:ILE:HB	1.80	0.63
45:KB:314:SER:HA	45:KB:350:LYS:HG3	1.78	0.63
45:KD:60:VAL:HG22	45:KD:86:ARG:NH1	2.13	0.63
45:KD:285:THR:HB	45:KD:287:PRO:HD2	1.80	0.63
44:KE:212:ILE:HD13	44:KE:302:MET:CE	2.29	0.63
45:KF:100:ASN:HD22	45:KF:103:LYS:HZ2	1.46	0.63
45:KJ:178:THR:HG22	45:KJ:180:VAL:HG12	1.81	0.63
45:KJ:211:CYS:SG	45:KJ:215:LEU:HD12	2.38	0.63
45:KJ:398:TYR:O	45:KJ:403:MET:HB3	1.98	0.63
44:KM:195:LEU:HD12	44:KM:267:PHE:CE2	2.34	0.63
44:KM:271:SER:HB2	44:KM:301:MET:SD	2.39	0.63
45:KN:19:LYS:NZ	45:KN:227:HIS:HB2	2.14	0.63
45:KN:172:SER:HB2	45:KN:174:LYS:HZ3	1.63	0.63
44:LC:137:VAL:CG1	44:LC:168:GLY:HA2	2.29	0.63
44:LE:123:ARG:HH11	44:LE:123:ARG:HG2	1.63	0.63
44:LE:178:SER:OG	45:LF:347:ASN:HB3	1.99	0.63
45:LF:143:THR:HG22	48:LF:501:GDP:O2B	1.98	0.63
45:LF:287:PRO:HD3	45:LF:325:GLU:OE2	1.99	0.63
45:LH:317:PHE:CD1	45:LH:365:VAL:HG23	2.34	0.63
45:LH:317:PHE:HD2	45:LH:321:MET:HE1	1.64	0.63
44:LM:141:VAL:HG21	44:LM:172:TYR:CE1	2.34	0.63
44:MA:288:VAL:HG23	44:MA:291:ILE:HD11	1.80	0.63
45:MD:267:MET:HE1	45:MD:299:MET:HB3	1.81	0.63
45:MF:283:ALA:O	45:MF:288:GLU:HG3	1.99	0.63
44:MI:68:LEU:HD21	44:MI:118:CYS:CB	2.29	0.63
44:MI:242:LEU:HD21	44:MI:251:ASP:HA	1.81	0.63
44:MK:100:ALA:O	45:ML:255:VAL:HG21	1.99	0.63
44:MM:102:ASN:CG	44:MM:105:ARG:HG3	2.19	0.63
45:MN:151:LEU:O	45:MN:155:VAL:N	2.29	0.63
45:NJ:21:TRP:CZ3	45:NJ:61:PRO:HB3	2.33	0.63
44:NK:47:ASP:OD1	44:NK:50:ASN:HB2	1.99	0.63
44:NK:203:MET:HB2	44:NK:269:LEU:HD13	1.81	0.63
45:NL:87:PRO:HA	45:NL:90:PHE:CD2	2.34	0.63
45:NL:360:GLY:C	45:NL:361:LEU:HD12	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:210:TYR:CE1	44:NM:227:LEU:HD11	2.34	0.63
44:NM:224:TYR:HE2	45:NN:246:LEU:HD11	1.64	0.63
44:NM:262:TYR:HB2	44:NM:265:ILE:HD12	1.81	0.63
45:NN:296:ALA:C	45:NN:297:LYS:HG2	2.19	0.63
44:OA:20:CYS:HA	44:OA:232:ALA:HB1	1.79	0.63
44:OA:133:GLN:CB	44:OA:252:ILE:HD11	2.29	0.63
45:OB:28:HIS:HA	45:OB:43:GLN:CD	2.19	0.63
45:OB:54:ALA:HA	45:PB:283:ALA:HB2	1.80	0.63
44:OC:21:TRP:HZ2	44:OC:65:ALA:HB2	1.62	0.63
44:OE:232:ALA:O	44:OE:235:ILE:HG22	1.97	0.63
44:OE:329:ASN:HB3	45:OH:175:VAL:CG1	2.28	0.63
45:OF:274:THR:CG2	45:OF:279:GLN:HG2	2.29	0.63
44:OG:6:SER:OG	44:OG:64:ARG:O	2.12	0.63
44:OG:88:HIS:NE2	44:OG:90:GLU:HB3	2.14	0.63
44:OG:319:TYR:HB2	44:OG:355:ILE:HD13	1.79	0.63
45:OH:100:ASN:HD21	45:OH:102:ALA:HB3	1.63	0.63
45:OH:173:PRO:CG	45:OH:380:ARG:HD2	2.29	0.63
44:OI:24:PHE:HZ	44:OI:235:ILE:HG22	1.64	0.63
45:OJ:183:TYR:OH	45:OJ:388:MET:O	2.15	0.63
45:OL:99:ASN:CA	45:OL:142:GLY:HA3	2.25	0.63
45:OL:334:GLN:HE22	45:OL:347:ASN:H	1.46	0.63
44:OM:335:ILE:HG23	44:OM:341:ILE:CD1	2.28	0.63
45:ON:244:GLY:HA2	45:ON:355:ASP:OD2	1.99	0.63
44:PA:55:GLU:HG3	44:PA:57:GLY:H	1.64	0.63
44:PC:88:HIS:ND1	44:PC:90:GLU:HG2	2.14	0.63
44:PC:141:VAL:HG23	44:PC:190:SER:OG	1.99	0.63
45:PF:139:LEU:HD23	45:PF:188:SER:CB	2.28	0.63
45:PF:271:ALA:HB1	45:PF:272:PRO:HA	1.80	0.63
44:PG:209:ILE:HG12	44:PG:302:MET:SD	2.39	0.63
44:PG:332:ILE:O	44:PG:335:ILE:HG22	1.98	0.63
45:PH:325:GLU:HA	45:PH:328:GLU:HG2	1.80	0.63
45:PJ:31:ASP:OD2	45:PJ:37:HIS:ND1	2.32	0.63
45:PJ:49:VAL:HG11	45:PJ:241:ARG:CG	2.29	0.63
44:PK:5:ILE:HB	44:PK:135:PHE:CD1	2.33	0.63
44:PK:210:TYR:CE2	45:PL:324:LYS:HG3	2.33	0.63
44:PK:276:ILE:HD12	44:PK:281:ALA:HB2	1.78	0.63
45:PL:248:SER:CB	45:PL:252:LYS:HD2	2.28	0.63
44:PM:222:PRO:HG2	45:PN:324:LYS:HD3	1.80	0.63
44:QA:312:TYR:HB2	44:QA:343:PHE:HA	1.79	0.63
45:QB:211:CYS:HA	45:QB:215:LEU:HB2	1.81	0.63
45:QB:231:ALA:HB1	45:QB:270:PHE:CZ	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:426:ALA:O	44:QC:430:LYS:N	2.25	0.63
45:QF:104:GLY:O	45:QF:109:GLY:HA3	1.99	0.63
44:QG:133:GLN:C	44:QG:164:LYS:HZ1	2.01	0.63
44:QG:242:LEU:HD11	44:QG:252:ILE:HB	1.81	0.63
45:QJ:261:PRO:HG2	45:QJ:262:ARG:NH1	2.14	0.63
44:QK:172:TYR:HB3	44:QK:173:PRO:HD2	1.78	0.63
44:QM:166:LYS:C	44:QM:167:LEU:HD12	2.19	0.63
45:QN:67:ASP:O	45:QN:92:PHE:HA	1.99	0.63
45:RB:211:CYS:O	45:RB:215:LEU:HB2	1.98	0.63
44:RC:25:CYS:HA	44:RC:30:ILE:CD1	2.28	0.63
44:RC:296:PHE:HD2	44:RC:335:ILE:HD12	1.64	0.63
45:RD:15:GLN:O	45:RD:18:ALA:N	2.30	0.63
45:RD:261:PRO:HD3	44:RE:406:HIS:CE1	2.34	0.63
44:RE:140:SER:HA	44:RE:171:ILE:CG1	2.28	0.63
44:RE:191:THR:HA	44:RE:194:LEU:CG	2.28	0.63
44:RE:358:GLN:HA	44:RE:358:GLN:OE1	1.98	0.63
45:RH:69:GLU:CD	45:RH:71:GLY:H	2.02	0.63
44:RK:269:LEU:H	44:RK:269:LEU:HD23	1.64	0.63
45:RL:404:ASP:OD2	45:RL:406:MET:HB2	1.99	0.63
44:RM:328:VAL:O	44:RM:332:ILE:HG12	1.99	0.63
44:SA:89:PRO:HG3	44:TA:280:LYS:HD2	1.81	0.63
44:SC:24:PHE:HE1	44:SC:236:SER:HB2	1.64	0.63
44:SC:70:LEU:HD13	44:SC:110:ILE:CD1	2.29	0.63
44:SC:273:ALA:HB1	44:SC:274:PRO:HA	1.81	0.63
44:SC:311:LYS:CD	44:SC:342:GLN:HG3	2.29	0.63
45:SD:1:MET:CE	44:SE:96:LYS:HB3	2.28	0.63
44:SE:238:LEU:HD21	44:SE:255:PHE:CE2	2.34	0.63
44:SG:23:LEU:HD11	44:SG:361:THR:HG23	1.80	0.63
45:SH:73:MET:HA	45:SH:76:VAL:CG2	2.28	0.63
44:SI:123:ARG:NH2	44:SI:161:TYR:OH	2.32	0.63
45:SJ:97:ALA:HA	45:SJ:103:LYS:CD	2.29	0.63
44:SK:183:GLU:HG2	44:SK:184:PRO:HD3	1.81	0.63
44:SM:75:ILE:O	44:SM:78:VAL:N	2.26	0.63
45:TB:7:ILE:HB	45:TB:135:ILE:CD1	2.28	0.63
44:TE:9:VAL:CG1	44:TE:139:ASN:HB3	2.29	0.63
45:TF:310:TYR:HB2	45:TF:341:PHE:CE2	2.34	0.63
45:TF:363:MET:HE3	45:TF:363:MET:HA	1.81	0.63
44:TG:257:THR:HG22	45:TH:397:TRP:CH2	2.33	0.63
45:TH:54:ALA:HB1	45:UH:282:ARG:O	1.99	0.63
45:TH:86:ARG:NH1	45:TH:89:ASN:OD1	2.31	0.63
45:TJ:72:THR:O	45:TJ:76:VAL:N	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:172:SER:OG	45:TJ:175:VAL:HG22	1.99	0.63
45:TL:3:GLU:CG	45:TL:127:CYS:HB2	2.29	0.63
45:TL:267:MET:HE1	45:TL:371:SER:HB3	1.79	0.63
45:TN:143:THR:O	45:TN:147:MET:N	2.30	0.63
44:UA:248:LEU:CD2	44:UA:353:VAL:HG23	2.29	0.63
44:UA:270:SER:HB3	44:UA:378:ILE:HG23	1.80	0.63
45:UB:325:GLU:H	44:UC:221:ARG:HH11	1.47	0.63
44:UC:271:SER:HB2	44:UC:377:MET:CG	2.29	0.63
45:UF:318:ARG:CB	45:UF:358:PRO:HD3	2.28	0.63
45:UF:331:LEU:HD22	44:UG:176:GLN:HG3	1.79	0.63
44:UG:254:GLU:CG	45:UH:98:GLY:HA2	2.20	0.63
45:UH:262:ARG:HG3	45:UH:263:LEU:CD1	2.26	0.63
44:UI:362:VAL:CG2	44:UI:369:ALA:HA	2.28	0.63
45:UJ:4:ILE:HG22	45:UJ:131:GLN:HB3	1.81	0.63
45:UJ:313:ALA:CB	45:UJ:349:ILE:HG12	2.26	0.63
44:UK:165:SER:O	44:UK:166:LYS:HE2	1.97	0.63
45:UL:149:THR:CG2	45:UL:150:LEU:HD12	2.29	0.63
44:UM:242:LEU:HD11	44:UM:252:ILE:HG13	1.80	0.63
45:UN:178:THR:HB	45:UN:181:GLU:CG	2.29	0.63
45:VB:27:GLU:OE2	45:VB:241:ARG:NH1	2.31	0.63
45:VD:308:GLY:HA3	45:VD:372:THR:OG1	1.99	0.63
45:VF:86:ARG:HH11	45:WF:281:TYR:HD1	1.47	0.63
45:VH:334:GLN:HA	45:VH:341:PHE:HE2	1.64	0.63
45:VL:185:ALA:O	45:VL:188:SER:OG	2.13	0.63
45:VL:216:LYS:HB2	45:VL:275:SER:CB	2.28	0.63
45:VN:237:THR:OG1	45:VN:240:LEU:HB3	1.99	0.63
44:WA:201:ALA:N	44:WA:266:HIS:O	2.32	0.63
44:WA:215:ARG:NH2	44:WA:300:ASN:HA	2.14	0.63
45:WD:2:ARG:HB2	45:WD:131:GLN:OE1	1.99	0.63
44:WE:11:GLN:NE2	45:WF:246:LEU:HA	2.14	0.63
44:WE:19:ALA:HA	44:WE:22:GLU:OE1	1.98	0.63
45:WH:103:LYS:HA	45:WH:401:GLU:OE1	1.98	0.63
45:WH:121:ARG:NH1	45:WH:158:GLU:OE2	2.32	0.63
44:WI:13:GLY:HA2	44:WI:16:VAL:HG12	1.80	0.63
45:WL:16:ILE:HD13	45:WL:226:ASN:OD1	1.99	0.63
45:WN:313:ALA:O	45:WN:350:LYS:N	2.32	0.63
45:WN:399:THR:HA	45:WN:403:MET:O	1.99	0.63
3:OB:240:TRP:CZ3	45:JL:228:LEU:HD21	2.34	0.62
10:ON:10:TYR:HA	45:IN:53:GLU:OE1	1.99	0.62
13:OT:152:PRO:CG	45:MB:406:MET:HE3	2.29	0.62
4:1C:75:LEU:HD11	45:EL:362:LYS:HG2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1D:82:TYR:HA	45:EF:356:ILE:HD12	1.80	0.62
20:1J:198:ARG:HA	44:IG:370:LYS:CD	2.28	0.62
26:2R:391:SER:O	45:EH:276:ARG:HD3	1.98	0.62
16:2X:81:ARG:NH1	45:MJ:276:ARG:HH11	1.97	0.62
22:3L:45:ARG:NH2	45:BB:362:LYS:CB	2.51	0.62
37:5D:54:ARG:CZ	44:KK:439:THR:HG22	2.28	0.62
38:5G:108:LYS:HD2	38:5G:108:LYS:O	1.99	0.62
38:5H:123:ARG:HH11	44:OM:370:LYS:CE	2.10	0.62
39:5I:32:LYS:O	39:5I:35:ILE:HB	1.99	0.62
35:5R:445:SER:HB2	35:5R:454:MET:HB3	1.80	0.62
11:6Q:83:LEU:O	11:6Q:85:LYS:HG2	1.97	0.62
35:6R:294:ASN:OD1	45:DN:219:THR:CB	2.47	0.62
44:AA:137:VAL:HG12	44:AA:167:LEU:O	1.99	0.62
45:AB:223:GLY:O	45:AB:227:HIS:N	2.26	0.62
44:AC:264:ARG:HG2	44:AC:264:ARG:NH1	2.14	0.62
45:AF:45:GLU:O	45:AF:46:ARG:HD3	1.97	0.62
44:AK:169:PHE:CD1	44:AK:235:ILE:HD12	2.34	0.62
45:AN:313:ALA:CB	45:AN:349:ILE:HG12	2.26	0.62
44:BA:288:VAL:HA	44:BA:373:ARG:HH21	1.64	0.62
45:BD:204:ASN:OD1	48:BD:502:GDP:O2'	2.17	0.62
44:BG:217:LEU:HD11	44:BG:367:ASP:HB3	1.80	0.62
45:BJ:247:ASN:O	45:BJ:252:LYS:NZ	2.30	0.62
44:BK:222:PRO:CD	45:BL:324:LYS:HD3	2.29	0.62
45:BL:174:LYS:CE	45:BL:205:GLU:HG3	2.28	0.62
44:BM:3:GLU:OE2	44:BM:129:CYS:HB3	1.99	0.62
44:BM:288:VAL:O	44:BM:292:THR:HG23	1.99	0.62
45:CB:259:PRO:HB3	44:CC:404:PHE:CZ	2.34	0.62
44:CC:91:GLN:HG3	44:CC:92:LEU:HD12	1.80	0.62
44:CE:210:TYR:CE2	44:CE:227:LEU:HD11	2.35	0.62
44:CE:426:ALA:HA	44:CE:429:GLU:CD	2.19	0.62
45:CF:66:MET:SD	45:CF:116:VAL:HG21	2.38	0.62
44:CG:265:ILE:O	44:CG:265:ILE:HG23	1.99	0.62
44:CG:269:LEU:HD12	44:CG:303:ALA:HB3	1.80	0.62
44:CI:22:GLU:HG3	44:CI:83:TYR:OH	1.99	0.62
44:CK:139:ASN:OD1	44:CK:170:THR:HG22	1.99	0.62
45:CL:405:GLU:HA	45:CL:408:PHE:HD2	1.64	0.62
44:CM:223:THR:HG22	44:CM:226:ASN:OD1	1.99	0.62
45:CN:312:THR:O	45:CN:370:ASN:N	2.31	0.62
44:DA:296:PHE:HE2	44:DA:335:ILE:HG21	1.64	0.62
45:DD:166:THR:O	45:DD:199:CYS:HA	1.99	0.62
45:DD:325:GLU:OE1	44:DE:221:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:19:LYS:HB3	45:DF:230:SER:OG	1.99	0.62
45:DF:53:GLU:HA	45:DF:53:GLU:OE1	1.99	0.62
45:DF:69:GLU:OE1	45:DF:71:GLY:N	2.30	0.62
45:DF:240:LEU:O	45:DF:240:LEU:HD23	1.99	0.62
45:DF:262:ARG:C	45:DF:263:LEU:HD12	2.19	0.62
44:DG:71:GLU:OE1	44:DG:73:THR:N	2.26	0.62
44:DG:88:HIS:HB3	44:DG:91:GLN:CG	2.29	0.62
44:DG:224:TYR:O	44:DG:228:ASN:ND2	2.32	0.62
45:DH:405:GLU:HA	45:DH:408:PHE:HD2	1.64	0.62
44:DI:54:SER:HB3	44:DI:64:ARG:HH12	1.62	0.62
45:DJ:20:PHE:O	45:DJ:24:ILE:HD12	1.98	0.62
44:DM:31:GLN:HE21	44:DM:35:GLN:H	1.44	0.62
44:DM:89:PRO:HG3	44:EM:280:LYS:HE2	1.81	0.62
45:EB:202:ILE:HG23	45:EB:300:MET:CE	2.26	0.62
44:EC:7:ILE:HB	44:EC:136:LEU:O	1.99	0.62
44:EC:118:CYS:HA	44:EC:121:ARG:CZ	2.29	0.62
45:ED:52:ASN:OD1	45:ED:62:ARG:NH2	2.17	0.62
45:ED:386:THR:O	45:ED:390:ARG:HG2	1.98	0.62
44:EE:183:GLU:HG2	44:EE:184:PRO:HD3	1.81	0.62
44:EE:285:GLN:C	44:EE:287:SER:HA	2.20	0.62
45:EF:330:MET:O	45:EF:333:VAL:HG12	1.99	0.62
44:EG:238:LEU:HD11	44:EG:378:ILE:HD11	1.81	0.62
45:EJ:7:ILE:HB	45:EJ:135:ILE:HD13	1.80	0.62
44:EK:261:PRO:HB3	45:EL:394:PHE:CZ	2.33	0.62
44:FA:188:ILE:HD12	44:FA:425:LEU:CD1	2.29	0.62
44:FA:372:MET:O	44:FA:373:ARG:HG3	1.98	0.62
44:FA:407:TRP:CH2	45:FB:258:ILE:HB	2.34	0.62
45:FB:4:ILE:HG22	45:FB:132:GLY:N	2.14	0.62
45:FB:395:LEU:HG	45:FB:399:THR:CG2	2.29	0.62
44:FC:270:SER:HB3	44:FC:378:ILE:HD13	1.81	0.62
44:FC:340:THR:CG2	44:FC:341:ILE:HD12	2.21	0.62
45:FD:273:LEU:H	45:FD:292:GLN:HE22	1.46	0.62
45:FD:345:ILE:O	45:FD:345:ILE:HG23	1.99	0.62
44:FK:291:ILE:HG13	44:FK:292:THR:N	2.14	0.62
44:FM:71:GLU:OE2	44:FM:73:THR:HB	1.98	0.62
45:FN:210:ILE:HG23	45:FN:214:THR:CG2	2.27	0.62
44:GA:254:GLU:CG	45:GD:98:GLY:HA2	2.29	0.62
44:GA:408:TYR:HD2	44:GA:418:PHE:HZ	1.47	0.62
45:GB:134:GLN:O	45:GB:135:ILE:HD13	1.98	0.62
44:GE:275:ILE:HD12	44:GE:368:LEU:CD1	2.29	0.62
44:GE:324:VAL:CG2	44:GE:326:LYS:HE3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:105:ARG:O	44:GI:110:ILE:HG12	1.99	0.62
44:GM:167:LEU:HD11	44:GM:252:ILE:CG2	2.29	0.62
45:GN:102:ALA:HB2	45:GN:403:MET:HE2	1.81	0.62
44:HA:237:SER:HA	44:HA:320:ARG:NH1	2.10	0.62
44:HA:296:PHE:HD2	44:HA:341:ILE:HD13	1.64	0.62
44:HC:34:GLY:O	44:HC:60:LYS:HA	1.98	0.62
44:HC:107:HIS:HB2	44:HC:148:GLY:HA2	1.81	0.62
45:HD:287:PRO:O	45:HD:290:THR:HG22	1.99	0.62
44:HE:206:ASN:OD1	44:HE:207:GLU:N	2.32	0.62
44:HE:332:ILE:HD12	44:HE:351:PHE:CD2	2.33	0.62
44:HG:13:GLY:HA2	44:HG:16:VAL:HG12	1.79	0.62
45:HJ:242:PHE:CD1	45:HJ:356:ILE:HG13	2.34	0.62
44:HK:6:SER:O	44:HK:66:VAL:HG12	1.99	0.62
44:HK:208:ALA:O	44:HK:212:ILE:HG12	1.98	0.62
44:HK:210:TYR:CD1	44:HK:227:LEU:HD21	2.34	0.62
45:HN:309:ARG:HH22	45:HN:342:VAL:HG23	1.63	0.62
45:IB:50:TYR:O	45:IB:62:ARG:HG2	1.99	0.62
44:IC:169:PHE:HE2	44:IC:235:ILE:HD12	1.64	0.62
45:ID:178:THR:N	45:ID:181:GLU:OE2	2.31	0.62
45:ID:320:ARG:HH12	45:ID:356:ILE:HD13	1.63	0.62
44:IE:88:HIS:HB2	44:IE:91:GLN:HG2	1.81	0.62
44:IE:191:THR:O	44:IE:194:LEU:HG	1.99	0.62
44:IE:218:ASP:O	44:IE:219:ILE:HD13	1.98	0.62
44:IE:229:ARG:NH1	44:IE:229:ARG:HB2	2.14	0.62
44:IE:288:VAL:CA	44:IE:291:ILE:HG12	2.25	0.62
45:IF:268:ILE:HG13	45:IF:300:MET:CG	2.28	0.62
44:IG:332:ILE:HD12	44:IG:351:PHE:CD2	2.34	0.62
44:II:174:SER:CB	44:II:207:GLU:HB2	2.29	0.62
45:IJ:272:PRO:HD3	45:IJ:364:ALA:HA	1.80	0.62
44:JA:430:LYS:HD2	44:JA:433:GLU:OE2	1.98	0.62
44:JC:115:VAL:HG11	44:JC:152:LEU:CD2	2.29	0.62
45:JD:39:ASP:OD1	45:JD:43:GLN:NE2	2.31	0.62
45:JD:130:LEU:HB3	45:JD:162:ARG:HD2	1.81	0.62
44:JE:241:SER:CA	44:JE:356:ASN:HD21	2.11	0.62
44:JG:215:ARG:HH22	44:JG:300:ASN:HB2	1.64	0.62
44:JK:274:PRO:CD	44:JK:374:ALA:HA	2.29	0.62
45:JL:124:ALA:HB1	45:JL:130:LEU:HD21	1.81	0.62
45:JL:292:GLN:HG2	45:JL:298:ASN:ND2	2.13	0.62
44:JM:118:CYS:O	44:JM:122:ILE:HG12	1.99	0.62
44:KA:331:SER:O	44:KA:335:ILE:HG12	1.99	0.62
45:KB:117:LEU:HD21	45:KB:154:LYS:HZ1	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:265:PHE:HD1	45:KD:374:ILE:HD11	1.63	0.62
45:KH:350:LYS:HZ3	45:KH:352:SER:HB3	1.63	0.62
44:KI:217:LEU:HD13	44:KI:277:SER:CB	2.27	0.62
45:KL:5:VAL:HG12	45:KL:62:ARG:CD	2.29	0.62
45:KL:186:THR:HG21	45:KL:385:PHE:CD1	2.34	0.62
44:KM:311:LYS:HD3	44:KM:342:GLN:HG3	1.81	0.62
44:LA:222:PRO:O	45:LB:322:SER:HB2	1.99	0.62
45:LB:309:ARG:H	45:LB:372:THR:CG2	2.12	0.62
44:LC:176:GLN:OE1	44:LC:176:GLN:N	2.32	0.62
44:LC:258:ASN:HD21	44:LC:352:LYS:HB2	1.64	0.62
44:LC:272:TYR:CE2	44:LC:275:ILE:HD11	2.34	0.62
45:LF:122:LYS:HE2	45:MF:291:GLN:CG	2.28	0.62
44:LI:8:HIS:HD2	44:LI:138:PHE:HB2	1.64	0.62
44:LI:66:VAL:HG22	44:LI:68:LEU:CD1	2.29	0.62
44:LM:271:SER:HB2	44:LM:301:MET:CE	2.29	0.62
45:MF:116:VAL:HG22	45:MF:120:VAL:HG23	1.81	0.62
45:MF:216:LYS:HB2	45:MF:275:SER:HB2	1.81	0.62
45:MH:101:TRP:HB2	45:MH:184:ASN:OD1	1.99	0.62
45:MH:286:VAL:HB	45:MH:325:GLU:CD	2.19	0.62
44:MI:28:HIS:CE1	44:MI:49:PHE:HA	2.33	0.62
44:MI:221:ARG:NH2	45:MJ:325:GLU:HB3	2.13	0.62
44:MI:284:GLU:HG3	44:MI:286:LEU:HD22	1.82	0.62
45:MJ:12:CYS:O	45:MJ:16:ILE:HG12	1.99	0.62
45:MJ:146:GLY:O	45:MJ:149:THR:HG22	1.99	0.62
44:MM:91:GLN:NE2	44:MM:125:LEU:HD11	2.13	0.62
45:MN:173:PRO:CG	45:MN:380:ARG:HD3	2.28	0.62
45:NB:313:ALA:HB3	45:NB:349:ILE:CD1	2.29	0.62
45:ND:25:SER:OG	45:ND:30:ILE:O	2.16	0.62
45:ND:105:HIS:ND1	45:ND:150:LEU:HD12	2.14	0.62
45:ND:131:GLN:HA	45:ND:162:ARG:NH1	2.14	0.62
44:NE:13:GLY:HA2	44:NE:16:VAL:CG2	2.29	0.62
44:NE:287:SER:O	44:NE:291:ILE:HG23	1.99	0.62
44:NE:434:GLU:O	44:NE:437:ILE:HG22	1.99	0.62
45:NF:31:ASP:HB2	45:NF:32:PRO:HD2	1.81	0.62
45:NF:65:LEU:HD11	45:NF:85:PHE:CE2	2.34	0.62
45:NF:186:THR:HA	45:NF:415:MET:HE1	1.79	0.62
45:NJ:42:LEU:CD1	45:NJ:356:ILE:HD11	2.29	0.62
44:NK:332:ILE:HG23	44:NK:351:PHE:CD2	2.33	0.62
45:NL:36:TYR:CD1	45:NL:44:LEU:HD21	2.34	0.62
44:NM:276:ILE:HB	44:NM:369:ALA:CA	2.29	0.62
45:NN:169:VAL:HG13	45:NN:202:ILE:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:49:PHE:HB2	44:OA:53:PHE:HB2	1.79	0.62
45:OB:268:ILE:HG22	45:OB:368:VAL:CG2	2.29	0.62
44:OC:72:PRO:HD2	45:OD:2:ARG:NH2	2.14	0.62
44:OC:288:VAL:HA	44:OC:291:ILE:CD1	2.29	0.62
45:OD:268:ILE:HD11	45:OD:300:MET:HG2	1.81	0.62
44:OG:179:THR:HG23	45:OH:351:SER:OG	1.98	0.62
44:OG:238:LEU:HD11	44:OG:255:PHE:HE2	1.63	0.62
45:OH:5:VAL:CG2	45:OH:133:PHE:HA	2.28	0.62
44:OI:68:LEU:HD11	44:OI:118:CYS:CB	2.22	0.62
45:OJ:270:PHE:HD2	45:OJ:273:LEU:HD21	1.64	0.62
45:OL:58:ARG:NH2	45:PL:281:TYR:OH	2.31	0.62
45:OL:321:MET:HB2	45:OL:325:GLU:OE2	1.99	0.62
44:OM:9:VAL:HG21	44:OM:150:GLY:N	2.14	0.62
44:PA:64:ARG:NE	44:PA:129:CYS:SG	2.71	0.62
44:PA:243:ARG:HG3	44:PA:244:PHE:CD2	2.33	0.62
45:PD:19:LYS:HG2	45:PD:226:ASN:C	2.19	0.62
45:PD:272:PRO:HB3	45:PD:282:ARG:HH22	1.63	0.62
45:PD:316:LEU:O	45:PD:365:VAL:HA	1.99	0.62
44:PE:90:GLU:OE1	44:QE:280:LYS:HE2	1.99	0.62
44:PE:248:LEU:HG	44:PE:354:GLY:HA2	1.81	0.62
45:PF:2:ARG:NH2	45:PF:240:LEU:O	2.32	0.62
45:PF:24:ILE:HD11	45:PF:230:SER:CB	2.29	0.62
45:PF:372:THR:HA	45:PF:422:TYR:CE2	2.31	0.62
44:PG:210:TYR:CD1	45:PH:324:LYS:HD2	2.34	0.62
44:PG:348:PRO:HD2	45:PJ:388:MET:CE	2.29	0.62
44:PI:14:ILE:HD13	44:PI:75:ILE:HD11	1.81	0.62
44:PI:340:THR:O	44:PI:341:ILE:HD13	1.99	0.62
45:PJ:130:LEU:HD11	45:PJ:133:PHE:HE1	1.64	0.62
44:PK:6:SER:HB2	44:PK:136:LEU:HD12	1.80	0.62
44:PK:14:ILE:HD13	44:PK:69:ASP:HB2	1.80	0.62
44:PK:210:TYR:CD2	45:PL:324:LYS:HG3	2.34	0.62
44:PK:414:GLU:HB2	44:PK:417:GLU:CG	2.29	0.62
44:PM:7:ILE:HD12	44:PM:122:ILE:HD11	1.81	0.62
44:PM:188:ILE:HG22	44:PM:421:ALA:HB1	1.81	0.62
44:PM:271:SER:OG	44:PM:301:MET:SD	2.57	0.62
45:PN:213:ARG:NH1	45:PN:214:THR:HG22	2.14	0.62
44:QA:24:PHE:O	44:QA:27:GLU:HB3	1.99	0.62
44:QA:68:LEU:HA	44:QA:93:ILE:HB	1.79	0.62
44:QA:329:ASN:O	44:QA:333:ALA:N	2.29	0.62
44:QC:206:ASN:HA	44:QC:209:ILE:CG1	2.29	0.62
44:QC:258:ASN:HB3	45:QD:179:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:288:VAL:HA	44:QC:291:ILE:CG1	2.24	0.62
45:QD:105:HIS:CD2	45:QD:150:LEU:HB2	2.34	0.62
44:QE:280:LYS:HD2	44:QE:280:LYS:O	1.99	0.62
45:QF:101:TRP:CE3	45:QF:187:LEU:HD13	2.33	0.62
44:QG:238:LEU:HD11	44:QG:255:PHE:CZ	2.34	0.62
44:QG:329:ASN:HA	44:QG:332:ILE:HD13	1.81	0.62
44:QG:363:VAL:CG1	44:QG:364:PRO:HD2	2.29	0.62
45:QJ:319:GLY:HA2	45:QJ:357:PRO:HG3	1.80	0.62
45:QL:113:ILE:CD1	45:QL:151:LEU:HD22	2.29	0.62
44:QM:344:VAL:HG12	44:QM:347:CYS:HB2	1.79	0.62
45:QN:52:ASN:HB2	45:QN:60:VAL:HG13	1.80	0.62
45:QN:184:ASN:OD1	45:QN:185:ALA:N	2.32	0.62
45:RB:303:ALA:H	45:RB:377:MET:CE	2.11	0.62
44:RE:259:LEU:HD13	44:RE:268:MET:CE	2.29	0.62
45:RF:68:LEU:HD23	45:RF:97:ALA:HB2	1.80	0.62
44:RG:324:VAL:CG2	44:RG:326:LYS:HE3	2.25	0.62
45:RH:137:HIS:O	45:RH:168:SER:HA	1.99	0.62
45:RH:257:LEU:CD2	45:RH:368:VAL:HG12	2.28	0.62
44:RI:104:ALA:HB1	44:RI:411:GLU:HB2	1.79	0.62
44:RK:99:ALA:HA	44:RK:105:ARG:NH1	2.14	0.62
44:RK:174:SER:HB2	44:RK:177:VAL:HB	1.79	0.62
44:RM:15:GLN:O	44:RM:18:ASN:HB2	1.98	0.62
44:RM:254:GLU:HG2	45:RN:98:GLY:CA	2.29	0.62
44:RM:271:SER:HB2	44:RM:377:MET:HG2	1.79	0.62
45:RN:210:ILE:O	45:RN:214:THR:OG1	2.16	0.62
45:SB:186:THR:HA	45:SB:415:MET:CE	2.29	0.62
44:SC:274:PRO:HG3	44:SC:291:ILE:HG22	1.81	0.62
45:SD:286:VAL:HA	45:SD:289:LEU:HD12	1.80	0.62
44:SE:69:ASP:O	44:SE:95:GLY:N	2.32	0.62
45:SF:131:GLN:HG2	45:SF:250:LEU:HD12	1.81	0.62
44:SG:214:ARG:HH12	44:SG:220:GLU:HB2	1.63	0.62
44:SG:295:ALA:HB1	44:SG:377:MET:HE3	1.81	0.62
44:SG:372:MET:HG3	44:SG:373:ARG:HH11	1.59	0.62
44:SK:280:LYS:O	44:SK:283:HIS:N	2.29	0.62
44:SK:288:VAL:CA	44:SK:291:ILE:HG12	2.27	0.62
45:SL:164:MET:O	45:SL:197:ASP:HB2	1.99	0.62
44:SM:31:GLN:NE2	44:SM:35:GLN:H	1.97	0.62
44:SM:122:ILE:HG13	44:SM:156:ARG:NH2	2.14	0.62
44:SM:360:PRO:HD2	44:SM:371:VAL:O	2.00	0.62
45:SN:46:ARG:NE	45:SN:49:VAL:HG23	2.13	0.62
44:TA:154:LEU:HD13	44:TA:198:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:312:TYR:O	44:TA:344:VAL:HG22	1.98	0.62
44:TC:288:VAL:HA	44:TC:291:ILE:HG12	1.80	0.62
44:TC:387:VAL:CA	44:TC:390:ARG:HG2	2.29	0.62
44:TE:213:CYS:O	44:TE:217:LEU:HB2	1.98	0.62
45:TF:260:PHE:HB3	45:TF:261:PRO:HD2	1.81	0.62
44:TI:87:PHE:HB3	44:TI:91:GLN:HE21	1.64	0.62
45:TJ:244:GLY:HA2	45:TJ:355:ASP:OD2	1.99	0.62
44:TK:226:ASN:HA	44:TK:229:ARG:NH2	2.14	0.62
44:TK:311:LYS:O	44:TK:381:SER:HB2	1.98	0.62
45:TL:313:ALA:HB3	45:TL:349:ILE:CA	2.21	0.62
45:TN:164:MET:HG2	45:TN:197:ASP:OD2	1.99	0.62
45:TN:210:ILE:HG23	45:TN:214:THR:CG2	2.29	0.62
45:UB:46:ARG:HH22	44:UC:72:PRO:HB2	1.65	0.62
45:UB:251:ARG:NH2	44:UC:98:ASP:HB3	2.14	0.62
44:UC:195:LEU:HA	44:UC:266:HIS:NE2	2.13	0.62
45:UF:113:ILE:HD11	45:UF:150:LEU:HD22	1.78	0.62
44:UG:290:GLU:O	44:UG:294:SER:OG	2.10	0.62
45:UH:173:PRO:HG3	45:UH:380:ARG:HD3	1.81	0.62
44:UI:291:ILE:HG13	44:UI:292:THR:N	2.14	0.62
44:UK:208:ALA:O	44:UK:212:ILE:HG12	1.98	0.62
44:UK:306:ASP:OD1	44:UK:308:ARG:N	2.24	0.62
44:UK:387:VAL:HA	44:UK:390:ARG:HG2	1.81	0.62
45:UL:132:GLY:HA3	45:UL:163:ILE:HG12	1.81	0.62
44:UM:71:GLU:OE1	44:UM:73:THR:OG1	2.14	0.62
44:UM:200:VAL:HG13	44:UM:268:MET:CE	2.28	0.62
44:VC:194:LEU:HB2	44:VC:198:THR:OG1	1.99	0.62
45:VD:113:ILE:CD1	45:VD:150:LEU:HD22	2.29	0.62
44:VE:90:GLU:OE1	44:WE:280:LYS:NZ	2.29	0.62
45:VF:50:TYR:O	45:VF:62:ARG:HG2	1.99	0.62
44:VG:67:PHE:HB2	44:VG:92:LEU:HD23	1.80	0.62
44:VG:112:LYS:O	44:VG:115:VAL:HG12	1.98	0.62
45:VJ:200:MET:HE1	45:VJ:266:PHE:HB2	1.81	0.62
44:VK:284:GLU:HG3	44:VK:286:LEU:HD22	1.80	0.62
45:VL:182:PRO:HG3	45:VL:384:GLN:HG3	1.81	0.62
44:VM:98:ASP:HB3	45:VN:249:ASP:OD2	1.99	0.62
44:VM:181:VAL:HG22	45:VN:256:ASN:HB3	1.80	0.62
44:VM:278:ALA:HB2	44:VM:369:ALA:CB	2.29	0.62
44:VM:431:ASP:O	44:VM:435:VAL:HG23	1.99	0.62
45:VN:166:THR:HG21	45:VN:192:LEU:HD11	1.81	0.62
44:WA:68:LEU:HD21	44:WA:118:CYS:SG	2.39	0.62
44:WA:106:GLY:O	44:WA:153:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WA:186:ASN:HA	44:WA:189:LEU:CB	2.28	0.62
44:WC:208:ALA:O	44:WC:212:ILE:HG12	1.99	0.62
44:WG:275:ILE:HG23	44:WG:275:ILE:O	1.99	0.62
45:WH:186:THR:HG21	45:WH:385:PHE:CE1	2.34	0.62
45:WH:267:MET:CE	45:WH:301:CYS:HB3	2.21	0.62
45:WH:298:ASN:O	45:WH:298:ASN:ND2	2.21	0.62
44:WI:324:VAL:CG1	44:WI:325:PRO:HD2	2.28	0.62
45:WN:210:ILE:HD13	45:WN:297:LYS:O	1.99	0.62
16:OX:56:LYS:HG2	44:MA:279:GLU:OE2	1.98	0.62
18:1F:63:VAL:HG21	45:GL:56:GLY:HA2	1.81	0.62
20:1J:263:PHE:CD1	44:II:282:TYR:HD1	2.04	0.62
25:1P:221:ILE:HG22	44:TG:370:LYS:HE2	1.79	0.62
26:1R:256:ARG:NH2	44:CC:361:THR:HG23	2.13	0.62
28:2C:223:GLN:NE2	44:KI:219:ILE:HD13	2.14	0.62
21:2K:433:LEU:HD11	44:GE:278:ALA:HB1	1.81	0.62
24:2O:141:LYS:HE2	44:VK:372:MET:HE1	1.79	0.62
24:2O:289:ILE:HD11	45:VH:360:GLY:HA2	1.81	0.62
11:3Q:22:LEU:CD2	36:5S:202:ASP:HB3	2.29	0.62
13:3T:149:ASN:HD22	45:MN:403:MET:CE	2.11	0.62
34:4F:14:TYR:HB2	45:GJ:48:ASN:OD1	1.97	0.62
34:4F:35:TRP:CD1	45:HJ:41:ASP:HB3	2.34	0.62
34:4F:71:TYR:HE2	44:II:26:LEU:HD13	1.62	0.62
37:5C:41:SER:HB3	44:KG:264:ARG:HH21	1.63	0.62
37:5D:37:ASP:C	44:KK:262:TYR:HB3	2.20	0.62
35:5R:45:ILE:O	35:5R:45:ILE:HG22	1.97	0.62
35:5R:478:ASN:HD22	35:5R:481:ASN:H	1.46	0.62
40:6F:86:MET:HE1	45:JF:355:ASP:OD1	1.99	0.62
41:6G:241:LYS:HD3	45:VD:336:LYS:HG2	1.80	0.62
35:6R:93:LEU:HD22	35:6R:187:THR:HG23	1.81	0.62
35:7R:285:THR:HG21	35:7R:309:LEU:HB2	1.81	0.62
43:8R:336:UNK:O	43:8R:340:UNK:N	2.31	0.62
45:AB:183:TYR:OH	45:AB:388:MET:HG2	2.00	0.62
45:AF:193:VAL:HA	45:AF:264:HIS:CE1	2.33	0.62
45:AJ:326:VAL:HG11	45:AJ:353:ILE:HD11	1.82	0.62
44:AM:51:THR:HG21	44:AM:243:ARG:CD	2.29	0.62
44:AM:179:THR:HG21	46:AM:501:GTP:H3'	1.82	0.62
44:AM:286:LEU:O	44:AM:373:ARG:NH2	2.32	0.62
45:AN:302:ALA:HB3	45:AN:377:MET:SD	2.39	0.62
45:BD:68:LEU:HD23	45:BD:97:ALA:N	2.13	0.62
45:BD:211:CYS:SG	45:BD:217:LEU:HD21	2.39	0.62
45:BD:232:ALA:HB2	45:BD:270:PHE:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:210:ILE:HD13	45:BF:228:LEU:HD11	1.81	0.62
44:BG:210:TYR:OH	45:BH:323:THR:HG23	2.00	0.62
45:BJ:1:MET:O	45:BJ:2:ARG:HG2	1.99	0.62
45:BL:3:GLU:HG3	45:BL:62:ARG:HH22	1.62	0.62
45:BL:22:GLU:HG2	45:BL:81:PHE:CG	2.33	0.62
44:CA:311:LYS:HG3	44:CA:312:TYR:H	1.63	0.62
45:CB:60:VAL:HG21	45:CB:86:ARG:HG2	1.81	0.62
45:CF:2:ARG:HB2	45:CF:131:GLN:OE1	1.98	0.62
45:CF:152:ILE:HD12	45:CF:164:MET:HE2	1.80	0.62
44:CI:103:PHE:H	44:CI:408:TYR:HE1	1.46	0.62
45:CJ:287:PRO:O	45:CJ:290:THR:HG22	1.98	0.62
45:CJ:344:TRP:CE2	44:CK:401:LYS:HE3	2.33	0.62
45:CL:257:LEU:HA	45:CL:312:THR:HG21	1.81	0.62
44:CM:89:PRO:CG	44:DM:280:LYS:HD2	2.28	0.62
45:CN:1:MET:O	45:CN:2:ARG:HG2	1.99	0.62
45:CN:3:GLU:CA	45:CN:49:VAL:HG22	2.28	0.62
45:CN:100:ASN:HD22	45:CN:103:LYS:HB2	1.64	0.62
45:CN:293:MET:SD	45:CN:367:PHE:HB2	2.39	0.62
44:DA:19:ALA:HA	44:DA:22:GLU:OE1	1.99	0.62
44:DA:328:VAL:HG11	44:DA:353:VAL:HG21	1.80	0.62
44:DC:420:GLU:O	44:DC:423:GLU:HG2	1.98	0.62
44:DE:284:GLU:HG3	44:DE:286:LEU:CD2	2.28	0.62
45:DF:238:CYS:SG	45:DF:318:ARG:NE	2.72	0.62
45:DH:103:LYS:O	45:DH:108:GLU:HB2	1.98	0.62
45:DH:255:VAL:HA	44:DI:407:TRP:CZ3	2.35	0.62
44:DI:169:PHE:HZ	44:DI:238:LEU:HD13	1.63	0.62
44:DI:230:LEU:O	44:DI:234:VAL:HG23	1.98	0.62
45:DJ:330:MET:SD	45:DJ:349:ILE:HG21	2.39	0.62
44:DK:385:ALA:HA	44:DK:388:PHE:CD2	2.34	0.62
45:DL:19:LYS:HA	45:DL:22:GLU:HB2	1.79	0.62
45:DN:209:ASP:OD1	45:DN:213:ARG:HD3	1.99	0.62
45:DN:415:MET:O	45:DN:419:VAL:HG23	1.99	0.62
44:EA:52:PHE:HE2	44:EA:243:ARG:HD2	1.64	0.62
44:EE:37:PRO:CG	44:EE:40:LYS:HB2	2.28	0.62
44:EG:91:GLN:HA	44:EG:121:ARG:HH22	1.62	0.62
45:EH:204:ASN:OD1	45:EH:207:LEU:HD12	1.99	0.62
45:EJ:255:VAL:HG21	44:EK:100:ALA:O	1.99	0.62
44:EK:289:ALA:HA	44:EK:331:SER:OG	1.99	0.62
45:EL:177:ASP:N	45:EL:181:GLU:OE2	2.22	0.62
45:EN:32:PRO:CA	45:EN:84:LEU:HD11	2.21	0.62
45:FB:27:GLU:CD	45:FB:28:HIS:HD1	2.01	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:239:CYS:SG	45:FB:248:SER:HB3	2.40	0.62
45:FB:304:ASP:OD1	45:FB:306:ARG:N	2.28	0.62
45:FD:102:ALA:O	45:FD:106:TYR:N	2.31	0.62
44:FE:394:LYS:HE3	45:FF:346:PRO:CB	2.29	0.62
44:FG:312:TYR:O	44:FG:344:VAL:HG23	2.00	0.62
44:FG:398:MET:HE2	45:FH:346:PRO:HD2	1.81	0.62
45:FH:36:TYR:CZ	45:FH:38:GLY:HA3	2.33	0.62
44:FI:100:ALA:HB1	45:FJ:252:LYS:HA	1.80	0.62
45:FJ:341:PHE:HB3	45:FJ:348:ASN:ND2	2.13	0.62
45:FL:413:SER:O	45:FL:417:ASP:N	2.23	0.62
45:FN:103:LYS:HB2	45:FN:401:GLU:OE2	1.98	0.62
44:GA:12:GLY:O	44:GA:16:VAL:HG23	1.99	0.62
44:GA:270:SER:HB3	44:GA:378:ILE:HD13	1.81	0.62
44:GA:311:LYS:HZ2	44:GA:312:TYR:H	1.47	0.62
45:GB:112:LEU:HD22	45:GB:147:MET:CE	2.29	0.62
45:GD:97:ALA:CB	45:GD:143:THR:HA	2.29	0.62
44:GI:425:LEU:O	44:GI:429:GLU:N	2.23	0.62
45:GJ:167:PHE:HD2	45:GJ:233:MET:HE1	1.64	0.62
45:GJ:170:VAL:CG2	45:GJ:171:PRO:HD2	2.28	0.62
44:GK:80:THR:HG22	44:GK:80:THR:O	1.99	0.62
44:GK:383:ALA:O	44:GK:386:GLU:HG2	1.99	0.62
44:GM:88:HIS:HB3	44:GM:91:GLN:OE1	1.98	0.62
45:GN:68:LEU:O	45:GN:96:GLY:N	2.31	0.62
45:HB:156:ARG:NH1	45:HB:162:ARG:O	2.32	0.62
45:HB:229:VAL:O	45:HB:233:MET:HG3	1.99	0.62
44:HC:88:HIS:O	44:HC:91:GLN:HG2	2.00	0.62
44:HC:208:ALA:HB3	44:HC:302:MET:O	1.99	0.62
44:HE:222:PRO:O	45:HF:322:SER:HB2	1.99	0.62
44:HE:340:THR:CG2	44:HE:341:ILE:HD12	2.24	0.62
44:HG:404:PHE:CE1	45:HH:259:PRO:HA	2.33	0.62
45:HJ:403:MET:HA	45:HJ:403:MET:CE	2.29	0.62
44:HK:331:SER:O	44:HK:335:ILE:HG12	1.99	0.62
45:HN:137:HIS:NE2	45:HN:168:SER:OG	2.32	0.62
45:HN:175:VAL:HG21	45:HN:204:ASN:HB2	1.80	0.62
45:HN:395:LEU:O	45:HN:399:THR:HG23	2.00	0.62
44:IA:167:LEU:HG	44:IA:200:VAL:CB	2.25	0.62
45:IB:3:GLU:HB2	45:IB:49:VAL:HA	1.80	0.62
45:ID:8:GLN:O	45:ID:66:MET:HG3	1.98	0.62
44:IE:72:PRO:HB2	45:IF:46:ARG:HH22	1.64	0.62
44:IE:174:SER:OG	44:IE:207:GLU:HB2	1.99	0.62
44:IE:261:PRO:HA	45:IH:394:PHE:CD1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:55:THR:HB	44:JG:372:MET:CE	2.29	0.62
44:IM:104:ALA:CB	44:IM:411:GLU:HB2	2.29	0.62
44:JA:147:SER:HB2	44:JA:190:SER:HB3	1.81	0.62
44:JA:189:LEU:HD11	44:JA:418:PHE:CE1	2.34	0.62
45:JB:77:ARG:HB3	45:JB:77:ARG:CZ	2.29	0.62
45:JB:410:GLU:O	45:JB:413:SER:OG	2.12	0.62
44:JC:30:ILE:HG12	44:JC:36:MET:HB2	1.80	0.62
44:JC:205:ASP:OD2	44:JC:304:LYS:N	2.17	0.62
44:JC:256:GLN:HB2	45:JF:397:TRP:CZ2	2.34	0.62
45:JF:240:LEU:HD23	45:JF:240:LEU:O	1.99	0.62
44:JG:320:ARG:HD3	44:JG:360:PRO:HG3	1.81	0.62
44:JI:323:VAL:CG1	44:JI:355:ILE:HD12	2.28	0.62
45:JJ:163:ILE:HD12	45:JJ:197:ASP:OD2	1.98	0.62
45:JJ:170:VAL:HG22	45:JJ:171:PRO:HD3	1.80	0.62
45:JL:4:ILE:HD11	45:JL:50:TYR:CZ	2.32	0.62
45:JL:286:VAL:HG22	45:JL:287:PRO:HD3	1.80	0.62
44:JM:358:GLN:CD	44:JM:359:PRO:HD2	2.20	0.62
45:JN:151:LEU:O	45:JN:155:VAL:HG23	2.00	0.62
45:JN:278:SER:HB2	45:JN:282:ARG:CD	2.29	0.62
45:KB:20:PHE:O	45:KB:24:ILE:HG12	1.98	0.62
45:KD:31:ASP:HB3	45:KD:37:HIS:CD2	2.34	0.62
44:KE:51:THR:HG21	44:KE:243:ARG:CD	2.29	0.62
45:KF:49:VAL:HG11	45:KF:241:ARG:HD3	1.82	0.62
44:KG:404:PHE:CD1	45:KH:259:PRO:HA	2.34	0.62
45:KH:181:GLU:HG2	45:KH:182:PRO:HD3	1.80	0.62
44:KK:430:LYS:O	44:KK:430:LYS:HD3	1.99	0.62
45:KN:60:VAL:HG13	45:KN:84:LEU:O	1.98	0.62
45:LF:169:VAL:O	45:LF:169:VAL:HG23	1.99	0.62
44:LG:274:PRO:HD2	44:LG:374:ALA:HA	1.80	0.62
44:LM:269:LEU:HD23	44:LM:269:LEU:H	1.64	0.62
45:MJ:228:LEU:CD2	45:MJ:273:LEU:HD11	2.29	0.62
45:ML:290:THR:HG21	45:ML:329:GLN:NE2	2.13	0.62
44:MM:318:MET:HE1	44:MM:354:GLY:HA3	1.80	0.62
45:MN:42:LEU:CA	45:MN:45:GLU:HG3	2.28	0.62
45:NB:86:ARG:HB2	45:NB:89:ASN:OD1	1.98	0.62
44:NC:56:THR:O	44:OC:285:GLN:HA	1.99	0.62
44:NC:222:PRO:CG	45:ND:324:LYS:HD3	2.30	0.62
44:NC:419:SER:O	44:NC:423:GLU:HG2	1.98	0.62
44:NE:262:TYR:CE2	45:NH:393:ALA:HB2	2.34	0.62
44:NE:311:LYS:CE	44:NE:342:GLN:HB3	2.28	0.62
44:NG:260:VAL:HG11	45:NJ:397:TRP:HZ2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:21:TRP:CH2	45:NJ:61:PRO:HB3	2.34	0.62
44:NK:275:ILE:O	44:NK:275:ILE:HG23	1.98	0.62
45:NL:260:PHE:HB3	45:NL:261:PRO:HD2	1.81	0.62
44:OG:68:LEU:HD21	44:OG:93:ILE:HB	1.81	0.62
44:OG:417:GLU:HA	44:OG:420:GLU:OE2	1.99	0.62
45:ON:388:MET:CG	45:ON:393:ALA:HB3	2.28	0.62
44:PA:67:PHE:CB	44:PA:92:LEU:HA	2.28	0.62
44:PA:136:LEU:CD2	44:PA:167:LEU:HB2	2.28	0.62
45:PD:231:ALA:HB1	45:PD:270:PHE:CZ	2.34	0.62
45:PH:152:ILE:HD12	45:PH:164:MET:HE2	1.79	0.62
44:PI:166:LYS:N	44:PI:199:ASP:OD2	2.31	0.62
44:PI:353:VAL:HG12	45:PL:177:ASP:HA	1.80	0.62
45:PJ:213:ARG:HH21	45:PJ:297:LYS:HD3	1.64	0.62
44:PM:53:PHE:CE2	44:PM:63:PRO:HG3	2.33	0.62
44:PM:317:MET:N	44:PM:352:LYS:O	2.32	0.62
45:PN:309:ARG:HH22	45:PN:343:GLU:CG	2.12	0.62
44:QA:213:CYS:O	44:QA:217:LEU:HB2	1.99	0.62
44:QA:257:THR:HA	45:QB:397:TRP:NE1	2.14	0.62
44:QC:414:GLU:HB2	44:QC:417:GLU:HG2	1.81	0.62
45:QD:260:PHE:HB2	45:QD:263:LEU:HD13	1.80	0.62
45:QF:318:ARG:HD3	45:QF:358:PRO:CD	2.29	0.62
44:QG:56:THR:HG23	44:QG:58:ALA:H	1.64	0.62
44:QG:225:THR:HA	44:QG:228:ASN:OD1	1.99	0.62
45:QJ:130:LEU:HB3	45:QJ:162:ARG:HD2	1.79	0.62
44:QK:71:GLU:OE1	44:QK:73:THR:N	2.29	0.62
45:QL:377:MET:O	45:QL:380:ARG:HG2	1.99	0.62
44:QM:155:GLU:HG2	44:QM:197:HIS:CD2	2.34	0.62
44:QM:272:TYR:HD1	44:QM:376:CYS:HB2	1.64	0.62
44:QM:321:GLY:O	44:QM:357:TYR:HA	1.99	0.62
44:RA:35:GLN:OE1	44:RA:60:LYS:HB3	1.99	0.62
44:RA:228:ASN:OD1	44:RA:229:ARG:N	2.32	0.62
45:RB:3:GLU:HB3	45:RB:49:VAL:HA	1.82	0.62
44:RC:295:ALA:O	44:RC:301:MET:HE1	1.98	0.62
45:RD:113:ILE:HD12	45:RD:150:LEU:CD2	2.28	0.62
45:RD:322:SER:HB2	44:RE:222:PRO:O	1.98	0.62
44:RG:205:ASP:CG	44:RG:304:LYS:H	2.03	0.62
44:RI:434:GLU:O	44:RI:437:ILE:HG12	1.98	0.62
45:RJ:151:LEU:O	45:RJ:155:VAL:HG23	1.99	0.62
44:RK:161:TYR:HB3	44:RK:164:LYS:HG3	1.81	0.62
44:RM:184:PRO:O	44:RM:188:ILE:HG12	1.99	0.62
44:SA:3:GLU:O	44:SA:132:LEU:HG	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:7:ILE:HG13	44:SA:7:ILE:O	1.98	0.62
44:SA:248:LEU:HD23	44:SA:353:VAL:HG13	1.82	0.62
44:SA:316:SER:N	44:SA:378:ILE:O	2.31	0.62
45:SB:91:VAL:HG21	45:SB:116:VAL:HB	1.81	0.62
45:SB:102:ALA:HB2	45:SB:398:TYR:HD1	1.63	0.62
44:SE:87:PHE:CB	44:SE:92:LEU:HD11	2.28	0.62
44:SG:419:SER:O	44:SG:423:GLU:HG3	2.00	0.62
45:SJ:32:PRO:HG3	45:SJ:81:PHE:CE2	2.34	0.62
45:SJ:97:ALA:HB3	45:SJ:143:THR:HG22	1.81	0.62
44:SK:21:TRP:CZ2	44:SK:63:PRO:HB3	2.33	0.62
44:SK:204:LEU:HD13	44:SK:231:ILE:HG23	1.82	0.62
45:SL:329:GLN:O	45:SL:333:VAL:HG12	1.99	0.62
45:TB:271:ALA:HB3	45:TB:365:VAL:HG23	1.79	0.62
44:TC:331:SER:O	44:TC:334:THR:HB	1.99	0.62
45:TD:69:GLU:OE2	45:TD:72:THR:HG22	1.99	0.62
45:TD:182:PRO:O	45:TD:186:THR:OG1	2.11	0.62
44:TE:346:TRP:CZ3	44:TE:347:CYS:HB2	2.34	0.62
45:TF:231:ALA:HB1	45:TF:270:PHE:CE1	2.34	0.62
44:TG:134:GLY:HA3	44:TG:165:SER:OG	1.98	0.62
44:TG:189:LEU:HD11	44:TG:418:PHE:CE1	2.34	0.62
45:TH:36:TYR:CZ	45:TH:44:LEU:HG	2.34	0.62
44:TI:191:THR:HA	44:TI:194:LEU:CG	2.27	0.62
45:TL:141:GLY:HA3	48:TL:501:GDP:O3A	1.99	0.62
45:TN:317:PHE:CD2	45:TN:321:MET:HE1	2.35	0.62
44:UA:169:PHE:CE2	44:UA:235:ILE:HD12	2.33	0.62
45:UB:22:GLU:HG2	45:UB:81:PHE:CG	2.34	0.62
45:UB:131:GLN:HE22	45:UB:251:ARG:HG3	1.62	0.62
44:UC:134:GLY:HA3	44:UC:165:SER:OG	1.99	0.62
44:UE:356:ASN:OD1	44:UE:357:TYR:N	2.32	0.62
44:UE:434:GLU:O	44:UE:437:ILE:HG12	1.98	0.62
45:UF:2:ARG:NH2	45:UF:240:LEU:HG	2.13	0.62
45:UF:112:LEU:HD23	45:UF:112:LEU:O	1.98	0.62
45:UF:167:PHE:HE2	45:UF:233:MET:HG2	1.64	0.62
45:UF:238:CYS:HB2	45:UF:318:ARG:CZ	2.28	0.62
45:UF:262:ARG:NH1	45:UF:421:GLU:OE1	2.32	0.62
45:UH:105:HIS:CE1	45:UH:150:LEU:HD12	2.33	0.62
44:UI:173:PRO:HD2	44:UI:391:LEU:HD21	1.81	0.62
45:UJ:313:ALA:HB3	45:UJ:349:ILE:CG1	2.27	0.62
45:UJ:325:GLU:HA	45:UJ:328:GLU:CG	2.28	0.62
44:UK:301:MET:CE	44:UK:307:PRO:HG3	2.21	0.62
45:UL:120:VAL:O	45:UL:124:ALA:N	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:133:PHE:O	45:UL:165:GLU:N	2.32	0.62
45:UN:110:ALA:O	45:UN:113:ILE:HG22	1.99	0.62
44:VA:209:ILE:HG22	44:VA:227:LEU:HD22	1.80	0.62
44:VA:229:ARG:HG2	44:VA:229:ARG:HH11	1.63	0.62
44:VA:348:PRO:HD2	45:VD:388:MET:HE2	1.80	0.62
44:VC:101:ASN:HA	44:VC:144:GLY:HA3	1.81	0.62
45:VD:77:ARG:HH12	45:VD:85:PHE:HB2	1.64	0.62
44:VE:324:VAL:HG13	44:VE:325:PRO:HD2	1.79	0.62
45:VF:133:PHE:HB2	45:VF:164:MET:HE1	1.80	0.62
44:VG:326:LYS:CE	45:VJ:219:THR:HG22	2.25	0.62
44:VI:248:LEU:HB3	44:VI:355:ILE:HG12	1.81	0.62
45:VJ:305:PRO:HA	45:VJ:373:ALA:CB	2.29	0.62
44:VK:97:GLU:HG2	44:VK:105:ARG:HH22	1.63	0.62
44:VK:287:SER:O	44:VK:291:ILE:HG12	1.99	0.62
45:VL:173:PRO:HG2	45:VL:380:ARG:HD3	1.81	0.62
44:VM:192:HIS:CD2	44:VM:424:ASP:HB2	2.34	0.62
44:VM:205:ASP:OD1	44:VM:303:ALA:HA	1.99	0.62
45:WB:85:PHE:HB3	45:WB:90:PHE:CE1	2.33	0.62
45:WB:274:THR:HB	45:WB:282:ARG:NH1	2.14	0.62
45:WH:187:LEU:HD11	45:WH:408:PHE:HE1	1.63	0.62
45:WJ:7:ILE:HB	45:WJ:135:ILE:HD12	1.81	0.62
45:WJ:105:HIS:O	45:WJ:105:HIS:ND1	2.33	0.62
44:WK:93:ILE:HD11	44:WK:117:LEU:HD23	1.80	0.62
44:WK:385:ALA:HA	44:WK:388:PHE:CD2	2.34	0.62
44:WK:404:PHE:CZ	45:WL:259:PRO:HA	2.34	0.62
44:WM:87:PHE:HB3	44:WM:91:GLN:HE21	1.63	0.62
44:WM:183:GLU:N	44:WM:184:PRO:HD2	2.14	0.62
44:WM:194:LEU:HB2	44:WM:198:THR:OG1	1.98	0.62
8:0G:56:LEU:HD23	44:JK:32:PRO:HD2	1.81	0.62
2:1A:143:HIS:HB3	44:AE:32:PRO:HG3	1.81	0.62
21:1K:169:LYS:NZ	44:GC:279:GLU:HG2	2.14	0.62
22:1L:525:LEU:CD1	45:BF:320:ARG:HB2	2.28	0.62
5:2D:47:SER:HA	45:DJ:53:GLU:HG2	1.80	0.62
32:2I:118:LYS:HG2	44:GC:339:ARG:O	1.98	0.62
22:2L:713:LEU:HA	45:CL:276:ARG:HH22	1.64	0.62
12:2S:311:PRO:HG2	45:AJ:260:PHE:HE1	1.63	0.62
16:2X:3:ARG:O	45:ML:75:SER:HB2	1.98	0.62
2:3A:153:PRO:HD2	35:6R:74:ILE:HD11	1.79	0.62
13:3T:134:SER:HB3	44:MK:132:LEU:HD21	1.81	0.62
35:4R:245:LEU:CD2	44:BE:58:ALA:HB3	2.30	0.62
38:5F:155:MET:SD	38:5G:14:ARG:NH2	2.72	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:213:TYR:HA	38:5G:216:LYS:HG2	1.79	0.62
35:5R:105:GLU:CG	45:BL:279:GLN:HE21	2.12	0.62
35:5R:300:PHE:HB3	35:5R:301:PRO:CD	2.28	0.62
40:6F:68:TRP:HZ3	45:JF:273:LEU:HD22	1.64	0.62
41:6G:133:ASN:N	41:6G:134:PRO:HD3	2.14	0.62
41:6G:230:TYR:CE2	44:UE:116:ASP:HB3	2.35	0.62
42:8N:245:UNK:O	42:8N:249:UNK:N	2.32	0.62
43:8R:109:UNK:O	43:8R:113:UNK:N	2.32	0.62
44:AA:383:ALA:O	44:AA:386:GLU:HG2	1.99	0.62
45:AB:18:ALA:HB3	45:AB:19:LYS:NZ	2.14	0.62
45:AD:130:LEU:HD21	45:AD:133:PHE:CE1	2.34	0.62
44:AG:311:LYS:N	44:AG:382:THR:HB	2.10	0.62
45:AL:178:THR:HG22	45:AL:180:VAL:H	1.64	0.62
45:AL:238:CYS:CB	45:AL:318:ARG:HH12	2.12	0.62
44:AM:238:LEU:HD23	44:AM:238:LEU:O	2.00	0.62
44:AM:307:PRO:HB2	44:AM:312:TYR:HE1	1.64	0.62
44:BC:223:THR:HB	45:BD:322:SER:HB2	1.80	0.62
45:BD:187:LEU:HD21	45:BD:408:PHE:HD1	1.64	0.62
45:BD:320:ARG:CZ	45:BD:355:ASP:HB3	2.30	0.62
45:BF:183:TYR:HE1	45:BF:388:MET:HB2	1.64	0.62
44:BG:276:ILE:CD1	44:BG:281:ALA:HA	2.29	0.62
45:BH:127:CYS:SG	45:BH:130:LEU:HD22	2.39	0.62
44:BI:2:ARG:O	44:BI:51:THR:HA	1.99	0.62
44:BI:274:PRO:CD	44:BI:374:ALA:HA	2.29	0.62
44:BI:407:TRP:HH2	45:BJ:254:ALA:HB1	1.64	0.62
45:BJ:77:ARG:HH12	45:BJ:83:GLN:HG3	1.65	0.62
45:BN:330:MET:SD	45:BN:349:ILE:HG21	2.39	0.62
44:CA:317:MET:HE1	44:CA:378:ILE:H	1.64	0.62
44:CG:88:HIS:C	44:CG:91:GLN:HG2	2.20	0.62
44:CG:270:SER:O	44:CG:302:MET:HB3	1.99	0.62
45:CN:3:GLU:HB3	45:CN:49:VAL:HA	1.81	0.62
45:CN:7:ILE:HG23	45:CN:64:ILE:HB	1.80	0.62
45:CN:61:PRO:CD	45:CN:84:LEU:HB3	2.29	0.62
45:CN:374:ILE:HA	45:CN:377:MET:HE3	1.81	0.62
44:DA:75:ILE:CD1	44:DA:92:LEU:HB3	2.25	0.62
45:DB:73:MET:HE2	45:DB:90:PHE:HD1	1.62	0.62
45:DB:136:THR:HA	45:DB:167:PHE:O	1.98	0.62
45:DB:137:HIS:O	45:DB:168:SER:HA	1.99	0.62
45:DB:325:GLU:CA	45:DB:328:GLU:HG2	2.28	0.62
44:DE:238:LEU:N	44:DE:318:MET:HE1	2.14	0.62
45:DF:231:ALA:O	45:DF:234:SER:OG	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:345:ILE:O	45:DF:345:ILE:HG23	1.98	0.62
44:DI:13:GLY:HA2	44:DI:16:VAL:HG12	1.80	0.62
44:EA:209:ILE:HG12	44:EA:302:MET:SD	2.40	0.62
44:EA:238:LEU:HD21	44:EA:255:PHE:HE2	1.63	0.62
45:EB:272:PRO:HB3	45:EB:282:ARG:NH2	2.12	0.62
44:EC:115:VAL:O	44:EC:115:VAL:HG13	1.98	0.62
44:EE:188:ILE:HD12	44:EE:191:THR:HB	1.80	0.62
45:EF:130:LEU:HD21	45:EF:133:PHE:HE1	1.64	0.62
44:EG:363:VAL:CG2	44:EG:364:PRO:HD2	2.28	0.62
45:EH:141:GLY:HA3	48:EH:501:GDP:O3A	1.97	0.62
44:EI:320:ARG:CA	44:EI:356:ASN:HB3	2.26	0.62
45:EJ:178:THR:CG2	45:EJ:180:VAL:HG12	2.28	0.62
45:EJ:318:ARG:HD3	45:EJ:358:PRO:HG3	1.81	0.62
45:EL:69:GLU:OE1	45:EL:71:GLY:N	2.33	0.62
45:EL:215:LEU:HD21	45:EL:273:LEU:HB3	1.80	0.62
45:EN:395:LEU:O	45:EN:399:THR:HG23	1.98	0.62
44:FA:11:GLN:O	44:FA:15:GLN:N	2.22	0.62
44:FA:176:GLN:NE2	45:FB:331:LEU:HD22	2.14	0.62
44:FA:269:LEU:HD23	44:FA:379:SER:O	2.00	0.62
44:FC:250:VAL:HG22	44:FC:255:PHE:CE1	2.34	0.62
44:FE:101:ASN:HA	44:FE:144:GLY:HA3	1.79	0.62
45:FH:143:THR:HG22	48:FH:501:GDP:O2B	2.00	0.62
45:FJ:86:ARG:HH21	45:FJ:87:PRO:CG	2.13	0.62
45:FJ:86:ARG:HG3	45:FJ:88:ASP:H	1.65	0.62
45:FJ:268:ILE:HG13	45:FJ:300:MET:HE2	1.81	0.62
44:FK:19:ALA:CB	44:FK:228:ASN:HB3	2.29	0.62
44:FM:106:GLY:C	44:FM:148:GLY:HA3	2.20	0.62
44:FM:222:PRO:CD	45:FN:324:LYS:HD3	2.29	0.62
45:FN:64:ILE:HG12	45:FN:119:VAL:HG21	1.78	0.62
44:GA:278:ALA:HB2	44:GA:369:ALA:CB	2.28	0.62
45:GB:203:ASP:HB2	45:GB:301:CYS:HA	1.81	0.62
44:GC:118:CYS:SG	44:GC:122:ILE:HD11	2.38	0.62
44:GC:311:LYS:CG	44:GC:342:GLN:HE22	2.10	0.62
44:GC:407:TRP:CZ3	45:GD:255:VAL:HA	2.27	0.62
44:GE:101:ASN:HA	44:GE:144:GLY:N	2.14	0.62
45:GF:233:MET:O	45:GF:236:VAL:HG12	1.99	0.62
44:GG:229:ARG:HG3	44:GG:229:ARG:HH11	1.65	0.62
44:GG:284:GLU:HG3	44:GG:286:LEU:CD2	2.28	0.62
44:GG:288:VAL:HG23	44:GG:291:ILE:HD11	1.81	0.62
45:GH:86:ARG:HG3	45:GH:88:ASP:H	1.64	0.62
45:GJ:269:GLY:HA2	45:GJ:300:MET:HE1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:49:PHE:HB2	44:GK:53:PHE:HB2	1.80	0.62
45:GL:3:GLU:O	45:GL:4:ILE:HD13	1.98	0.62
45:GL:222:TYR:CD1	45:GL:225:LEU:HD12	2.34	0.62
45:GL:260:PHE:HB3	45:GL:261:PRO:HD2	1.81	0.62
44:GM:237:SER:HA	44:GM:320:ARG:NH1	2.15	0.62
44:HA:143:GLY:O	44:HA:147:SER:OG	2.12	0.62
44:HC:70:LEU:HD21	44:HC:111:GLY:HA2	1.80	0.62
45:HD:257:LEU:HD11	45:HD:314:SER:HB3	1.81	0.62
45:HD:293:MET:HE1	45:HD:365:VAL:HB	1.81	0.62
45:HD:303:ALA:CB	45:HD:373:ALA:HB1	2.28	0.62
44:HE:71:GLU:CD	44:HE:73:THR:HG22	2.19	0.62
45:HF:167:PHE:CE2	45:HF:233:MET:HG2	2.34	0.62
44:HG:259:LEU:HD21	44:HG:268:MET:HE3	1.82	0.62
44:HG:269:LEU:HD23	44:HG:269:LEU:H	1.64	0.62
44:HG:387:VAL:O	44:HG:391:LEU:HD23	1.99	0.62
45:HH:8:GLN:HE22	45:HH:17:GLY:HA3	1.62	0.62
45:HH:210:ILE:HD13	45:HH:300:MET:HE2	1.78	0.62
44:HK:319:TYR:HB3	44:HK:323:VAL:HG11	1.81	0.62
45:HL:198:GLU:OE2	45:HL:254:ALA:HB2	1.99	0.62
44:HM:188:ILE:HG23	44:HM:425:LEU:CD1	2.29	0.62
44:IC:185:TYR:HE2	44:IC:404:PHE:HB2	1.64	0.62
45:ID:11:GLN:CG	45:ID:72:THR:HG21	2.28	0.62
45:IF:318:ARG:NH1	45:IF:358:PRO:HG3	2.14	0.62
45:IF:415:MET:HA	45:IF:415:MET:HE2	1.80	0.62
44:II:113:GLU:O	44:II:114:ILE:HD13	1.99	0.62
44:II:209:ILE:CG2	44:II:227:LEU:HD22	2.29	0.62
45:IJ:309:ARG:N	45:IJ:372:THR:OG1	2.29	0.62
45:IL:283:ALA:O	45:IL:288:GLU:HG3	1.98	0.62
44:IM:246:GLY:HA2	44:IM:357:TYR:CD2	2.34	0.62
45:IN:21:TRP:O	45:IN:24:ILE:HG22	1.99	0.62
45:IN:137:HIS:NE2	45:IN:168:SER:OG	2.33	0.62
45:IN:304:ASP:HB3	45:IN:307:HIS:CG	2.34	0.62
44:JA:60:LYS:HZ1	44:KA:282:TYR:HD2	1.46	0.62
45:JB:73:MET:HE1	45:JB:92:PHE:HB3	1.80	0.62
44:JG:329:ASN:HB3	45:JJ:175:VAL:CG1	2.29	0.62
45:JJ:11:GLN:HB3	45:JJ:72:THR:HG21	1.81	0.62
44:JK:55:GLU:HG3	44:JK:57:GLY:H	1.64	0.62
44:JK:141:VAL:CG2	44:JK:187:SER:HA	2.27	0.62
44:JK:216:ASN:HD22	44:JK:275:ILE:HB	1.63	0.62
44:JM:401:LYS:HZ1	45:JN:430:ALA:HA	1.64	0.62
45:JN:139:LEU:HD22	45:JN:188:SER:OG	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:178:THR:HG22	45:JN:180:VAL:H	1.63	0.62
44:KG:56:THR:HG21	44:KG:60:LYS:HE3	1.82	0.62
45:KJ:285:THR:HG23	45:KJ:288:GLU:H	1.63	0.62
45:KL:131:GLN:OE1	45:KL:250:LEU:HD12	1.97	0.62
45:KL:238:CYS:HB2	45:KL:318:ARG:HH11	1.62	0.62
45:KN:39:ASP:N	45:KN:43:GLN:OE1	2.32	0.62
45:KN:174:LYS:CE	45:KN:205:GLU:HG3	2.29	0.62
45:LB:270:PHE:CD2	45:LB:273:LEU:HD21	2.34	0.62
44:LC:175:PRO:HD2	44:LC:176:GLN:H	1.64	0.62
45:LD:167:PHE:CE2	45:LD:233:MET:HG2	2.34	0.62
45:LD:313:ALA:HB3	45:LD:349:ILE:CD1	2.30	0.62
45:LF:68:LEU:HG	45:LF:143:THR:OG1	1.99	0.62
45:LF:286:VAL:N	45:LF:287:PRO:HD2	2.14	0.62
44:LG:315:CYS:O	44:LG:351:PHE:HA	1.99	0.62
45:LJ:145:SER:O	45:LJ:149:THR:OG1	2.09	0.62
45:LJ:355:ASP:O	45:LJ:356:ILE:HD13	1.99	0.62
45:LL:12:CYS:HB2	48:LL:501:GDP:C8	2.34	0.62
45:LN:139:LEU:HD22	45:LN:188:SER:CB	2.30	0.62
45:MB:269:GLY:HA2	45:MB:300:MET:SD	2.39	0.62
44:MC:265:ILE:HD12	44:MC:432:TYR:CE1	2.33	0.62
44:ME:224:TYR:CD1	44:ME:227:LEU:HD12	2.33	0.62
44:ME:329:ASN:OD1	44:ME:330:ALA:N	2.32	0.62
45:MF:86:ARG:HB3	45:MF:89:ASN:OD1	1.99	0.62
45:MH:12:CYS:O	45:MH:16:ILE:HG12	1.99	0.62
44:MI:52:PHE:CZ	44:MI:239:THR:HG21	2.34	0.62
44:MI:296:PHE:CE2	44:MI:335:ILE:HG21	2.34	0.62
44:MI:316:SER:HB2	44:MI:352:LYS:HB3	1.81	0.62
44:MM:372:MET:HG3	44:MM:373:ARG:HD3	1.81	0.62
45:MN:54:ALA:HB2	45:MN:86:ARG:HH12	1.65	0.62
45:MN:145:SER:HB2	45:MN:188:SER:HB3	1.81	0.62
45:MN:170:VAL:CG1	45:MN:171:PRO:HD2	2.28	0.62
45:NB:10:GLY:O	45:NB:13:GLY:N	2.31	0.62
44:NC:179:THR:HG21	46:NC:501:GTP:H3'	1.81	0.62
44:NC:275:ILE:HG23	44:NC:368:LEU:CD1	2.29	0.62
45:ND:249:ASP:OD1	45:ND:252:LYS:HB2	1.98	0.62
44:NE:332:ILE:HD12	44:NE:351:PHE:HE2	1.65	0.62
44:NG:147:SER:OG	44:NG:190:SER:OG	2.17	0.62
44:NG:313:MET:CE	44:NG:344:VAL:HG11	2.28	0.62
44:NG:414:GLU:CD	44:NG:416:GLY:H	2.03	0.62
44:NI:53:PHE:CE2	44:NI:63:PRO:HG3	2.34	0.62
44:NI:274:PRO:HG3	44:NI:286:LEU:CD2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:217:LEU:HD12	45:NJ:217:LEU:O	1.98	0.62
44:NM:25:CYS:HB3	44:NM:30:ILE:HB	1.82	0.62
44:NM:210:TYR:HA	44:NM:213:CYS:HB2	1.79	0.62
44:NM:321:GLY:O	44:NM:357:TYR:HD1	1.83	0.62
44:OA:371:VAL:HG12	44:OA:372:MET:N	2.14	0.62
44:OG:1:MET:O	44:OG:131:GLY:HA3	1.99	0.62
44:OG:390:ARG:HG3	44:OG:391:LEU:HD12	1.80	0.62
45:OH:235:GLY:HA2	45:OH:318:ARG:HH21	1.65	0.62
44:OM:217:LEU:HD12	44:OM:367:ASP:HB3	1.82	0.62
44:PA:181:VAL:HG23	44:PA:182:VAL:HG13	1.80	0.62
44:PA:377:MET:O	44:PA:378:ILE:HD13	1.99	0.62
45:PB:21:TRP:HA	45:PB:24:ILE:CG2	2.28	0.62
44:PC:11:GLN:O	44:PC:15:GLN:N	2.26	0.62
44:PC:271:SER:HA	44:PC:302:MET:CE	2.29	0.62
44:PC:404:PHE:CD1	45:PD:259:PRO:HA	2.35	0.62
44:PE:242:LEU:HD11	44:PE:252:ILE:CD1	2.29	0.62
45:PF:313:ALA:O	45:PF:350:LYS:N	2.24	0.62
44:PG:347:CYS:HA	45:PJ:388:MET:CE	2.27	0.62
44:PG:407:TRP:HZ3	45:PH:255:VAL:HA	1.64	0.62
45:PJ:97:ALA:O	45:PJ:103:LYS:HD2	1.99	0.62
45:PJ:121:ARG:NH2	45:PJ:158:GLU:OE2	2.30	0.62
44:PK:224:TYR:HB3	46:PK:501:GTP:O6	1.99	0.62
44:PM:87:PHE:HB3	44:PM:91:GLN:HE21	1.64	0.62
45:PN:134:GLN:HA	45:PN:165:GLU:HB2	1.81	0.62
45:QH:7:ILE:HB	45:QH:135:ILE:CD1	2.28	0.62
45:QH:22:GLU:HG2	45:QH:81:PHE:CD1	2.34	0.62
44:QI:11:GLN:HG3	44:QI:74:VAL:CG1	2.23	0.62
45:QL:256:ASN:ND2	45:QL:350:LYS:HG2	2.14	0.62
45:QN:174:LYS:HB3	45:QN:205:GLU:OE1	1.99	0.62
44:RA:2:ARG:HH21	44:RA:242:LEU:CA	2.12	0.62
45:RB:259:PRO:HA	44:RC:404:PHE:CZ	2.33	0.62
45:RD:204:ASN:HA	45:RD:207:LEU:HD12	1.81	0.62
44:RE:278:ALA:CA	44:RE:369:ALA:HB2	2.30	0.62
44:RG:311:LYS:H	44:RG:382:THR:HG1	1.46	0.62
45:RH:231:ALA:HB1	45:RH:270:PHE:CZ	2.35	0.62
45:RJ:134:GLN:HA	45:RJ:165:GLU:HB2	1.80	0.62
44:RK:119:LEU:HD21	44:RK:156:ARG:HD2	1.81	0.62
44:RK:175:PRO:HB3	44:RK:390:ARG:NE	2.13	0.62
45:RL:246:LEU:HD21	46:RM:501:GTP:H5'	1.81	0.62
45:RN:47:ILE:HD12	45:RN:59:TYR:HE2	1.63	0.62
45:SF:211:CYS:HA	45:SF:215:LEU:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:213:CYS:SG	44:SG:217:LEU:HD12	2.39	0.62
45:SH:309:ARG:HH12	45:SH:342:VAL:HG23	1.64	0.62
45:SL:169:VAL:O	45:SL:169:VAL:HG23	2.00	0.62
44:SM:316:SER:HB2	44:SM:352:LYS:HE3	1.81	0.62
44:SM:439:THR:HG21	45:SN:390:ARG:CD	2.30	0.62
44:TA:167:LEU:HG	44:TA:200:VAL:CB	2.30	0.62
45:TD:97:ALA:CB	45:TD:103:LYS:HB3	2.30	0.62
45:TD:268:ILE:CG2	45:TD:368:VAL:HG22	2.27	0.62
44:TG:115:VAL:O	44:TG:119:LEU:HD23	1.99	0.62
44:TG:172:TYR:CE2	44:TG:203:MET:HG3	2.34	0.62
45:TH:257:LEU:HD21	45:TH:314:SER:CB	2.29	0.62
45:TH:257:LEU:HD21	45:TH:314:SER:HB3	1.79	0.62
45:TJ:3:GLU:CG	45:TJ:127:CYS:HB2	2.30	0.62
44:TK:201:ALA:N	44:TK:266:HIS:O	2.26	0.62
45:TL:212:PHE:O	45:TL:216:LYS:HA	1.99	0.62
44:TM:289:ALA:O	44:TM:292:THR:HG22	2.00	0.62
45:TN:293:MET:HG3	45:TN:367:PHE:HB2	1.81	0.62
44:UA:6:SER:HA	44:UA:136:LEU:O	1.98	0.62
44:UA:28:HIS:NE2	44:UA:243:ARG:HD2	2.14	0.62
44:UC:317:MET:HA	44:UC:377:MET:HA	1.81	0.62
45:UD:117:LEU:O	45:UD:121:ARG:NH1	2.32	0.62
45:UD:308:GLY:N	45:UD:373:ALA:HB2	2.14	0.62
45:UF:318:ARG:HD3	45:UF:358:PRO:CD	2.28	0.62
44:UG:402:ARG:O	44:UG:405:VAL:HG22	1.99	0.62
45:UH:73:MET:O	45:UH:76:VAL:HG12	1.99	0.62
45:UJ:46:ARG:HB3	45:UJ:49:VAL:HG13	1.82	0.62
44:VA:145:THR:HG22	46:VA:501:GTP:O3G	1.98	0.62
44:VC:88:HIS:ND1	44:VC:89:PRO:HD2	2.14	0.62
45:VD:66:MET:SD	45:VD:116:VAL:HG21	2.40	0.62
45:VD:267:MET:CE	45:VD:301:CYS:HB3	2.28	0.62
44:VE:257:THR:HG21	45:VH:98:GLY:O	1.99	0.62
44:VE:295:ALA:HB1	44:VE:377:MET:SD	2.40	0.62
45:VF:237:THR:HG23	45:VF:241:ARG:NH2	2.14	0.62
44:VI:287:SER:HA	44:VI:373:ARG:NH2	2.14	0.62
44:VK:56:THR:O	44:WK:285:GLN:HA	1.98	0.62
44:VK:286:LEU:N	44:VK:290:GLU:OE2	2.31	0.62
45:VL:204:ASN:OD1	45:VL:205:GLU:N	2.33	0.62
45:VL:372:THR:HA	45:VL:422:TYR:CE2	2.28	0.62
44:VM:27:GLU:OE2	44:VM:320:ARG:NH2	2.32	0.62
44:VM:390:ARG:O	44:VM:394:LYS:N	2.27	0.62
45:WB:114:ASP:OD1	45:WB:115:SER:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:184:ASN:CA	45:WB:187:LEU:HB2	2.25	0.62
45:WB:284:LEU:HD12	45:WB:362:LYS:HZ3	1.64	0.62
44:WC:213:CYS:SG	44:WC:217:LEU:HD12	2.39	0.62
44:WE:212:ILE:HD13	44:WE:215:ARG:HH22	1.64	0.62
44:WI:203:MET:HE3	44:WI:204:LEU:H	1.65	0.62
44:WI:259:LEU:HD21	44:WI:316:SER:H	1.63	0.62
44:WI:263:PRO:HD3	45:WL:396:HIS:CE1	2.34	0.62
44:WK:14:ILE:CD1	44:WK:69:ASP:HB2	2.28	0.62
45:WL:114:ASP:OD1	45:WL:115:SER:N	2.33	0.62
45:WL:149:THR:O	45:WL:152:ILE:HG22	2.00	0.62
44:WM:77:GLU:O	44:WM:81:GLY:N	2.31	0.62
45:WN:185:ALA:O	45:WN:189:VAL:HG23	1.99	0.62
45:WN:304:ASP:OD1	45:WN:306:ARG:HG2	1.99	0.62
1:6H:263:TYR:OH	44:FE:19:ALA:CA	2.41	0.62
15:0V:101:ILE:HD11	44:LM:416:GLY:HA2	1.81	0.62
22:1L:479:VAL:O	45:CF:280:GLN:NE2	2.31	0.62
31:2H:193:LEU:HB3	45:AD:357:PRO:HG2	1.81	0.62
26:2R:226:PRO:O	45:BJ:78:ALA:HB1	2.00	0.62
22:3L:42:LYS:NZ	45:BB:42:LEU:CD1	2.55	0.62
35:4R:436:GLU:HB2	45:FF:280:GLN:OE1	1.99	0.62
39:5J:95:LEU:HB3	39:5J:98:LEU:HB2	1.80	0.62
39:5K:41:ILE:HG23	39:5K:44:ARG:NH2	2.15	0.62
35:5R:314:ILE:O	35:5R:314:ILE:HG13	1.98	0.62
41:6G:268:VAL:CG1	44:VA:338:LYS:HB3	2.28	0.62
11:6Q:95:ASP:HB3	11:6Q:146:THR:CG2	2.30	0.62
44:AA:332:ILE:HD12	44:AA:351:PHE:HD2	1.64	0.62
44:AC:260:VAL:O	45:AF:397:TRP:HH2	1.83	0.62
44:AE:280:LYS:O	44:AE:280:LYS:HG2	2.00	0.62
45:AF:299:MET:HG3	45:AF:305:PRO:HG3	1.82	0.62
44:AG:171:ILE:CD1	44:AG:204:LEU:HB2	2.29	0.62
45:AH:238:CYS:HB3	45:AH:318:ARG:NH2	2.13	0.62
44:BA:6:SER:OG	44:BA:65:ALA:HB2	1.99	0.62
45:BD:319:GLY:HA2	45:BD:357:PRO:HD3	1.81	0.62
44:BE:259:LEU:HD11	44:BE:316:SER:HB3	1.80	0.62
45:BH:372:THR:HA	45:BH:422:TYR:CE1	2.33	0.62
44:BI:320:ARG:HD3	44:BI:360:PRO:HG3	1.81	0.62
44:BI:322:ASP:OD1	44:BI:373:ARG:NH1	2.33	0.62
45:BL:399:THR:HA	45:BL:403:MET:O	1.99	0.62
45:BN:245:GLN:C	45:BN:246:LEU:HD12	2.20	0.62
45:BN:266:PHE:HE1	45:BN:370:ASN:HD22	1.47	0.62
45:CB:150:LEU:CD2	45:CB:154:LYS:HG3	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:214:ARG:HA	44:CC:219:ILE:O	1.99	0.62
45:CD:52:ASN:HB3	45:CD:60:VAL:CG1	2.29	0.62
45:CD:107:THR:CG2	45:CD:401:GLU:HB3	2.25	0.62
45:CD:207:LEU:HD13	45:CD:225:LEU:CB	2.24	0.62
45:CD:233:MET:O	45:CD:236:VAL:HG12	2.00	0.62
45:CD:430:ALA:HB1	44:CE:397:LEU:HD22	1.81	0.62
45:CF:101:TRP:HB3	45:CF:398:TYR:HE1	1.63	0.62
44:CG:23:LEU:HD11	44:CG:233:GLN:OE1	1.99	0.62
45:CH:246:LEU:HA	44:CI:11:GLN:OE1	2.00	0.62
44:CI:295:ALA:HB1	44:CI:377:MET:HE1	1.80	0.62
44:CK:265:ILE:HG23	44:CK:432:TYR:CE1	2.35	0.62
44:CM:175:PRO:HG2	44:CM:304:LYS:HG2	1.80	0.62
44:DA:91:GLN:HA	44:DA:121:ARG:CD	2.29	0.62
45:DB:324:LYS:HD2	44:DC:210:TYR:CD1	2.34	0.62
44:DG:329:ASN:HB3	45:DH:175:VAL:HG11	1.81	0.62
45:DH:334:GLN:HG3	45:DH:341:PHE:CD2	2.34	0.62
45:DJ:58:ARG:HD2	45:EJ:280:GLN:HE22	1.64	0.62
45:DN:51:TYR:HE1	45:DN:61:PRO:HG3	1.63	0.62
45:DN:337:ASN:HB3	45:DN:340:TYR:HD2	1.63	0.62
44:EA:383:ALA:O	44:EA:386:GLU:HG2	2.00	0.62
45:EB:237:THR:CG2	45:EB:241:ARG:HE	2.10	0.62
45:EB:347:ASN:OD1	44:EC:394:LYS:NZ	2.32	0.62
44:EC:200:VAL:HG13	44:EC:268:MET:SD	2.40	0.62
45:ED:72:THR:HG23	45:ED:73:MET:N	2.14	0.62
45:ED:262:ARG:NH1	45:ED:421:GLU:OE1	2.32	0.62
44:EG:276:ILE:HD13	44:EG:281:ALA:HA	1.80	0.62
45:EH:219:THR:O	45:EH:219:THR:HG23	1.99	0.62
45:EH:337:ASN:HB3	45:EH:340:TYR:CD2	2.35	0.62
44:EI:166:LYS:N	44:EI:199:ASP:OD2	2.30	0.62
44:EM:141:VAL:HG11	44:EM:172:TYR:HD1	1.63	0.62
44:FA:183:GLU:N	44:FA:184:PRO:HD2	2.14	0.62
44:FE:269:LEU:H	44:FE:269:LEU:HD23	1.63	0.62
44:FG:311:LYS:HD2	44:FG:342:GLN:NE2	2.15	0.62
45:FH:334:GLN:HG3	45:FH:341:PHE:CE1	2.35	0.62
44:FI:102:ASN:O	44:FI:105:ARG:N	2.33	0.62
45:FJ:36:TYR:CE1	45:FJ:44:LEU:HG	2.34	0.62
44:FK:6:SER:OG	44:FK:64:ARG:O	2.17	0.62
45:FL:12:CYS:O	45:FL:16:ILE:HG12	1.98	0.62
45:FN:251:ARG:HA	45:FN:254:ALA:HB3	1.80	0.62
44:GA:265:ILE:HD12	44:GA:435:VAL:HG21	1.79	0.62
45:GB:152:ILE:HD12	45:GB:164:MET:HE2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GC:141:VAL:CG1	44:GC:172:TYR:HA	2.28	0.62
44:GC:200:VAL:HG13	44:GC:268:MET:SD	2.38	0.62
45:GD:143:THR:O	45:GD:147:MET:HG2	1.98	0.62
45:GD:399:THR:HA	45:GD:403:MET:O	1.98	0.62
44:GG:73:THR:HA	45:GH:46:ARG:HH2	1.64	0.62
44:GG:276:ILE:HG13	44:GG:281:ALA:HA	1.81	0.62
45:GH:193:VAL:HG22	45:GH:264:HIS:CE1	2.34	0.62
44:GI:276:ILE:HG13	44:GI:276:ILE:O	1.97	0.62
44:GK:147:SER:O	44:GK:151:SER:N	2.27	0.62
44:GM:404:PHE:CE1	45:GN:259:PRO:HA	2.34	0.62
45:GN:105:HIS:CD2	45:GN:150:LEU:HB2	2.33	0.62
45:GN:216:LYS:HG3	45:GN:275:SER:HB3	1.80	0.62
45:HB:67:ASP:O	45:HB:92:PHE:HA	1.98	0.62
45:HD:316:LEU:CD1	45:HD:352:SER:HB2	2.28	0.62
44:HK:200:VAL:HG13	44:HK:268:MET:SD	2.39	0.62
45:HL:314:SER:HB2	45:HL:350:LYS:HB3	1.81	0.62
45:HL:316:LEU:HD13	45:HL:352:SER:CB	2.29	0.62
44:HM:88:HIS:CE1	44:HM:90:GLU:HG2	2.34	0.62
44:HM:101:ASN:HD22	45:HN:252:LYS:HD2	1.65	0.62
45:HN:147:MET:O	45:HN:150:LEU:HG	2.00	0.62
45:HN:386:THR:N	45:HN:387:ALA:HA	2.15	0.62
44:IA:392:ASP:O	44:IA:395:PHE:N	2.31	0.62
45:IB:127:CYS:SG	45:IB:130:LEU:HD13	2.39	0.62
45:IB:197:ASP:O	45:IB:198:GLU:HG3	1.99	0.62
44:IC:70:LEU:HD13	44:IC:110:ILE:HD11	1.81	0.62
44:IE:118:CYS:O	44:IE:122:ILE:HG12	1.98	0.62
45:IF:372:THR:HA	45:IF:422:TYR:HE2	1.63	0.62
44:IG:312:TYR:O	44:IG:344:VAL:HG13	2.00	0.62
44:IG:349:THR:OG1	45:IJ:176:SER:OG	2.01	0.62
44:IK:210:TYR:CE1	44:IK:227:LEU:HD11	2.34	0.62
44:IK:384:ILE:O	44:IK:387:VAL:HG22	1.99	0.62
44:IM:88:HIS:HE1	44:IM:90:GLU:HG2	1.64	0.62
44:JA:72:PRO:HG3	44:JA:95:GLY:O	1.99	0.62
44:JC:256:GLN:HB2	45:JF:397:TRP:CH2	2.33	0.62
44:JE:98:ASP:OD1	44:JE:99:ALA:N	2.32	0.62
44:JG:88:HIS:O	44:JG:91:GLN:HG2	2.00	0.62
45:JH:161:ASP:OD2	45:JH:162:ARG:NH1	2.31	0.62
44:JI:47:ASP:HB2	44:JI:50:ASN:ND2	2.15	0.62
45:JJ:178:THR:HB	45:JJ:181:GLU:CG	2.26	0.62
45:JN:161:ASP:OD2	45:JN:162:ARG:NH1	2.32	0.62
45:JN:263:LEU:HD22	45:JN:422:TYR:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:211:CYS:HA	45:KB:215:LEU:HB2	1.81	0.62
45:KB:334:GLN:HE22	45:KB:347:ASN:N	1.96	0.62
44:KC:76:ASP:OD2	45:KD:46:ARG:NH2	2.32	0.62
44:KC:262:TYR:HB3	44:KC:263:PRO:HD2	1.81	0.62
44:KE:17:GLY:HA2	44:KE:20:CYS:SG	2.39	0.62
44:KG:268:MET:HB3	44:KG:380:ASN:OD1	1.98	0.62
44:KI:326:LYS:HE2	44:KI:326:LYS:HA	1.81	0.62
45:KJ:101:TRP:CE3	45:KJ:187:LEU:HD13	2.35	0.62
45:KJ:332:ASN:O	45:KJ:336:LYS:HG2	1.98	0.62
44:KK:24:PHE:O	44:KK:27:GLU:HG2	1.99	0.62
44:KM:20:CYS:HA	44:KM:232:ALA:CB	2.29	0.62
45:LD:187:LEU:HD11	45:LD:408:PHE:CE1	2.33	0.62
44:LE:320:ARG:HD3	44:LE:360:PRO:HG3	1.81	0.62
45:LF:372:THR:HA	45:LF:422:TYR:CE2	2.34	0.62
44:LI:56:THR:O	44:MI:285:GLN:HA	1.99	0.62
44:LI:340:THR:HG23	44:LI:341:ILE:HG12	1.81	0.62
45:LJ:203:ASP:OD2	45:LJ:302:ALA:N	2.31	0.62
44:LM:119:LEU:HD11	44:LM:156:ARG:HG2	1.82	0.62
45:LN:49:VAL:HG11	45:LN:241:ARG:HD3	1.81	0.62
45:MB:238:CYS:O	45:MB:241:ARG:HG2	1.99	0.62
44:MC:377:MET:O	44:MC:378:ILE:HD13	1.98	0.62
44:MG:320:ARG:N	44:MG:374:ALA:O	2.33	0.62
44:MI:292:THR:HG21	44:MI:331:SER:HB3	1.80	0.62
45:MJ:11:GLN:HB2	45:MJ:72:THR:HG21	1.81	0.62
44:MK:11:GLN:NE2	45:ML:245:GLN:O	2.32	0.62
44:MK:224:TYR:HB3	46:MK:501:GTP:O6	1.99	0.62
45:ML:174:LYS:HE3	45:ML:175:VAL:HG22	1.79	0.62
45:ML:284:LEU:HD12	45:ML:362:LYS:NZ	2.14	0.62
45:ML:396:HIS:HA	45:ML:399:THR:HG22	1.79	0.62
44:MM:96:LYS:HD3	45:MN:129:CYS:SG	2.40	0.62
45:MN:164:MET:O	45:MN:197:ASP:HB2	2.00	0.62
44:NE:105:ARG:NH1	45:NF:251:ARG:HE	1.97	0.62
44:NG:222:PRO:HD2	45:NH:324:LYS:HZ2	1.64	0.62
44:NG:417:GLU:N	44:NG:417:GLU:OE1	2.32	0.62
44:NI:181:VAL:HG12	45:NJ:256:ASN:OD1	1.98	0.62
44:NI:326:LYS:HE2	45:NL:219:THR:HG22	1.81	0.62
44:NI:326:LYS:HE2	45:NL:219:THR:HA	1.80	0.62
44:NM:71:GLU:OE1	44:NM:73:THR:HB	1.99	0.62
44:NM:161:TYR:HB3	44:NM:164:LYS:HG2	1.81	0.62
44:OG:352:LYS:HD2	45:OJ:177:ASP:O	1.99	0.62
44:OK:79:ARG:HD3	44:OK:92:LEU:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:201:ALA:N	44:OK:266:HIS:O	2.32	0.62
45:OL:173:PRO:CG	45:OL:380:ARG:HD2	2.28	0.62
44:OM:398:MET:HG2	45:ON:345:ILE:HG22	1.81	0.62
44:PA:252:ILE:HA	44:PA:255:PHE:CE2	2.35	0.62
44:PC:212:ILE:HD11	44:PC:299:ALA:O	1.99	0.62
44:PE:224:TYR:CZ	45:PF:323:THR:HG21	2.33	0.62
45:PH:146:GLY:O	45:PH:150:LEU:HD23	1.98	0.62
45:PH:378:PHE:HA	45:PH:381:VAL:HG12	1.81	0.62
45:PJ:73:MET:O	45:PJ:76:VAL:HG12	1.99	0.62
44:PK:89:PRO:HD3	44:QK:280:LYS:NZ	2.14	0.62
44:PM:311:LYS:CD	44:PM:342:GLN:HG3	2.29	0.62
45:QB:226:ASN:O	45:QB:229:VAL:HG12	1.99	0.62
44:QC:252:ILE:HA	44:QC:255:PHE:CE2	2.34	0.62
44:QC:385:ALA:HA	44:QC:388:PHE:HD2	1.65	0.62
44:QC:428:LEU:HG	44:QC:432:TYR:HE1	1.64	0.62
45:QF:156:ARG:NH1	45:QF:162:ARG:O	2.32	0.62
45:QF:271:ALA:HB2	45:QF:298:ASN:HD21	1.64	0.62
45:QH:131:GLN:NE2	45:QH:249:ASP:HB2	2.14	0.62
45:QJ:133:PHE:O	45:QJ:165:GLU:N	2.31	0.62
44:QK:137:VAL:HG12	44:QK:167:LEU:O	1.99	0.62
44:QK:296:PHE:HB3	44:QK:341:ILE:HD13	1.80	0.62
45:QL:65:LEU:HD21	45:QL:85:PHE:CD2	2.34	0.62
45:QL:274:THR:HB	45:QL:282:ARG:HH11	1.64	0.62
45:QL:285:THR:OG1	45:QL:287:PRO:HD2	1.99	0.62
45:QN:189:VAL:HA	45:QN:192:LEU:HB3	1.80	0.62
45:RB:112:LEU:O	45:RB:112:LEU:HD23	1.98	0.62
44:RC:68:LEU:HD11	44:RC:118:CYS:SG	2.39	0.62
45:RF:77:ARG:NH2	45:RF:83:GLN:HA	2.15	0.62
44:RG:274:PRO:HB3	44:RG:286:LEU:HG	1.80	0.62
45:RJ:4:ILE:HG23	45:RJ:131:GLN:HB3	1.81	0.62
44:RK:350:GLY:C	45:RL:179:VAL:HG12	2.19	0.62
45:RL:378:PHE:CB	45:RL:419:VAL:HG22	2.28	0.62
44:RM:238:LEU:HD21	44:RM:255:PHE:CE2	2.35	0.62
45:RN:18:ALA:O	45:RN:22:GLU:HG3	2.00	0.62
44:SA:260:VAL:HG13	44:SA:265:ILE:O	2.00	0.62
45:SB:399:THR:HA	45:SB:403:MET:O	1.99	0.62
44:SE:351:PHE:N	45:SF:179:VAL:HG12	2.14	0.62
45:SF:213:ARG:CZ	45:SF:298:ASN:HA	2.30	0.62
44:SG:313:MET:HE3	44:SG:380:ASN:HB3	1.80	0.62
44:SI:16:VAL:HA	44:SI:228:ASN:ND2	2.13	0.62
44:SI:20:CYS:HA	44:SI:232:ALA:HB1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:45:GLU:O	45:SJ:46:ARG:HD3	2.00	0.62
44:SK:88:HIS:CE1	44:SK:90:GLU:HG2	2.34	0.62
45:SL:5:VAL:O	45:SL:134:GLN:HG2	1.98	0.62
44:SM:223:THR:O	44:SM:225:THR:N	2.32	0.62
44:SM:260:VAL:HG13	44:SM:265:ILE:O	1.99	0.62
44:SM:284:GLU:OE2	44:SM:285:GLN:HG2	2.00	0.62
44:TA:97:GLU:HG2	44:TA:105:ARG:HH22	1.64	0.62
44:TA:417:GLU:O	44:TA:420:GLU:HG2	2.00	0.62
45:TB:3:GLU:HB3	45:TB:49:VAL:HA	1.80	0.62
45:TB:304:ASP:OD1	45:TB:305:PRO:HD2	1.99	0.62
44:TC:329:ASN:O	44:TC:332:ILE:HG22	1.99	0.62
45:TH:202:ILE:HG12	45:TH:300:MET:CE	2.28	0.62
44:TI:87:PHE:HB3	44:TI:91:GLN:NE2	2.14	0.62
44:TI:325:PRO:HG3	44:TI:355:ILE:HD13	1.82	0.62
45:TJ:189:VAL:HG11	45:TJ:415:MET:SD	2.39	0.62
45:TL:12:CYS:HB2	48:TL:501:GDP:C1'	2.28	0.62
44:UA:315:CYS:O	44:UA:351:PHE:HA	1.98	0.62
45:UB:110:ALA:O	45:UB:113:ILE:HG22	1.99	0.62
45:UB:142:GLY:O	45:UB:146:GLY:N	2.33	0.62
44:UC:347:CYS:HA	45:UD:388:MET:HE1	1.80	0.62
44:UE:6:SER:O	44:UE:7:ILE:HD13	1.98	0.62
44:UE:13:GLY:HA2	44:UE:16:VAL:HG12	1.81	0.62
44:UE:88:HIS:HE1	44:UE:90:GLU:HG2	1.63	0.62
44:UE:270:SER:CB	44:UE:378:ILE:HD13	2.30	0.62
45:UF:112:LEU:HD23	45:UF:116:VAL:HG13	1.80	0.62
45:UF:248:SER:CB	45:UF:252:LYS:HD2	2.29	0.62
45:UH:51:TYR:O	45:UH:62:ARG:NH2	2.31	0.62
45:UH:166:THR:HG21	45:UH:196:ALA:HB1	1.80	0.62
44:UI:143:GLY:HA3	46:UI:501:GTP:O5'	1.99	0.62
45:UJ:134:GLN:O	45:UJ:134:GLN:HG3	1.97	0.62
45:UJ:233:MET:O	45:UJ:236:VAL:HG12	1.98	0.62
44:UK:201:ALA:O	44:UK:267:PHE:HA	1.98	0.62
44:UK:386:GLU:O	44:UK:390:ARG:HG2	1.98	0.62
44:VA:195:LEU:O	44:VA:266:HIS:NE2	2.31	0.62
45:VD:200:MET:SD	45:VD:268:ILE:HG21	2.40	0.62
44:VI:340:THR:HG23	44:VI:341:ILE:HG12	1.80	0.62
44:VM:232:ALA:O	44:VM:235:ILE:HG22	1.98	0.62
45:VN:143:THR:O	45:VN:147:MET:HB3	1.99	0.62
45:VN:251:ARG:O	45:VN:255:VAL:HG23	1.99	0.62
44:WA:344:VAL:HG21	44:WA:346:TRP:NE1	2.15	0.62
44:WC:269:LEU:HD22	44:WC:384:ILE:CD1	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:169:VAL:HA	45:WD:202:ILE:HB	1.80	0.62
44:WE:320:ARG:NE	44:WE:360:PRO:HG3	2.14	0.62
44:WE:361:THR:HG22	44:WE:362:VAL:H	1.64	0.62
44:WG:206:ASN:HA	44:WG:209:ILE:HD12	1.80	0.62
45:WH:198:GLU:HA	45:WH:264:HIS:CB	2.27	0.62
44:WI:146:GLY:O	44:WI:150:GLY:N	2.23	0.62
45:WJ:318:ARG:HD3	45:WJ:358:PRO:HG3	1.81	0.62
44:WK:230:LEU:HD11	44:WK:275:ILE:HD13	1.82	0.62
44:WM:276:ILE:HG23	44:WM:281:ALA:HB2	1.82	0.62
45:WN:230:SER:O	45:WN:234:SER:N	2.27	0.62
45:WN:304:ASP:HB3	45:WN:307:HIS:CG	2.33	0.62
1:6H:295:GLN:CG	45:FH:362:LYS:HA	2.30	0.62
14:0U:447:GLU:HG2	44:WA:279:GLU:OE1	2.00	0.62
26:1R:233:LYS:HE3	45:BF:74:ASP:OD2	1.99	0.62
2:3A:69:ASN:HD21	45:AN:363:MET:CE	2.07	0.62
22:3L:173:GLN:HE22	44:CA:279:GLU:CG	2.08	0.62
31:4H:196:SER:HB3	45:AL:40:SER:HA	1.82	0.62
36:4S:206:TYR:OH	45:WD:123:GLU:HA	1.97	0.62
37:5D:52:VAL:HA	44:KK:437:ILE:HD12	1.81	0.62
37:5D:54:ARG:HD2	44:KK:438:GLU:N	2.13	0.62
38:5F:127:PRO:HA	44:OE:372:MET:CE	2.29	0.62
38:5H:33:TYR:CE1	44:NK:89:PRO:HG2	2.34	0.62
35:5R:442:PHE:CE1	35:5R:457:GLU:HG2	2.28	0.62
35:5R:462:ASN:N	45:FJ:218:THR:OG1	2.32	0.62
41:6G:276:PRO:CD	41:6G:284:LYS:HD3	2.29	0.62
11:6Q:106:SER:C	11:6Q:123:MET:HG2	2.19	0.62
35:6R:388:TYR:CE2	35:6R:390:GLY:HA2	2.34	0.62
44:AA:265:ILE:HD12	44:AA:432:TYR:CZ	2.33	0.62
44:AC:76:ASP:OD1	44:AC:79:ARG:NH2	2.32	0.62
44:AC:271:SER:HB2	44:AC:377:MET:SD	2.38	0.62
45:AD:24:ILE:HD11	45:AD:241:ARG:NH2	2.14	0.62
45:AD:139:LEU:HD12	45:AD:188:SER:OG	2.00	0.62
45:AJ:280:GLN:HE22	45:MJ:58:ARG:NH2	1.94	0.62
44:BA:257:THR:HG22	45:BD:397:TRP:CE2	2.34	0.62
44:BA:407:TRP:CH2	45:BB:255:VAL:N	2.67	0.62
45:BB:178:THR:HB	45:BB:181:GLU:HG3	1.81	0.62
44:BC:73:THR:O	44:BC:77:GLU:HG2	1.99	0.62
45:BD:103:LYS:HA	45:BD:107:THR:CG2	2.28	0.62
44:BE:433:GLU:O	44:BE:437:ILE:HG23	1.99	0.62
45:BF:5:VAL:HG12	45:BF:62:ARG:HD2	1.81	0.62
45:BF:147:MET:O	45:BF:150:LEU:HG	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:165:GLU:OE2	45:BF:250:LEU:HD22	1.99	0.62
44:BI:105:ARG:NH1	45:BJ:251:ARG:HD3	2.14	0.62
45:BL:193:VAL:HG23	45:BL:264:HIS:HE1	1.64	0.62
45:BN:274:THR:HG21	45:BN:279:GLN:HG3	1.81	0.62
45:BN:301:CYS:HB3	45:BN:377:MET:CE	2.29	0.62
45:CB:49:VAL:HG21	45:CB:241:ARG:CG	2.28	0.62
44:CC:76:ASP:OD1	44:CC:79:ARG:NH2	2.32	0.62
45:CD:249:ASP:OD2	44:CE:98:ASP:HB3	1.99	0.62
45:CD:404:ASP:OD1	45:CD:407:GLU:HG3	1.98	0.62
45:CF:383:GLU:O	45:CF:386:THR:HG22	2.00	0.62
44:CG:260:VAL:O	44:CG:260:VAL:HG13	1.98	0.62
44:CI:247:ALA:HB2	44:CI:357:TYR:OH	1.99	0.62
45:CL:45:GLU:OE1	45:CL:46:ARG:HG2	1.99	0.62
45:CL:376:GLU:HA	45:CL:379:LYS:HZ3	1.64	0.62
45:CN:107:THR:HG23	45:CN:108:GLU:H	1.64	0.62
45:DB:86:ARG:HG3	45:DB:89:ASN:H	1.65	0.62
45:DB:295:ASP:OD1	45:DB:296:ALA:N	2.33	0.62
45:DB:423:GLN:NE2	45:DB:424:GLN:HG3	2.15	0.62
44:DC:264:ARG:HE	44:DC:428:LEU:HA	1.65	0.62
45:DD:97:ALA:HB3	45:DD:143:THR:HB	1.81	0.62
44:DE:270:SER:C	44:DE:302:MET:HB2	2.19	0.62
44:DG:278:ALA:HA	44:DG:369:ALA:HB2	1.80	0.62
44:DG:324:VAL:HG12	44:DG:326:LYS:HG3	1.82	0.62
44:DI:108:TYR:HA	44:DI:112:LYS:NZ	2.13	0.62
45:DJ:206:ALA:HB1	45:DJ:300:MET:HA	1.81	0.62
45:DJ:296:ALA:CA	45:DJ:299:MET:HE1	2.28	0.62
45:DL:124:ALA:HB1	45:DL:130:LEU:HD22	1.81	0.62
45:DN:105:HIS:CE1	45:DN:150:LEU:HD12	2.34	0.62
44:EA:141:VAL:HG11	44:EA:172:TYR:HA	1.81	0.62
45:ED:72:THR:O	45:ED:75:SER:OG	2.13	0.62
45:ED:268:ILE:HG21	45:ED:368:VAL:HG22	1.82	0.62
44:EE:285:GLN:O	44:EE:287:SER:HA	1.99	0.62
44:EG:386:GLU:O	44:EG:390:ARG:HG2	1.99	0.62
45:EH:208:TYR:CZ	45:EH:225:LEU:HD11	2.34	0.62
45:EJ:12:CYS:SG	45:EJ:138:SER:HB2	2.40	0.62
45:EL:143:THR:HG23	45:EL:144:GLY:H	1.63	0.62
44:EM:107:HIS:O	44:EM:107:HIS:ND1	2.33	0.62
44:EM:226:ASN:O	44:EM:230:LEU:HD23	1.98	0.62
44:FA:434:GLU:O	44:FA:437:ILE:HG22	1.99	0.62
45:FB:379:LYS:O	45:FB:383:GLU:N	2.33	0.62
44:FC:183:GLU:HG2	44:FC:184:PRO:HD3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:127:CYS:SG	45:FD:130:LEU:HD22	2.39	0.62
44:FE:51:THR:HG21	44:FE:243:ARG:CD	2.29	0.62
44:FG:433:GLU:O	44:FG:437:ILE:HG23	1.99	0.62
44:FI:210:TYR:HB3	45:FJ:324:LYS:HE2	1.82	0.62
44:FK:99:ALA:HB2	44:FK:145:THR:HB	1.81	0.62
45:FL:274:THR:HG21	45:FL:282:ARG:CZ	2.29	0.62
44:FM:55:GLU:HG3	44:FM:57:GLY:H	1.64	0.62
45:FN:377:MET:SD	45:FN:380:ARG:HD2	2.39	0.62
44:GA:181:VAL:HG22	45:GB:256:ASN:CG	2.20	0.62
45:GB:245:GLN:HG2	45:GB:355:ASP:OD1	2.00	0.62
44:GE:1:MET:SD	44:GE:130:THR:HG23	2.38	0.62
45:GF:266:PHE:CE1	45:GF:370:ASN:HB2	2.35	0.62
44:GG:98:ASP:O	44:GG:105:ARG:NH1	2.33	0.62
44:GK:322:ASP:OD2	44:GK:372:MET:HB3	2.00	0.62
45:GL:99:ASN:HA	45:GL:142:GLY:H	1.64	0.62
45:GL:164:MET:O	45:GL:197:ASP:HB2	2.00	0.62
44:HC:100:ALA:O	45:HD:255:VAL:HG21	2.00	0.62
45:HD:65:LEU:HD11	45:HD:85:PHE:CE2	2.34	0.62
45:HD:389:PHE:O	45:HD:392:LYS:HD2	1.99	0.62
44:HE:4:VAL:HG23	44:HE:134:GLY:O	1.98	0.62
44:HE:66:VAL:HG21	44:HE:122:ILE:HD11	1.82	0.62
45:HF:135:ILE:HG13	45:HF:152:ILE:HD11	1.81	0.62
45:HF:221:THR:HG23	45:HF:224:ASP:H	1.64	0.62
45:HH:318:ARG:NH1	45:HH:358:PRO:HG3	2.14	0.62
44:HI:9:VAL:HA	44:HI:68:LEU:O	1.99	0.62
44:HK:9:VAL:HG11	44:HK:153:LEU:HD12	1.82	0.62
44:HK:203:MET:CG	44:HK:384:ILE:HD11	2.29	0.62
45:HL:51:TYR:HE1	45:HL:61:PRO:HG3	1.65	0.62
44:HM:301:MET:SD	44:HM:303:ALA:N	2.72	0.62
45:HN:73:MET:O	45:HN:76:VAL:HG12	1.99	0.62
45:HN:137:HIS:O	45:HN:168:SER:HA	2.00	0.62
45:HN:208:TYR:CD1	45:HN:225:LEU:HD21	2.35	0.62
45:HN:325:GLU:HA	45:HN:328:GLU:CG	2.30	0.62
44:IA:166:LYS:O	44:IA:199:ASP:HB2	2.00	0.62
44:IA:313:MET:HG3	44:IA:346:TRP:CH2	2.35	0.62
45:IB:4:ILE:HG22	45:IB:132:GLY:N	2.14	0.62
45:IF:134:GLN:HA	45:IF:165:GLU:O	2.00	0.62
45:IF:141:GLY:HA2	48:IF:501:GDP:O1A	1.99	0.62
44:IG:407:TRP:HH2	45:IH:254:ALA:HB1	1.63	0.62
44:IG:434:GLU:O	44:IG:437:ILE:HG12	1.99	0.62
45:IH:68:LEU:HD12	45:IH:143:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IL:289:LEU:HD11	45:IL:363:MET:HG2	1.81	0.62
45:IL:392:LYS:HG3	45:IL:395:LEU:CD2	2.29	0.62
44:IM:230:LEU:CD2	44:IM:368:LEU:HD21	2.29	0.62
44:JA:209:ILE:HG12	44:JA:302:MET:HE1	1.81	0.62
45:JB:99:ASN:OD1	45:JB:141:GLY:HA2	1.98	0.62
44:JG:155:GLU:HG2	44:JG:197:HIS:CD2	2.34	0.62
45:JH:131:GLN:HE22	45:JH:250:LEU:HB2	1.63	0.62
45:JH:133:PHE:HB2	45:JH:164:MET:HB2	1.82	0.62
45:JH:200:MET:SD	45:JH:268:ILE:HG21	2.40	0.62
44:JI:230:LEU:HD11	44:JI:275:ILE:HD12	1.81	0.62
45:JJ:314:SER:O	45:JJ:368:VAL:HG22	2.00	0.62
45:JL:326:VAL:O	45:JL:330:MET:HG2	1.99	0.62
44:JM:275:ILE:HG23	44:JM:368:LEU:HD11	1.80	0.62
45:KB:285:THR:CG2	45:KB:287:PRO:HD2	2.19	0.62
44:KC:324:VAL:HG21	45:KF:219:THR:HG23	1.80	0.62
45:KF:3:GLU:CG	45:KF:62:ARG:HH12	2.12	0.62
45:KF:19:LYS:NZ	45:KF:227:HIS:HA	2.13	0.62
45:KH:231:ALA:O	45:KH:234:SER:OG	2.05	0.62
44:KK:27:GLU:OE2	44:KK:243:ARG:NH1	2.33	0.62
44:KK:174:SER:OG	44:KK:177:VAL:HG12	2.00	0.62
45:KL:142:GLY:O	45:KL:146:GLY:N	2.31	0.62
44:KM:5:ILE:HB	44:KM:135:PHE:CD1	2.33	0.62
44:KM:71:GLU:OE1	44:KM:73:THR:HB	1.99	0.62
45:KN:238:CYS:HB2	45:KN:318:ARG:HH21	1.63	0.62
44:LG:406:HIS:HA	44:LG:409:VAL:HG12	1.82	0.62
45:LL:4:ILE:HD11	45:LL:50:TYR:OH	1.99	0.62
44:MA:287:SER:O	44:MA:291:ILE:HG23	1.99	0.62
45:MB:7:ILE:HB	45:MB:135:ILE:CD1	2.30	0.62
45:MF:245:GLN:HG3	45:MF:353:ILE:HG21	1.81	0.62
44:MG:161:TYR:HB3	44:MG:164:LYS:CE	2.30	0.62
45:MH:186:THR:HG21	45:MH:385:PHE:CD1	2.34	0.62
45:MH:248:SER:CB	45:MH:252:LYS:HD2	2.29	0.62
45:MJ:168:SER:O	45:MJ:201:VAL:HA	1.99	0.62
45:MN:97:ALA:HB3	45:MN:143:THR:HB	1.81	0.62
44:NA:325:PRO:HG3	45:ND:222:TYR:CE2	2.35	0.62
44:NA:406:HIS:CE1	45:NB:261:PRO:HD3	2.34	0.62
46:NC:501:GTP:H8	45:ND:246:LEU:HD21	1.64	0.62
45:ND:286:VAL:HA	45:ND:289:LEU:CD1	2.30	0.62
44:NE:259:LEU:HD13	44:NE:268:MET:HE1	1.81	0.62
44:NK:269:LEU:HG	44:NK:301:MET:HE3	1.80	0.62
44:NM:223:THR:O	44:NM:226:ASN:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:272:TYR:HA	44:NM:375:VAL:O	1.99	0.62
45:NN:16:ILE:HG22	45:NN:226:ASN:ND2	2.14	0.62
44:OA:207:GLU:HA	44:OA:210:TYR:CD2	2.27	0.62
44:OA:288:VAL:HA	44:OA:291:ILE:CD1	2.29	0.62
44:OA:314:ALA:N	44:OA:380:ASN:HB3	2.12	0.62
45:OB:423:GLN:NE2	45:OB:427:ASP:OD2	2.33	0.62
44:OC:265:ILE:HG21	44:OC:313:MET:CE	2.30	0.62
45:OD:60:VAL:HG23	45:OD:84:LEU:O	1.99	0.62
45:OF:83:GLN:O	45:PF:281:TYR:OH	2.16	0.62
45:OH:207:LEU:CD1	45:OH:225:LEU:HD23	2.29	0.62
45:OH:290:THR:O	45:OH:293:MET:HG2	1.99	0.62
45:OJ:395:LEU:O	45:OJ:399:THR:HG23	2.00	0.62
45:ON:282:ARG:NH1	45:ON:284:LEU:HD13	2.15	0.62
44:PA:67:PHE:CD2	44:PA:92:LEU:HG	2.35	0.62
45:PB:252:LYS:HG2	45:PB:256:ASN:ND2	2.14	0.62
45:PB:263:LEU:HG	45:PB:422:TYR:CD1	2.34	0.62
44:PC:221:ARG:NH2	45:PD:322:SER:OG	2.32	0.62
44:PC:369:ALA:O	44:PC:371:VAL:HG13	1.99	0.62
45:PD:11:GLN:HB2	45:PD:72:THR:HG21	1.79	0.62
45:PD:382:ALA:HB2	45:PD:415:MET:SD	2.39	0.62
45:PF:139:LEU:HD23	45:PF:188:SER:HB2	1.82	0.62
45:PF:257:LEU:HA	45:PF:312:THR:HG21	1.82	0.62
45:PL:85:PHE:HB3	45:PL:90:PHE:CE1	2.34	0.62
45:PL:287:PRO:HD3	45:PL:325:GLU:OE2	2.00	0.62
45:PN:105:HIS:CG	45:PN:150:LEU:HD11	2.34	0.62
45:PN:164:MET:H	45:PN:197:ASP:CB	2.12	0.62
45:PN:174:LYS:CD	45:PN:175:VAL:HG13	2.25	0.62
44:QA:332:ILE:HA	44:QA:335:ILE:HG22	1.80	0.62
45:QB:87:PRO:HG2	45:RB:278:SER:HB2	1.81	0.62
45:QD:7:ILE:HB	45:QD:135:ILE:HD13	1.82	0.62
45:QF:105:HIS:CD2	45:QF:150:LEU:HB2	2.33	0.62
45:QF:134:GLN:HA	45:QF:165:GLU:O	2.00	0.62
44:QG:175:PRO:HG2	44:QG:304:LYS:CG	2.28	0.62
44:QI:2:ARG:HA	44:QI:131:GLY:CA	2.18	0.62
44:QI:414:GLU:HB2	44:QI:417:GLU:CG	2.24	0.62
45:QJ:86:ARG:NH2	45:RJ:281:TYR:HB2	2.13	0.62
45:QL:325:GLU:O	45:QL:329:GLN:N	2.27	0.62
44:RA:30:ILE:HG12	44:RA:36:MET:HE3	1.80	0.62
44:RC:6:SER:O	44:RC:66:VAL:HG12	2.00	0.62
44:RC:119:LEU:HG	44:RC:156:ARG:HD3	1.81	0.62
44:RC:331:SER:O	44:RC:335:ILE:HG12	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:60:VAL:HG11	45:RJ:86:ARG:HD2	1.80	0.62
45:RJ:141:GLY:HA3	48:RJ:501:GDP:PB	2.39	0.62
44:RK:330:ALA:O	44:RK:334:THR:HG23	1.99	0.62
45:RL:347:ASN:O	44:RM:181:VAL:HG12	2.00	0.62
44:RM:224:TYR:HA	44:RM:227:LEU:CD1	2.30	0.62
44:SA:254:GLU:HG2	45:SB:98:GLY:CA	2.27	0.62
44:SA:271:SER:HB2	44:SA:377:MET:CG	2.27	0.62
45:SB:23:VAL:CG1	45:SB:231:ALA:HA	2.29	0.62
45:SB:240:LEU:O	45:SB:240:LEU:HD23	1.99	0.62
45:SB:313:ALA:O	45:SB:349:ILE:HA	1.99	0.62
44:SC:77:GLU:HA	44:SC:80:THR:OG1	1.99	0.62
44:SE:56:THR:HA	44:TE:285:GLN:NE2	2.14	0.62
45:SF:289:LEU:HD13	45:SF:365:VAL:CG2	2.30	0.62
44:SI:203:MET:HG3	44:SI:384:ILE:CD1	2.23	0.62
45:SJ:8:GLN:HE22	45:SJ:17:GLY:HA3	1.64	0.62
44:SK:217:LEU:HD13	44:SK:367:ASP:OD2	1.99	0.62
44:SK:268:MET:HB3	44:SK:380:ASN:HB2	1.80	0.62
45:SL:323:THR:HA	45:SL:326:VAL:HG23	1.79	0.62
44:SM:425:LEU:O	44:SM:429:GLU:HG3	2.00	0.62
45:SN:113:ILE:HD13	45:SN:150:LEU:CD2	2.30	0.62
44:TA:295:ALA:O	44:TA:377:MET:HE3	1.99	0.62
44:TA:319:TYR:O	44:TA:356:ASN:N	2.33	0.62
45:TB:226:ASN:HD21	48:TB:501:GDP:HN1	1.46	0.62
44:TC:30:ILE:CG2	44:TC:34:GLY:HA2	2.29	0.62
45:TD:105:HIS:CD2	45:TD:150:LEU:HB2	2.35	0.62
45:TD:240:LEU:HD12	45:TD:249:ASP:CB	2.29	0.62
45:TH:73:MET:CE	45:TH:92:PHE:HB3	2.29	0.62
44:TI:202:VAL:HA	44:TI:268:MET:O	2.00	0.62
45:TJ:105:HIS:CG	45:TJ:150:LEU:HD12	2.34	0.62
45:TJ:285:THR:CB	45:TJ:287:PRO:HD2	2.30	0.62
44:TK:326:LYS:HD2	45:TL:225:LEU:HD11	1.81	0.62
45:TL:230:SER:HA	45:TL:233:MET:CE	2.28	0.62
45:TN:207:LEU:CD2	45:TN:300:MET:HE1	2.29	0.62
45:TN:256:ASN:CB	45:TN:350:LYS:HD2	2.28	0.62
45:UD:114:ASP:OD1	45:UD:115:SER:N	2.32	0.62
45:UD:192:LEU:HD12	45:UD:196:ALA:HB2	1.80	0.62
45:UD:380:ARG:O	45:UD:384:GLN:HG2	2.00	0.62
44:UE:377:MET:SD	44:UE:379:SER:N	2.73	0.62
44:UI:257:THR:HA	45:UJ:397:TRP:CZ3	2.34	0.62
44:UI:290:GLU:O	44:UI:293:ASN:HB2	1.99	0.62
44:UK:69:ASP:OD1	44:UK:145:THR:HG21	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:32:PRO:HB3	45:UL:81:PHE:HA	1.81	0.62
45:UN:211:CYS:CA	45:UN:215:LEU:HD12	2.29	0.62
45:UN:415:MET:HE2	45:UN:415:MET:HA	1.80	0.62
45:VB:135:ILE:N	45:VB:165:GLU:O	2.31	0.62
45:VB:287:PRO:O	45:VB:290:THR:HG22	2.00	0.62
45:VB:325:GLU:N	45:VB:325:GLU:OE1	2.33	0.62
44:VC:265:ILE:CD1	44:VC:435:VAL:HG21	2.30	0.62
45:VD:103:LYS:HA	45:VD:107:THR:OG1	1.98	0.62
44:VE:93:ILE:CD1	44:VE:117:LEU:HB3	2.28	0.62
44:VI:141:VAL:CG1	44:VI:172:TYR:HA	2.28	0.62
44:WA:345:ASP:CB	45:WD:391:ARG:HH12	2.11	0.62
45:WB:315:ALA:HB1	45:WB:317:PHE:CE1	2.34	0.62
45:WD:267:MET:N	45:WD:369:GLY:O	2.31	0.62
44:WE:259:LEU:HD21	44:WE:316:SER:CB	2.28	0.62
45:WF:47:ILE:HD13	45:WF:59:TYR:CE2	2.35	0.62
45:WJ:207:LEU:CD1	45:WJ:225:LEU:HB3	2.29	0.62
44:WK:329:ASN:O	44:WK:333:ALA:N	2.31	0.62
44:WM:269:LEU:HD13	44:WM:305:CYS:HB3	1.81	0.62
44:WM:317:MET:HG3	44:WM:376:CYS:C	2.19	0.62
44:WM:331:SER:HA	44:WM:334:THR:OG1	1.99	0.62
45:WN:131:GLN:HG2	45:WN:250:LEU:HD12	1.80	0.62
45:WN:165:GLU:OE1	45:WN:236:VAL:HG21	2.00	0.62
45:WN:207:LEU:O	45:WN:210:ILE:HG22	1.99	0.62
1:6H:382:PHE:CE1	44:FK:364:PRO:CG	2.82	0.62
5:0D:177:THR:HG23	45:EB:45:GLU:O	1.99	0.62
10:0N:16:ILE:CG2	45:IN:48:ASN:HB3	2.29	0.62
12:0S:152:SER:HB2	45:WB:95:THR:HG21	1.82	0.62
8:1G:142:LYS:HB3	44:JA:85:GLN:NE2	2.13	0.62
20:1J:300:PHE:HD2	44:HK:84:ARG:HE	1.47	0.62
23:1M:7:ILE:CD1	44:IC:43:GLY:HA2	2.29	0.62
26:3R:11:PHE:HZ	45:MN:279:GLN:HE22	1.46	0.62
13:3T:97:ARG:NH1	44:MK:416:GLY:HA3	2.14	0.62
13:3T:147:PHE:HB3	45:MN:402:GLY:HA3	1.82	0.62
35:4R:29:GLN:HG2	44:LC:2:ARG:NH1	2.06	0.62
38:5F:141:CYS:O	38:5F:144:LEU:HG	2.00	0.62
38:5H:52:GLY:O	38:5H:56:VAL:HG23	2.00	0.62
38:5H:91:ASN:O	38:5H:94:SER:OG	2.11	0.62
36:5S:123:GLY:O	36:5S:126:GLU:N	2.32	0.62
41:6G:86:LYS:CE	44:VI:280:LYS:HE2	2.30	0.62
35:7R:148:GLN:HG3	35:7R:149:GLN:O	2.00	0.62
42:8N:253:UNK:CB	45:RD:362:LYS:HD3	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:271:ALA:HB3	45:AD:365:VAL:CG2	2.29	0.62
44:AE:317:MET:SD	44:AE:319:TYR:HE1	2.21	0.62
45:AJ:267:MET:CE	45:AJ:374:ILE:HG22	2.30	0.62
44:AK:206:ASN:O	44:AK:209:ILE:HG22	1.99	0.62
45:AL:97:ALA:CB	45:AL:143:THR:HB	2.29	0.62
44:AM:141:VAL:HG12	44:AM:171:ILE:O	1.99	0.62
44:BA:115:VAL:CG2	44:BA:156:ARG:HD2	2.29	0.62
45:BD:139:LEU:HB3	45:BD:185:ALA:CB	2.29	0.62
44:BG:145:THR:N	46:BG:501:GTP:O2G	2.32	0.62
44:BG:332:ILE:HD12	44:BG:351:PHE:CD2	2.34	0.62
44:BI:203:MET:HG3	44:BI:384:ILE:HD11	1.81	0.62
45:BJ:67:ASP:OD2	45:BJ:72:THR:HG21	1.99	0.62
45:BJ:165:GLU:OE2	45:BJ:250:LEU:HD22	2.00	0.62
44:BK:175:PRO:HG2	44:BK:207:GLU:OE1	1.99	0.62
45:BN:241:ARG:HG2	45:BN:242:PHE:CD2	2.35	0.62
44:CA:84:ARG:HB2	44:CA:84:ARG:CZ	2.28	0.62
45:CB:139:LEU:HD22	45:CB:188:SER:OG	1.98	0.62
44:CC:108:TYR:CE2	44:CC:413:MET:HG2	2.33	0.62
44:CE:352:LYS:HD2	45:CF:177:ASP:O	1.99	0.62
45:CF:361:LEU:CA	45:CF:362:LYS:HE2	2.26	0.62
44:CG:76:ASP:O	44:CG:80:THR:HG22	1.98	0.62
45:CH:139:LEU:HG	45:CH:188:SER:OG	1.98	0.62
44:CK:230:LEU:CD1	44:CK:275:ILE:HD13	2.28	0.62
44:DA:270:SER:O	44:DA:302:MET:N	2.30	0.62
44:DA:287:SER:O	44:DA:291:ILE:HG23	1.99	0.62
44:DI:68:LEU:HD11	44:DI:118:CYS:SG	2.38	0.62
44:DI:417:GLU:O	44:DI:420:GLU:HG2	1.99	0.62
44:DK:88:HIS:HB3	44:DK:91:GLN:HG2	1.81	0.62
44:DK:183:GLU:N	44:DK:184:PRO:HD2	2.15	0.62
44:DM:137:VAL:HG12	44:DM:167:LEU:O	1.99	0.62
44:DM:275:ILE:CG2	44:DM:368:LEU:HD11	2.29	0.62
44:DM:298:PRO:HA	44:DM:301:MET:SD	2.40	0.62
44:DM:409:VAL:HA	44:DM:413:MET:O	2.00	0.62
45:DN:207:LEU:HD21	45:DN:300:MET:HB2	1.82	0.62
45:DN:295:ASP:CG	45:DN:297:LYS:HG2	2.20	0.62
44:EA:132:LEU:CD2	44:EA:164:LYS:HD2	2.30	0.62
44:EC:56:THR:HG22	44:EC:60:LYS:O	1.99	0.62
44:EC:154:LEU:HD13	44:EC:197:HIS:CB	2.29	0.62
45:ED:31:ASP:HB3	45:ED:32:PRO:HD2	1.80	0.62
45:ED:324:LYS:HG3	44:EE:222:PRO:HG2	1.81	0.62
45:EF:257:LEU:HD11	45:EF:314:SER:CB	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:291:GLN:NE2	45:EF:292:GLN:HB2	2.15	0.62
45:EH:25:SER:OG	45:EH:30:ILE:HD11	2.00	0.62
44:EI:11:GLN:HB3	46:EI:501:GTP:O3A	1.99	0.62
44:EI:23:LEU:HD21	44:EI:236:SER:HB3	1.81	0.62
44:EI:179:THR:HG21	46:EI:501:GTP:C3'	2.29	0.62
45:EL:190:HIS:O	45:EL:193:VAL:HG12	1.99	0.62
44:EM:271:SER:HA	44:EM:302:MET:HB2	1.82	0.62
45:EN:169:VAL:CG2	45:EN:202:ILE:HB	2.24	0.62
45:EN:217:LEU:HD11	45:EN:220:PRO:CA	2.30	0.62
45:FB:28:HIS:HE1	45:FB:241:ARG:HD2	1.64	0.62
45:FB:385:PHE:HZ	45:FB:408:PHE:HB3	1.64	0.62
44:FC:332:ILE:HD12	44:FC:351:PHE:CD2	2.35	0.62
45:FD:105:HIS:CE1	45:FD:150:LEU:HD12	2.34	0.62
45:FF:19:LYS:CG	45:FF:226:ASN:HB3	2.30	0.62
45:FJ:70:PRO:HD2	45:FJ:71:GLY:H	1.63	0.62
45:FJ:152:ILE:HD13	45:FJ:164:MET:HE1	1.82	0.62
45:FJ:192:LEU:HD12	45:FJ:196:ALA:HB2	1.81	0.62
45:FN:156:ARG:CB	45:FN:195:ASN:HD21	2.13	0.62
45:GB:268:ILE:HD12	45:GB:367:PHE:O	2.00	0.62
44:GC:175:PRO:HB3	44:GC:390:ARG:CZ	2.29	0.62
45:GD:113:ILE:HD13	45:GD:150:LEU:CD2	2.29	0.62
45:GF:12:CYS:HB3	45:GF:138:SER:HB2	1.80	0.62
44:GI:331:SER:O	44:GI:334:THR:HG22	1.99	0.62
45:GJ:11:GLN:HG2	45:GJ:12:CYS:N	2.14	0.62
44:GK:188:ILE:CG2	44:GK:425:LEU:HD11	2.29	0.62
45:GN:19:LYS:O	45:GN:23:VAL:HG13	2.00	0.62
45:GN:68:LEU:HD12	45:GN:93:GLY:HA3	1.80	0.62
45:GN:172:SER:OG	45:GN:205:GLU:OE1	2.05	0.62
45:HF:187:LEU:HD21	45:HF:408:PHE:CD1	2.34	0.62
44:HG:432:TYR:O	44:HG:435:VAL:HG12	1.99	0.62
45:HH:12:CYS:SG	45:HH:138:SER:N	2.72	0.62
45:HJ:306:ARG:CZ	45:HJ:307:HIS:CE1	2.82	0.62
44:HK:217:LEU:HD13	44:HK:367:ASP:HB3	1.80	0.62
44:HM:11:GLN:HE21	44:HM:71:GLU:HB3	1.63	0.62
44:IA:217:LEU:HD13	44:IA:367:ASP:OD2	1.99	0.62
44:IG:176:GLN:OE1	45:IH:331:LEU:HD22	1.99	0.62
45:IH:52:ASN:OD1	45:IH:53:GLU:N	2.32	0.62
45:IH:253:LEU:O	45:IH:257:LEU:HD23	1.99	0.62
45:IH:309:ARG:HE	45:IH:342:VAL:HG22	1.64	0.62
44:II:230:LEU:O	44:II:234:VAL:HG23	2.00	0.62
44:IM:316:SER:HB3	44:IM:378:ILE:HB	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:135:PHE:HB2	44:JE:166:LYS:HG2	1.82	0.62
44:JE:181:VAL:HG23	45:JF:347:ASN:O	1.98	0.62
44:JE:189:LEU:HD11	44:JE:418:PHE:CE1	2.35	0.62
44:JG:269:LEU:HD12	44:JG:301:MET:CE	2.30	0.62
45:JH:108:GLU:O	45:JH:111:GLU:HG3	1.99	0.62
45:JH:115:SER:O	45:JH:119:VAL:HG23	2.00	0.62
45:JH:279:GLN:HB3	45:JH:280:GLN:CD	2.20	0.62
45:JJ:44:LEU:HD23	45:JJ:47:ILE:HD12	1.80	0.62
44:KA:319:TYR:HB2	44:KA:354:GLY:O	1.99	0.62
44:KA:332:ILE:HD11	44:KA:351:PHE:CD2	2.34	0.62
44:KC:326:LYS:NZ	44:KC:327:ASP:OD1	2.31	0.62
44:KE:363:VAL:CG1	44:KE:364:PRO:HD2	2.30	0.62
44:KI:166:LYS:HE3	44:KI:197:HIS:O	1.99	0.62
45:KN:1:MET:O	45:KN:2:ARG:HG2	2.00	0.62
44:LA:423:GLU:HA	44:LA:426:ALA:CB	2.29	0.62
44:LE:269:LEU:H	44:LE:269:LEU:HD23	1.62	0.62
44:LG:285:GLN:OE1	44:LG:287:SER:HB2	1.99	0.62
45:LH:121:ARG:O	45:LH:125:GLU:HG2	2.00	0.62
45:LJ:370:ASN:OD1	45:LJ:422:TYR:OH	2.18	0.62
45:LL:135:ILE:HB	45:LL:166:THR:HG22	1.80	0.62
45:LN:112:LEU:HD23	45:LN:112:LEU:O	2.00	0.62
44:ME:137:VAL:HG22	44:ME:167:LEU:O	2.00	0.62
44:ME:257:THR:HA	45:MH:397:TRP:NE1	2.13	0.62
44:MG:271:SER:HB2	44:MG:377:MET:CG	2.30	0.62
44:MI:102:ASN:CG	44:MI:105:ARG:HG3	2.20	0.62
45:ML:257:LEU:HB3	45:ML:266:PHE:CZ	2.35	0.62
44:MM:200:VAL:HG13	44:MM:268:MET:CE	2.29	0.62
44:MM:214:ARG:NH2	44:MM:215:ARG:HA	2.14	0.62
45:MN:99:ASN:HA	45:MN:142:GLY:H	1.63	0.62
44:NA:265:ILE:HG12	44:NA:432:TYR:CE1	2.35	0.62
44:NA:274:PRO:CD	44:NA:374:ALA:HA	2.29	0.62
44:NE:12:GLY:O	44:NE:16:VAL:HG13	1.99	0.62
44:NE:73:THR:HG21	45:NF:243:PRO:HA	1.81	0.62
45:NF:173:PRO:HD3	45:NF:380:ARG:NE	2.14	0.62
44:NG:434:GLU:O	44:NG:437:ILE:HG22	2.00	0.62
45:NH:325:GLU:CA	45:NH:328:GLU:HG2	2.24	0.62
44:NM:91:GLN:HE22	44:NM:125:LEU:HD21	1.64	0.62
45:NN:42:LEU:HD23	45:NN:45:GLU:OE2	1.99	0.62
45:NN:305:PRO:HB2	45:NN:310:TYR:CZ	2.34	0.62
44:OA:205:ASP:HB2	44:OA:304:LYS:NZ	2.13	0.62
45:OB:145:SER:O	45:OB:149:THR:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:88:HIS:CE1	44:OE:90:GLU:HG3	2.34	0.62
44:OG:320:ARG:NH1	44:OG:359:PRO:O	2.32	0.62
45:OH:330:MET:O	45:OH:333:VAL:HG12	2.00	0.62
44:PA:268:MET:HB2	44:PA:379:SER:O	1.98	0.62
44:PC:102:ASN:ND2	44:PC:411:GLU:HG3	2.13	0.62
44:PE:11:GLN:NE2	45:PF:245:GLN:O	2.32	0.62
44:PG:2:ARG:H	44:PG:2:ARG:HD3	1.63	0.62
44:PK:21:TRP:CZ2	44:PK:65:ALA:HB2	2.34	0.62
45:PL:214:THR:O	45:PL:216:LYS:HG3	1.99	0.62
45:PL:268:ILE:CG2	45:PL:368:VAL:HG22	2.29	0.62
45:PN:164:MET:H	45:PN:197:ASP:HB2	1.64	0.62
45:PN:372:THR:HA	45:PN:422:TYR:CE2	2.34	0.62
44:QE:141:VAL:HG22	44:QE:187:SER:CB	2.29	0.62
45:QF:238:CYS:HB2	45:QF:318:ARG:NH2	2.15	0.62
45:QJ:288:GLU:O	45:QJ:291:GLN:HG3	2.00	0.62
45:QL:34:GLY:O	45:QL:58:ARG:HB2	1.99	0.62
45:QL:308:GLY:HA3	45:QL:372:THR:OG1	1.99	0.62
45:QL:322:SER:HB2	44:QM:223:THR:HB	1.80	0.62
44:QM:209:ILE:HD13	44:QM:231:ILE:HD11	1.82	0.62
45:QN:20:PHE:HA	45:QN:230:SER:HB3	1.82	0.62
45:QN:169:VAL:HG22	45:QN:202:ILE:CB	2.19	0.62
44:RA:141:VAL:HG11	44:RA:172:TYR:HA	1.80	0.62
45:RB:238:CYS:HB2	45:RB:318:ARG:NH2	2.14	0.62
45:RD:398:TYR:O	45:RD:403:MET:HB2	1.99	0.62
44:RE:54:SER:HB3	44:RE:64:ARG:NH2	2.13	0.62
44:RE:195:LEU:HD21	44:RE:264:ARG:NH2	2.15	0.62
45:RF:210:ILE:HD11	45:RF:273:LEU:CD1	2.30	0.62
44:RI:276:ILE:CD1	44:RI:281:ALA:HA	2.30	0.62
44:RK:118:CYS:SG	44:RK:122:ILE:HD11	2.40	0.62
44:RK:319:TYR:CE2	44:RK:328:VAL:HG22	2.35	0.62
45:RL:25:SER:HA	45:RL:30:ILE:CD1	2.22	0.62
44:RM:174:SER:HB2	44:RM:177:VAL:O	2.00	0.62
44:RM:219:ILE:O	44:RM:222:PRO:HD3	2.00	0.62
45:RN:17:GLY:O	45:RN:21:TRP:HB2	1.99	0.62
45:RN:73:MET:SD	45:RN:92:PHE:HB3	2.40	0.62
45:RN:286:VAL:O	45:RN:289:LEU:N	2.31	0.62
44:SA:3:GLU:C	44:SA:132:LEU:HG	2.20	0.62
44:SA:209:ILE:HA	44:SA:212:ILE:CD1	2.29	0.62
45:SB:224:ASP:HA	45:SB:227:HIS:CB	2.28	0.62
45:SB:312:THR:HG22	45:SB:313:ALA:H	1.64	0.62
44:SE:276:ILE:HD11	44:SE:371:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:324:VAL:HG12	44:SE:326:LYS:HG3	1.81	0.62
44:SG:2:ARG:HG3	44:SG:133:GLN:NE2	2.14	0.62
44:SG:233:GLN:HG3	44:SG:272:TYR:OH	2.00	0.62
45:SH:73:MET:SD	45:SH:92:PHE:HB3	2.40	0.62
44:SI:16:VAL:CA	44:SI:228:ASN:HD21	2.12	0.62
45:SJ:263:LEU:HD11	45:SJ:422:TYR:CE1	2.34	0.62
44:SK:70:LEU:HD12	44:SK:145:THR:OG1	1.98	0.62
45:SL:146:GLY:O	45:SL:149:THR:HG22	1.99	0.62
45:SN:265:PHE:HB2	45:SN:374:ILE:HD13	1.82	0.62
45:TB:193:VAL:HA	45:TB:264:HIS:NE2	2.14	0.62
44:TC:11:GLN:HA	44:TC:14:ILE:HD13	1.79	0.62
45:TD:3:GLU:CG	45:TD:127:CYS:HB2	2.30	0.62
44:TE:83:TYR:HB3	44:TE:86:LEU:HD23	1.82	0.62
44:TE:247:ALA:HB1	45:TF:222:TYR:CE2	2.34	0.62
45:TH:114:ASP:OD1	45:TH:115:SER:N	2.32	0.62
45:TJ:255:VAL:HA	44:TK:407:TRP:CH2	2.34	0.62
44:TK:13:GLY:CA	44:TK:16:VAL:HG12	2.28	0.62
45:TL:229:VAL:HG12	45:TL:233:MET:HE2	1.82	0.62
45:TN:171:PRO:CB	45:TN:181:GLU:HB3	2.30	0.62
45:UB:310:TYR:HA	45:UB:371:SER:HB2	1.81	0.62
44:UE:346:TRP:CD1	45:UF:391:ARG:HG3	2.34	0.62
44:UG:236:SER:O	44:UG:240:ALA:HB2	1.99	0.62
44:UI:87:PHE:HB3	44:UI:92:LEU:HD11	1.80	0.62
44:UI:269:LEU:CD1	44:UI:303:ALA:HB3	2.29	0.62
45:UJ:377:MET:O	45:UJ:380:ARG:HG2	1.99	0.62
44:UK:169:PHE:HD1	44:UK:202:VAL:HG21	1.65	0.62
45:UL:116:VAL:O	45:UL:120:VAL:HG23	1.99	0.62
45:UL:134:GLN:HA	45:UL:165:GLU:HB2	1.81	0.62
45:UL:246:LEU:HD11	46:UM:501:GTP:N7	2.13	0.62
45:UL:309:ARG:NH2	45:UL:342:VAL:HA	2.14	0.62
44:UM:77:GLU:OE1	44:UM:77:GLU:HA	1.99	0.62
45:UN:208:TYR:HA	45:UN:211:CYS:SG	2.38	0.62
45:UN:280:GLN:HB2	45:UN:281:TYR:CE2	2.34	0.62
44:VA:221:ARG:HE	45:VB:321:MET:CE	2.12	0.62
45:VB:242:PHE:CB	45:VB:356:ILE:HG13	2.30	0.62
45:VB:293:MET:HE1	45:VB:367:PHE:HB2	1.80	0.62
45:VD:192:LEU:CD1	45:VD:196:ALA:HB2	2.30	0.62
44:VM:75:ILE:HD11	44:VM:92:LEU:CB	2.29	0.62
45:WB:40:SER:OG	45:WB:43:GLN:HG3	2.00	0.62
44:WC:76:ASP:O	44:WC:80:THR:N	2.33	0.62
44:WC:143:GLY:HA3	46:WC:501:GTP:PA	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:113:ILE:HD12	45:WD:147:MET:CG	2.29	0.62
45:WD:258:ILE:HG13	45:WD:266:PHE:HZ	1.65	0.62
44:WG:254:GLU:HG2	45:WJ:98:GLY:HA2	1.80	0.62
45:WH:32:PRO:HG3	45:WH:81:PHE:CZ	2.34	0.62
45:WH:238:CYS:HB2	45:WH:318:ARG:NH2	2.14	0.62
44:WM:69:ASP:OD2	44:WM:74:VAL:HG21	2.00	0.62
45:WN:200:MET:HE1	45:WN:268:ILE:H	1.63	0.62
1:6H:295:GLN:NE2	45:FH:362:LYS:CA	2.40	0.62
7:0F:38:HIS:HB2	45:DD:48:ASN:OD1	1.99	0.62
21:1K:36:LEU:HD11	44:KC:333:ALA:HB1	1.80	0.62
22:2L:526:ARG:HH22	45:BN:363:MET:CE	2.13	0.62
12:3S:140:ARG:HH22	11:5Q:149:ILE:HG23	1.62	0.62
16:3X:42:LYS:HG2	44:LM:57:GLY:O	1.99	0.62
34:4F:14:TYR:OH	45:GJ:53:GLU:OE1	2.16	0.62
37:5A:163:ALA:HB1	44:NC:280:LYS:HA	1.80	0.62
37:5D:39:ARG:HE	44:KK:266:HIS:CA	2.12	0.62
37:5D:107:TYR:HB2	44:NM:279:GLU:HG2	1.81	0.62
38:5E:131:SER:HB2	45:OD:219:THR:OG1	1.98	0.62
38:5G:116:TYR:CD1	44:NI:85:GLN:HG2	2.35	0.62
35:5R:202:GLU:OE1	35:5R:202:GLU:N	2.32	0.62
35:5R:478:ASN:OD1	35:5R:479:PRO:HD2	1.98	0.62
11:6Q:6:PHE:CZ	11:6Q:8:SER:HB2	2.34	0.62
11:6Q:115:LYS:CG	11:6Q:116:PRO:HD2	2.29	0.62
35:7R:118:LEU:HD11	35:7R:127:ILE:HD11	1.80	0.62
44:AA:161:TYR:HB3	44:AA:164:LYS:HZ1	1.63	0.62
44:AA:226:ASN:HA	44:AA:229:ARG:NH2	2.15	0.62
44:AC:102:ASN:O	44:AC:105:ARG:N	2.33	0.62
45:AD:165:GLU:OE2	45:AD:250:LEU:HD22	2.00	0.62
45:AF:16:ILE:CG2	45:AF:136:THR:HG21	2.29	0.62
45:AH:45:GLU:OE2	45:AH:243:PRO:HD3	1.98	0.62
45:AH:100:ASN:ND2	45:AH:103:LYS:HB2	2.11	0.62
45:AH:114:ASP:OD1	45:AH:115:SER:N	2.32	0.62
45:AL:36:TYR:CE2	45:AL:44:LEU:HG	2.34	0.62
44:BA:269:LEU:HD12	44:BA:301:MET:SD	2.40	0.62
45:BD:116:VAL:O	45:BD:119:VAL:HG12	1.99	0.62
45:BF:101:TRP:NE1	45:BF:145:SER:O	2.32	0.62
44:BG:224:TYR:HD2	46:BG:501:GTP:C6	2.18	0.62
44:BI:31:GLN:HB3	44:BI:32:PRO:HD2	1.80	0.62
44:BI:311:LYS:HZ3	44:BI:342:GLN:HG3	1.64	0.62
44:BI:413:MET:HA	44:BI:413:MET:HE2	1.79	0.62
45:BJ:377:MET:CA	45:BJ:380:ARG:HG2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:238:LEU:HG	44:BK:318:MET:CE	2.29	0.62
44:BK:242:LEU:HD11	44:BK:252:ILE:CD1	2.28	0.62
44:BM:298:PRO:O	44:BM:301:MET:HE2	1.99	0.62
44:BM:363:VAL:HG23	44:BM:364:PRO:HD2	1.80	0.62
45:BN:309:ARG:HH11	45:BN:309:ARG:HG2	1.64	0.62
44:CA:9:VAL:HG21	44:CA:149:LEU:CB	2.30	0.62
44:CA:261:PRO:HB3	45:CB:393:ALA:HB1	1.81	0.62
44:CA:269:LEU:CD1	44:CA:303:ALA:HB3	2.30	0.62
45:CB:2:ARG:NH2	45:CB:240:LEU:HA	2.14	0.62
45:CB:331:LEU:HD12	44:CC:176:GLN:O	2.00	0.62
44:CE:175:PRO:HD2	44:CE:207:GLU:OE1	2.00	0.62
45:CH:214:THR:HG21	45:CH:273:LEU:CB	2.26	0.62
44:CK:303:ALA:C	44:CK:304:LYS:HG2	2.19	0.62
45:CL:229:VAL:O	45:CL:233:MET:HG3	1.99	0.62
45:CL:246:LEU:HD11	44:CM:224:TYR:CE2	2.33	0.62
45:CL:311:LEU:HG	45:CL:370:ASN:O	2.00	0.62
45:CN:201:VAL:HG23	45:CN:301:CYS:SG	2.40	0.62
44:DA:140:SER:HB2	44:DA:171:ILE:HB	1.82	0.62
44:DE:11:GLN:HB3	44:DE:74:VAL:HG11	1.80	0.62
44:DE:28:HIS:CE1	44:DE:48:ALA:HB1	2.35	0.62
44:DG:349:THR:HG23	44:DG:349:THR:O	2.00	0.62
44:DI:217:LEU:HD21	44:DI:275:ILE:CG2	2.29	0.62
45:DJ:289:LEU:HD21	45:DJ:363:MET:CE	2.28	0.62
44:DK:200:VAL:HG13	44:DK:268:MET:CE	2.30	0.62
44:DK:237:SER:HA	44:DK:320:ARG:HH11	1.65	0.62
44:DK:318:MET:SD	44:DK:354:GLY:HA3	2.40	0.62
45:DL:68:LEU:CD2	45:DL:97:ALA:HB3	2.30	0.62
44:DM:149:LEU:O	44:DM:153:LEU:HG	2.00	0.62
45:EB:238:CYS:SG	45:EB:239:CYS:N	2.72	0.62
45:ED:242:PHE:CB	45:ED:356:ILE:HD13	2.30	0.62
44:EG:73:THR:O	44:EG:76:ASP:HB2	1.98	0.62
44:EG:175:PRO:HG2	44:EG:304:LYS:CG	2.29	0.62
45:EH:250:LEU:HD12	45:EH:250:LEU:H	1.64	0.62
44:EK:352:LYS:HD2	45:EL:177:ASP:O	1.99	0.62
45:EL:143:THR:HG23	45:EL:144:GLY:N	2.14	0.62
45:EN:319:GLY:O	45:EN:355:ASP:HA	1.99	0.62
44:FA:12:GLY:O	44:FA:16:VAL:HG12	1.99	0.62
44:FA:105:ARG:O	44:FA:110:ILE:HG12	1.98	0.62
45:FB:254:ALA:CB	45:FB:258:ILE:HD13	2.25	0.62
45:FD:260:PHE:HB3	45:FD:261:PRO:HD2	1.80	0.62
44:FE:326:LYS:CD	45:FH:220:PRO:HD2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:105:ARG:HA	44:FI:109:THR:CG2	2.30	0.62
44:FI:221:ARG:HH12	45:FJ:325:GLU:N	1.98	0.62
44:FI:271:SER:HA	44:FI:302:MET:CG	2.29	0.62
45:FJ:183:TYR:O	45:FJ:187:LEU:HD23	1.99	0.62
44:FK:340:THR:HG23	44:FK:341:ILE:HG13	1.82	0.62
45:FL:156:ARG:NH1	45:FL:162:ARG:O	2.32	0.62
44:FM:70:LEU:C	44:FM:95:GLY:HA3	2.20	0.62
45:FN:252:LYS:HG2	45:FN:350:LYS:CE	2.29	0.62
44:GA:307:PRO:HB3	44:GA:312:TYR:OH	2.00	0.62
45:GB:113:ILE:HA	45:GB:116:VAL:HG12	1.82	0.62
44:GC:118:CYS:C	44:GC:122:ILE:HG12	2.20	0.62
44:GC:274:PRO:CD	44:GC:291:ILE:HD11	2.26	0.62
45:GD:295:ASP:CG	45:GD:297:LYS:HG2	2.19	0.62
44:GE:170:THR:O	44:GE:171:ILE:HD13	1.99	0.62
44:GE:264:ARG:O	44:GE:266:HIS:ND1	2.32	0.62
45:GF:16:ILE:HD11	48:GF:501:GDP:HN21	1.64	0.62
45:GF:345:ILE:O	45:GF:345:ILE:HG23	2.00	0.62
44:GG:169:PHE:HA	44:GG:202:VAL:CG2	2.30	0.62
44:GG:181:VAL:HG22	45:GH:256:ASN:HB3	1.81	0.62
44:GG:210:TYR:CZ	44:GG:227:LEU:HD11	2.34	0.62
44:GG:288:VAL:O	44:GG:291:ILE:HG12	2.00	0.62
45:GL:148:GLY:O	45:GL:152:ILE:HG12	2.00	0.62
45:GL:166:THR:OG1	45:GL:199:CYS:HA	1.99	0.62
45:HB:131:GLN:CG	45:HB:250:LEU:HD12	2.30	0.62
45:HB:133:PHE:O	45:HB:165:GLU:N	2.28	0.62
45:HB:304:ASP:OD1	45:HB:306:ARG:HG2	1.99	0.62
45:HD:245:GLN:O	45:HD:246:LEU:HD12	1.99	0.62
44:HE:235:ILE:O	44:HE:239:THR:HG22	1.99	0.62
45:HF:73:MET:CE	45:HF:92:PHE:HB3	2.24	0.62
45:HH:247:ASN:O	45:HH:252:LYS:NZ	2.30	0.62
45:HJ:86:ARG:HH12	45:IJ:282:ARG:HA	1.64	0.62
45:HJ:238:CYS:HB2	45:HJ:318:ARG:NH2	2.15	0.62
45:HL:4:ILE:HG22	45:HL:132:GLY:N	2.14	0.62
45:HL:238:CYS:HB2	45:HL:318:ARG:NH2	2.15	0.62
45:HL:318:ARG:N	45:HL:364:ALA:O	2.27	0.62
44:HM:174:SER:HB2	44:HM:177:VAL:O	1.98	0.62
44:HM:241:SER:H	44:HM:242:LEU:HB3	1.63	0.62
45:HN:317:PHE:CE1	45:HN:326:VAL:HG13	2.35	0.62
44:IC:434:GLU:O	44:IC:437:ILE:HG12	1.99	0.62
44:IG:318:MET:SD	44:IG:354:GLY:HA3	2.39	0.62
45:IH:86:ARG:CZ	44:JE:283:HIS:HB2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:330:MET:HB3	45:IH:349:ILE:HG21	1.81	0.62
44:IK:422:ARG:NH1	44:IK:426:ALA:HB2	2.15	0.62
45:IL:131:GLN:O	45:IL:163:ILE:HG22	1.99	0.62
45:IL:156:ARG:NH2	45:IL:159:TYR:O	2.19	0.62
44:IM:9:VAL:HG22	44:IM:146:GLY:HA2	1.82	0.62
44:IM:224:TYR:HE2	45:IN:246:LEU:HD11	1.63	0.62
44:IM:294:SER:O	44:IM:297:GLU:HB2	2.00	0.62
45:IN:211:CYS:SG	45:IN:215:LEU:HD12	2.39	0.62
44:JA:185:TYR:HA	44:JA:188:ILE:HG22	1.81	0.62
45:JB:156:ARG:HH12	45:JB:160:PRO:HA	1.65	0.62
45:JB:342:VAL:HG13	45:JB:345:ILE:HG22	1.82	0.62
44:JC:275:ILE:HG23	44:JC:368:LEU:CD1	2.26	0.62
44:JG:407:TRP:CZ2	45:JH:258:ILE:HD11	2.35	0.62
45:JJ:49:VAL:HG11	45:JJ:241:ARG:HG2	1.80	0.62
45:JN:318:ARG:HB2	45:JN:364:ALA:HB3	1.81	0.62
44:KA:269:LEU:HD23	44:KA:379:SER:O	2.00	0.62
45:KB:11:GLN:HG3	45:KB:72:THR:HG23	1.80	0.62
45:KB:381:VAL:HA	45:KB:384:GLN:HE21	1.65	0.62
44:KC:175:PRO:HG3	44:KC:304:LYS:HG2	1.80	0.62
45:KF:61:PRO:HG2	45:KF:85:PHE:CD1	2.33	0.62
45:KH:139:LEU:HD23	45:KH:188:SER:OG	2.00	0.62
45:KJ:86:ARG:HA	45:LJ:281:TYR:OH	1.99	0.62
45:KL:213:ARG:NH2	45:KL:297:LYS:HE2	2.15	0.62
44:KM:27:GLU:HG3	44:KM:28:HIS:ND1	2.14	0.62
44:LA:311:LYS:HB3	44:LA:344:VAL:CG2	2.30	0.62
45:LB:122:LYS:NZ	45:MB:291:GLN:HG2	2.15	0.62
44:LC:318:MET:SD	44:LC:354:GLY:HA3	2.40	0.62
44:LE:56:THR:H	44:LE:57:GLY:HA3	1.64	0.62
45:LH:104:GLY:O	45:LH:147:MET:N	2.32	0.62
44:LI:428:LEU:HD21	44:LI:432:TYR:CZ	2.33	0.62
45:LJ:28:HIS:ND1	45:LJ:43:GLN:O	2.30	0.62
44:LK:176:GLN:NE2	44:LK:207:GLU:OE2	2.33	0.62
45:LN:183:TYR:O	45:LN:186:THR:HG22	1.99	0.62
45:MD:302:ALA:HB3	45:MD:377:MET:HE1	1.81	0.62
45:MF:104:GLY:HA2	45:MF:109:GLY:HA3	1.80	0.62
45:MF:175:VAL:O	45:MF:175:VAL:HG23	2.00	0.62
44:MG:34:GLY:O	44:MG:60:LYS:HA	1.99	0.62
44:MG:98:ASP:O	44:MG:105:ARG:NH1	2.33	0.62
44:MG:145:THR:HG22	46:MG:501:GTP:PG	2.40	0.62
44:MG:332:ILE:HD11	44:MG:351:PHE:CD2	2.35	0.62
45:MJ:112:LEU:O	45:MJ:112:LEU:HD23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:284:GLU:OE2	44:MK:286:LEU:HD22	1.98	0.62
44:MM:100:ALA:O	45:MN:255:VAL:HG21	1.99	0.62
45:MN:201:VAL:HG13	45:MN:301:CYS:SG	2.39	0.62
44:NE:406:HIS:CE1	45:NF:260:PHE:HA	2.35	0.62
45:NF:199:CYS:HB3	45:NF:265:PHE:CD2	2.35	0.62
45:NJ:4:ILE:HG22	45:NJ:132:GLY:N	2.14	0.62
45:NJ:187:LEU:HD11	45:NJ:408:PHE:CE1	2.35	0.62
45:NJ:289:LEU:HD13	45:NJ:365:VAL:CG2	2.30	0.62
44:NK:387:VAL:O	44:NK:390:ARG:HG2	1.99	0.62
45:NL:15:GLN:HA	45:NL:18:ALA:HB3	1.81	0.62
45:NL:97:ALA:O	45:NL:103:LYS:HE3	2.00	0.62
44:NM:232:ALA:O	44:NM:235:ILE:HG22	2.00	0.62
44:OA:139:ASN:O	44:OA:170:THR:HG23	2.00	0.62
44:OA:352:LYS:HD3	45:OD:178:THR:HA	1.80	0.62
44:OC:100:ALA:HA	45:OD:252:LYS:CG	2.29	0.62
44:OC:242:LEU:CD1	44:OC:252:ILE:HG13	2.30	0.62
45:OD:267:MET:O	45:OD:368:VAL:HA	2.00	0.62
44:OE:155:GLU:HG2	44:OE:197:HIS:CD2	2.35	0.62
44:OE:209:ILE:HA	44:OE:212:ILE:CG1	2.30	0.62
44:OE:268:MET:CE	44:OE:380:ASN:HB2	2.30	0.62
45:OH:86:ARG:CD	45:PH:281:TYR:HB3	2.29	0.62
45:OH:344:TRP:CE3	45:OH:345:ILE:HG23	2.35	0.62
45:OJ:36:TYR:CD1	45:OJ:44:LEU:HD21	2.34	0.62
44:OK:115:VAL:HB	44:OK:152:LEU:HD23	1.82	0.62
45:OL:289:LEU:HD11	45:OL:363:MET:HB2	1.82	0.62
45:ON:388:MET:HG2	45:ON:393:ALA:HB3	1.80	0.62
44:PA:140:SER:HB2	44:PA:171:ILE:HB	1.81	0.62
44:PC:107:HIS:CE1	44:PC:152:LEU:HD13	2.35	0.62
44:PC:221:ARG:HH22	45:PD:325:GLU:CB	2.12	0.62
44:PC:435:VAL:HA	45:PF:391:ARG:NH2	2.14	0.62
44:PI:115:VAL:HG11	44:PI:152:LEU:HD21	1.82	0.62
44:PI:301:MET:HE1	44:PI:307:PRO:CB	2.19	0.62
45:PJ:49:VAL:HG12	45:PJ:50:TYR:HD1	1.63	0.62
44:PK:141:VAL:HG11	44:PK:172:TYR:HD1	1.64	0.62
44:PM:14:ILE:HD11	44:PM:69:ASP:HB2	1.82	0.62
44:QA:284:GLU:HG3	44:QA:286:LEU:CD2	2.28	0.62
44:QA:344:VAL:HG11	44:QA:346:TRP:CE2	2.34	0.62
45:QB:2:ARG:NH2	45:QB:240:LEU:O	2.33	0.62
45:QF:52:ASN:OD1	45:QF:62:ARG:NH2	2.32	0.62
45:QF:86:ARG:HD2	45:RF:281:TYR:CB	2.30	0.62
45:QH:11:GLN:O	45:QH:15:GLN:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:113:ILE:HG13	45:QH:116:VAL:CG1	2.30	0.62
45:QJ:243:PRO:HA	44:QK:73:THR:HG21	1.82	0.62
44:QK:53:PHE:CB	44:QK:61:HIS:HB3	2.30	0.62
44:QM:101:ASN:ND2	44:QM:143:GLY:HA2	2.15	0.62
45:QN:282:ARG:HH12	45:QN:284:LEU:HD23	1.64	0.62
44:RA:3:GLU:O	44:RA:132:LEU:HA	1.99	0.62
44:RC:276:ILE:CD1	44:RC:280:LYS:HG3	2.25	0.62
45:RF:284:LEU:CD1	45:RF:362:LYS:HE2	2.29	0.62
45:RH:200:MET:HE3	45:RH:266:PHE:HB2	1.81	0.62
44:RK:99:ALA:HA	44:RK:105:ARG:CZ	2.29	0.62
45:RL:267:MET:HB2	45:RL:301:CYS:SG	2.40	0.62
45:RN:208:TYR:CZ	45:RN:225:LEU:HD11	2.34	0.62
44:SA:257:THR:HG23	44:SA:258:ASN:OD1	1.99	0.62
45:SB:104:GLY:HA2	45:SB:143:THR:HG22	1.82	0.62
45:SB:165:GLU:OE2	45:SB:250:LEU:HD13	1.99	0.62
44:SC:35:GLN:HG2	44:SC:60:LYS:HG2	1.82	0.62
45:SD:163:ILE:HD13	45:SD:251:ARG:HD2	1.81	0.62
45:SD:304:ASP:OD2	45:SD:307:HIS:NE2	2.33	0.62
44:SE:263:PRO:HD3	45:SF:396:HIS:CG	2.34	0.62
45:SF:49:VAL:HG11	45:SF:241:ARG:HG2	1.82	0.62
45:SF:136:THR:HG21	45:SF:233:MET:CE	2.30	0.62
45:SF:213:ARG:NH2	45:SF:298:ASN:HA	2.14	0.62
44:SG:102:ASN:CG	44:SG:105:ARG:HG3	2.19	0.62
45:SH:199:CYS:HB3	45:SH:265:PHE:CD2	2.35	0.62
44:SI:9:VAL:O	44:SI:13:GLY:HA3	1.99	0.62
45:SJ:154:LYS:O	45:SJ:158:GLU:HG3	2.00	0.62
44:SK:87:PHE:HB3	44:SK:92:LEU:HD11	1.81	0.62
44:TA:213:CYS:O	44:TA:217:LEU:HB2	1.98	0.62
45:TB:181:GLU:HA	45:TB:184:ASN:OD1	2.00	0.62
45:TB:293:MET:HG3	45:TB:294:PHE:CD1	2.32	0.62
45:TD:1:MET:CE	44:TE:96:LYS:HB3	2.29	0.62
44:TE:362:VAL:CG1	44:TE:370:LYS:HB3	2.30	0.62
45:TF:317:PHE:CZ	45:TF:326:VAL:HG13	2.35	0.62
45:TH:247:ASN:OD1	44:TI:11:GLN:NE2	2.33	0.62
45:TJ:151:LEU:O	45:TJ:155:VAL:HG23	2.00	0.62
45:UB:51:TYR:HE1	45:UB:84:LEU:HD23	1.64	0.62
45:UB:327:ASP:HB3	44:UC:177:VAL:HG13	1.81	0.62
44:UC:53:PHE:O	44:UC:64:ARG:NE	2.33	0.62
45:UD:105:HIS:NE2	45:UD:150:LEU:HD12	2.15	0.62
45:UD:178:THR:O	45:UD:181:GLU:HG3	1.99	0.62
44:UE:384:ILE:O	44:UE:387:VAL:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:233:GLN:O	44:UG:236:SER:N	2.32	0.62
44:UI:70:LEU:CA	44:UI:95:GLY:HA3	2.30	0.62
44:UI:324:VAL:HG12	44:UI:326:LYS:HG3	1.82	0.62
44:UI:348:PRO:HD3	45:UJ:388:MET:HB2	1.81	0.62
45:UL:260:PHE:HE2	45:UL:344:TRP:HH2	1.48	0.62
45:UN:211:CYS:HA	45:UN:215:LEU:CG	2.30	0.62
44:VE:215:ARG:HA	44:VE:215:ARG:CZ	2.29	0.62
45:VF:49:VAL:HG11	45:VF:241:ARG:HD2	1.82	0.62
45:VF:285:THR:OG1	45:VF:287:PRO:HD2	2.00	0.62
45:VF:318:ARG:NH1	45:VF:358:PRO:HG3	2.15	0.62
44:VG:145:THR:HG23	46:VG:501:GTP:O2G	1.99	0.62
45:VJ:163:ILE:HA	45:VJ:197:ASP:OD2	2.00	0.62
45:VL:64:ILE:HG23	45:VL:89:ASN:O	1.99	0.62
45:VN:150:LEU:HD21	45:VN:154:LYS:HE2	1.80	0.62
44:WA:219:ILE:HG21	44:WA:222:PRO:HB3	1.80	0.62
44:WC:221:ARG:HG3	45:WD:322:SER:CB	2.30	0.62
44:WC:222:PRO:CD	45:WD:324:LYS:HD3	2.30	0.62
45:WD:285:THR:CB	45:WD:287:PRO:HD2	2.28	0.62
44:WG:176:GLN:HG2	44:WG:177:VAL:N	2.13	0.62
45:WH:97:ALA:O	45:WH:103:LYS:HD2	1.99	0.62
45:WH:267:MET:HG3	45:WH:299:MET:CE	2.30	0.62
45:WH:372:THR:HA	45:WH:422:TYR:HE2	1.64	0.62
45:WH:378:PHE:HA	45:WH:381:VAL:HG12	1.80	0.62
45:WJ:104:GLY:O	45:WJ:146:GLY:HA3	1.99	0.62
44:WM:9:VAL:HG13	44:WM:139:ASN:CB	2.30	0.62
3:0B:91:ASN:ND2	44:JG:365:GLY:HA3	2.10	0.62
8:0G:40:LEU:HD23	45:JL:356:ILE:HG21	1.80	0.62
8:0G:161:LYS:CE	44:KM:357:TYR:HB3	2.30	0.62
21:1K:194:LYS:H	45:GD:276:ARG:HH21	1.48	0.62
22:1L:308:ARG:NH1	44:BG:367:ASP:HA	2.14	0.62
26:1R:232:LEU:HD12	45:BF:77:ARG:HH12	1.64	0.62
16:4X:81:ARG:HD3	35:5R:15:HIS:CE1	2.34	0.62
37:5D:27:LYS:N	45:KN:395:LEU:HB2	2.15	0.62
39:5I:72:PHE:O	39:5I:75:ILE:HG13	2.00	0.62
39:5K:91:SER:HA	44:JM:430:LYS:CE	2.29	0.62
35:5R:17:PHE:O	45:LJ:217:LEU:HD22	1.98	0.62
35:5R:194:MET:HA	35:5R:194:MET:CE	2.30	0.62
41:6G:268:VAL:CG2	44:VA:338:LYS:HB3	2.28	0.62
35:6R:288:LYS:HZ1	44:CM:44:GLY:CA	2.12	0.62
35:6R:534:HIS:ND1	35:6R:578:TYR:CZ	2.63	0.62
42:8N:194:UNK:O	42:8N:198:UNK:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:69:ASP:OD2	44:AA:74:VAL:HG11	1.99	0.62
44:AA:328:VAL:O	44:AA:332:ILE:HG12	2.00	0.62
45:AB:21:TRP:CH2	45:AB:61:PRO:HB3	2.35	0.62
45:AD:73:MET:HE3	45:AD:92:PHE:HB3	1.82	0.62
44:AG:237:SER:HA	44:AG:320:ARG:CZ	2.29	0.62
45:AJ:268:ILE:HG22	45:AJ:368:VAL:HG22	1.81	0.62
45:AL:5:VAL:HG22	45:AL:133:PHE:CD1	2.34	0.62
45:BH:217:LEU:O	45:BH:217:LEU:HD12	2.00	0.62
44:BI:88:HIS:CD2	44:BI:89:PRO:HD3	2.34	0.62
45:CB:318:ARG:CD	45:CB:358:PRO:HD3	2.29	0.62
45:CD:65:LEU:HB3	45:CD:73:MET:HE2	1.82	0.62
45:CD:302:ALA:HB3	45:CD:377:MET:HE3	1.80	0.62
44:CG:88:HIS:ND1	44:CG:91:GLN:OE1	2.33	0.62
44:CG:352:LYS:HE2	44:CG:352:LYS:HA	1.82	0.62
45:CJ:148:GLY:O	45:CJ:152:ILE:HG12	2.00	0.62
45:CL:74:ASP:OD1	45:CL:77:ARG:NH2	2.33	0.62
45:CL:311:LEU:HA	45:CL:342:VAL:HG12	1.81	0.62
44:DA:82:THR:HA	44:DA:84:ARG:NH2	2.14	0.62
45:DF:217:LEU:HD12	45:DF:217:LEU:O	2.00	0.62
45:DH:183:TYR:CZ	45:DH:388:MET:HG2	2.35	0.62
45:DJ:116:VAL:O	45:DJ:119:VAL:HG12	1.99	0.62
45:DJ:304:ASP:OD1	45:DJ:305:PRO:HD2	1.99	0.62
45:DN:2:ARG:N	45:DN:129:CYS:HB3	2.14	0.62
44:EA:274:PRO:HG3	44:EA:291:ILE:HA	1.79	0.62
45:ED:385:PHE:CE2	45:ED:412:GLU:HB2	2.34	0.62
44:EE:324:VAL:HG21	44:EE:326:LYS:HE3	1.80	0.62
45:EL:302:ALA:HB3	45:EL:377:MET:CE	2.29	0.62
44:EM:98:ASP:OD1	44:EM:99:ALA:N	2.33	0.62
44:EM:145:THR:HG22	46:EM:501:GTP:PG	2.39	0.62
44:EM:413:MET:CE	44:EM:417:GLU:HB2	2.29	0.62
45:FB:154:LYS:O	45:FB:158:GLU:N	2.18	0.62
44:FC:349:THR:HG22	45:FF:384:GLN:HE21	1.65	0.62
45:FH:113:ILE:CD1	45:FH:150:LEU:HD22	2.29	0.62
45:FH:323:THR:O	45:FH:323:THR:HG22	2.00	0.62
45:FJ:4:ILE:HD11	45:FJ:50:TYR:OH	1.99	0.62
44:FK:200:VAL:HG22	44:FK:256:GLN:HB3	1.79	0.62
44:FM:22:GLU:O	44:FM:25:CYS:HB2	1.99	0.62
45:FN:130:LEU:HD21	45:FN:133:PHE:HZ	1.62	0.62
45:FN:395:LEU:HD12	45:FN:398:TYR:HB2	1.82	0.62
44:GA:217:LEU:HD22	44:GA:277:SER:HB3	1.82	0.62
45:GD:295:ASP:OD2	45:GD:297:LYS:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:245:GLN:HB2	45:GF:353:ILE:HB	1.80	0.62
44:GG:105:ARG:HD2	45:GH:251:ARG:NH2	2.15	0.62
45:GH:97:ALA:HB2	45:GH:143:THR:HB	1.80	0.62
44:GI:176:GLN:O	45:GJ:331:LEU:HD13	1.99	0.62
44:GK:251:ASP:HB2	44:GK:257:THR:CB	2.29	0.62
44:GM:140:SER:HA	44:GM:171:ILE:HB	1.82	0.62
44:GM:184:PRO:HA	44:GM:187:SER:OG	2.00	0.62
44:GM:320:ARG:CG	44:GM:374:ALA:HB3	2.29	0.62
44:GM:409:VAL:HG22	44:GM:414:GLU:O	1.99	0.62
45:GN:20:PHE:O	45:GN:23:VAL:HG22	2.00	0.62
45:GN:135:ILE:CG2	45:GN:152:ILE:HD11	2.28	0.62
44:HA:265:ILE:CD1	44:HA:435:VAL:HG21	2.28	0.62
45:HB:131:GLN:HE21	45:HB:250:LEU:HB2	1.65	0.62
45:HD:112:LEU:O	45:HD:112:LEU:HD23	2.00	0.62
44:HG:143:GLY:HA3	46:HG:501:GTP:O2B	1.99	0.62
45:HH:286:VAL:HG21	45:HH:325:GLU:HG2	1.81	0.62
45:HL:314:SER:HA	45:HL:350:LYS:HB3	1.81	0.62
44:HM:141:VAL:HG12	44:HM:171:ILE:O	1.99	0.62
45:IB:178:THR:O	45:IB:181:GLU:HG3	2.00	0.62
45:ID:318:ARG:HD3	45:ID:357:PRO:HA	1.82	0.62
44:IG:210:TYR:CG	45:IH:324:LYS:HD2	2.35	0.62
44:II:413:MET:SD	44:II:417:GLU:HB2	2.39	0.62
45:IJ:143:THR:HG22	48:IJ:502:GDP:O2B	2.00	0.62
45:IJ:167:PHE:CE2	45:IJ:233:MET:HG2	2.34	0.62
45:IL:178:THR:OG1	45:IL:181:GLU:HG2	2.00	0.62
45:IN:163:ILE:CD1	45:IN:250:LEU:HB2	2.30	0.62
44:JA:167:LEU:HD22	44:JA:200:VAL:CG2	2.30	0.62
44:JC:36:MET:SD	44:JC:38:SER:HB2	2.39	0.62
44:JI:271:SER:HA	44:JI:302:MET:HG3	1.81	0.62
45:JJ:272:PRO:HA	45:JJ:292:GLN:OE1	2.00	0.62
44:JK:105:ARG:O	44:JK:110:ILE:HG12	2.00	0.62
45:JL:218:THR:HG22	45:JL:219:THR:HG23	1.81	0.62
45:JL:285:THR:OG1	45:JL:287:PRO:HD2	2.00	0.62
44:JM:144:GLY:N	46:JM:501:GTP:O3B	2.32	0.62
44:KE:311:LYS:O	44:KE:382:THR:HG22	1.99	0.62
45:KF:269:GLY:HA2	45:KF:300:MET:HE3	1.82	0.62
44:KI:273:ALA:HA	44:KI:275:ILE:HD12	1.81	0.62
45:KJ:99:ASN:O	45:KJ:180:VAL:HG11	2.00	0.62
45:KJ:113:ILE:HD13	45:KJ:150:LEU:CD2	2.29	0.62
44:KK:181:VAL:HG22	45:KL:347:ASN:O	2.00	0.62
44:KK:259:LEU:HD11	44:KK:268:MET:CE	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:14:ASN:O	45:KL:18:ALA:N	2.29	0.62
45:KN:12:CYS:SG	45:KN:138:SER:HB3	2.40	0.62
45:KN:153:SER:HA	45:KN:195:ASN:HD22	1.63	0.62
45:LB:113:ILE:HD11	45:LB:151:LEU:HB2	1.81	0.62
45:LD:101:TRP:CE3	45:LD:187:LEU:HD13	2.35	0.62
45:LD:178:THR:O	45:LD:181:GLU:HG3	2.00	0.62
44:LE:413:MET:HG2	44:LE:417:GLU:HG3	1.80	0.62
44:LG:143:GLY:HA3	46:LG:501:GTP:O2B	2.00	0.62
44:LI:75:ILE:O	44:LI:78:VAL:HG12	2.00	0.62
44:LI:119:LEU:HD11	44:LI:156:ARG:CG	2.26	0.62
45:LL:389:PHE:O	45:LL:392:LYS:N	2.28	0.62
45:MB:77:ARG:HD3	45:MB:90:PHE:CZ	2.35	0.62
45:MF:244:GLY:HA2	45:MF:355:ASP:OD2	2.00	0.62
44:MG:6:SER:O	44:MG:7:ILE:HD13	1.99	0.62
45:MH:16:ILE:HA	45:MH:226:ASN:OD1	2.00	0.62
45:MH:64:ILE:HD13	45:MH:89:ASN:ND2	2.15	0.62
45:MJ:152:ILE:HD12	45:MJ:164:MET:CE	2.28	0.62
45:ML:287:PRO:HD3	45:ML:325:GLU:OE2	1.99	0.62
45:MN:139:LEU:HD22	45:MN:188:SER:OG	2.00	0.62
44:NA:247:ALA:HB1	45:ND:222:TYR:CE2	2.34	0.62
44:NA:396:ASP:HB2	44:NA:422:ARG:HH12	1.63	0.62
45:NB:4:ILE:HD13	45:NB:250:LEU:HD13	1.82	0.62
45:NB:54:ALA:CA	45:OB:283:ALA:HB2	2.15	0.62
44:NE:51:THR:HG22	44:NE:52:PHE:CD2	2.35	0.62
44:NE:56:THR:HG23	44:NE:58:ALA:H	1.64	0.62
44:NG:27:GLU:CD	44:NG:243:ARG:HH21	2.03	0.62
44:NK:136:LEU:HD22	44:NK:167:LEU:HB2	1.82	0.62
44:NM:166:LYS:O	44:NM:199:ASP:HB2	1.99	0.62
44:NM:306:ASP:HB3	44:NM:309:HIS:ND1	2.14	0.62
45:NN:44:LEU:HD23	45:NN:47:ILE:HD12	1.81	0.62
44:OA:385:ALA:HB2	44:OA:432:TYR:CD2	2.34	0.62
45:OB:113:ILE:HA	45:OB:116:VAL:HG12	1.82	0.62
44:OC:79:ARG:CD	44:OC:92:LEU:HD13	2.29	0.62
44:OC:227:LEU:HD12	44:OC:227:LEU:H	1.65	0.62
44:OC:262:TYR:HB3	44:OC:263:PRO:HD2	1.81	0.62
45:OF:4:ILE:HD12	45:OF:134:GLN:HE21	1.65	0.62
45:OH:211:CYS:O	45:OH:215:LEU:HB2	1.99	0.62
44:OI:16:VAL:HG12	44:OI:228:ASN:OD1	2.00	0.62
45:OJ:151:LEU:O	45:OJ:155:VAL:HG23	1.99	0.62
45:OJ:342:VAL:HG13	45:OJ:345:ILE:HG12	1.80	0.62
44:PA:254:GLU:HA	44:PA:257:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PA:269:LEU:N	44:PA:379:SER:O	2.29	0.62
45:PB:304:ASP:OD2	45:PB:306:ARG:NH1	2.33	0.62
45:PF:18:ALA:HA	45:PF:21:TRP:CE3	2.35	0.62
45:PF:86:ARG:HD2	45:QD:281:TYR:HB2	1.81	0.62
45:PH:52:ASN:ND2	45:PH:62:ARG:HE	1.97	0.62
44:PI:306:ASP:HB3	44:PI:309:HIS:CD2	2.34	0.62
45:PJ:130:LEU:HD22	45:PJ:162:ARG:CD	2.30	0.62
45:PJ:385:PHE:HE2	45:PJ:412:GLU:HB2	1.65	0.62
44:PK:5:ILE:O	44:PK:136:LEU:N	2.32	0.62
44:PK:14:ILE:CD1	44:PK:69:ASP:HB2	2.30	0.62
44:PK:171:ILE:HA	44:PK:204:LEU:HB2	1.82	0.62
45:PN:61:PRO:HD3	45:PN:84:LEU:HB3	1.80	0.62
44:QA:385:ALA:HB1	44:QA:429:GLU:OE1	2.00	0.62
45:QB:315:ALA:C	45:QB:316:LEU:HD12	2.20	0.62
45:QB:345:ILE:HG23	45:QB:348:ASN:ND2	2.13	0.62
44:QC:259:LEU:CD1	44:QC:316:SER:HB3	2.28	0.62
45:QF:170:VAL:HG23	45:QF:171:PRO:HD2	1.81	0.62
45:QF:258:ILE:HG22	45:QF:260:PHE:O	2.00	0.62
45:QH:167:PHE:HE1	45:QH:200:MET:HE2	1.64	0.62
45:QJ:139:LEU:HD12	45:QJ:188:SER:CB	2.29	0.62
45:QJ:185:ALA:O	45:QJ:189:VAL:HG13	2.00	0.62
45:QJ:329:GLN:O	45:QJ:333:VAL:HG23	1.99	0.62
45:QL:65:LEU:HD22	45:QL:90:PHE:CZ	2.34	0.62
44:QM:434:GLU:O	44:QM:437:ILE:HG12	1.99	0.62
44:RA:289:ALA:HA	44:RA:292:THR:HG22	1.80	0.62
44:RC:232:ALA:O	44:RC:236:SER:N	2.31	0.62
44:RE:23:LEU:HD22	44:RE:233:GLN:HA	1.81	0.62
44:RE:284:GLU:HG3	44:RE:286:LEU:CD2	2.27	0.62
45:RF:132:GLY:HA3	45:RF:163:ILE:CG1	2.30	0.62
44:RI:268:MET:HB2	44:RI:380:ASN:CA	2.30	0.62
45:RJ:21:TRP:HZ3	45:RJ:50:TYR:HB3	1.63	0.62
44:RK:226:ASN:O	44:RK:230:LEU:HD23	1.99	0.62
45:RL:258:ILE:HG13	45:RL:266:PHE:HZ	1.65	0.62
45:RL:288:GLU:O	45:RL:291:GLN:HG3	2.00	0.62
44:RM:285:GLN:NE2	44:RM:287:SER:HB2	2.15	0.62
45:RN:4:ILE:HG22	45:RN:132:GLY:N	2.15	0.62
45:RN:25:SER:HB3	45:RN:30:ILE:HB	1.81	0.62
45:RN:117:LEU:HB2	45:RN:120:VAL:CB	2.29	0.62
45:RN:408:PHE:HB3	45:RN:412:GLU:OE2	2.00	0.62
44:SA:321:GLY:HA3	44:SA:373:ARG:HH12	1.64	0.62
44:SC:24:PHE:CE1	44:SC:236:SER:HB2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:268:MET:HB2	44:SC:379:SER:O	1.99	0.62
45:SD:150:LEU:HD23	45:SD:154:LYS:HG3	1.80	0.62
45:SD:268:ILE:CG2	45:SD:368:VAL:HG22	2.29	0.62
44:SG:258:ASN:O	44:SG:259:LEU:HD22	2.00	0.62
45:SJ:302:ALA:HB3	45:SJ:377:MET:CE	2.27	0.62
44:SK:329:ASN:HB3	45:SL:175:VAL:CG1	2.30	0.62
44:SM:254:GLU:O	44:SM:258:ASN:ND2	2.30	0.62
45:SN:375:GLN:OE1	45:SN:423:GLN:HB3	1.99	0.62
44:TA:74:VAL:O	44:TA:78:VAL:HG23	2.00	0.62
45:TB:212:PHE:HE1	45:TB:220:PRO:HG2	1.64	0.62
45:TB:388:MET:HA	45:TB:388:MET:CE	2.30	0.62
44:TC:54:SER:OG	44:TC:62:VAL:HB	2.00	0.62
44:TC:260:VAL:HG13	44:TC:265:ILE:O	2.00	0.62
45:TD:231:ALA:HA	45:TD:234:SER:HB3	1.81	0.62
45:TF:345:ILE:O	45:TF:345:ILE:HG23	1.98	0.62
45:TJ:73:MET:HA	45:TJ:76:VAL:HG12	1.82	0.62
45:TJ:324:LYS:HD3	44:TK:222:PRO:HG2	1.81	0.62
45:TL:274:THR:HG21	45:TL:279:GLN:HG3	1.80	0.62
45:TN:20:PHE:O	45:TN:24:ILE:HG12	1.99	0.62
44:UC:1:MET:SD	45:UD:70:PRO:HG2	2.39	0.62
45:UD:138:SER:OG	48:UD:501:GDP:H4'	2.00	0.62
45:UD:268:ILE:CG2	45:UD:368:VAL:HG12	2.20	0.62
45:UD:316:LEU:O	45:UD:365:VAL:HA	2.00	0.62
45:UF:3:GLU:HB2	45:UF:49:VAL:O	2.00	0.62
45:UF:136:THR:HG22	45:UF:167:PHE:CB	2.29	0.62
45:UF:172:SER:OG	45:UF:174:LYS:HG3	1.98	0.62
44:UG:89:PRO:HG3	44:VE:280:LYS:CD	2.29	0.62
45:UH:2:ARG:NH2	45:UH:240:LEU:HG	2.15	0.62
45:UJ:253:LEU:O	45:UJ:257:LEU:HD13	2.00	0.62
45:UJ:325:GLU:HB3	44:UK:221:ARG:NH1	2.14	0.62
44:UM:201:ALA:HB3	44:UM:267:PHE:HA	1.82	0.62
45:UN:238:CYS:HA	45:UN:241:ARG:CZ	2.30	0.62
44:VA:4:VAL:HG23	44:VA:134:GLY:C	2.19	0.62
45:VB:7:ILE:CG1	45:VB:64:ILE:HB	2.27	0.62
45:VB:282:ARG:NH2	45:VB:292:GLN:OE1	2.29	0.62
44:VC:102:ASN:ND2	44:VC:105:ARG:HG3	2.15	0.62
45:VF:2:ARG:NE	45:VF:240:LEU:HG	2.15	0.62
45:VF:285:THR:CB	45:VF:287:PRO:HD2	2.29	0.62
45:VH:341:PHE:CE2	45:VH:349:ILE:HD11	2.35	0.62
45:VH:379:LYS:O	45:VH:383:GLU:N	2.33	0.62
44:VM:201:ALA:HB3	44:VM:267:PHE:HD1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:4:ILE:HD11	45:WF:50:TYR:OH	2.00	0.62
44:WI:31:GLN:HG3	44:WI:32:PRO:CD	2.29	0.62
44:WI:141:VAL:HG12	44:WI:171:ILE:O	1.99	0.62
44:WI:158:SER:HB3	44:WI:197:HIS:CE1	2.34	0.62
44:WK:432:TYR:HA	44:WK:435:VAL:CG1	2.30	0.62
44:WM:3:GLU:CA	44:WM:51:THR:HA	2.26	0.62
44:WM:403:ALA:HB2	45:WN:260:PHE:CZ	2.33	0.62
44:WM:406:HIS:CD2	45:WN:261:PRO:HD3	2.34	0.62
45:WN:105:HIS:CD2	45:WN:150:LEU:HB2	2.34	0.62
45:WN:287:PRO:HA	45:WN:290:THR:HG22	1.82	0.62
2:0A:39:TYR:CD2	44:MA:77:GLU:HG3	2.34	0.62
3:0B:46:PHE:CE2	45:JH:77:ARG:HB2	2.35	0.62
15:0V:36:SER:HA	44:MM:211:ASP:OD2	2.00	0.62
22:1L:65:LYS:NZ	44:BI:279:GLU:HG3	2.15	0.62
22:1L:284:ILE:HG21	45:BH:320:ARG:HD2	1.81	0.62
25:1P:341:LEU:HD21	44:TC:26:LEU:CD2	2.29	0.62
25:1P:388:THR:OG1	44:TA:372:MET:HE2	2.00	0.62
25:1P:396:VAL:HG22	44:TA:278:ALA:HB1	1.80	0.62
26:1R:418:ARG:NH1	44:EC:43:GLY:HA2	2.13	0.62
15:1V:73:ARG:HG2	45:LJ:121:ARG:HH12	1.65	0.62
2:2A:39:TYR:CE2	44:MI:78:VAL:HA	2.29	0.62
26:2R:289:ASN:H	45:DH:218:THR:HG22	1.64	0.62
16:3X:8:TYR:HB2	44:MM:357:TYR:CE1	2.34	0.62
37:5D:109:ASN:N	44:NM:281:ALA:N	2.48	0.62
38:5F:44:ARG:HB2	44:OC:285:GLN:NE2	2.15	0.62
38:5H:47:GLU:OE2	44:OK:324:VAL:HG22	2.00	0.62
36:5S:65:PHE:HE1	36:5S:74:LEU:HD11	1.63	0.62
36:5S:144:ILE:CG2	36:5S:145:PRO:HD3	2.27	0.62
40:6F:138:TYR:HD2	40:6F:141:THR:H	1.46	0.62
35:6R:536:ARG:HH11	35:6R:609:LEU:HA	1.64	0.62
35:7R:509:ASP:HB3	35:7R:512:THR:OG1	2.00	0.62
44:AC:242:LEU:HD11	44:AC:252:ILE:CD1	2.30	0.62
45:AF:16:ILE:HG21	45:AF:136:THR:HG21	1.80	0.62
44:AG:280:LYS:NZ	44:MG:90:GLU:HB3	2.14	0.62
44:AI:270:SER:O	44:AI:302:MET:HB2	1.99	0.62
44:AK:31:GLN:HB3	44:AK:32:PRO:HD2	1.81	0.62
45:AL:242:PHE:CD1	45:AL:356:ILE:HG13	2.35	0.62
44:AM:237:SER:HA	44:AM:320:ARG:CZ	2.28	0.62
44:AM:241:SER:HA	44:AM:356:ASN:ND2	2.15	0.62
44:BA:79:ARG:HH21	44:BA:92:LEU:HB2	1.64	0.62
44:BC:151:SER:HB2	44:BC:193:SER:OG	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BC:328:VAL:HG11	44:BC:353:VAL:CG2	2.19	0.62
45:BD:390:ARG:HH22	45:BD:391:ARG:CG	2.11	0.62
45:BF:259:PRO:HD2	45:BF:263:LEU:HD23	1.81	0.62
44:BG:407:TRP:HH2	45:BH:254:ALA:HB1	1.65	0.62
45:BH:113:ILE:HA	45:BH:116:VAL:HG12	1.82	0.62
44:BI:132:LEU:CD2	44:BI:164:LYS:HE2	2.30	0.62
45:BJ:137:HIS:CE1	45:BJ:166:THR:HB	2.35	0.62
44:BK:141:VAL:HG11	44:BK:172:TYR:CD1	2.33	0.62
45:BL:345:ILE:HG23	45:BL:345:ILE:O	1.98	0.62
44:BM:88:HIS:HB3	44:BM:91:GLN:CG	2.30	0.62
45:BN:290:THR:HA	45:BN:293:MET:CE	2.30	0.62
45:BN:314:SER:HB3	45:BN:368:VAL:HG23	1.81	0.62
44:CA:77:GLU:HA	44:CA:80:THR:OG1	2.00	0.62
44:CA:248:LEU:N	44:CA:355:ILE:HD11	2.15	0.62
45:CF:377:MET:O	45:CF:380:ARG:HG2	1.99	0.62
44:CG:210:TYR:CE1	44:CG:227:LEU:HD21	2.35	0.62
45:CH:310:TYR:CD2	45:CH:371:SER:HB2	2.35	0.62
45:CJ:256:ASN:ND2	45:CJ:350:LYS:HD2	2.14	0.62
45:CJ:423:GLN:NE2	45:CJ:427:ASP:OD2	2.33	0.62
44:CK:21:TRP:O	44:CK:25:CYS:N	2.22	0.62
44:CM:9:VAL:HG13	44:CM:139:ASN:HB3	1.81	0.62
45:CN:7:ILE:HG12	45:CN:64:ILE:HD13	1.82	0.62
44:DA:419:SER:O	44:DA:423:GLU:HG3	1.99	0.62
44:DC:240:ALA:HA	44:DC:243:ARG:HE	1.64	0.62
44:DC:371:VAL:HG12	44:DC:373:ARG:H	1.65	0.62
45:DF:322:SER:HB3	44:DG:221:ARG:CD	2.29	0.62
45:DH:274:THR:OG1	45:DH:282:ARG:NH1	2.33	0.62
44:DI:203:MET:HE3	44:DI:203:MET:HA	1.82	0.62
44:DI:395:PHE:CD2	44:DI:422:ARG:HD3	2.35	0.62
45:DL:146:GLY:O	45:DL:149:THR:HG22	2.00	0.62
45:DL:388:MET:HG2	45:DL:393:ALA:HB3	1.81	0.62
45:DL:395:LEU:HG	45:DL:399:THR:CG2	2.29	0.62
45:DN:97:ALA:CB	45:DN:143:THR:HB	2.27	0.62
44:EA:9:VAL:HA	44:EA:68:LEU:O	2.00	0.62
44:EA:53:PHE:CD1	44:EA:63:PRO:HA	2.35	0.62
44:EA:313:MET:HG2	44:EA:346:TRP:HH2	1.63	0.62
45:EB:205:GLU:O	45:EB:208:TYR:HB2	1.99	0.62
44:EC:417:GLU:O	44:EC:420:GLU:HG2	1.99	0.62
45:ED:24:ILE:HG22	45:ED:51:TYR:OH	1.99	0.62
44:EI:268:MET:HB3	44:EI:380:ASN:OD1	1.99	0.62
45:EL:50:TYR:HE2	45:EL:241:ARG:HD3	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:154:LEU:HD22	44:EM:166:LYS:HD2	1.81	0.62
44:FA:257:THR:HA	45:FD:397:TRP:NE1	2.15	0.62
45:FB:24:ILE:HA	45:FB:27:GLU:CG	2.30	0.62
45:FB:110:ALA:HA	45:FB:113:ILE:HD11	1.80	0.62
45:FB:309:ARG:HD3	45:FB:342:VAL:CA	2.29	0.62
45:FD:117:LEU:HG	45:FD:121:ARG:HH12	1.64	0.62
45:FH:65:LEU:HB3	45:FH:73:MET:SD	2.40	0.62
44:FI:11:GLN:HG3	44:FI:74:VAL:CG1	2.29	0.62
44:FK:277:SER:HA	44:FK:369:ALA:CB	2.27	0.62
45:FN:103:LYS:C	45:FN:108:GLU:HB2	2.19	0.62
45:FN:271:ALA:HB1	45:FN:272:PRO:HA	1.82	0.62
44:GA:181:VAL:N	45:GB:256:ASN:HD21	1.97	0.62
44:GA:316:SER:HB3	44:GA:378:ILE:CG2	2.30	0.62
44:GG:69:ASP:OD1	44:GG:70:LEU:N	2.33	0.62
44:GI:210:TYR:CE2	44:GI:227:LEU:HD21	2.27	0.62
44:GI:288:VAL:HG11	44:GI:327:ASP:CG	2.19	0.62
45:GJ:8:GLN:HE21	45:GJ:65:LEU:HG	1.64	0.62
44:GK:171:ILE:HG12	44:GK:204:LEU:CB	2.30	0.62
45:GL:404:ASP:OD2	45:GL:406:MET:HB2	1.99	0.62
44:GM:107:HIS:CD2	44:GM:152:LEU:HD13	2.35	0.62
45:HB:32:PRO:HG3	45:HB:81:PHE:CE1	2.35	0.62
45:HD:286:VAL:N	45:HD:287:PRO:HD2	2.15	0.62
44:HE:101:ASN:ND2	45:HF:252:LYS:HG3	2.14	0.62
44:HG:1:MET:SD	45:HJ:70:PRO:HG3	2.40	0.62
44:HG:354:GLY:O	44:HG:355:ILE:HD13	2.00	0.62
44:HI:14:ILE:HG21	44:HI:74:VAL:HG22	1.82	0.62
45:HJ:12:CYS:O	45:HJ:16:ILE:HG12	2.00	0.62
45:HL:178:THR:HB	45:HL:181:GLU:HG3	1.81	0.62
44:HM:344:VAL:HG11	44:HM:346:TRP:NE1	2.15	0.62
44:IA:115:VAL:HG22	44:IA:119:LEU:CD2	2.30	0.62
45:IB:117:LEU:HA	45:IB:120:VAL:HB	1.82	0.62
45:IB:313:ALA:HB3	45:IB:349:ILE:CA	2.29	0.62
44:IE:87:PHE:HB3	44:IE:91:GLN:NE2	2.14	0.62
44:IE:88:HIS:CE1	45:JF:281:TYR:HB3	2.35	0.62
45:IF:314:SER:CB	45:IF:350:LYS:HB3	2.30	0.62
44:II:311:LYS:CD	44:II:342:GLN:HG3	2.30	0.62
45:IJ:19:LYS:HG3	45:IJ:23:VAL:CG2	2.28	0.62
44:JA:170:THR:HG1	44:JA:172:TYR:HE1	1.46	0.62
45:JB:143:THR:HG22	48:JB:501:GDP:O3B	1.99	0.62
45:JB:143:THR:N	48:JB:501:GDP:O1B	2.33	0.62
44:JC:319:TYR:CE2	44:JC:328:VAL:HG22	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:49:VAL:HG21	45:JD:240:LEU:CD2	2.30	0.62
45:JD:189:VAL:HG21	45:JD:378:PHE:CZ	2.35	0.62
45:JD:372:THR:HA	45:JD:422:TYR:CE2	2.34	0.62
45:JD:398:TYR:O	45:JD:403:MET:HB2	2.00	0.62
44:JE:265:ILE:HG12	44:JE:432:TYR:CE1	2.35	0.62
44:JI:287:SER:O	44:JI:291:ILE:HG23	2.00	0.62
44:JK:259:LEU:HB3	44:JK:268:MET:HE1	1.82	0.62
45:JN:143:THR:HG22	48:JN:501:GDP:O2B	2.00	0.62
45:KF:284:LEU:CD2	45:KF:362:LYS:HB2	2.30	0.62
45:KH:304:ASP:OD2	45:KH:306:ARG:NH1	2.33	0.62
44:KI:174:SER:OG	44:KI:207:GLU:OE1	2.18	0.62
45:KJ:162:ARG:HE	45:KJ:162:ARG:HA	1.65	0.62
44:KM:145:THR:HG22	46:KM:501:GTP:PG	2.40	0.62
44:KM:210:TYR:O	44:KM:214:ARG:N	2.31	0.62
44:KM:213:CYS:O	44:KM:217:LEU:HB2	1.98	0.62
44:LA:155:GLU:HA	44:LA:197:HIS:HD2	1.62	0.62
44:LA:319:TYR:HD2	44:LA:323:VAL:HG11	1.65	0.62
44:LC:434:GLU:O	44:LC:437:ILE:HG22	2.00	0.62
44:LG:298:PRO:HG3	44:LG:308:ARG:HE	1.65	0.62
45:LL:295:ASP:OD1	45:LL:297:LYS:HG2	2.00	0.62
44:MC:217:LEU:HD13	44:MC:367:ASP:HB3	1.81	0.62
44:MG:271:SER:HB2	44:MG:377:MET:SD	2.40	0.62
45:MJ:22:GLU:HG2	45:MJ:81:PHE:CG	2.35	0.62
45:NB:132:GLY:HA2	45:NB:162:ARG:HB3	1.82	0.62
45:NF:197:ASP:O	45:NF:264:HIS:HB2	1.98	0.62
44:NG:34:GLY:O	44:NG:60:LYS:HA	1.99	0.62
44:NG:326:LYS:HA	45:NJ:208:TYR:CE2	2.35	0.62
45:NJ:101:TRP:CZ3	45:NJ:187:LEU:HD13	2.35	0.62
45:NJ:318:ARG:HB3	45:NJ:358:PRO:HD2	1.80	0.62
44:NM:271:SER:HB2	44:NM:377:MET:HE3	1.81	0.62
44:NM:318:MET:HA	44:NM:354:GLY:O	1.99	0.62
44:OA:28:HIS:NE2	44:OA:243:ARG:HD2	2.15	0.62
45:OB:105:HIS:NE2	45:OB:150:LEU:HB2	2.14	0.62
44:OC:310:GLY:HA3	44:OC:383:ALA:HB2	1.80	0.62
45:OF:113:ILE:O	45:OF:117:LEU:HD23	2.00	0.62
45:OF:276:ARG:HD3	45:OF:276:ARG:O	1.98	0.62
44:OG:88:HIS:HD2	44:OG:91:GLN:HG3	1.65	0.62
44:OG:305:CYS:SG	44:OG:383:ALA:HB1	2.39	0.62
44:OG:330:ALA:O	44:OG:334:THR:N	2.32	0.62
45:OH:266:PHE:CE1	45:OH:370:ASN:HB2	2.35	0.62
44:OI:188:ILE:CD1	44:OI:425:LEU:HD22	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:417:GLU:HA	44:OK:420:GLU:OE2	1.99	0.62
44:PA:71:GLU:OE1	45:PB:247:ASN:ND2	2.32	0.62
44:PC:13:GLY:O	44:PC:16:VAL:HG12	1.99	0.62
44:PC:288:VAL:HG11	44:PC:327:ASP:CB	2.19	0.62
45:PH:315:ALA:C	45:PH:316:LEU:HD12	2.20	0.62
45:PJ:73:MET:HA	45:PJ:76:VAL:CG1	2.30	0.62
45:PJ:170:VAL:HG13	45:PJ:203:ASP:OD1	1.99	0.62
45:PL:135:ILE:HB	45:PL:166:THR:HA	1.82	0.62
45:PN:164:MET:O	45:PN:198:GLU:N	2.30	0.62
45:QB:113:ILE:HD13	45:QB:150:LEU:CD2	2.29	0.62
45:QB:167:PHE:HD1	45:QB:200:MET:HB2	1.65	0.62
45:QF:68:LEU:HD13	45:QF:143:THR:CG2	2.28	0.62
45:QF:291:GLN:HE22	45:QF:292:GLN:HG2	1.65	0.62
45:QH:179:VAL:HG21	45:QH:394:PHE:HE2	1.64	0.62
44:QI:118:CYS:O	44:QI:122:ILE:HG12	2.00	0.62
45:QJ:310:TYR:CD1	45:QJ:371:SER:HB2	2.35	0.62
45:QJ:313:ALA:HB3	45:QJ:349:ILE:HG23	1.82	0.62
44:QK:240:ALA:O	44:QK:244:PHE:N	2.33	0.62
45:QL:102:ALA:HB2	45:QL:403:MET:HG3	1.82	0.62
44:QM:393:HIS:O	44:QM:397:LEU:HG	1.99	0.62
45:QN:19:LYS:O	45:QN:22:GLU:HB2	1.98	0.62
44:RA:51:THR:HB	44:RA:243:ARG:HD3	1.82	0.62
44:RA:352:LYS:HA	45:RB:177:ASP:O	1.99	0.62
45:RB:65:LEU:HD22	45:RB:90:PHE:CE1	2.35	0.62
45:RB:148:GLY:O	45:RB:152:ILE:HG12	2.00	0.62
45:RB:178:THR:HG22	45:RB:180:VAL:H	1.65	0.62
45:RB:262:ARG:HH12	45:RB:421:GLU:HG2	1.63	0.62
45:RD:32:PRO:HD2	45:RD:33:THR:N	2.10	0.62
45:RD:77:ARG:O	45:RD:77:ARG:HD3	2.00	0.62
44:RE:75:ILE:HD12	44:RE:92:LEU:HG	1.82	0.62
44:RI:276:ILE:HD11	44:RI:280:LYS:O	2.00	0.62
44:RK:24:PHE:HZ	44:RK:235:ILE:HG22	1.63	0.62
45:RL:268:ILE:HG13	45:RL:300:MET:HE3	1.82	0.62
44:RM:298:PRO:HB3	44:RM:307:PRO:CG	2.30	0.62
45:RN:12:CYS:HB3	45:RN:138:SER:HB3	1.81	0.62
45:RN:190:HIS:CG	45:RN:411:ALA:HA	2.34	0.62
45:RN:238:CYS:SG	45:RN:316:LEU:HB3	2.40	0.62
45:RN:409:THR:HA	45:RN:412:GLU:HB2	1.82	0.62
44:SA:228:ASN:O	44:SA:231:ILE:N	2.32	0.62
44:SA:312:TYR:CD2	44:SA:341:ILE:HG23	2.35	0.62
44:SA:352:LYS:HA	45:SB:177:ASP:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:314:SER:OG	45:SB:350:LYS:HB3	2.00	0.62
44:SE:66:VAL:HG11	44:SE:122:ILE:HD11	1.80	0.62
44:SE:66:VAL:HB	44:SE:121:ARG:HG2	1.81	0.62
44:SE:156:ARG:O	44:SE:160:ASP:N	2.28	0.62
44:SE:174:SER:HB3	44:SE:207:GLU:HB2	1.82	0.62
44:SE:278:ALA:HB2	44:SE:369:ALA:HB1	1.81	0.62
45:SF:52:ASN:OD1	45:SF:53:GLU:N	2.33	0.62
45:SF:206:ALA:HA	45:SF:209:ASP:HB3	1.81	0.62
44:SG:12:GLY:N	46:SG:501:GTP:O2A	2.29	0.62
45:SH:12:CYS:SG	45:SH:138:SER:HB2	2.40	0.62
44:SI:91:GLN:O	44:SI:93:ILE:HD12	2.00	0.62
44:SI:269:LEU:H	44:SI:269:LEU:HD23	1.64	0.62
44:SK:105:ARG:HG2	44:SK:411:GLU:OE1	2.00	0.62
44:SM:344:VAL:HG11	44:SM:346:TRP:CZ3	2.34	0.62
45:SN:86:ARG:CG	45:SN:87:PRO:HD2	2.30	0.62
45:SN:411:ALA:HA	45:SN:414:ASN:ND2	2.12	0.62
44:TG:320:ARG:HD2	44:TG:360:PRO:CG	2.28	0.62
45:TH:222:TYR:O	45:TH:226:ASN:N	2.29	0.62
44:TI:67:PHE:O	44:TI:68:LEU:HD12	2.00	0.62
45:TJ:149:THR:OG1	45:TJ:191:GLN:NE2	2.32	0.62
44:TK:11:GLN:HB3	46:TK:501:GTP:O2A	2.00	0.62
44:TK:171:ILE:CD1	44:TK:204:LEU:HB2	2.30	0.62
44:TK:289:ALA:HA	44:TK:292:THR:CG2	2.30	0.62
44:TM:101:ASN:HA	44:TM:144:GLY:HA3	1.82	0.62
45:UB:4:ILE:HD11	45:UB:50:TYR:OH	2.00	0.62
45:UB:324:LYS:HD3	44:UC:222:PRO:CD	2.30	0.62
44:UC:14:ILE:O	44:UC:18:ASN:N	2.32	0.62
44:UC:250:VAL:HG12	44:UC:255:PHE:HE1	1.64	0.62
45:UD:173:PRO:HG2	45:UD:380:ARG:HB2	1.81	0.62
44:UE:151:SER:HB3	44:UE:193:SER:OG	2.00	0.62
45:UF:174:LYS:CE	45:UF:175:VAL:HG22	2.30	0.62
44:UG:246:GLY:HA2	44:UG:357:TYR:CE2	2.35	0.62
45:UH:21:TRP:CH2	45:UH:61:PRO:HB3	2.35	0.62
45:UH:242:PHE:CD2	45:UH:356:ILE:HG13	2.34	0.62
45:UJ:180:VAL:HG23	45:UJ:183:TYR:HD2	1.64	0.62
45:UL:221:THR:HG23	45:UL:223:GLY:H	1.64	0.62
44:UM:265:ILE:HD12	44:UM:435:VAL:HG21	1.81	0.62
45:VD:334:GLN:HB3	45:VD:349:ILE:HD11	1.81	0.62
44:VE:6:SER:O	44:VE:7:ILE:HD13	2.00	0.62
44:VE:210:TYR:HE1	44:VE:227:LEU:HD11	1.64	0.62
45:VF:406:MET:O	45:VF:410:GLU:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:299:MET:SD	45:VH:305:PRO:HG3	2.39	0.62
45:VH:303:ALA:O	45:VH:305:PRO:HD3	1.99	0.62
44:VI:54:SER:HB3	44:VI:64:ARG:NH2	2.14	0.62
44:VK:102:ASN:HB3	44:VK:105:ARG:HG3	1.82	0.62
44:VK:386:GLU:HA	44:VK:389:SER:OG	1.99	0.62
44:VM:9:VAL:HG13	44:VM:139:ASN:HB3	1.82	0.62
45:VN:42:LEU:HA	45:VN:45:GLU:CG	2.28	0.62
44:WA:408:TYR:HB3	44:WA:413:MET:CE	2.27	0.62
44:WC:329:ASN:ND2	45:WF:175:VAL:HB	2.15	0.62
45:WD:2:ARG:HH12	45:WD:46:ARG:HH12	1.44	0.62
45:WD:314:SER:CB	45:WD:350:LYS:HB3	2.30	0.62
45:WF:286:VAL:HB	45:WF:287:PRO:CD	2.29	0.62
44:WG:213:CYS:O	44:WG:217:LEU:HB2	1.99	0.62
44:WI:203:MET:CE	44:WI:204:LEU:H	2.12	0.62
44:WK:258:ASN:OD1	44:WK:352:LYS:HE2	2.00	0.62
44:WM:222:PRO:HD2	45:WN:324:LYS:HB3	1.81	0.62
45:WN:230:SER:O	45:WN:233:MET:N	2.33	0.62
45:WN:344:TRP:HH2	45:WN:425:TYR:HB3	1.65	0.62
22:1L:45:ARG:HB3	45:BJ:362:LYS:CE	2.29	0.62
22:1L:668:GLN:NE2	44:CE:367:ASP:HA	2.14	0.62
30:2G:14:TYR:OH	44:KG:339:ARG:HA	1.99	0.62
21:2K:375:VAL:HG11	44:GG:372:MET:CE	2.30	0.62
24:2O:257:GLN:HB3	44:UI:58:ALA:HB3	1.81	0.62
12:2S:261:LEU:HD13	45:AJ:424:GLN:HB2	1.79	0.62
2:3A:33:GLN:HE21	45:MN:357:PRO:HG2	1.65	0.62
28:4C:67:LYS:HD3	44:LM:82:THR:N	2.11	0.62
28:4C:297:ASP:O	45:KN:320:ARG:NH2	2.20	0.62
34:4F:147:HIS:CG	45:IN:80:PRO:HD3	2.34	0.62
37:5D:20:LEU:CD2	45:KN:419:VAL:HB	2.28	0.62
11:5Q:73:LEU:HD22	11:5Q:169:ASP:OD2	1.99	0.62
35:5R:80:ARG:NH1	35:5R:80:ARG:HB2	2.15	0.62
35:5R:134:ILE:HB	35:5R:137:SER:HB3	1.81	0.62
35:6R:455:VAL:HB	35:6R:471:LEU:HB2	1.82	0.62
35:7R:230:GLU:HA	35:7R:233:GLU:OE2	2.00	0.62
44:AA:141:VAL:HG11	44:AA:172:TYR:CE1	2.35	0.62
45:AF:100:ASN:ND2	45:AF:102:ALA:HB3	2.14	0.62
44:AG:348:PRO:HD2	45:AJ:388:MET:CE	2.30	0.62
44:AK:288:VAL:HG11	44:AK:327:ASP:CB	2.30	0.62
44:AM:88:HIS:ND1	44:AM:89:PRO:HD2	2.15	0.62
44:AM:404:PHE:CE1	45:AN:259:PRO:HA	2.34	0.62
45:AN:232:ALA:HB1	45:AN:268:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:131:GLN:O	45:BD:163:ILE:HG12	1.99	0.62
45:BH:135:ILE:HG13	45:BH:152:ILE:HD11	1.82	0.62
44:BI:296:PHE:HE2	44:BI:377:MET:HE3	1.65	0.62
44:BK:252:ILE:HA	44:BK:255:PHE:CD1	2.34	0.62
44:CA:91:GLN:HG2	44:CA:121:ARG:HD2	1.81	0.62
45:CB:35:THR:O	45:CB:37:HIS:ND1	2.33	0.62
44:CC:209:ILE:HG12	44:CC:302:MET:SD	2.40	0.62
45:CD:67:ASP:OD1	45:CD:68:LEU:N	2.33	0.62
45:CD:69:GLU:OE1	45:CD:71:GLY:N	2.32	0.62
44:CE:51:THR:OG1	44:CE:243:ARG:HB3	1.99	0.62
44:CE:76:ASP:OD1	44:CE:79:ARG:NH2	2.32	0.62
45:CF:12:CYS:O	45:CF:16:ILE:HG12	2.00	0.62
45:CF:61:PRO:HD2	45:CF:84:LEU:O	2.00	0.62
44:CG:51:THR:HG22	44:CG:52:PHE:CD1	2.35	0.62
44:CK:269:LEU:HB2	44:CK:303:ALA:CB	2.29	0.62
44:CM:11:GLN:HG2	46:CM:501:GTP:O1B	1.99	0.62
44:CM:88:HIS:CG	44:CM:89:PRO:HD2	2.35	0.62
44:CM:288:VAL:HA	44:CM:291:ILE:CD1	2.30	0.62
45:CN:235:GLY:HA2	45:CN:238:CYS:SG	2.40	0.62
45:DB:6:HIS:HB2	45:DB:134:GLN:HG3	1.82	0.62
44:DC:35:GLN:NE2	44:DC:59:GLY:HA2	2.15	0.62
45:DD:72:THR:O	45:DD:75:SER:OG	2.12	0.62
44:DE:11:GLN:NE2	46:DE:501:GTP:O3A	2.33	0.62
44:DE:11:GLN:HE22	46:DE:501:GTP:PG	2.22	0.62
45:DH:139:LEU:CD1	45:DH:188:SER:HB2	2.20	0.62
44:DI:20:CYS:HA	44:DI:232:ALA:HB1	1.81	0.62
45:DL:163:ILE:HA	45:DL:197:ASP:OD2	2.00	0.62
44:EA:92:LEU:HD12	44:EA:92:LEU:O	2.00	0.62
45:EB:114:ASP:OD1	45:EB:115:SER:N	2.32	0.62
45:EB:260:PHE:CE1	44:EC:403:ALA:HA	2.34	0.62
45:EB:324:LYS:HA	44:EC:210:TYR:HE2	1.65	0.62
44:EC:288:VAL:O	44:EC:292:THR:OG1	2.16	0.62
44:EE:333:ALA:HA	44:EE:336:LYS:NZ	2.15	0.62
45:EH:109:GLY:HA2	45:EH:147:MET:SD	2.40	0.62
45:EH:256:ASN:C	45:EH:257:LEU:HD12	2.19	0.62
45:EJ:102:ALA:HB1	45:EJ:401:GLU:HB2	1.82	0.62
45:EL:86:ARG:HH12	45:FL:278:SER:HA	1.64	0.62
45:EN:204:ASN:O	45:EN:207:LEU:HB2	2.00	0.62
44:FA:186:ASN:OD1	44:FA:187:SER:N	2.32	0.62
44:FA:296:PHE:HE2	44:FA:335:ILE:HG13	1.65	0.62
44:FC:183:GLU:N	44:FC:184:PRO:HD2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FC:206:ASN:HA	44:FC:209:ILE:HD12	1.82	0.62
44:FC:215:ARG:NH2	44:FC:300:ASN:OD1	2.33	0.62
44:FE:1:MET:O	44:FE:2:ARG:HD3	1.99	0.62
45:FF:163:ILE:HD11	45:FF:251:ARG:CG	2.30	0.62
44:FG:324:VAL:O	44:FG:328:VAL:HG23	1.99	0.62
44:FK:132:LEU:HD11	44:FK:135:PHE:HE1	1.65	0.62
45:FN:118:ASP:O	45:FN:122:LYS:HG3	2.00	0.62
44:GA:108:TYR:HA	44:GA:112:LYS:HE3	1.80	0.62
45:GD:202:ILE:HD11	45:GD:268:ILE:CD1	2.25	0.62
44:GG:311:LYS:O	44:GG:381:SER:HB2	2.00	0.62
45:GH:7:ILE:HG12	45:GH:64:ILE:HB	1.82	0.62
45:GH:314:SER:CB	45:GH:350:LYS:HB3	2.30	0.62
44:GI:174:SER:HB3	44:GI:175:PRO:HD2	1.82	0.62
45:GJ:113:ILE:HA	45:GJ:116:VAL:CG1	2.28	0.62
45:GJ:318:ARG:NH1	45:GJ:358:PRO:HG3	2.14	0.62
45:GJ:342:VAL:HG13	45:GJ:345:ILE:HG22	1.81	0.62
44:GK:88:HIS:HE1	44:GK:90:GLU:HB3	1.65	0.62
45:HF:182:PRO:HG2	45:HF:388:MET:CE	2.30	0.62
44:HI:88:HIS:O	44:HI:91:GLN:HG2	2.00	0.62
44:HI:315:CYS:SG	44:HI:379:SER:HB3	2.39	0.62
44:HM:150:GLY:O	44:HM:154:LEU:N	2.29	0.62
44:HM:428:LEU:HG	44:HM:432:TYR:CE2	2.35	0.62
45:HN:221:THR:HG23	45:HN:224:ASP:H	1.64	0.62
44:IA:191:THR:HG21	44:IA:425:LEU:HD21	1.81	0.62
45:IB:6:HIS:HB2	45:IB:134:GLN:HE21	1.65	0.62
45:IB:69:GLU:HA	45:IB:93:GLY:O	1.99	0.62
45:IB:205:GLU:O	45:IB:208:TYR:HB2	1.99	0.62
45:IH:5:VAL:HG12	45:IH:62:ARG:HD3	1.82	0.62
45:IH:372:THR:HA	45:IH:422:TYR:OH	2.00	0.62
44:II:22:GLU:HG3	44:II:83:TYR:CE2	2.35	0.62
44:II:247:ALA:HB1	45:IL:222:TYR:CD2	2.35	0.62
45:IJ:12:CYS:HB3	45:IJ:138:SER:HB2	1.81	0.62
44:JA:103:PHE:CE2	44:JA:148:GLY:HA2	2.34	0.62
45:JB:379:LYS:NZ	45:JB:419:VAL:HG13	2.13	0.62
44:JE:260:VAL:O	44:JE:260:VAL:HG23	2.00	0.62
44:JG:50:ASN:OD1	44:JG:51:THR:N	2.33	0.62
44:JG:270:SER:C	44:JG:301:MET:HE3	2.19	0.62
45:JH:173:PRO:HD2	45:JH:380:ARG:CZ	2.30	0.62
45:JH:284:LEU:CD1	45:JH:362:LYS:HE3	2.30	0.62
44:JI:210:TYR:CE1	44:JI:227:LEU:HD11	2.33	0.62
45:JJ:391:ARG:O	45:JJ:392:LYS:HG2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:296:PHE:CE2	44:JK:335:ILE:HG21	2.35	0.62
45:JN:19:LYS:HE3	45:JN:227:HIS:ND1	2.12	0.62
44:KC:121:ARG:HA	44:KC:121:ARG:HE	1.63	0.62
44:KG:354:GLY:O	44:KG:355:ILE:HD13	2.00	0.62
45:KJ:187:LEU:HD21	45:KJ:408:PHE:CE1	2.35	0.62
44:KK:67:PHE:HB2	44:KK:92:LEU:HG	1.82	0.62
44:KM:158:SER:O	44:KM:162:GLY:HA2	1.99	0.62
45:KN:28:HIS:CE1	45:KN:47:ILE:HA	2.35	0.62
45:KN:151:LEU:O	45:KN:155:VAL:HG13	2.00	0.62
44:LG:268:MET:HB2	44:LG:379:SER:O	1.99	0.62
44:LK:272:TYR:HD2	44:LK:275:ILE:HD11	1.65	0.62
45:LL:7:ILE:HD13	45:LL:64:ILE:CG1	2.30	0.62
45:LL:148:GLY:O	45:LL:152:ILE:HG12	2.00	0.62
44:LM:319:TYR:O	44:LM:356:ASN:N	2.32	0.62
44:MA:156:ARG:HG3	44:MA:160:ASP:OD2	1.99	0.62
45:MB:248:SER:OG	45:MB:252:LYS:HD2	2.00	0.62
44:MC:88:HIS:HB3	44:MC:91:GLN:HG3	1.82	0.62
45:MD:207:LEU:HB3	45:MD:225:LEU:HD21	1.80	0.62
45:MD:328:GLU:HG3	45:MD:329:GLN:OE1	2.00	0.62
44:MG:264:ARG:NH2	44:MG:428:LEU:HB2	2.15	0.62
44:MG:408:TYR:HB3	44:MG:413:MET:HE2	1.80	0.62
44:MI:276:ILE:CG1	44:MI:281:ALA:HA	2.29	0.62
44:MI:325:PRO:O	44:MI:328:VAL:HG12	2.00	0.62
45:ML:169:VAL:HA	45:ML:202:ILE:O	2.00	0.62
45:NB:113:ILE:HD11	45:NB:151:LEU:HB2	1.82	0.62
45:NB:374:ILE:HA	45:NB:377:MET:CE	2.29	0.62
44:NE:11:GLN:HB3	46:NE:501:GTP:PA	2.40	0.62
44:NG:31:GLN:CG	44:NG:32:PRO:HD2	2.30	0.62
45:NH:117:LEU:HD21	45:NH:154:LYS:CD	2.30	0.62
44:NM:201:ALA:O	44:NM:268:MET:N	2.26	0.62
44:NM:226:ASN:O	44:NM:230:LEU:HD23	2.00	0.62
44:NM:291:ILE:HD13	44:NM:373:ARG:CD	2.24	0.62
44:NM:315:CYS:HB2	44:NM:351:PHE:HA	1.81	0.62
45:NN:40:SER:OG	45:NN:43:GLN:HB2	2.00	0.62
44:OE:5:ILE:HD12	44:OE:135:PHE:HE1	1.63	0.62
44:OE:388:PHE:HB3	44:OE:429:GLU:OE2	1.99	0.62
44:OG:67:PHE:HB2	44:OG:92:LEU:CD2	2.30	0.62
44:OG:182:VAL:HG21	44:OG:408:TYR:OH	1.99	0.62
44:OG:265:ILE:HG22	44:OG:380:ASN:HD21	1.64	0.62
45:OJ:73:MET:CE	45:OJ:92:PHE:HB3	2.29	0.62
44:OK:174:SER:OG	44:OK:206:ASN:OD1	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:229:ARG:NH1	44:OK:363:VAL:HG11	2.13	0.62
44:OM:12:GLY:HA2	46:OM:501:GTP:C8	2.34	0.62
44:PA:141:VAL:CG2	44:PA:187:SER:HA	2.30	0.62
44:PA:287:SER:O	44:PA:291:ILE:HG12	2.00	0.62
45:PB:315:ALA:O	45:PB:351:SER:HA	2.00	0.62
45:PB:374:ILE:HD11	45:PB:422:TYR:CZ	2.35	0.62
45:PD:86:ARG:HG3	45:QB:281:TYR:CD2	2.34	0.62
44:PE:105:ARG:HG2	44:PE:411:GLU:OE1	1.99	0.62
45:PF:7:ILE:CG1	45:PF:64:ILE:HD13	2.30	0.62
45:PF:139:LEU:HD23	45:PF:188:SER:OG	2.00	0.62
45:PH:295:ASP:OD2	45:PH:297:LYS:HE2	1.99	0.62
45:PJ:3:GLU:OE2	45:PJ:127:CYS:HB2	2.00	0.62
45:PJ:105:HIS:HB2	45:PJ:146:GLY:HA3	1.82	0.62
44:PK:268:MET:HB2	44:PK:379:SER:O	1.99	0.62
45:PL:72:THR:O	45:PL:75:SER:OG	2.09	0.62
45:PN:86:ARG:NH2	45:QL:278:SER:HA	2.15	0.62
44:QA:183:GLU:N	44:QA:184:PRO:HD2	2.14	0.62
45:QB:12:CYS:HB2	48:QB:501:GDP:O4'	1.99	0.62
44:QC:186:ASN:OD1	44:QC:187:SER:N	2.33	0.62
44:QC:319:TYR:HD2	44:QC:323:VAL:HG11	1.64	0.62
45:QD:207:LEU:HG	45:QD:300:MET:CE	2.29	0.62
45:QD:321:MET:SD	44:QE:221:ARG:NH2	2.73	0.62
45:QF:184:ASN:OD1	45:QF:185:ALA:N	2.33	0.62
44:QG:325:PRO:HG2	45:QH:222:TYR:CE2	2.34	0.62
45:QJ:66:MET:HE1	45:QJ:116:VAL:HG23	1.80	0.62
45:QJ:72:THR:OG1	45:QJ:73:MET:N	2.33	0.62
45:QL:4:ILE:HG22	45:QL:132:GLY:N	2.14	0.62
45:QL:119:VAL:HG23	45:QL:122:LYS:CE	2.29	0.62
45:QL:309:ARG:CZ	45:QL:342:VAL:HA	2.30	0.62
45:QL:395:LEU:HG	45:QL:399:THR:HG23	1.80	0.62
44:RC:1:MET:HE1	45:RD:94:GLN:HG2	1.80	0.62
44:RC:55:GLU:CD	44:RC:57:GLY:H	2.02	0.62
44:RC:183:GLU:HG2	44:RC:184:PRO:HD3	1.82	0.62
45:RD:113:ILE:CD1	45:RD:154:LYS:HE2	2.30	0.62
44:RE:47:ASP:HA	44:RE:49:PHE:CE1	2.34	0.62
44:RI:22:GLU:HG3	44:RI:83:TYR:CE2	2.35	0.62
45:RJ:54:ALA:HB1	45:SJ:282:ARG:O	2.00	0.62
45:RJ:416:ASN:O	45:RJ:419:VAL:HG12	1.98	0.62
45:RL:86:ARG:NE	45:RL:88:ASP:H	1.97	0.62
44:RM:79:ARG:NH2	44:RM:92:LEU:O	2.33	0.62
44:RM:263:PRO:HD3	45:RN:396:HIS:CD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:291:ILE:HG13	44:RM:292:THR:N	2.15	0.62
45:SB:86:ARG:NH2	45:TB:281:TYR:HB3	2.14	0.62
44:SE:166:LYS:C	44:SE:167:LEU:HD12	2.20	0.62
44:SE:172:TYR:HB3	44:SE:173:PRO:HD2	1.81	0.62
44:SE:372:MET:SD	44:SE:373:ARG:HD2	2.40	0.62
45:SF:67:ASP:OD2	45:SF:72:THR:OG1	2.16	0.62
45:SF:116:VAL:O	45:SF:119:VAL:HG12	2.00	0.62
44:SI:268:MET:HB2	44:SI:379:SER:O	2.00	0.62
45:SL:186:THR:HA	45:SL:189:VAL:HG22	1.80	0.62
45:SL:314:SER:CB	45:SL:350:LYS:HB3	2.29	0.62
44:SM:295:ALA:HB1	44:SM:377:MET:CE	2.29	0.62
45:SN:211:CYS:SG	45:SN:215:LEU:HD12	2.40	0.62
45:TB:282:ARG:HG3	45:TB:283:ALA:N	2.15	0.62
44:TC:238:LEU:CD1	44:TC:239:THR:HG23	2.29	0.62
44:TG:115:VAL:HG22	44:TG:119:LEU:HD23	1.81	0.62
45:TH:304:ASP:OD1	45:TH:306:ARG:HD3	2.00	0.62
45:TH:399:THR:HA	45:TH:403:MET:O	1.99	0.62
45:TJ:325:GLU:HA	45:TJ:328:GLU:HG2	1.82	0.62
44:TK:226:ASN:HD22	44:TK:229:ARG:NH2	1.97	0.62
44:TK:241:SER:HB2	44:TK:249:ASN:CB	2.29	0.62
45:TL:184:ASN:OD1	45:TL:185:ALA:N	2.33	0.62
44:TM:161:TYR:HB3	44:TM:164:LYS:CG	2.29	0.62
44:TM:183:GLU:N	44:TM:184:PRO:HD2	2.15	0.62
45:TN:146:GLY:O	45:TN:149:THR:HG22	2.00	0.62
45:UB:357:PRO:CB	45:UB:362:LYS:HA	2.30	0.62
45:UD:110:ALA:HA	45:UD:113:ILE:CG2	2.30	0.62
44:UE:102:ASN:OD1	44:UE:105:ARG:N	2.25	0.62
44:UE:215:ARG:NH1	44:UE:299:ALA:HB1	2.15	0.62
45:UF:97:ALA:CB	45:UF:143:THR:HB	2.26	0.62
45:UF:306:ARG:HG3	45:UF:307:HIS:HD2	1.64	0.62
44:UG:285:GLN:NE2	44:UG:287:SER:HB2	2.14	0.62
44:UG:298:PRO:O	44:UG:301:MET:HG3	2.00	0.62
44:UM:26:LEU:CD2	44:UM:363:VAL:HA	2.29	0.62
44:UM:275:ILE:HG23	44:UM:368:LEU:CD1	2.28	0.62
45:VB:112:LEU:HD23	45:VB:112:LEU:O	2.00	0.62
45:VB:268:ILE:HG13	45:VB:300:MET:HE1	1.82	0.62
44:VC:51:THR:OG1	44:VC:243:ARG:HB3	1.99	0.62
44:VC:319:TYR:CE1	44:VC:375:VAL:HG21	2.35	0.62
45:VF:139:LEU:HD23	45:VF:188:SER:OG	1.99	0.62
45:VF:355:ASP:O	45:VF:356:ILE:HD13	2.00	0.62
45:VF:384:GLN:O	45:VF:388:MET:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:34:GLY:O	44:VG:60:LYS:HA	1.98	0.62
44:VI:107:HIS:ND1	44:VI:107:HIS:O	2.33	0.62
44:VK:288:VAL:HA	44:VK:291:ILE:HG12	1.81	0.62
44:VM:433:GLU:O	44:VM:437:ILE:HG23	2.00	0.62
45:VN:73:MET:HE2	45:VN:92:PHE:HB3	1.80	0.62
44:WA:350:GLY:HA2	45:WD:179:VAL:HG12	1.82	0.62
45:WB:207:LEU:HD13	45:WB:225:LEU:HB3	1.81	0.62
45:WB:312:THR:CB	45:WB:348:ASN:HB2	2.30	0.62
45:WH:256:ASN:CB	45:WH:350:LYS:HD2	2.30	0.62
44:WI:224:TYR:CD1	44:WI:227:LEU:HD12	2.29	0.62
44:WM:69:ASP:CB	44:WM:75:ILE:HD11	2.14	0.62
1:6H:183:TYR:OH	44:FA:364:PRO:O	2.17	0.61
5:0D:167:ILE:CB	44:EC:80:THR:HB	2.30	0.61
24:1O:271:ALA:CB	44:UA:278:ALA:HB1	2.30	0.61
15:1V:34:THR:N	44:MI:304:LYS:HZ1	1.98	0.61
10:2N:258:THR:HG21	45:LB:276:ARG:NH1	2.15	0.61
15:2V:51:LEU:HD13	44:LE:117:LEU:CD1	2.29	0.61
32:3I:210:PRO:HD2	44:FK:117:LEU:HD11	1.80	0.61
15:3V:94:GLY:HA2	45:LB:262:ARG:HE	1.64	0.61
37:5D:53:PRO:HA	44:KK:437:ILE:C	2.19	0.61
38:5G:33:TYR:HB3	44:NG:85:GLN:NE2	2.15	0.61
38:5H:44:ARG:O	44:OK:373:ARG:NH2	2.33	0.61
39:5I:95:LEU:HG	39:5I:98:LEU:CD1	2.29	0.61
39:5I:112:PRO:HB3	45:ND:309:ARG:NH2	2.15	0.61
39:5I:143:LYS:HE3	44:NC:390:ARG:HB3	1.82	0.61
35:5R:207:ASP:OD1	35:5R:210:GLU:N	2.27	0.61
36:5S:128:LEU:HB2	36:5S:167:LYS:HZ2	1.63	0.61
36:5S:202:ASP:OD1	36:5S:203:HIS:N	2.33	0.61
35:6R:538:PHE:CZ	35:6R:578:TYR:CG	2.88	0.61
35:7R:336:CYS:HB3	35:7R:349:ILE:HG22	1.81	0.61
35:7R:427:GLU:OE1	35:7R:507:ARG:HG2	1.99	0.61
42:8L:371:UNK:O	42:8L:375:UNK:N	2.33	0.61
44:AA:155:GLU:HG2	44:AA:197:HIS:CE1	2.35	0.61
45:AD:67:ASP:OD1	45:AD:68:LEU:N	2.32	0.61
45:AD:68:LEU:HD23	45:AD:97:ALA:N	2.15	0.61
45:AD:243:PRO:HD2	45:AD:356:ILE:CD1	2.29	0.61
45:AD:321:MET:HB3	45:AD:363:MET:HE3	1.82	0.61
44:AE:229:ARG:HB2	44:AE:229:ARG:NH1	2.15	0.61
44:AG:7:ILE:HD13	44:AG:66:VAL:HG12	1.82	0.61
44:AG:99:ALA:HB3	44:AG:145:THR:HB	1.82	0.61
45:AL:143:THR:O	45:AL:147:MET:HE2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:283:HIS:NE2	44:MM:60:LYS:HD2	2.15	0.61
45:AN:425:TYR:HA	45:AN:428:ALA:HB2	1.81	0.61
44:BA:269:LEU:HD23	44:BA:269:LEU:H	1.64	0.61
44:BE:248:LEU:HD23	44:BE:355:ILE:HD12	1.82	0.61
45:BF:34:GLY:O	45:BF:58:ARG:HA	2.00	0.61
45:BH:68:LEU:HD12	45:BH:97:ALA:HB2	1.82	0.61
45:BH:100:ASN:HB3	45:BH:103:LYS:HB2	1.80	0.61
44:BI:242:LEU:HD11	44:BI:252:ILE:CD1	2.30	0.61
45:BL:73:MET:O	45:BL:76:VAL:HG12	2.00	0.61
45:BL:143:THR:HG22	48:BL:502:GDP:O2B	2.00	0.61
44:BM:177:VAL:HG21	45:BN:327:ASP:HB3	1.80	0.61
44:BM:270:SER:HB2	44:BM:378:ILE:CD1	2.30	0.61
45:BN:318:ARG:HD3	45:BN:358:PRO:CD	2.25	0.61
44:CA:270:SER:CB	44:CA:378:ILE:HD13	2.30	0.61
45:CB:190:HIS:CD2	45:CB:414:ASN:HD22	2.18	0.61
44:CC:23:LEU:CD2	44:CC:236:SER:HB2	2.29	0.61
44:CC:362:VAL:HG21	44:CC:368:LEU:O	1.99	0.61
44:CC:409:VAL:HA	44:CC:413:MET:O	1.99	0.61
45:CH:22:GLU:HG2	45:CH:81:PHE:CG	2.35	0.61
45:CH:112:LEU:HD23	45:CH:112:LEU:O	1.99	0.61
45:CH:166:THR:OG1	45:CH:199:CYS:HA	2.00	0.61
44:CM:265:ILE:HG21	44:CM:380:ASN:HD21	1.63	0.61
44:CM:326:LYS:CE	45:CN:219:THR:HG22	2.30	0.61
44:CM:408:TYR:HD1	44:CM:413:MET:HE1	1.65	0.61
44:DA:254:GLU:CG	45:DB:98:GLY:HA2	2.27	0.61
45:DD:248:SER:CA	45:DD:252:LYS:HD2	2.17	0.61
44:DG:171:ILE:HD13	44:DG:204:LEU:HB2	1.82	0.61
44:DG:238:LEU:O	44:DG:238:LEU:HD23	2.00	0.61
44:DG:348:PRO:CB	45:DH:384:GLN:HE22	2.12	0.61
45:DL:116:VAL:O	45:DL:120:VAL:HG23	2.00	0.61
45:DL:256:ASN:HB2	45:DL:350:LYS:HD2	1.82	0.61
44:DM:215:ARG:CZ	44:DM:299:ALA:HB1	2.30	0.61
45:DN:61:PRO:HD3	45:DN:84:LEU:HB3	1.81	0.61
44:EC:115:VAL:HG11	44:EC:149:LEU:CD1	2.30	0.61
45:ED:49:VAL:HG21	45:ED:241:ARG:HD3	1.82	0.61
45:ED:378:PHE:HA	45:ED:381:VAL:HG12	1.81	0.61
45:EF:346:PRO:HB2	44:EG:394:LYS:HZ3	1.64	0.61
44:EG:203:MET:HA	44:EG:203:MET:CE	2.29	0.61
44:EG:340:THR:HG23	44:EG:341:ILE:HG12	1.82	0.61
44:EI:326:LYS:HG3	45:EJ:220:PRO:HD2	1.81	0.61
44:EK:206:ASN:OD1	44:EK:207:GLU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:269:LEU:HD23	44:EK:269:LEU:H	1.65	0.61
44:EK:318:MET:SD	44:EK:354:GLY:HA3	2.40	0.61
44:EK:386:GLU:HB3	44:EK:390:ARG:HH12	1.65	0.61
45:FB:284:LEU:O	45:FB:362:LYS:NZ	2.33	0.61
44:FE:205:ASP:OD2	44:FE:304:LYS:HB3	1.99	0.61
44:FE:221:ARG:NH1	45:FF:325:GLU:HB2	2.14	0.61
45:FH:86:ARG:HH21	45:FH:87:PRO:CG	2.13	0.61
45:FH:235:GLY:HA2	45:FH:318:ARG:NH2	2.15	0.61
44:FI:28:HIS:HD1	44:FI:49:PHE:HA	1.63	0.61
44:FK:272:TYR:CD1	44:FK:376:CYS:HB2	2.35	0.61
45:FL:249:ASP:OD1	45:FL:252:LYS:HB2	1.99	0.61
44:FM:219:ILE:HG22	44:FM:222:PRO:HD3	1.81	0.61
44:GA:235:ILE:O	44:GA:239:THR:N	2.32	0.61
45:GB:148:GLY:O	45:GB:152:ILE:HG12	2.00	0.61
45:GD:133:PHE:O	45:GD:165:GLU:N	2.32	0.61
45:GF:133:PHE:CD2	45:GF:155:VAL:HG21	2.35	0.61
45:GF:213:ARG:HH21	45:GF:297:LYS:HE2	1.65	0.61
44:GG:320:ARG:HD2	44:GG:360:PRO:HG3	1.81	0.61
45:GJ:330:MET:SD	45:GJ:349:ILE:HG21	2.40	0.61
44:GK:98:ASP:OD1	44:GK:99:ALA:N	2.33	0.61
44:GM:383:ALA:O	44:GM:386:GLU:HG2	2.00	0.61
44:HA:91:GLN:O	44:HA:93:ILE:HD12	2.00	0.61
44:HC:230:LEU:CD1	44:HC:275:ILE:HD13	2.29	0.61
44:HC:372:MET:SD	44:HC:373:ARG:HG3	2.40	0.61
44:HK:88:HIS:HB3	44:HK:91:GLN:CG	2.30	0.61
45:HL:152:ILE:HA	45:HL:155:VAL:HG22	1.82	0.61
45:HL:182:PRO:O	45:HL:186:THR:HG23	1.99	0.61
45:HL:190:HIS:O	45:HL:193:VAL:HG12	1.99	0.61
44:HM:272:TYR:CD1	44:HM:376:CYS:HB2	2.34	0.61
44:HM:314:ALA:HB3	44:HM:380:ASN:HB2	1.81	0.61
44:IA:54:SER:HB3	44:IA:64:ARG:HH21	1.65	0.61
45:IB:226:ASN:HA	45:IB:229:VAL:HB	1.82	0.61
44:IE:244:PHE:HE2	44:IE:358:GLN:HG2	1.64	0.61
45:IF:101:TRP:CE3	45:IF:187:LEU:HD13	2.35	0.61
45:IH:86:ARG:HH21	45:IH:87:PRO:HG2	1.65	0.61
44:II:13:GLY:O	44:II:16:VAL:HG12	1.99	0.61
44:II:237:SER:CA	44:II:320:ARG:HH12	2.13	0.61
44:IM:221:ARG:CZ	45:IN:322:SER:HB3	2.30	0.61
44:JC:258:ASN:ND2	44:JC:352:LYS:HG3	2.15	0.61
45:JD:7:ILE:HB	45:JD:135:ILE:CD1	2.26	0.61
45:JD:375:GLN:O	45:JD:379:LYS:HE3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:107:HIS:NE2	44:JE:152:LEU:HD13	2.15	0.61
44:JE:407:TRP:CD2	45:JF:255:VAL:HG22	2.35	0.61
44:JG:1:MET:CE	45:JJ:94:GLN:HG2	2.30	0.61
44:JG:270:SER:O	44:JG:301:MET:HE3	2.00	0.61
45:JJ:91:VAL:HG11	45:JJ:116:VAL:HG22	1.82	0.61
45:JJ:158:GLU:HG2	45:JJ:159:TYR:CD1	2.35	0.61
44:JK:105:ARG:HG2	44:JK:105:ARG:HH11	1.65	0.61
44:JM:288:VAL:HB	44:JM:373:ARG:HD2	1.81	0.61
44:JM:421:ALA:O	44:JM:425:LEU:HD23	1.99	0.61
44:KA:288:VAL:HG11	44:KA:327:ASP:CB	2.28	0.61
44:KC:123:ARG:HG2	44:KC:123:ARG:HH11	1.64	0.61
44:KC:261:PRO:HA	45:KF:394:PHE:CD1	2.35	0.61
44:KG:22:GLU:HG3	44:KG:83:TYR:OH	1.99	0.61
44:KG:238:LEU:HD12	44:KG:378:ILE:CD1	2.30	0.61
45:KH:285:THR:HG23	45:KH:287:PRO:HD2	1.82	0.61
44:KI:101:ASN:OD1	45:KJ:252:LYS:HG3	1.99	0.61
44:KK:188:ILE:HD12	44:KK:425:LEU:HG	1.81	0.61
45:KL:2:ARG:HB2	45:KL:131:GLN:HB2	1.81	0.61
45:KL:238:CYS:HB2	45:KL:318:ARG:CD	2.29	0.61
44:KM:68:LEU:HD21	44:KM:118:CYS:SG	2.40	0.61
45:LB:139:LEU:HD11	45:LB:168:SER:HB3	1.82	0.61
44:LC:49:PHE:O	44:LC:53:PHE:N	2.31	0.61
44:LG:209:ILE:CA	44:LG:212:ILE:HG22	2.30	0.61
45:LH:67:ASP:OD1	45:LH:68:LEU:N	2.32	0.61
45:LJ:73:MET:CE	45:LJ:92:PHE:HB3	2.29	0.61
45:LJ:396:HIS:HA	45:LJ:399:THR:HG22	1.80	0.61
45:LN:172:SER:OG	45:LN:174:LYS:NZ	2.29	0.61
44:MA:404:PHE:CE1	45:MB:259:PRO:HA	2.35	0.61
45:MB:187:LEU:HD11	45:MB:408:PHE:CE1	2.35	0.61
45:MD:52:ASN:OD1	45:MD:62:ARG:NH1	2.33	0.61
45:MD:207:LEU:HB3	45:MD:225:LEU:HD22	1.82	0.61
44:MI:3:GLU:OE2	44:MI:129:CYS:HB3	1.99	0.61
44:MK:332:ILE:HG23	44:MK:351:PHE:CE2	2.33	0.61
44:MK:363:VAL:HG23	44:MK:364:PRO:HD2	1.81	0.61
45:ML:32:PRO:HB3	45:ML:81:PHE:CD1	2.35	0.61
45:ND:271:ALA:HA	45:ND:273:LEU:HD23	1.82	0.61
45:NF:131:GLN:NE2	45:NF:251:ARG:HG3	2.15	0.61
44:NG:209:ILE:HG12	44:NG:302:MET:CE	2.30	0.61
45:NJ:68:LEU:HD13	45:NJ:147:MET:HE1	1.82	0.61
44:NK:105:ARG:HB2	44:NK:411:GLU:OE1	2.00	0.61
44:NK:287:SER:HA	44:NK:373:ARG:HH12	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:406:MET:O	45:NL:409:THR:HG22	2.00	0.61
44:NM:274:PRO:HG2	44:NM:371:VAL:CG2	2.30	0.61
44:OA:242:LEU:HD21	44:OA:252:ILE:CG2	2.30	0.61
44:OA:346:TRP:HE1	45:OD:393:ALA:HB3	1.64	0.61
45:OB:117:LEU:HD11	45:OB:154:LYS:CB	2.29	0.61
45:OD:220:PRO:HA	45:OD:224:ASP:OD2	1.99	0.61
44:OE:326:LYS:HA	44:OE:329:ASN:OD1	2.00	0.61
45:OF:32:PRO:HD3	45:OF:81:PHE:HE1	1.65	0.61
45:OF:221:THR:O	45:OF:224:ASP:N	2.32	0.61
44:OG:107:HIS:O	44:OG:108:TYR:HD1	1.82	0.61
44:OG:141:VAL:CG1	44:OG:172:TYR:HA	2.25	0.61
44:OI:251:ASP:O	44:OI:254:GLU:N	2.31	0.61
44:OI:386:GLU:O	44:OI:390:ARG:HG2	2.00	0.61
45:OJ:317:PHE:HB3	45:OJ:321:MET:CE	2.29	0.61
44:OK:53:PHE:CE2	44:OK:63:PRO:HG3	2.35	0.61
44:OK:305:CYS:O	44:OK:307:PRO:HD3	1.99	0.61
45:OL:410:GLU:HA	45:OL:413:SER:OG	2.00	0.61
44:OM:104:ALA:HB2	44:OM:413:MET:CE	2.29	0.61
44:PA:89:PRO:HB3	44:QA:280:LYS:HZ1	1.65	0.61
45:PD:16:ILE:HD11	48:PD:502:GDP:N2	2.15	0.61
44:PE:404:PHE:HD1	45:PF:259:PRO:HA	1.63	0.61
44:PG:123:ARG:HA	44:PG:161:TYR:OH	2.00	0.61
44:PI:269:LEU:HD23	44:PI:269:LEU:H	1.65	0.61
44:PI:292:THR:HG21	44:PI:331:SER:CB	2.30	0.61
44:PM:414:GLU:H	44:PM:417:GLU:HG3	1.65	0.61
45:PN:310:TYR:O	45:PN:342:VAL:N	2.30	0.61
44:QA:278:ALA:CA	44:QA:369:ALA:HB2	2.30	0.61
44:QE:258:ASN:CG	45:QF:179:VAL:HG22	2.21	0.61
44:QE:265:ILE:HD12	44:QE:435:VAL:HG21	1.80	0.61
45:QF:314:SER:HA	45:QF:350:LYS:HB3	1.81	0.61
44:QI:12:GLY:N	46:QI:501:GTP:O2A	2.33	0.61
44:QI:268:MET:HB2	44:QI:380:ASN:HA	1.81	0.61
45:QJ:215:LEU:O	45:QJ:216:LYS:HG2	2.00	0.61
44:QK:258:ASN:ND2	45:QL:179:VAL:HG22	2.15	0.61
45:QL:87:PRO:HA	45:QL:90:PHE:HD2	1.64	0.61
45:QL:170:VAL:HG23	45:QL:203:ASP:OD1	2.00	0.61
45:QN:8:GLN:HG3	45:QN:14:ASN:OD1	2.00	0.61
45:QN:406:MET:O	45:QN:410:GLU:HG3	2.00	0.61
44:RA:187:SER:O	44:RA:191:THR:HG23	2.00	0.61
45:RB:287:PRO:HB3	45:RB:329:GLN:NE2	2.15	0.61
44:RC:88:HIS:HB3	44:RC:91:GLN:CD	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:9:VAL:HG23	44:RE:68:LEU:CB	2.29	0.61
44:RG:48:ALA:HB1	44:RG:243:ARG:O	1.99	0.61
44:RM:252:ILE:HA	44:RM:255:PHE:CE2	2.35	0.61
45:RN:12:CYS:HB2	48:RN:501:GDP:C8	2.35	0.61
45:RN:115:SER:HA	45:RN:118:ASP:HB2	1.81	0.61
45:SB:237:THR:HG22	45:SB:250:LEU:HD21	1.82	0.61
44:SG:244:PHE:CE2	44:SG:358:GLN:HG2	2.34	0.61
44:SG:338:LYS:O	44:SG:339:ARG:NE	2.33	0.61
45:SL:85:PHE:HB3	45:SL:90:PHE:CZ	2.35	0.61
45:SL:135:ILE:HB	45:SL:166:THR:HG22	1.82	0.61
44:SM:233:GLN:HA	44:SM:236:SER:HB3	1.81	0.61
44:SM:272:TYR:HD1	44:SM:376:CYS:HB2	1.64	0.61
45:SN:310:TYR:CD1	45:SN:371:SER:HB2	2.34	0.61
44:TA:271:SER:HB2	44:TA:377:MET:CE	2.30	0.61
45:TD:117:LEU:HA	45:TD:120:VAL:CG2	2.30	0.61
44:TE:161:TYR:HB3	44:TE:164:LYS:CE	2.28	0.61
44:TE:161:TYR:HD2	44:TE:164:LYS:HE3	1.64	0.61
45:TF:22:GLU:HA	45:TF:22:GLU:OE2	2.00	0.61
45:TF:151:LEU:O	45:TF:155:VAL:N	2.28	0.61
45:TF:357:PRO:HB2	45:TF:361:LEU:O	2.00	0.61
45:TH:246:LEU:HA	44:TI:11:GLN:OE1	2.00	0.61
44:TI:213:CYS:O	44:TI:217:LEU:HB2	2.00	0.61
45:TJ:3:GLU:HG3	45:TJ:127:CYS:HB2	1.82	0.61
45:TJ:14:ASN:HD22	45:TJ:72:THR:HG21	1.64	0.61
44:TK:134:GLY:HA3	44:TK:165:SER:OG	1.99	0.61
44:TK:326:LYS:HZ1	45:TL:221:THR:HA	1.65	0.61
45:TL:14:ASN:ND2	45:TL:72:THR:OG1	2.33	0.61
45:TN:61:PRO:HD3	45:TN:84:LEU:HB3	1.82	0.61
45:TN:65:LEU:HD22	45:TN:90:PHE:CE1	2.35	0.61
44:UA:8:HIS:NE2	44:UA:17:GLY:HA3	2.14	0.61
44:UC:278:ALA:HA	44:UC:281:ALA:CB	2.30	0.61
45:UJ:30:ILE:HD12	45:UJ:59:TYR:HD2	1.64	0.61
45:UJ:285:THR:OG1	45:UJ:287:PRO:HD2	2.00	0.61
44:UK:104:ALA:HB3	44:UK:411:GLU:HB2	1.82	0.61
45:UN:184:ASN:OD1	45:UN:185:ALA:N	2.33	0.61
45:VB:87:PRO:HA	45:VB:90:PHE:HD2	1.65	0.61
45:VB:173:PRO:HD3	45:VB:380:ARG:CZ	2.30	0.61
45:VB:262:ARG:C	45:VB:263:LEU:HD12	2.21	0.61
44:VC:12:GLY:HA2	44:VC:15:GLN:HB2	1.80	0.61
45:VD:309:ARG:N	45:VD:372:THR:OG1	2.32	0.61
44:VE:100:ALA:O	45:VF:255:VAL:HG11	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:202:VAL:HG13	44:VE:204:LEU:CD1	2.30	0.61
44:VE:319:TYR:CE2	44:VE:323:VAL:HG21	2.34	0.61
44:VG:203:MET:HB3	44:VG:303:ALA:HB2	1.82	0.61
45:VH:19:LYS:O	45:VH:22:GLU:HB2	2.00	0.61
44:VI:99:ALA:O	44:VI:105:ARG:HD3	2.00	0.61
44:VM:316:SER:O	44:VM:378:ILE:N	2.26	0.61
44:WC:137:VAL:HG12	44:WC:167:LEU:O	2.00	0.61
45:WD:65:LEU:HD21	45:WD:85:PHE:HE2	1.65	0.61
44:WE:217:LEU:CB	44:WE:219:ILE:HG13	2.30	0.61
45:WF:114:ASP:OD1	45:WF:115:SER:N	2.33	0.61
44:WG:166:LYS:O	44:WG:199:ASP:HB2	1.99	0.61
44:WG:237:SER:HB3	44:WG:376:CYS:SG	2.39	0.61
45:WH:238:CYS:HB2	45:WH:318:ARG:CZ	2.30	0.61
44:WI:73:THR:HA	45:WJ:46:ARG:NH2	2.15	0.61
44:WI:141:VAL:HG11	44:WI:172:TYR:HD1	1.65	0.61
44:WI:155:GLU:HA	44:WI:197:HIS:CE1	2.35	0.61
44:WI:247:ALA:HB2	44:WI:357:TYR:OH	1.99	0.61
45:WL:271:ALA:HB1	45:WL:272:PRO:HA	1.81	0.61
44:WM:26:LEU:CD2	44:WM:363:VAL:HA	2.29	0.61
44:WM:91:GLN:O	44:WM:93:ILE:HD12	2.00	0.61
44:WM:315:CYS:HA	44:WM:378:ILE:O	2.00	0.61
16:0X:49:ILE:CG1	44:MA:282:TYR:HB2	2.30	0.61
18:1F:123:TYR:O	44:GI:82:THR:HG21	1.99	0.61
22:1L:163:ARG:NH2	44:BI:79:ARG:HG3	2.14	0.61
11:1Q:17:ILE:HG22	45:WD:125:GLU:OE2	2.00	0.61
15:1V:146:PRO:HD2	44:LK:414:GLU:CD	2.08	0.61
11:2Q:104:ARG:CZ	44:AE:423:GLU:HG2	2.31	0.61
27:2W:240:PHE:CE1	35:6R:10:PRO:CD	2.77	0.61
26:3R:299:LEU:CA	45:CL:78:ALA:HB1	2.30	0.61
14:3U:226:ILE:HG23	44:WK:43:GLY:HA2	1.82	0.61
38:5E:54:LYS:HA	45:OB:227:HIS:CE1	2.35	0.61
35:5R:549:MET:HG2	35:5R:606:PHE:HE1	1.61	0.61
35:5R:552:LEU:HG	35:5R:556:ILE:HD11	1.82	0.61
35:6R:462:ASN:HA	45:FN:218:THR:OG1	1.99	0.61
35:6R:536:ARG:NH1	35:6R:608:ALA:O	2.33	0.61
35:7R:353:ASP:O	35:7R:356:THR:OG1	2.18	0.61
43:8P:119:UNK:HA	44:PI:58:ALA:HB2	1.82	0.61
45:AB:21:TRP:CZ3	45:AB:61:PRO:HB3	2.35	0.61
45:AB:21:TRP:HZ2	45:AB:63:ALA:HB2	1.64	0.61
45:AB:358:PRO:HG3	45:AB:364:ALA:CB	2.30	0.61
45:AD:54:ALA:HB2	45:BD:283:ALA:HB2	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:188:ILE:HD11	44:AG:422:ARG:HA	1.82	0.61
44:AG:332:ILE:HD12	44:AG:351:PHE:CD1	2.35	0.61
44:AI:204:LEU:HD13	44:AI:231:ILE:CD1	2.30	0.61
44:AI:387:VAL:HA	44:AI:390:ARG:NH1	2.15	0.61
45:AJ:8:GLN:OE1	45:AJ:17:GLY:HA3	1.99	0.61
44:AK:328:VAL:O	44:AK:332:ILE:HG12	2.00	0.61
44:AM:155:GLU:HG3	44:AM:197:HIS:NE2	2.15	0.61
44:AM:188:ILE:HG23	44:AM:425:LEU:CD2	2.31	0.61
44:BA:202:VAL:HG12	44:BA:204:LEU:HG	1.81	0.61
44:BC:434:GLU:O	44:BC:437:ILE:HG12	2.00	0.61
45:BF:204:ASN:OD1	48:BF:502:GDP:O2'	2.18	0.61
44:BI:10:GLY:O	44:BI:14:ILE:HG13	2.00	0.61
44:BI:212:ILE:HD11	44:BI:300:ASN:HA	1.80	0.61
45:BJ:207:LEU:CB	45:BJ:225:LEU:HD22	2.29	0.61
45:BJ:304:ASP:HB3	45:BJ:307:HIS:HD2	1.65	0.61
45:BJ:420:SER:O	45:BJ:423:GLN:HG3	2.01	0.61
44:BK:188:ILE:HG23	44:BK:425:LEU:HD11	1.81	0.61
45:BL:377:MET:O	45:BL:380:ARG:HG2	1.99	0.61
44:BM:98:ASP:HB3	45:BN:249:ASP:OD2	2.00	0.61
44:BM:208:ALA:HB3	44:BM:302:MET:O	2.00	0.61
45:BN:164:MET:H	45:BN:197:ASP:HB2	1.65	0.61
45:CB:282:ARG:NH2	45:CB:292:GLN:OE1	2.20	0.61
44:CC:202:VAL:HA	44:CC:268:MET:O	1.99	0.61
45:CH:7:ILE:HB	45:CH:135:ILE:CD1	2.30	0.61
45:CH:101:TRP:HB3	45:CH:398:TYR:HE1	1.64	0.61
44:CI:254:GLU:HG2	45:CJ:98:GLY:HA2	1.82	0.61
44:CK:182:VAL:O	44:CK:182:VAL:HG12	2.00	0.61
44:CK:311:LYS:H	44:CK:382:THR:CG2	2.13	0.61
44:DA:67:PHE:O	44:DA:93:ILE:HD13	2.01	0.61
44:DA:192:HIS:NE2	44:DA:420:GLU:HG3	2.15	0.61
45:DB:325:GLU:HA	45:DB:328:GLU:CG	2.28	0.61
44:DC:89:PRO:HG3	44:EC:280:LYS:CB	2.30	0.61
44:DC:145:THR:HG23	44:DC:146:GLY:H	1.64	0.61
45:DD:268:ILE:HG13	45:DD:300:MET:CE	2.30	0.61
45:DD:268:ILE:O	45:DD:300:MET:HE2	2.00	0.61
44:DE:34:GLY:O	44:DE:60:LYS:HA	2.00	0.61
44:DE:248:LEU:CD1	48:DF:501:GDP:H5''	2.30	0.61
44:DI:23:LEU:CD2	44:DI:233:GLN:HA	2.30	0.61
45:DJ:1:MET:O	45:DJ:2:ARG:HG3	2.00	0.61
45:DJ:201:VAL:HG23	45:DJ:301:CYS:SG	2.40	0.61
45:DJ:245:GLN:CB	45:DJ:353:ILE:HD11	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:289:LEU:HD13	45:DJ:365:VAL:CG2	2.30	0.61
45:DL:143:THR:O	45:DL:147:MET:HB3	2.00	0.61
45:DN:64:ILE:HG13	45:DN:89:ASN:CG	2.20	0.61
44:EA:171:ILE:HG12	44:EA:204:LEU:CB	2.30	0.61
44:EC:4:VAL:HG11	44:EC:252:ILE:HD11	1.81	0.61
44:EC:174:SER:HB3	44:EC:207:GLU:HB2	1.82	0.61
45:EF:173:PRO:HB3	45:EF:380:ARG:HD2	1.81	0.61
45:EF:428:ALA:HB1	44:EG:401:LYS:HZ2	1.65	0.61
45:EF:428:ALA:HB1	44:EG:401:LYS:NZ	2.14	0.61
45:EH:244:GLY:HA2	45:EH:355:ASP:OD2	2.00	0.61
44:EI:265:ILE:O	44:EI:265:ILE:HG23	2.00	0.61
45:EJ:206:ALA:HB1	45:EJ:300:MET:HA	1.82	0.61
45:EJ:420:SER:O	45:EJ:423:GLN:HG3	2.00	0.61
44:EM:261:PRO:HA	45:EN:394:PHE:CE1	2.35	0.61
44:EM:301:MET:HG3	44:EM:307:PRO:HD3	1.82	0.61
45:EN:101:TRP:O	45:EN:105:HIS:N	2.33	0.61
44:FA:202:VAL:HA	44:FA:268:MET:O	2.00	0.61
44:FC:320:ARG:HG3	44:FC:356:ASN:HB3	1.81	0.61
44:FI:385:ALA:HB2	44:FI:432:TYR:CG	2.34	0.61
44:FK:414:GLU:OE2	44:FK:417:GLU:HG2	1.99	0.61
45:FL:7:ILE:HG22	45:FL:134:GLN:O	2.00	0.61
44:FM:222:PRO:HG2	45:FN:324:LYS:HD3	1.82	0.61
44:FM:229:ARG:HA	44:FM:229:ARG:HH11	1.65	0.61
45:FN:375:GLN:HB2	45:FN:419:VAL:HG13	1.81	0.61
44:GA:16:VAL:HA	44:GA:228:ASN:HB3	1.80	0.61
45:GB:318:ARG:HB3	45:GB:357:PRO:HB3	1.82	0.61
44:GC:331:SER:O	44:GC:335:ILE:HD12	2.00	0.61
45:GD:214:THR:O	45:GD:216:LYS:HG3	2.00	0.61
44:GG:10:GLY:O	44:GG:14:ILE:N	2.28	0.61
44:GI:55:GLU:HG3	44:GI:57:GLY:H	1.65	0.61
45:GL:23:VAL:CG1	45:GL:230:SER:HB3	2.28	0.61
45:GL:86:ARG:HG3	45:HL:281:TYR:CB	2.29	0.61
44:GM:71:GLU:OE1	44:GM:73:THR:N	2.27	0.61
44:GM:417:GLU:O	44:GM:420:GLU:HG2	2.00	0.61
45:GN:193:VAL:CG2	45:GN:418:LEU:HD22	2.29	0.61
45:GN:332:ASN:O	45:GN:336:LYS:HG2	2.00	0.61
44:HG:387:VAL:HA	44:HG:390:ARG:HG2	1.82	0.61
45:HH:242:PHE:CD1	45:HH:356:ILE:HG13	2.35	0.61
44:HI:88:HIS:ND1	44:HI:89:PRO:HD2	2.16	0.61
44:HI:404:PHE:CZ	45:HJ:259:PRO:HA	2.34	0.61
45:HJ:330:MET:HB3	45:HJ:349:ILE:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:254:GLU:CG	45:HN:98:GLY:HA2	2.28	0.61
45:HL:175:VAL:O	45:HL:175:VAL:HG23	2.00	0.61
44:HM:201:ALA:O	44:HM:267:PHE:HA	1.99	0.61
45:ID:420:SER:O	45:ID:423:GLN:HG3	1.99	0.61
44:II:154:LEU:HD12	44:II:194:LEU:CD2	2.29	0.61
44:II:260:VAL:HG23	45:IL:397:TRP:HZ2	1.65	0.61
44:II:271:SER:HB2	44:II:377:MET:SD	2.40	0.61
45:IJ:309:ARG:HG2	45:IJ:340:TYR:O	1.99	0.61
45:IN:204:ASN:HA	45:IN:207:LEU:HD12	1.82	0.61
45:JB:162:ARG:O	45:JB:163:ILE:HD13	2.01	0.61
45:JD:86:ARG:NH2	45:KD:281:TYR:HA	2.16	0.61
44:JE:89:PRO:HG2	44:KE:280:LYS:HD3	1.81	0.61
44:JE:221:ARG:HG3	45:JF:325:GLU:OE2	2.00	0.61
44:JE:247:ALA:HB1	45:JH:222:TYR:CD2	2.35	0.61
45:JH:143:THR:HG22	48:JH:501:GDP:PB	2.40	0.61
45:JH:232:ALA:O	45:JH:236:VAL:HG23	1.99	0.61
45:JH:289:LEU:HD13	45:JH:363:MET:HG3	1.81	0.61
45:JJ:152:ILE:HG12	45:JJ:164:MET:HE3	1.81	0.61
44:JM:276:ILE:CD1	44:JM:280:LYS:HD2	2.26	0.61
45:JN:47:ILE:HG22	45:JN:51:TYR:HB2	1.82	0.61
45:JN:62:ARG:HG3	45:JN:62:ARG:O	2.00	0.61
45:KB:100:ASN:HD22	45:KB:103:LYS:HG3	1.65	0.61
45:KB:133:PHE:HB2	45:KB:164:MET:CE	2.29	0.61
45:KB:238:CYS:HB2	45:KB:318:ARG:NE	2.14	0.61
45:KD:192:LEU:HG	45:KD:196:ALA:CB	2.30	0.61
45:KD:295:ASP:OD2	45:KD:297:LYS:NZ	2.26	0.61
44:KE:287:SER:O	44:KE:291:ILE:HG23	2.00	0.61
44:KG:372:MET:CE	44:KG:372:MET:HA	2.30	0.61
44:KI:96:LYS:HA	45:KJ:1:MET:CE	2.30	0.61
44:KI:394:LYS:HD2	45:KJ:346:PRO:CG	2.30	0.61
44:LA:259:LEU:HD13	44:LA:314:ALA:CB	2.30	0.61
44:LC:407:TRP:NE1	45:LD:255:VAL:HA	2.15	0.61
45:LD:102:ALA:HB1	45:LD:401:GLU:CG	2.30	0.61
44:LK:41:THR:O	44:LK:41:THR:HG22	1.98	0.61
45:LL:113:ILE:HG21	45:LL:150:LEU:HD22	1.80	0.61
45:LL:330:MET:HE2	45:LL:330:MET:HA	1.80	0.61
44:LM:259:LEU:HD21	44:LM:316:SER:HB2	1.81	0.61
45:LN:257:LEU:HD23	45:LN:266:PHE:CE2	2.35	0.61
45:MB:101:TRP:O	45:MB:105:HIS:N	2.32	0.61
45:MB:200:MET:HE3	45:MB:368:VAL:HG13	1.81	0.61
44:MC:296:PHE:CE1	44:MC:335:ILE:HG21	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MD:116:VAL:O	45:MD:119:VAL:HG12	1.99	0.61
45:MD:247:ASN:O	45:MD:252:LYS:NZ	2.26	0.61
44:ME:270:SER:C	44:ME:302:MET:HE3	2.20	0.61
45:MF:68:LEU:CD2	45:MF:147:MET:HE3	2.30	0.61
44:MG:161:TYR:HB3	44:MG:164:LYS:HD2	1.82	0.61
45:MH:203:ASP:OD2	45:MH:377:MET:HE3	1.99	0.61
45:MH:334:GLN:O	45:MH:334:GLN:HG2	2.00	0.61
44:MI:88:HIS:HB3	44:MI:91:GLN:CG	2.29	0.61
44:MI:166:LYS:N	44:MI:199:ASP:OD2	2.33	0.61
44:MI:262:TYR:HB3	44:MI:263:PRO:HD2	1.83	0.61
44:MK:54:SER:HB3	44:MK:64:ARG:CZ	2.31	0.61
45:ML:275:SER:OG	45:ML:278:SER:N	2.32	0.61
45:MN:178:THR:CG2	45:MN:180:VAL:HG12	2.30	0.61
44:NC:171:ILE:CD1	44:NC:204:LEU:HB3	2.31	0.61
45:NF:350:LYS:HG2	45:NF:351:SER:N	2.15	0.61
45:NF:415:MET:O	45:NF:419:VAL:HG23	2.01	0.61
44:NI:7:ILE:HB	44:NI:137:VAL:HG12	1.82	0.61
44:NK:413:MET:CE	44:NK:417:GLU:HG3	2.29	0.61
45:NL:12:CYS:O	45:NL:16:ILE:HG12	1.99	0.61
45:NN:294:PHE:CD2	45:NN:333:VAL:HG21	2.34	0.61
44:OA:247:ALA:HB1	45:OD:222:TYR:HE2	1.65	0.61
44:OA:311:LYS:O	44:OA:381:SER:HA	1.99	0.61
44:OE:105:ARG:O	44:OE:110:ILE:HG12	2.00	0.61
44:OE:230:LEU:O	44:OE:234:VAL:HG23	2.00	0.61
45:OF:47:ILE:O	45:OF:51:TYR:HB2	1.99	0.61
45:OF:116:VAL:O	45:OF:119:VAL:HG12	1.99	0.61
44:OG:54:SER:HB3	44:OG:64:ARG:NH2	2.14	0.61
45:OH:2:ARG:HD2	45:OH:2:ARG:O	2.01	0.61
44:OI:272:TYR:CD2	44:OI:275:ILE:HD11	2.34	0.61
44:OK:171:ILE:HG13	44:OK:204:LEU:HB2	1.82	0.61
44:OK:319:TYR:HB2	44:OK:354:GLY:O	2.00	0.61
45:OL:152:ILE:HD12	45:OL:164:MET:CE	2.30	0.61
45:OL:167:PHE:CE2	45:OL:233:MET:HB2	2.35	0.61
45:OL:192:LEU:O	45:OL:196:ALA:N	2.26	0.61
44:OM:31:GLN:HB3	44:OM:33:ASP:OD1	2.00	0.61
45:PB:255:VAL:HG12	45:PB:255:VAL:O	1.99	0.61
45:PB:317:PHE:O	45:PB:354:CYS:N	2.30	0.61
45:PD:7:ILE:HB	45:PD:135:ILE:HD13	1.82	0.61
45:PD:180:VAL:HG23	45:PD:183:TYR:HD2	1.65	0.61
44:PG:1:MET:HE1	45:PJ:94:GLN:CB	2.30	0.61
45:PH:202:ILE:HG23	45:PH:300:MET:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PJ:130:LEU:HD22	45:PJ:162:ARG:HG3	1.81	0.61
45:PJ:172:SER:OG	45:PJ:175:VAL:HG22	1.99	0.61
45:PJ:268:ILE:HA	45:PJ:367:PHE:O	1.99	0.61
44:PK:136:LEU:HD23	44:PK:167:LEU:CG	2.29	0.61
45:PL:372:THR:HA	45:PL:422:TYR:HE2	1.64	0.61
44:PM:115:VAL:HG11	44:PM:152:LEU:HD21	1.82	0.61
44:QA:324:VAL:HG12	44:QA:326:LYS:HG3	1.81	0.61
45:QB:143:THR:O	45:QB:147:MET:N	2.29	0.61
44:QC:52:PHE:HZ	44:QC:239:THR:HG21	1.65	0.61
44:QC:171:ILE:CG2	46:QC:501:GTP:HN22	2.13	0.61
45:QD:3:GLU:CB	45:QD:49:VAL:HA	2.29	0.61
45:QF:210:ILE:HD11	45:QF:299:MET:O	2.00	0.61
45:QF:222:TYR:HB3	48:QF:501:GDP:O6	1.99	0.61
44:QG:62:VAL:CG2	44:RG:283:HIS:HB3	2.31	0.61
44:QG:135:PHE:CE2	44:QG:157:LEU:HD22	2.34	0.61
45:QH:2:ARG:NH2	44:QI:73:THR:OG1	2.33	0.61
44:QI:229:ARG:HD3	44:QI:363:VAL:HG11	1.81	0.61
44:QI:268:MET:CB	44:QI:380:ASN:HA	2.30	0.61
44:QI:426:ALA:O	44:QI:430:LYS:N	2.25	0.61
45:QJ:103:LYS:HA	45:QJ:107:THR:HG1	1.65	0.61
45:QJ:316:LEU:HG	45:QJ:352:SER:HB2	1.82	0.61
45:QL:257:LEU:HD11	45:QL:314:SER:HB2	1.81	0.61
44:QM:121:ARG:O	44:QM:124:LYS:HG2	2.00	0.61
44:QM:258:ASN:CG	45:QN:179:VAL:HG22	2.20	0.61
44:QM:428:LEU:HG	44:QM:432:TYR:HE2	1.65	0.61
45:RB:257:LEU:O	45:RB:257:LEU:HD23	1.99	0.61
45:RD:261:PRO:HD3	44:RE:406:HIS:CG	2.35	0.61
44:RI:3:GLU:O	44:RI:133:GLN:HB2	2.00	0.61
45:RJ:21:TRP:CZ2	45:RJ:61:PRO:HB3	2.35	0.61
45:RJ:321:MET:HB2	44:RK:221:ARG:HH21	1.64	0.61
44:RM:231:ILE:O	44:RM:235:ILE:HG12	2.00	0.61
44:RM:257:THR:HG22	45:RN:397:TRP:CH2	2.34	0.61
44:SA:103:PHE:HA	44:SA:147:SER:OG	2.00	0.61
44:SC:225:THR:HA	44:SC:228:ASN:OD1	2.01	0.61
44:SC:274:PRO:HD2	44:SC:374:ALA:HA	1.82	0.61
44:SC:417:GLU:O	44:SC:420:GLU:HG2	2.00	0.61
44:SE:70:LEU:HD21	44:SE:114:ILE:HG21	1.81	0.61
44:SE:387:VAL:HG12	44:SE:390:ARG:HH12	1.65	0.61
45:SF:316:LEU:O	45:SF:365:VAL:HA	2.00	0.61
45:SH:136:THR:HG22	45:SH:167:PHE:HB2	1.82	0.61
45:SH:214:THR:O	45:SH:275:SER:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:154:LEU:HA	44:SI:157:LEU:HD12	1.82	0.61
45:SJ:101:TRP:CZ3	45:SJ:187:LEU:HD22	2.34	0.61
44:SK:169:PHE:CD1	44:SK:202:VAL:HG21	2.35	0.61
44:SK:270:SER:OG	44:SK:302:MET:HE2	2.00	0.61
44:SM:157:LEU:HD22	44:SM:161:TYR:HE1	1.65	0.61
44:SM:248:LEU:CD2	44:SM:353:VAL:HG13	2.30	0.61
44:SM:268:MET:HG3	44:SM:378:ILE:HG22	1.82	0.61
45:SN:1:MET:O	45:SN:2:ARG:HG2	2.00	0.61
45:SN:165:GLU:OE1	45:SN:250:LEU:HD13	2.00	0.61
45:SN:287:PRO:HA	45:SN:290:THR:CG2	2.30	0.61
44:TA:281:ALA:O	44:TA:286:LEU:HD21	2.00	0.61
44:TE:258:ASN:HD22	44:TE:352:LYS:HD3	1.65	0.61
44:TG:386:GLU:O	44:TG:390:ARG:N	2.25	0.61
44:TI:99:ALA:HB1	44:TI:105:ARG:HB2	1.83	0.61
44:TI:298:PRO:HA	44:TI:301:MET:HE2	1.81	0.61
44:TM:11:GLN:HB2	46:TM:501:GTP:O1B	1.99	0.61
45:UB:5:VAL:HG22	45:UB:133:PHE:CD1	2.35	0.61
45:UB:199:CYS:N	45:UB:264:HIS:O	2.31	0.61
45:UD:324:LYS:HD2	44:UE:210:TYR:CB	2.31	0.61
45:UF:208:TYR:HD1	45:UF:220:PRO:HG2	1.65	0.61
44:UG:233:GLN:O	44:UG:237:SER:N	2.32	0.61
45:UH:248:SER:CA	45:UH:252:LYS:HD2	2.19	0.61
45:UL:135:ILE:HG21	45:UL:152:ILE:HD11	1.81	0.61
45:UL:342:VAL:CG1	45:UL:345:ILE:HD13	2.30	0.61
44:UM:295:ALA:O	44:UM:301:MET:HE1	2.00	0.61
45:UN:152:ILE:HD12	45:UN:164:MET:CE	2.30	0.61
45:VB:209:ASP:OD1	45:VB:213:ARG:HD3	2.00	0.61
45:VD:54:ALA:HA	45:VD:283:ALA:HB2	1.82	0.61
45:VD:289:LEU:O	45:VD:293:MET:HG2	1.99	0.61
44:VE:145:THR:HG22	46:VE:501:GTP:PG	2.40	0.61
45:VF:207:LEU:HD23	45:VF:300:MET:HE1	1.81	0.61
44:VG:89:PRO:HG3	44:WG:280:LYS:HG3	1.81	0.61
44:VG:141:VAL:O	44:VG:147:SER:HB3	2.00	0.61
44:VI:166:LYS:C	44:VI:167:LEU:HD12	2.20	0.61
45:VJ:183:TYR:CE2	45:VJ:394:PHE:HB2	2.34	0.61
45:VJ:193:VAL:HG11	45:VJ:414:ASN:ND2	2.14	0.61
44:VM:35:GLN:HA	44:VM:60:LYS:HA	1.81	0.61
44:VM:88:HIS:H	44:VM:91:GLN:NE2	1.98	0.61
44:VM:214:ARG:HH11	44:VM:214:ARG:HG2	1.66	0.61
45:VN:377:MET:O	45:VN:380:ARG:HG2	2.00	0.61
44:WA:259:LEU:CD1	44:WA:378:ILE:HG22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:71:GLY:HA2	45:WB:74:ASP:HB2	1.80	0.61
44:WC:325:PRO:HG2	45:WF:222:TYR:CE2	2.35	0.61
45:WF:109:GLY:HA3	45:WF:147:MET:HG3	1.82	0.61
45:WF:143:THR:O	45:WF:147:MET:N	2.31	0.61
45:WF:166:THR:HG22	45:WF:198:GLU:O	2.00	0.61
45:WH:236:VAL:HA	45:WH:316:LEU:HD22	1.80	0.61
44:WI:332:ILE:HD12	44:WI:351:PHE:CD2	2.35	0.61
44:WK:261:PRO:HA	45:WN:394:PHE:HE1	1.62	0.61
44:WK:304:LYS:HZ1	44:WK:387:VAL:HG12	1.63	0.61
45:WL:211:CYS:SG	45:WL:215:LEU:HD12	2.39	0.61
44:WM:237:SER:HA	44:WM:320:ARG:HH11	1.65	0.61
44:WM:284:GLU:HG3	44:WM:286:LEU:HD23	1.82	0.61
2:0A:52:THR:HG21	35:7R:71:LYS:HB2	1.82	0.61
3:0B:221:ALA:HB2	45:JL:15:GLN:OE1	2.01	0.61
6:0E:119:ASP:HA	35:7R:579:ASN:HD21	1.64	0.61
2:1A:124:LEU:HD22	45:AF:279:GLN:NE2	2.15	0.61
20:1J:314:VAL:CA	44:IK:372:MET:HE3	2.28	0.61
22:1L:412:HIS:CG	44:CG:221:ARG:HH22	2.17	0.61
32:2I:83:ARG:NH2	44:GE:299:ALA:O	2.32	0.61
35:4R:90:ARG:CD	44:AE:42:ILE:HD13	2.29	0.61
35:4R:246:GLN:HG3	44:BE:58:ALA:HB1	1.81	0.61
37:5C:40:VAL:HA	44:KG:264:ARG:HE	1.64	0.61
37:5D:34:PHE:CD2	44:KK:431:ASP:C	2.68	0.61
38:5F:164:LYS:H	38:5F:165:PRO:CD	2.13	0.61
11:5Q:99:VAL:HB	11:5Q:101:ARG:HH12	1.65	0.61
11:5Q:105:ALA:HA	11:5Q:121:MET:O	2.00	0.61
36:5S:76:ILE:HD11	36:5S:119:LEU:CD2	2.31	0.61
36:5S:163:LYS:O	36:5S:166:GLN:HG2	2.00	0.61
41:6G:150:GLU:OE1	45:VH:336:LYS:NZ	2.32	0.61
11:6Q:105:ALA:HA	11:6Q:121:MET:O	2.00	0.61
35:6R:388:TYR:HA	45:EN:276:ARG:CZ	2.31	0.61
45:AB:240:LEU:O	45:AB:240:LEU:HD23	2.00	0.61
44:AG:54:SER:HB3	44:AG:64:ARG:NH2	2.15	0.61
45:AH:45:GLU:OE2	45:AH:242:PHE:HA	1.99	0.61
45:AH:267:MET:HE3	45:AH:299:MET:HE3	1.82	0.61
45:AH:405:GLU:OE1	45:AH:405:GLU:N	2.30	0.61
45:AJ:285:THR:HG23	45:AJ:287:PRO:HD2	1.81	0.61
45:AN:4:ILE:HD11	45:AN:50:TYR:CE1	2.35	0.61
45:AN:135:ILE:HB	45:AN:166:THR:HG22	1.82	0.61
44:BC:224:TYR:HD1	46:BC:501:GTP:C6	2.18	0.61
45:BD:406:MET:O	45:BD:410:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:88:HIS:C	44:BG:89:PRO:HD2	2.20	0.61
45:BH:133:PHE:HB2	45:BH:164:MET:SD	2.41	0.61
45:BJ:92:PHE:C	45:BJ:112:LEU:HD11	2.20	0.61
44:BK:35:GLN:OE1	44:BK:59:GLY:HA2	2.01	0.61
44:BK:260:VAL:O	45:BN:397:TRP:HH2	1.83	0.61
45:BL:207:LEU:CB	45:BL:225:LEU:HD22	2.22	0.61
45:BN:7:ILE:HB	45:BN:135:ILE:HD12	1.81	0.61
45:BN:67:ASP:OD1	45:BN:68:LEU:N	2.34	0.61
44:CA:182:VAL:HG21	44:CA:185:TYR:CE2	2.35	0.61
44:CA:213:CYS:SG	44:CA:217:LEU:HD12	2.40	0.61
45:CF:221:THR:HG22	45:CF:223:GLY:H	1.65	0.61
44:CG:258:ASN:OD1	45:CH:179:VAL:HG22	2.01	0.61
44:CI:34:GLY:O	44:CI:60:LYS:HA	2.00	0.61
45:CJ:130:LEU:HD21	45:CJ:133:PHE:CZ	2.34	0.61
45:CL:113:ILE:CD1	45:CL:150:LEU:HD22	2.23	0.61
45:CL:135:ILE:HG13	45:CL:152:ILE:CD1	2.31	0.61
44:CM:344:VAL:HG11	44:CM:346:TRP:CE2	2.36	0.61
45:CN:67:ASP:OD2	45:CN:72:THR:HG21	2.00	0.61
45:CN:276:ARG:NH1	45:CN:279:GLN:OE1	2.31	0.61
44:DA:105:ARG:O	44:DA:110:ILE:HG12	2.00	0.61
44:DA:417:GLU:O	44:DA:420:GLU:HG2	2.00	0.61
45:DB:304:ASP:OD1	45:DB:305:PRO:HD2	2.00	0.61
44:DC:47:ASP:HA	44:DC:49:PHE:CE1	2.35	0.61
45:DD:370:ASN:OD1	45:DD:422:TYR:OH	2.18	0.61
45:DD:378:PHE:HB3	45:DD:419:VAL:HG22	1.80	0.61
44:DI:269:LEU:H	44:DI:269:LEU:HD23	1.66	0.61
44:DK:334:THR:HG22	44:DK:338:LYS:NZ	2.11	0.61
45:DL:170:VAL:HG13	45:DL:377:MET:SD	2.41	0.61
45:DN:146:GLY:HA2	45:DN:149:THR:HG22	1.82	0.61
45:EB:251:ARG:O	45:EB:255:VAL:HG23	2.00	0.61
44:EE:99:ALA:HB3	44:EE:145:THR:HB	1.81	0.61
45:EF:97:ALA:CA	45:EF:103:LYS:HD2	2.29	0.61
45:EJ:61:PRO:HD2	45:EJ:84:LEU:O	2.01	0.61
45:EN:247:ASN:O	45:EN:252:LYS:NZ	2.27	0.61
45:EN:420:SER:HA	45:EN:423:GLN:HG3	1.82	0.61
44:FA:188:ILE:HG23	44:FA:425:LEU:CD1	2.30	0.61
44:FC:151:SER:HB2	44:FC:193:SER:OG	2.00	0.61
44:FC:174:SER:CB	44:FC:207:GLU:HB2	2.31	0.61
45:FD:113:ILE:HA	45:FD:116:VAL:HG12	1.83	0.61
45:FD:374:ILE:O	45:FD:377:MET:HG2	1.99	0.61
44:FG:168:GLY:O	44:FG:201:ALA:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:185:TYR:O	44:FG:189:LEU:HD23	2.01	0.61
44:FI:189:LEU:HD11	44:FI:418:PHE:CE1	2.35	0.61
44:FI:210:TYR:CE1	44:FI:227:LEU:HD11	2.36	0.61
44:FK:402:ARG:HB3	44:FK:405:VAL:HG21	1.82	0.61
45:FN:150:LEU:HD23	45:FN:154:LYS:HZ2	1.63	0.61
45:FN:250:LEU:O	45:FN:254:ALA:HB2	2.00	0.61
44:GA:246:GLY:HA3	44:GA:249:ASN:OD1	2.00	0.61
44:GA:344:VAL:HG12	44:GA:347:CYS:CB	2.29	0.61
45:GB:135:ILE:HG12	45:GB:164:MET:CE	2.30	0.61
45:GB:200:MET:CE	45:GB:266:PHE:HB2	2.25	0.61
45:GB:421:GLU:CA	45:GB:424:GLN:HB3	2.28	0.61
44:GE:54:SER:HB3	44:GE:62:VAL:CG1	2.29	0.61
45:GF:311:LEU:HG	45:GF:372:THR:HG23	1.82	0.61
45:GJ:334:GLN:HA	45:GJ:341:PHE:CD2	2.35	0.61
44:GK:88:HIS:HB3	44:GK:91:GLN:CD	2.20	0.61
44:GK:279:GLU:C	44:GK:280:LYS:HD3	2.21	0.61
45:GL:42:LEU:HG	45:GL:45:GLU:OE2	2.00	0.61
45:GL:83:GLN:OE1	45:GL:83:GLN:HA	1.99	0.61
44:GM:132:LEU:HD12	44:GM:132:LEU:H	1.65	0.61
44:GM:317:MET:HE2	44:GM:319:TYR:CE1	2.35	0.61
45:GN:113:ILE:HG13	45:GN:116:VAL:CG1	2.30	0.61
45:HB:187:LEU:HD21	45:HB:408:PHE:CD1	2.35	0.61
44:HC:172:TYR:HB2	44:HC:203:MET:HE1	1.81	0.61
45:HH:3:GLU:CG	45:HH:127:CYS:HB2	2.30	0.61
44:HI:28:HIS:CE1	44:HI:49:PHE:HA	2.33	0.61
44:HI:179:THR:HG21	46:HI:501:GTP:O2'	2.00	0.61
45:HJ:42:LEU:HA	45:HJ:45:GLU:CG	2.27	0.61
44:HK:264:ARG:HA	44:HK:264:ARG:NH1	2.16	0.61
44:HM:71:GLU:OE2	44:HM:73:THR:HB	2.01	0.61
45:HN:42:LEU:HD13	45:HN:45:GLU:CD	2.20	0.61
44:IC:312:TYR:HA	44:IC:381:SER:HB2	1.80	0.61
45:ID:192:LEU:CG	45:ID:196:ALA:HB2	2.30	0.61
45:IF:20:PHE:CZ	45:IF:24:ILE:HD11	2.35	0.61
45:IF:376:GLU:CG	45:IF:380:ARG:HH21	2.11	0.61
45:IF:405:GLU:OE1	45:IF:405:GLU:N	2.25	0.61
45:IH:61:PRO:HD3	45:IH:84:LEU:O	2.00	0.61
44:II:288:VAL:HA	44:II:291:ILE:CG1	2.29	0.61
44:IK:252:ILE:HA	44:IK:255:PHE:CD2	2.35	0.61
44:IK:326:LYS:HD3	45:IN:220:PRO:CD	2.30	0.61
45:JF:183:TYR:O	45:JF:186:THR:HG22	2.01	0.61
45:JF:206:ALA:O	45:JF:209:ASP:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:254:ALA:HA	45:JF:258:ILE:CD1	2.31	0.61
44:JG:70:LEU:HA	44:JG:95:GLY:HA3	1.82	0.61
44:JK:115:VAL:HG11	44:JK:152:LEU:HD23	1.83	0.61
45:JL:67:ASP:OD1	45:JL:69:GLU:N	2.33	0.61
44:JM:88:HIS:HE2	44:KM:280:LYS:HE2	1.64	0.61
44:JM:141:VAL:CG1	44:JM:187:SER:HA	2.30	0.61
44:JM:223:THR:H	44:JM:226:ASN:ND2	1.97	0.61
45:JN:206:ALA:O	45:JN:209:ASP:N	2.34	0.61
44:KA:28:HIS:CE1	44:KA:49:PHE:HA	2.35	0.61
44:KA:263:PRO:HD3	45:KD:396:HIS:CG	2.36	0.61
44:KC:260:VAL:HG21	45:KF:397:TRP:CH2	2.34	0.61
44:KE:70:LEU:HD11	44:KE:149:LEU:HD21	1.80	0.61
45:KF:215:LEU:HD21	45:KF:273:LEU:HD12	1.82	0.61
45:KH:296:ALA:HA	45:KH:299:MET:CE	2.30	0.61
45:KJ:172:SER:HB2	45:KJ:174:LYS:NZ	2.15	0.61
45:KJ:231:ALA:HB1	45:KJ:270:PHE:CZ	2.36	0.61
45:KJ:285:THR:HG23	45:KJ:287:PRO:HD2	1.81	0.61
44:KK:346:TRP:HE3	44:KK:348:PRO:HD3	1.64	0.61
44:KK:413:MET:CE	44:KK:413:MET:HA	2.30	0.61
44:LA:108:TYR:CE2	44:LA:413:MET:HE2	2.35	0.61
44:LA:271:SER:HB2	44:LA:301:MET:CE	2.29	0.61
45:LD:251:ARG:HH21	45:LD:254:ALA:HB3	1.64	0.61
45:LD:268:ILE:HG13	45:LD:300:MET:CE	2.30	0.61
44:LE:89:PRO:CG	44:ME:280:LYS:HG3	2.30	0.61
45:LF:117:LEU:HD21	45:LF:121:ARG:NH2	2.14	0.61
44:LG:1:MET:HG2	44:LG:131:GLY:HA3	1.82	0.61
44:LI:247:ALA:HB3	44:LI:355:ILE:CD1	2.18	0.61
44:LI:276:ILE:CG2	44:LI:280:LYS:HG3	2.31	0.61
44:LK:210:TYR:CE1	45:LL:324:LYS:CE	2.77	0.61
45:LL:131:GLN:O	45:LL:131:GLN:NE2	2.30	0.61
45:LL:248:SER:CB	45:LL:252:LYS:HD2	2.31	0.61
45:LN:268:ILE:HG13	45:LN:300:MET:SD	2.40	0.61
44:MA:71:GLU:CD	44:MA:72:PRO:HD2	2.20	0.61
44:MC:304:LYS:HE2	44:MC:304:LYS:HA	1.82	0.61
45:MD:31:ASP:HB3	45:MD:32:PRO:HD2	1.82	0.61
45:MD:318:ARG:HG2	45:MD:318:ARG:HH11	1.66	0.61
44:ME:155:GLU:HG2	44:ME:197:HIS:CE1	2.35	0.61
45:MF:238:CYS:HB2	45:MF:318:ARG:NE	2.15	0.61
44:MG:97:GLU:HG2	44:MG:105:ARG:HH22	1.65	0.61
45:MJ:104:GLY:O	45:MJ:109:GLY:HA3	2.00	0.61
45:MJ:238:CYS:HB2	45:MJ:318:ARG:NH2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:323:THR:O	45:MJ:326:VAL:N	2.33	0.61
44:MK:88:HIS:CE1	44:MK:90:GLU:HG2	2.35	0.61
44:MM:209:ILE:HA	44:MM:212:ILE:HG22	1.81	0.61
45:MN:206:ALA:O	45:MN:210:ILE:N	2.32	0.61
44:NA:210:TYR:HB3	45:NB:324:LYS:NZ	2.14	0.61
44:NA:377:MET:O	44:NA:378:ILE:HD13	2.01	0.61
45:NB:330:MET:HA	45:NB:333:VAL:CG1	2.30	0.61
45:ND:222:TYR:O	45:ND:226:ASN:ND2	2.33	0.61
45:NF:100:ASN:HB3	45:NF:103:LYS:HB3	1.82	0.61
45:NF:158:GLU:O	45:NF:160:PRO:HD3	1.99	0.61
45:NF:236:VAL:HG22	45:NF:250:LEU:CD2	2.31	0.61
45:NF:257:LEU:O	45:NF:259:PRO:HD3	2.00	0.61
45:NF:286:VAL:HG13	45:NF:363:MET:HE1	1.81	0.61
45:NF:374:ILE:HG22	45:NF:422:TYR:OH	2.00	0.61
44:NG:195:LEU:O	44:NG:266:HIS:NE2	2.27	0.61
44:NG:265:ILE:HG12	44:NG:432:TYR:CE1	2.35	0.61
45:NH:9:GLY:HA2	45:NH:66:MET:SD	2.40	0.61
44:NI:318:MET:HE3	44:NI:318:MET:HA	1.82	0.61
44:NK:208:ALA:HA	44:NK:304:LYS:HE3	1.82	0.61
44:NM:276:ILE:HG13	44:NM:371:VAL:HA	1.81	0.61
45:NN:285:THR:OG1	45:NN:288:GLU:OE1	2.14	0.61
45:NN:383:GLU:O	45:NN:386:THR:HG22	1.99	0.61
44:OA:287:SER:O	44:OA:291:ILE:HG12	2.00	0.61
44:OC:175:PRO:HG3	44:OC:390:ARG:NE	2.14	0.61
44:OC:288:VAL:O	44:OC:291:ILE:HG12	2.00	0.61
45:OD:167:PHE:CE1	45:OD:200:MET:HG2	2.34	0.61
45:OD:217:LEU:HD23	45:OD:217:LEU:H	1.65	0.61
45:OD:217:LEU:HD11	45:OD:220:PRO:HG3	1.81	0.61
45:OF:284:LEU:HD11	45:OF:363:MET:CG	2.30	0.61
45:OH:32:PRO:HG3	45:OH:81:PHE:HE2	1.66	0.61
45:OH:49:VAL:HG21	45:OH:241:ARG:CG	2.28	0.61
45:OH:267:MET:HE2	45:OH:301:CYS:HB2	1.82	0.61
44:OM:210:TYR:HE1	44:OM:227:LEU:HD11	1.63	0.61
44:PA:1:MET:O	44:PA:131:GLY:HA3	2.00	0.61
44:PA:175:PRO:CG	44:PA:304:LYS:HG2	2.30	0.61
45:PD:143:THR:HG21	48:PD:502:GDP:O1B	2.00	0.61
45:PF:20:PHE:O	45:PF:25:SER:OG	2.17	0.61
44:PG:49:PHE:HB2	44:PG:53:PHE:HB2	1.80	0.61
45:PH:245:GLN:C	45:PH:246:LEU:HD12	2.20	0.61
45:PL:10:GLY:O	45:PL:14:ASN:ND2	2.33	0.61
45:PN:403:MET:HE3	45:PN:404:ASP:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:210:TYR:CE1	44:QA:227:LEU:HD21	2.34	0.61
44:QA:346:TRP:HB3	45:QB:391:ARG:HG3	1.82	0.61
45:QB:19:LYS:HE3	45:QB:226:ASN:HB3	1.81	0.61
45:QB:375:GLN:HE21	45:QB:419:VAL:HG13	1.63	0.61
45:QD:249:ASP:OD2	44:QE:98:ASP:HB3	2.00	0.61
45:QD:253:LEU:HD21	45:QD:316:LEU:CD2	2.27	0.61
45:QD:266:PHE:CE1	45:QD:370:ASN:HB2	2.35	0.61
44:QE:261:PRO:HA	45:QF:394:PHE:CE1	2.34	0.61
44:QE:326:LYS:HG2	45:QF:220:PRO:HD2	1.82	0.61
45:QF:4:ILE:HG21	45:QF:250:LEU:HD11	1.81	0.61
45:QF:192:LEU:CD1	45:QF:196:ALA:HB2	2.30	0.61
44:QI:352:LYS:HE3	45:QJ:177:ASP:O	2.00	0.61
45:QJ:270:PHE:HD2	45:QJ:273:LEU:HD21	1.65	0.61
45:QL:350:LYS:HB3	44:QM:180:ALA:HA	1.81	0.61
44:RA:104:ALA:HB1	44:RA:411:GLU:HB2	1.82	0.61
45:RB:62:ARG:NH1	45:RB:127:CYS:HA	2.15	0.61
45:RB:135:ILE:O	45:RB:166:THR:HA	1.99	0.61
45:RB:173:PRO:CG	45:RB:380:ARG:HD3	2.30	0.61
45:RB:316:LEU:O	45:RB:365:VAL:HA	1.99	0.61
44:RC:172:TYR:HB3	44:RC:173:PRO:CD	2.31	0.61
44:RC:230:LEU:HD11	44:RC:368:LEU:HD21	1.83	0.61
44:RC:432:TYR:O	44:RC:435:VAL:HG12	2.00	0.61
45:RD:139:LEU:HD22	45:RD:170:VAL:CG1	2.30	0.61
45:RF:221:THR:CG2	45:RF:224:ASP:H	2.13	0.61
45:RH:73:MET:O	45:RH:76:VAL:HG12	2.00	0.61
45:RH:167:PHE:CE2	45:RH:233:MET:HG2	2.35	0.61
45:RJ:19:LYS:O	45:RJ:23:VAL:HG23	2.01	0.61
45:RJ:217:LEU:HD11	45:RJ:220:PRO:HG3	1.81	0.61
45:RJ:285:THR:CG2	45:RJ:287:PRO:HD2	2.30	0.61
45:RJ:285:THR:OG1	45:RJ:287:PRO:HD2	1.98	0.61
44:RM:290:GLU:HA	44:RM:293:ASN:HB2	1.82	0.61
44:RM:439:THR:HG21	45:RN:390:ARG:HE	1.64	0.61
45:RN:7:ILE:HB	45:RN:135:ILE:CD1	2.30	0.61
44:SA:21:TRP:HZ2	44:SA:65:ALA:HB2	1.66	0.61
44:SA:145:THR:N	46:SA:501:GTP:O2G	2.29	0.61
45:SB:22:GLU:HA	45:SB:25:SER:CB	2.29	0.61
44:SC:204:LEU:O	44:SC:209:ILE:HD11	1.99	0.61
44:SG:69:ASP:OD2	44:SG:74:VAL:HG21	2.00	0.61
44:SI:71:GLU:OE1	44:SI:73:THR:HB	2.01	0.61
44:SI:363:VAL:HG23	44:SI:364:PRO:HD2	1.80	0.61
44:SI:371:VAL:HG22	44:SI:372:MET:SD	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:319:TYR:O	44:SK:355:ILE:HA	2.00	0.61
44:SM:99:ALA:HB3	44:SM:145:THR:HG22	1.81	0.61
44:TE:413:MET:CE	44:TE:417:GLU:HG3	2.29	0.61
45:TF:324:LYS:O	45:TF:328:GLU:N	2.30	0.61
44:TG:227:LEU:O	44:TG:231:ILE:HD12	2.00	0.61
44:TI:257:THR:HA	45:TJ:397:TRP:CZ3	2.35	0.61
45:TJ:323:THR:O	45:TJ:326:VAL:N	2.33	0.61
44:TK:74:VAL:O	44:TK:77:GLU:HB3	2.00	0.61
44:TM:8:HIS:HD2	44:TM:16:VAL:HG13	1.65	0.61
44:TM:54:SER:HB3	44:TM:64:ARG:NH2	2.16	0.61
44:UA:206:ASN:CG	44:UA:227:LEU:HD21	2.20	0.61
45:UB:265:PHE:CE2	45:UB:418:LEU:HD21	2.35	0.61
45:UB:295:ASP:HB3	45:UB:298:ASN:HB3	1.82	0.61
44:UC:141:VAL:CG1	44:UC:173:PRO:HD3	2.30	0.61
44:UC:347:CYS:C	45:UD:388:MET:HE1	2.20	0.61
45:UD:4:ILE:HB	45:UD:132:GLY:O	2.00	0.61
44:UE:320:ARG:HG3	44:UE:360:PRO:HD3	1.81	0.61
45:UF:68:LEU:HB2	45:UF:147:MET:CE	2.27	0.61
45:UF:260:PHE:HB3	45:UF:261:PRO:HD2	1.83	0.61
45:UF:285:THR:CG2	45:UF:287:PRO:HD2	2.29	0.61
44:UG:346:TRP:CD1	45:UH:391:ARG:HG3	2.35	0.61
45:UH:378:PHE:HB3	45:UH:419:VAL:HG21	1.82	0.61
44:UI:66:VAL:HG21	44:UI:122:ILE:HD11	1.82	0.61
45:UJ:139:LEU:HD23	45:UJ:188:SER:HB2	1.83	0.61
45:UL:330:MET:CG	45:UL:349:ILE:HD12	2.29	0.61
45:UL:398:TYR:O	45:UL:403:MET:HB2	1.99	0.61
44:UM:99:ALA:O	44:UM:105:ARG:HD3	2.00	0.61
45:UN:208:TYR:CE1	45:UN:225:LEU:HD11	2.35	0.61
44:VA:265:ILE:HG23	44:VA:432:TYR:OH	1.99	0.61
45:VB:135:ILE:HG21	45:VB:152:ILE:HD11	1.80	0.61
44:VC:93:ILE:H	44:VC:93:ILE:HD12	1.65	0.61
45:VF:45:GLU:O	45:VF:46:ARG:HD3	2.01	0.61
44:VI:14:ILE:HD13	44:VI:75:ILE:HD11	1.82	0.61
45:VJ:2:ARG:NH2	45:VJ:240:LEU:HD12	2.14	0.61
45:VJ:100:ASN:O	45:VJ:103:LYS:N	2.32	0.61
45:VJ:380:ARG:CA	45:VJ:383:GLU:HB3	2.26	0.61
45:VL:186:THR:HG23	45:VL:415:MET:CE	2.29	0.61
45:VL:309:ARG:N	45:VL:372:THR:OG1	2.33	0.61
44:VM:174:SER:HG	44:VM:207:GLU:H	1.47	0.61
45:VN:28:HIS:ND1	45:VN:43:GLN:HG3	2.15	0.61
45:VN:45:GLU:O	45:VN:46:ARG:HD3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:288:GLU:O	45:VN:291:GLN:NE2	2.31	0.61
45:WB:19:LYS:HA	45:WB:22:GLU:HB2	1.81	0.61
44:WC:100:ALA:O	45:WD:255:VAL:HG21	1.99	0.61
44:WC:103:PHE:CE1	44:WC:147:SER:HB2	2.36	0.61
45:WD:25:SER:HA	45:WD:30:ILE:HB	1.81	0.61
44:WE:295:ALA:HB1	44:WE:377:MET:CE	2.30	0.61
45:WN:141:GLY:HA3	48:WN:501:GDP:O3A	2.00	0.61
45:WN:314:SER:OG	45:WN:368:VAL:O	2.13	0.61
45:WN:314:SER:HA	45:WN:350:LYS:HB3	1.82	0.61
19:1I:22:LEU:HD13	45:ID:46:ARG:NH1	2.04	0.61
19:1I:89:THR:CG2	45:JD:320:ARG:HD3	2.18	0.61
26:1R:92:TRP:CH2	44:AC:372:MET:HG3	2.35	0.61
27:1W:61:LYS:HG3	45:LH:361:LEU:CD1	2.22	0.61
24:2O:239:ILE:HD13	45:VJ:276:ARG:NH1	2.12	0.61
15:3V:37:THR:CG2	44:MA:214:ARG:HE	2.12	0.61
34:4F:5:VAL:HG11	44:HI:279:GLU:OE1	2.00	0.61
31:4H:169:THR:CG2	44:MI:58:ALA:HA	2.30	0.61
37:5D:19:ARG:HG3	45:KN:262:ARG:NH2	2.14	0.61
38:5G:165:PRO:HD2	38:5G:166:ARG:HH11	1.66	0.61
36:5S:78:VAL:HB	36:5S:80:PHE:CD2	2.35	0.61
36:5S:91:LEU:HD11	36:5S:96:LEU:CG	2.30	0.61
41:6G:101:GLU:O	41:6G:105:LYS:N	2.34	0.61
35:7R:304:LEU:HA	45:CB:78:ALA:O	2.00	0.61
44:AA:422:ARG:O	44:AA:426:ALA:N	2.28	0.61
45:AB:223:GLY:HA2	45:AB:226:ASN:HB2	1.81	0.61
44:AC:19:ALA:CB	44:AC:228:ASN:HB3	2.31	0.61
44:AC:287:SER:O	44:AC:291:ILE:HG23	2.00	0.61
45:AD:73:MET:SD	45:AD:92:PHE:HB3	2.40	0.61
44:AG:181:VAL:HG12	45:AH:256:ASN:HB3	1.82	0.61
44:AG:261:PRO:HA	45:AJ:394:PHE:HD1	1.65	0.61
44:AM:298:PRO:HB3	44:AM:307:PRO:HD2	1.82	0.61
45:AN:8:GLN:HE22	45:AN:17:GLY:HA2	1.64	0.61
44:BG:7:ILE:HB	44:BG:137:VAL:HG12	1.82	0.61
44:BG:407:TRP:HZ3	45:BH:255:VAL:HA	1.61	0.61
45:BH:267:MET:CE	45:BH:301:CYS:HB2	2.31	0.61
44:BI:88:HIS:HB2	44:CI:283:HIS:ND1	2.16	0.61
44:BI:256:GLN:O	45:BL:397:TRP:HH2	1.83	0.61
45:BJ:21:TRP:CZ3	45:BJ:61:PRO:HB3	2.35	0.61
45:BJ:89:ASN:HD21	45:BJ:119:VAL:HG11	1.65	0.61
45:BN:50:TYR:O	45:BN:62:ARG:HG2	2.00	0.61
45:BN:396:HIS:HA	45:BN:399:THR:OG1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:163:ILE:CD1	45:CB:250:LEU:HB2	2.31	0.61
44:CC:247:ALA:HB2	44:CC:357:TYR:CE2	2.35	0.61
44:CC:269:LEU:H	44:CC:269:LEU:HD23	1.66	0.61
44:CC:340:THR:HG23	44:CC:341:ILE:HG13	1.82	0.61
45:CD:267:MET:CE	45:CD:305:PRO:HB3	2.30	0.61
44:CE:250:VAL:HG12	44:CE:255:PHE:CE1	2.35	0.61
45:CF:314:SER:O	45:CF:368:VAL:HG12	2.00	0.61
44:CG:80:THR:O	44:CG:84:ARG:NH2	2.33	0.61
44:CG:205:ASP:OD2	44:CG:304:LYS:N	2.29	0.61
45:CH:40:SER:OG	45:CH:43:GLN:HG3	1.99	0.61
45:CH:189:VAL:HG11	45:CH:415:MET:HE2	1.83	0.61
44:CI:251:ASP:O	44:CI:254:GLU:N	2.30	0.61
45:CJ:174:LYS:HD3	45:CJ:175:VAL:HG13	1.83	0.61
45:CL:350:LYS:HE3	45:CL:350:LYS:CA	2.23	0.61
44:CM:137:VAL:HG12	44:CM:167:LEU:O	2.00	0.61
45:CN:25:SER:HA	45:CN:30:ILE:HB	1.82	0.61
45:CN:320:ARG:HA	45:CN:355:ASP:OD1	1.99	0.61
44:DA:79:ARG:HG2	44:DA:92:LEU:HD22	1.82	0.61
45:DB:185:ALA:O	45:DB:189:VAL:HG23	2.00	0.61
45:DB:314:SER:N	45:DB:368:VAL:O	2.28	0.61
44:DC:151:SER:O	44:DC:155:GLU:HG3	2.00	0.61
45:DF:392:LYS:HD3	45:DF:395:LEU:HD23	1.81	0.61
45:DH:22:GLU:HG2	45:DH:81:PHE:HD2	1.62	0.61
44:DI:37:PRO:O	44:DI:38:SER:HB3	2.01	0.61
45:DN:326:VAL:HA	45:DN:329:GLN:HB2	1.81	0.61
44:EA:208:ALA:O	44:EA:212:ILE:HG12	2.01	0.61
44:EC:287:SER:O	44:EC:291:ILE:HG23	2.00	0.61
44:EE:147:SER:O	44:EE:151:SER:N	2.27	0.61
45:EH:73:MET:O	45:EH:76:VAL:HG12	2.01	0.61
45:EH:292:GLN:HG3	45:EH:292:GLN:O	1.99	0.61
44:EI:176:GLN:NE2	44:EI:207:GLU:OE2	2.32	0.61
44:EI:210:TYR:CE1	44:EI:227:LEU:HD11	2.34	0.61
44:EK:92:LEU:O	44:EK:92:LEU:HG	2.00	0.61
44:EM:296:PHE:HD2	44:EM:335:ILE:HD12	1.65	0.61
45:EN:266:PHE:CD2	45:EN:368:VAL:HG12	2.34	0.61
44:FC:242:LEU:HD21	44:FC:251:ASP:HA	1.82	0.61
45:FD:28:HIS:O	45:FD:43:GLN:NE2	2.25	0.61
45:FD:133:PHE:HB2	45:FD:164:MET:HE1	1.81	0.61
45:FF:334:GLN:HB2	45:FF:349:ILE:HD12	1.82	0.61
44:FG:174:SER:HB3	44:FG:175:PRO:HD2	1.82	0.61
45:FJ:242:PHE:CD1	45:FJ:356:ILE:HG13	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:200:VAL:HG13	44:FK:268:MET:HG2	1.83	0.61
44:FK:268:MET:CE	44:FK:268:MET:HA	2.30	0.61
45:FL:6:HIS:HB2	45:FL:134:GLN:NE2	2.10	0.61
45:FL:412:GLU:O	45:FL:416:ASN:N	2.28	0.61
44:FM:109:THR:O	44:FM:110:ILE:HD13	2.01	0.61
44:GA:228:ASN:O	44:GA:232:ALA:N	2.28	0.61
44:GA:271:SER:HA	44:GA:302:MET:HE3	1.82	0.61
44:GA:363:VAL:CG2	44:GA:364:PRO:HD2	2.30	0.61
45:GB:113:ILE:HD13	45:GB:150:LEU:HD22	1.81	0.61
45:GD:49:VAL:HG12	45:GD:50:TYR:CD1	2.35	0.61
45:GH:377:MET:O	45:GH:381:VAL:HG23	1.99	0.61
45:GJ:178:THR:HG22	45:GJ:180:VAL:H	1.65	0.61
45:GL:268:ILE:CG2	45:GL:368:VAL:HG22	2.31	0.61
44:HA:100:ALA:O	45:HB:255:VAL:HG21	2.00	0.61
44:HA:168:GLY:O	44:HA:201:ALA:HA	2.00	0.61
44:HA:201:ALA:O	44:HA:268:MET:N	2.32	0.61
45:HB:222:TYR:CD1	45:HB:225:LEU:HD12	2.35	0.61
45:HD:325:GLU:HA	45:HD:328:GLU:HG2	1.82	0.61
44:HE:53:PHE:O	44:HE:64:ARG:NH1	2.31	0.61
44:HE:332:ILE:HG23	44:HE:351:PHE:CE2	2.35	0.61
44:HG:208:ALA:O	44:HG:212:ILE:HG12	2.00	0.61
44:HG:320:ARG:HH12	44:HG:360:PRO:HB3	1.65	0.61
45:HH:133:PHE:HB2	45:HH:164:MET:SD	2.40	0.61
45:HL:200:MET:HG2	45:HL:266:PHE:HB2	1.82	0.61
45:HL:341:PHE:HB3	45:HL:348:ASN:ND2	2.07	0.61
44:HM:223:THR:O	44:HM:227:LEU:HG	2.00	0.61
44:HM:314:ALA:HB3	44:HM:380:ASN:HB3	1.82	0.61
44:HM:387:VAL:HA	44:HM:390:ARG:HG2	1.82	0.61
45:HN:86:ARG:NH1	45:IN:281:TYR:HB2	2.08	0.61
44:IA:2:ARG:O	44:IA:51:THR:HA	2.01	0.61
44:IA:212:ILE:HD13	44:IA:215:ARG:HH22	1.64	0.61
44:IA:288:VAL:HA	44:IA:291:ILE:CD1	2.31	0.61
45:IB:11:GLN:O	45:IB:15:GLN:HG2	2.00	0.61
44:IC:171:ILE:HG23	44:IC:204:LEU:O	2.00	0.61
44:IE:223:THR:O	44:IE:226:ASN:N	2.34	0.61
44:IG:88:HIS:HA	45:JH:281:TYR:CD2	2.35	0.61
45:IH:12:CYS:SG	45:IH:13:GLY:N	2.73	0.61
45:IJ:192:LEU:HD12	45:IJ:196:ALA:HB2	1.82	0.61
44:IK:34:GLY:HA3	44:IK:60:LYS:HB2	1.81	0.61
45:IN:127:CYS:SG	45:IN:130:LEU:HB2	2.40	0.61
44:JA:195:LEU:CD1	44:JA:428:LEU:HD22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:7:ILE:HB	44:JC:137:VAL:HG12	1.82	0.61
44:JC:204:LEU:HD13	44:JC:231:ILE:CD1	2.28	0.61
45:JD:179:VAL:HG13	45:JD:180:VAL:HG13	1.82	0.61
44:JE:262:TYR:HB3	44:JE:263:PRO:HD2	1.82	0.61
44:JI:238:LEU:HA	44:JI:318:MET:CE	2.30	0.61
44:JM:317:MET:CE	44:JM:377:MET:HG2	2.22	0.61
44:KA:270:SER:O	44:KA:302:MET:HB3	1.99	0.61
45:KB:25:SER:HB2	45:KB:81:PHE:CE2	2.26	0.61
45:KB:228:LEU:CD1	45:KB:273:LEU:HD11	2.26	0.61
44:KC:315:CYS:N	44:KC:350:GLY:O	2.30	0.61
44:KE:96:LYS:HD2	45:KF:1:MET:SD	2.41	0.61
44:KE:175:PRO:HD2	44:KE:207:GLU:OE2	2.00	0.61
45:KF:322:SER:OG	45:KF:325:GLU:OE1	2.17	0.61
44:KG:20:CYS:HA	44:KG:232:ALA:HB1	1.83	0.61
44:KI:20:CYS:HA	44:KI:232:ALA:HB1	1.82	0.61
44:KI:147:SER:O	44:KI:151:SER:N	2.31	0.61
45:KL:239:CYS:SG	45:KL:247:ASN:HA	2.40	0.61
44:KM:96:LYS:HD2	44:KM:97:GLU:HB3	1.83	0.61
45:KN:379:LYS:HE3	45:KN:419:VAL:HG11	1.83	0.61
44:LA:311:LYS:HG3	44:LA:342:GLN:OE1	1.99	0.61
45:LD:233:MET:O	45:LD:236:VAL:HG12	2.00	0.61
44:LG:100:ALA:HB1	45:LH:252:LYS:HA	1.82	0.61
44:LG:244:PHE:CE2	44:LG:358:GLN:HG2	2.35	0.61
45:LH:319:GLY:N	45:LH:354:CYS:O	2.33	0.61
45:LN:99:ASN:HA	45:LN:142:GLY:CA	2.31	0.61
45:LN:101:TRP:CE3	45:LN:187:LEU:HD13	2.36	0.61
45:MF:217:LEU:HD12	45:MF:220:PRO:HD3	1.82	0.61
45:MF:257:LEU:HD21	45:MF:368:VAL:O	2.00	0.61
44:MI:100:ALA:HB1	45:MJ:255:VAL:HG21	1.82	0.61
45:MJ:73:MET:HE3	45:MJ:92:PHE:HB3	1.82	0.61
45:MJ:201:VAL:HG23	45:MJ:301:CYS:SG	2.40	0.61
44:NA:100:ALA:HA	45:NB:252:LYS:HD3	1.82	0.61
44:NA:258:ASN:OD1	45:ND:179:VAL:HG22	1.99	0.61
45:ND:9:GLY:HA2	45:ND:66:MET:SD	2.40	0.61
45:ND:263:LEU:HG	45:ND:422:TYR:HD1	1.66	0.61
44:NE:89:PRO:HG2	44:OE:280:LYS:HG2	1.82	0.61
44:NE:209:ILE:O	44:NE:212:ILE:HG22	2.01	0.61
45:NF:105:HIS:CE1	45:NF:150:LEU:HD12	2.35	0.61
44:NG:260:VAL:HG23	44:NG:265:ILE:O	2.01	0.61
45:NH:11:GLN:O	45:NH:14:ASN:HB2	2.00	0.61
44:NI:3:GLU:HG2	44:NI:64:ARG:NH2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:237:SER:HA	44:NI:320:ARG:NH2	2.15	0.61
45:NJ:8:GLN:O	45:NJ:66:MET:HG2	2.01	0.61
44:NK:209:ILE:CG2	44:NK:227:LEU:HD22	2.26	0.61
45:NL:6:HIS:CE1	45:NL:8:GLN:HB3	2.32	0.61
45:NL:372:THR:HG21	45:NL:426:GLN:CG	2.30	0.61
44:NM:417:GLU:O	44:NM:420:GLU:HG2	1.99	0.61
45:NN:238:CYS:HA	45:NN:241:ARG:CZ	2.31	0.61
45:OB:183:TYR:OH	45:OB:393:ALA:HB3	2.00	0.61
45:OB:316:LEU:HD13	45:OB:352:SER:OG	2.01	0.61
45:OD:199:CYS:O	45:OD:265:PHE:HA	1.99	0.61
44:OE:93:ILE:HD13	44:OE:117:LEU:CB	2.11	0.61
45:OF:317:PHE:HB3	45:OF:321:MET:HE3	1.81	0.61
44:OG:354:GLY:O	44:OG:355:ILE:HD13	1.99	0.61
45:OJ:86:ARG:HA	45:PJ:281:TYR:HD2	1.62	0.61
45:OJ:113:ILE:CD1	45:OJ:150:LEU:HG	2.29	0.61
45:OJ:341:PHE:HB3	45:OJ:348:ASN:HD21	1.64	0.61
45:OJ:396:HIS:O	45:OJ:399:THR:OG1	2.17	0.61
44:PA:290:GLU:O	44:PA:294:SER:N	2.33	0.61
45:PB:4:ILE:CG2	45:PB:131:GLN:HB3	2.29	0.61
45:PB:68:LEU:O	45:PB:96:GLY:N	2.32	0.61
45:PB:267:MET:HE1	45:PB:299:MET:HB3	1.82	0.61
45:PD:19:LYS:HG2	45:PD:227:HIS:N	2.15	0.61
44:PE:284:GLU:HG3	44:PE:286:LEU:HD22	1.83	0.61
45:PF:165:GLU:OE2	45:PF:250:LEU:HD22	2.00	0.61
44:PG:67:PHE:HB2	44:PG:92:LEU:CD2	2.30	0.61
44:PG:288:VAL:CG1	44:PG:327:ASP:HB3	2.29	0.61
45:PL:345:ILE:HG13	45:PL:345:ILE:O	2.00	0.61
45:PN:42:LEU:HG	45:PN:45:GLU:OE2	2.01	0.61
44:QA:103:PHE:HD2	44:QA:189:LEU:HD13	1.65	0.61
45:QB:73:MET:HE1	45:QB:92:PHE:HB3	1.81	0.61
45:QB:207:LEU:HB3	45:QB:225:LEU:CD2	2.29	0.61
45:QJ:65:LEU:HB2	45:QJ:90:PHE:CE1	2.36	0.61
45:QJ:190:HIS:ND1	45:QJ:411:ALA:HA	2.15	0.61
44:QK:23:LEU:HD11	44:QK:233:GLN:OE1	2.01	0.61
44:QK:349:THR:O	45:QL:179:VAL:HB	2.00	0.61
44:QM:199:ASP:O	44:QM:266:HIS:HB2	2.01	0.61
45:QN:71:GLY:HA2	45:QN:74:ASP:OD1	2.00	0.61
44:RA:248:LEU:CB	44:RA:355:ILE:HB	2.29	0.61
45:RB:398:TYR:HB3	45:RB:403:MET:CE	2.30	0.61
45:RD:31:ASP:OD2	45:RD:37:HIS:ND1	2.33	0.61
45:RD:259:PRO:HA	44:RE:404:PHE:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:267:MET:HE1	45:RH:371:SER:HB3	1.82	0.61
44:RI:241:SER:HB3	44:RI:356:ASN:HD21	1.65	0.61
44:RK:132:LEU:CD2	44:RK:164:LYS:HD2	2.31	0.61
44:RK:316:SER:CB	44:RK:352:LYS:HB3	2.29	0.61
45:RL:4:ILE:HG23	45:RL:131:GLN:HB3	1.81	0.61
45:RL:201:VAL:HG23	45:RL:301:CYS:SG	2.40	0.61
45:RL:348:ASN:HA	44:RM:181:VAL:CG1	2.30	0.61
44:RM:69:ASP:OD2	44:RM:74:VAL:HG21	2.00	0.61
44:RM:88:HIS:HE1	44:RM:90:GLU:HG2	1.64	0.61
44:RM:134:GLY:HA2	44:RM:164:LYS:HE3	1.82	0.61
44:SA:23:LEU:HD11	44:SA:361:THR:HG23	1.80	0.61
44:SA:205:ASP:OD1	44:SA:303:ALA:HA	1.99	0.61
44:SA:319:TYR:O	44:SA:356:ASN:N	2.28	0.61
45:SB:373:ALA:HB2	45:SB:377:MET:CE	2.30	0.61
45:SD:86:ARG:HE	45:SD:87:PRO:HD2	1.64	0.61
44:SE:27:GLU:HG3	44:SE:361:THR:HG21	1.82	0.61
44:SG:3:GLU:N	44:SG:133:GLN:OE1	2.21	0.61
44:SG:28:HIS:ND1	44:SG:49:PHE:HA	2.14	0.61
45:SH:105:HIS:CE1	45:SH:150:LEU:HD12	2.35	0.61
44:SI:137:VAL:HG12	44:SI:167:LEU:O	2.01	0.61
45:SJ:285:THR:HB	45:SJ:287:PRO:HD2	1.82	0.61
44:SK:101:ASN:HA	44:SK:144:GLY:CA	2.29	0.61
45:SL:4:ILE:HG22	45:SL:132:GLY:H	1.66	0.61
44:SM:206:ASN:OD1	46:SM:501:GTP:N2	2.33	0.61
44:SM:211:ASP:HB3	44:SM:215:ARG:NH1	2.15	0.61
45:SN:165:GLU:CD	45:SN:250:LEU:HD13	2.21	0.61
45:TB:317:PHE:CD2	45:TB:326:VAL:HG22	2.35	0.61
44:TC:8:HIS:CD2	44:TC:138:PHE:HB2	2.36	0.61
44:TC:228:ASN:O	44:TC:231:ILE:N	2.33	0.61
45:TD:101:TRP:CZ3	45:TD:187:LEU:HD13	2.36	0.61
45:TD:200:MET:CE	45:TD:266:PHE:HB2	2.30	0.61
44:TE:98:ASP:O	44:TE:105:ARG:NH1	2.33	0.61
44:TG:17:GLY:HA2	44:TG:20:CYS:SG	2.39	0.61
45:TH:130:LEU:HG	45:TH:132:GLY:H	1.65	0.61
44:TI:230:LEU:HD23	44:TI:302:MET:CE	2.31	0.61
45:TJ:99:ASN:CA	45:TJ:142:GLY:HA3	2.31	0.61
44:TK:169:PHE:CD1	44:TK:202:VAL:HG21	2.36	0.61
44:TK:284:GLU:HG3	44:TK:286:LEU:CD2	2.29	0.61
44:TK:324:VAL:HG11	45:TL:220:PRO:O	2.01	0.61
44:UA:383:ALA:O	44:UA:386:GLU:HG2	1.99	0.61
45:UB:375:GLN:HA	45:UB:378:PHE:CD2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:223:THR:O	44:UC:227:LEU:HG	2.00	0.61
44:UC:298:PRO:HG3	44:UC:308:ARG:NH1	2.14	0.61
45:UD:246:LEU:HA	44:UE:11:GLN:NE2	2.15	0.61
45:UD:308:GLY:HA2	45:UD:426:GLN:OE1	2.00	0.61
44:UE:203:MET:HB2	44:UE:303:ALA:HB2	1.82	0.61
44:UG:34:GLY:O	44:UG:60:LYS:HA	2.00	0.61
45:UH:19:LYS:O	45:UH:23:VAL:N	2.31	0.61
45:UH:206:ALA:O	45:UH:209:ASP:N	2.34	0.61
45:UH:293:MET:HG3	45:UH:294:PHE:CD1	2.35	0.61
44:UI:202:VAL:HG22	44:UI:268:MET:SD	2.41	0.61
44:UK:189:LEU:HD11	44:UK:418:PHE:CZ	2.35	0.61
44:UM:75:ILE:CG2	44:UM:94:SER:HB2	2.29	0.61
44:UM:235:ILE:O	44:UM:238:LEU:N	2.34	0.61
45:UN:329:GLN:HA	45:UN:332:ASN:HB3	1.81	0.61
44:VA:316:SER:OG	44:VA:378:ILE:O	2.17	0.61
45:VD:288:GLU:O	45:VD:291:GLN:HG3	2.01	0.61
44:VE:259:LEU:HB3	44:VE:268:MET:CE	2.29	0.61
45:VF:4:ILE:CG2	45:VF:131:GLN:HB3	2.31	0.61
45:VF:150:LEU:O	45:VF:150:LEU:HD23	2.00	0.61
45:VL:116:VAL:O	45:VL:120:VAL:HG23	2.01	0.61
45:VL:290:THR:HG21	45:VL:329:GLN:HB3	1.83	0.61
44:VM:155:GLU:HG2	44:VM:197:HIS:NE2	2.14	0.61
44:VM:254:GLU:OE1	44:VM:352:LYS:NZ	2.30	0.61
45:VN:118:ASP:HB3	45:VN:148:GLY:CA	2.30	0.61
44:WA:186:ASN:HA	44:WA:189:LEU:CD1	2.31	0.61
44:WA:427:ALA:O	44:WA:430:LYS:HG3	2.00	0.61
45:WB:66:MET:CE	45:WB:147:MET:HG3	2.30	0.61
44:WE:390:ARG:HG3	44:WE:391:LEU:HD12	1.80	0.61
45:WL:19:LYS:O	45:WL:22:GLU:HB2	2.00	0.61
44:WM:98:ASP:OD1	44:WM:99:ALA:N	2.32	0.61
44:WM:297:GLU:HB2	44:WM:300:ASN:ND2	2.15	0.61
45:WN:405:GLU:HA	45:WN:408:PHE:CD2	2.33	0.61
2:0A:150:LEU:HA	35:7R:78:ILE:HD11	1.81	0.61
3:0B:304:ARG:HH22	44:KI:357:TYR:HB3	1.64	0.61
14:1U:181:LYS:CE	44:VC:59:GLY:HA2	2.30	0.61
2:2A:33:GLN:HE21	45:MJ:357:PRO:HG2	1.64	0.61
29:2F:68:THR:OG1	45:HF:213:ARG:NH1	2.30	0.61
27:2W:248:GLN:OE1	45:LN:276:ARG:HD2	1.99	0.61
26:3R:298:TYR:O	45:CL:78:ALA:HA	1.98	0.61
34:4F:215:THR:HG21	45:HN:56:GLY:O	1.99	0.61
38:5F:42:TYR:HB2	44:OC:371:VAL:HG12	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5F:176:ASP:O	38:5F:180:THR:HG23	2.00	0.61
44:AA:68:LEU:HD21	44:AA:118:CYS:CB	2.30	0.61
44:AA:183:GLU:HG2	44:AA:184:PRO:CD	2.30	0.61
44:AA:408:TYR:HB3	44:AA:413:MET:CE	2.30	0.61
45:AB:104:GLY:HA3	45:AB:143:THR:HA	1.82	0.61
44:AC:276:ILE:HG21	44:AC:281:ALA:HA	1.83	0.61
45:AD:117:LEU:HD22	45:AD:154:LYS:HZ3	1.65	0.61
44:AE:185:TYR:HE2	44:AE:404:PHE:HB2	1.64	0.61
45:AF:202:ILE:HD12	45:AF:300:MET:CG	2.29	0.61
45:AL:303:ALA:HB1	45:AL:373:ALA:CB	2.30	0.61
45:AN:72:THR:O	45:AN:75:SER:OG	2.09	0.61
44:BE:36:MET:HG3	44:BE:37:PRO:HD2	1.83	0.61
44:BG:118:CYS:O	44:BG:122:ILE:HG12	2.00	0.61
44:BG:265:ILE:HG23	44:BG:432:TYR:OH	2.01	0.61
45:BJ:257:LEU:O	45:BJ:259:PRO:HD3	2.01	0.61
45:BN:377:MET:O	45:BN:380:ARG:HG2	2.00	0.61
44:CA:314:ALA:HB3	44:CA:380:ASN:HB2	1.82	0.61
45:CB:25:SER:O	45:CB:30:ILE:N	2.30	0.61
44:CC:87:PHE:HB3	44:CC:91:GLN:HE21	1.65	0.61
45:CD:310:TYR:CD1	45:CD:371:SER:HB2	2.36	0.61
44:CI:268:MET:HB2	44:CI:379:SER:C	2.21	0.61
45:CJ:170:VAL:CG2	45:CJ:171:PRO:HD2	2.30	0.61
44:CK:41:THR:O	44:CK:42:ILE:HD13	2.01	0.61
44:CK:303:ALA:O	44:CK:304:LYS:HG2	2.01	0.61
44:CM:259:LEU:HB3	44:CM:268:MET:CE	2.31	0.61
44:CM:311:LYS:HD2	44:CM:342:GLN:HG3	1.82	0.61
45:CN:107:THR:HG23	45:CN:108:GLU:N	2.16	0.61
44:DA:311:LYS:HA	44:DA:342:GLN:NE2	2.16	0.61
45:DB:214:THR:O	45:DB:216:LYS:HG3	2.00	0.61
44:DC:9:VAL:HG23	44:DC:68:LEU:HB3	1.81	0.61
44:DC:390:ARG:HG3	44:DC:391:LEU:HD12	1.81	0.61
45:DD:6:HIS:HE2	45:DD:8:GLN:HB2	1.65	0.61
44:DE:30:ILE:HG13	44:DE:30:ILE:O	2.00	0.61
45:DH:67:ASP:OD2	45:DH:72:THR:OG1	2.19	0.61
45:DH:240:LEU:HD23	45:DH:240:LEU:O	2.01	0.61
45:DH:310:TYR:CE1	45:DH:371:SER:HB2	2.35	0.61
44:EA:75:ILE:CG2	44:EA:92:LEU:HD13	2.30	0.61
44:EA:175:PRO:HB3	44:EA:390:ARG:HD3	1.82	0.61
44:EC:401:LYS:O	44:EC:402:ARG:HG2	2.00	0.61
44:EC:423:GLU:O	44:EC:426:ALA:N	2.34	0.61
45:ED:100:ASN:HD21	45:ED:102:ALA:HB3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EE:12:GLY:O	44:EE:16:VAL:HG22	2.01	0.61
44:EE:158:SER:O	44:EE:162:GLY:HA2	2.00	0.61
45:EF:221:THR:HG22	45:EF:222:TYR:H	1.66	0.61
45:EJ:240:LEU:HD12	45:EJ:249:ASP:CA	2.27	0.61
44:EK:88:HIS:HB3	44:EK:91:GLN:CG	2.29	0.61
45:EL:269:GLY:CA	45:EL:300:MET:HE1	2.29	0.61
44:EM:72:PRO:HG3	44:EM:95:GLY:O	2.01	0.61
45:EN:68:LEU:HD12	45:EN:93:GLY:HA3	1.81	0.61
45:EN:70:PRO:HG2	45:EN:94:GLN:HE22	1.65	0.61
45:EN:207:LEU:HB3	45:EN:225:LEU:HD22	1.82	0.61
44:FA:401:LYS:O	44:FA:402:ARG:HG2	2.01	0.61
45:FB:133:PHE:HB2	45:FB:164:MET:SD	2.40	0.61
44:FC:190:SER:O	44:FC:194:LEU:HG	2.01	0.61
44:FC:203:MET:HE1	44:FC:267:PHE:HD2	1.66	0.61
45:FD:7:ILE:HB	45:FD:135:ILE:HD13	1.82	0.61
45:FD:326:VAL:O	45:FD:330:MET:HG2	2.01	0.61
45:FF:187:LEU:HD11	45:FF:408:PHE:CZ	2.36	0.61
44:FG:200:VAL:HG13	44:FG:268:MET:SD	2.41	0.61
44:FG:229:ARG:HG2	44:FG:229:ARG:HH11	1.64	0.61
44:FG:270:SER:O	44:FG:302:MET:HE3	2.01	0.61
44:FG:276:ILE:HG23	44:FG:280:LYS:CE	2.30	0.61
45:FH:42:LEU:HG	45:FH:45:GLU:OE2	2.01	0.61
45:FH:172:SER:OG	45:FH:205:GLU:HB2	2.01	0.61
44:FK:319:TYR:CD2	44:FK:323:VAL:HG11	2.30	0.61
45:FL:149:THR:O	45:FL:152:ILE:N	2.34	0.61
44:FM:183:GLU:N	44:FM:184:PRO:HD2	2.14	0.61
44:FM:226:ASN:O	44:FM:230:LEU:HD23	2.01	0.61
44:GA:104:ALA:HB2	44:GA:413:MET:SD	2.40	0.61
45:GB:103:LYS:HA	45:GB:107:THR:OG1	2.00	0.61
45:GB:135:ILE:HG13	45:GB:152:ILE:CD1	2.31	0.61
44:GC:273:ALA:HB1	44:GC:274:PRO:HA	1.83	0.61
44:GG:145:THR:HG22	46:GG:501:GTP:PG	2.41	0.61
44:GG:268:MET:HB2	44:GG:379:SER:O	2.01	0.61
44:GG:310:GLY:C	44:GG:311:LYS:HD2	2.20	0.61
44:GK:141:VAL:HG23	44:GK:190:SER:OG	1.99	0.61
45:GL:387:ALA:HA	45:GL:390:ARG:NH1	2.16	0.61
45:GN:48:ASN:HA	45:GN:51:TYR:O	2.01	0.61
45:GN:260:PHE:HB2	45:GN:263:LEU:HD13	1.81	0.61
45:GN:355:ASP:O	45:GN:357:PRO:HD3	2.00	0.61
45:GN:420:SER:O	45:GN:423:GLN:HG3	2.00	0.61
44:HA:106:GLY:O	44:HA:149:LEU:HD22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:20:PHE:O	45:HB:24:ILE:HG12	2.01	0.61
44:HC:311:LYS:HG3	44:HC:342:GLN:HG3	1.83	0.61
45:HF:67:ASP:OD1	45:HF:68:LEU:N	2.33	0.61
44:HG:131:GLY:O	44:HG:133:GLN:NE2	2.31	0.61
44:HG:346:TRP:CZ3	44:HG:347:CYS:HB2	2.35	0.61
45:HH:86:ARG:HD3	45:IH:281:TYR:HD2	1.65	0.61
44:HI:161:TYR:HB3	44:HI:164:LYS:CE	2.31	0.61
45:HJ:60:VAL:HG11	45:HJ:86:ARG:NH2	2.16	0.61
45:HJ:289:LEU:HD13	45:HJ:365:VAL:HG23	1.81	0.61
44:HK:101:ASN:HD22	45:HL:252:LYS:NZ	1.98	0.61
44:HK:273:ALA:HB1	44:HK:274:PRO:HA	1.81	0.61
44:HK:276:ILE:CD1	44:HK:280:LYS:HE2	2.30	0.61
44:HK:305:CYS:O	44:HK:307:PRO:HD3	2.00	0.61
44:HM:70:LEU:HD12	44:HM:145:THR:OG1	2.01	0.61
44:HM:187:SER:HA	44:HM:190:SER:OG	2.00	0.61
45:HN:86:ARG:HD2	45:IN:281:TYR:CB	2.30	0.61
44:IA:261:PRO:HA	45:ID:394:PHE:CD1	2.36	0.61
44:IA:434:GLU:O	44:IA:437:ILE:HG12	2.00	0.61
45:IB:2:ARG:O	45:IB:131:GLN:HB2	2.00	0.61
44:IC:55:GLU:HG3	44:IC:57:GLY:H	1.65	0.61
44:IC:286:LEU:N	44:IC:290:GLU:OE2	2.34	0.61
44:IC:291:ILE:HG13	44:IC:292:THR:N	2.16	0.61
45:IF:150:LEU:O	45:IF:153:SER:OG	2.13	0.61
45:IF:187:LEU:HD11	45:IF:408:PHE:CE1	2.36	0.61
45:IJ:274:THR:OG1	45:IJ:278:SER:O	2.17	0.61
44:IK:284:GLU:OE1	44:IK:284:GLU:N	2.33	0.61
44:IK:328:VAL:HG11	44:IK:353:VAL:HG21	1.83	0.61
45:IN:86:ARG:CZ	44:JK:283:HIS:HB2	2.31	0.61
45:IN:403:MET:HE3	45:IN:403:MET:HA	1.82	0.61
44:JA:108:TYR:HE2	44:JA:413:MET:HG3	1.64	0.61
45:JB:139:LEU:HD22	45:JB:188:SER:CB	2.29	0.61
45:JB:330:MET:HA	45:JB:333:VAL:CG1	2.30	0.61
44:JC:265:ILE:O	44:JC:265:ILE:HG23	1.99	0.61
44:JE:287:SER:HA	44:JE:373:ARG:HH12	1.65	0.61
44:JG:137:VAL:HG12	44:JG:167:LEU:O	2.01	0.61
45:JH:117:LEU:O	45:JH:120:VAL:HG12	2.01	0.61
44:JI:205:ASP:OD1	44:JI:303:ALA:HA	2.00	0.61
44:JK:68:LEU:HD11	44:JK:118:CYS:SG	2.40	0.61
44:JK:113:GLU:OE1	44:JK:113:GLU:N	2.33	0.61
45:JN:420:SER:O	45:JN:423:GLN:HG3	2.01	0.61
44:KA:66:VAL:HG21	44:KA:122:ILE:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:36:TYR:CE2	45:KB:44:LEU:HD11	2.36	0.61
45:KD:7:ILE:HG22	45:KD:64:ILE:HB	1.81	0.61
44:KE:233:GLN:OE1	44:KE:233:GLN:HA	2.00	0.61
44:KG:224:TYR:CE2	45:KH:246:LEU:HD11	2.36	0.61
44:KG:224:TYR:HE2	45:KH:246:LEU:HD11	1.64	0.61
45:KL:117:LEU:HD21	45:KL:154:LYS:NZ	2.16	0.61
45:KL:131:GLN:NE2	45:KL:250:LEU:HB2	2.16	0.61
44:KM:287:SER:O	44:KM:291:ILE:HG23	1.99	0.61
45:LD:380:ARG:O	45:LD:383:GLU:HG3	2.01	0.61
44:LG:172:TYR:HB3	44:LG:173:PRO:CD	2.30	0.61
45:LH:330:MET:HE3	45:LH:349:ILE:HD13	1.83	0.61
44:LI:212:ILE:HD11	44:LI:275:ILE:CG2	2.31	0.61
44:LI:324:VAL:CG1	44:LI:325:PRO:HD2	2.30	0.61
44:LI:352:LYS:HD3	44:LI:353:VAL:N	2.15	0.61
45:LL:186:THR:HG21	45:LL:385:PHE:CE1	2.36	0.61
44:LM:289:ALA:O	44:LM:292:THR:HG22	2.00	0.61
45:LN:117:LEU:HG	45:LN:121:ARG:HH21	1.65	0.61
44:MC:276:ILE:CD1	44:MC:281:ALA:HA	2.31	0.61
44:MC:402:ARG:HB3	44:MC:405:VAL:CG2	2.29	0.61
44:MM:26:LEU:HD23	44:MM:363:VAL:HA	1.82	0.61
44:MM:88:HIS:HB3	44:MM:91:GLN:CB	2.31	0.61
44:MM:174:SER:CB	44:MM:177:VAL:HB	2.31	0.61
45:MN:103:LYS:HA	45:MN:107:THR:OG1	2.01	0.61
44:NC:174:SER:HB3	44:NC:207:GLU:CG	2.26	0.61
44:NE:10:GLY:O	44:NE:14:ILE:N	2.30	0.61
44:NG:70:LEU:HD13	44:NG:110:ILE:CD1	2.30	0.61
44:NG:188:ILE:HG13	44:NG:425:LEU:CD1	2.31	0.61
44:NG:306:ASP:HB3	44:NG:309:HIS:HB2	1.82	0.61
44:NI:136:LEU:HD23	44:NI:167:LEU:HB2	1.82	0.61
44:NI:223:THR:O	44:NI:227:LEU:HD23	1.99	0.61
45:NJ:86:ARG:HB2	45:NJ:89:ASN:ND2	2.15	0.61
44:NK:6:SER:OG	44:NK:65:ALA:HA	2.00	0.61
45:NL:3:GLU:OE1	45:NL:3:GLU:N	2.34	0.61
44:NM:202:VAL:HG22	44:NM:268:MET:HE3	1.81	0.61
45:NN:86:ARG:CZ	45:ON:278:SER:HA	2.31	0.61
45:NN:107:THR:HG23	45:NN:108:GLU:N	2.16	0.61
44:OA:254:GLU:OE2	45:OD:97:ALA:HB3	2.00	0.61
45:OF:113:ILE:HG13	45:OF:117:LEU:HD23	1.81	0.61
45:OF:284:LEU:HD11	45:OF:363:MET:HB2	1.83	0.61
44:OI:217:LEU:HD21	44:OI:275:ILE:CG2	2.25	0.61
44:OI:271:SER:CB	44:OI:301:MET:HA	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:298:PRO:HA	44:OI:301:MET:SD	2.41	0.61
44:OK:23:LEU:CD1	44:OK:361:THR:HG23	2.30	0.61
45:OL:97:ALA:O	45:OL:103:LYS:HE3	2.00	0.61
45:OL:172:SER:HB3	45:OL:203:ASP:OD1	1.99	0.61
45:OL:257:LEU:HD12	45:OL:312:THR:HG21	1.83	0.61
44:OM:425:LEU:O	44:OM:428:LEU:N	2.32	0.61
44:PA:141:VAL:HG23	44:PA:190:SER:OG	1.99	0.61
44:PC:147:SER:HB2	44:PC:190:SER:HB3	1.82	0.61
45:PF:144:GLY:O	45:PF:148:GLY:N	2.34	0.61
44:PG:261:PRO:HG3	45:PJ:394:PHE:CZ	2.34	0.61
44:PK:115:VAL:HG21	44:PK:152:LEU:HD23	1.82	0.61
45:PL:182:PRO:HB3	45:PL:385:PHE:HA	1.81	0.61
45:PN:310:TYR:HA	45:PN:371:SER:OG	2.00	0.61
45:QB:70:PRO:HB2	45:QB:74:ASP:OD2	2.00	0.61
45:QD:167:PHE:HE2	45:QD:233:MET:HG2	1.65	0.61
45:QD:375:GLN:HE22	45:QD:379:LYS:HD2	1.64	0.61
45:QF:217:LEU:HD12	45:QF:217:LEU:O	2.01	0.61
45:QF:293:MET:CB	45:QF:365:VAL:HG11	2.31	0.61
44:QG:311:LYS:HE2	44:QG:342:GLN:NE2	2.15	0.61
44:QI:137:VAL:HG12	44:QI:167:LEU:O	2.00	0.61
45:QJ:80:PRO:O	45:QJ:81:PHE:HB2	1.99	0.61
44:QM:34:GLY:O	44:QM:60:LYS:HA	2.00	0.61
44:QM:143:GLY:HA3	46:QM:501:GTP:PB	2.41	0.61
45:RB:294:PHE:CD2	45:RB:333:VAL:HG11	2.35	0.61
45:RD:323:THR:O	45:RD:326:VAL:N	2.33	0.61
44:RE:136:LEU:HA	44:RE:167:LEU:O	1.99	0.61
44:RE:333:ALA:O	44:RE:337:THR:N	2.33	0.61
45:RF:73:MET:O	45:RF:76:VAL:HG12	2.00	0.61
45:RF:223:GLY:HA2	45:RF:226:ASN:HB2	1.81	0.61
44:RG:55:GLU:HG3	44:RG:57:GLY:H	1.65	0.61
44:RG:209:ILE:CA	44:RG:212:ILE:HG22	2.30	0.61
44:RG:274:PRO:HD3	44:RG:374:ALA:HB1	1.81	0.61
45:RH:166:THR:OG1	45:RH:199:CYS:HA	1.99	0.61
44:RI:14:ILE:HD11	44:RI:69:ASP:HB2	1.83	0.61
44:RI:209:ILE:HG12	44:RI:302:MET:CE	2.30	0.61
44:RI:437:ILE:O	45:RJ:391:ARG:NH2	2.32	0.61
44:RK:262:TYR:OH	45:RL:391:ARG:HB3	2.00	0.61
44:RM:307:PRO:HB2	44:RM:312:TYR:OH	2.01	0.61
45:RN:4:ILE:O	45:RN:62:ARG:HD3	2.00	0.61
44:SA:71:GLU:OE1	44:SA:73:THR:N	2.34	0.61
44:SA:132:LEU:HD23	44:SA:134:GLY:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:326:LYS:HB2	45:SB:212:PHE:CZ	2.35	0.61
44:SA:326:LYS:CE	45:SB:219:THR:HA	2.24	0.61
45:SB:207:LEU:HD21	45:SB:300:MET:HE1	1.83	0.61
44:SE:105:ARG:HD3	44:SE:411:GLU:OE1	2.00	0.61
44:SE:143:GLY:HA3	46:SE:501:GTP:O3B	2.00	0.61
45:SF:173:PRO:CG	45:SF:380:ARG:HD3	2.30	0.61
44:SG:107:HIS:ND1	44:SG:152:LEU:HD21	2.15	0.61
44:SI:408:TYR:HB3	44:SI:413:MET:HE1	1.81	0.61
45:SJ:210:ILE:HG23	45:SJ:214:THR:OG1	2.01	0.61
45:SJ:289:LEU:CD1	45:SJ:363:MET:HE1	2.18	0.61
45:SJ:357:PRO:HB2	45:SJ:361:LEU:O	2.01	0.61
44:SK:68:LEU:HD21	44:SK:118:CYS:HB2	1.81	0.61
44:SK:298:PRO:HA	44:SK:301:MET:CE	2.30	0.61
45:SL:304:ASP:OD1	45:SL:306:ARG:HG2	2.01	0.61
44:SM:141:VAL:HG21	44:SM:172:TYR:CE1	2.36	0.61
44:TE:156:ARG:HB3	44:TE:160:ASP:OD2	2.01	0.61
44:TE:312:TYR:HB2	44:TE:343:PHE:HA	1.83	0.61
45:TF:46:ARG:HB3	45:TF:49:VAL:CG2	2.30	0.61
44:TK:11:GLN:HB2	46:TK:501:GTP:PB	2.40	0.61
44:TK:88:HIS:HE1	44:TK:90:GLU:HG2	1.66	0.61
44:TK:194:LEU:HD12	44:TK:195:LEU:N	2.16	0.61
44:TK:301:MET:HG3	44:TK:307:PRO:HG3	1.82	0.61
45:TN:284:LEU:CD1	45:TN:362:LYS:HE2	2.30	0.61
45:UB:3:GLU:O	45:UB:131:GLN:HB3	2.01	0.61
45:UB:214:THR:HG22	45:UB:297:LYS:HE3	1.83	0.61
44:UC:258:ASN:HB3	45:UD:179:VAL:HG22	1.81	0.61
44:UC:417:GLU:O	44:UC:420:GLU:HG2	2.00	0.61
45:UD:36:TYR:CE1	45:UD:44:LEU:HD11	2.34	0.61
45:UD:334:GLN:HB2	45:UD:349:ILE:CD1	2.28	0.61
44:UG:103:PHE:HB3	44:UG:408:TYR:HE1	1.65	0.61
44:UG:325:PRO:HG3	44:UG:355:ILE:HD13	1.81	0.61
45:UJ:20:PHE:CE1	45:UJ:24:ILE:HD11	2.35	0.61
45:UJ:285:THR:HG22	45:UJ:288:GLU:CG	2.30	0.61
44:UK:89:PRO:CB	44:VI:280:LYS:HZ2	2.14	0.61
44:UM:5:ILE:HA	44:UM:64:ARG:CB	2.30	0.61
44:UM:252:ILE:HA	44:UM:255:PHE:CZ	2.35	0.61
45:UN:205:GLU:HA	45:UN:208:TYR:CD2	2.35	0.61
45:VB:377:MET:SD	45:VB:380:ARG:NH2	2.74	0.61
44:VC:89:PRO:HG3	44:WC:280:LYS:CD	2.31	0.61
44:VC:174:SER:OG	44:VC:207:GLU:HB2	2.00	0.61
44:VE:205:ASP:OD1	44:VE:303:ALA:HA	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:178:THR:HG22	45:VF:180:VAL:H	1.65	0.61
45:VF:257:LEU:HD11	45:VF:314:SER:CB	2.30	0.61
45:VF:377:MET:O	45:VF:381:VAL:HG23	2.00	0.61
44:VG:10:GLY:O	44:VG:14:ILE:HD12	2.00	0.61
44:VG:329:ASN:HB3	45:VJ:175:VAL:CG1	2.30	0.61
45:VH:377:MET:O	45:VH:381:VAL:HG12	2.01	0.61
45:VJ:124:ALA:O	45:VJ:130:LEU:HD21	2.01	0.61
44:VK:185:TYR:O	44:VK:189:LEU:HG	1.99	0.61
45:VL:109:GLY:HA2	45:VL:147:MET:CE	2.30	0.61
44:VM:88:HIS:HE1	44:VM:90:GLU:HG2	1.65	0.61
44:VM:219:ILE:HB	44:VM:222:PRO:HG3	1.83	0.61
44:WE:101:ASN:CB	44:WE:182:VAL:HG11	2.21	0.61
44:WE:105:ARG:O	44:WE:110:ILE:HG12	2.00	0.61
44:WG:2:ARG:NE	44:WG:242:LEU:O	2.33	0.61
44:WG:268:MET:HB2	44:WG:379:SER:C	2.20	0.61
45:WH:159:TYR:HB3	45:WH:162:ARG:HG3	1.83	0.61
44:WI:287:SER:O	44:WI:290:GLU:HG2	2.00	0.61
45:WJ:199:CYS:O	45:WJ:265:PHE:HA	2.01	0.61
44:WM:102:ASN:OD1	44:WM:105:ARG:N	2.34	0.61
45:WN:396:HIS:HA	45:WN:399:THR:OG1	2.00	0.61
5:0D:38:ILE:HD11	44:DC:84:ARG:CD	2.31	0.61
8:1G:86:LEU:HG	45:JB:227:HIS:CE1	2.36	0.61
20:1J:65:ILE:HG13	44:HC:84:ARG:NH2	2.15	0.61
26:1R:407:PHE:HB3	44:DC:58:ALA:HB3	1.81	0.61
26:1R:458:ILE:HD11	45:FD:276:ARG:HG3	1.82	0.61
16:1X:78:ASN:ND2	45:MF:280:GLN:HG3	2.16	0.61
32:2I:88:PHE:CZ	44:FE:114:ILE:HD13	2.36	0.61
10:2N:258:THR:HG21	45:LB:276:ARG:HH12	1.64	0.61
24:2O:431:ILE:HD13	44:VA:279:GLU:HA	1.81	0.61
26:3R:244:ARG:HH12	44:BK:55:GLU:HG2	1.65	0.61
13:3T:134:SER:HB3	44:MK:132:LEU:CD2	2.30	0.61
16:4X:3:ARG:NE	45:LL:15:GLN:HE22	1.99	0.61
37:5D:46:ILE:HD13	45:KN:391:ARG:NH2	2.15	0.61
37:5D:62:PRO:HB2	45:KN:416:ASN:OD1	2.00	0.61
38:5G:9:TYR:CD1	38:5G:10:PRO:HD3	2.36	0.61
38:5H:113:LEU:HD21	44:NM:84:ARG:NH2	2.15	0.61
41:6G:181:GLY:CA	44:VE:338:LYS:HB3	2.31	0.61
41:6G:301:ARG:HB2	41:6G:303:MET:SD	2.40	0.61
35:6R:288:LYS:NZ	44:CM:44:GLY:N	2.48	0.61
35:6R:446:PHE:CE1	35:6R:487:GLU:HG3	2.30	0.61
35:7R:350:PHE:O	35:7R:371:ILE:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:8R:214:UNK:O	43:8R:218:UNK:HB2	2.01	0.61
44:AC:70:LEU:HD12	44:AC:145:THR:OG1	2.01	0.61
44:AE:64:ARG:NH1	44:AE:129:CYS:SG	2.74	0.61
44:AK:1:MET:CE	45:AN:94:GLN:HB3	2.29	0.61
44:BE:36:MET:CE	44:BE:37:PRO:HD2	2.29	0.61
44:BE:100:ALA:O	45:BF:255:VAL:HG21	2.00	0.61
44:BE:141:VAL:HG12	44:BE:172:TYR:HA	1.82	0.61
45:BF:341:PHE:HB3	45:BF:348:ASN:HD21	1.66	0.61
45:BJ:385:PHE:CE2	45:BJ:412:GLU:HB2	2.35	0.61
44:BK:141:VAL:HG22	44:BK:187:SER:HA	1.83	0.61
44:BK:212:ILE:HD13	44:BK:215:ARG:HH22	1.65	0.61
44:BK:406:HIS:HA	44:BK:409:VAL:HG22	1.82	0.61
45:BL:387:ALA:HA	45:BL:390:ARG:HG2	1.83	0.61
44:BM:87:PHE:CB	44:BM:92:LEU:HD11	2.29	0.61
44:BM:90:GLU:HB3	44:CM:280:LYS:NZ	2.16	0.61
44:BM:183:GLU:N	44:BM:184:PRO:HD2	2.14	0.61
44:CA:70:LEU:CD2	44:CA:114:ILE:HG13	2.31	0.61
44:CA:420:GLU:HA	44:CA:423:GLU:CD	2.21	0.61
45:CB:248:SER:HB2	45:CB:252:LYS:HG3	1.82	0.61
45:CD:258:ILE:HD11	45:CD:266:PHE:CZ	2.35	0.61
44:CE:8:HIS:CD2	44:CE:138:PHE:HB2	2.31	0.61
44:CE:66:VAL:HG21	44:CE:122:ILE:HD11	1.80	0.61
44:CE:260:VAL:O	44:CE:260:VAL:HG23	2.00	0.61
45:CF:68:LEU:HD12	45:CF:143:THR:OG1	2.01	0.61
45:CF:255:VAL:HA	44:CG:407:TRP:CZ3	2.36	0.61
45:CH:104:GLY:O	45:CH:147:MET:N	2.33	0.61
45:CH:324:LYS:HD2	44:CI:210:TYR:CD1	2.35	0.61
45:CJ:66:MET:SD	45:CJ:147:MET:HE1	2.41	0.61
45:CL:325:GLU:CG	45:CL:329:GLN:HE22	2.13	0.61
44:CM:174:SER:HB2	44:CM:177:VAL:O	2.00	0.61
44:CM:287:SER:O	44:CM:291:ILE:HG23	2.00	0.61
44:CM:326:LYS:HB2	45:CN:212:PHE:HZ	1.66	0.61
44:DA:68:LEU:CD2	44:DA:153:LEU:HD11	2.27	0.61
45:DD:350:LYS:CD	44:DE:180:ALA:HA	2.30	0.61
44:DG:117:LEU:O	44:DG:121:ARG:HG2	2.00	0.61
45:DH:11:GLN:N	48:DH:501:GDP:O1B	2.30	0.61
45:DH:322:SER:HB3	45:DH:323:THR:CA	2.31	0.61
44:EA:268:MET:HG2	44:EA:380:ASN:CB	2.30	0.61
44:EA:315:CYS:HA	44:EA:379:SER:HA	1.83	0.61
44:EC:70:LEU:CD2	44:EC:114:ILE:HG21	2.31	0.61
45:ED:51:TYR:HE1	45:ED:61:PRO:HG3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:254:ALA:HA	45:ED:258:ILE:CD1	2.30	0.61
45:ED:312:THR:O	45:ED:370:ASN:N	2.33	0.61
45:ED:404:ASP:OD1	45:ED:406:MET:N	2.32	0.61
44:EE:287:SER:C	44:EE:291:ILE:HG23	2.20	0.61
45:EF:28:HIS:O	45:EF:43:GLN:NE2	2.31	0.61
44:EG:13:GLY:HA2	44:EG:16:VAL:HG22	1.83	0.61
45:EH:374:ILE:HD11	45:EH:422:TYR:CZ	2.35	0.61
44:EI:250:VAL:HG21	44:EI:318:MET:CE	2.31	0.61
45:EJ:193:VAL:HG23	45:EJ:264:HIS:CE1	2.35	0.61
45:EJ:376:GLU:CG	45:EJ:380:ARG:HH21	2.13	0.61
44:EK:32:PRO:HA	44:EK:83:TYR:CE1	2.36	0.61
45:EL:68:LEU:HD21	45:EL:147:MET:CE	2.31	0.61
45:EL:172:SER:OG	45:EL:205:GLU:HB2	2.00	0.61
44:EM:312:TYR:HA	44:EM:381:SER:HB2	1.81	0.61
45:EN:10:GLY:CA	45:EN:144:GLY:HA3	2.31	0.61
44:FA:259:LEU:HB3	44:FA:268:MET:HE3	1.82	0.61
45:FD:164:MET:CE	45:FD:164:MET:HA	2.31	0.61
45:FD:263:LEU:HG	45:FD:422:TYR:CE1	2.35	0.61
44:FE:138:PHE:CD2	44:FE:169:PHE:HB2	2.35	0.61
44:FE:237:SER:HA	44:FE:320:ARG:NH1	2.13	0.61
44:FE:318:MET:O	44:FE:376:CYS:N	2.29	0.61
45:FF:11:GLN:HA	45:FF:14:ASN:HD22	1.64	0.61
44:FG:274:PRO:HB3	44:FG:291:ILE:HD11	1.82	0.61
45:FJ:1:MET:O	45:FJ:2:ARG:HG2	2.00	0.61
44:FK:68:LEU:HD11	44:FK:118:CYS:CB	2.23	0.61
45:FL:405:GLU:OE1	45:FL:405:GLU:N	2.25	0.61
45:FN:2:ARG:N	45:FN:129:CYS:SG	2.72	0.61
45:FN:248:SER:OG	45:FN:252:LYS:HD2	2.01	0.61
45:FN:329:GLN:HA	45:FN:332:ASN:HB3	1.81	0.61
44:GA:276:ILE:HD12	44:GA:284:GLU:OE2	2.00	0.61
45:GB:253:LEU:O	45:GB:257:LEU:HD13	2.00	0.61
44:GC:307:PRO:HB3	44:GC:312:TYR:CE1	2.36	0.61
44:GG:22:GLU:OE1	44:GG:83:TYR:OH	2.19	0.61
44:GG:71:GLU:CD	44:GG:73:THR:HG23	2.21	0.61
45:GH:58:ARG:NH2	45:HH:280:GLN:HB3	2.15	0.61
44:GK:221:ARG:HH12	45:GL:286:VAL:HG21	1.66	0.61
45:GN:32:PRO:HA	45:GN:81:PHE:CD2	2.36	0.61
44:HA:71:GLU:OE1	44:HA:73:THR:N	2.24	0.61
44:HA:265:ILE:HG22	44:HA:380:ASN:HD21	1.65	0.61
44:HA:386:GLU:O	44:HA:390:ARG:HG2	2.01	0.61
45:HB:316:LEU:O	45:HB:365:VAL:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:398:TYR:HB3	45:HB:403:MET:SD	2.40	0.61
44:HC:88:HIS:H	44:HC:91:GLN:NE2	1.98	0.61
45:HD:173:PRO:CG	45:HD:380:ARG:HB2	2.30	0.61
44:HE:346:TRP:CZ3	44:HE:347:CYS:HB2	2.36	0.61
45:HF:36:TYR:CZ	45:HF:44:LEU:HG	2.35	0.61
45:HH:269:GLY:CA	45:HH:300:MET:HG2	2.22	0.61
45:HL:45:GLU:HG3	45:HL:46:ARG:CD	2.31	0.61
45:HN:45:GLU:HB3	45:HN:46:ARG:NH2	2.15	0.61
44:IA:8:HIS:HB2	44:IA:67:PHE:CD1	2.35	0.61
45:IF:310:TYR:HA	45:IF:371:SER:CB	2.29	0.61
44:IG:34:GLY:HA3	44:IG:60:LYS:HE3	1.83	0.61
45:IH:68:LEU:HD21	45:IH:147:MET:HE3	1.82	0.61
45:IH:376:GLU:HG3	45:IH:380:ARG:HH21	1.66	0.61
45:IJ:309:ARG:H	45:IJ:372:THR:HG1	1.49	0.61
45:IL:88:ASP:CB	45:IL:151:LEU:HD22	2.29	0.61
45:IL:130:LEU:HD23	45:IL:162:ARG:HG3	1.83	0.61
45:IN:163:ILE:HD12	45:IN:250:LEU:HB2	1.82	0.61
45:JB:200:MET:HG2	45:JB:266:PHE:CB	2.22	0.61
44:JC:261:PRO:HD3	45:JF:394:PHE:HE2	1.66	0.61
44:JG:261:PRO:HA	45:JJ:394:PHE:CE1	2.35	0.61
45:JH:36:TYR:CE2	45:JH:44:LEU:HD11	2.34	0.61
44:JI:135:PHE:CB	44:JI:166:LYS:HG2	2.28	0.61
44:JK:30:ILE:HG13	44:JK:36:MET:CE	2.30	0.61
44:JM:13:GLY:O	44:JM:16:VAL:HG22	2.00	0.61
45:JN:263:LEU:HD22	45:JN:422:TYR:CD1	2.35	0.61
45:KB:36:TYR:CE2	45:KB:44:LEU:HD21	2.35	0.61
44:KC:311:LYS:HD3	44:KC:342:GLN:HG3	1.81	0.61
44:KC:328:VAL:O	44:KC:332:ILE:HG12	2.00	0.61
45:KD:310:TYR:CD1	45:KD:371:SER:HB2	2.36	0.61
44:KE:98:ASP:HB3	45:KF:249:ASP:OD2	2.00	0.61
44:KE:194:LEU:O	44:KE:198:THR:HG22	2.00	0.61
45:KF:67:ASP:OD1	45:KF:143:THR:HG21	2.00	0.61
45:KF:151:LEU:O	45:KF:155:VAL:HG13	2.00	0.61
44:KG:141:VAL:CG1	44:KG:187:SER:HA	2.31	0.61
45:KH:8:GLN:HE21	45:KH:65:LEU:CD2	2.12	0.61
45:KN:10:GLY:HA2	45:KN:143:THR:CG2	2.30	0.61
45:KN:72:THR:O	45:KN:75:SER:OG	2.05	0.61
44:LA:11:GLN:HG3	44:LA:74:VAL:HG11	1.81	0.61
44:LA:87:PHE:HB3	44:LA:92:LEU:HD11	1.82	0.61
45:LB:187:LEU:HD11	45:LB:408:PHE:HE1	1.63	0.61
45:LB:342:VAL:HG21	45:LB:344:TRP:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:415:MET:HE3	45:LB:419:VAL:HG21	1.81	0.61
44:LC:224:TYR:CE1	45:LD:323:THR:HG21	2.35	0.61
45:LD:118:ASP:OD1	45:LD:121:ARG:NH2	2.34	0.61
45:LD:355:ASP:O	45:LD:356:ILE:HD13	2.01	0.61
44:LE:261:PRO:HG2	44:LE:313:MET:SD	2.40	0.61
45:LH:19:LYS:HD2	45:LH:22:GLU:OE2	2.00	0.61
44:LI:109:THR:HG23	44:LI:110:ILE:N	2.15	0.61
45:LJ:105:HIS:ND1	45:LJ:105:HIS:O	2.33	0.61
45:LN:7:ILE:HD11	45:LN:135:ILE:HD12	1.82	0.61
45:LN:99:ASN:HA	45:LN:142:GLY:H	1.65	0.61
45:LN:167:PHE:CE2	45:LN:233:MET:HG2	2.35	0.61
45:MB:330:MET:SD	45:MB:349:ILE:HD13	2.41	0.61
45:MF:69:GLU:OE1	45:MF:71:GLY:N	2.34	0.61
44:MI:175:PRO:HB3	44:MI:390:ARG:NH1	2.15	0.61
44:MI:221:ARG:NE	45:MJ:322:SER:HG	1.99	0.61
45:MJ:329:GLN:O	45:MJ:333:VAL:HG23	2.00	0.61
45:ML:73:MET:O	45:ML:76:VAL:HG12	1.99	0.61
44:MM:384:ILE:O	44:MM:387:VAL:HG22	1.99	0.61
45:MN:49:VAL:CG2	45:MN:241:ARG:HG2	2.26	0.61
44:NA:145:THR:OG1	46:NA:501:GTP:O2G	2.17	0.61
44:NA:157:LEU:HB3	44:NA:166:LYS:HE2	1.81	0.61
44:NA:177:VAL:CG1	45:NB:331:LEU:HD22	2.30	0.61
45:NB:330:MET:CA	45:NB:333:VAL:HG12	2.31	0.61
44:NG:105:ARG:HG2	44:NG:110:ILE:CD1	2.31	0.61
44:NG:345:ASP:OD1	44:NG:346:TRP:N	2.32	0.61
44:NK:371:VAL:HG22	44:NK:373:ARG:H	1.65	0.61
44:OA:154:LEU:HD23	44:OA:166:LYS:NZ	2.14	0.61
44:OC:242:LEU:HD11	44:OC:252:ILE:HG13	1.83	0.61
45:OH:204:ASN:OD1	48:OH:501:GDP:O2'	2.18	0.61
44:OI:22:GLU:HG2	44:OI:83:TYR:OH	1.99	0.61
44:OK:276:ILE:CG2	44:OK:280:LYS:HB2	2.30	0.61
45:OL:242:PHE:HD2	45:OL:356:ILE:HB	1.65	0.61
45:ON:22:GLU:OE2	45:ON:81:PHE:HB2	2.01	0.61
44:PE:21:TRP:CZ2	44:PE:65:ALA:HB2	2.36	0.61
45:PF:286:VAL:CB	45:PF:325:GLU:HG2	2.31	0.61
44:PG:340:THR:HG23	44:PG:341:ILE:HG12	1.83	0.61
44:PI:386:GLU:O	44:PI:390:ARG:HG2	2.00	0.61
44:PK:67:PHE:HB2	44:PK:92:LEU:CD1	2.30	0.61
44:PK:99:ALA:O	44:PK:105:ARG:HG3	2.00	0.61
44:PM:224:TYR:OH	45:PN:246:LEU:HD11	2.00	0.61
45:PN:4:ILE:HD13	45:PN:250:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:165:GLU:HA	45:PN:198:GLU:O	2.01	0.61
45:QB:163:ILE:CG2	45:QB:251:ARG:HG2	2.26	0.61
45:QB:314:SER:N	45:QB:368:VAL:O	2.33	0.61
44:QC:344:VAL:HG21	44:QC:346:TRP:CZ2	2.36	0.61
45:QF:67:ASP:OD1	45:QF:68:LEU:N	2.28	0.61
45:QF:254:ALA:HB1	44:QG:407:TRP:HH2	1.65	0.61
45:QH:99:ASN:HB3	45:QH:180:VAL:HG11	1.80	0.61
45:QH:135:ILE:HG21	45:QH:152:ILE:HD11	1.82	0.61
44:QK:414:GLU:HB2	44:QK:417:GLU:HG2	1.81	0.61
45:QL:315:ALA:N	45:QL:350:LYS:O	2.32	0.61
45:QN:211:CYS:HA	45:QN:215:LEU:HB2	1.83	0.61
45:RB:286:VAL:N	45:RB:287:PRO:HD2	2.16	0.61
44:RC:105:ARG:C	44:RC:110:ILE:HG12	2.21	0.61
44:RE:89:PRO:HD3	44:SE:280:LYS:HE2	1.81	0.61
44:RE:328:VAL:O	44:RE:332:ILE:HG12	2.00	0.61
45:RF:40:SER:N	45:RF:43:GLN:OE1	2.32	0.61
45:RH:68:LEU:HD13	45:RH:147:MET:SD	2.41	0.61
45:RH:69:GLU:CG	45:RH:70:PRO:HD2	2.30	0.61
45:RH:113:ILE:HA	45:RH:116:VAL:CG1	2.28	0.61
44:RK:319:TYR:CZ	44:RK:328:VAL:HG22	2.36	0.61
44:RM:405:VAL:O	44:RM:408:TYR:N	2.32	0.61
44:RM:407:TRP:O	44:RM:411:GLU:HG2	2.00	0.61
45:RN:114:ASP:O	45:RN:118:ASP:HB2	2.00	0.61
44:SA:171:ILE:HG23	44:SA:204:LEU:O	2.01	0.61
44:SE:137:VAL:HG12	44:SE:167:LEU:O	2.00	0.61
45:SF:49:VAL:HG21	45:SF:241:ARG:CG	2.31	0.61
44:SI:389:SER:HA	44:SI:429:GLU:OE2	2.01	0.61
44:SK:9:VAL:HG21	44:SK:149:LEU:HB3	1.82	0.61
45:SL:113:ILE:CD1	45:SL:151:LEU:HD12	2.28	0.61
45:SL:253:LEU:O	45:SL:257:LEU:HD13	1.99	0.61
44:SM:9:VAL:HG21	44:SM:149:LEU:HB3	1.83	0.61
45:SN:211:CYS:SG	45:SN:217:LEU:HD21	2.40	0.61
44:TA:89:PRO:HG3	44:UA:280:LYS:CD	2.28	0.61
44:TA:89:PRO:CG	44:UA:280:LYS:HD2	2.30	0.61
44:TA:217:LEU:HD11	44:TA:368:LEU:HD22	1.82	0.61
45:TB:232:ALA:CB	45:TB:270:PHE:HB2	2.28	0.61
45:TB:314:SER:HB3	45:TB:368:VAL:CG2	2.30	0.61
44:TC:172:TYR:HB3	44:TC:173:PRO:HD2	1.83	0.61
45:TD:303:ALA:HB2	45:TD:377:MET:HE3	1.83	0.61
45:TH:318:ARG:HD3	45:TH:358:PRO:CG	2.30	0.61
44:TI:175:PRO:HB2	44:TI:176:GLN:OE1	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:311:LYS:HD2	44:TI:342:GLN:NE2	2.16	0.61
45:TJ:130:LEU:HB3	45:TJ:162:ARG:NH2	2.15	0.61
45:TJ:245:GLN:NE2	45:TJ:353:ILE:HB	2.15	0.61
45:TL:255:VAL:HA	44:TM:407:TRP:HZ3	1.65	0.61
45:TL:270:PHE:HE2	45:TL:273:LEU:HD21	1.65	0.61
45:TL:316:LEU:HA	45:TL:352:SER:CB	2.20	0.61
44:TM:155:GLU:HG2	44:TM:197:HIS:CD2	2.36	0.61
45:UB:133:PHE:CD2	45:UB:155:VAL:HG11	2.35	0.61
45:UD:101:TRP:CZ3	45:UD:187:LEU:HD22	2.35	0.61
44:UE:260:VAL:HG23	44:UE:260:VAL:O	1.99	0.61
44:UI:146:GLY:N	46:UI:501:GTP:O1B	2.33	0.61
45:UL:75:SER:O	45:UL:78:ALA:N	2.33	0.61
45:UN:103:LYS:HB2	45:UN:401:GLU:OE2	2.01	0.61
45:UN:113:ILE:CD1	45:UN:150:LEU:HD22	2.30	0.61
44:VA:229:ARG:NH1	44:VA:363:VAL:HG21	2.15	0.61
45:VB:229:VAL:HG12	45:VB:233:MET:CE	2.31	0.61
45:VD:22:GLU:HG2	45:VD:81:PHE:CG	2.35	0.61
45:VF:101:TRP:CE3	45:VF:187:LEU:HB3	2.35	0.61
45:VF:140:GLY:O	45:VF:184:ASN:ND2	2.33	0.61
44:VG:188:ILE:HD12	44:VG:425:LEU:CD1	2.30	0.61
44:VG:363:VAL:HG23	44:VG:364:PRO:HD2	1.81	0.61
44:VI:6:SER:O	44:VI:7:ILE:HD13	2.01	0.61
45:VJ:69:GLU:OE1	45:VJ:71:GLY:N	2.34	0.61
45:VL:135:ILE:O	45:VL:166:THR:HA	2.01	0.61
44:VM:35:GLN:OE1	44:VM:35:GLN:N	2.27	0.61
44:WA:21:TRP:CZ2	44:WA:65:ALA:HB2	2.35	0.61
44:WC:21:TRP:CH2	44:WC:63:PRO:HB3	2.34	0.61
44:WC:51:THR:OG1	44:WC:243:ARG:HB3	2.01	0.61
44:WC:69:ASP:HB3	44:WC:75:ILE:HG12	1.83	0.61
44:WE:10:GLY:HA2	44:WE:145:THR:CG2	2.30	0.61
44:WE:73:THR:OG1	45:WF:2:ARG:NH2	2.34	0.61
44:WE:352:LYS:HA	45:WH:177:ASP:O	2.00	0.61
45:WF:25:SER:CA	45:WF:30:ILE:HB	2.30	0.61
45:WF:124:ALA:HB1	45:WF:130:LEU:HD22	1.82	0.61
45:WF:178:THR:HG22	45:WF:181:GLU:CG	2.29	0.61
44:WG:72:PRO:HG3	44:WG:95:GLY:O	2.00	0.61
44:WI:317:MET:HE2	44:WI:375:VAL:HG21	1.83	0.61
2:0A:136:ASN:ND2	45:AB:245:GLN:OE1	2.21	0.61
5:1D:81:ARG:CZ	45:EF:357:PRO:HG2	2.29	0.61
5:1D:187:PHE:HB2	45:FF:322:SER:OG	1.99	0.61
8:1G:147:HIS:CG	44:KA:282:TYR:HH	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1V:142:ILE:N	44:LK:415:GLU:OE1	2.33	0.61
27:1W:192:PRO:HB3	44:LA:246:GLY:O	1.99	0.61
32:2I:138:VAL:HA	45:GD:337:ASN:ND2	2.06	0.61
26:2R:291:GLY:O	45:DH:216:LYS:HE2	2.00	0.61
15:2V:51:LEU:HD21	44:LE:120:ASP:OD2	2.00	0.61
16:2X:30:GLU:HA	45:ML:218:THR:OG1	2.01	0.61
2:3A:50:PRO:HB2	35:6R:70:ARG:HG2	1.83	0.61
35:4R:38:HIS:NE2	45:LF:91:VAL:HA	2.14	0.61
37:5D:58:TYR:CE1	45:KN:179:VAL:HG22	2.36	0.61
37:5D:108:ARG:HA	44:NM:281:ALA:HB2	1.81	0.61
38:5F:143:GLY:H	45:OH:279:GLN:NE2	1.98	0.61
38:5H:111:ASN:HB3	45:NN:44:LEU:CD1	2.31	0.61
39:5I:96:SER:OG	44:JA:434:GLU:HG3	2.01	0.61
35:5R:230:GLU:HA	35:5R:233:GLU:OE2	2.00	0.61
35:5R:256:LEU:O	35:5R:277:ASN:HA	2.00	0.61
35:6R:294:ASN:ND2	45:DN:219:THR:H	1.99	0.61
42:8N:88:UNK:O	42:8N:92:UNK:N	2.33	0.61
44:AA:268:MET:HG3	44:AA:378:ILE:CG2	2.31	0.61
45:AB:313:ALA:HB1	45:AB:367:PHE:CE1	2.36	0.61
45:AD:81:PHE:O	45:AD:84:LEU:HD13	2.01	0.61
44:AE:11:GLN:HG3	44:AE:74:VAL:HG11	1.83	0.61
44:AE:212:ILE:HD13	44:AE:215:ARG:NH2	2.15	0.61
45:AF:50:TYR:OH	45:AF:134:GLN:OE1	2.18	0.61
45:AF:221:THR:O	45:AF:224:ASP:N	2.33	0.61
45:AH:342:VAL:HG13	45:AH:345:ILE:HG22	1.83	0.61
45:AJ:207:LEU:HB3	45:AJ:225:LEU:HD22	1.80	0.61
44:AK:60:LYS:NZ	44:AK:85:GLN:O	2.33	0.61
44:AK:102:ASN:ND2	44:AK:105:ARG:HG3	2.15	0.61
44:AK:207:GLU:HA	44:AK:210:TYR:HD2	1.63	0.61
44:AK:284:GLU:HG3	44:AK:286:LEU:HD22	1.80	0.61
45:AL:377:MET:O	45:AL:380:ARG:HG2	2.00	0.61
45:AN:186:THR:O	45:AN:189:VAL:HG12	2.00	0.61
44:BA:221:ARG:CZ	45:BB:325:GLU:HB2	2.30	0.61
45:BB:73:MET:HA	45:BB:76:VAL:HG12	1.83	0.61
44:BC:3:GLU:OE2	44:BC:129:CYS:HB3	2.01	0.61
44:BC:209:ILE:HD13	44:BC:302:MET:SD	2.40	0.61
44:BC:265:ILE:HG23	44:BC:432:TYR:OH	2.00	0.61
44:BC:290:GLU:O	44:BC:293:ASN:HB2	2.00	0.61
45:BD:32:PRO:HG3	45:BD:81:PHE:CZ	2.36	0.61
44:BE:6:SER:O	44:BE:7:ILE:HD13	2.00	0.61
44:BE:139:ASN:OD1	44:BE:170:THR:HG22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:262:TYR:CE1	45:BH:393:ALA:HA	2.35	0.61
45:BF:285:THR:HG22	45:BF:287:PRO:HD2	1.82	0.61
44:BG:242:LEU:HD11	44:BG:252:ILE:CD1	2.30	0.61
45:BH:197:ASP:O	45:BH:198:GLU:HG3	2.01	0.61
44:BM:88:HIS:HA	44:CM:283:HIS:CE1	2.35	0.61
44:BM:121:ARG:NH1	44:BM:124:LYS:HD2	2.15	0.61
44:BM:171:ILE:HG23	44:BM:204:LEU:O	2.00	0.61
45:BN:215:LEU:HD11	45:BN:228:LEU:HD11	1.83	0.61
44:CA:165:SER:O	44:CA:166:LYS:HG3	2.00	0.61
45:CB:1:MET:O	45:CB:2:ARG:HG2	2.01	0.61
45:CB:36:TYR:OH	45:CB:43:GLN:HB2	2.00	0.61
45:CF:5:VAL:HG12	45:CF:62:ARG:CD	2.29	0.61
45:CF:66:MET:HE2	45:CF:66:MET:HA	1.83	0.61
44:CI:54:SER:HB3	44:CI:64:ARG:NH2	2.14	0.61
44:CK:71:GLU:OE2	44:CK:73:THR:OG1	2.13	0.61
44:CM:5:ILE:O	44:CM:136:LEU:N	2.34	0.61
45:CN:113:ILE:CD1	45:CN:150:LEU:HD22	2.30	0.61
44:DA:6:SER:HA	44:DA:136:LEU:O	1.99	0.61
45:DB:112:LEU:O	45:DB:112:LEU:HD23	2.01	0.61
45:DB:294:PHE:HD2	45:DB:333:VAL:HG11	1.66	0.61
44:DE:76:ASP:O	44:DE:79:ARG:NH1	2.33	0.61
44:DG:225:THR:HA	44:DG:228:ASN:HD22	1.65	0.61
45:DH:112:LEU:HD22	45:DH:147:MET:SD	2.40	0.61
45:DH:334:GLN:HE22	45:DH:347:ASN:N	1.99	0.61
44:DK:66:VAL:HG11	44:DK:122:ILE:CD1	2.27	0.61
44:DK:175:PRO:HG3	44:DK:304:LYS:HD2	1.81	0.61
45:DL:377:MET:O	45:DL:381:VAL:N	2.26	0.61
44:DM:208:ALA:HB2	44:DM:304:LYS:CB	2.28	0.61
45:DN:232:ALA:O	45:DN:236:VAL:HG23	2.00	0.61
45:DN:287:PRO:HG3	45:DN:329:GLN:HE22	1.66	0.61
44:EA:318:MET:O	44:EA:375:VAL:HG13	2.00	0.61
45:ED:293:MET:SD	45:ED:365:VAL:HG11	2.41	0.61
44:EE:70:LEU:HD12	44:EE:145:THR:OG1	2.01	0.61
45:EF:135:ILE:HB	45:EF:166:THR:CG2	2.28	0.61
45:EF:178:THR:CG2	45:EF:180:VAL:HG12	2.30	0.61
45:EF:323:THR:HG23	44:EG:223:THR:OG1	2.00	0.61
45:EH:304:ASP:OD1	45:EH:306:ARG:HG2	2.01	0.61
45:EH:324:LYS:HD2	44:EI:222:PRO:HD2	1.83	0.61
44:EI:37:PRO:HD2	44:EI:40:LYS:HB3	1.83	0.61
44:EM:22:GLU:O	44:EM:25:CYS:N	2.33	0.61
45:EN:22:GLU:O	45:EN:26:ASP:N	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:170:THR:O	44:FA:204:LEU:HB2	1.99	0.61
44:FC:269:LEU:HD23	44:FC:269:LEU:H	1.65	0.61
44:FE:156:ARG:HH11	44:FE:156:ARG:HG2	1.65	0.61
44:FG:183:GLU:HG2	44:FG:184:PRO:HD3	1.82	0.61
45:FN:211:CYS:CB	45:FN:220:PRO:HG2	2.30	0.61
45:FN:317:PHE:CE2	45:FN:326:VAL:HG13	2.35	0.61
44:GA:269:LEU:H	44:GA:269:LEU:HD23	1.65	0.61
45:GB:22:GLU:HG2	45:GB:81:PHE:HB2	1.83	0.61
45:GD:135:ILE:HB	45:GD:166:THR:CG2	2.30	0.61
45:GD:200:MET:HG2	45:GD:266:PHE:CB	2.20	0.61
44:GE:377:MET:O	44:GE:378:ILE:HD13	2.01	0.61
45:GH:258:ILE:HD11	45:GH:266:PHE:HZ	1.66	0.61
44:GI:404:PHE:CD2	45:GJ:259:PRO:HA	2.36	0.61
45:GL:12:CYS:O	45:GL:16:ILE:HD12	1.99	0.61
45:GL:180:VAL:HG22	45:GL:183:TYR:HB2	1.82	0.61
44:GM:294:SER:O	44:GM:297:GLU:HB2	2.00	0.61
45:GN:36:TYR:CE1	45:GN:44:LEU:HG	2.35	0.61
44:HC:88:HIS:O	44:HC:92:LEU:HD12	2.00	0.61
44:HE:316:SER:HB3	44:HE:378:ILE:HB	1.81	0.61
45:HF:112:LEU:O	45:HF:112:LEU:HD23	2.01	0.61
44:HG:261:PRO:HA	45:HJ:394:PHE:CD1	2.36	0.61
45:HH:183:TYR:O	45:HH:186:THR:HG22	2.01	0.61
44:HI:407:TRP:CZ3	45:HJ:255:VAL:HG22	2.35	0.61
45:HJ:117:LEU:HG	45:HJ:121:ARG:HH21	1.66	0.61
45:HJ:207:LEU:HB3	45:HJ:225:LEU:HD22	1.80	0.61
44:HK:216:ASN:HB3	44:HK:275:ILE:O	2.01	0.61
44:HM:101:ASN:N	45:HN:252:LYS:HE2	2.14	0.61
45:HN:36:TYR:CE1	45:HN:44:LEU:HG	2.36	0.61
45:HN:344:TRP:CZ3	45:HN:345:ILE:HB	2.36	0.61
44:IA:396:ASP:OD1	44:IA:422:ARG:NE	2.23	0.61
45:IB:184:ASN:HA	45:IB:187:LEU:HB2	1.83	0.61
44:IC:184:PRO:HG2	44:IC:398:MET:HE1	1.83	0.61
45:ID:267:MET:HE2	45:ID:301:CYS:CB	2.31	0.61
44:IE:9:VAL:HG12	44:IE:146:GLY:HA2	1.81	0.61
45:IF:86:ARG:HE	45:IF:87:PRO:HD2	1.65	0.61
44:IG:37:PRO:HB2	44:IG:39:ASP:OD1	2.01	0.61
44:IG:183:GLU:HG2	44:IG:184:PRO:HD3	1.81	0.61
44:II:280:LYS:HE3	44:II:283:HIS:ND1	2.16	0.61
45:IJ:207:LEU:HD23	45:IJ:300:MET:CE	2.30	0.61
44:IM:208:ALA:HB2	44:IM:304:LYS:N	2.16	0.61
44:JA:254:GLU:CG	45:JD:98:GLY:HA2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:199:CYS:HB3	45:JB:264:HIS:O	2.00	0.61
45:JB:258:ILE:O	45:JB:258:ILE:HG13	2.01	0.61
45:JD:101:TRP:CZ3	45:JD:187:LEU:HB3	2.35	0.61
44:JE:177:VAL:HG22	45:JF:331:LEU:HD22	1.82	0.61
45:JF:18:ALA:O	45:JF:22:GLU:HG3	2.00	0.61
44:JG:145:THR:HG22	46:JG:501:GTP:PG	2.40	0.61
44:JG:194:LEU:O	44:JG:198:THR:HG22	2.00	0.61
44:JG:218:ASP:O	44:JG:219:ILE:HD13	2.01	0.61
45:JJ:86:ARG:HB3	45:JJ:89:ASN:OD1	2.01	0.61
45:JJ:410:GLU:O	45:JJ:413:SER:HB2	2.00	0.61
44:JK:288:VAL:HA	44:JK:291:ILE:HG12	1.82	0.61
45:JL:167:PHE:HE2	45:JL:233:MET:HB2	1.64	0.61
45:JL:178:THR:HB	45:JL:181:GLU:CG	2.31	0.61
45:JL:318:ARG:HH12	45:JL:358:PRO:HG3	1.65	0.61
44:KA:56:THR:HG22	44:LA:285:GLN:HG2	1.82	0.61
44:KA:169:PHE:CD1	44:KA:202:VAL:HB	2.36	0.61
45:KB:7:ILE:HD11	45:KB:120:VAL:HG23	1.83	0.61
45:KB:274:THR:HG21	45:KB:282:ARG:HD3	1.83	0.61
45:KB:314:SER:HB2	45:KB:350:LYS:HE3	1.81	0.61
44:KC:19:ALA:HB3	44:KC:228:ASN:HB3	1.82	0.61
44:KE:394:LYS:HD2	45:KF:346:PRO:CG	2.30	0.61
44:KG:233:GLN:HE22	44:KG:360:PRO:HB3	1.65	0.61
45:KN:317:PHE:HA	45:KN:365:VAL:HG12	1.83	0.61
44:LA:54:SER:HB3	44:LA:64:ARG:HH12	1.65	0.61
44:LG:209:ILE:HD12	44:LG:227:LEU:HD22	1.81	0.61
45:LJ:12:CYS:HB2	48:LJ:501:GDP:C8	2.36	0.61
44:LM:406:HIS:O	44:LM:409:VAL:N	2.33	0.61
45:LN:6:HIS:HD1	45:LN:134:GLN:HG3	1.66	0.61
45:LN:286:VAL:HA	45:LN:289:LEU:HB2	1.81	0.61
44:ME:200:VAL:HG21	44:ME:256:GLN:HB3	1.82	0.61
44:MG:7:ILE:HB	44:MG:137:VAL:HG12	1.82	0.61
45:MH:3:GLU:CB	45:MH:49:VAL:HA	2.30	0.61
45:MH:235:GLY:HA2	45:MH:318:ARG:NH2	2.16	0.61
45:MJ:253:LEU:O	45:MJ:257:LEU:HD13	2.00	0.61
44:NA:232:ALA:HA	44:NA:235:ILE:CD1	2.31	0.61
44:NA:325:PRO:HA	44:NA:328:VAL:CG1	2.30	0.61
45:NB:117:LEU:HA	45:NB:120:VAL:HG12	1.81	0.61
44:NC:345:ASP:OD1	44:NC:346:TRP:N	2.34	0.61
45:ND:14:ASN:HD22	45:ND:72:THR:HG21	1.64	0.61
44:NE:215:ARG:NH2	44:NE:300:ASN:HA	2.16	0.61
45:NF:178:THR:O	45:NF:181:GLU:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:383:GLU:O	45:NH:386:THR:HG22	1.99	0.61
45:NJ:22:GLU:HA	45:NJ:81:PHE:HD2	1.66	0.61
44:NK:199:ASP:OD1	44:NK:256:GLN:HB2	2.01	0.61
45:NL:51:TYR:HE1	45:NL:61:PRO:HG3	1.64	0.61
44:NM:54:SER:OG	44:NM:62:VAL:HB	2.01	0.61
44:OA:276:ILE:HG13	44:OA:280:LYS:CE	2.30	0.61
44:OA:320:ARG:HG3	44:OA:374:ALA:CB	2.30	0.61
45:OB:6:HIS:HA	45:OB:134:GLN:CG	2.31	0.61
44:OC:69:ASP:HB3	44:OC:75:ILE:CD1	2.31	0.61
44:OE:209:ILE:HA	44:OE:212:ILE:HG12	1.81	0.61
45:OF:192:LEU:HD21	45:OF:199:CYS:SG	2.40	0.61
44:OK:24:PHE:CE1	44:OK:236:SER:HB2	2.23	0.61
45:OL:163:ILE:HA	45:OL:197:ASP:OD2	1.99	0.61
45:OL:194:GLU:HG3	45:OL:195:ASN:OD1	2.01	0.61
44:PA:289:ALA:O	44:PA:292:THR:HG22	2.00	0.61
45:PB:25:SER:O	45:PB:29:GLY:N	2.34	0.61
45:PB:325:GLU:HA	45:PB:328:GLU:HG2	1.83	0.61
45:PD:317:PHE:HA	45:PD:365:VAL:CG2	2.30	0.61
44:PE:140:SER:O	44:PE:146:GLY:HA3	2.00	0.61
44:PE:434:GLU:O	44:PE:437:ILE:HG12	2.00	0.61
45:PF:103:LYS:HG3	45:PF:107:THR:OG1	2.00	0.61
44:PG:14:ILE:HD13	44:PG:75:ILE:HG12	1.82	0.61
44:PG:155:GLU:HA	44:PG:197:HIS:NE2	2.15	0.61
45:PH:257:LEU:HB3	45:PH:266:PHE:CZ	2.36	0.61
45:PH:326:VAL:O	45:PH:330:MET:N	2.28	0.61
44:PI:183:GLU:HG2	44:PI:184:PRO:HD3	1.82	0.61
44:PI:195:LEU:HD21	44:PI:264:ARG:HH22	1.65	0.61
45:PL:86:ARG:HH21	45:PL:87:PRO:CG	2.10	0.61
45:PN:67:ASP:O	45:PN:92:PHE:HA	2.01	0.61
45:PN:169:VAL:HG22	45:PN:202:ILE:CB	2.24	0.61
45:PN:288:GLU:HA	45:PN:291:GLN:CG	2.31	0.61
44:QA:101:ASN:HA	44:QA:144:GLY:N	2.15	0.61
44:QA:330:ALA:HA	44:QA:333:ALA:HB3	1.82	0.61
44:QA:427:ALA:O	44:QA:431:ASP:N	2.31	0.61
45:QB:304:ASP:OD1	45:QB:306:ARG:HG2	1.99	0.61
44:QC:174:SER:HB2	44:QC:177:VAL:O	2.01	0.61
44:QE:89:PRO:HD3	44:RE:280:LYS:CD	2.31	0.61
45:QF:170:VAL:CG2	45:QF:171:PRO:HD2	2.30	0.61
44:QG:242:LEU:HD21	44:QG:251:ASP:CA	2.18	0.61
45:QH:12:CYS:HB2	48:QH:501:GDP:O4'	2.01	0.61
45:QH:101:TRP:CE3	45:QH:187:LEU:HD13	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:116:VAL:HG22	45:QL:120:VAL:HG23	1.82	0.61
44:QM:317:MET:HA	44:QM:377:MET:HA	1.82	0.61
44:RA:104:ALA:CB	44:RA:411:GLU:HB2	2.30	0.61
44:RA:185:TYR:HB3	44:RA:418:PHE:HE1	1.66	0.61
45:RB:5:VAL:HG12	45:RB:62:ARG:HB3	1.83	0.61
45:RB:293:MET:HE2	45:RB:365:VAL:HG11	1.83	0.61
44:RC:3:GLU:OE2	44:RC:131:GLY:N	2.32	0.61
44:RC:209:ILE:O	44:RC:212:ILE:N	2.34	0.61
45:RD:324:LYS:HD3	44:RE:222:PRO:CG	2.30	0.61
45:RD:326:VAL:O	45:RD:330:MET:HG2	2.01	0.61
44:RE:2:ARG:O	44:RE:51:THR:HA	2.00	0.61
44:RE:188:ILE:HD12	44:RE:425:LEU:HD11	1.83	0.61
44:RE:242:LEU:HD11	44:RE:252:ILE:HG12	1.82	0.61
45:RF:337:ASN:HB3	45:RF:340:TYR:HB2	1.83	0.61
44:RG:352:LYS:HD3	44:RG:353:VAL:H	1.64	0.61
45:RH:285:THR:OG1	45:RH:287:PRO:HD2	2.00	0.61
44:RI:68:LEU:HD21	44:RI:118:CYS:CB	2.30	0.61
44:RK:252:ILE:HA	44:RK:255:PHE:CD2	2.35	0.61
45:RL:313:ALA:CB	45:RL:369:GLY:HA3	2.31	0.61
44:RM:224:TYR:HA	44:RM:227:LEU:HD12	1.83	0.61
45:RN:130:LEU:HD21	45:RN:133:PHE:CZ	2.36	0.61
45:SB:410:GLU:O	45:SB:413:SER:OG	2.10	0.61
44:SC:141:VAL:HG22	44:SC:187:SER:HA	1.83	0.61
44:SC:271:SER:HB2	44:SC:377:MET:CG	2.31	0.61
44:SE:296:PHE:HE2	44:SE:335:ILE:HG12	1.65	0.61
44:SG:169:PHE:HZ	44:SG:238:LEU:HD13	1.65	0.61
44:SI:115:VAL:O	44:SI:119:LEU:HD23	2.00	0.61
44:SI:254:GLU:CG	45:SJ:98:GLY:HA2	2.30	0.61
45:SJ:134:GLN:HA	45:SJ:165:GLU:CB	2.30	0.61
45:SJ:263:LEU:HD11	45:SJ:422:TYR:HE1	1.65	0.61
45:SJ:317:PHE:CE2	45:SJ:326:VAL:HG22	2.35	0.61
45:SJ:404:ASP:OD1	45:SJ:407:GLU:HG3	2.00	0.61
45:SL:257:LEU:HD21	45:SL:368:VAL:HG23	1.81	0.61
45:SN:152:ILE:HG23	45:SN:164:MET:HE1	1.81	0.61
45:SN:184:ASN:OD1	45:SN:185:ALA:N	2.33	0.61
44:TA:191:THR:HA	44:TA:194:LEU:CG	2.31	0.61
44:TA:316:SER:O	44:TA:377:MET:HB2	2.00	0.61
44:TC:229:ARG:HH11	44:TC:363:VAL:HG11	1.65	0.61
44:TC:261:PRO:HA	45:TD:394:PHE:CE1	2.35	0.61
45:TD:101:TRP:HD1	45:TD:145:SER:HG	1.48	0.61
44:TE:285:GLN:C	44:TE:286:LEU:HD23	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:285:GLN:N	44:TE:285:GLN:OE1	2.33	0.61
44:TE:316:SER:N	44:TE:378:ILE:O	2.33	0.61
44:TE:362:VAL:HG11	44:TE:370:LYS:HB3	1.81	0.61
45:TH:256:ASN:CB	45:TH:350:LYS:HD2	2.31	0.61
44:TI:88:HIS:HB3	44:TI:91:GLN:CG	2.30	0.61
44:TI:261:PRO:HA	45:TJ:394:PHE:HE1	1.65	0.61
45:TJ:97:ALA:HB1	45:TJ:103:LYS:HB3	1.83	0.61
44:TK:135:PHE:CE2	44:TK:157:LEU:HD22	2.35	0.61
44:TM:233:GLN:HA	44:TM:236:SER:HB3	1.82	0.61
45:TN:272:PRO:CD	45:TN:364:ALA:HA	2.31	0.61
45:TN:274:THR:CG2	45:TN:279:GLN:HA	2.31	0.61
44:UA:289:ALA:HA	44:UA:292:THR:HG21	1.83	0.61
45:UB:325:GLU:HB3	44:UC:221:ARG:CZ	2.31	0.61
45:UD:211:CYS:O	45:UD:217:LEU:HB2	2.00	0.61
44:UE:156:ARG:O	44:UE:159:VAL:HG12	2.00	0.61
44:UI:402:ARG:HB3	44:UI:405:VAL:HG11	1.82	0.61
44:UK:389:SER:HA	44:UK:429:GLU:OE2	2.00	0.61
44:UM:50:ASN:OD1	44:UM:51:THR:N	2.33	0.61
44:UM:205:ASP:OD2	44:UM:304:LYS:N	2.33	0.61
45:UN:166:THR:O	45:UN:199:CYS:HA	2.01	0.61
45:VB:110:ALA:O	45:VB:113:ILE:HG22	2.00	0.61
45:VD:152:ILE:HG22	45:VD:195:ASN:HB3	1.82	0.61
45:VF:295:ASP:CG	45:VF:297:LYS:HG2	2.20	0.61
45:VH:163:ILE:HD11	45:VH:250:LEU:HB2	1.81	0.61
44:VI:113:GLU:O	44:VI:114:ILE:HD13	1.99	0.61
44:VI:202:VAL:HA	44:VI:268:MET:O	2.01	0.61
44:VK:313:MET:HE1	44:VK:435:VAL:HG11	1.81	0.61
44:VK:313:MET:HG2	44:VK:346:TRP:HZ2	1.65	0.61
45:VL:166:THR:O	45:VL:199:CYS:HA	2.01	0.61
44:VM:13:GLY:HA2	44:VM:16:VAL:CG1	2.30	0.61
44:VM:183:GLU:HG2	44:VM:184:PRO:HD3	1.83	0.61
45:VN:99:ASN:OD1	45:VN:141:GLY:HA2	2.01	0.61
45:WB:8:GLN:CG	45:WB:65:LEU:HG	2.30	0.61
44:WC:223:THR:HA	45:WD:323:THR:OG1	1.99	0.61
45:WF:296:ALA:HA	45:WF:305:PRO:HG2	1.83	0.61
45:WJ:47:ILE:HD13	45:WJ:59:TYR:HE2	1.66	0.61
45:WJ:130:LEU:HB3	45:WJ:162:ARG:HD2	1.81	0.61
44:WK:210:TYR:CE1	44:WK:227:LEU:HD11	2.35	0.61
45:WL:399:THR:HA	45:WL:403:MET:O	2.01	0.61
44:WM:206:ASN:OD1	46:WM:501:GTP:N2	2.24	0.61
44:WM:276:ILE:HD13	44:WM:281:ALA:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:112:LEU:HD23	45:WN:112:LEU:O	2.01	0.61
3:0B:23:ALA:HA	45:JH:276:ARG:HH21	1.65	0.61
5:0D:27:ILE:HD11	45:DB:39:ASP:O	2.01	0.61
5:0D:41:TYR:HA	44:DC:79:ARG:NH2	2.16	0.61
13:0T:147:PHE:CG	45:MB:106:TYR:HB3	2.36	0.61
2:1A:124:LEU:HD22	45:AF:279:GLN:HE22	1.64	0.61
17:1B:1:MET:HG3	45:LD:359:LYS:CB	2.25	0.61
4:1C:50:GLU:OE1	45:EL:362:LYS:NZ	2.33	0.61
18:1F:117:MET:O	45:GJ:320:ARG:HD3	2.01	0.61
20:1J:247:PRO:HA	44:II:219:ILE:HD13	1.77	0.61
20:1J:262:VAL:HB	44:II:370:LYS:HZ2	1.66	0.61
23:1M:43:LYS:HB3	45:IF:77:ARG:HH21	1.64	0.61
17:2B:4:ILE:CD1	45:LL:320:ARG:HH21	2.13	0.61
28:4C:3:LEU:HD21	45:LN:40:SER:HB2	1.83	0.61
34:4F:193:LYS:HZ1	44:IM:219:ILE:HG12	1.66	0.61
35:4R:318:TYR:CE1	45:CF:273:LEU:HD23	2.35	0.61
37:5A:59:TYR:O	45:KB:390:ARG:HD2	2.00	0.61
37:5D:59:TYR:H	45:KN:182:PRO:C	2.03	0.61
38:5H:77:LYS:CD	38:5H:80:LYS:HD2	2.29	0.61
11:5Q:75:PHE:HB2	11:5Q:169:ASP:HA	1.82	0.61
36:5S:194:LYS:HA	36:5S:218:ILE:CD1	2.30	0.61
35:7R:93:LEU:HD21	35:7R:190:PHE:CG	2.35	0.61
35:7R:231:TYR:HD1	45:CB:218:THR:HG22	1.65	0.61
42:8N:332:UNK:O	42:8N:336:UNK:N	2.34	0.61
44:AG:222:PRO:HG2	45:AH:324:LYS:HD3	1.81	0.61
44:AI:228:ASN:HA	44:AI:231:ILE:HG22	1.83	0.61
45:AJ:326:VAL:O	45:AJ:330:MET:HG2	2.00	0.61
44:AM:68:LEU:HD21	44:AM:118:CYS:CB	2.29	0.61
45:AN:40:SER:N	45:AN:43:GLN:OE1	2.25	0.61
44:BA:339:ARG:HD2	44:BA:339:ARG:O	2.01	0.61
44:BC:210:TYR:CE1	44:BC:227:LEU:HD11	2.36	0.61
44:BI:21:TRP:CZ2	44:BI:65:ALA:HB2	2.35	0.61
45:BJ:396:HIS:HA	45:BJ:399:THR:CG2	2.29	0.61
44:BK:238:LEU:HA	44:BK:318:MET:CE	2.30	0.61
44:BK:254:GLU:HG2	45:BN:98:GLY:CA	2.25	0.61
44:BM:70:LEU:HD13	44:BM:110:ILE:HD12	1.83	0.61
44:BM:151:SER:O	44:BM:155:GLU:HG3	2.01	0.61
44:BM:202:VAL:HA	44:BM:268:MET:O	2.01	0.61
45:BN:64:ILE:HG13	45:BN:89:ASN:ND2	2.15	0.61
44:CA:290:GLU:HA	44:CA:293:ASN:HB2	1.83	0.61
45:CB:32:PRO:HG3	45:CB:81:PHE:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:349:THR:HG23	45:CF:176:SER:HB2	1.82	0.61
45:CF:7:ILE:HG13	45:CF:7:ILE:O	2.00	0.61
45:CF:36:TYR:CE1	45:CF:44:LEU:HG	2.36	0.61
45:CF:372:THR:HA	45:CF:422:TYR:HE1	1.66	0.61
44:CG:34:GLY:O	44:CG:60:LYS:HA	2.00	0.61
45:CL:256:ASN:ND2	44:CM:181:VAL:HG22	2.16	0.61
44:CM:217:LEU:HD13	44:CM:277:SER:CA	2.30	0.61
45:CN:114:ASP:OD1	45:CN:115:SER:N	2.33	0.61
45:CN:268:ILE:HG13	45:CN:300:MET:HE2	1.83	0.61
44:DA:256:GLN:HB2	45:DB:397:TRP:CZ2	2.36	0.61
44:DC:36:MET:CE	44:DC:37:PRO:HD2	2.31	0.61
45:DD:164:MET:HE3	45:DD:197:ASP:H	1.66	0.61
44:DE:25:CYS:HA	44:DE:30:ILE:HD11	1.82	0.61
44:DE:30:ILE:HD13	44:DE:53:PHE:CZ	2.36	0.61
45:DF:246:LEU:HA	44:DG:11:GLN:HE22	1.65	0.61
44:DI:200:VAL:HG11	44:DI:255:PHE:CE2	2.35	0.61
45:DJ:230:SER:HA	45:DJ:233:MET:HE2	1.83	0.61
44:DK:109:THR:O	44:DK:113:GLU:HG3	2.00	0.61
44:DK:141:VAL:CG1	44:DK:172:TYR:HA	2.31	0.61
44:DK:312:TYR:HB2	44:DK:343:PHE:HA	1.81	0.61
44:EA:8:HIS:HB2	44:EA:67:PHE:HA	1.82	0.61
44:EA:324:VAL:HG12	44:EA:326:LYS:HG3	1.83	0.61
45:EB:251:ARG:O	45:EB:255:VAL:N	2.25	0.61
45:ED:151:LEU:HA	45:ED:154:LYS:HZ3	1.65	0.61
44:EE:161:TYR:HB3	44:EE:164:LYS:HE2	1.81	0.61
45:EF:251:ARG:O	45:EF:255:VAL:HG23	2.00	0.61
45:EF:301:CYS:HB3	45:EF:376:GLU:OE2	2.01	0.61
44:EG:259:LEU:HD11	44:EG:378:ILE:HG22	1.83	0.61
45:EH:323:THR:O	45:EH:326:VAL:HB	2.01	0.61
44:EI:296:PHE:HE2	44:EI:335:ILE:HG21	1.65	0.61
45:EJ:49:VAL:HG21	45:EJ:241:ARG:CG	2.29	0.61
45:EJ:415:MET:O	45:EJ:419:VAL:HG23	2.01	0.61
44:FA:83:TYR:O	44:FA:86:LEU:N	2.27	0.61
44:FA:258:ASN:OD1	44:FA:259:LEU:HG	2.01	0.61
44:FC:224:TYR:HE2	45:FD:246:LEU:HD11	1.65	0.61
45:FD:103:LYS:HG3	45:FD:107:THR:OG1	2.00	0.61
44:FE:22:GLU:HG3	44:FE:83:TYR:OH	2.01	0.61
44:FE:404:PHE:CE1	45:FF:259:PRO:HA	2.36	0.61
45:FL:135:ILE:HG13	45:FL:152:ILE:CD1	2.30	0.61
45:FL:376:GLU:O	45:FL:380:ARG:HG3	2.01	0.61
45:FN:275:SER:OG	45:FN:278:SER:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:261:PRO:HG3	45:GD:394:PHE:CZ	2.35	0.61
44:GA:288:VAL:HA	44:GA:291:ILE:HG12	1.83	0.61
44:GC:101:ASN:HD22	44:GC:144:GLY:H	1.48	0.61
44:GE:344:VAL:CG1	44:GE:347:CYS:HB2	2.31	0.61
45:GH:330:MET:HE3	45:GH:349:ILE:HG21	1.82	0.61
44:GM:319:TYR:HA	44:GM:375:VAL:HA	1.83	0.61
45:HB:116:VAL:O	45:HB:119:VAL:HG12	2.01	0.61
45:HB:246:LEU:HD13	45:HB:353:ILE:HD13	1.81	0.61
44:HC:4:VAL:HG12	44:HC:134:GLY:H	1.66	0.61
44:HC:268:MET:HB3	44:HC:380:ASN:OD1	2.01	0.61
45:HD:68:LEU:HD23	45:HD:97:ALA:HB2	1.82	0.61
45:HH:5:VAL:HG12	45:HH:62:ARG:HD3	1.80	0.61
45:HH:213:ARG:HH21	45:HH:297:LYS:HD2	1.65	0.61
45:HJ:257:LEU:HD21	45:HJ:368:VAL:HG23	1.83	0.61
45:HL:52:ASN:OD1	45:HL:53:GLU:N	2.31	0.61
45:HL:293:MET:CE	45:HL:365:VAL:HG11	2.31	0.61
45:HN:150:LEU:HD12	45:HN:151:LEU:N	2.16	0.61
44:IC:88:HIS:HB3	44:IC:91:GLN:CG	2.30	0.61
44:IC:307:PRO:HB2	44:IC:312:TYR:OH	2.00	0.61
45:JB:204:ASN:ND2	48:JB:501:GDP:N3	2.49	0.61
44:JE:95:GLY:O	44:JE:96:LYS:HE2	2.01	0.61
44:JE:209:ILE:O	44:JE:212:ILE:HG22	2.01	0.61
45:JH:11:GLN:HB3	48:JH:501:GDP:O1A	2.00	0.61
45:JH:211:CYS:O	45:JH:215:LEU:HB2	2.01	0.61
45:JH:382:ALA:HB2	45:JH:415:MET:HE2	1.83	0.61
45:JH:403:MET:HA	45:JH:403:MET:CE	2.30	0.61
44:JI:167:LEU:HD23	44:JI:200:VAL:HB	1.83	0.61
45:JJ:73:MET:HA	45:JJ:76:VAL:HG12	1.82	0.61
45:KD:50:TYR:O	45:KD:62:ARG:HG2	2.01	0.61
45:KD:313:ALA:O	45:KD:349:ILE:HA	2.01	0.61
44:KE:372:MET:C	44:KE:373:ARG:HD3	2.21	0.61
45:KF:337:ASN:HB3	45:KF:340:TYR:HB2	1.81	0.61
44:KI:260:VAL:O	44:KI:260:VAL:HG13	2.00	0.61
44:KI:298:PRO:HG3	44:KI:308:ARG:NH1	2.16	0.61
45:KL:152:ILE:HD12	45:KL:164:MET:HE1	1.82	0.61
44:KM:7:ILE:HA	44:KM:66:VAL:CG1	2.31	0.61
44:KM:205:ASP:OD2	44:KM:304:LYS:N	2.27	0.61
45:KN:399:THR:HG22	45:KN:403:MET:O	2.00	0.61
44:LE:67:PHE:HB2	44:LE:92:LEU:CD2	2.31	0.61
45:LH:103:LYS:NZ	45:LH:108:GLU:OE2	2.34	0.61
45:LJ:101:TRP:O	45:LJ:104:GLY:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:117:LEU:HA	45:LJ:120:VAL:HG12	1.83	0.61
45:LN:12:CYS:HB2	48:LN:502:GDP:N9	2.16	0.61
45:LN:49:VAL:HG11	45:LN:241:ARG:CD	2.30	0.61
44:MA:53:PHE:O	44:MA:64:ARG:NE	2.34	0.61
44:MC:156:ARG:HG3	44:MC:156:ARG:HH11	1.65	0.61
45:MD:186:THR:HA	45:MD:415:MET:HE1	1.83	0.61
44:MG:136:LEU:HD13	44:MG:235:ILE:HD11	1.83	0.61
44:MG:260:VAL:CG2	45:MJ:397:TRP:HE1	2.14	0.61
44:MI:271:SER:OG	44:MI:301:MET:HA	2.01	0.61
44:MI:428:LEU:HG	44:MI:432:TYR:CE2	2.36	0.61
45:MJ:284:LEU:HB3	45:MJ:362:LYS:HZ1	1.64	0.61
45:MJ:293:MET:HG2	45:MJ:365:VAL:CG1	2.30	0.61
44:MM:208:ALA:HB3	44:MM:302:MET:O	2.01	0.61
45:MN:54:ALA:CB	45:MN:86:ARG:HH12	2.13	0.61
45:MN:112:LEU:HD23	45:MN:112:LEU:O	2.00	0.61
45:MN:302:ALA:HB3	45:MN:377:MET:SD	2.41	0.61
44:NA:220:GLU:HG3	44:NA:221:ARG:HH11	1.65	0.61
45:NB:12:CYS:CB	45:NB:138:SER:HB2	2.31	0.61
44:NC:279:GLU:HG3	44:NC:280:LYS:H	1.65	0.61
44:NG:60:LYS:HD2	44:OG:282:TYR:HE2	1.65	0.61
45:NJ:22:GLU:HG2	45:NJ:81:PHE:CD2	2.36	0.61
45:NL:52:ASN:HB3	45:NL:60:VAL:CG2	2.30	0.61
44:OC:118:CYS:O	44:OC:122:ILE:HD12	2.01	0.61
44:OC:269:LEU:HD23	44:OC:379:SER:O	2.00	0.61
45:OD:320:ARG:HD2	45:OD:320:ARG:O	2.01	0.61
44:OG:189:LEU:HD11	44:OG:418:PHE:CZ	2.36	0.61
45:OH:108:GLU:O	45:OH:111:GLU:N	2.34	0.61
45:OJ:345:ILE:O	45:OJ:345:ILE:HG13	2.01	0.61
45:OL:326:VAL:O	45:OL:330:MET:HG2	2.00	0.61
44:PA:145:THR:HG22	46:PA:501:GTP:O3B	2.01	0.61
44:PA:183:GLU:HG2	44:PA:184:PRO:HD3	1.82	0.61
45:PB:20:PHE:HE2	45:PB:233:MET:HG3	1.66	0.61
44:PE:248:LEU:HD21	44:PE:353:VAL:O	2.00	0.61
45:PF:112:LEU:O	45:PF:112:LEU:HD23	2.01	0.61
44:PG:435:VAL:HG12	44:PG:435:VAL:O	1.99	0.61
45:PH:67:ASP:HB3	45:PH:73:MET:CE	2.31	0.61
45:PL:3:GLU:OE1	45:PL:3:GLU:N	2.34	0.61
44:PM:332:ILE:HD11	44:PM:351:PHE:CD2	2.34	0.61
44:PM:384:ILE:O	44:PM:387:VAL:HG22	2.01	0.61
45:PN:134:GLN:HA	45:PN:165:GLU:CB	2.31	0.61
45:PN:166:THR:OG1	45:PN:199:CYS:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:426:ALA:O	44:QA:430:LYS:N	2.27	0.61
44:QC:185:TYR:CE2	44:QC:404:PHE:HB2	2.35	0.61
45:QD:257:LEU:HD11	45:QD:314:SER:CB	2.31	0.61
45:QD:308:GLY:HA3	45:QD:372:THR:HG23	1.82	0.61
44:QE:36:MET:SD	44:QE:38:SER:N	2.73	0.61
45:QF:240:LEU:O	45:QF:240:LEU:HD23	2.01	0.61
44:QG:10:GLY:O	44:QG:13:GLY:N	2.34	0.61
44:QG:287:SER:O	44:QG:291:ILE:HG23	2.00	0.61
45:QH:305:PRO:HB3	45:QH:310:TYR:OH	2.00	0.61
45:QJ:415:MET:CE	45:QJ:418:LEU:HD23	2.31	0.61
45:QL:68:LEU:HD23	45:QL:97:ALA:N	2.14	0.61
45:RB:182:PRO:HB2	45:RB:388:MET:SD	2.41	0.61
45:RD:198:GLU:HG2	45:RD:266:PHE:HE2	1.66	0.61
44:RG:209:ILE:O	44:RG:212:ILE:HG22	2.00	0.61
44:RG:262:TYR:HE1	45:RH:392:LYS:HG3	1.64	0.61
44:RI:252:ILE:HA	44:RI:255:PHE:CE2	2.34	0.61
45:RJ:342:VAL:HG22	45:RJ:343:GLU:H	1.66	0.61
44:SC:32:PRO:HB3	44:SC:83:TYR:CE1	2.36	0.61
45:SD:54:ALA:CA	45:TD:283:ALA:HB2	2.27	0.61
44:SE:112:LYS:HA	44:SE:115:VAL:CG1	2.30	0.61
45:SH:99:ASN:C	45:SH:142:GLY:HA3	2.21	0.61
45:SH:259:PRO:HA	44:SI:404:PHE:CE1	2.35	0.61
45:SJ:102:ALA:HB2	45:SJ:403:MET:HE1	1.82	0.61
44:SM:375:VAL:HG22	44:SM:377:MET:CE	2.31	0.61
44:TC:19:ALA:HA	44:TC:22:GLU:OE1	2.01	0.61
44:TE:168:GLY:O	44:TE:201:ALA:HA	2.01	0.61
45:TF:16:ILE:HA	45:TF:19:LYS:HZ2	1.63	0.61
45:TF:53:GLU:HA	45:TF:59:TYR:HE1	1.65	0.61
45:TF:346:PRO:HG3	44:TG:394:LYS:HG2	1.82	0.61
44:TG:4:VAL:HG21	44:TG:136:LEU:HD23	1.82	0.61
45:TH:253:LEU:O	45:TH:257:LEU:HD13	2.00	0.61
45:TJ:243:PRO:HA	44:TK:73:THR:HG22	1.81	0.61
45:TJ:377:MET:O	45:TJ:380:ARG:HG2	2.00	0.61
45:UB:146:GLY:O	45:UB:149:THR:HG22	2.00	0.61
44:UC:145:THR:HG23	46:UC:501:GTP:O1B	2.00	0.61
44:UC:347:CYS:CA	45:UD:388:MET:HE1	2.31	0.61
45:UD:46:ARG:HH11	45:UD:46:ARG:HG3	1.65	0.61
45:UD:64:ILE:CG1	45:UD:120:VAL:HG22	2.31	0.61
45:UD:180:VAL:HG22	45:UD:183:TYR:HB2	1.83	0.61
45:UD:214:THR:O	45:UD:275:SER:HB3	2.01	0.61
45:UD:240:LEU:O	45:UD:240:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:293:MET:SD	45:UD:367:PHE:HB2	2.41	0.61
44:UG:301:MET:CE	44:UG:307:PRO:HD3	2.30	0.61
44:UI:175:PRO:HG3	44:UI:390:ARG:NE	2.14	0.61
44:UI:326:LYS:HE2	45:UJ:219:THR:HA	1.81	0.61
44:UM:242:LEU:HD11	44:UM:252:ILE:H	1.64	0.61
44:UM:387:VAL:HA	44:UM:390:ARG:CG	2.29	0.61
45:UN:89:ASN:CG	45:UN:119:VAL:HG21	2.21	0.61
45:VB:385:PHE:HE2	45:VB:412:GLU:HB2	1.64	0.61
44:VC:407:TRP:CZ3	45:VD:255:VAL:HA	2.35	0.61
45:VD:65:LEU:HD22	45:VD:90:PHE:CZ	2.36	0.61
44:VE:237:SER:HA	44:VE:320:ARG:NH1	2.16	0.61
44:VG:221:ARG:CZ	45:VH:322:SER:HB3	2.30	0.61
45:VH:86:ARG:NH2	45:VH:87:PRO:HD2	2.16	0.61
44:VI:92:LEU:HG	44:VI:92:LEU:O	1.99	0.61
45:VJ:45:GLU:OE1	45:VJ:46:ARG:HG2	2.01	0.61
45:VJ:121:ARG:NH2	45:VJ:158:GLU:OE2	2.24	0.61
45:VL:77:ARG:NH1	45:VL:82:GLY:O	2.34	0.61
45:VL:309:ARG:O	45:VL:372:THR:OG1	2.18	0.61
44:VM:71:GLU:OE1	44:VM:73:THR:HB	2.01	0.61
45:VN:138:SER:O	45:VN:145:SER:HB3	2.00	0.61
44:WC:434:GLU:O	44:WC:437:ILE:HG12	1.99	0.61
44:WE:167:LEU:HG	44:WE:200:VAL:HB	1.82	0.61
45:WF:263:LEU:HG	45:WF:422:TYR:CD1	2.35	0.61
45:WH:139:LEU:HD23	45:WH:188:SER:OG	2.00	0.61
45:WJ:19:LYS:O	45:WJ:22:GLU:HB2	2.01	0.61
45:WJ:223:GLY:O	45:WJ:226:ASN:N	2.33	0.61
45:WL:287:PRO:O	45:WL:290:THR:HG22	2.00	0.61
45:WL:318:ARG:N	45:WL:364:ALA:O	2.30	0.61
44:WM:316:SER:OG	44:WM:352:LYS:HD2	2.01	0.61
2:0A:34:LEU:HD21	45:MB:42:LEU:HD22	1.82	0.61
8:0G:144:TYR:HA	44:KM:282:TYR:HE2	1.60	0.61
10:0N:245:LYS:CG	44:KK:245:ASP:HB3	2.31	0.61
16:0X:3:ARG:NH1	45:MD:15:GLN:HG3	2.15	0.61
20:1J:302:PHE:HA	44:IK:280:LYS:HE3	1.82	0.61
22:2L:548:ARG:CG	44:BM:365:GLY:HA2	2.29	0.61
26:2R:407:PHE:HD2	44:DG:58:ALA:HB3	1.65	0.61
15:2V:33:PRO:HB3	44:ME:304:LYS:HG3	1.82	0.61
37:5A:140:VAL:O	45:ND:320:ARG:NH1	2.07	0.61
37:5D:62:PRO:CB	45:KN:416:ASN:HA	2.30	0.61
38:5F:157:ARG:NH1	45:NH:37:HIS:HA	2.16	0.61
35:7R:107:PRO:HB3	45:BD:360:GLY:HA3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:584:GLU:OE1	35:7R:584:GLU:N	2.33	0.61
44:AA:332:ILE:HD12	44:AA:351:PHE:CD2	2.35	0.61
45:AB:55:THR:CG2	45:BB:284:LEU:H	2.11	0.61
45:AB:281:TYR:O	45:MB:54:ALA:HB1	2.01	0.61
45:AB:325:GLU:HA	45:AB:328:GLU:HG2	1.83	0.61
45:AD:214:THR:OG1	45:AD:297:LYS:NZ	2.33	0.61
44:AE:93:ILE:HG12	44:AE:117:LEU:HD22	1.82	0.61
45:AH:1:MET:O	45:AH:2:ARG:HG2	2.01	0.61
44:AI:224:TYR:HD1	44:AI:227:LEU:HD12	1.65	0.61
44:AI:224:TYR:CD1	44:AI:227:LEU:HD12	2.35	0.61
44:AK:88:HIS:O	44:AK:91:GLN:HG2	2.01	0.61
44:AK:284:GLU:HG3	44:AK:286:LEU:CD2	2.30	0.61
45:AL:131:GLN:O	45:AL:163:ILE:HG12	2.01	0.61
44:AM:289:ALA:O	44:AM:292:THR:HG22	2.01	0.61
45:AN:167:PHE:CE2	45:AN:233:MET:HG2	2.35	0.61
44:BC:222:PRO:CG	45:BD:324:LYS:HD3	2.30	0.61
45:BH:403:MET:HG3	45:BH:407:GLU:OE1	2.00	0.61
44:BK:389:SER:N	44:BK:429:GLU:OE2	2.34	0.61
45:BN:12:CYS:O	45:BN:16:ILE:HG12	2.00	0.61
45:BN:329:GLN:O	45:BN:333:VAL:HG23	2.00	0.61
45:CB:46:ARG:NH2	44:CC:73:THR:HA	2.15	0.61
45:CB:100:ASN:HB3	45:CB:103:LYS:CB	2.31	0.61
45:CB:235:GLY:HA2	45:CB:318:ARG:NH2	2.16	0.61
44:CC:229:ARG:HA	44:CC:232:ALA:HB3	1.83	0.61
44:CE:426:ALA:HA	44:CE:429:GLU:OE2	1.99	0.61
45:CF:51:TYR:HE1	45:CF:61:PRO:HG3	1.65	0.61
45:CJ:324:LYS:HE3	44:CK:210:TYR:CE1	2.36	0.61
45:CJ:360:GLY:C	45:CJ:361:LEU:HD12	2.21	0.61
45:CL:322:SER:HB3	44:CM:221:ARG:NE	2.16	0.61
45:CN:17:GLY:CA	45:CN:20:PHE:HB3	2.27	0.61
45:DD:252:LYS:HE2	44:DE:101:ASN:ND2	2.14	0.61
45:DD:304:ASP:OD1	45:DD:306:ARG:HG2	2.00	0.61
45:DF:86:ARG:HD2	45:EF:281:TYR:CD1	2.33	0.61
44:DI:239:THR:HB	44:DI:242:LEU:HD12	1.82	0.61
44:DI:346:TRP:CZ3	44:DI:347:CYS:HB2	2.36	0.61
45:DJ:274:THR:HB	45:DJ:282:ARG:HH12	1.66	0.61
44:DM:102:ASN:OD1	44:DM:105:ARG:N	2.29	0.61
44:DM:115:VAL:HG12	44:DM:156:ARG:HD2	1.82	0.61
44:DM:166:LYS:HE2	44:DM:197:HIS:O	2.01	0.61
44:DM:246:GLY:HA2	44:DM:357:TYR:CE2	2.35	0.61
44:DM:294:SER:HA	44:DM:297:GLU:CD	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:315:CYS:HA	44:DM:379:SER:HA	1.82	0.61
45:DN:21:TRP:CH2	45:DN:61:PRO:HB3	2.36	0.61
45:DN:101:TRP:CZ3	45:DN:187:LEU:HB3	2.35	0.61
45:DN:304:ASP:OD2	45:DN:306:ARG:HG2	2.00	0.61
45:EB:65:LEU:HD22	45:EB:90:PHE:CE1	2.36	0.61
45:EB:246:LEU:HD11	44:EC:224:TYR:CE2	2.36	0.61
44:EC:102:ASN:ND2	44:EC:105:ARG:HG3	2.16	0.61
44:EE:117:LEU:O	44:EE:121:ARG:HG2	2.01	0.61
45:EF:246:LEU:HD13	44:EG:224:TYR:CE2	2.36	0.61
44:EG:49:PHE:HD2	44:EG:53:PHE:HB2	1.66	0.61
44:EG:241:SER:HA	44:EG:356:ASN:HD21	1.65	0.61
45:EH:22:GLU:HG2	45:EH:81:PHE:CD1	2.36	0.61
45:EH:118:ASP:O	45:EH:121:ARG:HG2	2.01	0.61
44:EI:340:THR:HG23	44:EI:341:ILE:HG12	1.82	0.61
44:EM:268:MET:HB2	44:EM:379:SER:O	2.01	0.61
45:EN:113:ILE:HD13	45:EN:150:LEU:HD23	1.82	0.61
45:EN:178:THR:CG2	45:EN:180:VAL:HG12	2.31	0.61
44:FC:174:SER:OG	44:FC:207:GLU:HB2	2.01	0.61
45:FF:274:THR:HG22	45:FF:282:ARG:NH1	2.15	0.61
44:FG:194:LEU:HD23	44:FG:194:LEU:O	2.01	0.61
45:FH:286:VAL:CG1	45:FH:326:VAL:HG22	2.25	0.61
44:FK:274:PRO:HD3	44:FK:374:ALA:HA	1.82	0.61
44:FK:284:GLU:CD	44:FK:286:LEU:H	2.03	0.61
45:FL:267:MET:CE	45:FL:371:SER:HB3	2.30	0.61
45:GD:406:MET:O	45:GD:409:THR:OG1	2.14	0.61
44:GE:89:PRO:HD3	44:HE:280:LYS:CE	2.30	0.61
44:GG:118:CYS:SG	44:GG:153:LEU:HD21	2.40	0.61
44:GI:70:LEU:HD11	44:GI:149:LEU:CD2	2.31	0.61
44:GK:251:ASP:N	44:GK:257:THR:HG23	2.12	0.61
44:GK:422:ARG:HH12	44:GK:426:ALA:HB2	1.64	0.61
45:GL:289:LEU:CD1	45:GL:365:VAL:HG23	2.30	0.61
44:GM:74:VAL:O	44:GM:78:VAL:HG23	2.01	0.61
44:GM:135:PHE:CD2	44:GM:166:LYS:HD3	2.36	0.61
45:GN:293:MET:SD	45:GN:367:PHE:HB2	2.40	0.61
44:HA:312:TYR:HB2	44:HA:343:PHE:CD1	2.36	0.61
44:HC:32:PRO:HB3	44:HC:83:TYR:CD1	2.35	0.61
45:HD:60:VAL:HG21	45:HD:86:ARG:CD	2.31	0.61
45:HD:178:THR:HB	45:HD:181:GLU:CG	2.21	0.61
44:HE:10:GLY:O	44:HE:14:ILE:HG13	2.00	0.61
45:HF:268:ILE:O	45:HF:300:MET:HB2	2.00	0.61
44:HG:136:LEU:HD23	44:HG:167:LEU:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:206:ASN:OD1	46:HK:501:GTP:N2	2.33	0.61
44:HK:296:PHE:HE2	44:HK:335:ILE:HG21	1.66	0.61
44:HK:298:PRO:HG3	44:HK:308:ARG:CZ	2.31	0.61
44:HK:311:LYS:HB2	44:HK:382:THR:HG21	1.83	0.61
44:HK:340:THR:HG23	44:HK:341:ILE:HG13	1.83	0.61
45:HN:314:SER:HA	45:HN:350:LYS:HB3	1.82	0.61
45:IB:64:ILE:HG13	45:IB:89:ASN:HD22	1.65	0.61
45:ID:318:ARG:CD	45:ID:357:PRO:HA	2.31	0.61
44:IE:69:ASP:OD1	44:IE:70:LEU:N	2.32	0.61
44:IE:199:ASP:O	44:IE:266:HIS:HB2	2.01	0.61
44:IE:210:TYR:CE1	44:IE:227:LEU:HD11	2.35	0.61
44:IE:244:PHE:CE2	44:IE:358:GLN:HG2	2.35	0.61
45:IF:54:ALA:HB1	44:JC:284:GLU:O	2.01	0.61
44:IK:273:ALA:HB1	44:IK:274:PRO:HA	1.81	0.61
45:IL:377:MET:O	45:IL:380:ARG:HG2	2.01	0.61
45:JB:198:GLU:HG2	45:JB:266:PHE:CE2	2.36	0.61
45:JB:391:ARG:CG	45:JB:393:ALA:HB2	2.31	0.61
45:JD:28:HIS:NE2	45:JD:241:ARG:HD2	2.14	0.61
44:JE:8:HIS:CD2	44:JE:138:PHE:HB2	2.36	0.61
45:JF:60:VAL:CG1	45:JF:86:ARG:HE	2.12	0.61
45:JF:91:VAL:HB	45:JF:112:LEU:HD21	1.81	0.61
44:JG:135:PHE:CZ	44:JG:157:LEU:HD21	2.36	0.61
44:JG:328:VAL:HG11	44:JG:353:VAL:CG2	2.30	0.61
45:JH:289:LEU:HD13	45:JH:363:MET:HE2	1.82	0.61
44:JI:72:PRO:HG2	45:JJ:1:MET:SD	2.41	0.61
45:JJ:36:TYR:CE2	45:JJ:44:LEU:HD11	2.35	0.61
45:JJ:184:ASN:OD1	45:JJ:185:ALA:N	2.34	0.61
44:JK:103:PHE:CE1	44:JK:189:LEU:HB3	2.36	0.61
45:JL:72:THR:HG23	45:JL:73:MET:SD	2.41	0.61
45:JL:97:ALA:HB2	45:JL:143:THR:HG22	1.81	0.61
44:JM:252:ILE:HA	44:JM:255:PHE:CE2	2.35	0.61
44:JM:314:ALA:N	44:JM:380:ASN:O	2.33	0.61
44:KA:261:PRO:HG2	44:KA:313:MET:CE	2.31	0.61
45:KD:418:LEU:HG	45:KD:421:GLU:OE2	2.00	0.61
44:KE:66:VAL:HG11	44:KE:122:ILE:CD1	2.31	0.61
44:KE:71:GLU:OE1	44:KE:73:THR:HB	2.00	0.61
45:KF:204:ASN:O	45:KF:207:LEU:HB2	2.01	0.61
45:KJ:36:TYR:OH	45:KJ:43:GLN:HB2	2.01	0.61
44:KK:3:GLU:HG2	44:KK:64:ARG:NH2	2.16	0.61
44:KM:250:VAL:HG12	44:KM:352:LYS:HE3	1.83	0.61
44:KM:288:VAL:HB	44:KM:373:ARG:CD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:194:LEU:O	44:LA:198:THR:HB	2.01	0.61
44:LA:229:ARG:HG3	44:LA:229:ARG:HH11	1.66	0.61
44:LA:262:TYR:HB3	44:LA:263:PRO:HD2	1.82	0.61
45:LB:67:ASP:OD2	45:LB:72:THR:OG1	2.13	0.61
44:LC:2:ARG:O	44:LC:51:THR:HA	2.01	0.61
45:LD:316:LEU:CD1	45:LD:352:SER:HB2	2.29	0.61
45:LD:374:ILE:O	45:LD:377:MET:HG2	2.01	0.61
44:LE:73:THR:OG1	45:LF:247:ASN:OD1	2.18	0.61
44:LG:42:ILE:HG13	44:LG:43:GLY:N	2.16	0.61
45:LH:21:TRP:CZ2	45:LH:61:PRO:HB3	2.36	0.61
44:LI:47:ASP:HB2	44:LI:50:ASN:OD1	2.01	0.61
44:LK:222:PRO:HG3	45:LL:324:LYS:HE3	1.79	0.61
45:LL:7:ILE:HG23	45:LL:135:ILE:HD13	1.81	0.61
44:LM:119:LEU:HA	44:LM:122:ILE:HD11	1.81	0.61
45:LN:65:LEU:HD22	45:LN:90:PHE:CZ	2.35	0.61
45:LN:99:ASN:HA	45:LN:142:GLY:HA3	1.83	0.61
44:MA:221:ARG:NH2	45:MB:325:GLU:OE1	2.34	0.61
45:MB:330:MET:HG2	45:MB:349:ILE:HG21	1.81	0.61
44:MC:319:TYR:HB3	44:MC:323:VAL:HG21	1.82	0.61
44:MG:175:PRO:HG2	44:MG:176:GLN:OE1	2.01	0.61
45:MH:170:VAL:CG2	45:MH:171:PRO:HD2	2.30	0.61
45:MJ:305:PRO:HB2	45:MJ:310:TYR:OH	2.00	0.61
44:MK:237:SER:OG	44:MK:320:ARG:HD3	2.00	0.61
44:MK:265:ILE:HG23	44:MK:432:TYR:CE1	2.35	0.61
45:ML:30:ILE:HD13	45:ML:51:TYR:CE2	2.36	0.61
44:MM:105:ARG:HA	44:MM:109:THR:HG22	1.83	0.61
45:MN:228:LEU:HD21	45:MN:273:LEU:HD11	1.83	0.61
45:MN:286:VAL:N	45:MN:287:PRO:HD2	2.16	0.61
44:NA:270:SER:HB2	44:NA:378:ILE:HD13	1.81	0.61
44:NA:434:GLU:O	44:NA:437:ILE:HG22	2.01	0.61
45:NB:183:TYR:HA	45:NB:385:PHE:CD1	2.36	0.61
44:NC:251:ASP:HB2	44:NC:253:THR:HG22	1.83	0.61
44:NC:324:VAL:HG11	45:NF:219:THR:HG23	1.82	0.61
44:NE:121:ARG:O	44:NE:121:ARG:HD3	2.00	0.61
45:NF:258:ILE:HG23	45:NF:263:LEU:O	2.01	0.61
44:NG:21:TRP:O	44:NG:25:CYS:N	2.31	0.61
44:NG:174:SER:HB3	44:NG:207:GLU:CG	2.31	0.61
44:NG:195:LEU:HD21	44:NG:264:ARG:CZ	2.31	0.61
45:NJ:159:TYR:HB3	45:NJ:162:ARG:HG2	1.83	0.61
44:NK:209:ILE:HG12	44:NK:302:MET:HE3	1.83	0.61
44:NK:259:LEU:HD23	44:NK:268:MET:SD	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:54:ALA:HB1	45:OL:282:ARG:O	2.00	0.61
44:NM:11:GLN:HA	44:NM:14:ILE:HB	1.82	0.61
44:OA:49:PHE:O	44:OA:53:PHE:N	2.32	0.61
44:OA:217:LEU:HD13	44:OA:277:SER:OG	2.01	0.61
44:OC:72:PRO:HG2	45:OD:1:MET:SD	2.41	0.61
45:OD:215:LEU:HB3	45:OD:217:LEU:HD22	1.80	0.61
45:OF:217:LEU:HD11	45:OF:220:PRO:CB	2.22	0.61
44:OG:185:TYR:HD2	44:OG:408:TYR:HE2	1.49	0.61
44:OI:121:ARG:O	44:OI:125:LEU:HD23	2.00	0.61
44:OI:177:VAL:HG22	45:OJ:331:LEU:CD1	2.31	0.61
45:OJ:20:PHE:CE1	45:OJ:233:MET:HG3	2.36	0.61
45:OJ:103:LYS:HG2	45:OJ:108:GLU:OE2	2.00	0.61
45:OJ:248:SER:CA	45:OJ:252:LYS:HD2	2.28	0.61
45:OL:116:VAL:HA	45:OL:119:VAL:HG12	1.81	0.61
44:OM:2:ARG:HD2	44:OM:242:LEU:O	2.00	0.61
45:ON:309:ARG:CZ	45:ON:342:VAL:HA	2.31	0.61
45:PF:20:PHE:CG	45:PF:25:SER:H	1.57	0.61
44:PG:230:LEU:O	44:PG:234:VAL:HG23	2.01	0.61
44:PG:260:VAL:HG13	44:PG:266:HIS:HB3	1.81	0.61
45:PH:50:TYR:HE2	45:PH:237:THR:HG21	1.65	0.61
44:PI:9:VAL:HG21	44:PI:149:LEU:CB	2.26	0.61
44:PI:433:GLU:O	44:PI:437:ILE:HG23	2.01	0.61
45:PL:304:ASP:OD1	45:PL:305:PRO:HD2	2.01	0.61
44:PM:274:PRO:HD2	44:PM:374:ALA:CB	2.30	0.61
45:PN:252:LYS:O	45:PN:255:VAL:HB	2.00	0.61
45:QB:46:ARG:NH1	44:QC:76:ASP:OD2	2.33	0.61
45:QB:350:LYS:HE3	44:QC:101:ASN:HD21	1.66	0.61
44:QC:31:GLN:HE22	44:QC:33:ASP:CB	2.10	0.61
44:QC:50:ASN:HA	44:QC:53:PHE:O	2.00	0.61
44:QC:202:VAL:HG22	44:QC:268:MET:SD	2.41	0.61
44:QC:311:LYS:HB2	44:QC:382:THR:HG21	1.82	0.61
44:QE:260:VAL:HB	45:QF:397:TRP:HH2	1.65	0.61
45:QF:207:LEU:HD13	45:QF:225:LEU:HD22	1.81	0.61
44:QK:224:TYR:O	44:QK:227:LEU:N	2.34	0.61
45:QL:117:LEU:HA	45:QL:120:VAL:HB	1.83	0.61
45:QL:417:ASP:HA	45:QL:420:SER:OG	2.01	0.61
44:QM:320:ARG:CB	44:QM:356:ASN:HB2	2.28	0.61
44:RE:70:LEU:CD2	44:RE:99:ALA:HB2	2.31	0.61
45:RF:258:ILE:HB	44:RG:407:TRP:CZ2	2.35	0.61
45:RH:187:LEU:HD21	45:RH:408:PHE:CE1	2.35	0.61
45:RH:296:ALA:HB2	45:RH:306:ARG:HE	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:2:ARG:HD3	44:RK:242:LEU:HD22	1.81	0.61
44:RK:82:THR:HG23	44:RK:83:TYR:CD1	2.36	0.61
44:RK:328:VAL:O	44:RK:332:ILE:HG12	2.01	0.61
44:RM:331:SER:O	44:RM:335:ILE:HG12	2.01	0.61
45:RN:286:VAL:H	45:RN:363:MET:HE3	1.66	0.61
44:SA:201:ALA:HB3	44:SA:267:PHE:CD2	2.36	0.61
45:SB:285:THR:HB	45:SB:287:PRO:HD2	1.81	0.61
45:SD:146:GLY:O	45:SD:149:THR:HG22	2.01	0.61
44:SE:321:GLY:O	44:SE:357:TYR:HA	1.99	0.61
44:SI:32:PRO:HB3	44:SI:83:TYR:CE1	2.28	0.61
44:SI:91:GLN:HG3	44:SI:92:LEU:HD12	1.83	0.61
45:SJ:260:PHE:HB3	45:SJ:261:PRO:HD2	1.83	0.61
45:SN:11:GLN:O	45:SN:15:GLN:HG2	2.00	0.61
45:SN:118:ASP:O	45:SN:122:LYS:HG2	1.99	0.61
45:SN:415:MET:SD	45:SN:416:ASN:N	2.74	0.61
44:TA:214:ARG:HA	44:TA:219:ILE:N	2.11	0.61
44:TA:336:LYS:HZ3	44:TA:351:PHE:HE1	1.48	0.61
45:TB:323:THR:HG21	44:TC:224:TYR:N	2.16	0.61
44:TC:332:ILE:HD11	44:TC:351:PHE:CB	2.31	0.61
45:TD:225:LEU:HD12	48:TD:501:GDP:N2	2.15	0.61
44:TE:99:ALA:O	44:TE:105:ARG:HD3	2.00	0.61
44:TG:188:ILE:HD12	44:TG:425:LEU:CD1	2.31	0.61
45:TH:256:ASN:O	44:TI:181:VAL:HG21	2.01	0.61
44:TI:202:VAL:O	44:TI:203:MET:HE2	2.01	0.61
44:TI:259:LEU:CD1	44:TI:316:SER:HB3	2.25	0.61
44:TI:291:ILE:HG13	44:TI:292:THR:N	2.16	0.61
45:TJ:420:SER:HA	45:TJ:423:GLN:HG3	1.83	0.61
44:TK:270:SER:HB2	44:TK:377:MET:O	2.00	0.61
44:TK:325:PRO:O	44:TK:328:VAL:HB	1.99	0.61
45:TL:47:ILE:HG13	45:TL:51:TYR:HB2	1.81	0.61
45:TL:323:THR:HA	45:TL:326:VAL:CG2	2.30	0.61
44:TM:301:MET:SD	44:TM:307:PRO:HG3	2.41	0.61
44:TM:318:MET:O	44:TM:375:VAL:HG23	2.00	0.61
45:TN:4:ILE:HD11	45:TN:133:PHE:HA	1.83	0.61
44:UA:17:GLY:HA2	44:UA:20:CYS:SG	2.40	0.61
44:UA:348:PRO:HD2	45:UB:388:MET:HE2	1.82	0.61
44:UA:439:THR:HG21	45:UB:390:ARG:CD	2.30	0.61
44:UC:104:ALA:H	44:UC:408:TYR:HE2	1.49	0.61
44:UC:183:GLU:OE1	44:UC:183:GLU:N	2.27	0.61
45:UD:193:VAL:HA	45:UD:264:HIS:CE1	2.36	0.61
45:UD:242:PHE:CD1	45:UD:356:ILE:HG21	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:317:PHE:HB3	45:UD:321:MET:CE	2.30	0.61
45:UD:323:THR:HG21	44:UE:224:TYR:CD2	2.36	0.61
45:UD:385:PHE:CE2	45:UD:412:GLU:HB2	2.36	0.61
44:UE:56:THR:HA	44:VC:285:GLN:HB3	1.82	0.61
44:UE:239:THR:HG1	44:UE:243:ARG:HH21	1.46	0.61
45:UF:110:ALA:HA	45:UF:113:ILE:HG22	1.82	0.61
45:UF:174:LYS:CE	45:UF:205:GLU:HB2	2.27	0.61
45:UH:39:ASP:N	45:UH:43:GLN:OE1	2.34	0.61
44:UI:169:PHE:CD1	44:UI:202:VAL:HB	2.35	0.61
45:UJ:67:ASP:OD1	45:UJ:68:LEU:N	2.34	0.61
44:UK:275:ILE:HG13	44:UK:275:ILE:O	2.00	0.61
44:UM:313:MET:CE	44:UM:382:THR:HG22	2.30	0.61
45:UN:241:ARG:HB2	45:UN:241:ARG:NH1	2.16	0.61
45:VB:23:VAL:O	45:VB:27:GLU:N	2.34	0.61
45:VD:294:PHE:CE2	45:VD:333:VAL:HG21	2.36	0.61
44:VE:209:ILE:CA	44:VE:212:ILE:HG22	2.31	0.61
45:VF:342:VAL:N	45:VF:348:ASN:HA	2.16	0.61
44:VG:181:VAL:CG2	45:VH:256:ASN:HB3	2.30	0.61
44:VI:77:GLU:OE2	45:VJ:243:PRO:HG2	2.01	0.61
44:VI:348:PRO:HB2	45:VL:384:GLN:NE2	2.15	0.61
45:VJ:286:VAL:HB	45:VJ:325:GLU:HG2	1.81	0.61
45:VJ:286:VAL:CB	45:VJ:325:GLU:HG2	2.30	0.61
44:VK:105:ARG:O	44:VK:110:ILE:HG12	2.01	0.61
45:VL:20:PHE:O	45:VL:24:ILE:HG12	2.01	0.61
44:VM:88:HIS:HB3	44:VM:91:GLN:CG	2.31	0.61
45:VN:329:GLN:HA	45:VN:332:ASN:HB3	1.83	0.61
44:WC:210:TYR:CD1	44:WC:227:LEU:HD21	2.36	0.61
45:WD:12:CYS:O	45:WD:16:ILE:HG12	2.00	0.61
44:WG:70:LEU:HD13	44:WG:110:ILE:CD1	2.31	0.61
45:WJ:114:ASP:OD1	45:WJ:115:SER:N	2.34	0.61
44:WK:344:VAL:CG2	44:WK:347:CYS:HB2	2.30	0.61
44:WM:169:PHE:HB3	44:WM:204:LEU:HD11	1.83	0.61
44:WM:177:VAL:HG13	45:WN:327:ASP:HB3	1.81	0.61
10:0N:249:LEU:HD23	45:KN:77:ARG:NH2	2.16	0.61
2:1A:36:ARG:CG	45:MF:42:LEU:HD11	2.28	0.61
2:1A:50:PRO:HA	45:MF:41:ASP:OD1	2.01	0.61
8:1G:132:ARG:HB2	45:JB:41:ASP:OD2	2.00	0.61
22:1L:549:LEU:HD22	44:BE:367:ASP:OD1	2.01	0.61
10:1N:158:THR:HG23	45:KJ:227:HIS:HE1	1.63	0.61
15:1V:46:PRO:HG2	44:LI:114:ILE:CD1	2.29	0.61
15:1V:146:PRO:HD3	44:LK:414:GLU:OE1	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2A:36:ARG:HH22	45:MJ:356:ILE:CG1	2.13	0.61
2:2A:71:TYR:OH	44:AI:223:THR:HG21	2.00	0.61
25:2P:355:GLN:HB3	45:TN:360:GLY:HA2	1.83	0.61
26:2R:392:LEU:CD1	45:EH:276:ARG:HH12	2.13	0.61
35:4R:389:ASN:HB3	45:EF:276:ARG:HH12	1.64	0.61
38:5F:145:GLU:O	38:5F:149:ARG:HG3	2.01	0.61
38:5H:33:TYR:CZ	44:NK:89:PRO:HG2	2.36	0.61
35:5R:398:LEU:HG	45:EJ:276:ARG:HH12	1.66	0.61
35:6R:319:PRO:HG3	45:CN:228:LEU:HD23	1.82	0.61
43:8R:247:UNK:O	43:8R:251:UNK:N	2.34	0.61
44:AA:328:VAL:CG1	44:AA:353:VAL:HG21	2.29	0.61
45:AB:280:GLN:HE21	45:AB:281:TYR:HE1	1.47	0.61
44:AE:6:SER:O	44:AE:65:ALA:HA	2.01	0.61
44:AE:311:LYS:HB2	44:AE:382:THR:CG2	2.31	0.61
45:AJ:135:ILE:HG13	45:AJ:152:ILE:HD11	1.82	0.61
44:AK:137:VAL:HG12	44:AK:167:LEU:O	2.01	0.61
44:AM:72:PRO:HB2	45:AN:46:ARG:NH2	2.16	0.61
45:AN:163:ILE:HA	45:AN:197:ASP:OD2	2.01	0.61
44:BA:251:ASP:OD2	44:BA:253:THR:HG22	1.99	0.61
44:BC:205:ASP:OD1	44:BC:303:ALA:HA	2.01	0.61
45:BD:304:ASP:OD1	45:BD:306:ARG:HG2	2.00	0.61
44:BE:145:THR:OG1	46:BE:501:GTP:O3B	2.19	0.61
45:BF:7:ILE:HD11	45:BF:120:VAL:HG22	1.82	0.61
45:BF:251:ARG:C	45:BF:255:VAL:HG23	2.21	0.61
44:BG:221:ARG:HG3	45:BH:322:SER:CB	2.31	0.61
45:BJ:4:ILE:HD11	45:BJ:50:TYR:OH	2.00	0.61
44:BM:213:CYS:O	44:BM:218:ASP:N	2.34	0.61
45:BN:66:MET:HG3	45:BN:116:VAL:CG2	2.28	0.61
44:CA:34:GLY:HA3	44:CA:60:LYS:HE3	1.83	0.61
44:CA:272:TYR:HD1	44:CA:376:CYS:HB2	1.64	0.61
44:CC:156:ARG:HA	44:CC:159:VAL:CG1	2.30	0.61
44:CC:229:ARG:NH1	44:CC:363:VAL:HG11	2.16	0.61
44:CC:287:SER:O	44:CC:291:ILE:HG23	2.00	0.61
45:CD:257:LEU:HA	45:CD:312:THR:HG23	1.81	0.61
44:CE:20:CYS:HA	44:CE:232:ALA:HB1	1.83	0.61
44:CE:88:HIS:ND1	44:CE:89:PRO:HD2	2.15	0.61
44:CG:51:THR:HG22	44:CG:52:PHE:HD1	1.66	0.61
44:CI:104:ALA:HB3	44:CI:411:GLU:HB2	1.82	0.61
45:CL:241:ARG:HG3	45:CL:242:PHE:CD2	2.36	0.61
45:CL:267:MET:O	45:CL:368:VAL:HA	2.00	0.61
44:CM:179:THR:HB	46:CM:501:GTP:H3'	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:254:GLU:OE1	45:CN:99:ASN:ND2	2.34	0.61
45:CN:169:VAL:HA	45:CN:202:ILE:O	2.01	0.61
44:DA:2:ARG:HD2	44:DA:242:LEU:O	2.01	0.61
45:DF:322:SER:HB3	44:DG:221:ARG:CZ	2.31	0.61
44:DG:340:THR:HG23	44:DG:341:ILE:HG13	1.82	0.61
45:DJ:208:TYR:CZ	45:DJ:225:LEU:HD11	2.36	0.61
45:DJ:291:GLN:NE2	45:DJ:292:GLN:HB2	2.15	0.61
45:DL:318:ARG:HD3	45:DL:358:PRO:HD3	1.83	0.61
45:DN:2:ARG:H	45:DN:129:CYS:CB	2.14	0.61
45:DN:11:GLN:HG3	45:DN:72:THR:HB	1.83	0.61
44:EA:240:ALA:HB2	44:EA:320:ARG:HH22	1.65	0.61
44:EC:108:TYR:O	44:EC:112:LYS:HD2	2.01	0.61
44:EE:171:ILE:HG23	44:EE:204:LEU:O	2.01	0.61
45:EF:286:VAL:HB	45:EF:325:GLU:CD	2.20	0.61
44:EG:287:SER:O	44:EG:291:ILE:HG23	2.00	0.61
45:EH:5:VAL:HG22	45:EH:6:HIS:H	1.66	0.61
45:EH:267:MET:HE1	45:EH:299:MET:HB3	1.81	0.61
44:EI:262:TYR:OH	45:EJ:391:ARG:O	2.18	0.61
45:EJ:246:LEU:HG	44:EK:11:GLN:OE1	2.00	0.61
45:EL:87:PRO:HA	45:EL:90:PHE:CE2	2.36	0.61
44:EM:51:THR:OG1	44:EM:243:ARG:HB3	1.99	0.61
45:FB:310:TYR:O	45:FB:342:VAL:HG13	2.01	0.61
45:FB:398:TYR:HB3	45:FB:403:MET:HE1	1.82	0.61
45:FD:285:THR:O	45:FD:289:LEU:HG	2.00	0.61
45:FF:114:ASP:OD1	45:FF:115:SER:N	2.34	0.61
44:FG:326:LYS:CE	45:FJ:219:THR:HB	2.29	0.61
45:FH:169:VAL:HG13	45:FH:202:ILE:O	2.00	0.61
44:FI:11:GLN:HG3	44:FI:74:VAL:HG12	1.83	0.61
45:FJ:323:THR:O	45:FJ:326:VAL:HG12	2.00	0.61
44:FK:91:GLN:HB3	44:FK:121:ARG:HD2	1.83	0.61
45:FL:94:GLN:OE1	45:FL:94:GLN:HA	2.01	0.61
45:FL:237:THR:O	45:FL:237:THR:HG22	2.00	0.61
45:FL:415:MET:O	45:FL:419:VAL:HG23	2.01	0.61
45:FN:233:MET:O	45:FN:237:THR:HG23	2.01	0.61
45:FN:319:GLY:HA2	45:FN:357:PRO:HG3	1.83	0.61
44:GA:64:ARG:NH1	44:GA:128:ASN:OD1	2.22	0.61
44:GA:344:VAL:HG13	44:GA:346:TRP:H	1.66	0.61
45:GB:372:THR:HA	45:GB:422:TYR:CE2	2.34	0.61
45:GD:262:ARG:NH1	45:GD:421:GLU:OE1	2.34	0.61
44:GE:86:LEU:HD23	44:GE:87:PHE:CE2	2.36	0.61
44:GE:88:HIS:ND1	44:GE:90:GLU:HG2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:315:CYS:SG	44:GG:379:SER:HB3	2.41	0.61
44:GG:326:LYS:HD3	45:GJ:212:PHE:CE1	2.36	0.61
45:GH:311:LEU:O	45:GH:345:ILE:HD13	2.01	0.61
44:GI:261:PRO:HA	45:GL:394:PHE:CE2	2.35	0.61
45:GJ:87:PRO:HG2	45:HJ:278:SER:HB2	1.82	0.61
45:GL:229:VAL:O	45:GL:233:MET:N	2.30	0.61
45:GL:268:ILE:CG2	45:GL:368:VAL:HG13	2.29	0.61
45:GN:269:GLY:O	45:GN:367:PHE:N	2.31	0.61
44:HA:91:GLN:HG3	44:HA:121:ARG:HG2	1.83	0.61
44:HC:417:GLU:O	44:HC:420:GLU:HG2	2.01	0.61
44:HE:11:GLN:O	44:HE:15:GLN:HG3	2.00	0.61
44:HK:10:GLY:O	44:HK:14:ILE:HD12	2.00	0.61
44:HK:288:VAL:O	44:HK:292:THR:HG22	2.00	0.61
45:HN:105:HIS:O	45:HN:105:HIS:ND1	2.33	0.61
44:IA:188:ILE:HG23	44:IA:425:LEU:HD12	1.83	0.61
44:IC:353:VAL:HG22	44:IC:355:ILE:CD1	2.30	0.61
44:IK:307:PRO:HB2	44:IK:312:TYR:OH	2.01	0.61
45:IL:121:ARG:HB2	45:IL:121:ARG:NH1	2.15	0.61
45:IL:170:VAL:CG1	45:IL:201:VAL:HB	2.31	0.61
45:IN:19:LYS:O	45:IN:22:GLU:HG2	2.00	0.61
44:JA:245:ASP:OD1	44:JA:246:GLY:N	2.34	0.61
44:JC:21:TRP:CZ3	44:JC:63:PRO:HB3	2.36	0.61
44:JC:196:GLU:HG3	44:JC:197:HIS:ND1	2.16	0.61
45:JD:87:PRO:HD2	45:KD:281:TYR:CG	2.35	0.61
45:JD:200:MET:HG2	45:JD:266:PHE:HB2	1.81	0.61
44:JE:145:THR:HG22	46:JE:501:GTP:O3B	2.00	0.61
44:JG:209:ILE:HG22	44:JG:227:LEU:HG	1.83	0.61
45:JH:289:LEU:CB	45:JH:363:MET:HE2	2.30	0.61
45:JJ:14:ASN:HD21	45:JJ:76:VAL:HB	1.65	0.61
44:JM:4:VAL:HG23	44:JM:134:GLY:O	2.01	0.61
45:JN:105:HIS:NE2	45:JN:150:LEU:HB2	2.16	0.61
45:KB:7:ILE:HD11	45:KB:120:VAL:CG2	2.30	0.61
44:KK:174:SER:HB3	44:KK:177:VAL:O	2.00	0.61
44:KK:178:SER:CB	45:KL:347:ASN:HB3	2.30	0.61
45:KL:67:ASP:OD1	45:KL:143:THR:HG21	2.01	0.61
45:KL:113:ILE:HA	45:KL:116:VAL:CG1	2.30	0.61
45:KN:311:LEU:O	45:KN:348:ASN:ND2	2.34	0.61
45:LB:68:LEU:CD1	45:LB:97:ALA:HB2	2.30	0.61
44:LG:294:SER:HA	44:LG:297:GLU:CG	2.31	0.61
44:LG:363:VAL:HG13	44:LG:364:PRO:HD2	1.82	0.61
44:LI:282:TYR:HD1	44:LI:283:HIS:CE1	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:286:VAL:N	45:LJ:287:PRO:HD2	2.16	0.61
44:LK:89:PRO:HG3	44:MK:280:LYS:HD2	1.83	0.61
44:LM:11:GLN:NE2	45:LN:246:LEU:HA	2.16	0.61
44:LM:133:GLN:HB3	44:LM:252:ILE:CD1	2.30	0.61
45:LN:206:ALA:CB	45:LN:300:MET:HA	2.30	0.61
45:LN:344:TRP:CE3	45:LN:345:ILE:HG23	2.35	0.61
44:MA:141:VAL:CG1	44:MA:172:TYR:HA	2.30	0.61
44:MA:417:GLU:O	44:MA:420:GLU:HG2	2.01	0.61
45:MB:143:THR:O	45:MB:147:MET:HB2	2.00	0.61
45:MB:310:TYR:O	45:MB:342:VAL:HG12	2.01	0.61
45:MB:374:ILE:HD11	45:MB:422:TYR:CZ	2.36	0.61
44:ME:176:GLN:HG3	45:MF:331:LEU:HD21	1.83	0.61
44:MI:288:VAL:O	44:MI:291:ILE:HG12	2.00	0.61
44:MK:189:LEU:HD21	44:MK:413:MET:HE1	1.83	0.61
44:MK:319:TYR:HB2	44:MK:355:ILE:HG22	1.82	0.61
44:MM:208:ALA:HB2	44:MM:304:LYS:HG3	1.83	0.61
44:NA:60:LYS:HE3	44:OA:283:HIS:CE1	2.36	0.61
44:NA:181:VAL:HG12	45:NB:256:ASN:OD1	2.01	0.61
45:NB:215:LEU:CD1	45:NB:273:LEU:HD21	2.30	0.61
45:NF:235:GLY:HA2	45:NF:318:ARG:NH2	2.15	0.61
45:NH:311:LEU:CD1	45:NH:426:GLN:HE21	2.14	0.61
44:NI:340:THR:HG23	44:NI:341:ILE:CD1	2.18	0.61
44:NK:4:VAL:HG13	44:NK:134:GLY:O	2.01	0.61
44:NK:21:TRP:CZ2	44:NK:65:ALA:HB2	2.36	0.61
44:NK:285:GLN:HE22	44:NK:287:SER:CB	2.14	0.61
44:NM:12:GLY:O	44:NM:16:VAL:HG12	2.01	0.61
44:NM:186:ASN:OD1	44:NM:187:SER:N	2.34	0.61
45:NN:68:LEU:HG	45:NN:96:GLY:N	2.15	0.61
45:NN:140:GLY:HA2	45:NN:184:ASN:HD21	1.66	0.61
44:OC:11:GLN:HE22	44:OC:74:VAL:CG1	2.13	0.61
45:OD:130:LEU:HD22	45:OD:162:ARG:HD2	1.81	0.61
45:OD:301:CYS:SG	45:OD:303:ALA:HB3	2.41	0.61
44:OI:403:ALA:HA	45:OJ:260:PHE:HE1	1.60	0.61
45:OJ:66:MET:SD	45:OJ:116:VAL:HG21	2.41	0.61
45:OL:20:PHE:CZ	45:OL:24:ILE:HD11	2.34	0.61
44:OM:55:GLU:HG3	44:OM:57:GLY:H	1.66	0.61
45:ON:20:PHE:O	45:ON:23:VAL:HG12	2.00	0.61
45:ON:54:ALA:HA	45:PN:283:ALA:CB	2.21	0.61
44:PA:367:ASP:OD1	44:PA:368:LEU:HD22	2.01	0.61
45:PB:207:LEU:CD2	45:PB:300:MET:HG3	2.31	0.61
44:PC:87:PHE:HB3	44:PC:92:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:199:ASP:O	44:PE:266:HIS:HB2	2.00	0.61
45:PF:24:ILE:HG21	45:PF:234:SER:CB	2.31	0.61
44:PG:60:LYS:NZ	44:PG:85:GLN:O	2.33	0.61
44:PG:407:TRP:CH2	45:PH:255:VAL:HA	2.35	0.61
45:PH:19:LYS:O	45:PH:22:GLU:N	2.33	0.61
45:PN:164:MET:HB2	45:PN:197:ASP:HB2	1.83	0.61
45:QB:66:MET:SD	45:QB:116:VAL:HG21	2.41	0.61
45:QB:156:ARG:NH1	45:QB:159:TYR:O	2.34	0.61
45:QB:331:LEU:HA	45:QB:334:GLN:HE21	1.65	0.61
45:QD:5:VAL:HG12	45:QD:62:ARG:HD3	1.83	0.61
45:QD:42:LEU:HA	45:QD:45:GLU:CG	2.30	0.61
44:QE:19:ALA:CB	44:QE:228:ASN:HB3	2.31	0.61
44:QI:161:TYR:HB3	44:QI:164:LYS:CG	2.31	0.61
44:QK:205:ASP:OD1	44:QK:303:ALA:HA	2.00	0.61
45:QL:287:PRO:O	45:QL:290:THR:HG22	2.01	0.61
44:QM:171:ILE:HG12	44:QM:204:LEU:CB	2.30	0.61
45:QN:210:ILE:HD11	45:QN:299:MET:O	2.01	0.61
44:RA:188:ILE:CD1	44:RA:395:PHE:HB2	2.30	0.61
45:RB:163:ILE:HD12	45:RB:250:LEU:HD23	1.82	0.61
45:RB:206:ALA:HA	45:RB:209:ASP:CB	2.30	0.61
45:RD:304:ASP:OD1	45:RD:306:ARG:HG2	2.01	0.61
45:RD:323:THR:HG21	44:RE:224:TYR:CZ	2.35	0.61
44:RE:242:LEU:HD11	44:RE:252:ILE:CG1	2.31	0.61
44:RE:271:SER:HB3	44:RE:301:MET:SD	2.40	0.61
45:RJ:13:GLY:O	45:RJ:16:ILE:N	2.34	0.61
45:RJ:189:VAL:HB	45:RJ:415:MET:CE	2.31	0.61
45:RL:155:VAL:HA	45:RL:158:GLU:OE1	2.01	0.61
44:SA:5:ILE:HG13	44:SA:132:LEU:CD1	2.30	0.61
44:SA:9:VAL:HG11	44:SA:150:GLY:HA2	1.82	0.61
45:SB:69:GLU:OE2	45:SB:72:THR:HG22	2.01	0.61
44:SC:141:VAL:CG2	44:SC:187:SER:HA	2.31	0.61
45:SD:51:TYR:CD1	45:SD:61:PRO:HG3	2.36	0.61
44:SG:320:ARG:CD	44:SG:360:PRO:HG3	2.31	0.61
44:SI:22:GLU:O	44:SI:26:LEU:N	2.33	0.61
44:SI:179:THR:HG21	46:SI:501:GTP:H3'	1.83	0.61
45:SJ:7:ILE:HB	45:SJ:135:ILE:CD1	2.30	0.61
45:SJ:242:PHE:CD1	45:SJ:356:ILE:HG13	2.36	0.61
45:SJ:288:GLU:O	45:SJ:291:GLN:HG3	2.00	0.61
44:SK:352:LYS:HD2	44:SK:352:LYS:O	2.01	0.61
44:TA:195:LEU:HD11	44:TA:428:LEU:HD13	1.81	0.61
45:TB:4:ILE:HG22	45:TB:131:GLN:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:42:LEU:CA	45:TD:45:GLU:HG3	2.27	0.61
44:TE:332:ILE:HG23	44:TE:351:PHE:HD2	1.65	0.61
45:TH:47:ILE:HD13	45:TH:59:TYR:CE2	2.36	0.61
45:TH:323:THR:HG21	44:TI:224:TYR:CD2	2.35	0.61
44:TI:3:GLU:O	44:TI:132:LEU:HA	2.00	0.61
44:TI:68:LEU:HD21	44:TI:118:CYS:CB	2.25	0.61
44:TI:90:GLU:HB3	44:UI:280:LYS:CE	2.31	0.61
44:TI:356:ASN:OD1	44:TI:357:TYR:N	2.34	0.61
45:TJ:87:PRO:HD2	45:UJ:281:TYR:CD1	2.36	0.61
45:TJ:187:LEU:HD11	45:TJ:408:PHE:CZ	2.36	0.61
45:TL:42:LEU:HA	45:TL:45:GLU:CG	2.31	0.61
45:TN:3:GLU:CB	45:TN:49:VAL:HA	2.30	0.61
45:TN:290:THR:HG21	45:TN:329:GLN:CD	2.22	0.61
44:UE:3:GLU:N	44:UE:131:GLY:O	2.33	0.61
44:UE:240:ALA:HB1	44:UE:356:ASN:HD22	1.66	0.61
45:UF:27:GLU:O	45:UF:359:LYS:HE3	2.00	0.61
45:UF:68:LEU:HD22	45:UF:147:MET:CE	2.31	0.61
44:UG:200:VAL:HG13	44:UG:268:MET:SD	2.39	0.61
45:UH:1:MET:HE1	45:UH:2:ARG:HD3	1.82	0.61
45:UJ:318:ARG:NH2	45:UJ:356:ILE:O	2.34	0.61
44:UK:294:SER:HA	44:UK:297:GLU:CG	2.24	0.61
45:UL:299:MET:HE1	45:UL:305:PRO:HD3	1.83	0.61
44:UM:203:MET:HG3	44:UM:384:ILE:CD1	2.31	0.61
45:UN:267:MET:N	45:UN:369:GLY:O	2.34	0.61
44:VE:228:ASN:O	44:VE:231:ILE:HG22	2.00	0.61
45:VJ:5:VAL:HA	45:VJ:62:ARG:HH22	1.66	0.61
45:VJ:61:PRO:CG	45:VJ:84:LEU:HB3	2.30	0.61
45:WB:222:TYR:O	45:WB:226:ASN:N	2.19	0.61
45:WB:237:THR:HG23	45:WB:241:ARG:NH1	2.12	0.61
44:WC:73:THR:OG1	45:WD:46:ARG:NH2	2.34	0.61
44:WC:271:SER:HB2	44:WC:377:MET:SD	2.40	0.61
45:WF:7:ILE:HD11	45:WF:120:VAL:HG22	1.82	0.61
44:WI:31:GLN:CG	44:WI:32:PRO:HD2	2.30	0.61
44:WI:348:PRO:HB2	45:WL:384:GLN:OE1	2.01	0.61
45:WJ:65:LEU:HB2	45:WJ:90:PHE:CE1	2.36	0.61
44:WK:39:ASP:OD1	44:WK:40:LYS:N	2.34	0.61
45:WN:135:ILE:HG22	45:WN:137:HIS:ND1	2.16	0.61
45:WN:253:LEU:HD21	45:WN:316:LEU:HD21	1.82	0.61
45:WN:313:ALA:CB	45:WN:349:ILE:HG23	2.31	0.61
1:6H:210:VAL:HG21	45:FD:276:ARG:CZ	2.30	0.60
5:0D:20:LYS:NZ	45:CB:55:THR:HA	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1N:249:LEU:HD13	45:KJ:92:PHE:CD1	2.35	0.60
37:5D:60:GLY:O	45:KN:386:THR:HB	2.00	0.60
37:5D:109:ASN:C	44:NM:280:LYS:HA	2.21	0.60
38:5F:60:TRP:CZ3	45:OF:274:THR:HG21	2.35	0.60
38:5G:28:SER:HB2	44:OG:367:ASP:OD1	2.01	0.60
38:5G:96:TYR:CE2	38:5G:99:ARG:HD2	2.35	0.60
35:5R:107:PRO:CA	45:BL:360:GLY:HA3	2.27	0.60
41:6G:169:GLN:O	41:6G:172:LEU:HG	2.00	0.60
41:6G:207:TYR:HD2	45:VF:306:ARG:HE	1.47	0.60
11:6Q:70:GLY:HA2	11:6Q:151:THR:O	2.01	0.60
35:6R:94:ARG:HH21	44:AM:41:THR:HG21	0.78	0.60
35:7R:82:GLN:OE1	35:7R:87:LYS:HA	2.01	0.60
35:7R:127:ILE:HG21	35:7R:150:ILE:CG1	2.31	0.60
35:7R:310:PRO:HG2	35:7R:313:PRO:HB3	1.82	0.60
45:AF:310:TYR:CE1	45:AF:371:SER:HB3	2.36	0.60
44:AG:425:LEU:O	44:AG:429:GLU:HG3	2.00	0.60
45:AH:31:ASP:HB3	45:AH:32:PRO:HD2	1.82	0.60
45:AH:387:ALA:HA	45:AH:390:ARG:NH1	2.15	0.60
44:AI:183:GLU:HG2	44:AI:184:PRO:HD3	1.83	0.60
44:AI:398:MET:HE2	45:AJ:346:PRO:HD2	1.83	0.60
45:AL:49:VAL:HG21	45:AL:241:ARG:HD3	1.82	0.60
44:AM:56:THR:HA	44:BM:285:GLN:HB3	1.83	0.60
45:AN:86:ARG:HH21	45:AN:87:PRO:HG2	1.65	0.60
45:AN:86:ARG:NE	45:AN:87:PRO:HD2	2.17	0.60
44:BA:294:SER:HA	44:BA:297:GLU:HG3	1.83	0.60
44:BA:311:LYS:O	44:BA:381:SER:HB3	2.00	0.60
45:BD:100:ASN:ND2	45:BD:401:GLU:OE1	2.34	0.60
45:BD:377:MET:O	45:BD:380:ARG:HG2	2.01	0.60
44:BG:55:GLU:HG3	44:BG:57:GLY:N	2.16	0.60
44:BG:319:TYR:CE2	44:BG:328:VAL:HG22	2.36	0.60
44:BK:175:PRO:N	44:BK:390:ARG:HH22	1.99	0.60
44:BK:238:LEU:HG	44:BK:318:MET:HE1	1.82	0.60
44:BM:252:ILE:HA	44:BM:255:PHE:CZ	2.36	0.60
45:BN:68:LEU:HD23	45:BN:97:ALA:HB2	1.82	0.60
44:CA:132:LEU:O	44:CA:164:LYS:NZ	2.34	0.60
45:CB:312:THR:HA	45:CB:348:ASN:OD1	2.02	0.60
44:CC:10:GLY:O	44:CC:14:ILE:N	2.33	0.60
44:CC:316:SER:OG	44:CC:378:ILE:HB	2.01	0.60
44:CE:170:THR:O	44:CE:171:ILE:HD13	2.01	0.60
45:CJ:238:CYS:HB2	45:CJ:318:ARG:NH2	2.16	0.60
44:CK:22:GLU:HG3	44:CK:83:TYR:OH	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:45:GLU:CD	45:CL:46:ARG:HG2	2.21	0.60
45:CL:68:LEU:HD13	45:CL:143:THR:OG1	2.01	0.60
45:CN:47:ILE:HG21	45:CN:59:TYR:CD2	2.36	0.60
45:CN:134:GLN:O	45:CN:135:ILE:HD13	2.02	0.60
44:DA:2:ARG:HB2	44:DA:133:GLN:HG2	1.83	0.60
45:DB:304:ASP:HB3	45:DB:307:HIS:CG	2.35	0.60
45:DD:3:GLU:HG3	45:DD:62:ARG:NH1	2.16	0.60
44:DE:383:ALA:O	44:DE:386:GLU:HG2	2.01	0.60
44:DI:132:LEU:HD22	44:DI:164:LYS:HZ3	1.65	0.60
45:DJ:289:LEU:HD13	45:DJ:365:VAL:HG21	1.83	0.60
45:DL:60:VAL:HG23	45:DL:84:LEU:O	2.01	0.60
44:DM:392:ASP:HB2	44:DM:425:LEU:HD13	1.82	0.60
44:EA:170:THR:O	44:EA:204:LEU:HB2	2.01	0.60
44:EA:183:GLU:N	44:EA:184:PRO:HD2	2.16	0.60
45:EB:10:GLY:HA3	48:EB:501:GDP:O1B	2.01	0.60
45:EB:65:LEU:HB3	45:EB:73:MET:SD	2.41	0.60
45:EB:169:VAL:CG2	45:EB:202:ILE:HB	2.29	0.60
45:EB:399:THR:HA	45:EB:403:MET:HG2	1.83	0.60
44:EC:141:VAL:HG12	44:EC:171:ILE:O	2.00	0.60
45:ED:66:MET:HE3	45:ED:92:PHE:HA	1.82	0.60
45:EF:23:VAL:HG21	45:EF:230:SER:HB3	1.81	0.60
45:EF:206:ALA:HB1	45:EF:210:ILE:CD1	2.29	0.60
45:EF:221:THR:HG22	45:EF:222:TYR:N	2.16	0.60
45:EF:286:VAL:HG11	45:EF:325:GLU:HG2	1.83	0.60
45:EF:374:ILE:O	45:EF:376:GLU:HB3	2.01	0.60
44:EG:313:MET:HG2	44:EG:380:ASN:O	2.00	0.60
45:EJ:245:GLN:C	45:EJ:246:LEU:HD12	2.21	0.60
44:EM:30:ILE:HG23	44:EM:36:MET:HE1	1.82	0.60
44:EM:297:GLU:HB2	44:EM:300:ASN:ND2	2.16	0.60
44:EM:319:TYR:CD2	44:EM:328:VAL:HG22	2.37	0.60
45:EN:136:THR:HG22	45:EN:167:PHE:CD1	2.36	0.60
44:FE:1:MET:C	44:FE:2:ARG:HD3	2.21	0.60
44:FE:145:THR:HG23	46:FE:501:GTP:O1B	2.00	0.60
45:FH:325:GLU:CB	45:FH:327:ASP:HB2	2.31	0.60
44:FI:323:VAL:CG1	44:FI:355:ILE:HG23	2.30	0.60
45:FJ:97:ALA:HB3	45:FJ:143:THR:CB	2.30	0.60
45:FJ:172:SER:HB3	45:FJ:175:VAL:HG12	1.82	0.60
44:FM:217:LEU:HB3	44:FM:219:ILE:HG13	1.83	0.60
45:FN:27:GLU:OE2	45:FN:241:ARG:NH1	2.17	0.60
45:FN:203:ASP:HB2	45:FN:301:CYS:HA	1.82	0.60
45:FN:396:HIS:HA	45:FN:399:THR:OG1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:268:ILE:HD11	45:GB:366:THR:CG2	2.30	0.60
44:GC:271:SER:HB2	44:GC:377:MET:SD	2.40	0.60
45:GF:134:GLN:HA	45:GF:165:GLU:HB2	1.83	0.60
44:GG:172:TYR:HB2	44:GG:203:MET:HE1	1.82	0.60
45:GH:32:PRO:HG3	45:GH:81:PHE:CZ	2.36	0.60
44:GI:56:THR:HG23	44:GI:58:ALA:H	1.66	0.60
44:GK:90:GLU:O	44:GK:90:GLU:HG3	2.00	0.60
45:GL:87:PRO:HD2	45:HL:281:TYR:CG	2.36	0.60
45:GL:117:LEU:HD13	45:GL:154:LYS:CD	2.23	0.60
45:GN:139:LEU:CG	45:GN:185:ALA:HA	2.30	0.60
44:HE:26:LEU:CD1	44:HE:364:PRO:HD3	2.31	0.60
44:HG:4:VAL:HG23	44:HG:134:GLY:O	2.00	0.60
45:HH:51:TYR:CE1	45:HH:61:PRO:HG3	2.35	0.60
45:HJ:99:ASN:CA	45:HJ:142:GLY:HA3	2.32	0.60
45:HJ:166:THR:OG1	45:HJ:198:GLU:O	2.14	0.60
45:HJ:260:PHE:HB3	45:HJ:261:PRO:HD2	1.82	0.60
44:HK:1:MET:O	44:HK:131:GLY:HA3	2.01	0.60
45:HL:330:MET:HA	45:HL:330:MET:CE	2.31	0.60
44:HM:287:SER:O	44:HM:291:ILE:HG23	2.01	0.60
45:HN:3:GLU:OE2	45:HN:127:CYS:HB2	2.01	0.60
45:HN:221:THR:HG23	45:HN:223:GLY:N	2.16	0.60
45:HN:398:TYR:O	45:HN:403:MET:HB3	2.00	0.60
44:IA:210:TYR:CZ	44:IA:227:LEU:HD11	2.36	0.60
44:IA:216:ASN:HB3	44:IA:275:ILE:O	2.00	0.60
44:IA:272:TYR:CD1	44:IA:376:CYS:HB2	2.35	0.60
45:IB:100:ASN:HD22	45:IB:103:LYS:HB2	1.65	0.60
45:IB:313:ALA:O	45:IB:350:LYS:N	2.28	0.60
44:IC:413:MET:HE3	44:IC:417:GLU:HG3	1.83	0.60
44:IE:103:PHE:CE1	44:IE:148:GLY:HA2	2.36	0.60
44:IE:149:LEU:O	44:IE:153:LEU:HD23	2.01	0.60
44:IE:288:VAL:HA	44:IE:291:ILE:CG1	2.26	0.60
45:IF:61:PRO:HD3	45:IF:84:LEU:HB3	1.82	0.60
44:IG:71:GLU:OE2	44:IG:73:THR:OG1	2.11	0.60
44:IG:324:VAL:HG12	44:IG:326:LYS:HG3	1.82	0.60
45:IH:20:PHE:CE1	45:IH:233:MET:HB3	2.36	0.60
45:IJ:287:PRO:HA	45:IJ:329:GLN:OE1	2.01	0.60
44:IK:104:ALA:CB	44:IK:411:GLU:HB2	2.31	0.60
44:IK:254:GLU:HA	44:IK:257:THR:OG1	2.00	0.60
44:IM:102:ASN:OD1	44:IM:104:ALA:N	2.33	0.60
45:JB:158:GLU:HG2	45:JB:159:TYR:CE1	2.36	0.60
45:JD:164:MET:O	45:JD:197:ASP:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:209:ASP:O	45:JF:213:ARG:HG2	2.00	0.60
44:JG:332:ILE:O	44:JG:335:ILE:HG22	2.01	0.60
45:JH:62:ARG:HG3	45:JH:123:GLU:OE2	2.01	0.60
45:JH:221:THR:HG22	45:JH:222:TYR:N	2.16	0.60
45:JH:289:LEU:HD13	45:JH:363:MET:CE	2.30	0.60
44:JK:131:GLY:O	44:JK:133:GLN:NE2	2.27	0.60
44:JK:434:GLU:O	44:JK:437:ILE:HG22	2.00	0.60
45:KB:169:VAL:HG22	45:KB:202:ILE:CB	2.30	0.60
44:KC:7:ILE:HD13	44:KC:66:VAL:HG12	1.83	0.60
45:KD:117:LEU:HD12	45:KD:120:VAL:CG1	2.30	0.60
45:KD:325:GLU:HA	45:KD:328:GLU:CG	2.31	0.60
44:KG:76:ASP:O	44:KG:80:THR:HG22	2.00	0.60
44:KI:401:LYS:HE2	45:KJ:344:TRP:CD1	2.37	0.60
44:KK:104:ALA:HB1	44:KK:413:MET:HG2	1.83	0.60
45:KL:143:THR:HG22	48:KL:501:GDP:O1B	2.00	0.60
44:KM:276:ILE:CD1	44:KM:280:LYS:HD2	2.29	0.60
45:LB:257:LEU:HD23	45:LB:266:PHE:CE2	2.36	0.60
44:LC:105:ARG:HA	44:LC:109:THR:HG22	1.82	0.60
44:LE:288:VAL:HG21	44:LE:327:ASP:HB3	1.83	0.60
44:LE:289:ALA:O	44:LE:292:THR:HG22	2.01	0.60
45:LF:62:ARG:HH12	45:LF:127:CYS:HB3	1.64	0.60
45:LJ:382:ALA:HB2	45:LJ:415:MET:HE2	1.83	0.60
44:LK:147:SER:HB2	44:LK:190:SER:HB3	1.81	0.60
45:LL:295:ASP:OD1	45:LL:297:LYS:N	2.24	0.60
44:LM:202:VAL:HA	44:LM:268:MET:O	2.01	0.60
44:LM:268:MET:HB3	44:LM:380:ASN:HB2	1.83	0.60
44:MA:36:MET:CG	44:MA:37:PRO:HD2	2.31	0.60
45:MD:210:ILE:O	45:MD:214:THR:HG22	2.00	0.60
44:ME:13:GLY:O	44:ME:17:GLY:N	2.30	0.60
44:ME:384:ILE:HG21	44:ME:432:TYR:HE2	1.66	0.60
45:MJ:172:SER:HB2	45:MJ:205:GLU:OE1	2.00	0.60
45:MJ:257:LEU:HD11	45:MJ:314:SER:HB3	1.82	0.60
44:MK:100:ALA:HB3	45:ML:251:ARG:NH1	2.16	0.60
44:MK:288:VAL:CA	44:MK:291:ILE:HG12	2.31	0.60
44:MM:134:GLY:HA3	44:MM:165:SER:OG	2.01	0.60
44:NA:34:GLY:O	44:NA:60:LYS:HA	2.01	0.60
44:NC:21:TRP:CZ3	44:NC:63:PRO:HB3	2.36	0.60
44:NC:248:LEU:HD21	48:NF:501:GDP:N7	2.17	0.60
44:NC:324:VAL:HG21	45:NF:219:THR:CG2	2.31	0.60
44:NC:425:LEU:O	44:NC:429:GLU:HG3	2.01	0.60
45:ND:186:THR:HG21	45:ND:385:PHE:CE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:156:ARG:NH2	45:NF:197:ASP:OD1	2.33	0.60
44:NG:63:PRO:HG2	44:NG:86:LEU:CG	2.29	0.60
44:NK:242:LEU:HD21	44:NK:252:ILE:CG1	2.27	0.60
45:NL:133:PHE:O	45:NL:165:GLU:N	2.27	0.60
45:NL:325:GLU:CA	45:NL:328:GLU:HG2	2.23	0.60
44:NM:67:PHE:C	44:NM:68:LEU:HD12	2.22	0.60
45:NN:42:LEU:HA	45:NN:45:GLU:CD	2.21	0.60
44:OA:66:VAL:HG22	44:OA:68:LEU:CD2	2.30	0.60
45:OB:47:ILE:HG13	45:OB:51:TYR:CD1	2.36	0.60
45:OB:328:GLU:O	45:OB:331:LEU:N	2.34	0.60
44:OC:232:ALA:HA	44:OC:235:ILE:HG22	1.81	0.60
44:OC:257:THR:CA	45:OF:397:TRP:HH2	2.12	0.60
45:OD:116:VAL:O	45:OD:119:VAL:HG12	2.01	0.60
45:OD:398:TYR:HB3	45:OD:403:MET:HB3	1.83	0.60
44:OE:207:GLU:CG	44:OE:304:LYS:HE3	2.30	0.60
44:OE:324:VAL:HG13	44:OE:325:PRO:HD2	1.83	0.60
44:OG:227:LEU:HD12	44:OG:227:LEU:H	1.66	0.60
44:OG:427:ALA:HA	44:OG:430:LYS:NZ	2.15	0.60
44:OG:434:GLU:O	44:OG:437:ILE:HG22	2.00	0.60
45:OH:178:THR:N	45:OH:181:GLU:OE2	2.34	0.60
45:OH:287:PRO:HA	45:OH:329:GLN:NE2	2.16	0.60
45:OH:335:ASN:O	45:OH:338:SER:N	2.34	0.60
45:OL:54:ALA:HB1	45:PL:282:ARG:O	2.01	0.60
45:OL:183:TYR:OH	45:OL:388:MET:HB3	2.01	0.60
44:OM:223:THR:HG23	44:OM:225:THR:HG23	1.83	0.60
45:ON:287:PRO:HG3	45:ON:329:GLN:NE2	2.16	0.60
45:PB:73:MET:O	45:PB:76:VAL:HG12	2.01	0.60
44:PC:88:HIS:O	44:PC:91:GLN:HG2	2.00	0.60
44:PC:276:ILE:CD1	44:PC:281:ALA:HA	2.30	0.60
45:PD:20:PHE:O	45:PD:24:ILE:HG12	2.00	0.60
45:PD:269:GLY:HA3	45:PD:367:PHE:HB3	1.82	0.60
45:PD:270:PHE:HE2	45:PD:273:LEU:HD21	1.66	0.60
44:PE:261:PRO:HG2	44:PE:313:MET:HE2	1.82	0.60
45:PF:282:ARG:HG2	45:PF:283:ALA:H	1.66	0.60
44:PG:174:SER:HB2	44:PG:177:VAL:O	2.00	0.60
45:PH:173:PRO:CG	45:PH:380:ARG:HD3	2.31	0.60
44:PK:11:GLN:HB3	46:PK:501:GTP:O2A	2.01	0.60
44:PK:98:ASP:OD1	44:PK:99:ALA:N	2.34	0.60
45:PL:221:THR:HG23	45:PL:224:ASP:H	1.66	0.60
45:QB:21:TRP:O	45:QB:25:SER:N	2.28	0.60
45:QB:312:THR:HA	45:QB:348:ASN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:312:THR:HG22	45:QB:370:ASN:ND2	2.16	0.60
44:QE:10:GLY:O	44:QE:14:ILE:N	2.27	0.60
45:QF:16:ILE:HA	45:QF:226:ASN:OD1	2.00	0.60
45:QH:247:ASN:ND2	44:QI:74:VAL:HG13	2.16	0.60
44:QI:16:VAL:HA	44:QI:19:ALA:HB3	1.83	0.60
44:RA:70:LEU:HD13	44:RA:110:ILE:HD11	1.82	0.60
44:RA:141:VAL:HG21	44:RA:172:TYR:CE1	2.36	0.60
44:RA:195:LEU:HD11	44:RA:428:LEU:HD13	1.83	0.60
45:RB:251:ARG:HH12	44:RC:100:ALA:HB3	1.63	0.60
44:RC:118:CYS:O	44:RC:122:ILE:HG12	2.00	0.60
45:RD:222:TYR:CD1	45:RD:225:LEU:HD12	2.33	0.60
44:RE:116:ASP:O	44:RE:120:ASP:N	2.26	0.60
45:RH:16:ILE:HD13	45:RH:226:ASN:OD1	2.00	0.60
45:RH:213:ARG:HH12	45:RH:297:LYS:HD2	1.65	0.60
45:RJ:312:THR:HG22	45:RJ:345:ILE:HD13	1.83	0.60
45:RJ:395:LEU:HG	45:RJ:399:THR:CG2	2.29	0.60
44:RK:4:VAL:HG11	44:RK:52:PHE:CE1	2.35	0.60
45:RL:313:ALA:HB2	45:RL:369:GLY:HA3	1.83	0.60
45:RN:48:ASN:O	45:RN:62:ARG:NH1	2.34	0.60
44:SA:316:SER:HB3	44:SA:378:ILE:HB	1.82	0.60
44:SC:326:LYS:HD2	44:SC:327:ASP:N	2.15	0.60
44:SI:282:TYR:OH	44:SI:370:LYS:HG3	2.01	0.60
45:SJ:256:ASN:OD1	44:SK:181:VAL:HG22	2.00	0.60
44:SK:4:VAL:HG11	44:SK:52:PHE:CZ	2.36	0.60
44:SK:11:GLN:HB3	46:SK:501:GTP:PA	2.41	0.60
44:SK:274:PRO:CG	44:SK:286:LEU:HD12	2.30	0.60
45:SL:319:GLY:HA2	45:SL:355:ASP:O	2.00	0.60
44:SM:314:ALA:HA	44:SM:350:GLY:HA3	1.81	0.60
44:TA:148:GLY:O	44:TA:152:LEU:HB2	2.01	0.60
44:TA:296:PHE:CD2	44:TA:335:ILE:HD12	2.35	0.60
45:TB:86:ARG:HD3	45:TB:87:PRO:HD2	1.82	0.60
44:TE:112:LYS:O	44:TE:115:VAL:HG12	2.00	0.60
45:TF:161:ASP:OD2	45:TF:162:ARG:NH2	2.34	0.60
45:TF:193:VAL:HG23	45:TF:264:HIS:NE2	2.17	0.60
45:TF:207:LEU:HA	45:TF:300:MET:HE3	1.82	0.60
44:TK:14:ILE:CD1	44:TK:75:ILE:HD11	2.31	0.60
44:TK:242:LEU:HD11	44:TK:252:ILE:HG13	1.82	0.60
44:TK:344:VAL:HG11	44:TK:346:TRP:NE1	2.16	0.60
45:TL:202:ILE:HD11	45:TL:268:ILE:HD11	1.82	0.60
45:TL:347:ASN:O	44:TM:181:VAL:HG12	2.01	0.60
44:UC:101:ASN:HA	44:UC:144:GLY:CA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:422:ARG:NH1	44:UC:426:ALA:HB2	2.15	0.60
44:UE:93:ILE:HG12	44:UE:117:LEU:HD13	1.83	0.60
45:UF:377:MET:O	45:UF:380:ARG:HG2	2.01	0.60
44:UK:144:GLY:HA3	46:UK:501:GTP:O2G	2.01	0.60
44:UK:311:LYS:HB2	44:UK:382:THR:CG2	2.31	0.60
44:UM:19:ALA:HA	44:UM:22:GLU:OE1	2.00	0.60
44:VA:230:LEU:O	44:VA:234:VAL:HG23	2.01	0.60
45:VB:25:SER:HB3	45:VB:51:TYR:OH	2.01	0.60
44:VE:215:ARG:HA	44:VE:215:ARG:NE	2.16	0.60
45:VF:134:GLN:HA	45:VF:165:GLU:O	2.01	0.60
45:VH:49:VAL:CG2	45:VH:241:ARG:HG2	2.30	0.60
44:VI:261:PRO:HA	45:VL:394:PHE:CD1	2.35	0.60
45:VJ:22:GLU:HG2	45:VJ:81:PHE:CG	2.35	0.60
44:VK:294:SER:HB3	44:VK:300:ASN:ND2	2.16	0.60
45:VL:336:LYS:HE3	45:VL:336:LYS:HA	1.82	0.60
44:VM:395:PHE:HA	44:VM:398:MET:CE	2.29	0.60
44:VM:395:PHE:O	44:VM:399:TYR:N	2.27	0.60
44:WA:149:LEU:HD22	44:WA:153:LEU:CD1	2.31	0.60
45:WB:14:ASN:HB3	45:WB:73:MET:HE1	1.83	0.60
45:WB:209:ASP:OD1	45:WB:213:ARG:HD3	2.01	0.60
44:WE:320:ARG:CG	44:WE:374:ALA:HB3	2.31	0.60
45:WF:253:LEU:HD21	45:WF:316:LEU:CD1	2.30	0.60
45:WF:289:LEU:HD13	45:WF:365:VAL:HG23	1.83	0.60
44:WG:101:ASN:OD1	45:WH:252:LYS:HG3	2.01	0.60
44:WI:296:PHE:HD1	44:WI:377:MET:HE1	1.66	0.60
45:WJ:141:GLY:HA3	48:WJ:502:GDP:PA	2.40	0.60
45:WL:133:PHE:HB2	45:WL:164:MET:SD	2.41	0.60
18:1F:63:VAL:HG23	45:GL:56:GLY:O	2.02	0.60
19:1I:136:ARG:NH1	45:KF:276:ARG:HH22	1.98	0.60
21:1K:190:ASP:O	45:GD:276:ARG:NH2	2.34	0.60
22:1L:892:ARG:NH2	44:CC:279:GLU:HB3	2.14	0.60
10:1N:10:TYR:CD1	45:IJ:53:GLU:HB2	2.36	0.60
32:2I:83:ARG:HD3	44:GE:304:LYS:HE2	1.82	0.60
31:4H:167:LYS:CE	44:MI:44:GLY:HA3	2.31	0.60
35:4R:354:ALA:HB3	44:CE:39:ASP:OD2	2.00	0.60
37:5D:108:ARG:N	44:NM:280:LYS:N	2.28	0.60
11:5Q:60:THR:HG22	11:5Q:62:PRO:HD2	1.82	0.60
35:5R:397:SER:OG	45:EJ:276:ARG:HB2	2.01	0.60
41:6G:179:ILE:CG2	41:6G:180:PRO:HD2	2.31	0.60
41:6G:268:VAL:HG13	44:VA:338:LYS:CB	2.31	0.60
35:6R:11:LEU:H	35:6R:11:LEU:HD23	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:40:GLU:CD	45:LN:77:ARG:HH12	2.04	0.60
35:7R:527:ASP:O	35:7R:531:THR:HG23	2.01	0.60
44:AA:109:THR:HG23	44:AA:110:ILE:HG23	1.83	0.60
45:AD:7:ILE:HG23	45:AD:135:ILE:CD1	2.26	0.60
45:AF:17:GLY:O	45:AF:20:PHE:N	2.34	0.60
45:AF:318:ARG:CZ	45:AF:358:PRO:HD3	2.31	0.60
44:AG:224:TYR:HB3	46:AG:501:GTP:O6	2.01	0.60
45:AH:131:GLN:O	45:AH:163:ILE:HG22	2.01	0.60
44:AM:88:HIS:ND1	44:AM:90:GLU:HG2	2.17	0.60
44:AM:141:VAL:HG11	44:AM:172:TYR:HA	1.82	0.60
44:BA:9:VAL:HG22	44:BA:68:LEU:CB	2.26	0.60
44:BA:175:PRO:HD3	44:BA:390:ARG:NH2	2.16	0.60
44:BA:395:PHE:CE2	44:BA:422:ARG:HD3	2.36	0.60
45:BD:61:PRO:CG	45:BD:84:LEU:HB3	2.30	0.60
45:BD:130:LEU:HD23	45:BD:131:GLN:N	2.16	0.60
44:BE:259:LEU:HD11	44:BE:316:SER:CB	2.31	0.60
45:BL:52:ASN:OD1	45:BL:53:GLU:N	2.31	0.60
44:CA:288:VAL:CG1	44:CA:327:ASP:HB3	2.28	0.60
44:CA:290:GLU:O	44:CA:293:ASN:N	2.33	0.60
45:CB:11:GLN:CG	48:CB:501:GDP:H5'	2.31	0.60
45:CB:25:SER:HG	45:CB:51:TYR:HH	1.39	0.60
44:CC:331:SER:O	44:CC:334:THR:HB	2.01	0.60
44:CG:276:ILE:HG13	44:CG:280:LYS:CE	2.32	0.60
44:CI:67:PHE:CB	44:CI:92:LEU:HG	2.22	0.60
44:CI:81:GLY:O	44:CI:84:ARG:HD2	2.01	0.60
44:CK:188:ILE:HG21	44:CK:395:PHE:CD2	2.36	0.60
44:CM:209:ILE:HA	44:CM:212:ILE:CG1	2.31	0.60
45:CN:8:GLN:NE2	45:CN:14:ASN:HA	2.17	0.60
45:CN:68:LEU:HG	45:CN:96:GLY:HA2	1.81	0.60
45:CN:169:VAL:HG22	45:CN:202:ILE:HG22	1.83	0.60
45:CN:372:THR:HA	45:CN:422:TYR:CE2	2.34	0.60
44:DA:320:ARG:CB	44:DA:356:ASN:HB3	2.31	0.60
45:DD:1:MET:HB2	45:DD:2:ARG:HH11	1.66	0.60
45:DD:231:ALA:O	45:DD:234:SER:OG	2.14	0.60
44:DE:88:HIS:CE1	44:DE:90:GLU:HG2	2.36	0.60
44:DG:104:ALA:HB2	44:DG:408:TYR:HD2	1.66	0.60
44:DG:396:ASP:OD2	44:DG:422:ARG:NH2	2.34	0.60
44:DI:287:SER:HB3	44:DI:290:GLU:HG2	1.82	0.60
44:DK:170:THR:O	44:DK:204:LEU:HB2	2.01	0.60
44:DM:161:TYR:HB3	44:DM:164:LYS:CE	2.31	0.60
44:EA:21:TRP:CZ2	44:EA:65:ALA:HB2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:346:PRO:HD2	44:EE:398:MET:CE	2.31	0.60
44:EE:219:ILE:HG22	44:EE:222:PRO:CD	2.30	0.60
44:EE:318:MET:SD	44:EE:376:CYS:HB3	2.41	0.60
45:EF:18:ALA:HB2	45:EF:76:VAL:CG2	2.31	0.60
45:EF:64:ILE:HG12	45:EF:119:VAL:CG1	2.31	0.60
45:EF:252:LYS:HG3	44:EG:101:ASN:OD1	2.01	0.60
45:EF:311:LEU:O	45:EF:345:ILE:HD13	2.01	0.60
44:EG:77:GLU:OE1	44:EG:80:THR:OG1	2.14	0.60
44:EG:135:PHE:O	44:EG:167:LEU:N	2.24	0.60
44:EI:166:LYS:HG2	44:EI:199:ASP:OD2	2.01	0.60
45:EJ:285:THR:CB	45:EJ:287:PRO:HD2	2.30	0.60
45:EJ:294:PHE:CD2	45:EJ:333:VAL:HG11	2.36	0.60
44:EK:95:GLY:O	44:EK:96:LYS:HE2	2.01	0.60
44:EK:275:ILE:HG23	44:EK:368:LEU:CD1	2.31	0.60
44:EM:111:GLY:O	44:EM:115:VAL:N	2.29	0.60
44:EM:171:ILE:HA	44:EM:204:LEU:HB2	1.82	0.60
45:EN:164:MET:SD	45:EN:166:THR:HG23	2.41	0.60
44:FA:88:HIS:HE1	44:FA:90:GLU:HG2	1.65	0.60
44:FA:176:GLN:HE21	45:FB:331:LEU:HD13	1.66	0.60
45:FB:310:TYR:CE1	45:FB:371:SER:HB2	2.36	0.60
45:FB:318:ARG:NH2	45:FB:364:ALA:HB1	2.16	0.60
44:FC:377:MET:CE	44:FC:379:SER:HB3	2.27	0.60
44:FG:326:LYS:HE2	45:FJ:219:THR:HA	1.82	0.60
45:FH:7:ILE:HG12	45:FH:64:ILE:CB	2.30	0.60
44:FI:66:VAL:HA	44:FI:91:GLN:OE1	2.00	0.60
45:FJ:322:SER:CB	45:FJ:325:GLU:HB2	2.29	0.60
45:FL:50:TYR:CE2	45:FL:241:ARG:HD3	2.37	0.60
45:FL:163:ILE:HG21	45:FL:251:ARG:HG3	1.83	0.60
45:FL:238:CYS:HB2	45:FL:318:ARG:NE	2.16	0.60
44:FM:188:ILE:HD12	44:FM:425:LEU:CD1	2.31	0.60
44:FM:417:GLU:O	44:FM:420:GLU:HG2	2.01	0.60
45:FN:184:ASN:OD1	45:FN:185:ALA:N	2.33	0.60
45:GD:260:PHE:CB	45:GD:263:LEU:HD13	2.23	0.60
45:GD:405:GLU:O	45:GD:409:THR:N	2.32	0.60
44:GE:24:PHE:HE2	44:GE:52:PHE:HE1	1.48	0.60
44:GE:270:SER:O	44:GE:302:MET:HE3	2.01	0.60
45:GF:73:MET:O	45:GF:76:VAL:HG12	2.01	0.60
45:GH:100:ASN:HB3	45:GH:103:LYS:CB	2.31	0.60
44:GI:5:ILE:HG12	44:GI:64:ARG:CD	2.31	0.60
44:GI:63:PRO:HG2	44:GI:86:LEU:HG	1.82	0.60
45:GJ:217:LEU:HD12	45:GJ:217:LEU:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:97:ALA:CB	45:GL:143:THR:HB	2.31	0.60
45:GL:309:ARG:HD3	45:GL:339:SER:O	2.01	0.60
44:GM:153:LEU:O	44:GM:157:LEU:N	2.33	0.60
45:GN:136:THR:HG22	45:GN:167:PHE:HB2	1.82	0.60
44:HE:306:ASP:HB3	44:HE:309:HIS:HD2	1.64	0.60
45:HF:242:PHE:CD1	45:HF:356:ILE:HG13	2.36	0.60
45:HF:253:LEU:O	45:HF:257:LEU:HD13	2.01	0.60
44:HG:30:ILE:HG13	44:HG:30:ILE:O	2.01	0.60
44:HG:319:TYR:HD1	44:HG:375:VAL:HG22	1.67	0.60
45:HH:304:ASP:O	45:HH:373:ALA:HB1	2.01	0.60
45:HH:318:ARG:HD3	45:HH:358:PRO:CG	2.30	0.60
44:HI:98:ASP:OD1	44:HI:99:ALA:N	2.34	0.60
44:HM:205:ASP:OD2	44:HM:304:LYS:N	2.33	0.60
45:HN:103:LYS:HD3	45:HN:401:GLU:OE2	2.00	0.60
45:HN:309:ARG:NH1	45:HN:342:VAL:HA	2.16	0.60
45:IB:2:ARG:H	45:IB:129:CYS:HB3	1.65	0.60
45:IB:119:VAL:HG23	45:IB:122:LYS:CE	2.30	0.60
45:IB:272:PRO:HD2	45:IB:364:ALA:HA	1.82	0.60
45:IB:310:TYR:CD1	45:IB:371:SER:HB2	2.36	0.60
44:IC:319:TYR:O	44:IC:355:ILE:HA	2.01	0.60
44:IG:100:ALA:O	45:IH:255:VAL:HG21	2.00	0.60
44:IG:210:TYR:CB	45:IH:324:LYS:HD2	2.30	0.60
44:IG:313:MET:HB2	44:IG:380:ASN:O	2.01	0.60
45:IH:4:ILE:HD11	45:IH:131:GLN:HB3	1.83	0.60
44:II:210:TYR:CG	45:IJ:324:LYS:HD2	2.36	0.60
44:II:222:PRO:HD2	45:IJ:324:LYS:HD3	1.81	0.60
44:II:346:TRP:HD1	45:IL:391:ARG:NH2	1.98	0.60
45:IJ:20:PHE:N	45:IJ:230:SER:OG	2.33	0.60
45:IJ:107:THR:CG2	45:IJ:401:GLU:HB3	2.31	0.60
45:IL:67:ASP:HB3	45:IL:73:MET:CE	2.31	0.60
45:IL:67:ASP:HB3	45:IL:73:MET:HE3	1.82	0.60
45:IL:110:ALA:O	45:IL:113:ILE:HG22	2.00	0.60
45:IL:150:LEU:O	45:IL:150:LEU:HD23	2.01	0.60
44:IM:98:ASP:OD1	44:IM:99:ALA:N	2.34	0.60
45:IN:6:HIS:ND1	45:IN:8:GLN:OE1	2.34	0.60
45:JH:28:HIS:ND1	45:JH:47:ILE:HG13	2.17	0.60
45:JN:208:TYR:CE1	45:JN:225:LEU:HD11	2.36	0.60
44:KA:237:SER:OG	44:KA:376:CYS:HB2	2.01	0.60
44:KA:276:ILE:CD1	44:KA:280:LYS:HE3	2.30	0.60
44:KA:320:ARG:CG	44:KA:374:ALA:HB3	2.32	0.60
44:KA:363:VAL:CG1	44:KA:364:PRO:HD2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:313:ALA:HB3	45:KB:349:ILE:HG12	1.83	0.60
45:KB:319:GLY:CA	45:KB:357:PRO:HB3	2.31	0.60
44:KE:69:ASP:HB3	44:KE:75:ILE:CD1	2.30	0.60
44:KE:394:LYS:HD2	45:KF:346:PRO:HG2	1.82	0.60
44:KG:174:SER:OG	44:KG:207:GLU:HB2	2.01	0.60
44:KG:287:SER:O	44:KG:290:GLU:HG2	2.01	0.60
44:KM:113:GLU:OE1	44:KM:113:GLU:N	2.25	0.60
45:KN:88:ASP:OD1	45:KN:89:ASN:N	2.34	0.60
45:LD:187:LEU:HD21	45:LD:408:PHE:CD1	2.36	0.60
45:LF:202:ILE:HD13	45:LF:300:MET:HE3	1.82	0.60
45:LJ:8:GLN:HE21	45:LJ:14:ASN:HA	1.66	0.60
45:LL:4:ILE:HG22	45:LL:131:GLN:HB3	1.82	0.60
44:MC:188:ILE:HG13	44:MC:425:LEU:CD1	2.29	0.60
45:MF:100:ASN:HB2	45:MF:397:TRP:NE1	2.10	0.60
45:MF:341:PHE:HB3	45:MF:348:ASN:HD21	1.66	0.60
44:MI:13:GLY:O	44:MI:17:GLY:N	2.28	0.60
45:MJ:229:VAL:HG12	45:MJ:233:MET:HE2	1.83	0.60
44:MK:31:GLN:HG3	44:MK:32:PRO:CD	2.30	0.60
44:MK:100:ALA:HB3	45:ML:251:ARG:HH11	1.67	0.60
44:MK:383:ALA:O	44:MK:386:GLU:HG2	2.01	0.60
45:ML:143:THR:HG23	45:ML:144:GLY:H	1.66	0.60
45:NB:285:THR:OG1	45:NB:288:GLU:OE1	2.11	0.60
44:NC:88:HIS:CD2	44:OC:283:HIS:HB3	2.36	0.60
44:NC:221:ARG:NH1	45:ND:325:GLU:OE2	2.33	0.60
45:ND:200:MET:SD	45:ND:268:ILE:HD13	2.42	0.60
44:NE:171:ILE:HD12	44:NE:204:LEU:HB2	1.83	0.60
44:NE:284:GLU:HG2	44:NE:285:GLN:H	1.66	0.60
44:NG:5:ILE:HD13	44:NG:132:LEU:HD11	1.83	0.60
44:NG:32:PRO:HB3	44:NG:83:TYR:CE1	2.32	0.60
44:NG:70:LEU:HD13	44:NG:110:ILE:HD12	1.84	0.60
44:NG:105:ARG:HG2	44:NG:110:ILE:HG12	1.82	0.60
44:NG:200:VAL:HB	44:NG:268:MET:CE	2.31	0.60
45:NH:11:GLN:OE1	45:NH:72:THR:HG22	2.01	0.60
45:NL:60:VAL:HG12	45:OL:281:TYR:CZ	2.35	0.60
45:NL:210:ILE:O	45:NL:214:THR:HG22	2.01	0.60
44:NM:229:ARG:NH1	44:NM:363:VAL:HG11	2.16	0.60
44:NM:363:VAL:CG1	44:NM:366:GLY:HA2	2.31	0.60
45:NN:113:ILE:O	45:NN:117:LEU:HD23	2.01	0.60
45:NN:200:MET:CE	45:NN:268:ILE:HD13	2.31	0.60
45:OB:150:LEU:HA	45:OB:153:SER:HB2	1.84	0.60
44:OC:224:TYR:HA	44:OC:227:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:312:THR:O	45:OD:370:ASN:N	2.28	0.60
44:OE:295:ALA:HB1	44:OE:377:MET:CE	2.30	0.60
45:OH:1:MET:SD	45:OH:2:ARG:HB2	2.41	0.60
44:OI:13:GLY:HA2	44:OI:16:VAL:HG22	1.83	0.60
45:PB:7:ILE:HB	45:PB:135:ILE:CD1	2.29	0.60
44:PC:6:SER:O	44:PC:7:ILE:HD13	2.01	0.60
44:PC:287:SER:HA	44:PC:373:ARG:CZ	2.31	0.60
44:PC:404:PHE:CE1	45:PD:259:PRO:HA	2.35	0.60
44:PE:257:THR:HG22	45:PH:397:TRP:CH2	2.35	0.60
44:PG:247:ALA:HB2	44:PG:357:TYR:OH	2.00	0.60
45:PJ:2:ARG:HG3	45:PJ:240:LEU:HD21	1.84	0.60
44:PK:75:ILE:HG21	44:PK:94:SER:OG	2.01	0.60
44:PK:189:LEU:HD11	44:PK:418:PHE:CE1	2.36	0.60
45:PL:70:PRO:O	45:PL:74:ASP:HB2	2.01	0.60
45:PL:382:ALA:HB2	45:PL:415:MET:CE	2.31	0.60
44:PM:68:LEU:CG	44:PM:93:ILE:HD13	2.29	0.60
44:QA:257:THR:HA	45:QB:397:TRP:CE2	2.36	0.60
45:QB:191:GLN:OE1	45:QB:191:GLN:N	2.31	0.60
45:QB:310:TYR:O	45:QB:342:VAL:HG12	2.00	0.60
45:QD:70:PRO:O	45:QD:74:ASP:HB2	2.01	0.60
45:QD:178:THR:HG22	45:QD:180:VAL:H	1.66	0.60
45:QD:242:PHE:CG	45:QD:356:ILE:HG13	2.37	0.60
44:QE:333:ALA:HB2	45:QF:174:LYS:NZ	2.16	0.60
44:QI:313:MET:HB2	44:QI:380:ASN:OD1	2.01	0.60
45:QJ:31:ASP:HB3	45:QJ:32:PRO:CD	2.32	0.60
45:QL:258:ILE:HB	44:QM:407:TRP:HH2	1.62	0.60
44:QM:56:THR:OG1	44:RM:283:HIS:HA	2.01	0.60
44:QM:175:PRO:HB2	44:QM:176:GLN:OE1	2.01	0.60
44:QM:262:TYR:HB3	44:QM:263:PRO:HD2	1.83	0.60
45:QN:169:VAL:HA	45:QN:202:ILE:O	2.01	0.60
44:RA:298:PRO:HB3	44:RA:307:PRO:CG	2.32	0.60
45:RB:287:PRO:O	45:RB:290:THR:HG22	2.02	0.60
45:RB:375:GLN:OE1	45:RB:423:GLN:HB3	2.01	0.60
44:RC:54:SER:OG	44:RC:62:VAL:HB	2.02	0.60
45:RD:350:LYS:NZ	45:RD:352:SER:OG	2.34	0.60
44:RE:248:LEU:N	44:RE:355:ILE:HB	2.12	0.60
44:RE:311:LYS:NZ	44:RE:344:VAL:HA	2.16	0.60
44:RG:101:ASN:HB3	44:RG:182:VAL:HG11	1.81	0.60
45:RH:86:ARG:HA	45:SH:281:TYR:CE2	2.35	0.60
45:RH:167:PHE:HE2	45:RH:233:MET:HG2	1.65	0.60
45:RJ:87:PRO:HD2	45:SJ:281:TYR:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:1:MET:CE	44:RK:2:ARG:HH22	2.14	0.60
44:RK:141:VAL:HG12	44:RK:171:ILE:O	2.02	0.60
44:RM:88:HIS:ND1	44:RM:89:PRO:HD2	2.16	0.60
45:RN:101:TRP:CZ2	45:RN:149:THR:HG21	2.36	0.60
44:SA:252:ILE:HA	44:SA:255:PHE:CE2	2.36	0.60
45:SD:178:THR:HB	45:SD:181:GLU:CG	2.31	0.60
45:SF:86:ARG:HG2	45:SF:89:ASN:OD1	2.00	0.60
45:SF:330:MET:SD	45:SF:349:ILE:HD12	2.41	0.60
44:SG:56:THR:O	44:TG:285:GLN:HA	2.01	0.60
44:SG:244:PHE:CZ	44:SG:358:GLN:HG2	2.36	0.60
45:SH:252:LYS:HG2	45:SH:350:LYS:NZ	2.15	0.60
45:SJ:248:SER:CA	45:SJ:252:LYS:HD2	2.30	0.60
45:SJ:253:LEU:HB3	45:SJ:257:LEU:HD23	1.82	0.60
45:SL:398:TYR:HB3	45:SL:403:MET:HE2	1.82	0.60
45:SN:114:ASP:OD1	45:SN:115:SER:N	2.33	0.60
45:TB:326:VAL:O	45:TB:329:GLN:HG3	2.00	0.60
44:TC:329:ASN:ND2	45:TD:175:VAL:HG12	2.17	0.60
45:TD:206:ALA:HB2	45:TD:302:ALA:N	2.17	0.60
45:TD:286:VAL:HA	45:TD:289:LEU:HG	1.83	0.60
44:TG:239:THR:O	44:TG:242:LEU:HB2	2.02	0.60
44:TG:286:LEU:O	44:TG:373:ARG:NE	2.34	0.60
44:TG:311:LYS:HG3	44:TG:342:GLN:CG	2.29	0.60
45:TH:97:ALA:CB	45:TH:143:THR:HB	2.31	0.60
45:TH:318:ARG:NH1	45:TH:358:PRO:HG3	2.16	0.60
44:TI:60:LYS:HE3	44:UI:282:TYR:CB	2.30	0.60
45:TJ:207:LEU:HD21	45:TJ:300:MET:HE1	1.83	0.60
45:TJ:222:TYR:O	45:TJ:226:ASN:ND2	2.26	0.60
45:TJ:411:ALA:O	45:TJ:415:MET:N	2.33	0.60
44:TK:298:PRO:HB3	44:TK:307:PRO:HG2	1.82	0.60
45:TL:378:PHE:HD2	45:TL:419:VAL:HG22	1.65	0.60
45:TN:274:THR:HG21	45:TN:279:GLN:HA	1.82	0.60
44:UC:289:ALA:O	44:UC:292:THR:HG22	2.00	0.60
44:UC:319:TYR:CD2	44:UC:323:VAL:HG11	2.33	0.60
45:UD:183:TYR:CE2	45:UD:394:PHE:HB2	2.36	0.60
45:UD:211:CYS:HA	45:UD:217:LEU:HD12	1.83	0.60
45:UD:234:SER:O	45:UD:241:ARG:NH2	2.34	0.60
45:UD:267:MET:SD	45:UD:300:MET:HB2	2.41	0.60
44:UE:67:PHE:C	44:UE:68:LEU:HD12	2.21	0.60
45:UJ:325:GLU:CA	45:UJ:328:GLU:HG2	2.29	0.60
44:UK:211:ASP:HB3	44:UK:215:ARG:NH1	2.15	0.60
44:UK:335:ILE:HG23	44:UK:341:ILE:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:68:LEU:HD23	45:UL:97:ALA:N	2.16	0.60
45:UL:192:LEU:CD1	45:UL:196:ALA:HB2	2.31	0.60
45:UL:200:MET:HG2	45:UL:266:PHE:HB2	1.83	0.60
44:UM:257:THR:HG22	45:UN:397:TRP:CZ2	2.36	0.60
45:VB:133:PHE:HB2	45:VB:164:MET:SD	2.41	0.60
45:VB:201:VAL:HG23	45:VB:301:CYS:SG	2.40	0.60
45:VD:49:VAL:HG11	45:VD:241:ARG:HD3	1.82	0.60
45:VD:99:ASN:HB3	45:VD:180:VAL:CG1	2.29	0.60
44:VE:102:ASN:HB3	44:VE:105:ARG:HG3	1.83	0.60
44:VE:161:TYR:HB3	44:VE:164:LYS:HZ2	1.66	0.60
44:VI:265:ILE:CD1	44:VI:435:VAL:HG21	2.31	0.60
44:VI:278:ALA:N	44:VI:369:ALA:HB2	2.14	0.60
44:VK:287:SER:O	44:VK:291:ILE:HG23	2.01	0.60
45:VL:68:LEU:O	45:VL:68:LEU:HD12	2.02	0.60
44:WA:91:GLN:O	44:WA:93:ILE:HD12	2.01	0.60
44:WC:163:LYS:HD2	44:WC:163:LYS:O	1.99	0.60
44:WC:211:ASP:HB3	44:WC:215:ARG:NH1	2.16	0.60
44:WC:237:SER:HB2	44:WC:320:ARG:HH11	1.66	0.60
44:WE:66:VAL:HG21	44:WE:122:ILE:HD11	1.82	0.60
44:WE:238:LEU:HD21	44:WE:255:PHE:CE2	2.36	0.60
44:WI:118:CYS:O	44:WI:122:ILE:HG12	2.01	0.60
44:WM:3:GLU:OE1	44:WM:131:GLY:N	2.32	0.60
3:0B:57:SER:OG	44:JE:1:MET:HB2	2.00	0.60
2:1A:36:ARG:NE	45:MF:42:LEU:HD21	2.16	0.60
5:1D:54:PHE:HA	44:EG:221:ARG:HG2	1.83	0.60
20:1J:183:GLN:HA	44:IG:219:ILE:CD1	2.30	0.60
22:1L:488:LYS:HE3	45:BH:32:PRO:HB2	1.82	0.60
23:1M:290:GLU:OE2	40:6F:56:LEU:HG	1.99	0.60
26:1R:299:LEU:HA	45:CD:78:ALA:O	2.00	0.60
12:1S:43:TYR:HB2	44:WC:88:HIS:CE1	2.33	0.60
5:2D:59:GLY:HA3	44:EK:279:GLU:HG3	1.81	0.60
31:2H:203:LYS:CD	44:AC:225:THR:HG21	2.31	0.60
22:2L:436:PHE:CD1	45:CN:320:ARG:HD3	2.36	0.60
26:2R:399:ILE:HD11	45:DH:92:PHE:CE2	2.30	0.60
26:2R:410:TRP:CZ3	44:EG:372:MET:HG2	2.36	0.60
27:2W:232:SER:HB3	35:6R:3:TYR:CE1	2.22	0.60
28:3C:67:LYS:HZ2	44:LA:82:THR:N	1.97	0.60
26:3R:90:PRO:HD2	44:AK:282:TYR:HE1	1.66	0.60
34:4F:57:VAL:HB	45:IJ:245:GLN:HE22	1.65	0.60
37:5B:75:TYR:HD2	45:NF:357:PRO:HD3	1.64	0.60
37:5C:40:VAL:CG1	44:KG:264:ARG:HG3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:164:LYS:H	38:5G:165:PRO:CD	2.14	0.60
39:5K:91:SER:CA	44:JM:430:LYS:HE2	2.31	0.60
35:5R:547:GLU:HG2	35:5R:551:LEU:HD11	1.83	0.60
41:6G:174:GLN:CB	44:VE:337:THR:HG21	2.32	0.60
35:6R:300:PHE:CZ	45:CN:77:ARG:HD3	2.35	0.60
35:7R:222:PRO:C	35:7R:225:THR:HG23	2.22	0.60
44:AC:68:LEU:HD21	44:AC:118:CYS:SG	2.40	0.60
45:AD:3:GLU:OE2	45:AD:128:ASP:N	2.33	0.60
45:AF:87:PRO:HD2	45:BF:281:TYR:HD2	1.66	0.60
45:AH:86:ARG:NH2	45:BH:278:SER:HA	2.16	0.60
44:AI:209:ILE:HG12	44:AI:302:MET:SD	2.41	0.60
44:AK:188:ILE:HD12	44:AK:425:LEU:CD1	2.30	0.60
44:AK:420:GLU:HA	44:AK:423:GLU:HG2	1.83	0.60
44:BC:103:PHE:HB3	44:BC:408:TYR:HE2	1.66	0.60
44:BC:230:LEU:CD1	44:BC:275:ILE:HD13	2.32	0.60
44:BE:102:ASN:CB	44:BE:105:ARG:HG3	2.22	0.60
44:BE:262:TYR:HB3	44:BE:263:PRO:HD2	1.83	0.60
44:BG:256:GLN:HB2	44:BG:260:VAL:HG21	1.83	0.60
44:BI:432:TYR:O	44:BI:435:VAL:HG12	2.01	0.60
45:BJ:241:ARG:HD2	45:BJ:242:PHE:HE1	1.66	0.60
44:BM:277:SER:OG	44:BM:280:LYS:HE2	2.01	0.60
44:CA:208:ALA:O	44:CA:212:ILE:HG12	2.01	0.60
45:CB:9:GLY:HA3	45:CB:66:MET:H	1.66	0.60
45:CB:42:LEU:HD22	45:CB:356:ILE:HD11	1.82	0.60
45:CD:306:ARG:HA	45:CD:340:TYR:HE1	1.67	0.60
45:CF:1:MET:HE1	44:CG:72:PRO:HG2	1.82	0.60
44:CG:286:LEU:N	44:CG:290:GLU:OE2	2.35	0.60
45:CJ:110:ALA:O	45:CJ:113:ILE:HG22	2.01	0.60
45:CJ:117:LEU:CD2	45:CJ:154:LYS:HD3	2.30	0.60
45:CL:350:LYS:NZ	44:CM:181:VAL:HG13	2.15	0.60
45:CL:396:HIS:HA	45:CL:399:THR:HG22	1.82	0.60
44:CM:168:GLY:O	44:CM:202:VAL:N	2.30	0.60
44:DA:70:LEU:HD12	44:DA:99:ALA:H	1.66	0.60
44:DA:99:ALA:CB	44:DA:145:THR:HB	2.31	0.60
44:DA:265:ILE:HG23	44:DA:432:TYR:CE1	2.35	0.60
44:DA:392:ASP:O	44:DA:396:ASP:N	2.30	0.60
45:DB:121:ARG:NH2	45:DB:158:GLU:OE2	2.34	0.60
44:DC:89:PRO:HG2	44:EC:280:LYS:HD2	1.83	0.60
44:DC:175:PRO:HG2	44:DC:304:LYS:HG2	1.82	0.60
45:DF:304:ASP:OD1	45:DF:306:ARG:HG2	2.01	0.60
44:DG:141:VAL:HG23	44:DG:190:SER:OG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:228:ASN:O	44:DG:231:ILE:HG22	2.01	0.60
45:DH:21:TRP:CZ3	45:DH:61:PRO:HB3	2.36	0.60
45:DH:288:GLU:O	45:DH:291:GLN:HG3	2.02	0.60
45:DJ:114:ASP:OD1	45:DJ:115:SER:N	2.31	0.60
44:DK:184:PRO:O	44:DK:188:ILE:HD12	2.01	0.60
44:DM:33:ASP:HB3	44:DM:85:GLN:HE22	1.65	0.60
44:DM:439:THR:HB	45:DN:391:ARG:HD3	1.83	0.60
45:DN:200:MET:HE3	45:DN:268:ILE:HG12	1.82	0.60
45:DN:245:GLN:HB2	45:DN:353:ILE:HB	1.81	0.60
44:EA:91:GLN:CG	44:EA:121:ARG:HD3	2.26	0.60
44:EA:321:GLY:N	44:EA:356:ASN:O	2.21	0.60
45:EB:175:VAL:HG21	45:EB:205:GLU:HB2	1.83	0.60
45:EB:305:PRO:HB3	45:EB:310:TYR:OH	2.01	0.60
44:EE:8:HIS:CE1	44:EE:17:GLY:HA3	2.35	0.60
45:EF:170:VAL:HG21	45:EF:377:MET:HE1	1.82	0.60
44:EG:306:ASP:OD2	44:EG:308:ARG:NH2	2.34	0.60
45:EH:341:PHE:HD2	45:EH:348:ASN:HD21	1.49	0.60
44:EK:254:GLU:HG2	45:EL:98:GLY:CA	2.31	0.60
44:EK:276:ILE:CD1	44:EK:281:ALA:HB1	2.31	0.60
45:EL:113:ILE:HG13	45:EL:116:VAL:CG1	2.31	0.60
44:EM:55:GLU:OE1	44:EM:61:HIS:NE2	2.34	0.60
45:EN:313:ALA:O	45:EN:349:ILE:HA	2.00	0.60
44:FA:6:SER:HA	44:FA:136:LEU:HB2	1.82	0.60
44:FA:371:VAL:HG22	44:FA:373:ARG:H	1.65	0.60
45:FB:15:GLN:OE1	45:FB:15:GLN:HA	2.01	0.60
45:FB:202:ILE:HD11	45:FB:268:ILE:CD1	2.31	0.60
45:FB:263:LEU:HD23	45:FB:311:LEU:CD1	2.30	0.60
45:FB:398:TYR:HB3	45:FB:403:MET:HE2	1.83	0.60
45:FD:318:ARG:HD3	45:FD:358:PRO:CG	2.31	0.60
45:FD:399:THR:HA	45:FD:403:MET:O	2.01	0.60
44:FE:260:VAL:HG13	44:FE:260:VAL:O	2.01	0.60
44:FG:406:HIS:O	44:FG:409:VAL:HG12	2.00	0.60
45:FH:99:ASN:CA	45:FH:142:GLY:HA3	2.29	0.60
44:FI:70:LEU:HD21	44:FI:149:LEU:HD21	1.83	0.60
44:FK:68:LEU:HD22	44:FK:93:ILE:HB	1.81	0.60
45:FN:73:MET:HA	45:FN:76:VAL:HG12	1.84	0.60
44:GE:174:SER:CB	44:GE:207:GLU:HB2	2.31	0.60
45:GH:211:CYS:O	45:GH:215:LEU:HB2	2.01	0.60
44:GI:68:LEU:HD21	44:GI:118:CYS:SG	2.41	0.60
44:GI:221:ARG:NH1	45:GJ:325:GLU:OE1	2.34	0.60
45:GJ:141:GLY:HA3	48:GJ:502:GDP:O3A	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:230:LEU:HD21	44:GK:368:LEU:HD21	1.82	0.60
44:GK:251:ASP:HB2	44:GK:257:THR:HA	1.81	0.60
44:GM:88:HIS:HB3	44:GM:91:GLN:CD	2.22	0.60
45:GN:183:TYR:CE2	45:GN:394:PHE:HB3	2.34	0.60
44:HA:313:MET:CE	44:HA:381:SER:HA	2.32	0.60
45:HB:212:PHE:CE1	45:HB:218:THR:HA	2.31	0.60
45:HB:379:LYS:HG3	45:HB:419:VAL:CG1	2.27	0.60
44:HC:207:GLU:HG3	44:HC:304:LYS:NZ	2.14	0.60
44:HE:191:THR:HA	44:HE:194:LEU:CG	2.30	0.60
44:HG:102:ASN:O	44:HG:105:ARG:N	2.33	0.60
44:HG:288:VAL:HA	44:HG:291:ILE:CG1	2.30	0.60
44:HG:296:PHE:HE2	44:HG:335:ILE:HG21	1.65	0.60
45:HH:49:VAL:HG12	45:HH:50:TYR:CD1	2.36	0.60
45:HH:102:ALA:HB1	45:HH:401:GLU:HB2	1.81	0.60
44:HI:223:THR:O	44:HI:227:LEU:HG	2.02	0.60
45:HJ:330:MET:HB3	45:HJ:349:ILE:CD1	2.31	0.60
44:HK:271:SER:HA	44:HK:302:MET:HE2	1.82	0.60
44:HK:313:MET:HB2	44:HK:380:ASN:O	2.02	0.60
44:HK:372:MET:HG3	44:HK:373:ARG:CD	2.31	0.60
45:HL:309:ARG:NH2	45:HL:341:PHE:HA	2.15	0.60
44:HM:239:THR:HB	44:HM:243:ARG:NH2	2.16	0.60
45:HN:317:PHE:CZ	45:HN:330:MET:HE3	2.36	0.60
44:IA:271:SER:OG	44:IA:301:MET:HA	2.01	0.60
45:IB:268:ILE:HG13	45:IB:300:MET:HE2	1.81	0.60
44:IC:284:GLU:HG3	44:IC:286:LEU:HD22	1.82	0.60
45:ID:377:MET:HA	45:ID:380:ARG:HD2	1.83	0.60
45:IF:310:TYR:HA	45:IF:371:SER:HB2	1.83	0.60
45:IH:113:ILE:O	45:IH:116:VAL:HG12	2.02	0.60
45:IH:215:LEU:HD21	45:IH:273:LEU:HD12	1.81	0.60
44:IK:64:ARG:NH1	44:IK:129:CYS:SG	2.74	0.60
44:IK:98:ASP:OD1	44:IK:99:ALA:N	2.34	0.60
45:IL:49:VAL:HG21	45:IL:241:ARG:CG	2.31	0.60
45:IL:49:VAL:HG21	45:IL:241:ARG:HG2	1.82	0.60
45:IN:325:GLU:HA	45:IN:328:GLU:CG	2.30	0.60
44:JC:181:VAL:HG23	45:JD:348:ASN:HA	1.83	0.60
44:JC:188:ILE:CG2	44:JC:421:ALA:HB1	2.29	0.60
44:JC:212:ILE:CD1	44:JC:300:ASN:HA	2.32	0.60
44:JC:217:LEU:HD21	44:JC:275:ILE:CG2	2.30	0.60
45:JD:86:ARG:HE	45:KD:281:TYR:HB3	1.66	0.60
45:JD:131:GLN:NE2	45:JD:250:LEU:HB2	2.16	0.60
45:JD:133:PHE:H	45:JD:164:MET:HE1	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:141:VAL:CG1	44:JE:187:SER:HA	2.31	0.60
45:JF:8:GLN:HE21	45:JF:14:ASN:HA	1.66	0.60
44:JG:69:ASP:OD1	44:JG:71:GLU:HG2	2.00	0.60
44:JG:356:ASN:OD1	44:JG:357:TYR:N	2.32	0.60
44:JK:220:GLU:HB2	44:JK:221:ARG:NH1	2.15	0.60
45:KB:217:LEU:HD23	45:KB:219:THR:H	1.66	0.60
45:KD:58:ARG:HH12	45:KD:60:VAL:HG22	1.66	0.60
45:KF:73:MET:HE3	45:KF:92:PHE:HB3	1.81	0.60
45:KF:152:ILE:CG2	45:KF:164:MET:HE1	2.27	0.60
45:KF:286:VAL:HG11	45:KF:325:GLU:CG	2.31	0.60
44:KG:90:GLU:HG3	44:KG:121:ARG:HH22	1.66	0.60
44:KI:135:PHE:O	44:KI:136:LEU:HD23	2.01	0.60
44:KI:394:LYS:HD2	45:KJ:346:PRO:HG3	1.83	0.60
45:KJ:173:PRO:CB	45:KJ:384:GLN:HE22	2.15	0.60
44:KK:71:GLU:OE1	44:KK:73:THR:HB	2.00	0.60
44:KK:311:LYS:HB3	44:KK:344:VAL:N	2.17	0.60
45:KL:103:LYS:O	45:KL:108:GLU:HB2	2.00	0.60
44:KM:422:ARG:NH1	44:KM:426:ALA:HB2	2.16	0.60
44:LC:22:GLU:OE2	44:LC:229:ARG:NH1	2.31	0.60
45:LD:4:ILE:HD11	45:LD:50:TYR:CZ	2.35	0.60
44:LE:183:GLU:HG2	44:LE:184:PRO:HD3	1.83	0.60
45:LF:330:MET:O	45:LF:333:VAL:HG12	2.00	0.60
44:LG:169:PHE:HA	44:LG:202:VAL:HG22	1.82	0.60
45:LL:99:ASN:C	45:LL:142:GLY:HA3	2.21	0.60
45:LN:217:LEU:HD11	45:LN:220:PRO:CG	2.31	0.60
45:LN:345:ILE:O	45:LN:345:ILE:HG13	2.00	0.60
45:MB:61:PRO:CG	45:MB:84:LEU:HB3	2.31	0.60
44:MG:170:THR:O	44:MG:171:ILE:HD13	2.01	0.60
44:MG:411:GLU:O	44:MG:411:GLU:HG3	2.01	0.60
45:MJ:130:LEU:HD23	45:MJ:162:ARG:HD3	1.84	0.60
45:MJ:274:THR:HG23	45:MJ:276:ARG:HH22	1.65	0.60
44:NA:323:VAL:CG2	44:NA:355:ILE:HG23	2.32	0.60
44:NC:98:ASP:OD1	44:NC:99:ALA:N	2.34	0.60
44:NE:209:ILE:HG23	44:NE:302:MET:HE1	1.82	0.60
45:NF:178:THR:HG21	45:NF:184:ASN:ND2	2.16	0.60
44:NG:306:ASP:HB3	44:NG:309:HIS:CB	2.31	0.60
45:NH:7:ILE:O	45:NH:135:ILE:HD12	2.01	0.60
44:NI:84:ARG:HG3	44:NI:85:GLN:CD	2.21	0.60
44:NI:203:MET:HG3	44:NI:384:ILE:HD11	1.82	0.60
45:NJ:99:ASN:HA	45:NJ:142:GLY:HA3	1.83	0.60
44:NK:76:ASP:OD1	44:NK:77:GLU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:102:ALA:O	45:OB:106:TYR:N	2.29	0.60
45:OB:324:LYS:HA	45:OB:327:ASP:OD2	2.01	0.60
44:OC:165:SER:C	44:OC:166:LYS:HD3	2.21	0.60
45:OD:149:THR:O	45:OD:153:SER:N	2.28	0.60
45:OD:175:VAL:CG2	45:OD:205:GLU:HB2	2.30	0.60
45:OD:321:MET:HE3	45:OD:363:MET:HG2	1.84	0.60
45:OF:31:ASP:HB3	45:OF:32:PRO:HD2	1.83	0.60
44:OI:208:ALA:CB	44:OI:304:LYS:HE3	2.27	0.60
44:OI:229:ARG:NH1	44:OI:363:VAL:HB	2.15	0.60
44:OK:221:ARG:CZ	45:OL:325:GLU:HB3	2.32	0.60
45:OL:101:TRP:HZ3	45:OL:187:LEU:HB3	1.66	0.60
45:ON:382:ALA:O	45:ON:386:THR:HG23	2.02	0.60
44:PA:135:PHE:O	44:PA:167:LEU:N	2.33	0.60
44:PA:174:SER:HB3	44:PA:207:GLU:HB2	1.83	0.60
45:PB:103:LYS:O	45:PB:108:GLU:HB2	2.01	0.60
44:PC:195:LEU:HD12	44:PC:266:HIS:NE2	2.17	0.60
44:PC:414:GLU:HB2	44:PC:417:GLU:HG2	1.83	0.60
44:PE:224:TYR:CE2	45:PF:323:THR:HG21	2.36	0.60
44:PE:257:THR:HG22	45:PH:397:TRP:CZ2	2.36	0.60
45:PF:61:PRO:HD2	45:PF:84:LEU:O	2.01	0.60
45:PH:260:PHE:HB3	45:PH:261:PRO:HD2	1.83	0.60
44:PI:271:SER:HB2	44:PI:377:MET:SD	2.41	0.60
45:PJ:109:GLY:O	45:PJ:113:ILE:N	2.34	0.60
44:PK:188:ILE:HG23	44:PK:425:LEU:HD11	1.82	0.60
45:PL:251:ARG:HA	45:PL:254:ALA:HB3	1.82	0.60
45:PL:257:LEU:HD11	45:PL:314:SER:CB	2.32	0.60
45:PN:200:MET:HG2	45:PN:268:ILE:HG23	1.83	0.60
45:PN:304:ASP:OD1	45:PN:306:ARG:HG2	2.00	0.60
45:PN:417:ASP:O	45:PN:421:GLU:N	2.28	0.60
44:QA:8:HIS:CD2	44:QA:17:GLY:HA3	2.36	0.60
45:QB:242:PHE:CD2	45:QB:356:ILE:HB	2.37	0.60
44:QC:63:PRO:HD3	44:QC:86:LEU:O	2.01	0.60
44:QC:91:GLN:HB3	44:QC:121:ARG:NH1	2.15	0.60
45:QD:11:GLN:O	45:QD:15:GLN:HG2	2.01	0.60
45:QF:174:LYS:HD2	45:QF:175:VAL:HG13	1.83	0.60
45:QH:122:LYS:NZ	45:QH:123:GLU:HG2	2.16	0.60
45:QH:304:ASP:OD2	45:QH:306:ARG:NH1	2.35	0.60
45:QJ:42:LEU:HD23	45:QJ:356:ILE:HD11	1.83	0.60
45:QJ:316:LEU:HG	45:QJ:352:SER:CB	2.31	0.60
45:QL:299:MET:HG3	45:QL:305:PRO:CG	2.31	0.60
44:QM:121:ARG:NH2	44:QM:124:LYS:HE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:68:LEU:HD12	45:RB:93:GLY:CA	2.23	0.60
45:RB:318:ARG:HH11	45:RB:358:PRO:CG	2.14	0.60
45:RB:342:VAL:HG13	45:RB:345:ILE:HG22	1.81	0.60
44:RC:71:GLU:HB2	44:RC:98:ASP:HB2	1.83	0.60
45:RD:312:THR:HA	45:RD:348:ASN:HB2	1.83	0.60
44:RE:155:GLU:HA	44:RE:197:HIS:CE1	2.36	0.60
45:RF:139:LEU:HD11	45:RF:168:SER:HB3	1.83	0.60
45:RF:207:LEU:O	45:RF:210:ILE:HG22	2.01	0.60
45:RF:416:ASN:O	45:RF:420:SER:N	2.28	0.60
45:RH:102:ALA:HB2	45:RH:398:TYR:HD1	1.64	0.60
45:RH:186:THR:HG23	45:RH:415:MET:SD	2.42	0.60
45:RH:190:HIS:O	45:RH:193:VAL:HG12	2.01	0.60
45:RJ:390:ARG:HH11	45:RJ:391:ARG:HE	1.49	0.60
45:SD:113:ILE:HA	45:SD:116:VAL:HG12	1.83	0.60
44:SE:332:ILE:HD12	44:SE:351:PHE:CE2	2.36	0.60
45:SF:86:ARG:NH2	45:TF:278:SER:HB2	2.16	0.60
45:SF:246:LEU:HG	44:SG:11:GLN:OE1	2.01	0.60
44:SG:274:PRO:CD	44:SG:374:ALA:HA	2.30	0.60
44:SG:332:ILE:HD11	44:SG:351:PHE:CD2	2.36	0.60
44:SG:362:VAL:HG11	44:SG:370:LYS:CA	2.31	0.60
45:SH:30:ILE:HD12	45:SH:59:TYR:CD1	2.34	0.60
44:SI:68:LEU:HD21	44:SI:118:CYS:CB	2.31	0.60
44:SK:212:ILE:CG2	44:SK:216:ASN:HD22	2.13	0.60
44:SM:75:ILE:HG23	44:SM:78:VAL:CG2	2.31	0.60
44:SM:136:LEU:CD2	44:SM:167:LEU:HB2	2.32	0.60
45:SN:66:MET:HB3	45:SN:116:VAL:HG21	1.82	0.60
45:TB:323:THR:HG23	44:TC:223:THR:HA	1.83	0.60
45:TD:323:THR:O	45:TD:326:VAL:HG12	2.02	0.60
45:TF:32:PRO:HG3	45:TF:81:PHE:CE1	2.37	0.60
45:TH:8:GLN:O	45:TH:66:MET:HG2	2.00	0.60
44:TI:206:ASN:HA	44:TI:209:ILE:CD1	2.25	0.60
44:TI:332:ILE:HG23	44:TI:351:PHE:CD2	2.37	0.60
45:TJ:42:LEU:HA	45:TJ:45:GLU:CG	2.31	0.60
44:TK:356:ASN:OD1	44:TK:357:TYR:N	2.34	0.60
45:TL:109:GLY:HA3	45:TL:147:MET:CE	2.32	0.60
45:TL:267:MET:HG2	45:TL:369:GLY:O	2.00	0.60
45:TL:341:PHE:HD2	45:TL:348:ASN:ND2	2.00	0.60
44:TM:213:CYS:O	44:TM:217:LEU:HB2	2.01	0.60
44:TM:268:MET:CE	44:TM:269:LEU:H	2.09	0.60
44:UC:70:LEU:HA	44:UC:95:GLY:CA	2.30	0.60
44:UC:72:PRO:HG3	44:UC:95:GLY:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:171:ILE:HG23	44:UC:204:LEU:O	2.02	0.60
45:UD:2:ARG:HB2	45:UD:131:GLN:OE1	2.00	0.60
45:UD:198:GLU:OE2	45:UD:254:ALA:HB2	2.00	0.60
45:UD:252:LYS:O	45:UD:255:VAL:HB	2.02	0.60
45:UD:255:VAL:HA	44:UE:407:TRP:CH2	2.35	0.60
45:UD:261:PRO:HD3	44:UE:406:HIS:CD2	2.36	0.60
45:UF:185:ALA:O	45:UF:189:VAL:HG23	2.01	0.60
45:UF:198:GLU:OE2	45:UF:254:ALA:HB2	2.01	0.60
45:UH:5:VAL:HG11	45:UH:123:GLU:HB3	1.83	0.60
44:UK:141:VAL:HG22	44:UK:187:SER:HA	1.83	0.60
45:UL:89:ASN:HA	45:UL:119:VAL:HG21	1.83	0.60
45:VB:25:SER:O	45:VB:29:GLY:N	2.26	0.60
44:VC:21:TRP:CZ3	44:VC:63:PRO:HB3	2.35	0.60
45:VF:11:GLN:HA	45:VF:14:ASN:ND2	2.15	0.60
45:VF:309:ARG:HD2	45:VF:340:TYR:O	2.01	0.60
44:VG:89:PRO:HG3	44:WG:280:LYS:HD2	1.82	0.60
44:VG:138:PHE:CD2	44:VG:169:PHE:HB2	2.36	0.60
44:VI:229:ARG:O	44:VI:232:ALA:N	2.34	0.60
44:VM:404:PHE:HE1	45:VN:259:PRO:HA	1.65	0.60
45:VN:287:PRO:O	45:VN:290:THR:HG22	2.00	0.60
44:WA:102:ASN:ND2	44:WA:411:GLU:HG3	2.17	0.60
45:WB:252:LYS:HG2	45:WB:350:LYS:CE	2.31	0.60
45:WB:286:VAL:HG11	45:WB:325:GLU:HG2	1.82	0.60
44:WC:77:GLU:O	44:WC:81:GLY:N	2.33	0.60
44:WC:174:SER:HA	44:WC:205:ASP:OD2	2.00	0.60
44:WC:211:ASP:CB	44:WC:215:ARG:HH12	2.14	0.60
45:WD:398:TYR:HB3	45:WD:403:MET:CB	2.31	0.60
45:WD:423:GLN:OE1	45:WD:426:GLN:NE2	2.33	0.60
44:WI:184:PRO:O	44:WI:188:ILE:HG12	2.01	0.60
45:WL:110:ALA:O	45:WL:113:ILE:HG22	2.00	0.60
44:WM:287:SER:O	44:WM:290:GLU:HG2	2.01	0.60
1:6H:201:ILE:HD12	44:FA:322:ASP:HB3	1.82	0.60
1:6H:381:GLN:CB	44:FK:32:PRO:HG2	2.31	0.60
5:1D:85:VAL:HG12	45:EF:355:ASP:CB	2.31	0.60
18:1F:53:ARG:NH2	45:GL:41:ASP:OD1	2.28	0.60
9:1H:118:GLU:HG2	45:HL:276:ARG:NH1	2.15	0.60
20:1J:140:PHE:CZ	44:IE:369:ALA:HB1	2.36	0.60
20:1J:200:GLY:HA3	44:IG:372:MET:CE	2.28	0.60
13:1T:125:GLY:O	44:AC:337:THR:HG23	2.01	0.60
13:1T:229:THR:HG21	44:MC:264:ARG:HG3	1.83	0.60
10:2N:159:PRO:HD3	45:KB:227:HIS:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3I:243:LYS:HB2	44:GI:215:ARG:NH2	2.14	0.60
34:4F:53:HIS:NE2	45:IJ:362:LYS:HG2	2.16	0.60
37:5D:38:THR:HB	44:KK:265:ILE:HD11	1.81	0.60
38:5G:9:TYR:CD2	38:5G:15:THR:HG21	2.36	0.60
35:5R:131:GLU:HG3	35:5R:141:GLN:HG3	1.83	0.60
35:5R:172:ASN:C	35:5R:173:LEU:HD12	2.22	0.60
35:5R:485:TYR:CE2	35:5R:496:ILE:HG23	2.36	0.60
35:6R:246:GLN:NE2	44:BM:59:GLY:CA	2.64	0.60
35:6R:255:VAL:HG22	44:CM:41:THR:O	2.02	0.60
35:6R:444:ILE:HG23	35:6R:455:VAL:HG22	1.84	0.60
45:AB:4:ILE:HG22	45:AB:132:GLY:N	2.15	0.60
44:AC:20:CYS:HA	44:AC:232:ALA:CB	2.29	0.60
45:AD:201:VAL:HG13	45:AD:301:CYS:SG	2.42	0.60
45:AD:310:TYR:CD1	45:AD:371:SER:HB3	2.36	0.60
44:AE:176:GLN:HG2	44:AE:177:VAL:HG23	1.83	0.60
44:AE:296:PHE:HE2	44:AE:335:ILE:HG21	1.65	0.60
45:AH:238:CYS:HB3	45:AH:318:ARG:CZ	2.31	0.60
44:AK:188:ILE:HD12	44:AK:425:LEU:HD12	1.82	0.60
45:AL:3:GLU:HG3	45:AL:62:ARG:HH22	1.65	0.60
45:AL:143:THR:C	45:AL:147:MET:HE2	2.21	0.60
44:AM:79:ARG:O	44:AM:84:ARG:HG2	2.02	0.60
45:AN:164:MET:H	45:AN:197:ASP:HB2	1.66	0.60
44:BC:51:THR:HG21	44:BC:243:ARG:HB3	1.82	0.60
45:BD:113:ILE:HD12	45:BD:150:LEU:HD13	1.83	0.60
45:BD:170:VAL:CG2	45:BD:171:PRO:HD2	2.31	0.60
45:BD:355:ASP:O	45:BD:356:ILE:HD13	2.00	0.60
44:BE:153:LEU:O	44:BE:157:LEU:HD23	2.01	0.60
44:BE:297:GLU:OE2	44:BE:300:ASN:N	2.34	0.60
45:BF:323:THR:HG22	45:BF:327:ASP:OD2	2.02	0.60
44:BG:398:MET:HE1	45:BH:345:ILE:HG13	1.83	0.60
44:BI:141:VAL:CG2	44:BI:187:SER:HA	2.30	0.60
45:BJ:248:SER:CB	45:BJ:252:LYS:HD2	2.32	0.60
44:BK:53:PHE:HE2	44:BK:63:PRO:HG3	1.67	0.60
44:BK:431:ASP:O	44:BK:435:VAL:HG23	2.01	0.60
45:BL:107:THR:HG23	45:BL:108:GLU:N	2.17	0.60
44:CC:50:ASN:HA	44:CC:53:PHE:O	2.01	0.60
45:CD:86:ARG:HD3	45:DD:281:TYR:HB3	1.83	0.60
45:CD:261:PRO:HD3	44:CE:406:HIS:CD2	2.36	0.60
44:CE:350:GLY:HA2	45:CF:179:VAL:HG23	1.84	0.60
44:CG:258:ASN:HD21	44:CG:352:LYS:CE	2.14	0.60
45:CH:213:ARG:NH1	45:CH:214:THR:OG1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:255:VAL:HA	44:CI:407:TRP:CZ3	2.36	0.60
45:CJ:193:VAL:HG12	45:CJ:264:HIS:CE1	2.36	0.60
44:CK:10:GLY:O	44:CK:14:ILE:HG13	2.02	0.60
45:CL:99:ASN:HA	45:CL:142:GLY:HA3	1.83	0.60
45:CL:178:THR:CG2	45:CL:180:VAL:HG12	2.31	0.60
45:CL:230:SER:HA	45:CL:233:MET:HB2	1.82	0.60
45:CN:268:ILE:HA	45:CN:368:VAL:HG22	1.84	0.60
44:DA:237:SER:HA	44:DA:320:ARG:NH1	2.17	0.60
45:DD:406:MET:O	45:DD:409:THR:OG1	2.17	0.60
44:DE:419:SER:O	44:DE:423:GLU:HG3	2.01	0.60
45:DL:146:GLY:HA2	45:DL:149:THR:HG22	1.82	0.60
44:DM:68:LEU:HD21	44:DM:118:CYS:SG	2.41	0.60
44:DM:387:VAL:HG12	44:DM:390:ARG:NH1	2.16	0.60
45:DN:116:VAL:O	45:DN:119:VAL:HG12	2.01	0.60
45:EB:203:ASP:HB2	45:EB:206:ALA:CB	2.31	0.60
44:EC:133:GLN:CB	44:EC:252:ILE:HD12	2.31	0.60
44:EG:157:LEU:O	44:EG:157:LEU:HD23	2.00	0.60
45:EH:192:LEU:CD1	45:EH:196:ALA:HB2	2.31	0.60
45:EH:313:ALA:O	45:EH:349:ILE:HA	2.02	0.60
45:EH:318:ARG:HD3	45:EH:358:PRO:CD	2.31	0.60
44:EI:64:ARG:NH1	44:EI:129:CYS:SG	2.75	0.60
44:EI:214:ARG:HH11	44:EI:214:ARG:HG2	1.66	0.60
45:EJ:295:ASP:OD1	45:EJ:296:ALA:N	2.34	0.60
44:EK:129:CYS:HB2	44:EK:132:LEU:CD1	2.28	0.60
44:EK:141:VAL:HG23	44:EK:190:SER:OG	2.00	0.60
44:EK:276:ILE:HD12	44:EK:281:ALA:CA	2.31	0.60
45:EL:257:LEU:HD21	45:EL:368:VAL:HG12	1.84	0.60
44:EM:244:PHE:HB2	44:EM:356:ASN:HD21	1.67	0.60
44:FA:248:LEU:HD13	48:FD:502:GDP:H8	1.65	0.60
44:FC:112:LYS:O	44:FC:115:VAL:HG12	2.02	0.60
45:FD:318:ARG:HD3	45:FD:358:PRO:HG3	1.83	0.60
45:FF:4:ILE:HG23	45:FF:132:GLY:O	2.01	0.60
44:FG:11:GLN:CG	44:FG:74:VAL:HG11	2.27	0.60
44:FI:264:ARG:HG2	44:FI:264:ARG:HH11	1.66	0.60
44:FI:301:MET:HA	44:FI:301:MET:CE	2.32	0.60
44:FK:222:PRO:O	45:FL:322:SER:HB2	2.01	0.60
45:FL:323:THR:O	45:FL:327:ASP:N	2.34	0.60
45:FN:11:GLN:HA	45:FN:14:ASN:HB2	1.83	0.60
45:GB:134:GLN:CB	45:GB:165:GLU:HB2	2.32	0.60
45:GD:13:GLY:HA2	45:GD:16:ILE:HB	1.83	0.60
45:GD:248:SER:OG	45:GD:252:LYS:HD2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:73:MET:CA	45:GF:76:VAL:HG12	2.32	0.60
45:GH:86:ARG:HH21	45:GH:87:PRO:CG	2.13	0.60
45:GJ:69:GLU:OE1	45:GJ:71:GLY:N	2.34	0.60
44:GK:251:ASP:HB2	44:GK:257:THR:CA	2.31	0.60
44:GK:313:MET:CE	44:GK:382:THR:HG22	2.32	0.60
45:GL:117:LEU:CD1	45:GL:154:LYS:HD3	2.25	0.60
44:GM:15:GLN:O	44:GM:18:ASN:HB2	2.01	0.60
44:GM:174:SER:OG	44:GM:207:GLU:HB2	2.01	0.60
45:GN:12:CYS:HB3	45:GN:138:SER:HB2	1.83	0.60
45:HB:30:ILE:HD11	45:HB:36:TYR:HD1	1.66	0.60
45:HB:73:MET:HA	45:HB:76:VAL:HG12	1.82	0.60
45:HB:284:LEU:HB2	45:HB:362:LYS:HZ3	1.65	0.60
45:HD:253:LEU:O	45:HD:257:LEU:HD13	2.01	0.60
44:HE:404:PHE:CZ	45:HF:259:PRO:HA	2.36	0.60
45:HF:8:GLN:HE21	45:HF:65:LEU:HG	1.67	0.60
44:HG:262:TYR:OH	45:HJ:391:ARG:O	2.13	0.60
44:HI:175:PRO:HB3	44:HI:390:ARG:NE	2.15	0.60
44:HI:209:ILE:HD11	44:HI:302:MET:HE1	1.82	0.60
44:HM:213:CYS:HA	44:HM:217:LEU:HB2	1.83	0.60
45:IB:156:ARG:HD2	45:IB:164:MET:CE	2.31	0.60
45:IB:171:PRO:HG3	45:IB:181:GLU:HB3	1.84	0.60
45:ID:193:VAL:HA	45:ID:264:HIS:CE1	2.35	0.60
44:IE:298:PRO:HG3	44:IE:308:ARG:NH1	2.15	0.60
44:IG:23:LEU:CD2	44:IG:233:GLN:HA	2.32	0.60
45:IH:396:HIS:HA	45:IH:399:THR:HG22	1.82	0.60
44:IK:26:LEU:O	44:IK:26:LEU:HD23	2.01	0.60
45:IN:1:MET:CE	45:IN:129:CYS:HB3	2.30	0.60
45:IN:267:MET:HE3	45:IN:301:CYS:SG	2.41	0.60
44:JA:259:LEU:HD22	44:JA:314:ALA:HB1	1.82	0.60
44:JC:404:PHE:CD1	45:JD:259:PRO:HA	2.36	0.60
45:JD:60:VAL:HG21	45:JD:86:ARG:HG2	1.83	0.60
45:JD:135:ILE:CG1	45:JD:152:ILE:HD11	2.24	0.60
45:JF:375:GLN:OE1	45:JF:379:LYS:NZ	2.32	0.60
44:JG:209:ILE:CG2	44:JG:227:LEU:HG	2.31	0.60
45:JH:7:ILE:HB	45:JH:135:ILE:HD12	1.84	0.60
44:JI:105:ARG:O	44:JI:110:ILE:HG22	2.01	0.60
44:JI:340:THR:CG2	44:JI:341:ILE:HD12	2.28	0.60
45:JL:139:LEU:CD1	45:JL:168:SER:HB3	2.28	0.60
45:JN:236:VAL:HG12	45:JN:250:LEU:HD21	1.82	0.60
44:KA:329:ASN:HD21	45:KD:175:VAL:HG12	1.66	0.60
45:KB:200:MET:CE	45:KB:266:PHE:HB2	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:203:ASP:HB3	45:KB:205:GLU:CD	2.21	0.60
45:KB:211:CYS:CB	45:KB:215:LEU:HD12	2.31	0.60
44:KC:5:ILE:HG23	44:KC:125:LEU:HD23	1.84	0.60
44:KE:203:MET:O	44:KE:204:LEU:HD22	2.01	0.60
44:KI:28:HIS:CE1	44:KI:49:PHE:HA	2.36	0.60
45:KJ:304:ASP:OD2	45:KJ:306:ARG:NH2	2.33	0.60
44:KK:68:LEU:CD2	44:KK:93:ILE:HB	2.30	0.60
44:KM:165:SER:HA	44:KM:199:ASP:OD2	2.01	0.60
44:KM:169:PHE:CE1	44:KM:202:VAL:HG11	2.36	0.60
45:KN:268:ILE:HG22	45:KN:368:VAL:HA	1.84	0.60
44:LA:108:TYR:HE2	44:LA:413:MET:HE2	1.66	0.60
44:LC:349:THR:O	45:LF:179:VAL:HG12	2.02	0.60
45:LD:289:LEU:CD2	45:LD:363:MET:HB3	2.31	0.60
44:LE:7:ILE:HD12	44:LE:122:ILE:HD11	1.83	0.60
45:LF:245:GLN:C	45:LF:246:LEU:HD12	2.22	0.60
44:LG:247:ALA:HB1	45:LJ:222:TYR:HD2	1.66	0.60
45:LJ:241:ARG:HG2	45:LJ:242:PHE:CD1	2.36	0.60
44:LM:118:CYS:O	44:LM:122:ILE:HG12	2.01	0.60
45:LN:258:ILE:HG12	45:LN:266:PHE:CZ	2.36	0.60
45:LN:311:LEU:HD23	45:LN:372:THR:HG23	1.82	0.60
45:MB:248:SER:CB	45:MB:252:LYS:HD2	2.31	0.60
44:MC:172:TYR:HB2	44:MC:203:MET:HE1	1.84	0.60
45:MD:65:LEU:HD22	45:MD:90:PHE:CE1	2.36	0.60
44:ME:3:GLU:OE1	44:ME:3:GLU:N	2.35	0.60
44:MG:340:THR:HG23	44:MG:341:ILE:HG12	1.83	0.60
45:MH:7:ILE:HB	45:MH:135:ILE:CD1	2.31	0.60
44:MM:344:VAL:HG11	44:MM:346:TRP:NE1	2.16	0.60
45:ND:106:TYR:CE2	45:ND:403:MET:HB3	2.36	0.60
45:NF:2:ARG:HH21	45:NF:240:LEU:HA	1.67	0.60
45:NF:135:ILE:HG13	45:NF:164:MET:HE1	1.84	0.60
44:NG:332:ILE:HG23	44:NG:351:PHE:CD2	2.37	0.60
44:NI:326:LYS:HG3	44:NI:327:ASP:N	2.15	0.60
45:NN:258:ILE:HG13	45:NN:266:PHE:CZ	2.34	0.60
44:OC:326:LYS:HZ2	45:OF:220:PRO:HG2	1.66	0.60
45:OD:3:GLU:HG3	45:OD:62:ARG:NH1	2.17	0.60
45:OD:34:GLY:CA	45:OD:58:ARG:HG3	2.31	0.60
45:OD:117:LEU:HD11	45:OD:158:GLU:OE2	2.01	0.60
45:OD:208:TYR:HA	45:OD:211:CYS:SG	2.42	0.60
45:OD:414:ASN:OD1	45:OD:415:MET:N	2.33	0.60
44:OG:23:LEU:HD21	44:OG:236:SER:CB	2.31	0.60
45:OH:200:MET:CE	45:OH:200:MET:HA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:234:VAL:HG13	44:OI:376:CYS:SG	2.41	0.60
44:OK:258:ASN:OD1	45:ON:179:VAL:HG12	2.01	0.60
44:OK:322:ASP:OD1	44:OK:373:ARG:NH1	2.34	0.60
45:OL:202:ILE:HD11	45:OL:268:ILE:HD11	1.82	0.60
45:OL:248:SER:HA	45:OL:252:LYS:HD3	1.81	0.60
45:ON:270:PHE:CE2	45:ON:273:LEU:HD21	2.36	0.60
44:PA:6:SER:HA	44:PA:136:LEU:O	2.02	0.60
44:PA:72:PRO:HG2	45:PB:1:MET:CE	2.31	0.60
44:PA:242:LEU:HD11	44:PA:252:ILE:HG12	1.82	0.60
44:PC:71:GLU:OE2	44:PC:72:PRO:HD2	2.01	0.60
45:PD:310:TYR:HA	45:PD:371:SER:CB	2.31	0.60
44:PE:4:VAL:HG11	44:PE:252:ILE:CD1	2.31	0.60
45:PF:206:ALA:HB3	45:PF:300:MET:O	2.01	0.60
45:PF:214:THR:O	45:PF:216:LYS:HG3	2.01	0.60
44:PG:19:ALA:CB	44:PG:228:ASN:HB3	2.31	0.60
45:PH:267:MET:N	45:PH:267:MET:SD	2.74	0.60
44:PI:115:VAL:HG21	44:PI:152:LEU:HG	1.83	0.60
45:PJ:110:ALA:HA	45:PJ:113:ILE:CG2	2.31	0.60
45:PJ:242:PHE:HE2	45:PJ:356:ILE:HG21	1.67	0.60
45:PJ:269:GLY:HA2	45:PJ:300:MET:CG	2.31	0.60
44:PK:51:THR:HG22	44:PK:52:PHE:CD1	2.35	0.60
44:PK:210:TYR:CD1	45:PL:324:LYS:HD2	2.36	0.60
44:QA:30:ILE:HG12	44:QA:36:MET:HE3	1.82	0.60
44:QA:175:PRO:HD2	44:QA:207:GLU:OE1	2.01	0.60
44:QA:224:TYR:HD1	44:QA:227:LEU:HD12	1.65	0.60
45:QB:143:THR:HG23	45:QB:144:GLY:N	2.16	0.60
44:QC:259:LEU:HD21	44:QC:316:SER:HB3	1.81	0.60
44:QC:276:ILE:HD11	44:QC:280:LYS:HG3	1.84	0.60
45:QD:107:THR:HG23	45:QD:108:GLU:N	2.16	0.60
45:QF:255:VAL:HA	44:QG:407:TRP:CZ3	2.36	0.60
44:QG:268:MET:HB2	44:QG:379:SER:O	2.00	0.60
45:QH:198:GLU:HG2	45:QH:266:PHE:CE2	2.35	0.60
44:QK:141:VAL:HG11	44:QK:172:TYR:HA	1.83	0.60
44:QM:419:SER:HB3	44:QM:422:ARG:HH12	1.65	0.60
45:QN:399:THR:HA	45:QN:403:MET:O	2.02	0.60
45:RB:1:MET:HE1	44:RC:72:PRO:HD2	1.83	0.60
44:RC:292:THR:HG21	44:RC:331:SER:HB3	1.81	0.60
45:RD:314:SER:HA	45:RD:350:LYS:CG	2.30	0.60
44:RE:278:ALA:HB2	44:RE:369:ALA:HB2	1.82	0.60
45:RF:312:THR:HG22	45:RF:370:ASN:HB3	1.83	0.60
45:RJ:60:VAL:HB	45:RJ:86:ARG:CZ	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:186:THR:HG23	45:RJ:415:MET:HE2	1.84	0.60
44:RK:232:ALA:O	44:RK:235:ILE:N	2.35	0.60
44:RM:209:ILE:HG21	44:RM:227:LEU:HA	1.84	0.60
45:RN:123:GLU:O	45:RN:126:GLY:N	2.34	0.60
45:RN:232:ALA:HB1	45:RN:268:ILE:HD11	1.84	0.60
45:RN:272:PRO:HD3	45:RN:289:LEU:CD2	2.31	0.60
45:RN:387:ALA:C	45:RN:390:ARG:HH11	2.03	0.60
44:SA:123:ARG:HA	44:SA:123:ARG:NE	2.16	0.60
45:SB:9:GLY:HA2	45:SB:66:MET:O	2.01	0.60
44:SC:91:GLN:HA	44:SC:121:ARG:HH22	1.66	0.60
44:SG:89:PRO:HG2	44:TG:280:LYS:CD	2.32	0.60
44:SG:137:VAL:O	44:SG:168:GLY:HA2	2.01	0.60
45:SH:387:ALA:O	45:SH:390:ARG:HG2	2.01	0.60
45:SJ:312:THR:HG22	45:SJ:370:ASN:CB	2.32	0.60
44:SK:166:LYS:N	44:SK:199:ASP:OD2	2.31	0.60
44:SK:216:ASN:HB3	44:SK:275:ILE:HG23	1.81	0.60
44:SK:277:SER:O	44:SK:281:ALA:N	2.29	0.60
45:SL:122:LYS:HE2	45:TL:291:GLN:OE1	2.02	0.60
44:SM:186:ASN:O	44:SM:190:SER:N	2.26	0.60
44:TA:174:SER:HB2	44:TA:177:VAL:O	2.01	0.60
45:TB:201:VAL:HG13	45:TB:301:CYS:SG	2.42	0.60
45:TB:268:ILE:O	45:TB:300:MET:HG3	2.01	0.60
45:TD:132:GLY:HA2	45:TD:162:ARG:HB3	1.82	0.60
45:TD:251:ARG:HD3	44:TE:105:ARG:HH12	1.66	0.60
45:TD:337:ASN:HB3	45:TD:340:TYR:CD2	2.34	0.60
45:TD:421:GLU:HA	45:TD:424:GLN:CB	2.30	0.60
44:TG:13:GLY:O	44:TG:16:VAL:HG12	2.02	0.60
44:TG:201:ALA:N	44:TG:266:HIS:O	2.25	0.60
44:TG:386:GLU:HA	44:TG:389:SER:OG	2.01	0.60
45:TH:257:LEU:O	45:TH:259:PRO:HD3	2.01	0.60
45:TH:318:ARG:HH11	45:TH:358:PRO:HG3	1.67	0.60
45:TH:360:GLY:O	45:TH:361:LEU:HD23	2.02	0.60
45:TL:28:HIS:CE1	45:TL:241:ARG:HD2	2.37	0.60
45:TL:251:ARG:O	45:TL:255:VAL:N	2.33	0.60
44:TM:295:ALA:HB1	44:TM:377:MET:CE	2.31	0.60
44:TM:362:VAL:HB	44:TM:370:LYS:HB3	1.82	0.60
45:UD:215:LEU:HD23	45:UD:217:LEU:H	1.67	0.60
44:UE:1:MET:HE1	45:UF:94:GLN:HA	1.83	0.60
45:UF:133:PHE:HB2	45:UF:164:MET:CG	2.21	0.60
45:UF:324:LYS:HD3	44:UG:210:TYR:CD1	2.37	0.60
44:UG:175:PRO:HD2	44:UG:207:GLU:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:2:ARG:HG2	45:UJ:2:ARG:O	2.02	0.60
45:UJ:73:MET:HE2	45:UJ:73:MET:HA	1.83	0.60
45:UJ:253:LEU:HD21	45:UJ:316:LEU:HD11	1.82	0.60
45:UJ:360:GLY:O	45:UJ:361:LEU:HD23	2.00	0.60
44:UK:10:GLY:HA2	44:UK:145:THR:CG2	2.09	0.60
44:UK:143:GLY:CA	46:UK:501:GTP:H5'	2.31	0.60
44:UK:176:GLN:NE2	44:UK:207:GLU:OE2	2.27	0.60
44:UK:270:SER:HB3	44:UK:378:ILE:HD13	1.83	0.60
44:UM:51:THR:HG21	44:UM:243:ARG:HB3	1.83	0.60
44:UM:425:LEU:HD23	44:UM:428:LEU:HD23	1.83	0.60
45:UN:256:ASN:CG	45:UN:350:LYS:HD2	2.20	0.60
44:VA:135:PHE:CB	44:VA:166:LYS:HG2	2.21	0.60
45:VD:182:PRO:O	45:VD:186:THR:HG22	2.01	0.60
45:VD:186:THR:HB	45:VD:381:VAL:CG1	2.31	0.60
44:VE:259:LEU:HB3	44:VE:268:MET:HE1	1.81	0.60
45:VF:42:LEU:HD22	45:VF:356:ILE:HD11	1.83	0.60
44:VG:49:PHE:CE2	44:VG:55:GLU:HB2	2.36	0.60
44:VG:105:ARG:NH2	44:VG:110:ILE:HG21	2.13	0.60
44:VK:247:ALA:HB3	44:VK:355:ILE:CB	2.25	0.60
45:VL:404:ASP:OD1	45:VL:407:GLU:HG3	2.00	0.60
44:VM:186:ASN:OD1	44:VM:187:SER:N	2.35	0.60
44:WA:60:LYS:HZ3	44:WA:62:VAL:CA	1.98	0.60
44:WA:68:LEU:HD21	44:WA:118:CYS:HB2	1.83	0.60
44:WA:107:HIS:HA	44:WA:153:LEU:N	2.15	0.60
44:WA:230:LEU:O	44:WA:234:VAL:N	2.21	0.60
45:WB:165:GLU:OE2	45:WB:250:LEU:HD22	2.01	0.60
45:WB:200:MET:HB3	45:WB:268:ILE:HD13	1.84	0.60
45:WB:274:THR:HB	45:WB:282:ARG:HH11	1.66	0.60
44:WC:88:HIS:HB3	44:WC:91:GLN:CB	2.29	0.60
45:WD:116:VAL:O	45:WD:119:VAL:HG12	2.01	0.60
45:WF:77:ARG:HH12	45:WF:83:GLN:CD	2.05	0.60
45:WF:102:ALA:HA	45:WF:403:MET:HE1	1.82	0.60
45:WF:178:THR:CG2	45:WF:181:GLU:HG3	2.32	0.60
45:WF:267:MET:SD	45:WF:374:ILE:HG22	2.41	0.60
44:WG:223:THR:HG23	44:WG:225:THR:H	1.64	0.60
45:WH:210:ILE:HD11	45:WH:300:MET:HE2	1.83	0.60
45:WH:304:ASP:OD1	45:WH:305:PRO:HD2	2.02	0.60
44:WK:311:LYS:HA	44:WK:342:GLN:OE1	2.01	0.60
45:WL:213:ARG:HH21	45:WL:297:LYS:HD3	1.65	0.60
44:WM:157:LEU:HD12	44:WM:158:SER:N	2.17	0.60
44:WM:171:ILE:HG12	44:WM:204:LEU:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:253:LEU:O	45:WN:257:LEU:HD13	2.01	0.60
45:WN:257:LEU:HB3	45:WN:266:PHE:CZ	2.37	0.60
1:6H:283:LEU:HD11	44:FE:357:TYR:HE2	1.63	0.60
7:0F:141:ILE:HG23	44:GC:218:ASP:OD2	2.00	0.60
8:1G:101:TYR:CG	45:JB:40:SER:HB3	2.36	0.60
22:1L:68:SER:OG	44:BI:367:ASP:OD1	2.10	0.60
25:1P:341:LEU:HD22	44:TC:364:PRO:CG	2.30	0.60
11:1Q:100:ARG:NH2	44:AC:434:GLU:HG2	2.16	0.60
26:1R:8:LEU:CD1	45:MF:361:LEU:HG	2.31	0.60
26:1R:93:VAL:CG2	44:AC:370:LYS:HZ1	2.09	0.60
13:1T:147:PHE:HB3	45:MF:402:GLY:CA	2.11	0.60
16:1X:49:ILE:CD1	44:ME:282:TYR:HD2	2.15	0.60
2:2A:104:ARG:CZ	35:5R:59:MET:HA	2.30	0.60
2:2A:124:LEU:HD12	45:AJ:361:LEU:HD12	1.81	0.60
6:2E:53:LYS:HE2	35:5R:382:TYR:HE1	1.66	0.60
22:2L:772:ASN:HD21	44:BK:279:GLU:HG2	1.66	0.60
15:2V:156:LEU:HD21	44:MG:386:GLU:OE2	2.02	0.60
37:5D:35:PHE:CZ	44:KK:432:TYR:HA	2.37	0.60
37:5D:107:TYR:HA	44:NM:277:SER:HB2	1.81	0.60
37:5D:110:ARG:N	44:NM:281:ALA:H	1.99	0.60
37:5D:112:PRO:HD3	44:NM:282:TYR:O	2.00	0.60
38:5E:157:ARG:HH12	45:ND:37:HIS:CB	2.12	0.60
38:5G:36:PRO:HA	44:OG:282:TYR:HD1	1.66	0.60
38:5G:198:PHE:HB3	44:LK:393:HIS:HE1	1.66	0.60
38:5H:60:TRP:CZ3	45:ON:279:GLN:HG2	2.37	0.60
39:5I:112:PRO:HB3	45:ND:309:ARG:HH12	1.66	0.60
35:7R:528:ILE:O	35:7R:531:THR:OG1	2.12	0.60
35:7R:544:SER:HB3	35:7R:547:GLU:HB2	1.83	0.60
42:8N:6:UNK:O	42:8N:10:UNK:N	2.34	0.60
43:8P:19:UNK:O	43:8P:23:UNK:N	2.35	0.60
44:AA:70:LEU:HD13	44:AA:110:ILE:CD1	2.30	0.60
45:AB:19:LYS:O	45:AB:22:GLU:HG3	2.01	0.60
45:AB:219:THR:O	45:AB:219:THR:HG23	2.01	0.60
44:AE:372:MET:CB	44:AE:373:ARG:HD2	2.27	0.60
44:AG:202:VAL:O	44:AG:203:MET:HE1	2.01	0.60
44:AG:339:ARG:CZ	44:AG:339:ARG:HB3	2.32	0.60
45:AH:21:TRP:CZ3	45:AH:61:PRO:HB3	2.36	0.60
44:AI:265:ILE:HD12	44:AI:432:TYR:CE1	2.36	0.60
45:AJ:112:LEU:O	45:AJ:112:LEU:HD23	2.00	0.60
45:AJ:281:TYR:CE2	45:MJ:87:PRO:HD2	2.37	0.60
45:AJ:418:LEU:HD12	45:AJ:418:LEU:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:105:ARG:O	44:AK:110:ILE:HG12	2.01	0.60
45:AL:372:THR:HA	45:AL:422:TYR:CE2	2.36	0.60
45:AN:65:LEU:HD11	45:AN:85:PHE:CE1	2.36	0.60
44:BC:101:ASN:HA	44:BC:144:GLY:CA	2.31	0.60
44:BC:260:VAL:O	44:BC:260:VAL:HG23	2.00	0.60
44:BE:289:ALA:HA	44:BE:331:SER:OG	2.01	0.60
45:BF:143:THR:HG22	48:BF:502:GDP:PB	2.41	0.60
45:BF:178:THR:HG22	45:BF:180:VAL:H	1.64	0.60
44:BI:24:PHE:HZ	44:BI:235:ILE:HG22	1.66	0.60
44:BI:102:ASN:CB	44:BI:105:ARG:HG3	2.28	0.60
44:BK:101:ASN:HA	44:BK:144:GLY:CA	2.30	0.60
44:BM:407:TRP:HH2	45:BN:254:ALA:HB1	1.67	0.60
45:BN:183:TYR:OH	45:BN:393:ALA:O	2.09	0.60
44:CC:88:HIS:HB3	44:CC:91:GLN:CG	2.31	0.60
44:CC:103:PHE:CE1	44:CC:148:GLY:HA2	2.36	0.60
44:CC:261:PRO:HA	45:CD:394:PHE:CD1	2.35	0.60
45:CF:228:LEU:CD2	45:CF:300:MET:HE1	2.30	0.60
44:CG:9:VAL:HA	44:CG:68:LEU:O	2.01	0.60
44:CG:174:SER:HB2	44:CG:177:VAL:O	2.01	0.60
45:CH:208:TYR:CE1	45:CH:225:LEU:HD11	2.36	0.60
45:CJ:5:VAL:HG12	45:CJ:62:ARG:HH12	1.66	0.60
45:CJ:284:LEU:HD12	45:CJ:362:LYS:HE3	1.81	0.60
45:CL:20:PHE:O	45:CL:24:ILE:HD12	2.01	0.60
45:CL:267:MET:N	45:CL:369:GLY:O	2.27	0.60
44:DC:174:SER:HB2	44:DC:177:VAL:O	2.01	0.60
44:DC:313:MET:HB2	44:DC:380:ASN:O	2.01	0.60
45:DD:217:LEU:HD11	45:DD:220:PRO:CG	2.28	0.60
44:DE:60:LYS:HD3	44:EE:283:HIS:NE2	2.16	0.60
45:DF:4:ILE:CG2	45:DF:131:GLN:HB3	2.31	0.60
45:DF:35:THR:O	45:DF:37:HIS:ND1	2.31	0.60
45:DF:189:VAL:HG11	45:DF:415:MET:HE2	1.82	0.60
44:DG:104:ALA:H	44:DG:408:TYR:HE2	1.50	0.60
44:DG:141:VAL:CG1	44:DG:173:PRO:HD3	2.31	0.60
45:DJ:252:LYS:HA	44:DK:100:ALA:HB1	1.83	0.60
44:DK:88:HIS:HB3	44:DK:91:GLN:CG	2.31	0.60
44:DK:175:PRO:CD	44:DK:176:GLN:N	2.63	0.60
44:DM:3:GLU:OE2	44:DM:130:THR:HG22	2.02	0.60
44:DM:31:GLN:NE2	44:DM:33:ASP:HB2	2.05	0.60
44:DM:36:MET:CE	44:DM:38:SER:HA	2.31	0.60
45:DN:316:LEU:N	45:DN:366:THR:O	2.33	0.60
44:EA:227:LEU:HD13	46:EA:501:GTP:HN1	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:350:LYS:NZ	44:EC:179:THR:HG22	2.17	0.60
44:EC:145:THR:O	44:EC:149:LEU:HD23	2.02	0.60
45:EF:211:CYS:SG	45:EF:225:LEU:HD21	2.41	0.60
44:EK:315:CYS:HA	44:EK:379:SER:OG	2.00	0.60
45:EN:1:MET:O	45:EN:2:ARG:HD3	2.00	0.60
45:EN:36:TYR:CZ	45:EN:44:LEU:HD11	2.36	0.60
44:FA:270:SER:HB2	44:FA:377:MET:O	2.01	0.60
45:FB:140:GLY:HA2	45:FB:171:PRO:CD	2.31	0.60
45:FB:244:GLY:HA3	45:FB:354:CYS:CA	2.20	0.60
45:FB:418:LEU:O	45:FB:422:TYR:HB2	2.00	0.60
44:FC:311:LYS:HB2	44:FC:382:THR:CG2	2.30	0.60
45:FD:11:GLN:O	45:FD:15:GLN:HG2	2.00	0.60
45:FD:398:TYR:O	45:FD:403:MET:HB3	2.01	0.60
44:FE:254:GLU:HG2	45:FH:98:GLY:HA3	1.82	0.60
45:FH:86:ARG:NH2	45:GH:278:SER:HA	2.16	0.60
44:FI:28:HIS:NE2	44:FI:243:ARG:HD2	2.17	0.60
44:FK:291:ILE:CD1	44:FK:375:VAL:HB	2.30	0.60
45:FL:210:ILE:HG23	45:FL:214:THR:CG2	2.30	0.60
44:GA:11:GLN:HG3	44:GA:74:VAL:CG1	2.31	0.60
44:GA:229:ARG:HH12	44:GA:363:VAL:HG21	1.66	0.60
45:GD:263:LEU:HG	45:GD:422:TYR:CD1	2.36	0.60
45:GF:20:PHE:O	45:GF:24:ILE:HG12	2.01	0.60
44:GG:329:ASN:HA	44:GG:332:ILE:HG22	1.83	0.60
45:GJ:313:ALA:HB3	45:GJ:349:ILE:HG13	1.83	0.60
44:GK:37:PRO:CD	44:GK:40:LYS:HE2	2.31	0.60
45:GL:133:PHE:HD2	45:GL:155:VAL:HG11	1.66	0.60
44:GM:135:PHE:HD2	44:GM:166:LYS:HD3	1.66	0.60
44:GM:394:LYS:HA	44:GM:397:LEU:CG	2.30	0.60
45:GN:113:ILE:HD13	45:GN:150:LEU:HD22	1.82	0.60
44:HA:274:PRO:CD	44:HA:374:ALA:HA	2.31	0.60
44:HA:319:TYR:HE2	44:HA:328:VAL:HA	1.66	0.60
44:HC:171:ILE:HG23	44:HC:204:LEU:O	2.00	0.60
45:HD:213:ARG:HE	45:HD:297:LYS:HD3	1.65	0.60
44:HE:55:GLU:OE1	44:HE:61:HIS:NE2	2.34	0.60
45:HH:145:SER:O	45:HH:149:THR:HG22	2.01	0.60
45:HJ:309:ARG:HD3	45:HJ:342:VAL:HA	1.82	0.60
44:HK:1:MET:SD	45:HN:94:GLN:NE2	2.75	0.60
45:HL:61:PRO:CD	45:HL:84:LEU:HB3	2.31	0.60
45:HL:372:THR:HA	45:HL:422:TYR:CE2	2.32	0.60
44:HM:175:PRO:HG2	44:HM:176:GLN:OE1	2.02	0.60
45:HN:231:ALA:HB1	45:HN:270:PHE:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:73:THR:HB	45:IB:247:ASN:ND2	2.15	0.60
44:IA:183:GLU:CD	44:IA:184:PRO:HD3	2.22	0.60
45:IB:374:ILE:HD11	45:IB:422:TYR:CE1	2.37	0.60
45:ID:22:GLU:HG2	45:ID:81:PHE:CD1	2.37	0.60
44:IE:51:THR:HG21	44:IE:243:ARG:HB3	1.82	0.60
44:IE:383:ALA:O	44:IE:386:GLU:HG2	2.00	0.60
44:IE:387:VAL:O	44:IE:391:LEU:HD13	2.01	0.60
44:II:195:LEU:HD12	44:II:266:HIS:NE2	2.17	0.60
45:IN:271:ALA:HB1	45:IN:272:PRO:HA	1.84	0.60
44:JA:103:PHE:HB3	44:JA:408:TYR:CE2	2.36	0.60
44:JA:133:GLN:CG	44:JA:252:ILE:HD11	2.31	0.60
45:JB:73:MET:HE3	45:JB:92:PHE:HB3	1.81	0.60
44:JC:68:LEU:CD1	44:JC:153:LEU:HD11	2.31	0.60
44:JE:135:PHE:HE2	44:JE:157:LEU:HD12	1.67	0.60
44:JK:256:GLN:HB2	45:JN:397:TRP:HZ3	1.66	0.60
44:JK:423:GLU:OE1	44:NK:339:ARG:NH1	2.34	0.60
45:JN:25:SER:O	45:JN:29:GLY:N	2.34	0.60
45:JN:332:ASN:O	45:JN:336:LYS:HG2	2.01	0.60
44:KA:105:ARG:HG2	44:KA:411:GLU:OE2	2.02	0.60
44:KE:66:VAL:HG11	44:KE:122:ILE:HD11	1.82	0.60
44:KG:101:ASN:OD1	45:KH:252:LYS:HG3	2.02	0.60
45:KH:316:LEU:HG	45:KH:352:SER:OG	2.01	0.60
45:KJ:285:THR:O	45:KJ:288:GLU:N	2.34	0.60
44:KM:66:VAL:HG22	44:KM:68:LEU:CD1	2.32	0.60
45:KN:31:ASP:HB2	45:KN:32:PRO:CD	2.31	0.60
44:LA:9:VAL:HA	44:LA:68:LEU:O	2.02	0.60
45:LB:121:ARG:HH12	45:LB:159:TYR:HH	1.46	0.60
45:LD:318:ARG:N	45:LD:364:ALA:O	2.34	0.60
44:LE:210:TYR:HE2	45:LF:324:LYS:CB	2.13	0.60
44:LG:211:ASP:O	44:LG:214:ARG:HG2	2.02	0.60
45:LH:73:MET:CE	45:LH:92:PHE:HB3	2.31	0.60
45:LJ:265:PHE:HE2	45:LJ:378:PHE:HZ	1.49	0.60
44:MA:288:VAL:O	44:MA:291:ILE:HG12	2.02	0.60
45:MD:183:TYR:O	45:MD:186:THR:HG22	2.01	0.60
44:ME:265:ILE:HD12	44:ME:432:TYR:CZ	2.35	0.60
44:MG:31:GLN:HG3	44:MG:32:PRO:HD2	1.83	0.60
44:MG:42:ILE:HB	44:MG:45:GLY:CA	2.31	0.60
45:MJ:4:ILE:HG13	45:MJ:50:TYR:HE1	1.65	0.60
45:MJ:113:ILE:HD12	45:MJ:150:LEU:CD2	2.32	0.60
45:ML:178:THR:HB	45:ML:181:GLU:CG	2.31	0.60
45:MN:52:ASN:HD21	45:MN:62:ARG:HG2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MN:233:MET:O	45:MN:236:VAL:HG22	2.00	0.60
44:NC:31:GLN:HG3	44:NC:32:PRO:CD	2.30	0.60
45:ND:213:ARG:NH1	45:ND:214:THR:HB	2.16	0.60
45:ND:279:GLN:HB2	45:ND:281:TYR:HE2	1.67	0.60
45:ND:341:PHE:CB	45:ND:348:ASN:HD21	2.13	0.60
44:NE:305:CYS:SG	44:NE:386:GLU:HB2	2.41	0.60
44:NE:402:ARG:O	44:NE:405:VAL:HG12	2.01	0.60
44:NI:315:CYS:N	44:NI:350:GLY:O	2.22	0.60
44:NI:326:LYS:NZ	45:NL:218:THR:O	2.23	0.60
45:NJ:135:ILE:HD12	45:NJ:164:MET:CE	2.32	0.60
44:NK:98:ASP:OD1	44:NK:99:ALA:N	2.34	0.60
45:NL:163:ILE:HG23	45:NL:197:ASP:OD2	2.00	0.60
44:OA:55:GLU:OE1	44:OA:61:HIS:NE2	2.31	0.60
44:OA:318:MET:O	44:OA:375:VAL:HG23	2.01	0.60
45:OB:32:PRO:HG3	45:OB:81:PHE:CE2	2.36	0.60
45:OB:180:VAL:HB	45:OB:183:TYR:CD2	2.36	0.60
44:OE:250:VAL:HA	44:OE:254:GLU:OE1	2.01	0.60
44:OG:265:ILE:HD12	44:OG:432:TYR:CD1	2.36	0.60
45:OL:97:ALA:HB3	45:OL:143:THR:HB	1.83	0.60
44:OM:288:VAL:HA	44:OM:291:ILE:CG1	2.30	0.60
44:PC:109:THR:OG1	44:PC:411:GLU:O	2.18	0.60
45:PD:131:GLN:CG	45:PD:250:LEU:HD12	2.27	0.60
44:PE:100:ALA:CB	45:PF:251:ARG:HB3	2.32	0.60
44:PE:261:PRO:HG2	44:PE:313:MET:CE	2.31	0.60
45:PF:236:VAL:HG23	45:PF:253:LEU:HD22	1.83	0.60
44:PG:51:THR:HG23	44:PG:242:LEU:HD23	1.83	0.60
45:PH:207:LEU:HB3	45:PH:225:LEU:HD21	1.82	0.60
45:PH:296:ALA:O	45:PH:299:MET:HE2	2.02	0.60
44:PK:117:LEU:O	44:PK:120:ASP:HB2	2.01	0.60
44:PK:279:GLU:C	44:PK:280:LYS:HD3	2.21	0.60
45:PL:11:GLN:HA	45:PL:14:ASN:ND2	2.15	0.60
45:PL:161:ASP:C	45:PL:162:ARG:HD2	2.21	0.60
44:PM:318:MET:O	44:PM:375:VAL:HG23	2.00	0.60
45:PN:317:PHE:HA	45:PN:365:VAL:CG2	2.30	0.60
45:QB:22:GLU:HG2	45:QB:81:PHE:CD1	2.37	0.60
45:QD:163:ILE:CD1	45:QD:250:LEU:HB2	2.31	0.60
44:QE:247:ALA:CB	45:QF:222:TYR:HD2	2.15	0.60
44:QE:291:ILE:HG13	44:QE:292:THR:N	2.16	0.60
44:QG:68:LEU:CD2	44:QG:153:LEU:HD21	2.30	0.60
44:QG:145:THR:HG23	44:QG:146:GLY:N	2.16	0.60
45:QH:238:CYS:HB2	45:QH:318:ARG:CZ	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:98:ASP:OD1	44:QI:99:ALA:N	2.34	0.60
45:QJ:135:ILE:HB	45:QJ:166:THR:CG2	2.26	0.60
45:QL:342:VAL:HG13	45:QL:345:ILE:HG22	1.84	0.60
44:QM:105:ARG:O	44:QM:110:ILE:HG12	2.02	0.60
44:RA:33:ASP:HB3	44:RA:35:GLN:HE22	1.67	0.60
44:RA:145:THR:HG22	46:RA:501:GTP:PG	2.40	0.60
44:RC:32:PRO:HB3	44:RC:83:TYR:CE1	2.37	0.60
44:RC:307:PRO:HB2	44:RC:312:TYR:CE1	2.32	0.60
45:RD:52:ASN:ND2	45:RD:60:VAL:O	2.35	0.60
45:RD:67:ASP:OD1	45:RD:68:LEU:N	2.34	0.60
44:RE:72:PRO:O	44:RE:75:ILE:N	2.34	0.60
44:RE:138:PHE:HE1	44:RE:169:PHE:HD2	1.50	0.60
44:RE:156:ARG:O	44:RE:159:VAL:HG12	2.00	0.60
44:RG:287:SER:HB3	44:RG:290:GLU:CG	2.30	0.60
45:RH:420:SER:O	45:RH:423:GLN:HG3	2.01	0.60
44:RI:76:ASP:OD1	44:RI:79:ARG:NH1	2.26	0.60
44:RI:405:VAL:O	44:RI:408:TYR:N	2.28	0.60
45:RJ:124:ALA:CB	45:RJ:130:LEU:HD22	2.25	0.60
45:RJ:135:ILE:HG13	45:RJ:152:ILE:CD1	2.32	0.60
45:RJ:293:MET:HA	45:RJ:298:ASN:HD22	1.66	0.60
45:RL:104:GLY:O	45:RL:109:GLY:HA3	2.00	0.60
45:RL:213:ARG:HH21	45:RL:297:LYS:HD2	1.67	0.60
45:RL:256:ASN:OD1	44:RM:181:VAL:HG22	2.01	0.60
44:RM:140:SER:O	44:RM:147:SER:HB3	2.02	0.60
44:RM:353:VAL:HG12	45:RN:177:ASP:HA	1.84	0.60
44:SA:101:ASN:HA	44:SA:144:GLY:CA	2.30	0.60
44:SA:137:VAL:HG12	44:SA:167:LEU:O	2.01	0.60
45:SB:285:THR:O	45:SB:289:LEU:N	2.34	0.60
44:SC:102:ASN:OD1	44:SC:105:ARG:HG2	2.01	0.60
45:SF:206:ALA:O	45:SF:210:ILE:HG13	2.02	0.60
44:SG:210:TYR:HE1	44:SG:227:LEU:HD11	1.65	0.60
45:SH:128:ASP:OD1	45:SH:129:CYS:N	2.33	0.60
44:SI:242:LEU:HD11	44:SI:252:ILE:HG13	1.82	0.60
44:SM:141:VAL:HG21	44:SM:172:TYR:HE1	1.66	0.60
44:SM:320:ARG:CA	44:SM:356:ASN:HB3	2.32	0.60
44:TA:70:LEU:HD12	44:TA:145:THR:HB	1.84	0.60
44:TA:344:VAL:CG2	44:TA:347:CYS:HB3	2.31	0.60
45:TB:178:THR:HG21	45:TB:180:VAL:HG12	1.81	0.60
45:TB:396:HIS:HA	45:TB:399:THR:OG1	2.01	0.60
44:TE:184:PRO:HB3	44:TE:394:LYS:CD	2.31	0.60
45:TF:323:THR:O	45:TF:326:VAL:HB	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:44:LEU:HD22	45:TH:47:ILE:HG21	1.82	0.60
45:TH:285:THR:CB	45:TH:287:PRO:HD2	2.31	0.60
44:TI:340:THR:HG23	44:TI:341:ILE:HG12	1.83	0.60
45:TJ:14:ASN:ND2	45:TJ:73:MET:SD	2.75	0.60
45:TJ:187:LEU:HD11	45:TJ:408:PHE:CE1	2.36	0.60
45:TL:345:ILE:O	45:TL:345:ILE:HG23	2.02	0.60
44:TM:258:ASN:CG	45:TN:179:VAL:HG22	2.22	0.60
45:TN:312:THR:CG2	45:TN:370:ASN:HB3	2.31	0.60
45:UB:169:VAL:HA	45:UB:202:ILE:O	2.02	0.60
45:UB:245:GLN:HB3	44:UC:224:TYR:CD2	2.36	0.60
45:UD:174:LYS:HD2	45:UD:175:VAL:HG13	1.83	0.60
45:UD:337:ASN:OD1	45:UD:340:TYR:HB2	2.01	0.60
44:UE:14:ILE:HD13	44:UE:75:ILE:HD11	1.82	0.60
44:UG:137:VAL:HG12	44:UG:167:LEU:O	2.02	0.60
44:UG:301:MET:SD	44:UG:307:PRO:HD3	2.41	0.60
45:UH:161:ASP:OD1	45:UH:162:ARG:N	2.34	0.60
45:UH:165:GLU:OE2	45:UH:250:LEU:HD22	2.01	0.60
45:UH:334:GLN:HG3	45:UH:341:PHE:CE2	2.36	0.60
44:UI:109:THR:HG22	44:UI:110:ILE:HG23	1.82	0.60
45:UJ:296:ALA:O	45:UJ:299:MET:HE1	2.01	0.60
45:UL:30:ILE:HD13	45:UL:36:TYR:HA	1.82	0.60
45:UL:127:CYS:SG	45:UL:130:LEU:HB2	2.42	0.60
44:UM:346:TRP:CZ3	44:UM:347:CYS:HB2	2.36	0.60
44:VA:69:ASP:OD2	44:VA:74:VAL:HG21	2.01	0.60
44:VA:173:PRO:HG3	44:VA:183:GLU:HG3	1.82	0.60
45:VB:141:GLY:HA3	48:VB:502:GDP:O3A	2.01	0.60
44:VC:280:LYS:HA	44:VC:283:HIS:CD2	2.36	0.60
45:VD:11:GLN:N	48:VD:501:GDP:O1B	2.32	0.60
45:VD:103:LYS:N	45:VD:401:GLU:OE1	2.35	0.60
45:VD:164:MET:CE	45:VD:166:THR:HG23	2.31	0.60
44:VE:286:LEU:O	44:VE:373:ARG:HD2	2.01	0.60
45:VF:101:TRP:NE1	45:VF:146:GLY:HA2	2.16	0.60
44:VG:196:GLU:OE2	44:VG:264:ARG:NH1	2.34	0.60
44:VG:275:ILE:HG23	44:VG:368:LEU:CD1	2.31	0.60
45:VH:156:ARG:NH2	45:VH:162:ARG:O	2.35	0.60
44:VI:60:LYS:HZ1	44:VI:86:LEU:HA	1.67	0.60
45:VJ:133:PHE:O	45:VJ:165:GLU:N	2.24	0.60
45:VJ:284:LEU:HB2	45:VJ:362:LYS:HE3	1.84	0.60
44:VK:23:LEU:HD22	44:VK:233:GLN:HA	1.82	0.60
44:VK:296:PHE:HE2	44:VK:335:ILE:HG21	1.66	0.60
44:VM:120:ASP:HA	44:VM:123:ARG:HH12	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:326:VAL:O	45:VN:330:MET:HG2	2.01	0.60
44:WC:428:LEU:HD21	44:WC:432:TYR:HE2	1.65	0.60
45:WD:179:VAL:O	45:WD:182:PRO:HD2	2.02	0.60
45:WF:70:PRO:HA	45:WF:73:MET:CE	2.30	0.60
45:WF:359:LYS:HD2	45:WF:359:LYS:O	2.01	0.60
44:WG:274:PRO:CG	44:WG:291:ILE:HD11	2.32	0.60
44:WI:244:PHE:CE2	44:WI:358:GLN:HG2	2.36	0.60
45:WJ:61:PRO:CD	45:WJ:84:LEU:HB3	2.31	0.60
44:WK:72:PRO:HG3	44:WK:95:GLY:O	2.01	0.60
45:WL:371:SER:O	45:WL:374:ILE:HG23	2.02	0.60
44:WM:183:GLU:HG2	44:WM:184:PRO:HD3	1.83	0.60
44:WM:194:LEU:O	44:WM:198:THR:OG1	2.16	0.60
44:WM:251:ASP:OD1	44:WM:254:GLU:HB2	2.01	0.60
12:OS:108:LEU:CB	45:MB:160:PRO:HB2	2.31	0.60
2:1A:128:HIS:CD2	45:AF:360:GLY:HA2	2.36	0.60
24:1O:209:LYS:HD2	44:UC:370:LYS:NZ	2.15	0.60
37:5B:163:ALA:HB1	44:NG:280:LYS:HB3	1.81	0.60
37:5D:27:LYS:HA	45:KN:395:LEU:CD2	2.24	0.60
38:5H:9:TYR:CG	38:5H:10:PRO:HD3	2.37	0.60
39:5I:102:ASN:C	39:5I:105:PRO:HD2	2.21	0.60
35:5R:256:LEU:HD11	35:5R:359:TRP:CE3	2.36	0.60
11:6Q:22:LEU:HG	11:6Q:22:LEU:O	2.02	0.60
35:7R:401:VAL:HG12	45:EB:277:GLY:HA2	1.84	0.60
35:7R:442:PHE:CD2	35:7R:457:GLU:HG2	2.37	0.60
43:8P:214:UNK:O	43:8P:218:UNK:N	2.34	0.60
44:AA:272:TYR:CD2	44:AA:275:ILE:HD11	2.37	0.60
45:AD:1:MET:O	45:AD:2:ARG:HG2	2.01	0.60
44:AG:315:CYS:SG	44:AG:379:SER:HB3	2.40	0.60
44:AI:265:ILE:HG23	44:AI:432:TYR:CE1	2.37	0.60
44:BA:195:LEU:HA	44:BA:266:HIS:NE2	2.16	0.60
44:BA:291:ILE:HG13	44:BA:292:THR:N	2.16	0.60
44:BC:250:VAL:HG22	44:BC:352:LYS:HE3	1.84	0.60
45:BF:207:LEU:O	45:BF:210:ILE:HG22	2.01	0.60
44:BG:14:ILE:O	44:BG:18:ASN:N	2.28	0.60
44:BG:141:VAL:HG11	44:BG:172:TYR:HE1	1.65	0.60
44:BG:377:MET:O	44:BG:378:ILE:HD13	2.02	0.60
45:BH:382:ALA:HB2	45:BH:415:MET:HE1	1.84	0.60
44:BI:166:LYS:C	44:BI:167:LEU:HD12	2.22	0.60
44:BM:179:THR:HG23	45:BN:351:SER:CB	2.24	0.60
44:BM:181:VAL:HG11	45:BN:256:ASN:O	2.01	0.60
45:BN:143:THR:HG23	45:BN:144:GLY:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:4:ILE:O	45:CB:62:ARG:HD2	2.02	0.60
45:CB:22:GLU:HG2	45:CB:81:PHE:CD1	2.36	0.60
44:CC:245:ASP:OD2	44:CC:246:GLY:N	2.35	0.60
45:CD:32:PRO:HD3	45:CD:81:PHE:CZ	2.37	0.60
44:CG:318:MET:HE3	44:CG:352:LYS:HB3	1.83	0.60
45:CH:133:PHE:CD2	45:CH:155:VAL:HG11	2.36	0.60
45:CH:139:LEU:HD21	45:CH:185:ALA:CA	2.16	0.60
45:CH:331:LEU:HD21	44:CI:176:GLN:HG3	1.84	0.60
44:CK:387:VAL:HA	44:CK:390:ARG:CG	2.30	0.60
45:CN:389:PHE:O	45:CN:392:LYS:HD3	2.02	0.60
44:DC:248:LEU:HB3	44:DC:355:ILE:HB	1.84	0.60
45:DD:404:ASP:OD1	45:DD:407:GLU:HG3	2.02	0.60
44:DE:175:PRO:HG2	44:DE:304:LYS:HG2	1.84	0.60
44:DE:269:LEU:HD23	44:DE:379:SER:O	2.02	0.60
45:DF:102:ALA:HB2	45:DF:398:TYR:HD1	1.67	0.60
45:DF:330:MET:CE	45:DF:349:ILE:HD13	2.31	0.60
45:DH:62:ARG:HG3	45:DH:62:ARG:O	2.02	0.60
44:DI:64:ARG:NE	44:DI:129:CYS:SG	2.74	0.60
44:DK:170:THR:O	44:DK:171:ILE:HD13	2.01	0.60
44:DK:312:TYR:CE1	44:DK:341:ILE:HD11	2.37	0.60
45:DL:66:MET:HG2	45:DL:91:VAL:HG13	1.83	0.60
45:DN:65:LEU:O	45:DN:91:VAL:HG22	2.00	0.60
44:EA:320:ARG:CD	44:EA:360:PRO:HG3	2.31	0.60
44:EC:320:ARG:HA	44:EC:356:ASN:CB	2.25	0.60
44:EE:275:ILE:HA	44:EE:368:LEU:HD11	1.84	0.60
44:EE:276:ILE:HD13	44:EE:281:ALA:HA	1.83	0.60
44:EI:212:ILE:HD12	44:EI:300:ASN:OD1	2.01	0.60
45:EJ:10:GLY:O	45:EJ:14:ASN:ND2	2.33	0.60
44:EM:52:PHE:C	44:EM:64:ARG:HD3	2.22	0.60
44:EM:269:LEU:H	44:EM:269:LEU:HD23	1.67	0.60
44:FA:186:ASN:HA	44:FA:189:LEU:HD12	1.84	0.60
45:FB:342:VAL:HG22	45:FB:348:ASN:ND2	2.17	0.60
45:FF:69:GLU:OE2	45:FF:72:THR:HB	2.02	0.60
45:FF:130:LEU:HD11	45:FF:133:PHE:HE1	1.66	0.60
44:FI:408:TYR:O	44:FI:413:MET:HB3	2.02	0.60
45:FJ:143:THR:HG22	48:FJ:501:GDP:O2B	2.02	0.60
44:FK:88:HIS:ND1	44:FK:90:GLU:HG2	2.15	0.60
44:FK:132:LEU:HD11	44:FK:135:PHE:CE1	2.36	0.60
45:FL:217:LEU:HD12	45:FL:217:LEU:O	2.01	0.60
44:GA:305:CYS:SG	44:GA:306:ASP:N	2.75	0.60
45:GB:318:ARG:NH2	45:GB:356:ILE:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:200:VAL:HG13	44:GE:268:MET:CE	2.32	0.60
44:GE:294:SER:HA	44:GE:297:GLU:HG3	1.83	0.60
45:GH:46:ARG:HH11	45:GH:46:ARG:HG3	1.67	0.60
44:GI:265:ILE:O	44:GI:265:ILE:HG23	2.02	0.60
44:GI:288:VAL:O	44:GI:291:ILE:HG12	2.01	0.60
45:GJ:173:PRO:HG2	45:GJ:380:ARG:HD3	1.82	0.60
45:GJ:289:LEU:O	45:GJ:293:MET:HB2	2.02	0.60
45:GL:253:LEU:O	45:GL:257:LEU:HD13	2.02	0.60
44:GM:288:VAL:HB	44:GM:373:ARG:HD2	1.83	0.60
44:HE:254:GLU:OE2	45:HH:99:ASN:ND2	2.34	0.60
45:HF:4:ILE:CG2	45:HF:131:GLN:HB2	2.32	0.60
44:HG:276:ILE:HG23	44:HG:281:ALA:HB2	1.81	0.60
45:HH:55:THR:HG22	45:IH:280:GLN:O	2.00	0.60
45:HH:375:GLN:OE1	45:HH:423:GLN:NE2	2.34	0.60
45:HJ:193:VAL:HA	45:HJ:264:HIS:CE1	2.36	0.60
45:HL:314:SER:OG	45:HL:350:LYS:HD3	2.01	0.60
45:HN:11:GLN:OE1	45:HN:11:GLN:N	2.25	0.60
45:ID:62:ARG:HH12	45:ID:127:CYS:HB3	1.65	0.60
44:IE:107:HIS:NE2	44:IE:152:LEU:HD13	2.17	0.60
45:IF:16:ILE:HD13	45:IF:226:ASN:OD1	2.02	0.60
45:IF:105:HIS:CD2	45:IF:150:LEU:HB2	2.37	0.60
44:IG:398:MET:HE2	45:IH:346:PRO:HD2	1.83	0.60
45:IH:304:ASP:OD1	45:IH:306:ARG:HG2	2.01	0.60
44:II:246:GLY:HA2	44:II:357:TYR:HD2	1.66	0.60
44:IK:14:ILE:HG12	44:IK:75:ILE:HD11	1.82	0.60
45:IN:7:ILE:HB	45:IN:135:ILE:CD1	2.32	0.60
45:IN:403:MET:HA	45:IN:403:MET:CE	2.31	0.60
44:JA:287:SER:HA	44:JA:373:ARG:NH1	2.16	0.60
44:JC:209:ILE:HG23	44:JC:302:MET:HE3	1.84	0.60
44:JC:313:MET:HE2	44:JC:346:TRP:HZ2	1.65	0.60
44:JC:404:PHE:CZ	45:JD:259:PRO:HG3	2.37	0.60
45:JD:48:ASN:HA	45:JD:51:TYR:O	2.01	0.60
45:JH:399:THR:HA	45:JH:403:MET:O	2.01	0.60
44:JM:88:HIS:NE2	44:KM:280:LYS:HE2	2.16	0.60
45:JN:237:THR:HG23	45:JN:241:ARG:HH21	1.67	0.60
45:JN:279:GLN:HG3	45:JN:280:GLN:HG3	1.82	0.60
45:JN:325:GLU:O	45:JN:329:GLN:HG2	2.01	0.60
45:KB:145:SER:HB2	45:KB:188:SER:CB	2.31	0.60
45:KB:205:GLU:OE2	45:KB:302:ALA:HB2	2.00	0.60
45:KD:3:GLU:N	45:KD:3:GLU:OE1	2.33	0.60
45:KD:105:HIS:NE2	45:KD:150:LEU:HD21	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:19:LYS:O	45:KF:22:GLU:N	2.34	0.60
45:KF:143:THR:HG22	48:KF:502:GDP:PB	2.41	0.60
45:KH:199:CYS:HB2	45:KH:265:PHE:CD1	2.36	0.60
45:KH:271:ALA:HB1	45:KH:292:GLN:HE21	1.67	0.60
45:KJ:269:GLY:HA3	45:KJ:293:MET:HE3	1.83	0.60
45:KL:34:GLY:O	45:KL:58:ARG:HA	2.01	0.60
44:KM:141:VAL:HG13	44:KM:190:SER:OG	2.01	0.60
44:LA:8:HIS:O	44:LA:68:LEU:N	2.34	0.60
45:LB:187:LEU:HD11	45:LB:408:PHE:CE1	2.36	0.60
45:LD:256:ASN:HD22	45:LD:350:LYS:HD2	1.66	0.60
44:LE:108:TYR:HA	44:LE:112:LYS:NZ	2.16	0.60
44:LE:210:TYR:HE2	45:LF:324:LYS:HB2	1.66	0.60
44:LI:244:PHE:CD2	44:LI:358:GLN:HG3	2.36	0.60
44:LI:319:TYR:CD1	44:LI:375:VAL:HG12	2.37	0.60
45:LJ:256:ASN:HD22	45:LJ:350:LYS:CE	2.14	0.60
45:LJ:344:TRP:O	45:LJ:345:ILE:HD13	2.02	0.60
45:LL:117:LEU:HB3	45:LL:121:ARG:NH1	2.17	0.60
45:LL:192:LEU:O	45:LL:196:ALA:HB3	2.02	0.60
45:LL:215:LEU:HD21	45:LL:273:LEU:CD1	2.29	0.60
44:LM:404:PHE:CE2	45:LN:259:PRO:HA	2.37	0.60
44:MA:223:THR:HG22	44:MA:224:TYR:N	2.16	0.60
45:MF:167:PHE:HE1	45:MF:200:MET:CE	2.15	0.60
44:MG:71:GLU:OE2	45:MH:2:ARG:NH2	2.34	0.60
45:MJ:178:THR:HG22	45:MJ:180:VAL:H	1.66	0.60
44:MK:271:SER:HB2	44:MK:377:MET:CG	2.31	0.60
44:NC:157:LEU:HD22	44:NC:166:LYS:HE3	1.83	0.60
44:NC:210:TYR:CE1	44:NC:227:LEU:HD11	2.34	0.60
45:ND:97:ALA:HA	45:ND:103:LYS:CE	2.31	0.60
45:ND:241:ARG:HG3	45:ND:242:PHE:CD2	2.37	0.60
45:ND:286:VAL:HA	45:ND:289:LEU:HG	1.82	0.60
45:ND:304:ASP:OD1	45:ND:305:PRO:HD2	2.01	0.60
45:NF:113:ILE:HD13	45:NF:150:LEU:CD2	2.32	0.60
45:NH:324:LYS:HG3	45:NH:325:GLU:N	2.16	0.60
44:NI:50:ASN:O	44:NI:50:ASN:ND2	2.34	0.60
45:NJ:223:GLY:O	45:NJ:226:ASN:HB2	2.01	0.60
44:NK:340:THR:HG23	44:NK:341:ILE:HG12	1.84	0.60
45:NL:42:LEU:HA	45:NL:45:GLU:HG3	1.84	0.60
44:NM:294:SER:HA	44:NM:297:GLU:CG	2.29	0.60
45:NN:28:HIS:C	45:NN:43:GLN:HE21	2.04	0.60
44:OA:222:PRO:HD2	45:OB:324:LYS:HD3	1.83	0.60
45:OB:116:VAL:O	45:OB:119:VAL:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:318:ARG:CB	45:OB:364:ALA:HB3	2.31	0.60
44:OC:183:GLU:N	44:OC:184:PRO:HD2	2.17	0.60
44:OC:270:SER:CB	44:OC:378:ILE:HD13	2.31	0.60
44:OG:119:LEU:HA	44:OG:122:ILE:HG22	1.84	0.60
44:OG:223:THR:N	44:OG:226:ASN:OD1	2.22	0.60
44:OG:260:VAL:HG12	44:OG:262:TYR:O	2.02	0.60
44:OG:296:PHE:HE1	44:OG:312:TYR:HE2	1.49	0.60
45:OH:267:MET:CE	45:OH:374:ILE:HG22	2.31	0.60
44:OI:189:LEU:HD21	44:OI:418:PHE:HA	1.83	0.60
44:OI:407:TRP:CE3	45:OJ:255:VAL:HG22	2.35	0.60
44:PC:101:ASN:CA	44:PC:144:GLY:HA3	2.30	0.60
44:PC:329:ASN:O	44:PC:332:ILE:HG22	2.02	0.60
44:PG:268:MET:HG3	44:PG:378:ILE:HG22	1.84	0.60
45:PH:47:ILE:CG1	45:PH:51:TYR:HB2	2.31	0.60
45:PL:178:THR:N	45:PL:181:GLU:OE2	2.31	0.60
44:PM:241:SER:OG	44:PM:250:VAL:O	2.18	0.60
44:PM:315:CYS:HA	44:PM:378:ILE:O	2.01	0.60
44:QA:115:VAL:HG21	44:QA:156:ARG:HE	1.67	0.60
44:QA:344:VAL:HG11	44:QA:346:TRP:CZ2	2.37	0.60
44:QC:136:LEU:CD2	44:QC:167:LEU:HB2	2.31	0.60
44:QC:395:PHE:CD1	44:QC:399:TYR:HB2	2.36	0.60
45:QD:4:ILE:CG2	45:QD:131:GLN:HB3	2.32	0.60
45:QD:100:ASN:ND2	45:QD:103:LYS:HB2	2.15	0.60
44:QG:439:THR:HG21	45:QH:390:ARG:HD2	1.84	0.60
44:QK:291:ILE:HG13	44:QK:292:THR:N	2.16	0.60
45:QL:6:HIS:CB	45:QL:62:ARG:HH12	2.14	0.60
45:QL:380:ARG:O	45:QL:384:GLN:HG2	2.02	0.60
44:RA:194:LEU:HB2	44:RA:198:THR:OG1	2.02	0.60
44:RA:223:THR:HG22	44:RA:226:ASN:OD1	2.01	0.60
44:RA:239:THR:HB	44:RA:242:LEU:HD12	1.84	0.60
44:RE:208:ALA:HB3	44:RE:302:MET:O	2.01	0.60
44:RG:145:THR:H	46:RG:501:GTP:PG	2.24	0.60
44:RG:384:ILE:O	44:RG:387:VAL:HG22	2.01	0.60
45:RH:139:LEU:HB2	45:RH:170:VAL:HG12	1.82	0.60
45:RH:318:ARG:O	45:RH:321:MET:HE1	2.01	0.60
44:RI:115:VAL:O	44:RI:119:LEU:HD23	2.02	0.60
45:RJ:269:GLY:HA2	45:RJ:300:MET:HE2	1.83	0.60
44:RK:137:VAL:HG12	44:RK:167:LEU:O	2.01	0.60
44:RK:174:SER:CB	44:RK:177:VAL:HB	2.32	0.60
44:RK:419:SER:O	44:RK:423:GLU:HG3	2.02	0.60
45:RL:250:LEU:O	45:RL:253:LEU:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:210:TYR:HE1	44:RM:227:LEU:HD11	1.66	0.60
45:RN:77:ARG:HA	45:RN:82:GLY:CA	2.32	0.60
45:RN:178:THR:HG21	45:RN:180:VAL:HG12	1.83	0.60
45:SF:317:PHE:HE2	45:SF:326:VAL:HG13	1.67	0.60
44:SG:363:VAL:CG2	44:SG:364:PRO:HD2	2.32	0.60
44:SI:104:ALA:HB2	44:SI:408:TYR:HD2	1.66	0.60
45:SL:7:ILE:O	45:SL:135:ILE:HD13	2.02	0.60
44:SM:26:LEU:CD2	44:SM:363:VAL:HA	2.31	0.60
45:TB:377:MET:O	45:TB:381:VAL:HG23	2.02	0.60
44:TE:89:PRO:CG	44:UE:280:LYS:HD2	2.31	0.60
45:TF:12:CYS:O	45:TF:16:ILE:HG12	2.01	0.60
45:TH:285:THR:HB	45:TH:287:PRO:HD2	1.83	0.60
45:TJ:323:THR:HG23	44:TK:223:THR:OG1	2.02	0.60
45:TL:100:ASN:OD1	45:TL:103:LYS:N	2.34	0.60
44:TM:324:VAL:HG13	44:TM:325:PRO:HD2	1.83	0.60
44:TM:329:ASN:ND2	45:TN:175:VAL:HB	2.17	0.60
45:TN:204:ASN:O	45:TN:207:LEU:HB2	2.02	0.60
44:UA:88:HIS:HB3	44:UA:91:GLN:OE1	2.01	0.60
44:UA:145:THR:O	44:UA:149:LEU:HD23	2.01	0.60
44:UA:431:ASP:HA	44:UA:434:GLU:CG	2.31	0.60
45:UB:235:GLY:HA2	45:UB:238:CYS:HB3	1.84	0.60
45:UB:278:SER:OG	45:UB:281:TYR:HB2	2.01	0.60
44:UE:184:PRO:HG3	44:UE:394:LYS:HE3	1.84	0.60
44:UE:263:PRO:HD3	45:UF:396:HIS:CD2	2.36	0.60
45:UF:3:GLU:O	45:UF:130:LEU:HD12	2.01	0.60
44:UG:31:GLN:HG3	44:UG:37:PRO:HD3	1.84	0.60
44:UG:278:ALA:HB2	44:UG:369:ALA:HB2	1.83	0.60
45:UH:3:GLU:CG	45:UH:127:CYS:HB2	2.32	0.60
44:UI:287:SER:O	44:UI:291:ILE:HG23	2.00	0.60
45:UJ:4:ILE:HG22	45:UJ:132:GLY:N	2.15	0.60
45:UJ:341:PHE:CZ	45:UJ:349:ILE:HD11	2.37	0.60
45:UJ:405:GLU:O	45:UJ:408:PHE:HB2	2.02	0.60
44:UK:107:HIS:O	44:UK:107:HIS:ND1	2.34	0.60
45:UL:329:GLN:O	45:UL:333:VAL:HG23	2.01	0.60
45:UN:133:PHE:N	45:UN:163:ILE:O	2.31	0.60
44:VA:102:ASN:ND2	44:VA:407:TRP:O	2.30	0.60
44:VA:209:ILE:CG2	44:VA:227:LEU:HD22	2.32	0.60
44:VC:221:ARG:HD2	45:VD:322:SER:OG	2.00	0.60
45:VD:423:GLN:HG3	45:VD:427:ASP:OD2	2.02	0.60
44:VG:294:SER:HA	44:VG:297:GLU:CG	2.32	0.60
44:VI:221:ARG:HA	45:VJ:324:LYS:HE3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:61:PRO:CD	45:VJ:84:LEU:HB3	2.31	0.60
44:VK:7:ILE:HG21	44:VK:153:LEU:HD23	1.83	0.60
45:VL:73:MET:O	45:VL:76:VAL:HG12	2.02	0.60
44:VM:201:ALA:HB3	44:VM:267:PHE:CD1	2.35	0.60
44:WA:54:SER:OG	44:WA:62:VAL:HB	2.01	0.60
44:WA:122:ILE:O	44:WA:125:LEU:N	2.35	0.60
44:WA:313:MET:HG2	44:WA:346:TRP:CH2	2.37	0.60
45:WB:42:LEU:CD2	45:WB:356:ILE:HD11	2.32	0.60
44:WG:2:ARG:NH2	44:WG:243:ARG:HA	2.16	0.60
45:WL:23:VAL:HG21	45:WL:230:SER:HB3	1.83	0.60
45:WL:28:HIS:ND1	45:WL:43:GLN:HG2	2.16	0.60
45:WL:256:ASN:C	45:WL:257:LEU:HD12	2.22	0.60
45:WL:304:ASP:OD1	45:WL:305:PRO:HD2	2.01	0.60
45:WN:382:ALA:O	45:WN:386:THR:HG23	2.00	0.60
3:OB:92:LEU:HA	44:JG:364:PRO:HG3	1.83	0.60
3:OB:174:TYR:OH	44:JI:82:THR:HG22	2.02	0.60
5:OD:93:GLN:HE22	44:EC:31:GLN:HA	1.64	0.60
8:1G:168:PHE:CE1	45:KD:70:PRO:HB2	2.36	0.60
9:1H:293:LYS:NZ	44:GC:57:GLY:O	2.33	0.60
25:1P:226:HIS:HA	44:TG:279:GLU:OE2	2.02	0.60
26:1R:99:VAL:HG22	44:AC:41:THR:O	2.00	0.60
15:1V:117:PRO:CB	45:LL:392:LYS:HD2	2.31	0.60
31:2H:212:ARG:CG	44:AC:364:PRO:HB3	2.30	0.60
32:2I:96:TRP:HB3	45:FF:125:GLU:CD	2.22	0.60
26:2R:193:TYR:CD1	44:AG:40:LYS:HG2	2.36	0.60
22:3L:45:ARG:HE	45:BB:362:LYS:CB	2.10	0.60
34:4F:215:THR:HG21	45:HN:56:GLY:C	2.21	0.60
11:5Q:92:GLN:HG2	11:5Q:152:LEU:HD12	1.83	0.60
36:5S:169:VAL:O	36:5S:175:ILE:HD11	2.01	0.60
40:6F:17:PHE:CD1	45:IF:53:GLU:HG2	2.34	0.60
41:6G:92:LEU:CD2	44:UK:96:LYS:HD3	2.32	0.60
41:6G:181:GLY:HA3	44:VE:338:LYS:HB3	1.82	0.60
11:6Q:148:TYR:OH	11:6Q:151:THR:N	2.33	0.60
35:7R:215:LEU:HD23	35:7R:215:LEU:H	1.67	0.60
42:8N:63:UNK:O	42:8N:67:UNK:N	2.34	0.60
44:AA:98:ASP:HB3	45:AB:249:ASP:OD2	2.01	0.60
45:AB:344:TRP:HE1	45:AB:428:ALA:HB3	1.67	0.60
44:AE:428:LEU:HD23	44:AE:428:LEU:O	2.01	0.60
44:AG:331:SER:O	44:AG:335:ILE:HG12	2.01	0.60
45:AH:113:ILE:CD1	45:AH:150:LEU:HD22	2.30	0.60
45:AN:198:GLU:OE2	45:AN:254:ALA:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:99:ALA:O	44:BA:105:ARG:HD3	2.01	0.60
44:BA:288:VAL:HG21	44:BA:327:ASP:CB	2.31	0.60
44:BC:4:VAL:HG23	44:BC:134:GLY:O	2.01	0.60
44:BC:224:TYR:HA	44:BC:227:LEU:HD12	1.84	0.60
45:BD:235:GLY:HA2	45:BD:238:CYS:HB3	1.83	0.60
44:BI:221:ARG:NH1	45:BJ:325:GLU:HB2	2.16	0.60
44:BI:257:THR:HA	45:BL:397:TRP:HH2	1.64	0.60
45:BJ:19:LYS:CB	45:BJ:226:ASN:HB3	2.32	0.60
45:BJ:178:THR:CB	45:BJ:181:GLU:HG3	2.21	0.60
44:BK:274:PRO:HG2	44:BK:286:LEU:HD12	1.83	0.60
45:CB:10:GLY:HA2	48:CB:501:GDP:O1A	2.02	0.60
44:CC:6:SER:O	44:CC:7:ILE:HD13	2.01	0.60
44:CC:11:GLN:HA	44:CC:14:ILE:CB	2.24	0.60
44:CC:11:GLN:CA	44:CC:14:ILE:HB	2.23	0.60
44:CC:119:LEU:HG	44:CC:156:ARG:HD3	1.83	0.60
44:CC:247:ALA:HB2	44:CC:357:TYR:CZ	2.37	0.60
45:CD:211:CYS:SG	45:CD:215:LEU:HD12	2.41	0.60
45:CD:319:GLY:CA	45:CD:357:PRO:HB3	2.32	0.60
44:CE:88:HIS:HB3	44:CE:91:GLN:CD	2.22	0.60
44:CE:320:ARG:HG2	44:CE:356:ASN:HB3	1.82	0.60
44:CG:325:PRO:HG3	45:CH:222:TYR:CE1	2.37	0.60
44:CI:276:ILE:HD11	44:CI:280:LYS:O	2.01	0.60
45:CJ:232:ALA:HB1	45:CJ:268:ILE:HD12	1.84	0.60
44:CK:70:LEU:HD12	44:CK:99:ALA:HB2	1.83	0.60
44:CK:209:ILE:HD11	44:CK:302:MET:SD	2.42	0.60
44:CK:348:PRO:HB2	45:CL:384:GLN:HG2	1.84	0.60
45:CL:8:GLN:OE1	45:CL:14:ASN:ND2	2.34	0.60
45:CL:255:VAL:CG2	44:CM:100:ALA:HB1	2.32	0.60
44:CM:35:GLN:OE1	44:CM:59:GLY:HA2	2.02	0.60
45:CN:63:ALA:O	45:CN:89:ASN:ND2	2.31	0.60
44:DA:190:SER:O	44:DA:194:LEU:N	2.30	0.60
44:DA:291:ILE:HG13	44:DA:292:THR:N	2.17	0.60
44:DC:348:PRO:HG2	45:DD:384:GLN:CG	2.27	0.60
44:DE:84:ARG:NH1	44:DE:85:GLN:OE1	2.35	0.60
44:DE:428:LEU:HG	44:DE:432:TYR:CE2	2.37	0.60
45:DF:117:LEU:HD21	45:DF:121:ARG:HH22	1.67	0.60
45:DF:325:GLU:HA	45:DF:328:GLU:HG2	1.84	0.60
45:DJ:345:ILE:HG23	45:DJ:348:ASN:HD21	1.65	0.60
45:DL:110:ALA:HA	45:DL:113:ILE:HG22	1.84	0.60
45:DL:113:ILE:CD1	45:DL:150:LEU:HD22	2.31	0.60
45:DL:395:LEU:O	45:DL:399:THR:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:257:THR:HA	45:DN:397:TRP:NE1	2.16	0.60
45:DN:268:ILE:CG2	45:DN:368:VAL:HG13	2.31	0.60
44:EA:23:LEU:HD11	44:EA:361:THR:HG23	1.83	0.60
44:EA:82:THR:HG23	44:EA:83:TYR:CD1	2.36	0.60
44:EC:9:VAL:HA	44:EC:68:LEU:O	2.02	0.60
44:EC:25:CYS:HA	44:EC:30:ILE:CD1	2.30	0.60
45:ED:324:LYS:O	45:ED:328:GLU:HG2	2.02	0.60
44:EE:115:VAL:O	44:EE:119:LEU:HD23	2.01	0.60
45:EF:257:LEU:HB3	45:EF:266:PHE:CE2	2.36	0.60
45:EF:316:LEU:HG	45:EF:352:SER:CB	2.19	0.60
44:EG:254:GLU:HG2	45:EH:98:GLY:HA3	1.83	0.60
45:EH:11:GLN:HB2	45:EH:72:THR:HG21	1.83	0.60
45:EH:328:GLU:O	45:EH:331:LEU:N	2.35	0.60
44:EI:264:ARG:HH11	44:EI:264:ARG:HG3	1.65	0.60
45:EN:4:ILE:CG2	45:EN:131:GLN:HB3	2.31	0.60
45:EN:116:VAL:HA	45:EN:119:VAL:HG21	1.84	0.60
45:EN:163:ILE:HD13	45:EN:251:ARG:CG	2.29	0.60
44:FA:288:VAL:HA	44:FA:291:ILE:CG1	2.29	0.60
45:FB:310:TYR:CD1	45:FB:371:SER:HB2	2.37	0.60
44:FC:174:SER:HB3	44:FC:207:GLU:HB2	1.84	0.60
44:FC:243:ARG:O	44:FC:243:ARG:HD2	2.01	0.60
45:FD:274:THR:HB	45:FD:282:ARG:NH1	2.15	0.60
44:FG:287:SER:HB3	44:FG:290:GLU:CD	2.22	0.60
45:FH:267:MET:CE	45:FH:371:SER:HB3	2.32	0.60
44:FK:119:LEU:CD2	44:FK:156:ARG:HD2	2.31	0.60
44:FK:141:VAL:HG12	44:FK:171:ILE:O	2.01	0.60
44:FK:268:MET:HE2	44:FK:380:ASN:HB2	1.84	0.60
44:FK:417:GLU:O	44:FK:420:GLU:HG2	2.02	0.60
44:FM:394:LYS:HD2	45:FN:346:PRO:HG3	1.82	0.60
45:FN:372:THR:HA	45:FN:422:TYR:HE2	1.66	0.60
44:GC:155:GLU:HG2	44:GC:197:HIS:NE2	2.16	0.60
45:GD:186:THR:O	45:GD:189:VAL:HG12	2.02	0.60
45:GD:345:ILE:HG23	45:GD:345:ILE:O	2.01	0.60
44:GE:188:ILE:HG21	44:GE:395:PHE:CD1	2.37	0.60
45:GF:135:ILE:HG13	45:GF:152:ILE:CD1	2.31	0.60
45:GJ:200:MET:SD	45:GJ:266:PHE:HB2	2.42	0.60
44:GK:100:ALA:O	45:GL:255:VAL:HG21	2.01	0.60
44:GK:224:TYR:CD2	45:GL:323:THR:HG21	2.36	0.60
44:HA:195:LEU:O	44:HA:266:HIS:NE2	2.35	0.60
44:HA:288:VAL:CA	44:HA:291:ILE:HG12	2.27	0.60
45:HB:203:ASP:N	45:HB:300:MET:O	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HD:51:TYR:HE1	45:HD:61:PRO:HG3	1.66	0.60
44:HE:9:VAL:HG11	44:HE:150:GLY:HA2	1.84	0.60
44:HE:238:LEU:HD21	44:HE:255:PHE:CZ	2.36	0.60
45:HF:3:GLU:CD	45:HF:127:CYS:HB2	2.22	0.60
44:HG:54:SER:HB3	44:HG:64:ARG:NH2	2.15	0.60
44:HI:53:PHE:HE2	44:HI:63:PRO:HG3	1.65	0.60
45:HJ:16:ILE:HD13	45:HJ:226:ASN:OD1	2.01	0.60
44:HM:169:PHE:HD1	44:HM:202:VAL:HB	1.66	0.60
44:HM:188:ILE:HD12	44:HM:425:LEU:CD1	2.30	0.60
45:HN:290:THR:HG21	45:HN:329:GLN:HB3	1.83	0.60
44:IA:174:SER:HB2	44:IA:177:VAL:O	2.00	0.60
45:IB:133:PHE:HB2	45:IB:164:MET:HG3	1.84	0.60
44:IG:174:SER:CB	44:IG:207:GLU:HB2	2.31	0.60
44:IK:274:PRO:HG3	44:IK:286:LEU:HD12	1.84	0.60
45:IL:240:LEU:O	45:IL:240:LEU:HD23	2.02	0.60
45:IL:325:GLU:HG3	45:IL:328:GLU:OE2	2.01	0.60
45:IN:132:GLY:HA3	45:IN:163:ILE:CG1	2.28	0.60
44:JA:427:ALA:O	44:JA:431:ASP:N	2.33	0.60
44:JC:68:LEU:HD11	44:JC:118:CYS:SG	2.40	0.60
44:JC:292:THR:CG2	44:JC:331:SER:HB2	2.27	0.60
44:JC:319:TYR:HB2	44:JC:355:ILE:HD13	1.84	0.60
44:JC:326:LYS:HZ1	45:JF:219:THR:HA	1.67	0.60
45:JF:285:THR:HA	45:JF:363:MET:CE	2.32	0.60
45:JH:178:THR:HG22	45:JH:180:VAL:H	1.67	0.60
45:JH:185:ALA:O	45:JH:188:SER:OG	2.17	0.60
45:JJ:113:ILE:CD1	45:JJ:150:LEU:HG	2.32	0.60
45:JJ:170:VAL:CG2	45:JJ:171:PRO:HD3	2.31	0.60
44:JK:121:ARG:O	44:JK:125:LEU:HG	2.01	0.60
44:JM:141:VAL:HG23	44:JM:170:THR:OG1	2.02	0.60
45:JN:288:GLU:OE1	45:JN:288:GLU:N	2.34	0.60
45:KB:62:ARG:HG2	45:KB:123:GLU:OE2	2.02	0.60
45:KB:286:VAL:HG11	45:KB:325:GLU:CB	2.32	0.60
44:KC:265:ILE:HG23	44:KC:432:TYR:OH	2.01	0.60
45:KD:73:MET:O	45:KD:76:VAL:HG12	2.02	0.60
44:KE:141:VAL:CG1	44:KE:187:SER:HA	2.32	0.60
44:KE:332:ILE:HD12	44:KE:351:PHE:CD2	2.36	0.60
45:KF:61:PRO:HD3	45:KF:86:ARG:HH11	1.67	0.60
44:KG:237:SER:HA	44:KG:320:ARG:HD2	1.84	0.60
45:KH:101:TRP:CE3	45:KH:187:LEU:HD23	2.37	0.60
45:KH:322:SER:OG	45:KH:325:GLU:HB2	2.02	0.60
44:KI:231:ILE:O	44:KI:234:VAL:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:195:LEU:HD11	44:KK:265:ILE:HA	1.82	0.60
44:KK:372:MET:HA	44:KK:372:MET:CE	2.30	0.60
44:KM:167:LEU:HD21	44:KM:252:ILE:HG23	1.82	0.60
44:KM:247:ALA:HB3	44:KM:355:ILE:HD11	1.84	0.60
45:KN:282:ARG:HG3	45:KN:284:LEU:HD22	1.84	0.60
45:KN:321:MET:HB3	45:KN:325:GLU:OE2	2.02	0.60
44:LC:2:ARG:O	44:LC:2:ARG:HG2	2.00	0.60
45:LD:67:ASP:HB3	45:LD:73:MET:CE	2.31	0.60
44:LE:54:SER:HB3	44:LE:64:ARG:CZ	2.31	0.60
45:LF:178:THR:HG22	45:LF:180:VAL:H	1.67	0.60
44:LI:229:ARG:CZ	44:LI:229:ARG:HB3	2.31	0.60
44:LM:153:LEU:O	44:LM:157:LEU:HG	2.02	0.60
44:LM:207:GLU:O	44:LM:210:TYR:HB2	2.02	0.60
44:LM:220:GLU:HB2	44:LM:221:ARG:HH11	1.67	0.60
45:MB:186:THR:O	45:MB:189:VAL:HG12	2.01	0.60
45:MD:60:VAL:CG2	45:MD:86:ARG:HD2	2.32	0.60
45:MD:206:ALA:O	45:MD:210:ILE:N	2.34	0.60
45:MF:330:MET:HE3	45:MF:330:MET:HA	1.83	0.60
45:MH:187:LEU:HD11	45:MH:408:PHE:CZ	2.36	0.60
45:MH:416:ASN:O	45:MH:419:VAL:HG12	2.01	0.60
45:ML:143:THR:HG23	45:ML:144:GLY:N	2.16	0.60
45:ML:287:PRO:O	45:ML:290:THR:HG22	2.01	0.60
45:NB:130:LEU:HD21	45:NB:133:PHE:CE1	2.36	0.60
45:NB:260:PHE:HB3	45:NB:261:PRO:HD2	1.83	0.60
44:NC:212:ILE:HD11	44:NC:300:ASN:HA	1.83	0.60
45:ND:186:THR:HG23	45:ND:415:MET:CE	2.31	0.60
45:NF:99:ASN:HD21	45:NF:178:THR:CG2	2.11	0.60
44:NG:288:VAL:CG2	44:NG:373:ARG:HD3	2.32	0.60
45:NH:193:VAL:HA	45:NH:264:HIS:CE1	2.36	0.60
45:NJ:99:ASN:HA	45:NJ:142:GLY:N	2.16	0.60
45:NL:217:LEU:O	45:NL:217:LEU:HD12	2.00	0.60
45:NL:305:PRO:HB2	45:NL:310:TYR:HE1	1.67	0.60
44:NM:305:CYS:HG	44:NM:387:VAL:N	2.00	0.60
45:NN:131:GLN:OE1	45:NN:250:LEU:HD12	2.01	0.60
44:OC:274:PRO:HD3	44:OC:374:ALA:HA	1.83	0.60
44:OE:29:GLY:O	44:OE:37:PRO:HG2	2.01	0.60
44:OE:205:ASP:OD2	44:OE:304:LYS:N	2.22	0.60
45:OF:193:VAL:HA	45:OF:264:HIS:CE1	2.37	0.60
44:OG:73:THR:HA	45:OH:46:ARG:NH2	2.15	0.60
44:OK:119:LEU:O	44:OK:122:ILE:HB	2.02	0.60
44:OM:103:PHE:H	44:OM:408:TYR:HE1	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:211:CYS:HA	45:ON:215:LEU:HB2	1.84	0.60
44:PA:318:MET:HG2	44:PA:376:CYS:O	2.02	0.60
45:PB:304:ASP:HB3	45:PB:307:HIS:CE1	2.37	0.60
45:PD:16:ILE:HD13	45:PD:226:ASN:OD1	2.01	0.60
45:PD:68:LEU:HG	45:PD:96:GLY:H	1.66	0.60
45:PD:114:ASP:OD1	45:PD:115:SER:N	2.34	0.60
45:PD:287:PRO:O	45:PD:290:THR:HG22	2.02	0.60
44:PE:276:ILE:HD13	44:PE:281:ALA:HA	1.83	0.60
45:PF:286:VAL:HB	45:PF:325:GLU:HG2	1.83	0.60
45:PF:290:THR:HG21	45:PF:329:GLN:HG2	1.82	0.60
45:PH:152:ILE:O	45:PH:155:VAL:HG12	2.01	0.60
44:PI:352:LYS:HB2	45:PL:179:VAL:HG13	1.82	0.60
45:PJ:49:VAL:HG12	45:PJ:50:TYR:CD1	2.36	0.60
44:PK:69:ASP:OD1	44:PK:71:GLU:N	2.28	0.60
45:PL:268:ILE:HG13	45:PL:300:MET:HE3	1.83	0.60
45:PN:317:PHE:HA	45:PN:365:VAL:HG13	1.82	0.60
44:QA:287:SER:O	44:QA:291:ILE:HG23	2.01	0.60
44:QC:199:ASP:O	44:QC:266:HIS:HB2	2.01	0.60
44:QC:245:ASP:O	44:QC:357:TYR:HB2	2.01	0.60
44:QC:287:SER:O	44:QC:291:ILE:N	2.26	0.60
45:QD:119:VAL:HG13	45:QD:122:LYS:CE	2.30	0.60
45:QD:272:PRO:HA	45:QD:292:GLN:NE2	2.16	0.60
45:QH:310:TYR:HA	45:QH:371:SER:OG	2.02	0.60
44:QI:258:ASN:ND2	44:QI:352:LYS:HD3	2.16	0.60
44:QI:332:ILE:O	44:QI:335:ILE:HG22	2.01	0.60
45:QJ:323:THR:HG21	44:QK:224:TYR:CD2	2.37	0.60
44:QK:204:LEU:HD13	44:QK:231:ILE:HD13	1.83	0.60
44:QK:270:SER:HA	44:QK:378:ILE:HA	1.83	0.60
44:QK:372:MET:SD	44:QK:373:ARG:HG3	2.41	0.60
45:QL:8:GLN:HG3	45:QL:14:ASN:OD1	2.01	0.60
45:QL:138:SER:CA	45:QL:169:VAL:HB	2.32	0.60
45:QL:200:MET:CE	45:QL:266:PHE:HB2	2.32	0.60
44:QM:211:ASP:O	44:QM:214:ARG:HG2	2.02	0.60
45:QN:136:THR:HA	45:QN:167:PHE:O	2.02	0.60
45:QN:372:THR:O	45:QN:375:GLN:HG2	2.01	0.60
45:QN:389:PHE:HZ	45:QN:405:GLU:HB2	1.66	0.60
44:RA:19:ALA:HA	44:RA:22:GLU:OE1	2.02	0.60
45:RB:92:PHE:O	45:RB:94:GLN:NE2	2.34	0.60
45:RB:182:PRO:HB2	45:RB:388:MET:CE	2.31	0.60
45:RD:395:LEU:HG	45:RD:399:THR:CG2	2.31	0.60
44:RE:141:VAL:HG22	44:RE:187:SER:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:316:SER:HA	44:RE:352:LYS:CG	2.31	0.60
44:RE:326:LYS:HG2	45:RF:220:PRO:CG	2.31	0.60
44:RI:105:ARG:CA	44:RI:109:THR:HB	2.29	0.60
44:RI:212:ILE:HD11	44:RI:300:ASN:HA	1.84	0.60
45:RJ:119:VAL:O	45:RJ:122:LYS:HG2	2.00	0.60
44:RK:75:ILE:HG13	44:RK:94:SER:CB	2.30	0.60
45:RL:67:ASP:HB3	45:RL:73:MET:HE2	1.84	0.60
44:RM:324:VAL:HG21	45:RN:220:PRO:O	2.01	0.60
44:SA:208:ALA:O	44:SA:212:ILE:HD12	2.02	0.60
44:SA:270:SER:CB	44:SA:378:ILE:HD13	2.32	0.60
44:SA:348:PRO:HD3	45:SB:388:MET:HG2	1.83	0.60
45:SB:252:LYS:NZ	46:SC:501:GTP:O1G	2.25	0.60
45:SD:286:VAL:O	45:SD:289:LEU:N	2.34	0.60
45:SF:104:GLY:O	45:SF:147:MET:N	2.35	0.60
44:SG:102:ASN:ND2	44:SG:411:GLU:HG3	2.17	0.60
44:SG:259:LEU:HD21	44:SG:316:SER:HB3	1.84	0.60
45:SH:295:ASP:CG	45:SH:297:LYS:HG2	2.22	0.60
44:SI:6:SER:HB2	44:SI:8:HIS:CE1	2.37	0.60
44:SI:22:GLU:HG3	44:SI:83:TYR:OH	2.01	0.60
44:SI:105:ARG:O	44:SI:110:ILE:HG12	2.01	0.60
44:SI:264:ARG:HG3	44:SI:264:ARG:HH11	1.66	0.60
45:SJ:62:ARG:HH12	45:SJ:127:CYS:HB3	1.67	0.60
44:SK:211:ASP:OD2	44:SK:304:LYS:NZ	2.29	0.60
44:SK:221:ARG:O	44:SK:221:ARG:HG2	2.01	0.60
44:SK:273:ALA:HB1	44:SK:274:PRO:HA	1.84	0.60
44:SK:408:TYR:HB3	44:SK:413:MET:CE	2.31	0.60
45:SL:20:PHE:CZ	45:SL:24:ILE:HD11	2.37	0.60
45:SL:49:VAL:HG11	45:SL:240:LEU:CD2	2.26	0.60
44:SM:119:LEU:O	44:SM:123:ARG:N	2.21	0.60
44:SM:203:MET:HB2	44:SM:303:ALA:HB2	1.81	0.60
45:TD:68:LEU:HD21	45:TD:147:MET:HE2	1.84	0.60
45:TD:112:LEU:O	45:TD:112:LEU:HD23	2.00	0.60
45:TD:214:THR:O	45:TD:216:LYS:HG3	2.02	0.60
44:TG:26:LEU:O	44:TG:26:LEU:HD23	2.02	0.60
44:TG:280:LYS:HA	44:TG:283:HIS:ND1	2.17	0.60
44:TI:176:GLN:N	44:TI:176:GLN:OE1	2.34	0.60
44:TI:237:SER:HA	44:TI:320:ARG:HH11	1.65	0.60
44:TI:260:VAL:HB	45:TJ:397:TRP:CZ2	2.30	0.60
45:TJ:2:ARG:CZ	45:TJ:240:LEU:HG	2.31	0.60
44:TK:261:PRO:HG3	45:TL:394:PHE:CZ	2.37	0.60
45:UB:377:MET:HA	45:UB:380:ARG:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:328:VAL:HG12	44:UC:332:ILE:HG12	1.84	0.60
45:UD:398:TYR:CB	45:UD:403:MET:HE3	2.32	0.60
44:UE:320:ARG:NH2	44:UE:360:PRO:HA	2.17	0.60
45:UF:47:ILE:HG12	45:UF:51:TYR:HB2	1.84	0.60
45:UH:284:LEU:HD22	45:UH:363:MET:SD	2.41	0.60
45:UH:305:PRO:HA	45:UH:373:ALA:CB	2.31	0.60
45:UH:310:TYR:HB2	45:UH:341:PHE:CD1	2.36	0.60
45:UJ:111:GLU:OE1	45:UJ:112:LEU:HD22	2.01	0.60
44:UM:350:GLY:HA2	45:UN:179:VAL:HG11	1.84	0.60
45:UN:85:PHE:HB3	45:UN:90:PHE:HE1	1.65	0.60
45:UN:102:ALA:HB2	45:UN:403:MET:CE	2.31	0.60
45:VB:205:GLU:O	45:VB:209:ASP:N	2.29	0.60
45:VD:163:ILE:HG12	45:VD:251:ARG:NH1	2.16	0.60
44:VE:71:GLU:OE2	44:VE:73:THR:OG1	2.11	0.60
45:VF:11:GLN:HG3	45:VF:72:THR:OG1	2.00	0.60
45:VH:284:LEU:HB3	45:VH:363:MET:HE1	1.83	0.60
45:VH:286:VAL:CG1	45:VH:325:GLU:HG2	2.31	0.60
45:VH:345:ILE:O	45:VH:345:ILE:HG23	2.00	0.60
45:VJ:183:TYR:HE2	45:VJ:394:PHE:HB2	1.66	0.60
45:VJ:270:PHE:HD2	45:VJ:273:LEU:HD21	1.67	0.60
45:VL:189:VAL:O	45:VL:193:VAL:HG12	2.02	0.60
45:VL:207:LEU:HG	45:VL:300:MET:HE1	1.83	0.60
44:VM:315:CYS:N	44:VM:350:GLY:O	2.31	0.60
45:VN:193:VAL:HG23	45:VN:264:HIS:HE1	1.66	0.60
44:WA:157:LEU:HD23	44:WA:161:TYR:CE1	2.37	0.60
45:WB:113:ILE:CD1	45:WB:150:LEU:HD22	2.31	0.60
44:WC:67:PHE:C	44:WC:68:LEU:HD12	2.22	0.60
45:WD:24:ILE:HG23	45:WD:28:HIS:CD2	2.32	0.60
44:WE:172:TYR:HB3	44:WE:173:PRO:HD2	1.82	0.60
45:WF:10:GLY:O	45:WF:14:ASN:N	2.24	0.60
45:WF:291:GLN:NE2	45:WF:292:GLN:HG2	2.17	0.60
44:WG:13:GLY:HA2	44:WG:16:VAL:CG2	2.32	0.60
45:WJ:191:GLN:OE1	45:WJ:191:GLN:HA	2.00	0.60
45:WL:262:ARG:HA	45:WL:264:HIS:HD2	1.65	0.60
44:WM:324:VAL:HG12	44:WM:326:LYS:HG3	1.83	0.60
3:OB:154:PHE:CD1	44:II:32:PRO:HG2	2.37	0.60
5:OD:74:GLN:HA	45:DB:55:THR:HB	1.84	0.60
5:ID:59:GLY:HA3	44:EG:279:GLU:HG3	1.83	0.60
20:1J:144:THR:HG22	44:IE:372:MET:SD	2.41	0.60
21:1K:183:TYR:CD1	45:GD:362:LYS:HG2	2.36	0.60
25:1P:222:LEU:HD22	44:TG:282:TYR:CE2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1Q:100:ARG:HH22	44:AC:434:GLU:HG2	1.66	0.60
5:2D:38:ILE:HG23	44:EK:280:LYS:HD3	1.83	0.60
6:2E:50:ILE:HG12	35:5R:382:TYR:HB3	1.83	0.60
32:2I:20:LEU:HD22	44:GG:308:ARG:NH2	2.16	0.60
32:2I:130:PHE:HA	44:FC:96:LYS:HE3	1.83	0.60
22:2L:668:GLN:NE2	44:CM:367:ASP:OD1	2.29	0.60
23:2M:80:PHE:CD2	44:IG:39:ASP:HB2	2.36	0.60
16:2X:53:ILE:HD11	44:MI:279:GLU:HA	1.84	0.60
32:3I:221:TRP:CE3	45:GL:291:GLN:HG2	2.37	0.60
35:4R:315:MET:HG2	45:CF:26:ASP:OD2	2.01	0.60
37:5C:104:PRO:HB3	44:KI:390:ARG:NH2	2.14	0.60
38:5H:113:LEU:HG	38:5H:114:PRO:HD2	1.83	0.60
11:5Q:78:MET:HG2	11:5Q:80:ILE:HG12	1.84	0.60
35:5R:425:ARG:HD2	44:EI:40:LYS:NZ	2.16	0.60
35:5R:519:LYS:HG2	35:5R:522:VAL:CG1	2.32	0.60
40:6F:58:GLU:OE2	40:6F:60:LYS:N	2.35	0.60
41:6G:306:GLU:HB2	45:VB:306:ARG:HH21	1.66	0.60
11:6Q:71:ILE:O	11:6Q:150:GLU:HA	2.01	0.60
45:AD:316:LEU:HB2	45:AD:366:THR:CG2	2.32	0.60
45:AF:60:VAL:CG2	45:AF:86:ARG:HH11	2.15	0.60
45:AJ:40:SER:OG	45:AJ:43:GLN:HG3	2.01	0.60
45:AJ:247:ASN:O	45:AJ:252:LYS:NZ	2.34	0.60
44:AK:349:THR:HG23	44:AK:349:THR:O	2.00	0.60
44:AM:167:LEU:HG	44:AM:200:VAL:CG1	2.30	0.60
45:AN:217:LEU:HD12	45:AN:217:LEU:O	2.02	0.60
45:BF:259:PRO:HG2	45:BF:263:LEU:HD23	1.84	0.60
44:BI:102:ASN:HB3	44:BI:105:ARG:CG	2.26	0.60
45:CB:267:MET:CE	45:CB:371:SER:HB3	2.32	0.60
45:CD:104:GLY:O	45:CD:147:MET:N	2.34	0.60
45:CF:260:PHE:CE1	44:CG:403:ALA:HA	2.36	0.60
45:CH:24:ILE:CG1	45:CH:233:MET:HE1	2.31	0.60
45:CH:152:ILE:HD12	45:CH:164:MET:HE3	1.83	0.60
44:CI:284:GLU:OE1	44:CI:286:LEU:HD22	2.01	0.60
44:CK:88:HIS:HB3	44:CK:91:GLN:CG	2.32	0.60
45:CL:100:ASN:ND2	45:CL:103:LYS:HB2	2.12	0.60
45:CL:265:PHE:HB2	45:CL:374:ILE:CD1	2.32	0.60
44:CM:23:LEU:HD23	44:CM:236:SER:HB3	1.83	0.60
44:CM:141:VAL:HG22	44:CM:187:SER:HA	1.83	0.60
45:CN:19:LYS:HG2	45:CN:226:ASN:C	2.22	0.60
45:CN:170:VAL:O	45:CN:170:VAL:HG23	2.02	0.60
44:DC:36:MET:SD	44:DC:37:PRO:HD2	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:1:MET:HB2	45:DF:2:ARG:NH1	2.16	0.60
45:DF:189:VAL:HG11	45:DF:415:MET:CE	2.32	0.60
45:DF:280:GLN:HG2	45:DF:281:TYR:CD1	2.36	0.60
45:DF:322:SER:HB3	44:DG:221:ARG:NE	2.17	0.60
45:DH:178:THR:N	45:DH:181:GLU:OE2	2.34	0.60
45:DJ:51:TYR:HE1	45:DJ:61:PRO:HG3	1.67	0.60
44:DK:390:ARG:HG3	44:DK:391:LEU:HD12	1.83	0.60
45:DL:376:GLU:HA	45:DL:380:ARG:HH22	1.66	0.60
45:DN:260:PHE:HD2	45:DN:263:LEU:HD22	1.65	0.60
45:DN:309:ARG:NH1	45:DN:342:VAL:HG23	2.16	0.60
45:DN:403:MET:HG3	45:DN:407:GLU:OE2	2.02	0.60
45:EB:316:LEU:HA	45:EB:352:SER:OG	2.02	0.60
45:EB:360:GLY:O	45:EB:361:LEU:HD23	2.02	0.60
44:EC:141:VAL:HG13	44:EC:187:SER:OG	2.01	0.60
45:ED:49:VAL:HG21	45:ED:241:ARG:CG	2.32	0.60
45:ED:342:VAL:HG13	45:ED:345:ILE:HG22	1.83	0.60
45:EF:285:THR:O	45:EF:289:LEU:HG	2.01	0.60
45:EF:345:ILE:CA	44:EG:398:MET:HE1	2.26	0.60
44:EG:88:HIS:CB	44:EG:91:GLN:HG3	2.20	0.60
45:EH:19:LYS:O	45:EH:23:VAL:N	2.23	0.60
44:EK:141:VAL:HG11	44:EK:172:TYR:HA	1.84	0.60
44:FA:172:TYR:CD2	44:FA:203:MET:HE2	2.37	0.60
45:FB:40:SER:OG	45:FB:43:GLN:HG3	2.01	0.60
45:FB:97:ALA:HB3	45:FB:143:THR:HB	1.83	0.60
44:FC:88:HIS:O	44:FC:91:GLN:HG2	2.00	0.60
45:FD:21:TRP:HZ3	45:FD:61:PRO:CB	2.13	0.60
45:FH:33:THR:HG1	45:FH:34:GLY:N	2.00	0.60
45:FH:132:GLY:HA3	45:FH:163:ILE:HG22	1.84	0.60
45:FL:230:SER:HA	45:FL:233:MET:HE2	1.84	0.60
44:FM:340:THR:HG23	44:FM:341:ILE:HG13	1.84	0.60
45:FN:16:ILE:CG2	45:FN:229:VAL:HG11	2.32	0.60
45:FN:207:LEU:HD23	45:FN:210:ILE:CD1	2.31	0.60
44:GA:313:MET:CE	44:GA:435:VAL:HG12	2.32	0.60
44:GA:406:HIS:O	44:GA:410:GLY:N	2.32	0.60
44:GA:417:GLU:O	44:GA:420:GLU:HG2	2.01	0.60
45:GB:377:MET:HA	45:GB:380:ARG:CD	2.32	0.60
45:GD:237:THR:CG2	45:GD:240:LEU:HD22	2.31	0.60
45:GF:46:ARG:HG3	45:GF:46:ARG:HH11	1.66	0.60
44:GG:9:VAL:HG11	44:GG:150:GLY:HA2	1.83	0.60
44:GG:257:THR:HA	45:GJ:397:TRP:NE1	2.16	0.60
44:GG:268:MET:CB	44:GG:380:ASN:HB2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:13:GLY:HA2	44:GK:16:VAL:HG22	1.83	0.60
45:GL:101:TRP:HB3	45:GL:398:TYR:HE1	1.67	0.60
45:GL:105:HIS:HB2	45:GL:146:GLY:HA3	1.83	0.60
45:GL:214:THR:O	45:GL:216:LYS:HG3	2.02	0.60
44:HA:155:GLU:HA	44:HA:197:HIS:CE1	2.36	0.60
44:HC:251:ASP:HB2	44:HC:254:GLU:HG2	1.83	0.60
45:HD:54:ALA:HB1	45:ID:282:ARG:O	2.01	0.60
45:HD:187:LEU:HD11	45:HD:408:PHE:CE1	2.37	0.60
44:HG:183:GLU:HG2	44:HG:184:PRO:HD3	1.83	0.60
45:HH:325:GLU:CA	45:HH:328:GLU:HG2	2.30	0.60
45:HJ:193:VAL:HA	45:HJ:264:HIS:NE2	2.16	0.60
45:HL:61:PRO:HD2	45:HL:84:LEU:O	2.02	0.60
44:HM:115:VAL:CG2	44:HM:156:ARG:HD2	2.31	0.60
45:HN:103:LYS:HG3	45:HN:107:THR:OG1	2.02	0.60
45:HN:137:HIS:CD2	45:HN:168:SER:HG	2.20	0.60
45:HN:184:ASN:OD1	45:HN:185:ALA:N	2.35	0.60
45:HN:187:LEU:HD11	45:HN:408:PHE:HE1	1.66	0.60
45:HN:342:VAL:HG13	45:HN:345:ILE:CG2	2.32	0.60
45:HN:344:TRP:CB	45:HN:430:ALA:HB2	2.29	0.60
44:IA:221:ARG:HG3	44:IA:221:ARG:O	2.02	0.60
45:IB:148:GLY:O	45:IB:152:ILE:HG12	2.01	0.60
44:IC:11:GLN:HE21	44:IC:15:GLN:HE21	1.50	0.60
44:II:284:GLU:HG3	44:II:286:LEU:HD22	1.83	0.60
45:IJ:72:THR:HG23	45:IJ:73:MET:HE3	1.84	0.60
45:IL:88:ASP:HA	45:IL:116:VAL:CG2	2.32	0.60
44:IM:210:TYR:CB	45:IN:324:LYS:HZ3	2.15	0.60
45:IN:268:ILE:HA	45:IN:367:PHE:O	2.02	0.60
44:JC:332:ILE:HG23	44:JC:351:PHE:CD1	2.36	0.60
45:JD:165:GLU:OE2	45:JD:250:LEU:HD22	2.02	0.60
45:JD:337:ASN:HB3	45:JD:340:TYR:HD2	1.67	0.60
45:JF:134:GLN:HA	45:JF:165:GLU:O	2.01	0.60
44:JG:199:ASP:O	44:JG:266:HIS:HB2	2.02	0.60
45:JH:294:PHE:HD2	45:JH:333:VAL:HG21	1.67	0.60
44:JI:173:PRO:HB3	44:JI:183:GLU:OE1	2.00	0.60
44:JK:11:GLN:N	46:JK:501:GTP:O1B	2.34	0.60
44:JK:279:GLU:OE1	44:JK:279:GLU:N	2.34	0.60
44:KA:202:VAL:HG13	44:KA:269:LEU:CA	2.32	0.60
45:KB:207:LEU:CD2	45:KB:228:LEU:HD23	2.32	0.60
45:KB:285:THR:HA	45:KB:363:MET:CE	2.32	0.60
45:KD:2:ARG:HB2	45:KD:131:GLN:HG2	1.84	0.60
45:KF:1:MET:N	45:KF:3:GLU:OE1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:167:PHE:CE1	45:KF:233:MET:HG2	2.37	0.60
45:KF:325:GLU:HA	45:KF:328:GLU:CG	2.30	0.60
44:KG:139:ASN:OD1	44:KG:170:THR:HG22	2.02	0.60
45:KL:131:GLN:HE22	45:KL:250:LEU:CB	2.14	0.60
44:KM:270:SER:O	44:KM:302:MET:HB3	2.01	0.60
45:KN:163:ILE:HD13	45:KN:251:ARG:NE	2.17	0.60
44:LA:75:ILE:O	44:LA:78:VAL:HG12	2.01	0.60
44:LG:254:GLU:CG	45:LJ:98:GLY:HA2	2.27	0.60
44:LG:363:VAL:CG1	44:LG:364:PRO:HD2	2.32	0.60
45:LL:117:LEU:HB3	45:LL:121:ARG:HH12	1.65	0.60
44:LM:184:PRO:HG3	44:LM:394:LYS:NZ	2.16	0.60
45:MB:172:SER:OG	45:MB:205:GLU:OE1	2.18	0.60
44:MC:71:GLU:HG2	45:MD:247:ASN:HD21	1.66	0.60
44:MC:221:ARG:NE	45:MD:322:SER:HB3	2.17	0.60
45:MD:19:LYS:O	45:MD:23:VAL:HG13	2.02	0.60
45:MF:28:HIS:ND1	45:MF:47:ILE:HG13	2.17	0.60
45:MF:102:ALA:HB1	45:MF:401:GLU:HB2	1.82	0.60
45:MF:189:VAL:CG2	45:MF:415:MET:HE1	2.31	0.60
44:MG:106:GLY:O	44:MG:148:GLY:HA3	2.02	0.60
44:MG:258:ASN:C	44:MG:259:LEU:HD22	2.21	0.60
45:MJ:203:ASP:OD2	45:MJ:302:ALA:N	2.31	0.60
44:MM:273:ALA:HB1	44:MM:274:PRO:HA	1.82	0.60
44:MM:363:VAL:CG2	44:MM:364:PRO:HD2	2.32	0.60
45:MN:178:THR:HG22	45:MN:180:VAL:H	1.66	0.60
44:NA:108:TYR:N	44:NA:112:LYS:HZ2	1.98	0.60
44:NA:316:SER:HB3	44:NA:378:ILE:HB	1.82	0.60
45:ND:317:PHE:HB2	45:ND:352:SER:O	2.01	0.60
44:NE:223:THR:HG22	44:NE:224:TYR:N	2.17	0.60
44:NE:235:ILE:O	44:NE:239:THR:HG22	2.02	0.60
45:NF:116:VAL:HA	45:NF:119:VAL:HG12	1.83	0.60
45:NF:286:VAL:HB	45:NF:325:GLU:OE1	2.02	0.60
44:NM:258:ASN:O	44:NM:259:LEU:HD23	2.01	0.60
44:OA:97:GLU:OE1	44:OA:97:GLU:HA	2.01	0.60
44:OG:208:ALA:H	44:OG:304:LYS:NZ	1.99	0.60
44:OK:9:VAL:CG2	44:OK:139:ASN:HB3	2.24	0.60
44:OK:75:ILE:O	44:OK:78:VAL:HG12	2.01	0.60
44:OM:212:ILE:HD11	44:OM:299:ALA:O	2.00	0.60
45:ON:293:MET:HG2	45:ON:365:VAL:HG21	1.83	0.60
45:PB:22:GLU:HG2	45:PB:81:PHE:CG	2.37	0.60
44:PC:68:LEU:HA	44:PC:93:ILE:O	2.02	0.60
44:PC:88:HIS:CE1	44:PC:90:GLU:HG2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:137:VAL:HG12	44:PE:167:LEU:O	2.01	0.60
44:PG:290:GLU:O	44:PG:293:ASN:HB2	2.01	0.60
45:PH:202:ILE:HD13	45:PH:229:VAL:HG22	1.82	0.60
45:PH:318:ARG:HH11	45:PH:358:PRO:CG	2.13	0.60
44:PI:306:ASP:HB3	44:PI:309:HIS:NE2	2.17	0.60
44:PK:106:GLY:HA3	44:PK:148:GLY:HA3	1.84	0.60
44:PK:136:LEU:HA	44:PK:167:LEU:O	2.01	0.60
44:PK:284:GLU:HG3	44:PK:286:LEU:HD12	1.83	0.60
45:PL:99:ASN:C	45:PL:142:GLY:HA3	2.21	0.60
44:QA:273:ALA:HB3	44:QA:375:VAL:HG13	1.84	0.60
44:QC:244:PHE:CZ	44:QC:358:GLN:HG2	2.37	0.60
44:QE:169:PHE:HB3	44:QE:204:LEU:CD1	2.32	0.60
45:QF:73:MET:CE	45:QF:73:MET:HA	2.31	0.60
44:QG:313:MET:HB2	44:QG:346:TRP:CH2	2.37	0.60
45:QH:382:ALA:HB2	45:QH:415:MET:HE2	1.83	0.60
44:QI:103:PHE:CE1	44:QI:148:GLY:HA2	2.37	0.60
45:QL:317:PHE:HB2	45:QL:352:SER:O	2.00	0.60
44:QM:167:LEU:HD11	44:QM:252:ILE:HG21	1.81	0.60
44:QM:312:TYR:O	44:QM:343:PHE:HA	2.02	0.60
44:QM:325:PRO:O	44:QM:328:VAL:HB	2.02	0.60
45:RF:86:ARG:HH21	45:RF:87:PRO:CG	2.14	0.60
44:RG:20:CYS:HA	44:RG:232:ALA:CB	2.31	0.60
44:RG:416:GLY:O	44:RG:419:SER:HB3	2.02	0.60
45:RH:390:ARG:HH11	45:RH:391:ARG:HD3	1.65	0.60
44:RI:174:SER:HB2	44:RI:177:VAL:CG1	2.31	0.60
45:RJ:221:THR:HG22	45:RJ:224:ASP:OD2	2.02	0.60
44:RK:98:ASP:O	44:RK:105:ARG:NH1	2.34	0.60
44:RK:276:ILE:HG12	44:RK:281:ALA:HA	1.84	0.60
45:RL:199:CYS:HB3	45:RL:265:PHE:HA	1.84	0.60
45:RL:317:PHE:CE1	45:RL:326:VAL:HG13	2.37	0.60
44:RM:203:MET:CE	44:RM:387:VAL:HG11	2.32	0.60
44:SA:34:GLY:O	44:SA:60:LYS:HA	2.01	0.60
45:SB:286:VAL:CA	45:SB:289:LEU:HB2	2.30	0.60
45:SB:289:LEU:O	45:SB:293:MET:N	2.34	0.60
45:SB:337:ASN:HB3	45:SB:340:TYR:HD2	1.65	0.60
44:SC:195:LEU:HD21	44:SC:264:ARG:NH2	2.15	0.60
44:SG:276:ILE:HG12	44:SG:281:ALA:HB2	1.83	0.60
45:SH:290:THR:HG21	45:SH:329:GLN:OE1	2.01	0.60
44:SI:102:ASN:HB3	44:SI:105:ARG:HE	1.67	0.60
45:SL:25:SER:O	45:SL:29:GLY:N	2.35	0.60
45:SL:135:ILE:HG13	45:SL:152:ILE:CD1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:283:ALA:O	45:SL:288:GLU:HG3	2.02	0.60
44:SM:11:GLN:OE1	44:SM:11:GLN:N	2.30	0.60
44:SM:137:VAL:O	44:SM:168:GLY:HA2	2.00	0.60
45:TF:8:GLN:CG	45:TF:65:LEU:HG	2.31	0.60
45:TF:229:VAL:HG12	45:TF:233:MET:HG3	1.83	0.60
45:TH:4:ILE:HD11	45:TH:50:TYR:OH	2.01	0.60
44:TI:184:PRO:HB3	44:TI:394:LYS:HD2	1.83	0.60
44:TI:439:THR:HG21	45:TJ:390:ARG:HD2	1.82	0.60
44:TK:224:TYR:HA	44:TK:227:LEU:HD12	1.84	0.60
45:TL:165:GLU:OE2	45:TL:250:LEU:HD22	2.02	0.60
45:TL:211:CYS:O	45:TL:216:LYS:N	2.35	0.60
44:TM:119:LEU:HG	44:TM:156:ARG:HD3	1.84	0.60
44:TM:326:LYS:HG2	45:TN:220:PRO:HD2	1.84	0.60
44:UC:22:GLU:N	44:UC:22:GLU:OE1	2.28	0.60
44:UC:247:ALA:HB1	45:UD:222:TYR:CE2	2.37	0.60
44:UE:313:MET:HB2	44:UE:346:TRP:CH2	2.37	0.60
45:UF:42:LEU:HA	45:UF:45:GLU:HG2	1.84	0.60
45:UF:202:ILE:HG23	45:UF:300:MET:CG	2.31	0.60
45:UF:304:ASP:OD1	45:UF:306:ARG:HG2	2.02	0.60
44:UI:313:MET:HG3	44:UI:346:TRP:CH2	2.37	0.60
45:UJ:113:ILE:CD1	45:UJ:150:LEU:HD22	2.31	0.60
45:UJ:267:MET:HG2	45:UJ:301:CYS:SG	2.42	0.60
44:UK:233:GLN:O	44:UK:236:SER:OG	2.04	0.60
45:UN:105:HIS:ND1	45:UN:150:LEU:HD12	2.15	0.60
45:UN:252:LYS:HG2	45:UN:256:ASN:HD21	1.65	0.60
44:VA:252:ILE:HA	44:VA:255:PHE:HE2	1.63	0.60
44:VC:55:GLU:HG3	44:VC:57:GLY:H	1.66	0.60
44:VE:115:VAL:O	44:VE:119:LEU:HD23	2.02	0.60
45:VH:114:ASP:OD1	45:VH:115:SER:N	2.34	0.60
44:VI:204:LEU:HD23	44:VI:302:MET:HG2	1.82	0.60
45:VJ:117:LEU:HD12	45:VJ:118:ASP:N	2.17	0.60
44:VK:260:VAL:HB	45:VN:397:TRP:CZ2	2.31	0.60
45:VL:211:CYS:SG	45:VL:215:LEU:HD12	2.42	0.60
44:VM:316:SER:N	44:VM:378:ILE:O	2.34	0.60
44:WA:287:SER:O	44:WA:291:ILE:HG12	2.01	0.60
45:WB:257:LEU:O	45:WB:258:ILE:HD13	2.01	0.60
44:WC:141:VAL:HG12	44:WC:171:ILE:O	2.00	0.60
45:WD:285:THR:H	45:WD:288:GLU:HB2	1.66	0.60
44:WG:54:SER:N	44:WG:64:ARG:HH12	2.00	0.60
45:WH:237:THR:OG1	45:WH:241:ARG:NH2	2.34	0.60
44:WK:287:SER:HB3	44:WK:290:GLU:HG2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:407:TRP:HZ3	45:WL:255:VAL:HA	1.67	0.60
44:WM:383:ALA:O	44:WM:386:GLU:HG2	2.01	0.60
45:WN:36:TYR:CG	45:WN:44:LEU:HD11	2.36	0.60
8:0G:31:MET:CE	45:JL:279:GLN:HB3	2.31	0.60
9:1H:297:THR:CG2	44:GC:58:ALA:HA	2.32	0.60
22:1L:148:ARG:HH22	45:CH:39:ASP:HB3	1.66	0.60
25:1P:341:LEU:HD21	44:TC:26:LEU:HD22	1.82	0.60
22:2L:555:LYS:CE	45:BN:320:ARG:HH11	2.13	0.60
26:2R:93:VAL:HA	44:AG:370:LYS:CE	2.32	0.60
15:2V:70:THR:CA	45:LF:121:ARG:HD3	2.31	0.60
16:2X:99:VAL:HG23	44:MG:370:LYS:NZ	2.15	0.60
37:5D:57:PRO:O	45:KN:384:GLN:HB2	2.02	0.60
38:5G:113:LEU:CD1	38:5G:114:PRO:HD2	2.32	0.60
38:5G:202:LYS:HE2	38:5G:203:PHE:CZ	2.37	0.60
35:5R:113:ILE:HD13	35:5R:207:ASP:HB3	1.84	0.60
36:5S:128:LEU:HB2	36:5S:167:LYS:NZ	2.17	0.60
11:6Q:118:ILE:HD11	44:AM:264:ARG:HH12	1.65	0.60
35:6R:318:TYR:CD2	35:6R:321:MET:SD	2.90	0.60
35:7R:321:MET:HE3	45:CB:361:LEU:HD21	1.84	0.60
35:7R:447:PHE:HB2	35:7R:452:THR:CB	2.31	0.60
43:8R:172:UNK:CD1	44:PG:370:LYS:HE3	2.32	0.60
44:AA:239:THR:HB	44:AA:243:ARG:HH12	1.67	0.60
45:AB:321:MET:HE3	45:AB:363:MET:HG3	1.82	0.60
44:AC:181:VAL:HG12	45:AD:256:ASN:HB3	1.82	0.60
44:AC:283:HIS:HD1	44:MC:89:PRO:HD3	1.64	0.60
45:AD:164:MET:O	45:AD:197:ASP:HB2	2.02	0.60
45:AF:67:ASP:OD1	45:AF:68:LEU:N	2.32	0.60
44:AG:270:SER:O	44:AG:302:MET:HB2	2.02	0.60
45:AH:1:MET:CE	45:AH:2:ARG:HD3	2.32	0.60
44:AI:87:PHE:CB	44:AI:92:LEU:HD11	2.32	0.60
44:AK:325:PRO:HG3	45:AN:222:TYR:CD2	2.37	0.60
45:AL:1:MET:O	45:AL:2:ARG:HG2	2.01	0.60
45:AL:60:VAL:HG23	45:AL:84:LEU:O	2.02	0.60
45:AL:112:LEU:HD23	45:AL:112:LEU:O	2.02	0.60
45:AL:207:LEU:HB3	45:AL:225:LEU:CD2	2.32	0.60
45:AN:239:CYS:HG	45:AN:248:SER:HG	1.49	0.60
44:BA:314:ALA:O	44:BA:380:ASN:N	2.32	0.60
45:BF:285:THR:HG22	45:BF:287:PRO:CD	2.32	0.60
45:BH:67:ASP:OD1	45:BH:68:LEU:N	2.33	0.60
45:BH:302:ALA:HB3	45:BH:377:MET:HE2	1.84	0.60
44:BK:118:CYS:O	44:BK:122:ILE:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:86:ARG:HG3	45:CL:281:TYR:CB	2.31	0.60
45:BN:403:MET:CE	45:BN:404:ASP:H	2.15	0.60
44:CA:317:MET:CE	44:CA:377:MET:HB2	2.32	0.60
44:CC:28:HIS:CE1	44:CC:48:ALA:HB1	2.36	0.60
45:CD:309:ARG:HD2	45:CD:341:PHE:C	2.23	0.60
44:CE:278:ALA:CA	44:CE:369:ALA:HB2	2.32	0.60
44:CG:18:ASN:O	44:CG:22:GLU:OE1	2.18	0.60
44:CG:183:GLU:HG2	44:CG:184:PRO:HD3	1.81	0.60
45:CH:54:ALA:HA	45:DH:283:ALA:HB2	1.83	0.60
44:CI:1:MET:HE1	45:CJ:94:GLN:HG2	1.84	0.60
45:CJ:246:LEU:HD11	44:CK:224:TYR:HE2	1.67	0.60
44:CK:276:ILE:CD1	44:CK:280:LYS:HG3	2.30	0.60
44:CK:304:LYS:CE	44:CK:387:VAL:HG21	2.32	0.60
45:CL:344:TRP:CZ3	45:CL:345:ILE:HB	2.37	0.60
44:CM:141:VAL:HG21	44:CM:187:SER:HA	1.82	0.60
44:CM:176:GLN:NE2	44:CM:207:GLU:OE2	2.35	0.60
44:CM:254:GLU:OE2	45:CN:98:GLY:HA2	2.02	0.60
44:CM:289:ALA:O	44:CM:292:THR:HG22	2.02	0.60
44:CM:338:LYS:NZ	44:CM:340:THR:HG22	2.17	0.60
45:CN:193:VAL:O	45:CN:193:VAL:HG22	2.02	0.60
45:CN:304:ASP:OD1	45:CN:306:ARG:HG2	2.01	0.60
45:CN:425:TYR:HA	45:CN:428:ALA:HB2	1.81	0.60
44:DA:23:LEU:CD1	44:DA:361:THR:HG23	2.32	0.60
44:DA:191:THR:O	44:DA:195:LEU:N	2.35	0.60
44:DA:209:ILE:CG2	44:DA:227:LEU:HD22	2.32	0.60
44:DA:276:ILE:H	44:DA:368:LEU:HD13	1.67	0.60
45:DB:266:PHE:CE1	45:DB:370:ASN:HB2	2.37	0.60
44:DC:176:GLN:OE1	44:DC:176:GLN:N	2.33	0.60
44:DC:351:PHE:HB2	45:DD:176:SER:OG	2.02	0.60
44:DI:174:SER:HB2	44:DI:177:VAL:O	2.02	0.60
45:DJ:377:MET:O	45:DJ:380:ARG:HG2	2.02	0.60
44:DK:229:ARG:HH22	44:DK:363:VAL:HG21	1.66	0.60
44:DK:242:LEU:HD11	44:DK:252:ILE:CG1	2.32	0.60
45:DL:403:MET:HA	45:DL:403:MET:HE2	1.84	0.60
44:DM:217:LEU:CD2	44:DM:367:ASP:HB3	2.24	0.60
44:EC:139:ASN:O	44:EC:171:ILE:HG13	2.02	0.60
44:EC:145:THR:HG22	46:EC:501:GTP:PG	2.42	0.60
44:EC:149:LEU:O	44:EC:153:LEU:HG	2.01	0.60
45:ED:252:LYS:NZ	46:EE:501:GTP:O1G	2.34	0.60
44:EE:271:SER:HA	44:EE:302:MET:HE2	1.82	0.60
45:EF:346:PRO:HD2	44:EG:398:MET:CE	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:198:GLU:OE2	45:EH:254:ALA:HB2	2.02	0.60
45:EH:268:ILE:O	45:EH:300:MET:HE3	2.02	0.60
45:EJ:21:TRP:CZ3	45:EJ:61:PRO:HB3	2.37	0.60
44:EK:18:ASN:O	44:EK:22:GLU:OE1	2.20	0.60
44:FA:323:VAL:HG23	44:FA:327:ASP:HB2	1.84	0.60
45:FB:22:GLU:HA	45:FB:25:SER:OG	2.01	0.60
45:FB:51:TYR:HA	45:FB:60:VAL:O	2.02	0.60
44:FC:122:ILE:HG22	44:FC:161:TYR:OH	2.02	0.60
45:FD:258:ILE:HG13	45:FD:266:PHE:HZ	1.65	0.60
44:FI:318:MET:SD	44:FI:354:GLY:HA3	2.40	0.60
45:FJ:217:LEU:H	45:FJ:217:LEU:HD23	1.67	0.60
45:FL:329:GLN:O	45:FL:333:VAL:HG23	2.02	0.60
44:FM:72:PRO:HG3	44:FM:96:LYS:CA	2.23	0.60
44:FM:171:ILE:HG23	44:FM:205:ASP:HA	1.84	0.60
45:FN:46:ARG:HH21	45:FN:48:ASN:HB2	1.66	0.60
44:GA:270:SER:O	44:GA:302:MET:HB2	2.01	0.60
44:GA:317:MET:HA	44:GA:377:MET:HA	1.83	0.60
45:GB:73:MET:HA	45:GB:76:VAL:CG1	2.30	0.60
45:GB:237:THR:HG23	45:GB:241:ARG:NE	2.17	0.60
44:GC:181:VAL:HG22	45:GD:256:ASN:HB3	1.84	0.60
45:GD:63:ALA:O	45:GD:89:ASN:ND2	2.34	0.60
45:GD:67:ASP:OD1	45:GD:68:LEU:N	2.34	0.60
45:GF:60:VAL:HA	45:GF:86:ARG:NH1	2.17	0.60
45:GF:130:LEU:HD21	45:GF:133:PHE:CE1	2.37	0.60
45:GH:141:GLY:HA3	48:GH:502:GDP:O3A	2.02	0.60
44:GK:23:LEU:HD11	44:GK:361:THR:CG2	2.31	0.60
44:GK:347:CYS:HA	45:GN:388:MET:HE1	1.83	0.60
45:GL:135:ILE:HG13	45:GL:152:ILE:CD1	2.31	0.60
44:GM:11:GLN:HG3	44:GM:74:VAL:HG11	1.81	0.60
44:GM:320:ARG:HG3	44:GM:374:ALA:HB3	1.83	0.60
44:GM:340:THR:HG23	44:GM:341:ILE:HG13	1.82	0.60
44:HC:224:TYR:CE2	45:HD:323:THR:HG21	2.37	0.60
45:HD:86:ARG:HD3	45:ID:281:TYR:CB	2.25	0.60
45:HD:269:GLY:HA2	45:HD:300:MET:HE1	1.84	0.60
45:HF:202:ILE:HD11	45:HF:268:ILE:HG12	1.81	0.60
44:HI:257:THR:HA	45:HL:397:TRP:CE2	2.37	0.60
44:HK:141:VAL:CG1	44:HK:187:SER:HA	2.32	0.60
44:HK:269:LEU:HD23	44:HK:269:LEU:H	1.65	0.60
44:HM:100:ALA:O	45:HN:255:VAL:HG21	2.02	0.60
44:HM:260:VAL:HG13	44:HM:265:ILE:O	2.01	0.60
44:HM:405:VAL:O	44:HM:409:VAL:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:60:LYS:HZ2	44:IA:86:LEU:HA	1.67	0.60
44:IA:98:ASP:OD1	44:IA:100:ALA:N	2.28	0.60
44:IA:210:TYR:CE2	44:IA:227:LEU:HD11	2.36	0.60
44:IA:221:ARG:NH2	45:IB:321:MET:HB2	2.17	0.60
44:IA:250:VAL:HG12	44:IA:255:PHE:CE1	2.36	0.60
44:IC:12:GLY:O	44:IC:16:VAL:HG22	2.02	0.60
44:IE:265:ILE:HG23	44:IE:432:TYR:CE1	2.37	0.60
45:IH:278:SER:O	45:IH:281:TYR:N	2.31	0.60
44:II:17:GLY:HA2	44:II:20:CYS:SG	2.40	0.60
44:II:246:GLY:HA2	44:II:357:TYR:CD2	2.37	0.60
44:II:257:THR:HG21	45:IL:100:ASN:OD1	2.02	0.60
44:II:259:LEU:HD21	44:II:316:SER:HB2	1.82	0.60
45:IJ:24:ILE:CD1	45:IJ:234:SER:HB3	2.31	0.60
45:IJ:86:ARG:CZ	44:JG:283:HIS:HB2	2.32	0.60
45:IL:36:TYR:CZ	45:IL:38:GLY:HA3	2.36	0.60
44:IM:316:SER:O	44:IM:378:ILE:N	2.31	0.60
44:JA:372:MET:HG3	44:JA:373:ARG:HG3	1.84	0.60
44:JA:387:VAL:HG12	44:JA:390:ARG:NH1	2.17	0.60
45:JF:60:VAL:HG23	45:JF:84:LEU:O	2.02	0.60
44:JG:191:THR:HA	44:JG:194:LEU:CG	2.32	0.60
44:JI:186:ASN:OD1	44:JI:187:SER:N	2.35	0.60
45:JJ:186:THR:HG22	45:JJ:381:VAL:HG22	1.84	0.60
44:JK:23:LEU:HD11	44:JK:361:THR:HG23	1.83	0.60
45:JL:86:ARG:HB3	45:JL:89:ASN:CG	2.22	0.60
44:JM:195:LEU:HD21	44:JM:264:ARG:NH2	2.17	0.60
44:JM:318:MET:HA	44:JM:318:MET:HE2	1.83	0.60
44:KA:217:LEU:HD13	44:KA:367:ASP:CB	2.29	0.60
45:KB:100:ASN:OD1	45:KB:102:ALA:N	2.32	0.60
45:KD:392:LYS:HG2	45:KD:395:LEU:HD23	1.84	0.60
45:KF:116:VAL:O	45:KF:119:VAL:HG12	2.01	0.60
45:KH:117:LEU:HA	45:KH:120:VAL:HG12	1.84	0.60
45:KJ:169:VAL:HG12	45:KJ:202:ILE:HG13	1.83	0.60
45:KJ:171:PRO:CG	45:KJ:181:GLU:HG3	2.32	0.60
45:KL:130:LEU:HD12	45:KL:131:GLN:H	1.65	0.60
44:KM:135:PHE:H	44:KM:164:LYS:NZ	2.00	0.60
45:KN:163:ILE:HD13	45:KN:251:ARG:HD3	1.84	0.60
45:KN:285:THR:HG23	45:KN:287:PRO:HD3	1.81	0.60
44:LA:263:PRO:HD3	45:LD:396:HIS:ND1	2.15	0.60
45:LD:77:ARG:NH1	45:LD:82:GLY:O	2.34	0.60
45:LD:380:ARG:HA	45:LD:383:GLU:CG	2.32	0.60
44:LE:45:GLY:CA	44:LE:46:ASP:HA	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:56:THR:H	44:LE:57:GLY:CA	2.15	0.60
44:LG:235:ILE:O	44:LG:239:THR:HG22	2.02	0.60
45:LH:101:TRP:CZ3	45:LH:187:LEU:HB3	2.36	0.60
45:LH:198:GLU:OE2	45:LH:254:ALA:HB2	2.02	0.60
44:LI:319:TYR:CE2	44:LI:328:VAL:HG13	2.37	0.60
45:LJ:68:LEU:HD21	45:LJ:147:MET:SD	2.41	0.60
44:LK:224:TYR:HD1	44:LK:227:LEU:HD12	1.65	0.60
44:LM:127:ASP:OD2	44:MM:293:ASN:ND2	2.35	0.60
45:LN:267:MET:HG2	45:LN:299:MET:SD	2.41	0.60
45:LN:318:ARG:CD	45:LN:358:PRO:HD3	2.31	0.60
44:MA:14:ILE:HD12	44:MA:74:VAL:HB	1.82	0.60
45:MB:207:LEU:HD13	45:MB:225:LEU:CD2	2.29	0.60
45:MD:146:GLY:O	45:MD:149:THR:HG22	2.02	0.60
44:ME:188:ILE:O	44:ME:393:HIS:ND1	2.35	0.60
44:MG:161:TYR:HB3	44:MG:164:LYS:CD	2.32	0.60
44:MG:271:SER:HA	44:MG:302:MET:HE1	1.83	0.60
45:MH:45:GLU:HG2	45:MH:46:ARG:HH21	1.67	0.60
45:MH:68:LEU:HD11	45:MH:147:MET:SD	2.42	0.60
45:MJ:231:ALA:O	45:MJ:234:SER:OG	2.17	0.60
44:MK:166:LYS:C	44:MK:167:LEU:HD12	2.22	0.60
45:MN:109:GLY:HA2	45:MN:147:MET:CE	2.31	0.60
45:MN:221:THR:HG23	45:MN:223:GLY:N	2.16	0.60
44:NA:137:VAL:HG22	44:NA:167:LEU:O	2.02	0.60
44:NA:155:GLU:HG2	44:NA:197:HIS:CD2	2.36	0.60
44:NA:284:GLU:HG2	44:NA:285:GLN:H	1.67	0.60
45:NB:50:TYR:O	45:NB:62:ARG:HG2	2.02	0.60
45:ND:202:ILE:HD11	45:ND:268:ILE:HG12	1.83	0.60
45:ND:272:PRO:O	45:ND:273:LEU:HD22	2.01	0.60
45:ND:320:ARG:HE	45:ND:355:ASP:HB3	1.67	0.60
45:NF:190:HIS:O	45:NF:193:VAL:HG12	2.01	0.60
45:NF:191:GLN:HG3	45:NF:195:ASN:HD22	1.67	0.60
45:NH:318:ARG:NH1	45:NH:358:PRO:HG3	2.16	0.60
44:NK:384:ILE:O	44:NK:387:VAL:HG22	2.01	0.60
44:NM:115:VAL:HG12	44:NM:153:LEU:CD2	2.32	0.60
44:NM:219:ILE:O	44:NM:222:PRO:HD3	2.02	0.60
45:NN:44:LEU:HD23	45:NN:47:ILE:HD11	1.82	0.60
45:OB:20:PHE:HB2	45:OB:233:MET:HE1	1.82	0.60
45:OB:47:ILE:O	45:OB:51:TYR:HB2	2.01	0.60
44:OC:113:GLU:O	44:OC:114:ILE:HD13	2.02	0.60
45:OD:178:THR:N	45:OD:181:GLU:OE2	2.35	0.60
44:OE:175:PRO:HB3	44:OE:390:ARG:NE	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:261:PRO:HA	45:OH:394:PHE:CD1	2.37	0.60
44:OE:326:LYS:HD3	45:OH:220:PRO:HD2	1.82	0.60
44:OG:103:PHE:HE1	44:OG:148:GLY:HA2	1.66	0.60
44:OG:275:ILE:HG23	44:OG:368:LEU:HD13	1.82	0.60
45:OH:133:PHE:HB2	45:OH:164:MET:CE	2.32	0.60
44:OI:17:GLY:O	44:OI:20:CYS:N	2.34	0.60
45:OJ:242:PHE:CD2	45:OJ:356:ILE:HG13	2.36	0.60
44:OK:69:ASP:OD2	44:OK:74:VAL:HG21	2.02	0.60
44:OK:184:PRO:O	44:OK:187:SER:OG	2.14	0.60
45:ON:318:ARG:CB	45:ON:358:PRO:HD3	2.32	0.60
44:PA:89:PRO:HB3	44:QA:280:LYS:HZ3	1.67	0.60
44:PA:115:VAL:O	44:PA:119:LEU:HD23	2.02	0.60
45:PB:51:TYR:CB	45:PB:59:TYR:HB3	2.26	0.60
44:PC:363:VAL:CG2	44:PC:364:PRO:HD2	2.31	0.60
45:PF:206:ALA:O	45:PF:210:ILE:HG13	2.02	0.60
45:PF:289:LEU:HD11	45:PF:363:MET:HB3	1.83	0.60
44:PI:75:ILE:O	44:PI:78:VAL:HG12	2.02	0.60
44:PK:66:VAL:HG11	44:PK:122:ILE:HD13	1.83	0.60
44:PK:89:PRO:HD3	44:QK:280:LYS:HZ1	1.65	0.60
45:PN:19:LYS:HG3	45:PN:226:ASN:HB2	1.84	0.60
44:QA:112:LYS:O	44:QA:115:VAL:HG12	2.01	0.60
44:QA:202:VAL:HA	44:QA:268:MET:O	2.02	0.60
44:QA:203:MET:CE	44:QA:387:VAL:HG21	2.31	0.60
44:QA:240:ALA:HB1	44:QA:356:ASN:ND2	2.15	0.60
44:QE:271:SER:OG	44:QE:301:MET:SD	2.58	0.60
44:QG:105:ARG:HA	44:QG:109:THR:CG2	2.31	0.60
44:QG:289:ALA:O	44:QG:292:THR:HG22	2.02	0.60
44:QG:328:VAL:O	44:QG:332:ILE:HD12	2.01	0.60
45:QH:355:ASP:O	45:QH:356:ILE:HD13	2.02	0.60
44:QI:5:ILE:HB	44:QI:135:PHE:HE1	1.66	0.60
45:QJ:178:THR:N	45:QJ:181:GLU:OE2	2.35	0.60
44:QK:311:LYS:N	44:QK:382:THR:HG1	2.00	0.60
45:QL:44:LEU:CD2	45:QL:47:ILE:HD12	2.32	0.60
45:QL:259:PRO:HG3	44:QM:404:PHE:CZ	2.37	0.60
44:QM:71:GLU:OE1	44:QM:73:THR:HB	2.02	0.60
44:QM:176:GLN:OE1	44:QM:176:GLN:N	2.35	0.60
45:QN:152:ILE:HG22	45:QN:195:ASN:CB	2.32	0.60
45:RB:66:MET:HA	45:RB:66:MET:CE	2.32	0.60
44:RC:393:HIS:CE1	44:RC:397:LEU:HD21	2.36	0.60
45:RD:355:ASP:O	45:RD:356:ILE:HD13	2.00	0.60
44:RE:20:CYS:HA	44:RE:232:ALA:HB1	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:166:LYS:HE3	44:RE:198:THR:HA	1.84	0.60
44:RE:259:LEU:HD13	44:RE:268:MET:HE2	1.83	0.60
45:RF:119:VAL:HA	45:RF:122:LYS:NZ	2.17	0.60
44:RG:213:CYS:CA	44:RG:217:LEU:HD12	2.32	0.60
44:RG:298:PRO:HA	44:RG:301:MET:HG2	1.83	0.60
45:RH:164:MET:HG2	45:RH:197:ASP:OD2	2.01	0.60
44:RI:51:THR:HG21	44:RI:243:ARG:HD3	1.84	0.60
44:RK:78:VAL:HG11	44:RK:92:LEU:HD21	1.83	0.60
44:RK:202:VAL:HA	44:RK:268:MET:O	2.01	0.60
45:RL:46:ARG:HH22	44:RM:72:PRO:HB2	1.65	0.60
45:SB:286:VAL:HA	45:SB:289:LEU:CB	2.29	0.60
44:SG:26:LEU:CD2	44:SG:364:PRO:HD3	2.32	0.60
45:SH:51:TYR:CE1	45:SH:61:PRO:HG3	2.33	0.60
45:SH:213:ARG:HH22	45:SH:297:LYS:HD2	1.67	0.60
45:SJ:4:ILE:HB	45:SJ:132:GLY:O	2.02	0.60
45:SJ:7:ILE:HB	45:SJ:135:ILE:HD13	1.83	0.60
44:SK:55:GLU:CD	44:SK:57:GLY:H	2.05	0.60
44:SK:288:VAL:HA	44:SK:291:ILE:CG1	2.28	0.60
44:SM:75:ILE:HG22	44:SM:76:ASP:O	2.01	0.60
44:SM:122:ILE:HD13	44:SM:125:LEU:HD12	1.83	0.60
45:SN:47:ILE:HG21	45:SN:59:TYR:HE2	1.67	0.60
44:TA:154:LEU:O	44:TA:158:SER:N	2.28	0.60
44:TA:231:ILE:O	44:TA:235:ILE:HD12	2.01	0.60
44:TA:288:VAL:O	44:TA:289:ALA:HB3	2.02	0.60
45:TD:202:ILE:HD11	45:TD:268:ILE:CD1	2.32	0.60
44:TE:311:LYS:HA	44:TE:342:GLN:HE22	1.66	0.60
45:TH:293:MET:CG	45:TH:367:PHE:HB2	2.32	0.60
45:TJ:175:VAL:O	45:TJ:175:VAL:HG23	2.02	0.60
44:TK:384:ILE:O	44:TK:387:VAL:HG22	2.02	0.60
45:TL:331:LEU:HG	45:TL:334:GLN:NE2	2.16	0.60
45:TL:374:ILE:HD11	45:TL:422:TYR:CZ	2.37	0.60
44:TM:56:THR:O	44:UM:285:GLN:HA	2.02	0.60
45:TN:112:LEU:O	45:TN:112:LEU:HD23	2.01	0.60
44:UA:31:GLN:NE2	44:UA:33:ASP:HB2	2.16	0.60
44:UA:72:PRO:HA	44:UA:94:SER:OG	2.02	0.60
44:UA:275:ILE:HG23	44:UA:368:LEU:HD11	1.84	0.60
44:UC:136:LEU:CD2	44:UC:167:LEU:HB2	2.30	0.60
44:UC:141:VAL:HG11	44:UC:173:PRO:HD3	1.84	0.60
44:UC:360:PRO:HG3	44:UC:374:ALA:HB2	1.84	0.60
45:UD:324:LYS:HD2	44:UE:210:TYR:CD1	2.37	0.60
44:UE:133:GLN:HB3	44:UE:252:ILE:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:383:ALA:O	44:UE:386:GLU:HG2	2.01	0.60
44:UG:89:PRO:CG	44:VE:280:LYS:HD2	2.32	0.60
44:UG:194:LEU:HD21	44:UG:198:THR:HB	1.83	0.60
44:UI:407:TRP:O	44:UI:410:GLY:N	2.35	0.60
45:UJ:406:MET:O	45:UJ:410:GLU:N	2.31	0.60
45:UL:309:ARG:NH2	45:UL:341:PHE:O	2.35	0.60
44:UM:101:ASN:OD1	44:UM:144:GLY:N	2.35	0.60
44:UM:118:CYS:O	44:UM:122:ILE:N	2.35	0.60
44:UM:276:ILE:HD13	44:UM:281:ALA:HA	1.84	0.60
45:UN:24:ILE:HG23	45:UN:28:HIS:CE1	2.37	0.60
45:UN:221:THR:HG22	45:UN:224:ASP:OD2	2.02	0.60
44:VA:319:TYR:CD2	44:VA:375:VAL:HB	2.36	0.60
45:VB:106:TYR:OH	45:VB:407:GLU:OE1	2.17	0.60
45:VB:262:ARG:NH1	45:VB:421:GLU:OE1	2.35	0.60
44:VC:105:ARG:O	44:VC:110:ILE:HG12	2.02	0.60
44:VC:180:ALA:HB1	45:VD:256:ASN:HD21	1.66	0.60
44:VC:203:MET:HG3	44:VC:384:ILE:HD11	1.82	0.60
45:VD:4:ILE:CG2	45:VD:131:GLN:HB3	2.32	0.60
45:VD:17:GLY:O	45:VD:20:PHE:N	2.35	0.60
45:VD:167:PHE:CD1	45:VD:200:MET:HB3	2.36	0.60
45:VF:21:TRP:CZ2	45:VF:63:ALA:HB2	2.37	0.60
44:VG:212:ILE:HD11	44:VG:300:ASN:HA	1.84	0.60
44:VG:391:LEU:HA	44:VG:394:LYS:HB3	1.83	0.60
45:VH:184:ASN:OD1	45:VH:185:ALA:N	2.35	0.60
45:VH:217:LEU:HD12	45:VH:217:LEU:O	2.01	0.60
45:VH:334:GLN:HA	45:VH:341:PHE:CE2	2.37	0.60
44:VI:15:GLN:O	44:VI:19:ALA:N	2.28	0.60
44:VI:224:TYR:HE1	45:VJ:323:THR:HG21	1.66	0.60
44:VI:229:ARG:NH1	44:VI:363:VAL:HG11	2.17	0.60
45:VJ:22:GLU:HG2	45:VJ:81:PHE:CB	2.31	0.60
44:WA:112:LYS:HA	44:WA:115:VAL:HG12	1.83	0.60
45:WB:170:VAL:HG22	45:WB:201:VAL:CG2	2.32	0.60
44:WC:105:ARG:HD2	45:WD:251:ARG:NH2	2.14	0.60
44:WC:238:LEU:HD11	44:WC:255:PHE:HZ	1.63	0.60
44:WC:352:LYS:HD2	45:WF:177:ASP:O	2.02	0.60
45:WD:67:ASP:OD2	45:WD:72:THR:OG1	2.20	0.60
44:WE:11:GLN:HE22	45:WF:247:ASN:N	1.99	0.60
45:WF:355:ASP:O	45:WF:356:ILE:HD13	2.02	0.60
44:WG:255:PHE:HA	44:WG:258:ASN:OD1	2.01	0.60
45:WH:342:VAL:CG1	45:WH:345:ILE:HG22	2.32	0.60
44:WI:66:VAL:HG11	44:WI:122:ILE:CD1	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:13:GLY:O	44:WK:16:VAL:HG12	2.02	0.60
44:WM:310:GLY:HA3	44:WM:383:ALA:N	2.17	0.60
45:WN:415:MET:O	45:WN:419:VAL:HG23	2.02	0.60
8:0G:24:GLU:CD	45:JL:216:LYS:HD2	2.22	0.60
14:0U:430:ARG:HH12	44:WA:365:GLY:H	1.50	0.60
2:1A:33:GLN:HE21	45:MF:357:PRO:HG2	1.67	0.60
25:1P:341:LEU:HG	44:TC:26:LEU:HD11	1.83	0.60
27:1W:66:GLU:HA	45:LH:217:LEU:HB2	1.84	0.60
10:2N:159:PRO:HD3	45:KB:227:HIS:CG	2.37	0.60
26:2R:99:VAL:HG21	44:AG:42:ILE:HA	1.84	0.60
22:3L:42:LYS:CD	45:BB:320:ARG:HH12	2.15	0.60
34:4F:228:SER:HB2	44:HM:82:THR:HA	1.83	0.60
37:5B:109:ASN:HD21	44:KE:390:ARG:HA	1.67	0.60
38:5F:61:LYS:O	45:OF:280:GLN:NE2	2.35	0.60
38:5H:22:LYS:HD2	38:5H:30:PRO:HG2	1.83	0.60
39:5J:18:GLU:HB3	39:5J:22:TRP:CH2	2.37	0.60
39:5J:74:ASP:O	39:5J:77:LYS:HG3	2.02	0.60
35:5R:16:CYS:O	35:5R:18:PRO:HD2	2.02	0.60
35:5R:127:ILE:HD11	35:5R:150:ILE:CD1	2.32	0.60
35:5R:507:ARG:NH1	35:5R:509:ASP:HA	2.17	0.60
36:5S:91:LEU:HD11	36:5S:96:LEU:HG	1.82	0.60
40:6F:21:VAL:CG1	40:6F:23:ILE:HG12	2.32	0.60
41:6G:115:ILE:O	41:6G:115:ILE:HG23	2.01	0.60
42:8L:69:UNK:O	42:8L:73:UNK:N	2.35	0.60
42:8N:347:UNK:HA	42:8N:351:UNK:HA	1.82	0.60
44:AA:71:GLU:CD	44:AA:73:THR:HG22	2.22	0.60
44:AA:108:TYR:CE2	44:AA:413:MET:HB3	2.37	0.60
45:AD:7:ILE:CG2	45:AD:135:ILE:HD13	2.27	0.60
45:AD:268:ILE:HG22	45:AD:368:VAL:HG22	1.83	0.60
45:AF:100:ASN:ND2	45:AF:401:GLU:OE1	2.35	0.60
45:AF:191:GLN:HG3	45:AF:195:ASN:ND2	2.17	0.60
44:AG:51:THR:HG22	44:AG:52:PHE:CD1	2.36	0.60
45:AJ:215:LEU:HD13	45:AJ:217:LEU:CD2	2.31	0.60
45:AJ:239:CYS:HB3	45:AJ:354:CYS:HB2	1.84	0.60
44:AK:121:ARG:HH11	44:AK:124:LYS:HD2	1.67	0.60
45:AL:54:ALA:HB1	45:BL:282:ARG:O	2.01	0.60
45:AN:317:PHE:HB3	45:AN:321:MET:CE	2.31	0.60
44:BA:335:ILE:HG21	44:BA:351:PHE:HZ	1.66	0.60
45:BD:221:THR:H	45:BD:224:ASP:HB2	1.66	0.60
44:BE:56:THR:OG1	44:CE:282:TYR:O	2.20	0.60
45:BH:114:ASP:OD1	45:BH:115:SER:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:265:ILE:O	44:BK:265:ILE:HG23	2.02	0.60
45:BL:67:ASP:OD1	45:BL:68:LEU:N	2.34	0.60
44:BM:88:HIS:HB3	44:BM:91:GLN:HB2	1.84	0.60
44:BM:90:GLU:HB3	44:CM:280:LYS:HE2	1.84	0.60
45:CB:100:ASN:ND2	45:CB:401:GLU:OE1	2.35	0.60
44:CC:98:ASP:OD1	44:CC:99:ALA:N	2.33	0.60
45:CD:87:PRO:HD2	45:DD:281:TYR:CD2	2.37	0.60
45:CD:304:ASP:OD1	45:CD:306:ARG:HG2	2.02	0.60
44:CE:10:GLY:HA2	44:CE:145:THR:HG23	1.83	0.60
44:CE:324:VAL:CG1	44:CE:325:PRO:HD2	2.31	0.60
45:CF:299:MET:CG	45:CF:305:PRO:HG3	2.23	0.60
44:CG:141:VAL:CG2	44:CG:187:SER:HA	2.32	0.60
45:CH:16:ILE:HG21	45:CH:229:VAL:HG11	1.82	0.60
45:CH:251:ARG:HH12	44:CI:105:ARG:CD	2.14	0.60
44:DA:141:VAL:HG12	44:DA:172:TYR:HA	1.83	0.60
44:DA:275:ILE:HA	44:DA:368:LEU:CD1	2.23	0.60
45:DD:117:LEU:HD21	45:DD:121:ARG:NH2	2.16	0.60
44:DE:372:MET:HG3	44:DE:373:ARG:HG3	1.83	0.60
45:DF:101:TRP:CE3	45:DF:187:LEU:HD13	2.36	0.60
45:DH:136:THR:HG21	45:DH:233:MET:HE1	1.82	0.60
45:DJ:345:ILE:CG2	45:DJ:348:ASN:HD21	2.15	0.60
44:DK:9:VAL:HG21	44:DK:153:LEU:HD12	1.84	0.60
44:DK:55:GLU:OE1	44:DK:57:GLY:N	2.35	0.60
44:DK:102:ASN:CG	44:DK:105:ARG:HG3	2.22	0.60
45:DL:61:PRO:HD2	45:DL:84:LEU:O	2.02	0.60
45:DL:193:VAL:HG21	45:DL:418:LEU:HD22	1.84	0.60
45:DL:257:LEU:HB3	45:DL:266:PHE:CZ	2.37	0.60
45:DN:378:PHE:HB3	45:DN:419:VAL:CG2	2.31	0.60
45:EB:4:ILE:HD11	45:EB:50:TYR:OH	2.02	0.60
45:EB:46:ARG:NH2	44:EC:73:THR:HG23	2.17	0.60
45:EB:62:ARG:HG2	45:EB:62:ARG:O	2.02	0.60
45:EB:116:VAL:O	45:EB:119:VAL:HG12	2.02	0.60
45:EB:337:ASN:HB3	45:EB:340:TYR:CD2	2.37	0.60
44:EC:317:MET:O	44:EC:353:VAL:HA	2.01	0.60
44:EE:37:PRO:CG	44:EE:40:LYS:H	2.10	0.60
45:EF:81:PHE:CB	45:EF:84:LEU:HD13	2.30	0.60
45:EF:202:ILE:HD11	45:EF:268:ILE:HG12	1.82	0.60
44:EG:184:PRO:O	44:EG:188:ILE:HD12	2.02	0.60
45:EJ:305:PRO:HB2	45:EJ:310:TYR:OH	2.02	0.60
45:EJ:316:LEU:HA	45:EJ:352:SER:OG	2.00	0.60
44:EM:193:SER:O	44:EM:197:HIS:ND1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:86:ARG:HH22	45:FN:278:SER:HA	1.67	0.60
44:FA:64:ARG:HH12	44:FA:128:ASN:CB	2.15	0.60
45:FB:5:VAL:HG12	45:FB:62:ARG:HD3	1.83	0.60
45:FD:310:TYR:CD1	45:FD:371:SER:HB2	2.37	0.60
45:FF:202:ILE:CD1	45:FF:300:MET:HB3	2.32	0.60
44:FG:145:THR:HG22	46:FG:501:GTP:PG	2.42	0.60
44:FG:259:LEU:HD11	44:FG:316:SER:CB	2.32	0.60
44:FI:292:THR:OG1	44:FI:331:SER:HB2	2.01	0.60
45:FN:8:GLN:OE1	45:FN:17:GLY:HA3	2.00	0.60
45:FN:374:ILE:HG13	45:FN:378:PHE:CE2	2.37	0.60
44:GA:145:THR:HG22	46:GB:501:GTP:PG	2.42	0.60
44:GA:156:ARG:O	44:GA:159:VAL:HG12	2.01	0.60
44:GA:311:LYS:HZ1	44:GA:344:VAL:N	2.00	0.60
44:GA:435:VAL:HA	45:GD:391:ARG:NH2	2.17	0.60
45:GD:330:MET:CG	45:GD:349:ILE:HG21	2.32	0.60
45:GF:68:LEU:HD12	45:GF:143:THR:OG1	2.01	0.60
45:GH:189:VAL:HG21	45:GH:378:PHE:CZ	2.36	0.60
45:GH:296:ALA:HA	45:GH:299:MET:CE	2.32	0.60
44:GI:216:ASN:CB	44:GI:275:ILE:HG22	2.32	0.60
44:GI:287:SER:O	44:GI:290:GLU:HG2	2.02	0.60
44:GK:276:ILE:HG23	44:GK:281:ALA:CB	2.32	0.60
45:GN:320:ARG:NH2	45:GN:356:ILE:HD11	2.17	0.60
44:HE:210:TYR:CE1	44:HE:227:LEU:HD11	2.37	0.60
44:HG:268:MET:HB3	44:HG:380:ASN:OD1	2.02	0.60
44:HI:319:TYR:CD1	44:HI:323:VAL:HG21	2.36	0.60
45:HJ:101:TRP:CE3	45:HJ:187:LEU:HD13	2.37	0.60
44:IA:208:ALA:HB2	44:IA:304:LYS:N	2.16	0.60
45:IB:105:HIS:CE1	45:IB:150:LEU:HD12	2.37	0.60
44:IC:73:THR:HG22	45:ID:46:ARG:HE	1.66	0.60
44:IE:101:ASN:HD22	45:IF:252:LYS:HG3	1.65	0.60
44:IE:188:ILE:HD12	44:IE:425:LEU:HG	1.84	0.60
44:IE:224:TYR:HE2	45:IF:246:LEU:HD11	1.67	0.60
44:IE:311:LYS:CD	44:IE:342:GLN:HG3	2.28	0.60
45:IH:67:ASP:OD2	45:IH:72:THR:OG1	2.20	0.60
45:IJ:36:TYR:CE1	45:IJ:44:LEU:HG	2.37	0.60
45:IN:293:MET:O	45:IN:298:ASN:ND2	2.35	0.60
45:JB:313:ALA:HB1	45:JB:367:PHE:CZ	2.37	0.60
44:JC:179:THR:HG23	45:JD:351:SER:OG	2.02	0.60
44:JC:194:LEU:O	44:JC:198:THR:HG22	2.01	0.60
44:JG:88:HIS:HB3	44:JG:91:GLN:CG	2.32	0.60
44:JG:387:VAL:HG23	44:JG:388:PHE:HD1	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:103:LYS:HA	45:JH:401:GLU:OE2	2.02	0.60
44:JI:73:THR:CG2	45:JJ:46:ARG:HH21	2.14	0.60
45:KD:3:GLU:HG3	45:KD:62:ARG:NH1	2.16	0.60
45:KF:135:ILE:O	45:KF:166:THR:HA	2.02	0.60
44:KG:141:VAL:HG21	44:KG:172:TYR:HE1	1.67	0.60
45:KH:44:LEU:O	45:KH:44:LEU:HD23	2.02	0.60
44:KI:406:HIS:HA	44:KI:409:VAL:HG12	1.84	0.60
45:KJ:4:ILE:HD11	45:KJ:50:TYR:OH	2.02	0.60
45:KJ:350:LYS:HG2	45:KJ:351:SER:N	2.17	0.60
44:KK:123:ARG:HH21	44:LK:338:LYS:CE	2.15	0.60
44:KK:298:PRO:HB3	44:KK:307:PRO:HD2	1.84	0.60
45:KL:4:ILE:HD11	45:KL:50:TYR:HE1	1.67	0.60
44:KM:68:LEU:HD21	44:KM:118:CYS:HB2	1.82	0.60
44:KM:268:MET:CG	44:KM:380:ASN:HA	2.32	0.60
45:KN:139:LEU:HB3	45:KN:185:ALA:HA	1.83	0.60
44:LE:141:VAL:HG12	44:LE:171:ILE:O	2.00	0.60
44:LE:276:ILE:CD1	44:LE:281:ALA:HA	2.32	0.60
44:LG:49:PHE:HB2	44:LG:53:PHE:HB2	1.84	0.60
45:LH:151:LEU:O	45:LH:155:VAL:HG13	2.02	0.60
44:LI:71:GLU:OE1	44:LI:73:THR:OG1	2.20	0.60
44:LI:258:ASN:HD22	44:LI:352:LYS:HG3	1.66	0.60
44:LM:202:VAL:O	44:LM:203:MET:HE2	2.01	0.60
45:MB:399:THR:HA	45:MB:403:MET:O	2.02	0.60
44:MC:271:SER:HB2	44:MC:377:MET:CG	2.31	0.60
44:MC:425:LEU:O	44:MC:429:GLU:HG3	2.01	0.60
45:MD:207:LEU:CD2	45:MD:225:LEU:HD22	2.28	0.60
44:MG:408:TYR:HB3	44:MG:413:MET:HE1	1.83	0.60
45:MH:344:TRP:CZ3	45:MH:345:ILE:HB	2.37	0.60
45:MJ:130:LEU:HD11	45:MJ:133:PHE:CE1	2.35	0.60
45:MJ:175:VAL:O	45:MJ:175:VAL:HG23	2.02	0.60
45:ML:91:VAL:HG21	45:ML:116:VAL:CG2	2.32	0.60
44:MM:169:PHE:HB3	44:MM:204:LEU:CD1	2.31	0.60
44:MM:385:ALA:O	44:MM:389:SER:N	2.32	0.60
45:MN:360:GLY:C	45:MN:361:LEU:HD22	2.23	0.60
45:NB:51:TYR:CE2	45:NB:61:PRO:HG3	2.37	0.60
44:NC:222:PRO:HD2	45:ND:324:LYS:NZ	2.16	0.60
45:ND:54:ALA:HB3	45:ND:58:ARG:O	2.01	0.60
45:ND:232:ALA:HB1	45:ND:268:ILE:HD12	1.84	0.60
45:ND:268:ILE:O	45:ND:300:MET:HE3	2.02	0.60
45:ND:285:THR:OG1	45:ND:287:PRO:HD2	2.01	0.60
45:NF:236:VAL:HG22	45:NF:250:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:3:GLU:OE2	45:NH:127:CYS:HB2	2.02	0.60
44:NM:204:LEU:HD22	44:NM:302:MET:CE	2.32	0.60
45:OB:3:GLU:HG3	45:OB:62:ARG:NH1	2.16	0.60
44:OC:173:PRO:CG	44:OC:391:LEU:HD21	2.32	0.60
44:OE:298:PRO:HB3	44:OE:307:PRO:HG2	1.84	0.60
45:OH:86:ARG:HD2	45:PH:281:TYR:HB3	1.84	0.60
44:OK:53:PHE:HE2	44:OK:63:PRO:HG3	1.66	0.60
45:OL:116:VAL:O	45:OL:119:VAL:HG12	2.01	0.60
45:ON:103:LYS:HA	45:ON:401:GLU:OE1	2.02	0.60
44:PA:255:PHE:O	44:PA:259:LEU:HB2	2.01	0.60
45:PD:323:THR:O	45:PD:326:VAL:N	2.35	0.60
44:PE:34:GLY:O	44:PE:60:LYS:HA	2.02	0.60
44:PE:221:ARG:N	44:PE:222:PRO:HD3	2.17	0.60
45:PF:296:ALA:O	45:PF:299:MET:HE2	2.02	0.60
44:PG:51:THR:HG22	44:PG:52:PHE:CD2	2.37	0.60
45:PJ:97:ALA:C	45:PJ:103:LYS:HD2	2.22	0.60
45:PJ:200:MET:HE3	45:PJ:266:PHE:HD2	1.66	0.60
44:PK:1:MET:C	44:PK:2:ARG:HD3	2.21	0.60
45:PL:8:GLN:HE22	45:PL:17:GLY:HA3	1.66	0.60
45:QB:209:ASP:OD1	45:QB:210:ILE:HG13	2.02	0.60
45:QB:238:CYS:HB2	45:QB:318:ARG:NE	2.17	0.60
44:QC:119:LEU:HA	44:QC:122:ILE:HG12	1.84	0.60
45:QD:130:LEU:HB3	45:QD:162:ARG:HD2	1.82	0.60
45:QD:192:LEU:O	45:QD:196:ALA:N	2.35	0.60
44:QE:258:ASN:HD22	44:QE:352:LYS:HB2	1.66	0.60
45:QF:167:PHE:CZ	45:QF:233:MET:HG2	2.36	0.60
45:QF:267:MET:HG2	45:QF:369:GLY:O	2.01	0.60
45:QH:302:ALA:HB3	45:QH:377:MET:CE	2.31	0.60
45:QJ:25:SER:HB2	45:QJ:81:PHE:HE2	1.65	0.60
44:QK:231:ILE:O	44:QK:234:VAL:HB	2.02	0.60
45:QL:65:LEU:HD11	45:QL:85:PHE:CD2	2.37	0.60
45:QL:310:TYR:HB2	45:QL:341:PHE:CE1	2.37	0.60
45:QL:315:ALA:HB3	45:QL:351:SER:OG	2.02	0.60
45:QL:375:GLN:OE1	45:QL:419:VAL:HG12	2.01	0.60
44:QM:191:THR:HA	44:QM:194:LEU:CG	2.31	0.60
45:QN:67:ASP:OD1	45:QN:69:GLU:HG3	2.01	0.60
44:RA:141:VAL:HG12	44:RA:171:ILE:O	2.02	0.60
44:RC:313:MET:HE3	44:RC:380:ASN:O	2.02	0.60
45:RH:143:THR:O	45:RH:147:MET:N	2.34	0.60
45:RH:255:VAL:HG11	44:RI:101:ASN:HB3	1.83	0.60
44:RK:386:GLU:O	44:RK:390:ARG:N	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:49:VAL:HG12	45:RL:50:TYR:CD1	2.36	0.60
44:RM:98:ASP:OD1	44:RM:99:ALA:N	2.34	0.60
44:SA:188:ILE:CG2	44:SA:421:ALA:HB1	2.30	0.60
45:SB:308:GLY:N	45:SB:377:MET:HB3	2.17	0.60
44:SC:219:ILE:HB	44:SC:220:GLU:OE2	2.02	0.60
45:SD:322:SER:HB2	44:SE:222:PRO:O	2.02	0.60
44:SE:3:GLU:OE2	44:SE:130:THR:HG22	2.02	0.60
45:SH:238:CYS:HB2	45:SH:318:ARG:CZ	2.32	0.60
45:SH:383:GLU:O	45:SH:386:THR:HG22	2.02	0.60
44:SI:346:TRP:O	45:SJ:388:MET:HG2	2.02	0.60
44:SK:2:ARG:HD2	44:SK:242:LEU:O	2.02	0.60
44:SK:19:ALA:HA	44:SK:22:GLU:OE1	2.01	0.60
45:SN:130:LEU:HB3	45:SN:162:ARG:HD2	1.83	0.60
44:TA:194:LEU:HB2	44:TA:198:THR:HG21	1.83	0.60
44:TA:209:ILE:HG21	44:TA:227:LEU:CD1	2.32	0.60
44:TG:186:ASN:O	44:TG:190:SER:OG	2.13	0.60
44:TI:191:THR:HG21	44:TI:388:PHE:CZ	2.36	0.60
44:TI:216:ASN:HB3	44:TI:275:ILE:O	2.01	0.60
45:TJ:105:HIS:CD2	45:TJ:150:LEU:HD12	2.37	0.60
45:TJ:334:GLN:NE2	45:TJ:348:ASN:H	1.99	0.60
45:TL:70:PRO:HG3	45:TL:92:PHE:CD2	2.37	0.60
45:TL:245:GLN:HG2	45:TL:353:ILE:CG2	2.27	0.60
44:TM:353:VAL:HG12	45:TN:177:ASP:HA	1.84	0.60
45:UB:245:GLN:CB	45:UB:353:ILE:HD11	2.27	0.60
45:UB:265:PHE:HE2	45:UB:418:LEU:HD21	1.67	0.60
45:UB:317:PHE:CA	45:UB:365:VAL:HG22	2.20	0.60
44:UC:221:ARG:HG3	44:UC:221:ARG:O	2.02	0.60
45:UD:285:THR:HB	45:UD:287:PRO:HD2	1.82	0.60
44:UE:114:ILE:CG2	44:UE:117:LEU:HD11	2.32	0.60
44:UE:287:SER:CB	44:UE:290:GLU:HG2	2.31	0.60
44:UE:317:MET:SD	44:UE:353:VAL:HA	2.41	0.60
45:UH:114:ASP:HA	45:UH:117:LEU:HB3	1.83	0.60
45:UJ:253:LEU:HD21	45:UJ:316:LEU:HD21	1.84	0.60
45:UN:51:TYR:CE1	45:UN:61:PRO:HG3	2.37	0.60
44:VA:7:ILE:O	44:VA:137:VAL:HA	2.01	0.60
44:VA:91:GLN:O	44:VA:93:ILE:HD12	2.01	0.60
44:VC:98:ASP:OD1	44:VC:99:ALA:N	2.34	0.60
44:VC:107:HIS:O	44:VC:107:HIS:ND1	2.35	0.60
45:VD:178:THR:O	45:VD:181:GLU:HG3	2.01	0.60
44:VE:101:ASN:OD1	45:VF:252:LYS:HE2	2.02	0.60
44:VE:104:ALA:HB1	44:VE:411:GLU:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:199:ASP:O	44:VE:266:HIS:HB2	2.01	0.60
45:VF:60:VAL:HB	45:VF:86:ARG:CZ	2.32	0.60
44:VG:363:VAL:CG2	44:VG:364:PRO:HD2	2.32	0.60
44:VI:118:CYS:O	44:VI:122:ILE:HG12	2.01	0.60
44:VI:121:ARG:NH1	44:VI:124:LYS:HD2	2.17	0.60
44:VK:63:PRO:CG	44:VK:87:PHE:HA	2.32	0.60
44:VK:209:ILE:HG22	44:VK:227:LEU:HD22	1.84	0.60
45:VL:201:VAL:HG23	45:VL:301:CYS:SG	2.42	0.60
45:VL:260:PHE:HB3	45:VL:261:PRO:HD2	1.84	0.60
45:WB:75:SER:O	45:WB:78:ALA:N	2.34	0.60
45:WD:398:TYR:C	45:WD:403:MET:HB2	2.22	0.60
44:WE:237:SER:OG	44:WE:320:ARG:NH1	2.21	0.60
44:WE:270:SER:CB	44:WE:378:ILE:HD13	2.31	0.60
44:WG:90:GLU:O	44:WG:121:ARG:NE	2.25	0.60
44:WG:230:LEU:O	44:WG:234:VAL:HG23	2.01	0.60
45:WH:7:ILE:HG12	45:WH:64:ILE:HB	1.83	0.60
45:WH:97:ALA:CB	45:WH:143:THR:HB	2.31	0.60
44:WK:70:LEU:HD11	44:WK:149:LEU:HD21	1.83	0.60
45:WL:222:TYR:O	45:WL:226:ASN:ND2	2.32	0.60
44:WM:224:TYR:CE2	45:WN:246:LEU:HD11	2.37	0.60
45:WN:387:ALA:O	45:WN:390:ARG:HG2	2.01	0.60
1:6H:295:GLN:CD	45:FH:362:LYS:CA	2.58	0.59
16:0X:78:ASN:ND2	45:MB:280:GLN:HE21	2.00	0.59
18:1F:120:ASN:HB3	44:GI:77:GLU:HG3	1.83	0.59
6:2E:75:ASN:OD1	35:5R:374:LYS:NZ	2.35	0.59
26:2R:3:SER:HB3	35:5R:55:ASP:O	2.00	0.59
26:2R:233:LYS:HE3	45:BJ:74:ASP:OD2	2.02	0.59
28:3C:68:ASN:HB3	44:LA:84:ARG:NH2	2.16	0.59
32:3I:215:ILE:HG23	44:GK:214:ARG:NH2	2.16	0.59
35:4R:176:ARG:NH1	45:AH:83:GLN:OE1	2.34	0.59
37:5D:39:ARG:NE	44:KK:266:HIS:HB2	2.17	0.59
38:5F:197:LEU:HD12	44:LG:393:HIS:CG	2.36	0.59
35:5R:93:LEU:HD11	35:5R:190:PHE:CD2	2.37	0.59
41:6G:277:LEU:O	41:6G:279:TYR:N	2.31	0.59
11:6Q:50:MET:HE1	11:6Q:159:ASN:CA	2.31	0.59
35:6R:207:ASP:OD1	35:6R:207:ASP:N	2.34	0.59
42:8N:127:UNK:O	42:8N:131:UNK:N	2.35	0.59
44:AC:35:GLN:HG2	44:AC:60:LYS:HB3	1.84	0.59
44:AC:135:PHE:HB2	44:AC:166:LYS:HG2	1.83	0.59
44:AC:280:LYS:HB3	44:MC:89:PRO:HG2	1.84	0.59
44:AI:76:ASP:OD2	45:AJ:46:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:384:ILE:O	44:AI:387:VAL:HG22	2.02	0.59
45:AJ:130:LEU:HD11	45:AJ:133:PHE:CE1	2.36	0.59
44:AM:88:HIS:CE1	44:AM:90:GLU:HG2	2.37	0.59
44:AM:101:ASN:ND2	45:AN:252:LYS:HG3	2.17	0.59
45:AN:215:LEU:HD21	45:AN:273:LEU:HD22	1.84	0.59
44:BA:221:ARG:NH1	45:BB:325:GLU:HB2	2.15	0.59
44:BA:252:ILE:HA	44:BA:255:PHE:CZ	2.37	0.59
45:BF:16:ILE:HD11	48:BF:502:GDP:HN21	1.67	0.59
45:BF:112:LEU:O	45:BF:112:LEU:HD23	2.02	0.59
44:BI:169:PHE:HA	44:BI:202:VAL:HG22	1.83	0.59
44:BI:208:ALA:CB	44:BI:304:LYS:HE3	2.32	0.59
44:BM:36:MET:CG	44:BM:37:PRO:HD2	2.32	0.59
44:BM:311:LYS:HZ3	44:BM:342:GLN:HB2	1.67	0.59
45:BN:186:THR:HG21	45:BN:385:PHE:CE1	2.37	0.59
45:BN:187:LEU:HD21	45:BN:408:PHE:CE1	2.37	0.59
45:CB:6:HIS:NE2	45:CB:8:GLN:HB3	2.16	0.59
44:CE:233:GLN:NE2	44:CE:272:TYR:OH	2.34	0.59
45:CF:68:LEU:HD21	45:CF:147:MET:CE	2.32	0.59
45:CJ:170:VAL:HG21	45:CJ:377:MET:SD	2.41	0.59
44:CK:316:SER:OG	44:CK:352:LYS:HB3	2.01	0.59
45:CL:48:ASN:HA	45:CL:51:TYR:O	2.02	0.59
45:CL:263:LEU:HG	45:CL:422:TYR:CD1	2.36	0.59
44:CM:252:ILE:HG23	44:CM:255:PHE:CE2	2.37	0.59
45:CN:43:GLN:O	45:CN:47:ILE:HD11	2.02	0.59
44:DA:37:PRO:O	44:DA:38:SER:HB3	2.02	0.59
44:DC:240:ALA:HA	44:DC:243:ARG:NE	2.17	0.59
44:DC:268:MET:CB	44:DC:380:ASN:HA	2.32	0.59
45:DD:103:LYS:HG3	45:DD:108:GLU:OE1	2.01	0.59
44:DG:70:LEU:HG	44:DG:145:THR:OG1	2.02	0.59
44:DG:258:ASN:ND2	44:DG:352:LYS:HD3	2.17	0.59
45:DH:73:MET:O	45:DH:76:VAL:HG12	2.02	0.59
44:DK:37:PRO:HD2	44:DK:38:SER:N	2.16	0.59
44:DK:156:ARG:O	44:DK:159:VAL:HG12	2.02	0.59
45:DL:288:GLU:O	45:DL:291:GLN:HG3	2.02	0.59
45:EB:238:CYS:HB2	45:EB:318:ARG:CZ	2.32	0.59
45:EB:296:ALA:HB1	45:EB:306:ARG:HE	1.66	0.59
44:EE:30:ILE:HG12	44:EE:36:MET:CE	2.32	0.59
44:EG:288:VAL:HA	44:EG:291:ILE:CD1	2.32	0.59
44:EG:295:ALA:HB1	44:EG:377:MET:SD	2.42	0.59
45:EH:206:ALA:HB3	45:EH:300:MET:O	2.02	0.59
44:EI:288:VAL:HG11	44:EI:327:ASP:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:317:MET:N	44:EI:352:LYS:O	2.24	0.59
45:EJ:3:GLU:OE2	45:EJ:127:CYS:HB2	2.02	0.59
45:EJ:178:THR:HG22	45:EJ:180:VAL:H	1.67	0.59
45:EJ:392:LYS:HG3	45:EJ:395:LEU:HD22	1.84	0.59
44:EK:311:LYS:H	44:EK:382:THR:HG1	1.48	0.59
45:EN:141:GLY:O	45:EN:184:ASN:ND2	2.35	0.59
45:FB:268:ILE:HG22	45:FB:368:VAL:HG22	1.84	0.59
45:FD:363:MET:HA	45:FD:363:MET:CE	2.32	0.59
44:FE:223:THR:HG23	44:FE:225:THR:H	1.66	0.59
45:FF:257:LEU:HA	45:FF:312:THR:CG2	2.32	0.59
44:FG:17:GLY:HA2	44:FG:20:CYS:SG	2.42	0.59
45:FH:42:LEU:O	45:FH:45:GLU:HG3	2.02	0.59
44:FK:209:ILE:HG12	44:FK:302:MET:HE3	1.84	0.59
45:FL:135:ILE:HG13	45:FL:152:ILE:HD11	1.84	0.59
45:FL:247:ASN:O	45:FL:247:ASN:ND2	2.32	0.59
45:FN:55:THR:CG2	45:GN:283:ALA:HA	2.32	0.59
45:GB:103:LYS:HG3	45:GB:107:THR:OG1	2.02	0.59
44:GC:384:ILE:O	44:GC:387:VAL:HG12	2.01	0.59
45:GD:19:LYS:HG3	45:GD:230:SER:OG	2.01	0.59
44:GK:69:ASP:OD1	44:GK:70:LEU:N	2.34	0.59
44:GK:324:VAL:HG12	44:GK:326:LYS:HG2	1.82	0.59
45:GL:184:ASN:OD1	45:GL:185:ALA:N	2.34	0.59
44:HA:319:TYR:HB3	44:HA:323:VAL:HG11	1.83	0.59
45:HB:65:LEU:O	45:HB:91:VAL:HG22	2.02	0.59
44:HC:105:ARG:HG2	44:HC:411:GLU:CD	2.22	0.59
45:HD:34:GLY:O	45:HD:58:ARG:HA	2.01	0.59
45:HD:323:THR:CA	45:HD:326:VAL:HB	2.28	0.59
44:HE:62:VAL:HG13	44:HE:62:VAL:O	2.01	0.59
44:HG:161:TYR:HB3	44:HG:164:LYS:CE	2.32	0.59
45:HH:173:PRO:HG2	45:HH:380:ARG:HD3	1.84	0.59
44:HI:96:LYS:HD2	45:HJ:1:MET:CE	2.32	0.59
44:HI:406:HIS:O	44:HI:409:VAL:HG12	2.02	0.59
45:HJ:186:THR:HA	45:HJ:189:VAL:HG22	1.84	0.59
44:HK:170:THR:O	44:HK:204:LEU:HD12	2.01	0.59
44:HM:5:ILE:O	44:HM:135:PHE:HA	2.02	0.59
45:HN:9:GLY:HA2	45:HN:66:MET:O	2.02	0.59
44:IA:13:GLY:HA2	44:IA:16:VAL:CG1	2.31	0.59
45:IB:68:LEU:HG	45:IB:96:GLY:HA2	1.83	0.59
45:IB:304:ASP:OD1	45:IB:306:ARG:HD3	2.02	0.59
44:IC:272:TYR:OH	44:IC:374:ALA:HB1	2.00	0.59
45:IH:256:ASN:CB	45:IH:350:LYS:HD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:403:MET:HG3	45:IH:407:GLU:CD	2.22	0.59
44:II:271:SER:HB2	44:II:377:MET:CG	2.31	0.59
44:II:328:VAL:CG1	44:II:353:VAL:HG21	2.26	0.59
44:IM:166:LYS:O	44:IM:199:ASP:HB2	2.02	0.59
44:JA:153:LEU:O	44:JA:157:LEU:HG	2.01	0.59
45:JB:217:LEU:HD23	45:JB:217:LEU:H	1.66	0.59
45:JD:66:MET:HG3	45:JD:91:VAL:HG23	1.84	0.59
44:JE:76:ASP:HA	44:JE:79:ARG:HD2	1.84	0.59
44:JE:179:THR:O	45:JF:350:LYS:HA	2.02	0.59
44:JE:261:PRO:HA	45:JH:394:PHE:CD1	2.37	0.59
44:JE:323:VAL:HG11	44:JE:355:ILE:HD12	1.83	0.59
45:JF:355:ASP:O	45:JF:356:ILE:HD13	2.01	0.59
45:JH:8:GLN:OE1	45:JH:65:LEU:HG	2.02	0.59
45:JH:54:ALA:HB2	45:JH:86:ARG:HH22	1.66	0.59
45:JH:310:TYR:CD1	45:JH:371:SER:HB3	2.36	0.59
44:JI:21:TRP:CZ3	44:JI:63:PRO:HB3	2.37	0.59
44:JI:89:PRO:HD3	44:KI:283:HIS:CD2	2.37	0.59
44:JK:402:ARG:HA	44:JK:405:VAL:HG21	1.84	0.59
44:JM:145:THR:HG22	46:JM:501:GTP:O1B	2.02	0.59
44:JM:237:SER:CB	44:JM:320:ARG:HH12	2.15	0.59
44:KA:9:VAL:HG22	44:KA:146:GLY:HA2	1.82	0.59
44:KG:177:VAL:CG2	45:KH:327:ASP:HB3	2.32	0.59
44:KI:187:SER:O	44:KI:190:SER:OG	2.12	0.59
45:KJ:2:ARG:HE	45:KJ:240:LEU:HD12	1.67	0.59
44:KK:256:GLN:HB2	45:KN:397:TRP:CZ2	2.37	0.59
44:LA:10:GLY:N	44:LA:68:LEU:O	2.33	0.59
45:LB:383:GLU:HA	45:LB:386:THR:CG2	2.30	0.59
44:LC:407:TRP:CG	45:LD:255:VAL:HG23	2.37	0.59
45:LD:318:ARG:HB2	45:LD:364:ALA:CB	2.26	0.59
44:LE:273:ALA:HB1	44:LE:274:PRO:HA	1.83	0.59
45:LF:218:THR:CG2	45:LF:219:THR:HG23	2.22	0.59
45:LF:304:ASP:OD2	45:LF:306:ARG:NE	2.33	0.59
45:LF:341:PHE:HD1	45:LF:348:ASN:HD21	1.50	0.59
44:LI:210:TYR:HE1	44:LI:227:LEU:HD13	1.67	0.59
45:LJ:15:GLN:HB3	45:LJ:226:ASN:HD21	1.67	0.59
45:LJ:418:LEU:HA	45:LJ:421:GLU:CG	2.32	0.59
45:MD:256:ASN:C	45:MD:257:LEU:HD22	2.21	0.59
44:ME:52:PHE:CZ	44:ME:239:THR:HG21	2.37	0.59
45:MF:293:MET:HE3	45:MF:367:PHE:HB3	1.83	0.59
44:MG:324:VAL:HG12	44:MG:326:LYS:H	1.67	0.59
45:ML:174:LYS:CE	45:ML:205:GLU:HG3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:231:ALA:HB1	45:ML:270:PHE:CE2	2.37	0.59
44:MM:268:MET:HB3	44:MM:380:ASN:OD1	2.02	0.59
44:NA:152:LEU:HA	44:NA:155:GLU:HB2	1.83	0.59
44:NA:318:MET:O	44:NA:375:VAL:HG23	2.02	0.59
44:NA:402:ARG:HG3	44:NA:405:VAL:HG11	1.84	0.59
45:NB:36:TYR:CD1	45:NB:44:LEU:HD21	2.36	0.59
45:NB:244:GLY:HA2	45:NB:355:ASP:OD2	2.01	0.59
45:ND:199:CYS:O	45:ND:265:PHE:HA	2.02	0.59
45:NN:1:MET:HB2	45:NN:2:ARG:HH11	1.67	0.59
45:NN:32:PRO:HB3	45:NN:81:PHE:HD1	1.65	0.59
45:NN:396:HIS:HA	45:NN:399:THR:OG1	2.02	0.59
44:OA:143:GLY:HA3	46:OA:501:GTP:O2B	2.02	0.59
45:OB:70:PRO:HG3	45:OB:92:PHE:CD1	2.37	0.59
44:OE:5:ILE:HD12	44:OE:135:PHE:CE1	2.36	0.59
44:OE:31:GLN:HB3	44:OE:33:ASP:OD1	2.02	0.59
44:OE:271:SER:HA	44:OE:302:MET:HG3	1.83	0.59
45:OF:274:THR:HG21	45:OF:279:GLN:HG2	1.84	0.59
44:OG:11:GLN:HE22	44:OG:74:VAL:CG1	2.14	0.59
45:OH:177:ASP:N	45:OH:181:GLU:OE2	2.33	0.59
45:OH:335:ASN:O	45:OH:338:SER:OG	2.16	0.59
45:OJ:417:ASP:O	45:OJ:421:GLU:HG3	2.02	0.59
44:OM:208:ALA:HB3	44:OM:302:MET:O	2.01	0.59
45:PD:64:ILE:HG12	45:PD:119:VAL:HG13	1.84	0.59
45:PH:299:MET:HE3	45:PH:305:PRO:CG	2.32	0.59
45:PH:327:ASP:O	45:PH:331:LEU:N	2.35	0.59
44:PI:356:ASN:OD1	44:PI:357:TYR:N	2.30	0.59
45:PJ:135:ILE:HG13	45:PJ:152:ILE:HD11	1.84	0.59
45:PJ:166:THR:OG1	45:PJ:198:GLU:O	2.16	0.59
45:PL:35:THR:O	45:PL:37:HIS:ND1	2.35	0.59
44:QA:188:ILE:HD13	44:QA:425:LEU:HD21	1.84	0.59
44:QC:238:LEU:CD2	44:QC:239:THR:HG23	2.31	0.59
44:QC:288:VAL:HG21	44:QC:323:VAL:CG2	2.32	0.59
45:QD:68:LEU:HD23	45:QD:97:ALA:CB	2.32	0.59
45:QF:8:GLN:NE2	45:QF:14:ASN:HA	2.16	0.59
44:QG:149:LEU:HD12	44:QG:153:LEU:HD11	1.82	0.59
45:QH:143:THR:HG23	45:QH:144:GLY:N	2.17	0.59
44:QI:47:ASP:HB2	44:QI:49:PHE:HD1	1.67	0.59
44:QK:265:ILE:HG12	44:QK:432:TYR:CE1	2.36	0.59
45:QL:178:THR:CB	45:QL:181:GLU:HG3	2.29	0.59
45:QL:318:ARG:CG	45:QL:354:CYS:HB3	2.19	0.59
45:RB:97:ALA:HB2	45:RB:143:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:324:LYS:HG3	44:RC:210:TYR:CZ	2.37	0.59
45:RD:328:GLU:O	45:RD:332:ASN:HB2	2.02	0.59
44:RE:9:VAL:HG21	44:RE:149:LEU:HB3	1.83	0.59
45:RF:246:LEU:HD11	44:RG:224:TYR:OH	2.02	0.59
45:RH:350:LYS:HG2	45:RH:351:SER:N	2.17	0.59
44:RI:249:ASN:OD1	44:RI:250:VAL:N	2.33	0.59
45:RJ:109:GLY:HA3	45:RJ:147:MET:HE3	1.83	0.59
45:RL:260:PHE:HB2	45:RL:263:LEU:CD1	2.19	0.59
44:RM:70:LEU:HD12	44:RM:145:THR:HB	1.82	0.59
44:RM:104:ALA:O	44:RM:108:TYR:N	2.34	0.59
44:RM:117:LEU:HB3	44:RM:121:ARG:NH1	2.17	0.59
44:RM:310:GLY:CA	44:RM:383:ALA:HB2	2.30	0.59
45:RN:119:VAL:HG23	45:RN:122:LYS:HE3	1.84	0.59
44:SA:19:ALA:HA	44:SA:22:GLU:OE1	2.01	0.59
45:SB:182:PRO:HB2	45:SB:388:MET:HE2	1.84	0.59
45:SB:356:ILE:HG23	45:SB:356:ILE:O	2.02	0.59
44:SC:194:LEU:O	44:SC:198:THR:HG22	2.02	0.59
44:SC:402:ARG:HD2	44:SC:402:ARG:O	2.02	0.59
45:SD:96:GLY:O	45:SD:103:LYS:HD3	2.01	0.59
44:SG:1:MET:HG2	44:SG:2:ARG:NH1	2.17	0.59
44:SG:71:GLU:OE1	44:SG:73:THR:HB	2.02	0.59
44:SG:174:SER:HB3	44:SG:207:GLU:HB2	1.84	0.59
45:SH:320:ARG:HD2	45:SH:355:ASP:HB3	1.83	0.59
44:SI:287:SER:O	44:SI:291:ILE:HG23	2.01	0.59
44:SI:320:ARG:NE	44:SI:360:PRO:HG3	2.16	0.59
45:SJ:246:LEU:HD11	44:SK:224:TYR:CE2	2.37	0.59
45:SJ:323:THR:HG21	44:SK:224:TYR:CE2	2.36	0.59
44:SK:101:ASN:HA	44:SK:144:GLY:H	1.66	0.59
45:SL:179:VAL:HG23	45:SL:180:VAL:HG13	1.83	0.59
45:SL:262:ARG:NH1	45:SL:421:GLU:OE1	2.33	0.59
44:SM:156:ARG:CD	44:SM:157:LEU:HG	2.31	0.59
44:TA:304:LYS:HE2	44:TA:387:VAL:HB	1.84	0.59
45:TB:245:GLN:HG2	45:TB:355:ASP:OD1	2.02	0.59
44:TC:141:VAL:HG11	44:TC:172:TYR:HD1	1.66	0.59
45:TD:135:ILE:HD13	45:TD:164:MET:HE1	1.83	0.59
45:TD:251:ARG:HD3	44:TE:105:ARG:NH1	2.17	0.59
45:TD:404:ASP:OD1	45:TD:407:GLU:HG3	2.02	0.59
44:TG:9:VAL:CG1	44:TG:139:ASN:HB3	2.31	0.59
44:TG:141:VAL:HG11	44:TG:187:SER:HA	1.82	0.59
44:TG:420:GLU:CA	44:TG:423:GLU:HG2	2.31	0.59
45:TH:256:ASN:OD1	44:TI:181:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:98:ASP:OD1	44:TI:99:ALA:N	2.35	0.59
44:TI:115:VAL:CG2	44:TI:156:ARG:HD2	2.31	0.59
45:TJ:101:TRP:HB3	45:TJ:398:TYR:CE1	2.37	0.59
45:TJ:156:ARG:HB2	45:TJ:195:ASN:HD21	1.66	0.59
44:TK:271:SER:OG	44:TK:301:MET:HA	2.01	0.59
45:TL:47:ILE:HD11	45:TL:51:TYR:CD2	2.36	0.59
45:TL:178:THR:CG2	45:TL:180:VAL:HG12	2.32	0.59
44:TM:175:PRO:HB3	44:TM:390:ARG:NE	2.17	0.59
44:TM:348:PRO:HD2	45:TN:388:MET:HE2	1.84	0.59
45:TN:97:ALA:HA	45:TN:103:LYS:HE3	1.82	0.59
45:UB:1:MET:HB3	45:UB:46:ARG:NH1	2.16	0.59
45:UB:7:ILE:HG23	45:UB:66:MET:HE3	1.84	0.59
45:UB:131:GLN:NE2	45:UB:251:ARG:HG3	2.17	0.59
45:UB:315:ALA:HB2	45:UB:367:PHE:CE2	2.35	0.59
44:UC:54:SER:OG	44:UC:62:VAL:HB	2.02	0.59
45:UD:306:ARG:HG3	45:UD:307:HIS:CD2	2.37	0.59
44:UE:287:SER:HB3	44:UE:290:GLU:CG	2.30	0.59
44:UE:296:PHE:CE1	44:UE:377:MET:HG3	2.36	0.59
44:UG:3:GLU:OE2	44:UG:132:LEU:N	2.34	0.59
45:UH:1:MET:CE	45:UH:2:ARG:HD3	2.31	0.59
45:UH:324:LYS:HE2	44:UI:210:TYR:CD1	2.36	0.59
44:UI:183:GLU:HA	44:UI:186:ASN:ND2	2.17	0.59
44:UI:362:VAL:HG23	44:UI:368:LEU:O	2.01	0.59
45:UJ:38:GLY:HA3	45:UJ:43:GLN:OE1	2.02	0.59
45:UJ:287:PRO:O	45:UJ:290:THR:HG22	2.01	0.59
45:UL:251:ARG:O	45:UL:255:VAL:HG23	2.01	0.59
44:UM:1:MET:CE	45:UN:70:PRO:HD2	2.32	0.59
45:UN:321:MET:SD	45:UN:353:ILE:HG23	2.42	0.59
45:VB:99:ASN:HA	45:VB:142:GLY:H	1.67	0.59
45:VB:293:MET:HE2	45:VB:367:PHE:HB2	1.82	0.59
45:VB:390:ARG:O	45:VB:392:LYS:NZ	2.34	0.59
44:VE:254:GLU:HG2	45:VH:98:GLY:CA	2.16	0.59
44:VE:311:LYS:O	44:VE:381:SER:HB2	2.01	0.59
45:VH:100:ASN:HB3	45:VH:103:LYS:CB	2.32	0.59
44:VI:171:ILE:CD1	44:VI:204:LEU:HB2	2.31	0.59
45:VJ:271:ALA:HB1	45:VJ:272:PRO:HA	1.83	0.59
44:VK:224:TYR:CD1	44:VK:227:LEU:HD12	2.37	0.59
44:VK:362:VAL:HG12	44:VK:370:LYS:HD3	1.83	0.59
45:VL:135:ILE:HG22	45:VL:137:HIS:ND1	2.16	0.59
45:VL:258:ILE:HD12	45:VL:263:LEU:O	2.02	0.59
44:VM:26:LEU:HD21	44:VM:364:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:193:VAL:HA	45:VN:264:HIS:CE1	2.37	0.59
44:WA:151:SER:OG	44:WA:153:LEU:N	2.34	0.59
44:WA:225:THR:O	44:WA:229:ARG:NH1	2.35	0.59
45:WB:184:ASN:OD1	45:WB:185:ALA:N	2.35	0.59
45:WD:183:TYR:OH	45:WD:393:ALA:O	2.17	0.59
44:WE:101:ASN:HB3	44:WE:182:VAL:CG1	2.19	0.59
44:WE:269:LEU:CD1	44:WE:303:ALA:HB3	2.30	0.59
45:WF:217:LEU:HD11	45:WF:220:PRO:HB3	1.84	0.59
45:WF:287:PRO:O	45:WF:290:THR:HG22	2.02	0.59
45:WF:313:ALA:HB1	45:WF:367:PHE:HE1	1.66	0.59
45:WH:21:TRP:CZ3	45:WH:61:PRO:HB3	2.37	0.59
44:WK:6:SER:O	44:WK:7:ILE:HD13	2.01	0.59
45:WL:165:GLU:OE2	45:WL:250:LEU:HD22	2.02	0.59
45:WL:294:PHE:CE2	45:WL:333:VAL:HG11	2.37	0.59
44:WM:319:TYR:N	44:WM:354:GLY:O	2.33	0.59
45:WN:295:ASP:OD1	45:WN:297:LYS:HG2	2.02	0.59
2:0A:99:GLY:HA3	45:MB:81:PHE:HE1	1.67	0.59
8:0G:105:TYR:HD2	44:JM:77:GLU:HG3	1.66	0.59
23:1M:17:ALA:HA	44:JC:282:TYR:CE2	2.37	0.59
26:1R:114:SER:O	45:BF:359:LYS:NZ	2.27	0.59
27:1W:65:GLY:HA3	45:LH:224:ASP:OD2	2.00	0.59
27:1W:107:GLU:OE1	45:KF:55:THR:OG1	2.21	0.59
27:1W:118:GLY:HA2	45:LF:276:ARG:NH1	2.02	0.59
22:2L:645:ASP:HB2	45:CL:362:LYS:NZ	2.17	0.59
11:3Q:116:PRO:HG3	44:AG:263:PRO:CG	2.31	0.59
28:4C:67:LYS:HD2	44:LM:81:GLY:HA2	1.83	0.59
34:4F:207:THR:OG1	44:HM:76:ASP:OD1	2.20	0.59
37:5B:83:THR:HG21	44:NE:225:THR:HB	1.83	0.59
37:5D:34:PHE:CE2	44:KK:432:TYR:N	2.69	0.59
37:5D:107:TYR:H	44:NM:279:GLU:CA	2.13	0.59
35:5R:85:TRP:O	35:5R:89:ASP:HB2	2.02	0.59
35:5R:222:PRO:O	35:5R:224:ASN:N	2.35	0.59
41:6G:188:LEU:HD23	44:VE:299:ALA:HA	1.84	0.59
11:6Q:106:SER:O	11:6Q:123:MET:HG2	2.03	0.59
35:6R:90:ARG:CZ	44:AM:42:ILE:HD12	2.32	0.59
35:7R:564:ILE:HD11	35:7R:568:ASP:HB2	1.83	0.59
44:AA:274:PRO:HG3	44:AA:286:LEU:HD12	1.84	0.59
45:AB:286:VAL:CG1	45:AB:325:GLU:HG2	2.29	0.59
45:AB:292:GLN:OE1	45:AB:297:LYS:NZ	2.35	0.59
44:AC:141:VAL:CG1	44:AC:172:TYR:HA	2.33	0.59
44:AE:260:VAL:CG2	45:AH:397:TRP:HZ2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:269:LEU:H	44:AK:269:LEU:HD23	1.67	0.59
45:AL:372:THR:HA	45:AL:422:TYR:CZ	2.37	0.59
44:AM:112:LYS:O	44:AM:115:VAL:HG12	2.02	0.59
44:BC:217:LEU:HD21	44:BC:275:ILE:HG22	1.84	0.59
45:BD:72:THR:O	45:BD:75:SER:OG	2.13	0.59
45:BD:134:GLN:HA	45:BD:165:GLU:O	2.01	0.59
45:BD:238:CYS:SG	45:BD:239:CYS:N	2.76	0.59
45:BD:383:GLU:O	45:BD:386:THR:HG22	2.02	0.59
44:BE:90:GLU:OE1	44:CE:280:LYS:HE3	2.01	0.59
44:BE:200:VAL:HG13	44:BE:268:MET:SD	2.42	0.59
45:BF:131:GLN:O	45:BF:163:ILE:HG12	2.02	0.59
44:BK:175:PRO:HB3	44:BK:390:ARG:HH12	1.68	0.59
45:BL:86:ARG:HD2	45:BL:89:ASN:OD1	2.01	0.59
44:BM:328:VAL:O	44:BM:332:ILE:N	2.33	0.59
45:BN:117:LEU:HD22	45:BN:154:LYS:HD2	1.84	0.59
45:CB:105:HIS:NE2	45:CB:150:LEU:HD12	2.17	0.59
45:CB:259:PRO:HB3	44:CC:404:PHE:CE1	2.37	0.59
44:CC:11:GLN:HA	44:CC:14:ILE:HD12	1.84	0.59
45:CH:324:LYS:HD3	44:CI:222:PRO:CG	2.32	0.59
44:CI:268:MET:HB3	44:CI:380:ASN:HB2	1.83	0.59
45:CL:249:ASP:OD1	45:CL:252:LYS:N	2.27	0.59
45:CN:318:ARG:HH11	45:CN:358:PRO:CD	2.13	0.59
44:DC:212:ILE:CD1	44:DC:300:ASN:HA	2.31	0.59
44:DE:88:HIS:ND1	44:DE:91:GLN:OE1	2.35	0.59
44:DG:319:TYR:CD2	44:DG:323:VAL:HG21	2.34	0.59
44:DI:103:PHE:H	44:DI:408:TYR:HE2	1.49	0.59
44:DI:395:PHE:CE2	44:DI:422:ARG:HD3	2.37	0.59
44:DI:419:SER:O	44:DI:423:GLU:HG3	2.02	0.59
44:DK:360:PRO:HD2	44:DK:360:PRO:O	2.01	0.59
44:DM:138:PHE:HZ	44:DM:235:ILE:HG12	1.67	0.59
44:DM:255:PHE:HD1	44:DM:259:LEU:HD12	1.67	0.59
44:DM:273:ALA:HB1	44:DM:274:PRO:HA	1.83	0.59
44:EA:212:ILE:HD13	44:EA:215:ARG:NH2	2.16	0.59
44:EA:287:SER:O	44:EA:291:ILE:HG23	2.01	0.59
45:EB:235:GLY:O	45:EB:316:LEU:HD22	2.02	0.59
44:EC:9:VAL:HG21	44:EC:149:LEU:HB2	1.84	0.59
44:EC:269:LEU:HD23	44:EC:269:LEU:H	1.67	0.59
45:ED:330:MET:O	45:ED:333:VAL:N	2.35	0.59
45:ED:343:GLU:OE2	45:ED:430:ALA:N	2.32	0.59
45:EJ:42:LEU:CD2	45:EJ:356:ILE:HD11	2.32	0.59
44:EM:12:GLY:O	44:EM:16:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:220:GLU:O	44:EM:221:ARG:HB3	2.01	0.59
44:EM:296:PHE:HE2	44:EM:335:ILE:HG13	1.67	0.59
44:EM:417:GLU:O	44:EM:420:GLU:HG2	2.02	0.59
44:EM:433:GLU:O	44:EM:437:ILE:HG23	2.02	0.59
44:FA:272:TYR:HD2	44:FA:275:ILE:HG13	1.66	0.59
44:FA:320:ARG:NE	44:FA:360:PRO:HG3	2.17	0.59
45:FB:4:ILE:HG22	45:FB:132:GLY:H	1.67	0.59
45:FB:24:ILE:HG23	45:FB:27:GLU:OE2	2.02	0.59
45:FB:309:ARG:HH11	45:FB:342:VAL:HG12	1.65	0.59
44:FE:204:LEU:HD11	44:FE:302:MET:CE	2.32	0.59
45:FF:54:ALA:CB	45:GF:283:ALA:HB2	2.31	0.59
45:FF:133:PHE:CD2	45:FF:155:VAL:HG11	2.36	0.59
44:FG:11:GLN:NE2	45:FH:245:GLN:O	2.28	0.59
44:FG:141:VAL:HG23	44:FG:190:SER:OG	2.02	0.59
44:FG:396:ASP:OD1	44:FG:397:LEU:N	2.35	0.59
45:FL:334:GLN:HE22	45:FL:348:ASN:H	1.50	0.59
44:FM:176:GLN:OE1	44:FM:176:GLN:N	2.35	0.59
45:FN:178:THR:HB	45:FN:181:GLU:HG3	1.84	0.59
45:FN:186:THR:HG23	45:FN:415:MET:HE3	1.84	0.59
44:GC:93:ILE:HG12	44:GC:117:LEU:HB3	1.84	0.59
45:GD:3:GLU:OE2	45:GD:127:CYS:HB2	2.01	0.59
45:GD:114:ASP:O	45:GD:118:ASP:N	2.28	0.59
44:GE:171:ILE:CD1	44:GE:204:LEU:HB2	2.32	0.59
44:GG:183:GLU:HG2	44:GG:184:PRO:HD3	1.83	0.59
44:GG:434:GLU:O	44:GG:437:ILE:HG12	2.03	0.59
44:GI:242:LEU:HD11	44:GI:252:ILE:CD1	2.28	0.59
45:GJ:309:ARG:HG2	45:GJ:340:TYR:HA	1.83	0.59
44:GK:208:ALA:HB3	44:GK:302:MET:O	2.03	0.59
44:GK:275:ILE:HG23	44:GK:368:LEU:CD1	2.32	0.59
45:GL:130:LEU:HD21	45:GL:133:PHE:CE1	2.37	0.59
45:GL:292:GLN:HG2	45:GL:298:ASN:ND2	2.17	0.59
44:GM:117:LEU:O	44:GM:120:ASP:HB2	2.02	0.59
44:GM:237:SER:HG	44:GM:272:TYR:HE1	1.50	0.59
45:GN:7:ILE:HB	45:GN:135:ILE:HD12	1.84	0.59
44:HA:202:VAL:CG1	44:HA:270:SER:HB3	2.31	0.59
45:HB:163:ILE:HD11	45:HB:250:LEU:HB3	1.83	0.59
45:HB:239:CYS:HA	45:HB:354:CYS:SG	2.42	0.59
44:HC:123:ARG:HD2	44:HC:124:LYS:N	2.18	0.59
44:HC:177:VAL:CG2	45:HD:331:LEU:HD22	2.32	0.59
44:HC:253:THR:O	44:HC:257:THR:HG23	2.01	0.59
44:HC:315:CYS:O	44:HC:351:PHE:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HE:161:TYR:HB3	44:HE:164:LYS:NZ	2.17	0.59
45:HH:10:GLY:HA2	45:HH:143:THR:HG23	1.83	0.59
45:HH:294:PHE:HD2	45:HH:333:VAL:HG21	1.67	0.59
45:IB:19:LYS:O	45:IB:23:VAL:HG23	2.02	0.59
44:IC:269:LEU:HD23	44:IC:269:LEU:H	1.66	0.59
45:ID:28:HIS:O	45:ID:43:GLN:HB3	2.02	0.59
44:IE:17:GLY:HA2	44:IE:20:CYS:SG	2.42	0.59
45:IF:43:GLN:O	45:IF:44:LEU:HD23	2.02	0.59
44:IG:204:LEU:HD22	44:IG:302:MET:HE2	1.83	0.59
45:IJ:19:LYS:HA	45:IJ:22:GLU:CG	2.32	0.59
44:IK:259:LEU:HD21	44:IK:316:SER:CB	2.32	0.59
44:IM:96:LYS:CB	45:IN:1:MET:HE2	2.32	0.59
44:IM:171:ILE:HA	44:IM:204:LEU:HB2	1.83	0.59
45:IN:110:ALA:O	45:IN:113:ILE:HG22	2.02	0.59
44:JA:188:ILE:HD11	44:JA:425:LEU:HD22	1.83	0.59
44:JE:326:LYS:HD2	45:JH:220:PRO:O	2.02	0.59
44:JG:261:PRO:HG2	44:JG:313:MET:SD	2.42	0.59
44:JI:108:TYR:O	44:JI:112:LYS:HD2	2.02	0.59
45:JL:60:VAL:HG11	45:JL:86:ARG:HH21	1.67	0.59
45:JL:141:GLY:O	45:JL:184:ASN:ND2	2.34	0.59
44:JM:3:GLU:O	44:JM:132:LEU:HA	2.03	0.59
44:JM:100:ALA:CB	45:JN:251:ARG:HD2	2.32	0.59
45:JN:259:PRO:HG2	45:JN:263:LEU:CD1	2.32	0.59
45:JN:337:ASN:HB2	45:JN:341:PHE:CE2	2.37	0.59
44:KA:221:ARG:HH21	45:KB:322:SER:H	1.49	0.59
45:KB:145:SER:HB2	45:KB:188:SER:HB3	1.84	0.59
45:KB:148:GLY:O	45:KB:152:ILE:HG12	2.00	0.59
45:KD:265:PHE:HB3	45:KD:374:ILE:HD13	1.84	0.59
45:KF:141:GLY:HA3	48:KF:502:GDP:O3A	2.01	0.59
45:KF:207:LEU:HB3	45:KF:225:LEU:HD22	1.85	0.59
45:KF:239:CYS:SG	45:KF:248:SER:OG	2.59	0.59
45:KF:263:LEU:HG	45:KF:422:TYR:CE1	2.37	0.59
45:KF:286:VAL:N	45:KF:287:PRO:HD2	2.17	0.59
45:KF:325:GLU:CA	45:KF:328:GLU:HG2	2.32	0.59
44:KI:319:TYR:HE2	44:KI:328:VAL:HG23	1.67	0.59
44:KM:224:TYR:HB3	46:KM:501:GTP:O6	2.02	0.59
44:LA:239:THR:OG1	44:LA:242:LEU:HD12	2.02	0.59
45:LB:105:HIS:O	45:LB:150:LEU:HD12	2.03	0.59
45:LB:267:MET:HG2	45:LB:369:GLY:O	2.01	0.59
44:LC:188:ILE:HD12	44:LC:425:LEU:CD1	2.32	0.59
45:LD:33:THR:O	45:LD:58:ARG:NH1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:240:LEU:O	45:LF:240:LEU:HD23	2.02	0.59
45:LH:73:MET:O	45:LH:76:VAL:HG12	2.01	0.59
45:LJ:68:LEU:HD12	45:LJ:143:THR:HB	1.84	0.59
45:LL:36:TYR:CE2	45:LL:44:LEU:HD11	2.37	0.59
45:LL:267:MET:HG3	45:LL:299:MET:CE	2.33	0.59
45:LN:321:MET:SD	45:LN:353:ILE:HD12	2.42	0.59
44:MA:36:MET:CE	44:MA:37:PRO:HD2	2.32	0.59
44:MA:209:ILE:O	44:MA:212:ILE:HG22	2.01	0.59
44:ME:275:ILE:HG23	44:ME:368:LEU:CD1	2.31	0.59
45:MF:334:GLN:HG2	45:MF:341:PHE:CD2	2.36	0.59
44:MG:236:SER:O	44:MG:240:ALA:HB2	2.02	0.59
44:MI:200:VAL:HG23	44:MI:256:GLN:HB3	1.84	0.59
44:MK:105:ARG:O	44:MK:110:ILE:HG22	2.02	0.59
44:MK:210:TYR:OH	45:ML:323:THR:OG1	2.19	0.59
45:ML:257:LEU:HD11	45:ML:314:SER:HB2	1.83	0.59
44:NA:242:LEU:HD21	44:NA:252:ILE:CB	2.32	0.59
45:NB:265:PHE:HB3	45:NB:374:ILE:CD1	2.33	0.59
45:ND:132:GLY:HA2	45:ND:162:ARG:HD2	1.84	0.59
45:ND:286:VAL:CG2	45:ND:287:PRO:HD3	2.32	0.59
44:NE:14:ILE:HD12	44:NE:75:ILE:CD1	2.32	0.59
45:NF:86:ARG:HA	45:OF:281:TYR:CD2	2.37	0.59
45:NF:343:GLU:OE2	45:NF:429:THR:HA	2.02	0.59
44:NG:136:LEU:HD23	44:NG:167:LEU:HB2	1.84	0.59
44:NG:285:GLN:HE22	44:NG:287:SER:HB2	1.66	0.59
45:NH:227:HIS:O	45:NH:230:SER:OG	2.16	0.59
45:NH:248:SER:CB	45:NH:252:LYS:HD3	2.31	0.59
44:NI:372:MET:SD	44:NI:373:ARG:NH2	2.74	0.59
45:NJ:5:VAL:HG12	45:NJ:133:PHE:CE1	2.36	0.59
44:NK:91:GLN:HB3	44:NK:121:ARG:CZ	2.31	0.59
44:NK:98:ASP:OD1	44:NK:145:THR:HB	2.02	0.59
44:NK:348:PRO:HD2	45:NN:388:MET:HE2	1.85	0.59
44:NM:88:HIS:CE1	44:NM:90:GLU:HB2	2.37	0.59
44:NM:291:ILE:HB	44:NM:375:VAL:CG1	2.33	0.59
45:NN:175:VAL:HG22	45:NN:205:GLU:HB3	1.83	0.59
45:NN:213:ARG:HE	45:NN:297:LYS:HD2	1.67	0.59
44:OA:151:SER:HA	44:OA:154:LEU:HD12	1.83	0.59
44:OA:185:TYR:OH	44:OA:398:MET:HB3	2.02	0.59
44:OA:224:TYR:H	45:OB:323:THR:CG2	2.14	0.59
44:OA:352:LYS:HD2	45:OD:177:ASP:O	2.02	0.59
45:OB:61:PRO:HG2	45:OB:84:LEU:HB3	1.83	0.59
45:OB:344:TRP:CE3	45:OB:345:ILE:HG23	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:103:PHE:CD2	44:OC:189:LEU:HD13	2.37	0.59
44:OC:346:TRP:CD1	45:OF:391:ARG:HG3	2.37	0.59
45:OF:143:THR:O	45:OF:147:MET:HG2	2.01	0.59
45:OF:377:MET:HA	45:OF:380:ARG:HG2	1.84	0.59
44:OG:276:ILE:HG23	44:OG:280:LYS:HB2	1.83	0.59
45:OH:383:GLU:O	45:OH:386:THR:HG22	2.02	0.59
44:OI:315:CYS:SG	44:OI:379:SER:HB3	2.42	0.59
45:OJ:294:PHE:CD2	45:OJ:333:VAL:HG21	2.37	0.59
45:OL:222:TYR:HB3	48:OL:502:GDP:O6	2.03	0.59
45:ON:30:ILE:HG12	45:ON:36:TYR:HA	1.84	0.59
45:ON:285:THR:OG1	45:ON:288:GLU:HG2	2.02	0.59
44:PA:19:ALA:O	44:PA:229:ARG:NH1	2.35	0.59
45:PB:113:ILE:HA	45:PB:116:VAL:CG1	2.32	0.59
45:PB:185:ALA:HA	45:PB:188:SER:OG	2.01	0.59
45:PD:2:ARG:HH12	45:PD:240:LEU:CD1	2.15	0.59
45:PD:167:PHE:HB3	45:PD:202:ILE:HD11	1.83	0.59
45:PF:4:ILE:HG22	45:PF:5:VAL:N	2.17	0.59
45:PF:236:VAL:CG2	45:PF:253:LEU:HD22	2.32	0.59
44:PI:192:HIS:CE1	44:PI:420:GLU:HG3	2.36	0.59
44:PK:243:ARG:C	44:PK:244:PHE:HD1	2.06	0.59
44:PM:68:LEU:CD1	44:PM:93:ILE:HD13	2.32	0.59
45:PN:3:GLU:OE2	45:PN:62:ARG:NH1	2.35	0.59
45:QB:268:ILE:HG22	45:QB:368:VAL:HA	1.84	0.59
44:QC:292:THR:HG21	44:QC:331:SER:CB	2.32	0.59
45:QD:73:MET:O	45:QD:76:VAL:HG12	2.02	0.59
44:QE:231:ILE:HA	44:QE:234:VAL:HG23	1.83	0.59
45:QF:326:VAL:O	45:QF:330:MET:HG2	2.02	0.59
44:QG:269:LEU:H	44:QG:269:LEU:HD23	1.67	0.59
45:QJ:14:ASN:HB3	45:QJ:73:MET:CB	2.32	0.59
45:QJ:234:SER:HA	45:QJ:237:THR:CG2	2.31	0.59
45:QJ:270:PHE:CD2	45:QJ:273:LEU:HD21	2.36	0.59
45:QJ:306:ARG:HA	45:QJ:340:TYR:CE1	2.38	0.59
44:QM:259:LEU:CD1	44:QM:378:ILE:HG22	2.31	0.59
44:QM:344:VAL:HG21	44:QM:346:TRP:NE1	2.17	0.59
45:QN:267:MET:HG3	45:QN:301:CYS:HB2	1.84	0.59
44:RA:284:GLU:HG3	44:RA:286:LEU:CD2	2.31	0.59
45:RB:40:SER:OG	45:RB:43:GLN:HG3	2.02	0.59
45:RB:396:HIS:HA	45:RB:399:THR:OG1	2.02	0.59
44:RC:157:LEU:HA	44:RC:160:ASP:HB2	1.84	0.59
45:RD:240:LEU:HD23	45:RD:240:LEU:O	2.02	0.59
44:RE:79:ARG:HG3	44:RE:92:LEU:CD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:287:SER:O	44:RE:290:GLU:HG2	2.02	0.59
44:RE:316:SER:OG	44:RE:378:ILE:O	2.16	0.59
44:RI:233:GLN:HG3	44:RI:272:TYR:CE2	2.37	0.59
44:RI:350:GLY:C	45:RJ:179:VAL:HG12	2.22	0.59
45:RJ:293:MET:HG3	45:RJ:367:PHE:HB2	1.84	0.59
44:RK:254:GLU:HA	44:RK:257:THR:HG21	1.84	0.59
44:RK:258:ASN:CG	45:RL:179:VAL:HG22	2.21	0.59
44:RM:287:SER:O	44:RM:291:ILE:HG23	2.03	0.59
44:RM:314:ALA:HB3	44:RM:380:ASN:CB	2.32	0.59
45:RN:254:ALA:HA	45:RN:258:ILE:CD1	2.32	0.59
45:SB:139:LEU:HD13	45:SB:168:SER:HB3	1.84	0.59
45:SB:178:THR:CG2	45:SB:180:VAL:HG12	2.32	0.59
45:SB:314:SER:HA	45:SB:350:LYS:HB3	1.82	0.59
44:SC:315:CYS:HA	44:SC:379:SER:HA	1.84	0.59
45:SF:246:LEU:HA	44:SG:11:GLN:OE1	2.02	0.59
45:SF:325:GLU:OE1	44:SG:221:ARG:NH2	2.35	0.59
45:SH:9:GLY:HA2	45:SH:66:MET:O	2.02	0.59
45:SL:65:LEU:HB2	45:SL:90:PHE:CE1	2.37	0.59
45:SN:114:ASP:HA	45:SN:117:LEU:HB3	1.85	0.59
45:SN:165:GLU:OE2	45:SN:250:LEU:HD13	2.02	0.59
44:TA:71:GLU:OE1	44:TA:73:THR:HB	2.02	0.59
44:TA:167:LEU:HG	44:TA:200:VAL:CG2	2.32	0.59
44:TA:304:LYS:HE2	44:TA:387:VAL:CB	2.31	0.59
44:TC:7:ILE:O	44:TC:137:VAL:HA	2.01	0.59
44:TC:71:GLU:OE1	44:TC:73:THR:HB	2.03	0.59
44:TC:101:ASN:OD1	44:TC:144:GLY:N	2.35	0.59
45:TD:135:ILE:HD13	45:TD:164:MET:CE	2.31	0.59
45:TD:316:LEU:HB2	45:TD:366:THR:O	2.02	0.59
45:TF:172:SER:HB3	45:TF:203:ASP:HB3	1.83	0.59
45:TF:175:VAL:HG11	45:TF:208:TYR:CE2	2.37	0.59
45:TH:193:VAL:HG23	45:TH:264:HIS:CE1	2.37	0.59
44:TI:208:ALA:HB3	44:TI:302:MET:O	2.02	0.59
45:TJ:42:LEU:HG	45:TJ:45:GLU:OE1	2.01	0.59
45:TJ:156:ARG:CB	45:TJ:195:ASN:HD21	2.14	0.59
44:TM:22:GLU:HG3	44:TM:83:TYR:CE2	2.37	0.59
44:TM:322:ASP:OD2	44:TM:372:MET:HE2	2.02	0.59
44:UA:14:ILE:HD11	44:UA:69:ASP:HB2	1.85	0.59
44:UC:5:ILE:HB	44:UC:135:PHE:CD1	2.37	0.59
44:UC:194:LEU:HB2	44:UC:198:THR:OG1	2.02	0.59
44:UC:298:PRO:HG3	44:UC:308:ARG:CZ	2.32	0.59
44:UE:68:LEU:HD21	44:UE:118:CYS:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:272:PRO:HD2	45:UF:361:LEU:HD13	1.84	0.59
44:UG:332:ILE:HD12	44:UG:351:PHE:CD2	2.37	0.59
45:UH:5:VAL:HG12	45:UH:62:ARG:HB2	1.83	0.59
45:UH:251:ARG:O	45:UH:255:VAL:HG23	2.00	0.59
44:UK:210:TYR:CD1	44:UK:227:LEU:HD21	2.37	0.59
44:UM:72:PRO:HA	44:UM:94:SER:OG	2.02	0.59
44:UM:213:CYS:HA	44:UM:217:LEU:CD1	2.21	0.59
45:UN:398:TYR:HB3	45:UN:403:MET:HE2	1.82	0.59
44:VA:211:ASP:HA	44:VA:214:ARG:HB3	1.83	0.59
45:VB:50:TYR:CE2	45:VB:241:ARG:HD3	2.37	0.59
45:VB:403:MET:HG3	45:VB:407:GLU:OE2	2.02	0.59
45:VD:288:GLU:HA	45:VD:291:GLN:CG	2.32	0.59
45:VF:2:ARG:NH2	45:VF:240:LEU:HG	2.17	0.59
44:VI:71:GLU:OE1	44:VI:73:THR:N	2.35	0.59
45:VJ:143:THR:OG1	48:VJ:501:GDP:O2B	2.20	0.59
45:VL:405:GLU:OE1	45:VL:405:GLU:N	2.35	0.59
44:VM:340:THR:HG23	44:VM:341:ILE:HG13	1.84	0.59
45:VN:101:TRP:HB3	45:VN:398:TYR:HE2	1.66	0.59
44:WA:231:ILE:O	44:WA:235:ILE:HG12	2.01	0.59
45:WB:180:VAL:HG21	45:WB:398:TYR:HE2	1.66	0.59
45:WB:245:GLN:O	45:WB:246:LEU:HD12	2.01	0.59
44:WC:269:LEU:HD23	44:WC:269:LEU:H	1.67	0.59
45:WD:22:GLU:HG2	45:WD:81:PHE:CD1	2.38	0.59
44:WG:2:ARG:HH21	44:WG:243:ARG:HA	1.66	0.59
44:WG:350:GLY:HA2	45:WJ:179:VAL:HG12	1.84	0.59
44:WI:19:ALA:HA	44:WI:22:GLU:OE1	2.01	0.59
45:WN:315:ALA:HB3	45:WN:351:SER:HA	1.85	0.59
45:WN:420:SER:HA	45:WN:423:GLN:HG3	1.83	0.59
4:OC:89:PHE:HZ	44:EI:19:ALA:HA	1.67	0.59
7:OF:78:THR:HG21	45:ED:42:LEU:HD21	1.83	0.59
14:OU:236:LEU:HD21	45:WB:33:THR:CG2	2.29	0.59
2:1A:138:TRP:CZ3	44:AE:81:GLY:HA2	2.37	0.59
13:1T:229:THR:HG21	44:MC:264:ARG:CG	2.33	0.59
32:2I:124:PRO:HG3	44:FC:120:ASP:OD2	2.00	0.59
27:2W:189:ARG:HG3	44:KM:48:ALA:HB2	1.84	0.59
16:3X:81:ARG:NE	45:MN:276:ARG:HD3	2.17	0.59
28:4C:25:LYS:HZ1	44:LM:364:PRO:HA	1.67	0.59
35:4R:105:GLU:OE2	45:BH:279:GLN:HG3	2.01	0.59
37:5D:60:GLY:HA2	45:KN:386:THR:N	2.16	0.59
38:5F:27:ARG:O	44:OC:219:ILE:HD13	2.03	0.59
38:5G:9:TYR:CG	38:5G:10:PRO:HD3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:141:CYS:HA	38:5G:144:LEU:CG	2.33	0.59
38:5H:60:TRP:CE3	45:ON:279:GLN:HG2	2.37	0.59
35:5R:261:LEU:HB2	35:5R:350:PHE:HE1	1.67	0.59
36:5S:112:THR:HA	36:5S:117:LYS:HD2	1.85	0.59
36:5S:163:LYS:HA	36:5S:166:GLN:HG2	1.83	0.59
41:6G:268:VAL:HG11	44:VA:340:THR:HG22	1.83	0.59
35:7R:207:ASP:OD1	35:7R:210:GLU:N	2.20	0.59
35:7R:394:GLU:OE1	35:7R:394:GLU:N	2.32	0.59
44:AA:224:TYR:HB3	46:AA:501:GTP:O6	2.02	0.59
45:AB:132:GLY:N	45:AB:162:ARG:HD3	2.18	0.59
45:AB:271:ALA:HB3	45:AB:365:VAL:HG21	1.83	0.59
45:AB:304:ASP:OD1	45:AB:305:PRO:HD2	2.01	0.59
45:AB:330:MET:SD	45:AB:349:ILE:HG12	2.42	0.59
44:AC:155:GLU:HA	44:AC:197:HIS:CE1	2.37	0.59
44:AC:388:PHE:CE2	44:AC:428:LEU:HD21	2.38	0.59
45:AD:19:LYS:O	45:AD:23:VAL:HG23	2.01	0.59
45:AD:330:MET:HE3	45:AD:333:VAL:CG1	2.32	0.59
44:AE:89:PRO:HG2	44:BE:280:LYS:HB3	1.84	0.59
44:AE:384:ILE:O	44:AE:387:VAL:HG22	2.02	0.59
45:AF:282:ARG:O	45:MF:54:ALA:HB1	2.02	0.59
45:AJ:116:VAL:O	45:AJ:119:VAL:HG12	2.02	0.59
45:AN:135:ILE:HG13	45:AN:152:ILE:CD1	2.29	0.59
45:BD:248:SER:CB	45:BD:252:LYS:HD2	2.31	0.59
44:BE:13:GLY:HA2	44:BE:16:VAL:HG12	1.84	0.59
44:BE:212:ILE:HD11	44:BE:300:ASN:HA	1.83	0.59
45:BF:240:LEU:HD12	45:BF:240:LEU:O	2.03	0.59
45:BJ:32:PRO:HG3	45:BJ:81:PHE:CE2	2.37	0.59
45:BJ:262:ARG:C	45:BJ:263:LEU:HD12	2.22	0.59
45:BL:9:GLY:HA2	45:BL:66:MET:O	2.02	0.59
45:BL:178:THR:HG22	45:BL:180:VAL:H	1.68	0.59
44:BM:137:VAL:O	44:BM:168:GLY:HA2	2.02	0.59
44:CA:320:ARG:HB2	44:CA:358:GLN:O	2.01	0.59
45:CB:22:GLU:HG2	45:CB:81:PHE:CG	2.37	0.59
45:CB:100:ASN:HB3	45:CB:103:LYS:HB2	1.85	0.59
44:CC:53:PHE:CE2	44:CC:63:PRO:HG3	2.36	0.59
44:CE:203:MET:HB2	44:CE:269:LEU:CD2	2.31	0.59
45:CF:31:ASP:HB3	45:CF:32:PRO:HD2	1.83	0.59
45:CH:58:ARG:NH2	45:CH:86:ARG:HH12	2.00	0.59
45:CH:81:PHE:HA	45:CH:84:LEU:HD13	1.82	0.59
45:CH:87:PRO:HG2	45:DH:281:TYR:CZ	2.37	0.59
45:CH:356:ILE:O	45:CH:356:ILE:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CK:135:PHE:O	44:CK:136:LEU:HD12	2.02	0.59
44:CK:230:LEU:HD12	44:CK:275:ILE:HD13	1.84	0.59
45:CL:141:GLY:HA3	48:CL:501:GDP:PB	2.42	0.59
45:CL:259:PRO:HA	44:CM:404:PHE:CZ	2.37	0.59
44:CM:51:THR:O	44:CM:64:ARG:HD2	2.02	0.59
45:CN:374:ILE:HA	45:CN:377:MET:CE	2.31	0.59
44:DA:25:CYS:HA	44:DA:30:ILE:CD1	2.29	0.59
44:DA:296:PHE:CE2	44:DA:335:ILE:HG21	2.36	0.59
45:DB:99:ASN:C	45:DB:142:GLY:HA3	2.22	0.59
45:DB:323:THR:O	45:DB:326:VAL:N	2.35	0.59
45:DD:4:ILE:HG22	45:DD:132:GLY:N	2.16	0.59
45:DD:286:VAL:HB	45:DD:325:GLU:OE1	2.02	0.59
44:DG:88:HIS:HE1	44:DG:90:GLU:HG2	1.66	0.59
44:DG:95:GLY:C	44:DG:96:LYS:HD2	2.23	0.59
44:DK:246:GLY:HA2	44:DK:357:TYR:CD2	2.37	0.59
44:DM:271:SER:N	44:DM:377:MET:SD	2.75	0.59
44:DM:294:SER:HA	44:DM:297:GLU:HG3	1.84	0.59
45:DN:86:ARG:NH2	45:EN:282:ARG:HA	2.17	0.59
45:EB:36:TYR:CD2	45:EB:44:LEU:HD11	2.36	0.59
45:EB:374:ILE:HD11	45:EB:377:MET:HE1	1.84	0.59
44:EC:318:MET:C	44:EC:375:VAL:HG23	2.22	0.59
45:ED:234:SER:O	45:ED:238:CYS:HB3	2.02	0.59
45:EF:396:HIS:O	45:EF:399:THR:HG22	2.02	0.59
44:EG:238:LEU:CD1	44:EG:378:ILE:HD11	2.32	0.59
45:EN:202:ILE:HA	45:EN:300:MET:HE1	1.83	0.59
45:EN:310:TYR:N	45:EN:340:TYR:O	2.32	0.59
44:FA:268:MET:HG2	44:FA:380:ASN:CG	2.22	0.59
44:FA:269:LEU:HG	44:FA:379:SER:OG	2.02	0.59
45:FB:28:HIS:CE1	45:FB:241:ARG:HD2	2.37	0.59
44:FC:250:VAL:HG22	44:FC:255:PHE:HE1	1.66	0.59
44:FC:278:ALA:N	44:FC:369:ALA:HB2	2.17	0.59
45:FD:268:ILE:HG23	45:FD:300:MET:HE2	1.83	0.59
44:FE:200:VAL:HG13	44:FE:268:MET:CE	2.32	0.59
45:FH:45:GLU:C	45:FH:46:ARG:HD2	2.22	0.59
44:FK:323:VAL:CG2	44:FK:373:ARG:HG2	2.31	0.59
44:FM:232:ALA:O	44:FM:236:SER:N	2.31	0.59
45:FN:268:ILE:HG21	45:FN:368:VAL:HG22	1.81	0.59
44:GA:320:ARG:CZ	44:GA:360:PRO:HA	2.32	0.59
44:GC:66:VAL:HG22	44:GC:68:LEU:CD1	2.32	0.59
44:GE:47:ASP:OD1	44:GE:50:ASN:HB2	2.02	0.59
44:GE:398:MET:HE1	45:GF:345:ILE:HG13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:203:ASP:O	45:GF:207:LEU:HG	2.02	0.59
44:GG:169:PHE:CD1	44:GG:202:VAL:HG21	2.37	0.59
44:GG:210:TYR:CD1	45:GH:324:LYS:HD2	2.36	0.59
44:GG:295:ALA:O	44:GG:301:MET:HE1	2.02	0.59
44:GG:319:TYR:CD1	44:GG:375:VAL:HG23	2.37	0.59
44:GK:210:TYR:CB	45:GL:324:LYS:HD2	2.32	0.59
44:GK:270:SER:HB3	44:GK:378:ILE:CD1	2.31	0.59
44:GK:439:THR:HB	45:GN:391:ARG:HD3	1.84	0.59
44:GM:2:ARG:HH21	44:GM:243:ARG:HA	1.67	0.59
44:GM:269:LEU:CD1	44:GM:303:ALA:HB3	2.29	0.59
44:GM:293:ASN:OD1	44:GM:335:ILE:HD11	2.02	0.59
45:GN:99:ASN:HA	45:GN:142:GLY:N	2.13	0.59
45:GN:167:PHE:CZ	45:GN:200:MET:HG3	2.37	0.59
44:HA:1:MET:O	44:HA:131:GLY:HA3	2.02	0.59
44:HA:217:LEU:HD21	44:HA:368:LEU:HD22	1.84	0.59
44:HA:313:MET:HE3	44:HA:381:SER:HA	1.84	0.59
45:HB:232:ALA:CB	45:HB:268:ILE:HD12	2.31	0.59
45:HD:50:TYR:CD2	45:HD:241:ARG:HD3	2.38	0.59
45:HD:317:PHE:HB2	45:HD:353:ILE:CD1	2.32	0.59
44:HE:316:SER:HA	44:HE:352:LYS:HE3	1.85	0.59
45:HF:60:VAL:HG11	45:HF:86:ARG:NE	2.14	0.59
45:HF:416:ASN:O	45:HF:419:VAL:HG12	2.02	0.59
44:HI:224:TYR:HE2	46:HI:501:GTP:C4	2.20	0.59
45:HJ:287:PRO:HG3	45:HJ:329:GLN:NE2	2.18	0.59
45:HJ:326:VAL:O	45:HJ:330:MET:HG2	2.01	0.59
45:HL:22:GLU:HG2	45:HL:81:PHE:CD2	2.37	0.59
45:HL:253:LEU:O	45:HL:257:LEU:HD13	2.03	0.59
44:IA:145:THR:HG23	46:IA:501:GTP:O1B	2.02	0.59
44:IA:394:LYS:NZ	45:IB:347:ASN:OD1	2.33	0.59
45:IB:47:ILE:O	45:IB:47:ILE:HG13	2.01	0.59
45:IB:317:PHE:CE2	45:IB:326:VAL:HG13	2.37	0.59
44:IC:326:LYS:HE3	45:IF:208:TYR:CD1	2.37	0.59
45:ID:22:GLU:HG2	45:ID:81:PHE:CG	2.37	0.59
45:ID:49:VAL:HG11	45:ID:241:ARG:CG	2.32	0.59
45:ID:103:LYS:HB2	45:ID:401:GLU:OE1	2.01	0.59
44:IK:52:PHE:HZ	44:IK:239:THR:HG21	1.68	0.59
45:IL:39:ASP:H	45:IL:43:GLN:HE22	1.50	0.59
45:IL:86:ARG:HE	45:IL:89:ASN:CG	2.05	0.59
45:IL:113:ILE:O	45:IL:116:VAL:HG12	2.03	0.59
45:IL:213:ARG:HD3	45:IL:297:LYS:CE	2.32	0.59
44:IM:271:SER:HB2	44:IM:377:MET:HE2	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:40:SER:O	45:JB:43:GLN:NE2	2.34	0.59
44:JC:217:LEU:HD13	44:JC:277:SER:HB3	1.84	0.59
44:JC:247:ALA:O	45:JF:11:GLN:NE2	2.34	0.59
44:JC:335:ILE:HG13	44:JC:338:LYS:NZ	2.17	0.59
44:JG:109:THR:HG21	44:JG:411:GLU:OE2	2.02	0.59
44:JG:203:MET:HA	44:JG:203:MET:CE	2.32	0.59
44:JG:257:THR:HA	45:JJ:397:TRP:CZ3	2.37	0.59
44:JI:313:MET:HE1	44:JI:346:TRP:HZ2	1.67	0.59
45:JL:3:GLU:HB2	45:JL:62:ARG:NH2	2.14	0.59
45:JL:268:ILE:O	45:JL:300:MET:HB2	2.02	0.59
44:JM:251:ASP:HB2	44:JM:254:GLU:OE1	2.02	0.59
44:JM:296:PHE:CE2	44:JM:335:ILE:HG13	2.37	0.59
45:JN:175:VAL:HG22	45:JN:205:GLU:HG3	1.84	0.59
44:KA:89:PRO:HD3	44:LA:283:HIS:CE1	2.37	0.59
44:KA:268:MET:HG3	44:KA:379:SER:C	2.22	0.59
44:KA:278:ALA:N	44:KA:369:ALA:HB2	2.18	0.59
45:KB:226:ASN:OD1	48:KB:501:GDP:N1	2.31	0.59
44:KC:263:PRO:HD3	45:KF:396:HIS:CD2	2.37	0.59
44:KE:398:MET:CE	45:KF:345:ILE:HG13	2.31	0.59
45:KL:139:LEU:HA	45:KL:145:SER:HB2	1.84	0.59
45:KL:262:ARG:HG3	45:KL:262:ARG:NH1	2.17	0.59
45:KN:135:ILE:HG22	45:KN:137:HIS:ND1	2.18	0.59
45:LB:21:TRP:CZ2	45:LB:63:ALA:HB2	2.37	0.59
45:LB:173:PRO:HD2	45:LB:174:LYS:NZ	2.16	0.59
44:LC:212:ILE:CD1	44:LC:300:ASN:HA	2.32	0.59
45:LD:285:THR:HB	45:LD:287:PRO:HD2	1.83	0.59
44:LE:80:THR:O	44:LE:80:THR:HG22	2.02	0.59
44:LE:88:HIS:ND1	44:LE:89:PRO:HD2	2.17	0.59
44:LE:183:GLU:N	44:LE:184:PRO:HD2	2.17	0.59
45:LH:152:ILE:O	45:LH:155:VAL:HG22	2.03	0.59
44:LI:26:LEU:HD23	44:LI:26:LEU:O	2.02	0.59
44:LI:363:VAL:HG22	44:LI:364:PRO:HD2	1.85	0.59
45:LJ:372:THR:HA	45:LJ:422:TYR:CE2	2.35	0.59
45:LL:102:ALA:HB2	45:LL:403:MET:CE	2.31	0.59
44:LM:138:PHE:CD1	44:LM:169:PHE:HB2	2.37	0.59
44:MA:274:PRO:HD3	44:MA:374:ALA:HA	1.83	0.59
44:MC:183:GLU:HG2	44:MC:184:PRO:HD3	1.83	0.59
45:MD:6:HIS:HE2	45:MD:8:GLN:HB3	1.67	0.59
44:ME:173:PRO:HD2	44:ME:391:LEU:HD21	1.83	0.59
45:MF:134:GLN:HA	45:MF:165:GLU:HB2	1.83	0.59
45:MF:251:ARG:O	45:MF:255:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:217:LEU:O	45:MH:217:LEU:HD12	2.02	0.59
44:MI:101:ASN:OD1	45:MJ:252:LYS:HG3	2.02	0.59
44:MM:71:GLU:OE2	44:MM:73:THR:HG23	2.01	0.59
44:NC:175:PRO:HG3	44:NC:390:ARG:NH1	2.17	0.59
44:NC:226:ASN:O	44:NC:230:LEU:HD23	2.03	0.59
45:ND:217:LEU:HD11	45:ND:220:PRO:HG3	1.85	0.59
45:NF:303:ALA:HB1	45:NF:373:ALA:HB1	1.84	0.59
45:NJ:102:ALA:HB2	45:NJ:398:TYR:HD1	1.67	0.59
44:NK:287:SER:O	44:NK:290:GLU:HG2	2.01	0.59
44:NK:296:PHE:CE2	44:NK:335:ILE:HG21	2.36	0.59
44:NK:398:MET:HE2	45:NL:346:PRO:HD2	1.84	0.59
45:NL:304:ASP:HB3	45:NL:307:HIS:HD1	1.67	0.59
44:NM:385:ALA:O	44:NM:388:PHE:N	2.35	0.59
45:OB:173:PRO:HG2	45:OB:380:ARG:HD3	1.84	0.59
44:OC:88:HIS:ND1	44:PC:283:HIS:HB2	2.16	0.59
45:OD:10:GLY:HA2	45:OD:143:THR:HG21	1.85	0.59
45:OD:45:GLU:OE1	45:OD:46:ARG:HG2	2.03	0.59
45:OD:54:ALA:HB3	45:OD:58:ARG:O	2.01	0.59
44:OG:99:ALA:HB3	44:OG:145:THR:HB	1.84	0.59
44:OG:183:GLU:HG2	44:OG:184:PRO:CD	2.32	0.59
44:OK:181:VAL:HG12	45:OL:256:ASN:HB3	1.82	0.59
45:OL:97:ALA:HA	45:OL:103:LYS:NZ	2.17	0.59
44:OM:216:ASN:HB3	44:OM:275:ILE:O	2.03	0.59
44:OM:288:VAL:CA	44:OM:291:ILE:HG12	2.33	0.59
44:PA:175:PRO:HD2	44:PA:207:GLU:OE1	2.02	0.59
44:PA:186:ASN:OD1	44:PA:187:SER:N	2.35	0.59
45:PB:375:GLN:OE1	45:PB:423:GLN:HB3	2.03	0.59
44:PC:141:VAL:HG11	44:PC:172:TYR:HD1	1.65	0.59
45:PD:68:LEU:O	45:PD:96:GLY:N	2.35	0.59
44:PE:136:LEU:HD22	44:PE:167:LEU:HD22	1.84	0.59
45:PF:20:PHE:CG	45:PF:24:ILE:C	2.75	0.59
45:PF:130:LEU:HD11	45:PF:133:PHE:HE1	1.67	0.59
45:PF:268:ILE:HG22	45:PF:368:VAL:CA	2.32	0.59
45:PF:325:GLU:HA	45:PF:328:GLU:HG2	1.85	0.59
44:PG:188:ILE:HG23	44:PG:425:LEU:CD1	2.30	0.59
45:PH:64:ILE:HG13	45:PH:120:VAL:HG22	1.83	0.59
45:PJ:207:LEU:HD12	45:PJ:225:LEU:HD13	1.83	0.59
45:PN:251:ARG:O	45:PN:255:VAL:HG23	2.02	0.59
45:QB:54:ALA:HB1	45:RB:282:ARG:O	2.01	0.59
44:QC:244:PHE:HB2	44:QC:356:ASN:ND2	2.16	0.59
44:QC:319:TYR:N	44:QC:354:GLY:O	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:272:TYR:HB2	44:QE:302:MET:CE	2.32	0.59
45:QF:161:ASP:OD1	45:QF:162:ARG:NH1	2.34	0.59
44:QG:14:ILE:HD11	44:QG:69:ASP:HB2	1.85	0.59
45:QH:290:THR:HG21	45:QH:329:GLN:OE1	2.02	0.59
44:QI:16:VAL:O	44:QI:20:CYS:N	2.29	0.59
44:QI:99:ALA:O	44:QI:105:ARG:HD3	2.02	0.59
45:QJ:113:ILE:CD1	45:QJ:150:LEU:HB3	2.33	0.59
44:QK:256:GLN:HB2	44:QK:260:VAL:CG2	2.32	0.59
45:QL:101:TRP:NE1	45:QL:145:SER:O	2.36	0.59
44:QM:296:PHE:CD2	44:QM:335:ILE:HG21	2.37	0.59
44:RA:241:SER:OG	44:RA:250:VAL:O	2.11	0.59
44:RC:286:LEU:HA	44:RC:290:GLU:OE2	2.01	0.59
44:RC:394:LYS:HA	44:RC:397:LEU:CD1	2.29	0.59
45:RD:318:ARG:HD3	45:RD:358:PRO:HD3	1.83	0.59
44:RG:287:SER:HA	44:RG:373:ARG:CD	2.32	0.59
44:RG:352:LYS:HD3	44:RG:353:VAL:N	2.18	0.59
45:RH:68:LEU:HD13	45:RH:147:MET:CE	2.33	0.59
45:RH:131:GLN:OE1	45:RH:131:GLN:HA	2.01	0.59
45:RL:289:LEU:O	45:RL:365:VAL:HG21	2.02	0.59
44:RM:103:PHE:HB2	44:RM:186:ASN:HB3	1.85	0.59
45:RN:278:SER:HA	45:RN:281:TYR:CD2	2.38	0.59
45:SB:183:TYR:O	45:SB:186:THR:HG22	2.02	0.59
44:SC:1:MET:HE2	45:SD:94:GLN:HB3	1.85	0.59
45:SF:99:ASN:HA	45:SF:142:GLY:HA3	1.85	0.59
45:SF:347:ASN:O	44:SG:181:VAL:HG12	2.02	0.59
45:SH:247:ASN:ND2	44:SI:71:GLU:OE1	2.35	0.59
44:SI:287:SER:HA	44:SI:373:ARG:NH2	2.17	0.59
45:SJ:2:ARG:NH2	45:SJ:240:LEU:HG	2.17	0.59
45:SJ:246:LEU:HD11	44:SK:224:TYR:HE2	1.67	0.59
45:SJ:257:LEU:HD12	45:SJ:258:ILE:CD1	2.32	0.59
45:SJ:268:ILE:HG22	45:SJ:368:VAL:HG22	1.83	0.59
45:SJ:286:VAL:HG13	45:SJ:289:LEU:HD12	1.84	0.59
44:SK:104:ALA:HB3	44:SK:411:GLU:HB2	1.84	0.59
44:SM:70:LEU:HA	44:SM:95:GLY:HA3	1.84	0.59
44:SM:389:SER:O	44:SM:393:HIS:N	2.34	0.59
45:SN:30:ILE:HD13	45:SN:36:TYR:HA	1.84	0.59
44:TA:30:ILE:CG2	44:TA:34:GLY:HA2	2.32	0.59
45:TB:309:ARG:CD	45:TB:426:GLN:HG3	2.33	0.59
44:TC:131:GLY:O	44:TC:133:GLN:NE2	2.34	0.59
45:TD:330:MET:SD	45:TD:349:ILE:HG21	2.43	0.59
45:TD:406:MET:HA	45:TD:409:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:287:SER:O	44:TE:291:ILE:HG12	2.03	0.59
45:TF:8:GLN:NE2	45:TF:17:GLY:HA3	2.16	0.59
45:TF:267:MET:HE2	45:TF:299:MET:HB3	1.84	0.59
44:TI:271:SER:O	44:TI:377:MET:HG2	2.03	0.59
44:TK:34:GLY:O	44:TK:60:LYS:HA	2.03	0.59
45:TL:67:ASP:OD1	45:TL:68:LEU:N	2.35	0.59
45:TN:383:GLU:O	45:TN:386:THR:HG22	2.02	0.59
44:UA:270:SER:HA	44:UA:378:ILE:HA	1.84	0.59
45:UB:322:SER:CB	44:UC:223:THR:HB	2.33	0.59
44:UC:22:GLU:HG3	44:UC:83:TYR:OH	2.01	0.59
44:UC:349:THR:HG22	45:UD:388:MET:HE3	1.83	0.59
45:UF:345:ILE:HA	44:UG:398:MET:HE2	1.83	0.59
44:UG:212:ILE:CG2	44:UG:275:ILE:HD12	2.33	0.59
44:UG:387:VAL:HA	44:UG:390:ARG:CG	2.32	0.59
44:UG:422:ARG:NH1	44:UG:426:ALA:HB2	2.17	0.59
45:UH:70:PRO:HG3	45:UH:93:GLY:O	2.02	0.59
44:UK:223:THR:HG22	44:UK:226:ASN:OD1	2.03	0.59
45:UL:405:GLU:O	45:UL:409:THR:OG1	2.20	0.59
44:UM:25:CYS:O	44:UM:29:GLY:N	2.35	0.59
44:UM:272:TYR:HB2	44:UM:376:CYS:SG	2.42	0.59
44:VA:101:ASN:HA	44:VA:144:GLY:CA	2.32	0.59
44:VA:145:THR:HG22	46:VA:501:GTP:PG	2.42	0.59
44:VC:12:GLY:O	44:VC:16:VAL:HG12	2.02	0.59
44:VC:305:CYS:HG	44:VC:387:VAL:HG13	1.67	0.59
45:VD:294:PHE:CD2	45:VD:333:VAL:HG11	2.36	0.59
44:VE:14:ILE:CD1	44:VE:69:ASP:HB2	2.33	0.59
45:VF:311:LEU:HD22	45:VF:344:TRP:HZ2	1.67	0.59
44:VG:97:GLU:HG3	44:VG:105:ARG:HH12	1.67	0.59
45:VJ:28:HIS:CE1	45:VJ:241:ARG:HD3	2.38	0.59
44:VK:209:ILE:O	44:VK:212:ILE:HG22	2.01	0.59
44:VK:268:MET:HB2	44:VK:379:SER:O	2.01	0.59
44:VM:26:LEU:HD21	44:VM:363:VAL:HA	1.82	0.59
44:VM:273:ALA:HB1	44:VM:274:PRO:HA	1.83	0.59
45:VN:324:LYS:O	45:VN:328:GLU:HG2	2.02	0.59
44:WC:5:ILE:CG1	44:WC:135:PHE:HB3	2.31	0.59
44:WC:88:HIS:CE1	44:WC:90:GLU:HG2	2.38	0.59
45:WD:372:THR:O	45:WD:375:GLN:HG2	2.02	0.59
44:WE:249:ASN:OD1	44:WE:250:VAL:N	2.35	0.59
45:WF:253:LEU:O	45:WF:257:LEU:HD13	2.02	0.59
45:WL:2:ARG:NE	45:WL:240:LEU:HD11	2.18	0.59
44:WM:157:LEU:HD11	44:WM:166:LYS:CE	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:280:LYS:HE3	44:WM:283:HIS:ND1	2.17	0.59
45:WN:64:ILE:HD11	45:WN:123:GLU:HG3	1.83	0.59
45:WN:102:ALA:HB2	45:WN:398:TYR:HD1	1.66	0.59
7:0F:84:TYR:O	44:EE:82:THR:HG21	2.00	0.59
11:0Q:116:PRO:HG3	44:AA:263:PRO:CG	2.32	0.59
5:1D:177:THR:HG21	45:EF:47:ILE:H	1.66	0.59
22:1L:766:LYS:HE3	44:AC:84:ARG:HH22	1.67	0.59
11:1Q:115:LYS:CE	44:AC:264:ARG:HH21	2.14	0.59
27:1W:114:ASN:ND2	45:LF:279:GLN:HG3	2.16	0.59
2:2A:36:ARG:HH22	45:MJ:356:ILE:HG12	1.64	0.59
27:2W:189:ARG:HD3	44:KM:46:ASP:N	2.04	0.59
31:4H:183:PHE:HD2	45:AL:224:ASP:HA	1.67	0.59
37:5C:102:TYR:CD1	44:KI:394:LYS:HD3	2.37	0.59
37:5C:108:ARG:NH2	44:KI:392:ASP:OD2	2.34	0.59
37:5C:175:LYS:HE3	45:KL:429:THR:CG2	2.30	0.59
37:5D:27:LYS:CE	45:KN:392:LYS:HG2	2.32	0.59
37:5D:46:ILE:HG21	44:KK:434:GLU:C	2.22	0.59
38:5F:42:TYR:CB	44:OC:281:ALA:HB1	2.32	0.59
38:5F:120:GLU:HG3	38:5F:121:GLU:H	1.66	0.59
38:5G:141:CYS:HA	38:5G:144:LEU:HG	1.85	0.59
38:5H:22:LYS:HG3	38:5H:29:LYS:HZ1	1.67	0.59
39:5J:113:GLN:HA	45:NJ:339:SER:OG	2.02	0.59
35:5R:207:ASP:OD2	35:5R:209:PHE:HB3	2.03	0.59
35:5R:301:PRO:HB3	44:CI:47:ASP:OD2	2.02	0.59
35:5R:403:ASN:OD1	35:5R:404:LEU:N	2.35	0.59
35:5R:491:GLN:O	35:5R:494:GLU:HG2	2.02	0.59
40:6F:54:TYR:CD2	40:6F:55:THR:HG23	2.38	0.59
35:7R:222:PRO:CA	35:7R:224:ASN:H	2.14	0.59
44:AA:53:PHE:O	44:AA:64:ARG:NE	2.33	0.59
44:AA:387:VAL:O	44:AA:391:LEU:HD13	2.01	0.59
45:AB:325:GLU:O	45:AB:328:GLU:HG2	2.02	0.59
45:AB:392:LYS:HE2	45:AB:395:LEU:CD2	2.32	0.59
45:AD:252:LYS:O	45:AD:255:VAL:HG12	2.02	0.59
44:AG:13:GLY:O	44:AG:17:GLY:N	2.31	0.59
45:AH:201:VAL:HG23	45:AH:301:CYS:SG	2.42	0.59
44:AM:307:PRO:HB2	44:AM:312:TYR:CE1	2.37	0.59
45:AN:105:HIS:CD2	45:AN:150:LEU:HB2	2.37	0.59
44:BA:214:ARG:O	44:BA:218:ASP:HA	2.02	0.59
44:BA:288:VAL:HG12	44:BA:373:ARG:HE	1.67	0.59
44:BA:301:MET:HE2	44:BA:301:MET:HA	1.84	0.59
44:BC:11:GLN:NE2	45:BD:245:GLN:O	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BC:392:ASP:OD2	44:BC:422:ARG:NH1	2.35	0.59
45:BD:180:VAL:HG12	45:BD:180:VAL:O	2.02	0.59
45:BF:293:MET:HG3	45:BF:367:PHE:HB2	1.82	0.59
44:BG:56:THR:HG23	44:BG:58:ALA:H	1.67	0.59
44:BG:70:LEU:HD13	44:BG:110:ILE:CD1	2.32	0.59
44:BG:336:LYS:HE2	44:BG:343:PHE:CD1	2.37	0.59
45:BH:207:LEU:HB3	45:BH:225:LEU:CD2	2.32	0.59
45:BH:245:GLN:C	45:BH:246:LEU:HD12	2.23	0.59
45:BJ:117:LEU:HD21	45:BJ:121:ARG:NH2	2.18	0.59
44:BK:324:VAL:CG1	44:BK:325:PRO:HD2	2.30	0.59
45:BL:325:GLU:O	45:BL:329:GLN:HG3	2.03	0.59
44:BM:260:VAL:HG13	44:BM:265:ILE:O	2.03	0.59
44:BM:404:PHE:HD2	45:BN:259:PRO:HA	1.67	0.59
45:BN:398:TYR:O	45:BN:403:MET:HB2	2.02	0.59
44:CA:23:LEU:HD11	44:CA:361:THR:HG23	1.83	0.59
44:CE:185:TYR:OH	44:CE:403:ALA:O	2.19	0.59
45:CH:135:ILE:HG13	45:CH:152:ILE:CD1	2.32	0.59
45:CH:286:VAL:HB	45:CH:325:GLU:OE2	2.03	0.59
44:CI:271:SER:O	44:CI:377:MET:HG2	2.02	0.59
44:CK:134:GLY:HA3	44:CK:164:LYS:HZ1	1.67	0.59
44:CK:203:MET:HG3	44:CK:304:LYS:NZ	2.16	0.59
45:CL:67:ASP:HB2	45:CL:73:MET:HE3	1.83	0.59
45:CL:332:ASN:HA	45:CL:335:ASN:HD22	1.67	0.59
44:DA:3:GLU:HB3	44:DA:64:ARG:CZ	2.32	0.59
44:DA:139:ASN:O	44:DA:170:THR:HA	2.02	0.59
44:DA:275:ILE:CA	44:DA:368:LEU:HD11	2.24	0.59
45:DB:253:LEU:O	45:DB:257:LEU:HD13	2.02	0.59
44:DC:240:ALA:O	44:DC:243:ARG:HG2	2.02	0.59
44:DG:6:SER:O	44:DG:7:ILE:HD13	2.02	0.59
44:DG:54:SER:HB3	44:DG:64:ARG:CZ	2.33	0.59
45:DH:113:ILE:CD1	45:DH:150:LEU:HD22	2.33	0.59
45:DH:278:SER:HA	45:DH:281:TYR:CE2	2.37	0.59
45:DJ:318:ARG:HD3	45:DJ:358:PRO:CG	2.33	0.59
45:DJ:329:GLN:O	45:DJ:333:VAL:HG23	2.01	0.59
44:DK:161:TYR:HB3	44:DK:164:LYS:NZ	2.18	0.59
45:DL:245:GLN:OE1	45:DL:353:ILE:HG21	2.03	0.59
45:DN:374:ILE:HG13	45:DN:378:PHE:CE2	2.36	0.59
44:EA:141:VAL:CG1	44:EA:172:TYR:HA	2.32	0.59
45:EB:130:LEU:HB3	45:EB:162:ARG:HD2	1.84	0.59
45:ED:67:ASP:OD2	45:ED:72:THR:HG21	2.03	0.59
45:ED:259:PRO:HA	44:EE:404:PHE:CE1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:69:GLU:OE1	45:EF:71:GLY:N	2.35	0.59
45:EF:186:THR:HG21	45:EF:385:PHE:CE1	2.37	0.59
45:EF:295:ASP:OD1	45:EF:296:ALA:N	2.35	0.59
45:EH:2:ARG:HD3	44:EI:72:PRO:HG2	1.84	0.59
45:EH:69:GLU:OE1	45:EH:71:GLY:N	2.34	0.59
45:EH:165:GLU:OE2	45:EH:236:VAL:HG11	2.02	0.59
44:EI:11:GLN:O	44:EI:14:ILE:HG22	2.03	0.59
44:EI:111:GLY:O	44:EI:115:VAL:HG23	2.02	0.59
45:EJ:11:GLN:HA	45:EJ:14:ASN:HD21	1.65	0.59
45:EJ:269:GLY:N	45:EJ:367:PHE:O	2.32	0.59
45:EJ:377:MET:O	45:EJ:380:ARG:HG2	2.02	0.59
45:EL:183:TYR:CE1	45:EL:388:MET:HE3	2.37	0.59
45:EN:215:LEU:CD1	45:EN:275:SER:HA	2.32	0.59
45:EN:249:ASP:OD1	45:EN:252:LYS:N	2.30	0.59
45:FB:185:ALA:O	45:FB:189:VAL:HG23	2.03	0.59
45:FB:290:THR:HG21	45:FB:329:GLN:OE1	2.03	0.59
44:FC:288:VAL:HG11	44:FC:327:ASP:CB	2.32	0.59
44:FE:183:GLU:N	44:FE:184:PRO:HD2	2.17	0.59
45:FF:123:GLU:OE1	45:FF:123:GLU:HA	2.03	0.59
45:FF:211:CYS:SG	45:FF:217:LEU:HD11	2.43	0.59
44:FG:298:PRO:CG	44:FG:308:ARG:HH12	2.14	0.59
45:FL:193:VAL:HG21	45:FL:418:LEU:HD22	1.83	0.59
45:FL:302:ALA:HB3	45:FL:377:MET:HE2	1.84	0.59
44:FM:6:SER:HB2	44:FM:138:PHE:CE2	2.32	0.59
45:GB:310:TYR:O	45:GB:342:VAL:HB	2.02	0.59
44:GC:372:MET:CG	44:GC:373:ARG:HH11	2.15	0.59
45:GD:87:PRO:HG2	45:GD:278:SER:HB2	1.85	0.59
45:GD:113:ILE:HG13	45:GD:116:VAL:CG1	2.32	0.59
45:GD:113:ILE:O	45:GD:117:LEU:N	2.22	0.59
45:GD:200:MET:HE1	45:GD:268:ILE:HG22	1.84	0.59
45:GD:315:ALA:O	45:GD:316:LEU:HD22	2.02	0.59
45:GD:334:GLN:OE1	45:GD:347:ASN:HA	2.02	0.59
44:GE:210:TYR:CE1	44:GE:227:LEU:HD11	2.37	0.59
45:GF:311:LEU:O	45:GF:342:VAL:HG11	2.02	0.59
45:GF:404:ASP:OD1	45:GF:407:GLU:N	2.32	0.59
44:GG:287:SER:O	44:GG:291:ILE:HG23	2.03	0.59
44:GG:291:ILE:HG13	44:GG:292:THR:N	2.17	0.59
45:GH:330:MET:CE	45:GH:349:ILE:HG21	2.32	0.59
44:GI:185:TYR:OH	44:GI:398:MET:HB3	2.02	0.59
44:GK:176:GLN:NE2	44:GK:207:GLU:OE2	2.35	0.59
44:GK:270:SER:CB	44:GK:378:ILE:HD13	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:310:GLY:O	44:GK:311:LYS:HE2	2.03	0.59
44:GK:387:VAL:HA	44:GK:390:ARG:HH11	1.67	0.59
45:GL:81:PHE:O	45:GL:84:LEU:HD13	2.02	0.59
44:GM:69:ASP:OD1	44:GM:71:GLU:N	2.32	0.59
44:GM:221:ARG:NH2	45:GN:325:GLU:HB3	2.18	0.59
44:GM:269:LEU:HD12	44:GM:301:MET:HB3	1.83	0.59
45:GN:325:GLU:HA	45:GN:328:GLU:HG2	1.83	0.59
44:HA:258:ASN:HA	45:HD:179:VAL:CG2	2.32	0.59
44:HA:271:SER:OG	44:HA:301:MET:HA	2.01	0.59
45:HB:66:MET:HA	45:HB:91:VAL:CG2	2.30	0.59
45:HB:278:SER:O	45:HB:281:TYR:N	2.33	0.59
45:HB:387:ALA:O	45:HB:390:ARG:HG2	2.01	0.59
45:HD:15:GLN:O	45:HD:19:LYS:N	2.35	0.59
44:HE:7:ILE:HD11	44:HE:122:ILE:CD1	2.32	0.59
44:HE:183:GLU:HA	44:HE:186:ASN:ND2	2.17	0.59
44:HE:315:CYS:SG	44:HE:317:MET:HB3	2.42	0.59
45:HF:187:LEU:HD11	45:HF:408:PHE:CE1	2.37	0.59
44:HG:157:LEU:HD23	44:HG:166:LYS:CD	2.31	0.59
45:HH:295:ASP:OD1	45:HH:296:ALA:N	2.34	0.59
45:HJ:317:PHE:HE2	45:HJ:326:VAL:HG22	1.67	0.59
44:HK:242:LEU:HD11	44:HK:252:ILE:CG1	2.31	0.59
45:HL:3:GLU:O	45:HL:131:GLN:HB3	2.02	0.59
45:HL:309:ARG:HH21	45:HL:310:TYR:HB2	1.67	0.59
44:HM:18:ASN:O	44:HM:22:GLU:OE1	2.20	0.59
44:IA:183:GLU:HG2	44:IA:184:PRO:CD	2.32	0.59
45:IB:392:LYS:O	45:IB:395:LEU:HB2	2.02	0.59
44:IC:88:HIS:CG	44:IC:89:PRO:HD2	2.38	0.59
45:ID:110:ALA:HA	45:ID:113:ILE:HG12	1.85	0.59
44:IE:142:GLY:O	46:IE:501:GTP:H5'	2.02	0.59
45:IF:192:LEU:HD12	45:IF:196:ALA:HB2	1.83	0.59
44:IG:296:PHE:HE2	44:IG:335:ILE:HG21	1.67	0.59
45:IH:290:THR:HG21	45:IH:329:GLN:OE1	2.02	0.59
45:IJ:4:ILE:O	45:IJ:62:ARG:HD2	2.01	0.59
44:IK:156:ARG:O	44:IK:159:VAL:HG12	2.02	0.59
44:IK:241:SER:HB2	44:IK:249:ASN:OD1	2.02	0.59
44:IK:319:TYR:HB2	44:IK:355:ILE:CD1	2.30	0.59
44:IM:272:TYR:HA	44:IM:375:VAL:O	2.02	0.59
45:IN:246:LEU:HB2	45:IN:352:SER:HA	1.83	0.59
45:JB:309:ARG:H	45:JB:372:THR:HG1	1.46	0.59
45:JB:330:MET:CA	45:JB:333:VAL:HG12	2.31	0.59
44:JE:75:ILE:O	44:JE:78:VAL:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:7:ILE:HD12	45:JH:135:ILE:CD1	2.33	0.59
45:JH:284:LEU:HB3	45:JH:362:LYS:NZ	2.18	0.59
45:JJ:213:ARG:NE	45:JJ:297:LYS:HB3	2.16	0.59
44:JK:139:ASN:OD1	44:JK:170:THR:HG22	2.02	0.59
45:JL:46:ARG:HG2	45:JL:46:ARG:O	2.03	0.59
45:JL:261:PRO:HD2	45:JL:262:ARG:H	1.67	0.59
44:KA:394:LYS:O	44:KA:398:MET:HG2	2.02	0.59
45:KD:182:PRO:HG2	45:KD:388:MET:CE	2.32	0.59
45:KD:240:LEU:O	45:KD:240:LEU:HD23	2.02	0.59
44:KE:80:THR:O	44:KE:80:THR:HG22	2.02	0.59
44:KE:358:GLN:OE1	44:KE:358:GLN:HA	2.02	0.59
45:KF:36:TYR:O	45:KF:37:HIS:ND1	2.35	0.59
45:KF:186:THR:HG21	45:KF:385:PHE:CD1	2.37	0.59
45:KF:311:LEU:CD2	45:KF:342:VAL:HG11	2.25	0.59
44:KI:177:VAL:HG22	45:KJ:331:LEU:HD22	1.83	0.59
44:KK:3:GLU:HG2	44:KK:64:ARG:HH12	1.67	0.59
44:KK:269:LEU:HD12	44:KK:269:LEU:O	2.01	0.59
45:LB:20:PHE:O	45:LB:24:ILE:HG12	2.02	0.59
45:LD:64:ILE:HD11	45:LD:120:VAL:HA	1.84	0.59
45:LF:286:VAL:HG22	45:LF:363:MET:CE	2.32	0.59
44:LI:68:LEU:HD21	44:LI:118:CYS:HB2	1.83	0.59
44:LI:88:HIS:ND1	44:LI:90:GLU:HG2	2.17	0.59
44:LI:96:LYS:HA	45:LJ:1:MET:HE1	1.85	0.59
45:LL:186:THR:O	45:LL:189:VAL:HG12	2.02	0.59
45:LL:404:ASP:HB2	45:LL:407:GLU:OE1	2.02	0.59
45:LN:60:VAL:HG21	45:LN:86:ARG:HG2	1.85	0.59
44:MA:91:GLN:HG2	44:MA:91:GLN:O	2.00	0.59
45:MB:69:GLU:OE2	45:MB:72:THR:HG23	2.01	0.59
44:MC:111:GLY:CA	44:MC:149:LEU:HD21	2.31	0.59
44:MC:280:LYS:HA	44:MC:283:HIS:ND1	2.17	0.59
45:MF:230:SER:HA	45:MF:233:MET:HE2	1.84	0.59
45:MF:309:ARG:H	45:MF:372:THR:CG2	2.15	0.59
44:MG:319:TYR:OH	44:MG:328:VAL:HG23	2.02	0.59
45:MH:207:LEU:CD1	45:MH:225:LEU:HB3	2.32	0.59
45:MJ:172:SER:OG	45:MJ:205:GLU:HB2	2.02	0.59
45:ML:420:SER:O	45:ML:423:GLN:HG3	2.02	0.59
44:NA:431:ASP:O	44:NA:435:VAL:HG23	2.03	0.59
45:NB:342:VAL:HG13	45:NB:345:ILE:HG22	1.84	0.59
44:NC:236:SER:O	44:NC:240:ALA:N	2.36	0.59
45:ND:214:THR:HG23	45:ND:215:LEU:CD1	2.27	0.59
45:NF:2:ARG:HA	45:NF:131:GLN:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:137:HIS:O	45:NF:168:SER:HA	2.02	0.59
44:NG:4:VAL:HB	44:NG:52:PHE:CE1	2.36	0.59
44:NG:242:LEU:HD21	44:NG:252:ILE:CG1	2.30	0.59
45:NH:61:PRO:HD2	45:NH:84:LEU:O	2.01	0.59
44:NI:332:ILE:HD12	44:NI:351:PHE:CE2	2.36	0.59
44:NI:340:THR:CG2	44:NI:341:ILE:HD12	2.17	0.59
44:NM:179:THR:HG21	45:NN:246:LEU:CD2	2.31	0.59
44:OA:346:TRP:CE2	45:OD:393:ALA:HB3	2.37	0.59
44:OC:210:TYR:CE1	44:OC:227:LEU:HD21	2.37	0.59
45:OD:242:PHE:HB3	45:OD:243:PRO:CD	2.32	0.59
45:OF:309:ARG:NE	45:OF:339:SER:O	2.36	0.59
45:OF:407:GLU:O	45:OF:410:GLU:HG2	2.01	0.59
44:OG:261:PRO:HB3	45:OJ:394:PHE:CE1	2.38	0.59
44:OG:274:PRO:HD3	44:OG:374:ALA:HA	1.84	0.59
44:OI:212:ILE:CD1	44:OI:300:ASN:HA	2.23	0.59
44:OI:291:ILE:HG13	44:OI:292:THR:N	2.17	0.59
45:OJ:372:THR:HA	45:OJ:422:TYR:CE2	2.37	0.59
45:OJ:372:THR:HA	45:OJ:422:TYR:HE2	1.66	0.59
44:OK:237:SER:HA	44:OK:320:ARG:CZ	2.33	0.59
45:OL:187:LEU:HD21	45:OL:408:PHE:CD1	2.37	0.59
44:OM:88:HIS:ND1	44:OM:90:GLU:HG3	2.18	0.59
45:ON:86:ARG:HA	45:PN:281:TYR:CD1	2.37	0.59
45:ON:87:PRO:HD2	45:PN:281:TYR:CD1	2.38	0.59
45:ON:208:TYR:HA	45:ON:211:CYS:SG	2.42	0.59
44:PA:137:VAL:O	44:PA:168:GLY:HA2	2.01	0.59
44:PA:223:THR:O	44:PA:227:LEU:HG	2.02	0.59
44:PC:269:LEU:H	44:PC:269:LEU:HD23	1.67	0.59
45:PD:77:ARG:O	45:PD:82:GLY:HA3	2.01	0.59
45:PF:150:LEU:O	45:PF:150:LEU:HD23	2.03	0.59
45:PF:382:ALA:O	45:PF:386:THR:HG23	2.03	0.59
44:PG:183:GLU:N	44:PG:184:PRO:HD2	2.16	0.59
44:PK:260:VAL:HG22	44:PK:266:HIS:HA	1.84	0.59
44:PK:321:GLY:N	44:PK:356:ASN:O	2.34	0.59
44:PK:325:PRO:HA	44:PK:328:VAL:CG1	2.30	0.59
44:PK:414:GLU:HB2	44:PK:417:GLU:HG2	1.83	0.59
45:PL:16:ILE:HD13	45:PL:226:ASN:OD1	2.03	0.59
45:PN:315:ALA:O	45:PN:352:SER:N	2.35	0.59
44:QA:141:VAL:HG12	44:QA:171:ILE:O	2.03	0.59
45:QB:325:GLU:H	44:QC:221:ARG:HH12	1.48	0.59
45:QD:73:MET:HE3	45:QD:77:ARG:NH2	2.18	0.59
45:QD:133:PHE:O	45:QD:164:MET:HA	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:19:LYS:HB3	45:QF:226:ASN:HB3	1.83	0.59
45:QF:103:LYS:O	45:QF:108:GLU:HG3	2.02	0.59
44:QI:88:HIS:HE1	44:QI:90:GLU:HG2	1.66	0.59
45:QJ:8:GLN:NE2	45:QJ:65:LEU:HG	2.18	0.59
45:QJ:113:ILE:HD12	45:QJ:150:LEU:HB3	1.84	0.59
45:QJ:239:CYS:HB3	45:QJ:316:LEU:CD2	2.29	0.59
45:QL:309:ARG:HD2	45:QL:342:VAL:N	2.16	0.59
45:QL:343:GLU:OE2	45:QL:430:ALA:N	2.35	0.59
44:QM:102:ASN:O	44:QM:105:ARG:N	2.35	0.59
44:QM:256:GLN:OE1	45:QN:397:TRP:NE1	2.36	0.59
44:RA:141:VAL:HG21	44:RA:172:TYR:HE1	1.67	0.59
44:RC:183:GLU:N	44:RC:184:PRO:HD2	2.16	0.59
44:RE:75:ILE:HG23	44:RE:92:LEU:CD2	2.33	0.59
44:RE:316:SER:HB3	44:RE:352:LYS:HZ3	1.68	0.59
45:RF:8:GLN:NE2	45:RF:17:GLY:HA3	2.18	0.59
44:RG:84:ARG:HG3	44:RG:85:GLN:OE1	2.01	0.59
45:RH:3:GLU:HB3	45:RH:49:VAL:HA	1.83	0.59
45:RH:131:GLN:O	45:RH:163:ILE:HG22	2.02	0.59
45:RJ:324:LYS:HG2	44:RK:222:PRO:O	2.02	0.59
45:RN:101:TRP:NE1	45:RN:146:GLY:HA2	2.18	0.59
45:RN:102:ALA:HB1	45:RN:403:MET:CE	2.32	0.59
44:SA:326:LYS:HB2	45:SB:212:PHE:HZ	1.67	0.59
45:SB:31:ASP:N	45:SB:35:THR:O	2.21	0.59
44:SC:212:ILE:HD11	44:SC:300:ASN:CA	2.32	0.59
45:SF:167:PHE:CE2	45:SF:233:MET:HG2	2.38	0.59
45:SF:207:LEU:HA	45:SF:210:ILE:HD12	1.85	0.59
44:SI:271:SER:N	44:SI:377:MET:SD	2.74	0.59
45:SJ:149:THR:O	45:SJ:152:ILE:HB	2.02	0.59
45:SJ:237:THR:HG1	45:SJ:240:LEU:HB3	1.67	0.59
44:SK:350:GLY:CA	45:SL:179:VAL:HG12	2.32	0.59
44:SM:123:ARG:HG2	44:SM:127:ASP:OD2	2.03	0.59
45:TB:237:THR:OG1	45:TB:240:LEU:HB3	2.01	0.59
44:TC:63:PRO:CG	44:TC:86:LEU:HG	2.30	0.59
44:TC:320:ARG:HG3	44:TC:374:ALA:HB3	1.84	0.59
44:TE:156:ARG:HA	44:TE:159:VAL:CG1	2.33	0.59
44:TE:254:GLU:CG	45:TF:98:GLY:HA2	2.26	0.59
44:TG:200:VAL:HA	44:TG:266:HIS:HB2	1.84	0.59
45:TH:193:VAL:HA	45:TH:264:HIS:CE1	2.36	0.59
45:TJ:260:PHE:HB3	45:TJ:261:PRO:HD2	1.84	0.59
44:TK:254:GLU:HG2	45:TL:98:GLY:HA2	1.85	0.59
44:UA:9:VAL:HA	44:UA:68:LEU:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:208:ALA:O	44:UA:212:ILE:HG12	2.02	0.59
44:UA:313:MET:HE1	44:UA:344:VAL:HG11	1.84	0.59
44:UA:316:SER:OG	44:UA:352:LYS:HB3	2.02	0.59
45:UB:309:ARG:O	45:UB:371:SER:OG	2.18	0.59
45:UB:318:ARG:HG2	45:UB:354:CYS:CB	2.30	0.59
44:UC:224:TYR:HA	44:UC:227:LEU:HD12	1.85	0.59
44:UC:383:ALA:O	44:UC:386:GLU:HG2	2.02	0.59
45:UD:19:LYS:HD3	45:UD:22:GLU:OE2	2.03	0.59
44:UG:13:GLY:HA2	44:UG:16:VAL:HG22	1.85	0.59
44:UG:209:ILE:CD1	44:UG:212:ILE:HG13	2.32	0.59
45:UH:200:MET:HA	45:UH:266:PHE:O	2.02	0.59
44:UI:5:ILE:CD1	44:UI:132:LEU:HD11	2.30	0.59
45:UJ:72:THR:HG22	45:UJ:73:MET:CE	2.33	0.59
45:UJ:344:TRP:CZ3	45:UJ:345:ILE:HB	2.37	0.59
44:UM:183:GLU:N	44:UM:184:PRO:HD2	2.17	0.59
45:UN:209:ASP:O	45:UN:213:ARG:N	2.34	0.59
44:VA:88:HIS:CE1	44:VA:90:GLU:HG2	2.37	0.59
45:VD:61:PRO:CD	45:VD:84:LEU:HB3	2.33	0.59
45:VD:135:ILE:HG13	45:VD:152:ILE:HD11	1.83	0.59
45:VD:333:VAL:O	45:VD:336:LYS:HB2	2.02	0.59
45:VD:337:ASN:CB	45:VD:340:TYR:HB2	2.21	0.59
44:VG:89:PRO:HG3	44:WG:280:LYS:CD	2.32	0.59
45:VH:133:PHE:O	45:VH:165:GLU:N	2.28	0.59
44:VI:138:PHE:CD2	44:VI:169:PHE:HB2	2.36	0.59
45:VJ:387:ALA:O	45:VJ:390:ARG:HG2	2.01	0.59
44:VK:236:SER:O	44:VK:240:ALA:N	2.35	0.59
45:WB:284:LEU:HB2	45:WB:362:LYS:HZ1	1.66	0.59
45:WD:105:HIS:CD2	45:WD:150:LEU:HB2	2.37	0.59
45:WH:201:VAL:HG11	45:WH:374:ILE:HD11	1.84	0.59
45:WH:321:MET:CE	45:WH:326:VAL:HG21	2.31	0.59
45:WH:405:GLU:O	45:WH:409:THR:HG23	2.02	0.59
44:WI:141:VAL:HG22	44:WI:187:SER:HA	1.84	0.59
44:WI:259:LEU:HD21	44:WI:316:SER:CB	2.33	0.59
44:WK:165:SER:O	44:WK:166:LYS:HD3	2.03	0.59
44:WK:180:ALA:HB1	45:WL:256:ASN:HD21	1.66	0.59
44:WK:407:TRP:CZ3	45:WL:255:VAL:HA	2.37	0.59
44:WM:157:LEU:HD11	44:WM:166:LYS:HE3	1.83	0.59
44:WM:185:TYR:O	44:WM:189:LEU:HG	2.01	0.59
44:WM:425:LEU:O	44:WM:429:GLU:HG3	2.03	0.59
45:WN:237:THR:OG1	45:WN:240:LEU:HB3	2.01	0.59
45:WN:344:TRP:CH2	45:WN:425:TYR:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:220:SER:HB3	45:FD:42:LEU:HD21	1.83	0.59
1:6H:342:VAL:HG13	45:FJ:243:PRO:HB2	1.83	0.59
15:0V:113:ARG:HG3	44:LM:196:GLU:OE2	2.02	0.59
4:1C:80:ARG:CG	45:EL:357:PRO:HD2	2.32	0.59
19:1I:80:LYS:HD3	45:JD:279:GLN:OE1	2.01	0.59
20:1J:117:GLU:HA	44:IE:220:GLU:OE2	2.02	0.59
5:2D:38:ILE:HD11	44:DK:84:ARG:HB2	1.84	0.59
26:2R:8:LEU:HD11	45:MJ:361:LEU:HG	1.83	0.59
26:2R:298:TYR:O	45:CH:78:ALA:HA	2.02	0.59
13:2T:147:PHE:CB	45:MJ:402:GLY:HA3	2.30	0.59
26:3R:90:PRO:HD2	44:AK:282:TYR:CE1	2.37	0.59
37:5B:109:ASN:ND2	44:KE:390:ARG:HG2	2.17	0.59
35:5R:12:LEU:HB2	35:5R:15:HIS:CD2	2.37	0.59
35:5R:28:THR:OG1	35:5R:41:LYS:NZ	2.32	0.59
35:5R:285:THR:HG22	35:5R:309:LEU:HB2	1.84	0.59
36:5S:189:VAL:HA	36:5S:192:MET:HG2	1.84	0.59
36:5S:241:ILE:O	36:5S:241:ILE:HG13	2.02	0.59
35:6R:20:HIS:CE1	44:LK:357:TYR:HH	2.21	0.59
35:6R:90:ARG:HH12	44:AM:42:ILE:HD13	1.60	0.59
35:6R:462:ASN:CA	45:FN:218:THR:OG1	2.50	0.59
35:7R:109:GLU:OE2	35:7R:112:ARG:HA	2.03	0.59
44:AA:247:ALA:HB1	45:AD:222:TYR:CE2	2.37	0.59
44:AA:297:GLU:CD	44:AA:299:ALA:H	2.04	0.59
45:AB:113:ILE:HD13	45:AB:150:LEU:CD2	2.32	0.59
44:AC:265:ILE:HG12	44:AC:432:TYR:HE1	1.67	0.59
45:AF:379:LYS:CD	45:AF:419:VAL:HG11	2.32	0.59
44:AG:210:TYR:HE1	44:AG:227:LEU:HD11	1.68	0.59
44:AI:179:THR:HG21	46:AI:501:GTP:H3'	1.83	0.59
44:AK:210:TYR:CD1	45:AL:324:LYS:HE2	2.37	0.59
44:AK:283:HIS:CD2	44:MK:60:LYS:HD2	2.37	0.59
44:AM:51:THR:HG21	44:AM:243:ARG:CB	2.32	0.59
44:AM:93:ILE:HD12	44:AM:93:ILE:H	1.67	0.59
44:AM:181:VAL:HG11	45:AN:256:ASN:O	2.02	0.59
44:AM:265:ILE:HG12	44:AM:432:TYR:CE1	2.37	0.59
44:BA:24:PHE:O	44:BA:28:HIS:ND1	2.32	0.59
45:BD:248:SER:HA	45:BD:252:LYS:CD	2.27	0.59
44:BE:155:GLU:OE1	44:BE:197:HIS:NE2	2.36	0.59
44:BE:175:PRO:HG3	44:BE:390:ARG:HH11	1.67	0.59
44:BI:222:PRO:CG	45:BJ:324:LYS:HD3	2.32	0.59
45:BJ:390:ARG:O	45:BJ:390:ARG:HD2	2.03	0.59
44:BK:53:PHE:CE2	44:BK:63:PRO:HG3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:174:SER:HB3	44:BM:207:GLU:HB2	1.85	0.59
45:BN:318:ARG:HH11	45:BN:358:PRO:CG	2.15	0.59
45:CB:304:ASP:OD1	45:CB:305:PRO:HD2	2.03	0.59
45:CD:309:ARG:CZ	45:CD:342:VAL:HA	2.32	0.59
44:CE:128:ASN:OD1	44:DE:285:GLN:NE2	2.35	0.59
44:CE:276:ILE:CD1	44:CE:281:ALA:HA	2.31	0.59
45:CF:379:LYS:CE	45:CF:419:VAL:HG11	2.32	0.59
44:CG:141:VAL:HG12	44:CG:171:ILE:O	2.02	0.59
44:CI:99:ALA:HB3	44:CI:145:THR:CG2	2.32	0.59
45:CJ:267:MET:HE2	45:CJ:299:MET:HG3	1.85	0.59
44:CK:265:ILE:HD13	44:CK:435:VAL:HG11	1.84	0.59
44:CK:326:LYS:HE3	45:CL:208:TYR:CE1	2.38	0.59
44:CM:243:ARG:HG3	44:CM:244:PHE:CE2	2.37	0.59
44:DC:278:ALA:CA	44:DC:369:ALA:HB2	2.32	0.59
44:DG:26:LEU:HD23	44:DG:26:LEU:O	2.03	0.59
45:DH:116:VAL:O	45:DH:119:VAL:HG12	2.02	0.59
45:DH:150:LEU:O	45:DH:153:SER:N	2.35	0.59
44:DI:434:GLU:O	44:DI:437:ILE:HG12	2.01	0.59
45:DJ:145:SER:O	45:DJ:149:THR:HG23	2.02	0.59
44:DM:219:ILE:HD11	44:DM:367:ASP:OD1	2.02	0.59
45:DN:289:LEU:HD13	45:DN:365:VAL:CG2	2.32	0.59
45:DN:382:ALA:HB1	45:DN:412:GLU:OE2	2.03	0.59
44:EA:274:PRO:HD3	44:EA:291:ILE:HB	1.84	0.59
45:EB:122:LYS:HD2	45:FB:291:GLN:HG2	1.82	0.59
44:EC:316:SER:O	44:EC:377:MET:HA	2.03	0.59
45:ED:180:VAL:C	45:ED:182:PRO:HD2	2.23	0.59
44:EG:9:VAL:CG1	44:EG:139:ASN:HB3	2.33	0.59
45:EJ:240:LEU:HD13	45:EJ:250:LEU:CD2	2.32	0.59
44:EK:88:HIS:CE1	44:EK:90:GLU:HG2	2.38	0.59
44:EK:416:GLY:O	44:EK:419:SER:OG	2.11	0.59
44:FA:13:GLY:HA2	44:FA:16:VAL:CG1	2.32	0.59
44:FA:14:ILE:HD13	44:FA:75:ILE:HG12	1.84	0.59
45:FB:70:PRO:HG3	45:FB:92:PHE:CD1	2.36	0.59
45:FB:200:MET:HE1	45:FB:266:PHE:HB2	1.84	0.59
44:FC:156:ARG:NE	44:FC:156:ARG:HA	2.16	0.59
45:FD:10:GLY:O	45:FD:14:ASN:ND2	2.31	0.59
45:FF:64:ILE:HD13	45:FF:89:ASN:HB3	1.84	0.59
45:FJ:342:VAL:HG13	45:FJ:345:ILE:HG22	1.85	0.59
45:FL:51:TYR:HB3	45:FL:59:TYR:HB3	1.82	0.59
45:FL:341:PHE:CZ	45:FL:349:ILE:HD11	2.37	0.59
44:FM:171:ILE:HG12	44:FM:204:LEU:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:172:TYR:HB3	44:GA:173:PRO:HD2	1.82	0.59
44:GA:311:LYS:HG3	44:GA:312:TYR:N	2.17	0.59
45:GB:11:GLN:OE1	45:GB:72:THR:HB	2.03	0.59
44:GE:121:ARG:O	44:GE:125:LEU:HD23	2.02	0.59
44:GE:189:LEU:HD11	44:GE:418:PHE:CE1	2.36	0.59
45:GF:267:MET:HE1	45:GF:299:MET:HG2	1.85	0.59
45:GF:269:GLY:HA2	45:GF:300:MET:CE	2.32	0.59
45:GF:395:LEU:HG	45:GF:399:THR:HG23	1.83	0.59
44:GG:12:GLY:O	44:GG:16:VAL:HG12	2.02	0.59
44:HA:1:MET:CE	45:HD:94:GLN:HA	2.32	0.59
44:HA:352:LYS:HD2	44:HA:352:LYS:O	2.01	0.59
45:HD:377:MET:O	45:HD:380:ARG:HG2	2.02	0.59
44:HE:26:LEU:HD13	44:HE:364:PRO:HD3	1.83	0.59
44:HE:91:GLN:O	44:HE:93:ILE:HD12	2.02	0.59
44:HE:261:PRO:HG2	44:HE:313:MET:CE	2.32	0.59
45:HF:370:ASN:OD1	45:HF:422:TYR:OH	2.21	0.59
44:HG:141:VAL:HG11	44:HG:187:SER:HA	1.83	0.59
44:HK:229:ARG:NH1	44:HK:229:ARG:HB2	2.17	0.59
44:HK:276:ILE:HD11	44:HK:280:LYS:CE	2.32	0.59
44:HM:240:ALA:HB1	44:HM:356:ASN:ND2	2.18	0.59
44:IA:279:GLU:OE1	44:IA:280:LYS:NZ	2.25	0.59
44:IE:119:LEU:HD21	44:IE:156:ARG:HG2	1.84	0.59
45:IF:86:ARG:HD3	44:JC:284:GLU:HG2	1.84	0.59
45:IH:313:ALA:O	45:IH:349:ILE:HD12	2.02	0.59
44:II:60:LYS:HE2	45:JJ:281:TYR:CD1	2.37	0.59
44:II:208:ALA:O	44:II:212:ILE:HG12	2.02	0.59
45:IJ:285:THR:O	45:IJ:288:GLU:N	2.33	0.59
45:IJ:287:PRO:HD3	45:IJ:325:GLU:OE2	2.03	0.59
44:IK:222:PRO:CG	45:IL:324:LYS:HD3	2.32	0.59
44:IM:22:GLU:OE2	44:IM:22:GLU:N	2.28	0.59
45:IN:178:THR:HB	45:IN:181:GLU:HG2	1.84	0.59
44:JA:169:PHE:CD1	44:JA:202:VAL:HB	2.37	0.59
44:JA:377:MET:CE	44:JA:379:SER:HB3	2.33	0.59
45:JB:136:THR:HG21	45:JB:233:MET:HE2	1.84	0.59
45:JB:310:TYR:HB2	45:JB:341:PHE:CE1	2.38	0.59
45:JD:131:GLN:OE1	45:JD:250:LEU:HD12	2.02	0.59
44:JE:340:THR:HG23	44:JE:341:ILE:HG12	1.84	0.59
45:JF:299:MET:SD	45:JF:305:PRO:HG3	2.42	0.59
44:JG:13:GLY:O	44:JG:16:VAL:HG12	2.02	0.59
44:JG:203:MET:HA	44:JG:203:MET:HE3	1.85	0.59
44:JG:269:LEU:HD13	44:JG:301:MET:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JI:88:HIS:HB3	44:JI:91:GLN:HB2	1.85	0.59
44:JK:189:LEU:HD11	44:JK:418:PHE:CE1	2.33	0.59
45:JN:113:ILE:CA	45:JN:116:VAL:HG12	2.31	0.59
45:KB:135:ILE:O	45:KB:166:THR:HA	2.01	0.59
45:KB:207:LEU:HD12	45:KB:225:LEU:CD2	2.32	0.59
44:KE:260:VAL:HG22	44:KE:262:TYR:O	2.03	0.59
44:KE:271:SER:HB2	44:KE:377:MET:CG	2.33	0.59
44:KI:272:TYR:HD1	44:KI:275:ILE:HD11	1.68	0.59
45:KJ:3:GLU:HG3	45:KJ:62:ARG:NH1	2.17	0.59
44:KK:98:ASP:OD1	44:KK:99:ALA:N	2.35	0.59
45:KL:162:ARG:NE	45:KL:162:ARG:HA	2.17	0.59
44:KM:34:GLY:HA3	44:KM:60:LYS:HE3	1.83	0.59
44:KM:53:PHE:CE1	44:KM:63:PRO:HG3	2.37	0.59
44:KM:166:LYS:C	44:KM:167:LEU:HD12	2.22	0.59
44:LA:73:THR:CG2	45:LB:243:PRO:HA	2.32	0.59
44:LA:93:ILE:CG2	44:LA:117:LEU:HD23	2.32	0.59
44:LA:103:PHE:O	44:LA:107:HIS:N	2.36	0.59
44:LA:328:VAL:HG11	44:LA:353:VAL:CG1	2.32	0.59
45:LB:5:VAL:HG12	45:LB:62:ARG:HD3	1.85	0.59
44:LC:174:SER:HB3	44:LC:175:PRO:HD3	1.84	0.59
45:LF:135:ILE:HB	45:LF:166:THR:HA	1.85	0.59
45:LF:178:THR:HG22	45:LF:180:VAL:HG12	1.85	0.59
45:LF:201:VAL:HG12	45:LF:266:PHE:O	2.01	0.59
45:LJ:67:ASP:OD2	45:LJ:72:THR:OG1	2.20	0.59
45:LJ:234:SER:O	45:LJ:238:CYS:HB3	2.01	0.59
45:LJ:272:PRO:O	45:LJ:273:LEU:HD23	2.01	0.59
45:LL:32:PRO:HG3	45:LL:81:PHE:CZ	2.37	0.59
45:LL:290:THR:HG21	45:LL:329:GLN:CG	2.32	0.59
44:LM:413:MET:CG	44:LM:417:GLU:HG3	2.32	0.59
45:LN:184:ASN:OD1	45:LN:398:TYR:OH	2.21	0.59
45:LN:267:MET:HE1	45:LN:301:CYS:HB3	1.83	0.59
45:MD:101:TRP:CE3	45:MD:187:LEU:HD13	2.37	0.59
44:ME:205:ASP:CG	44:ME:304:LYS:H	2.05	0.59
45:MH:72:THR:HG23	45:MH:73:MET:CG	2.32	0.59
45:MH:193:VAL:HA	45:MH:264:HIS:HE1	1.66	0.59
45:MJ:3:GLU:CB	45:MJ:49:VAL:HA	2.32	0.59
44:MK:195:LEU:HD12	44:MK:266:HIS:NE2	2.16	0.59
45:ML:91:VAL:CG2	45:ML:116:VAL:HG22	2.31	0.59
44:MM:407:TRP:HZ3	45:MN:255:VAL:HG22	1.67	0.59
44:NA:13:GLY:HA2	44:NA:16:VAL:CG1	2.32	0.59
44:NA:186:ASN:OD1	44:NA:187:SER:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:325:PRO:O	44:NA:328:VAL:HG12	2.03	0.59
44:NA:409:VAL:O	44:NA:412:GLY:N	2.32	0.59
45:NB:138:SER:O	45:NB:139:LEU:HD23	2.02	0.59
45:NB:156:ARG:HD2	45:NB:164:MET:CE	2.31	0.59
45:NB:391:ARG:HH11	45:NB:393:ALA:HA	1.67	0.59
45:ND:68:LEU:CD1	45:ND:93:GLY:HA3	2.32	0.59
45:ND:166:THR:HG22	45:ND:198:GLU:O	2.03	0.59
45:ND:231:ALA:HB1	45:ND:270:PHE:CE1	2.37	0.59
45:ND:237:THR:O	45:ND:237:THR:HG22	2.03	0.59
45:NF:12:CYS:O	45:NF:16:ILE:HG23	2.02	0.59
45:NF:100:ASN:HB3	45:NF:103:LYS:CB	2.32	0.59
44:NG:77:GLU:HA	44:NG:80:THR:HG22	1.84	0.59
44:NG:91:GLN:HE21	44:NG:121:ARG:NH2	1.99	0.59
44:NG:258:ASN:C	44:NG:259:LEU:HD12	2.23	0.59
44:NI:247:ALA:HB1	45:NL:222:TYR:CD2	2.38	0.59
44:NI:282:TYR:CZ	44:NI:284:GLU:HA	2.36	0.59
44:NK:132:LEU:H	44:NK:132:LEU:HD12	1.68	0.59
44:NK:291:ILE:HG13	44:NK:292:THR:N	2.18	0.59
44:NM:407:TRP:CZ3	45:NN:255:VAL:HG22	2.37	0.59
44:NM:431:ASP:O	44:NM:435:VAL:HG23	2.03	0.59
45:NN:86:ARG:HE	45:NN:87:PRO:CD	2.14	0.59
44:OA:62:VAL:HG13	44:OA:63:PRO:C	2.23	0.59
44:OA:210:TYR:CE1	45:OB:324:LYS:HB2	2.37	0.59
45:OB:105:HIS:HD2	45:OB:146:GLY:O	1.85	0.59
45:OB:229:VAL:HA	45:OB:232:ALA:HB3	1.84	0.59
44:OC:267:PHE:HD1	44:OC:432:TYR:HH	1.49	0.59
45:OD:242:PHE:HB3	45:OD:243:PRO:HD2	1.85	0.59
44:OE:23:LEU:HD23	44:OE:232:ALA:O	2.03	0.59
45:OF:64:ILE:HD11	45:OF:123:GLU:HG3	1.85	0.59
44:OG:71:GLU:OE1	44:OG:73:THR:OG1	2.18	0.59
45:OH:262:ARG:O	45:OH:263:LEU:HD12	2.02	0.59
44:PA:8:HIS:HD2	44:PA:138:PHE:HB2	1.64	0.59
44:PA:346:TRP:O	45:PD:388:MET:HG2	2.02	0.59
44:PC:320:ARG:HE	44:PC:360:PRO:HD3	1.66	0.59
44:PC:377:MET:O	44:PC:378:ILE:HD13	2.02	0.59
45:PD:201:VAL:HG23	45:PD:301:CYS:SG	2.43	0.59
45:PD:304:ASP:OD1	45:PD:305:PRO:HD2	2.01	0.59
44:PE:7:ILE:HA	44:PE:66:VAL:HG13	1.83	0.59
44:PE:276:ILE:CD1	44:PE:281:ALA:HA	2.31	0.59
44:PE:326:LYS:CG	45:PH:220:PRO:HG2	2.33	0.59
45:PF:407:GLU:O	45:PF:410:GLU:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PI:107:HIS:HB3	44:PI:108:TYR:CD1	2.37	0.59
44:PI:204:LEU:HD13	44:PI:231:ILE:HD13	1.84	0.59
45:PL:257:LEU:HD11	45:PL:314:SER:HB2	1.85	0.59
44:PM:145:THR:HG22	46:PM:501:GTP:O3G	2.02	0.59
44:PM:210:TYR:O	44:PM:214:ARG:N	2.35	0.59
45:PN:178:THR:H	45:PN:181:GLU:CD	2.06	0.59
44:QA:320:ARG:HH11	44:QA:374:ALA:CB	2.16	0.59
45:QD:316:LEU:HB2	45:QD:366:THR:HG23	1.84	0.59
44:QE:145:THR:HG22	46:QE:501:GTP:O3B	2.02	0.59
45:QF:4:ILE:HG22	45:QF:131:GLN:CG	2.31	0.59
44:QG:340:THR:O	44:QG:341:ILE:HD13	2.02	0.59
44:QI:84:ARG:HG3	44:QI:85:GLN:OE1	2.02	0.59
44:QI:111:GLY:HA2	44:QI:149:LEU:HD11	1.84	0.59
45:QJ:34:GLY:O	45:QJ:58:ARG:HA	2.02	0.59
44:QK:80:THR:HA	44:QK:84:ARG:HD2	1.84	0.59
45:QL:217:LEU:HD11	45:QL:220:PRO:HA	1.85	0.59
45:QL:345:ILE:HG23	45:QL:348:ASN:ND2	2.17	0.59
45:QN:16:ILE:HD13	45:QN:226:ASN:OD1	2.03	0.59
44:RA:51:THR:CB	44:RA:243:ARG:HD3	2.33	0.59
44:RA:71:GLU:OE1	44:RA:73:THR:HB	2.01	0.59
45:RD:341:PHE:HD2	45:RD:348:ASN:HD21	1.49	0.59
44:RG:169:PHE:CD1	44:RG:202:VAL:HG21	2.37	0.59
44:RG:324:VAL:HG23	44:RG:326:LYS:HG3	1.85	0.59
44:RG:434:GLU:O	44:RG:437:ILE:HG12	2.03	0.59
45:RJ:12:CYS:N	48:RJ:501:GDP:O1A	2.36	0.59
44:RK:170:THR:O	44:RK:204:LEU:HB3	2.02	0.59
44:RK:287:SER:O	44:RK:291:ILE:HG23	2.03	0.59
45:RL:347:ASN:HB3	44:RM:178:SER:OG	2.03	0.59
44:RM:213:CYS:O	44:RM:217:LEU:N	2.36	0.59
45:RN:112:LEU:CD2	45:RN:116:VAL:HB	2.31	0.59
44:SA:248:LEU:HB3	44:SA:355:ILE:H	1.68	0.59
44:SC:255:PHE:O	44:SC:259:LEU:N	2.36	0.59
44:SE:76:ASP:O	44:SE:79:ARG:HG2	2.03	0.59
44:SE:174:SER:CB	44:SE:207:GLU:HB2	2.32	0.59
45:SF:69:GLU:OE2	45:SF:72:THR:HG23	2.02	0.59
44:SG:91:GLN:O	44:SG:93:ILE:HD12	2.01	0.59
45:SH:54:ALA:HB3	45:SH:58:ARG:HG2	1.84	0.59
45:SH:252:LYS:HG2	45:SH:350:LYS:HZ3	1.66	0.59
45:SH:320:ARG:CD	45:SH:355:ASP:HB3	2.32	0.59
44:SI:3:GLU:O	44:SI:133:GLN:HG2	2.02	0.59
44:SI:246:GLY:HA3	44:SI:249:ASN:OD1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:28:HIS:HB3	45:SJ:47:ILE:HD11	1.84	0.59
45:SJ:32:PRO:HG3	45:SJ:81:PHE:CZ	2.37	0.59
45:SJ:256:ASN:ND2	45:SJ:350:LYS:HD2	2.17	0.59
45:SL:271:ALA:HB1	45:SL:272:PRO:HA	1.84	0.59
45:SL:381:VAL:HB	45:SL:415:MET:HE1	1.83	0.59
44:TA:274:PRO:HD2	44:TA:374:ALA:HB2	1.83	0.59
44:TC:268:MET:HB2	44:TC:379:SER:O	2.02	0.59
45:TD:133:PHE:HB3	45:TD:135:ILE:HD11	1.83	0.59
45:TD:144:GLY:O	45:TD:148:GLY:N	2.34	0.59
44:TE:184:PRO:HG2	44:TE:398:MET:CE	2.32	0.59
44:TE:258:ASN:ND2	44:TE:352:LYS:HD3	2.18	0.59
45:TF:238:CYS:HB2	45:TF:318:ARG:CZ	2.32	0.59
45:TH:251:ARG:HB3	44:TI:100:ALA:HB2	1.84	0.59
44:TI:172:TYR:HB3	44:TI:173:PRO:HD2	1.84	0.59
45:TJ:162:ARG:HG3	45:TJ:163:ILE:H	1.68	0.59
44:TK:88:HIS:CG	44:TK:89:PRO:HD2	2.38	0.59
44:TM:25:CYS:HB3	44:TM:30:ILE:HB	1.83	0.59
45:TN:254:ALA:CA	45:TN:258:ILE:HD13	2.29	0.59
45:TN:272:PRO:HD3	45:TN:364:ALA:HA	1.84	0.59
45:TN:421:GLU:HA	45:TN:424:GLN:HB3	1.84	0.59
44:UA:242:LEU:HD11	44:UA:252:ILE:HD11	1.84	0.59
45:UD:267:MET:CE	45:UD:301:CYS:HB2	2.32	0.59
45:UD:285:THR:H	45:UD:288:GLU:HB2	1.68	0.59
45:UF:255:VAL:HG11	44:UG:100:ALA:O	2.02	0.59
45:UF:261:PRO:HD3	44:UG:406:HIS:CE1	2.38	0.59
44:UG:144:GLY:N	46:UG:501:GTP:O2G	2.35	0.59
45:UH:306:ARG:O	45:UH:306:ARG:HG2	2.03	0.59
44:UI:326:LYS:CD	45:UJ:220:PRO:HD2	2.32	0.59
45:UJ:3:GLU:CD	45:UJ:127:CYS:HB2	2.23	0.59
45:UJ:7:ILE:HG23	45:UJ:66:MET:CE	2.32	0.59
45:UJ:242:PHE:HB3	45:UJ:356:ILE:HG13	1.83	0.59
44:UK:69:ASP:OD1	44:UK:70:LEU:N	2.35	0.59
44:UK:112:LYS:HG3	44:UK:113:GLU:HG3	1.84	0.59
44:UM:69:ASP:OD1	44:UM:70:LEU:N	2.35	0.59
44:UM:346:TRP:CE3	44:UM:347:CYS:HB2	2.38	0.59
45:UN:296:ALA:HA	45:UN:299:MET:CE	2.32	0.59
45:VB:326:VAL:O	45:VB:330:MET:HG2	2.03	0.59
44:VC:138:PHE:CE1	44:VC:169:PHE:HB2	2.37	0.59
45:VD:318:ARG:NH1	45:VD:358:PRO:HB3	2.18	0.59
45:VD:396:HIS:O	45:VD:400:GLY:N	2.35	0.59
45:VF:134:GLN:HA	45:VF:165:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:291:GLN:NE2	45:VF:292:GLN:HG3	2.16	0.59
44:VG:230:LEU:CD1	44:VG:275:ILE:HD13	2.32	0.59
44:VI:340:THR:O	44:VI:341:ILE:HD13	2.03	0.59
44:VK:63:PRO:HG2	44:VK:87:PHE:CA	2.32	0.59
44:VK:313:MET:HG2	44:VK:346:TRP:CZ2	2.38	0.59
45:VL:411:ALA:O	45:VL:415:MET:N	2.27	0.59
44:WA:10:GLY:O	44:WA:14:ILE:HG12	2.02	0.59
44:WA:152:LEU:HD12	44:WA:155:GLU:CB	2.31	0.59
44:WA:231:ILE:O	44:WA:235:ILE:N	2.34	0.59
45:WB:22:GLU:CD	45:WB:80:PRO:HB2	2.23	0.59
44:WE:4:VAL:HG23	44:WE:134:GLY:O	2.03	0.59
44:WE:93:ILE:HD12	44:WE:93:ILE:H	1.67	0.59
44:WG:38:SER:O	44:WG:42:ILE:HG13	2.03	0.59
44:WG:66:VAL:O	44:WG:66:VAL:HG13	2.02	0.59
45:WN:268:ILE:HA	45:WN:367:PHE:O	2.03	0.59
3:0B:61:ARG:HG3	45:JH:78:ALA:HB3	1.83	0.59
7:0F:141:ILE:CD1	44:GC:280:LYS:HD3	2.33	0.59
7:0F:204:PHE:CB	44:FC:221:ARG:HG2	2.30	0.59
8:0G:119:ILE:HG12	44:JM:221:ARG:NH2	2.11	0.59
18:1F:123:TYR:CD2	44:GI:18:ASN:HB3	2.38	0.59
26:1R:464:LEU:HA	45:ED:78:ALA:O	2.02	0.59
27:1W:195:TRP:HH2	44:LA:322:ASP:HB2	1.65	0.59
32:2I:82:VAL:HB	44:FE:120:ASP:OD2	2.02	0.59
22:2L:820:THR:HG21	35:5R:103:VAL:O	2.02	0.59
26:2R:252:LEU:HB3	44:CG:370:LYS:NZ	2.15	0.59
26:2R:394:TYR:OH	45:DH:87:PRO:HB2	2.02	0.59
32:3I:220:LYS:HD2	45:GL:336:LYS:HD2	1.83	0.59
37:5D:27:LYS:HE2	45:KN:392:LYS:HD3	1.82	0.59
37:5D:52:VAL:CA	44:KK:437:ILE:HD12	2.32	0.59
38:5F:113:LEU:CD1	38:5F:114:PRO:HD2	2.32	0.59
38:5G:198:PHE:O	44:LK:393:HIS:ND1	2.35	0.59
38:5H:31:SER:HB2	38:5H:35:LEU:CD1	2.31	0.59
35:5R:131:GLU:HG3	35:5R:141:GLN:NE2	2.15	0.59
41:6G:214:LEU:CD1	44:VC:330:ALA:HA	2.32	0.59
35:7R:544:SER:HB3	35:7R:547:GLU:CB	2.33	0.59
44:AC:183:GLU:HG2	44:AC:184:PRO:HD3	1.85	0.59
45:AD:36:TYR:CD1	45:AD:44:LEU:HD21	2.38	0.59
44:AE:71:GLU:OE1	44:AE:73:THR:HB	2.03	0.59
44:AE:222:PRO:HG2	45:AF:324:LYS:HD3	1.84	0.59
45:AF:372:THR:HA	45:AF:422:TYR:HE1	1.66	0.59
44:AG:238:LEU:HD12	44:AG:378:ILE:CD1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:14:ILE:HD11	44:AI:69:ASP:HB2	1.83	0.59
44:AI:101:ASN:OD1	45:AJ:252:LYS:HG3	2.02	0.59
44:AI:121:ARG:HH12	44:AI:124:LYS:HD2	1.67	0.59
45:AJ:207:LEU:HB3	45:AJ:225:LEU:HD21	1.85	0.59
45:AJ:263:LEU:HG	45:AJ:422:TYR:CD1	2.37	0.59
44:AK:183:GLU:HG2	44:AK:184:PRO:HD3	1.83	0.59
45:AL:8:GLN:OE1	45:AL:17:GLY:HA3	2.03	0.59
45:AL:143:THR:HG22	48:AL:502:GDP:O2B	2.02	0.59
45:AN:1:MET:HE3	45:AN:129:CYS:HB3	1.84	0.59
44:BA:222:PRO:CG	45:BB:324:LYS:CD	2.79	0.59
44:BC:32:PRO:HB3	44:BC:83:TYR:CE1	2.38	0.59
44:BC:291:ILE:HG13	44:BC:292:THR:N	2.18	0.59
44:BG:433:GLU:O	44:BG:437:ILE:HG23	2.02	0.59
45:BL:101:TRP:NE1	45:BL:146:GLY:HA2	2.17	0.59
44:BM:36:MET:HB2	44:BM:61:HIS:HE1	1.67	0.59
44:BM:275:ILE:HG23	44:BM:368:LEU:HD11	1.84	0.59
45:BN:184:ASN:OD1	45:BN:185:ALA:N	2.36	0.59
45:BN:316:LEU:HD23	45:BN:352:SER:CB	2.29	0.59
44:CA:88:HIS:CD2	44:DA:280:LYS:HE3	2.38	0.59
44:CA:258:ASN:HD22	44:CA:352:LYS:HD3	1.67	0.59
44:CA:315:CYS:N	44:CA:350:GLY:O	2.34	0.59
44:CC:55:GLU:HG3	44:CC:57:GLY:H	1.66	0.59
44:CC:135:PHE:CE2	44:CC:157:LEU:HD22	2.38	0.59
45:CD:6:HIS:HA	45:CD:134:GLN:NE2	2.14	0.59
45:CD:165:GLU:OE2	45:CD:250:LEU:HD22	2.01	0.59
45:CH:152:ILE:HG23	45:CH:164:MET:HE1	1.83	0.59
44:CI:269:LEU:HD23	44:CI:269:LEU:H	1.68	0.59
45:CL:217:LEU:HD11	45:CL:220:PRO:HA	1.84	0.59
45:CL:311:LEU:HD11	45:CL:370:ASN:ND2	2.17	0.59
44:CM:9:VAL:HG21	44:CM:149:LEU:HB2	1.83	0.59
44:CM:90:GLU:HG3	44:CM:121:ARG:CZ	2.33	0.59
45:CN:8:GLN:NE2	45:CN:65:LEU:HG	2.17	0.59
45:CN:310:TYR:CE1	45:CN:371:SER:HB2	2.37	0.59
44:DA:228:ASN:HD22	44:DA:231:ILE:HD12	1.68	0.59
44:DA:244:PHE:CD1	44:DA:358:GLN:HG2	2.37	0.59
45:DB:47:ILE:HG12	45:DB:51:TYR:HB2	1.83	0.59
45:DB:254:ALA:HB1	45:DB:258:ILE:HD13	1.84	0.59
44:DC:237:SER:OG	44:DC:320:ARG:NH1	2.29	0.59
45:DD:259:PRO:HA	44:DE:404:PHE:CD1	2.38	0.59
45:DD:398:TYR:O	45:DD:403:MET:HB2	2.03	0.59
44:DE:212:ILE:CD1	44:DE:300:ASN:HA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:141:VAL:HG12	44:DG:171:ILE:O	2.03	0.59
45:DH:331:LEU:HD13	44:DI:176:GLN:O	2.03	0.59
44:DK:201:ALA:O	44:DK:268:MET:HB2	2.02	0.59
45:DL:283:ALA:O	45:DL:288:GLU:HG3	2.02	0.59
45:DN:334:GLN:HG3	45:DN:341:PHE:CD2	2.38	0.59
45:EB:139:LEU:HD23	45:EB:185:ALA:CA	2.32	0.59
45:EB:309:ARG:HB3	45:EB:341:PHE:C	2.21	0.59
45:ED:249:ASP:OD1	45:ED:252:LYS:N	2.32	0.59
44:EE:192:HIS:ND1	44:EE:424:ASP:OD2	2.31	0.59
44:EE:230:LEU:CD1	44:EE:368:LEU:HD21	2.23	0.59
45:EF:3:GLU:HG3	45:EF:62:ARG:HH12	1.68	0.59
45:EF:317:PHE:CA	45:EF:365:VAL:HG12	2.23	0.59
44:EG:147:SER:O	44:EG:151:SER:N	2.36	0.59
44:EG:268:MET:HB2	44:EG:379:SER:O	2.02	0.59
44:EK:103:PHE:HD1	44:EK:147:SER:HB2	1.68	0.59
44:EK:387:VAL:O	44:EK:391:LEU:HD13	2.02	0.59
44:EM:306:ASP:OD1	44:EM:308:ARG:N	2.35	0.59
45:EN:77:ARG:HG2	45:EN:83:GLN:NE2	2.13	0.59
45:EN:418:LEU:HA	45:EN:421:GLU:OE1	2.02	0.59
45:FB:70:PRO:HD3	45:FB:93:GLY:O	2.01	0.59
45:FB:403:MET:HG3	45:FB:407:GLU:OE2	2.02	0.59
44:FC:161:TYR:O	44:FC:164:LYS:HG2	2.02	0.59
44:FE:204:LEU:HD11	44:FE:302:MET:HE1	1.83	0.59
45:FF:52:ASN:HB2	45:FF:62:ARG:NH2	2.17	0.59
45:FF:130:LEU:HD21	45:FF:133:PHE:CE1	2.37	0.59
45:FF:182:PRO:HG2	45:FF:388:MET:HE1	1.85	0.59
44:FG:202:VAL:HG11	44:FG:270:SER:OG	2.02	0.59
45:FH:200:MET:SD	45:FH:266:PHE:HB2	2.43	0.59
44:FI:188:ILE:HG13	44:FI:425:LEU:HD12	1.85	0.59
45:FJ:20:PHE:HB2	45:FJ:233:MET:HE3	1.84	0.59
44:FK:102:ASN:ND2	44:FK:105:ARG:HG3	2.18	0.59
44:FK:296:PHE:CE2	44:FK:335:ILE:HG21	2.37	0.59
45:FL:114:ASP:O	45:FL:117:LEU:HB3	2.02	0.59
45:FL:285:THR:O	45:FL:289:LEU:HG	2.02	0.59
45:FN:289:LEU:HD22	45:FN:365:VAL:CG2	2.22	0.59
44:GA:404:PHE:CE1	45:GB:345:ILE:HD12	2.38	0.59
44:GC:104:ALA:CB	44:GC:411:GLU:HB3	2.33	0.59
44:GG:16:VAL:HA	44:GG:228:ASN:OD1	2.03	0.59
44:GG:265:ILE:HG23	44:GG:265:ILE:O	2.02	0.59
45:GH:42:LEU:O	45:GH:45:GLU:HG3	2.02	0.59
45:GH:246:LEU:HG	45:GH:246:LEU:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:324:LYS:O	45:GH:328:GLU:HG2	2.03	0.59
45:GL:398:TYR:O	45:GL:403:MET:HB2	2.02	0.59
45:GN:309:ARG:N	45:GN:372:THR:HG1	2.01	0.59
45:HB:27:GLU:OE2	45:HB:241:ARG:NH1	2.23	0.59
44:HC:313:MET:HE1	44:HC:435:VAL:HG11	1.84	0.59
45:HD:21:TRP:CZ3	45:HD:61:PRO:HB3	2.37	0.59
45:HF:206:ALA:O	45:HF:210:ILE:N	2.28	0.59
45:HF:313:ALA:HB1	45:HF:367:PHE:CE1	2.37	0.59
44:HG:209:ILE:HG12	44:HG:302:MET:HE3	1.83	0.59
44:HG:287:SER:O	44:HG:291:ILE:HG23	2.03	0.59
45:HH:105:HIS:CE1	45:HH:150:LEU:HD12	2.36	0.59
45:HH:309:ARG:NH1	45:HH:341:PHE:O	2.36	0.59
44:HI:254:GLU:HG3	45:HL:98:GLY:CA	2.30	0.59
44:HK:274:PRO:HD3	44:HK:374:ALA:HA	1.84	0.59
45:HL:117:LEU:CG	45:HL:121:ARG:HH12	2.11	0.59
45:HL:151:LEU:O	45:HL:155:VAL:HG13	2.03	0.59
45:HL:202:ILE:HG23	45:HL:300:MET:HB3	1.84	0.59
45:HL:233:MET:O	45:HL:236:VAL:HG12	2.02	0.59
44:HM:9:VAL:HG22	44:HM:146:GLY:HA2	1.83	0.59
44:HM:242:LEU:HD13	44:HM:251:ASP:HA	1.83	0.59
44:HM:260:VAL:HG12	44:HM:262:TYR:O	2.03	0.59
45:HN:345:ILE:O	45:HN:345:ILE:HG23	2.02	0.59
45:IB:372:THR:HG21	45:IB:426:GLN:HB2	1.85	0.59
44:IC:254:GLU:HG2	45:IF:98:GLY:HA2	1.85	0.59
44:IC:279:GLU:OE1	44:IC:280:LYS:HB3	2.02	0.59
45:ID:376:GLU:O	45:ID:380:ARG:HG2	2.03	0.59
44:IG:70:LEU:HD11	44:IG:149:LEU:CD2	2.33	0.59
44:IG:104:ALA:CB	44:IG:411:GLU:HB2	2.32	0.59
44:IG:407:TRP:CZ3	45:IH:255:VAL:HG22	2.38	0.59
45:IH:151:LEU:O	45:IH:155:VAL:HG23	2.02	0.59
44:II:356:ASN:OD1	44:II:357:TYR:N	2.33	0.59
45:IJ:260:PHE:HB3	45:IJ:261:PRO:HD2	1.85	0.59
45:IJ:316:LEU:CD2	45:IJ:352:SER:HB2	2.32	0.59
45:IL:262:ARG:HH11	45:IL:262:ARG:HG2	1.67	0.59
45:IL:335:ASN:HA	45:IL:338:SER:OG	2.02	0.59
45:IN:27:GLU:OE2	45:IN:241:ARG:NH2	2.32	0.59
45:IN:268:ILE:O	45:IN:300:MET:HE2	2.02	0.59
45:JB:99:ASN:HA	45:JB:142:GLY:CA	2.32	0.59
45:JB:285:THR:O	45:JB:289:LEU:HG	2.02	0.59
45:JB:309:ARG:HD2	45:JB:341:PHE:C	2.22	0.59
45:JD:2:ARG:CZ	45:JD:240:LEU:HG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:395:LEU:HG	45:JD:399:THR:HG23	1.84	0.59
44:JE:36:MET:CE	44:JE:37:PRO:HD2	2.33	0.59
45:JF:210:ILE:HG22	45:JF:215:LEU:CG	2.28	0.59
45:JF:210:ILE:HD13	45:JF:273:LEU:CD1	2.29	0.59
45:JF:325:GLU:HA	45:JF:328:GLU:HG2	1.83	0.59
45:JJ:32:PRO:HG3	45:JJ:81:PHE:CZ	2.37	0.59
45:JJ:207:LEU:HD13	45:JJ:225:LEU:HB3	1.84	0.59
44:JK:3:GLU:HB2	44:JK:129:CYS:SG	2.42	0.59
44:JK:3:GLU:HG3	44:JK:50:ASN:O	2.02	0.59
45:JL:67:ASP:OD2	45:JL:72:THR:HG21	2.01	0.59
45:JL:213:ARG:HG3	45:JL:213:ARG:HH11	1.67	0.59
45:JL:318:ARG:HG3	45:JL:357:PRO:HA	1.84	0.59
45:JN:5:VAL:HG22	45:JN:6:HIS:H	1.66	0.59
45:JN:45:GLU:O	45:JN:46:ARG:HD2	2.02	0.59
45:JN:370:ASN:OD1	45:JN:422:TYR:OH	2.18	0.59
44:KA:138:PHE:HE1	44:KA:169:PHE:HD2	1.49	0.59
45:KD:105:HIS:O	45:KD:150:LEU:HD11	2.02	0.59
44:KE:88:HIS:HD2	44:LE:283:HIS:HB2	1.68	0.59
45:KH:10:GLY:HA2	45:KH:143:THR:HG23	1.83	0.59
45:KH:77:ARG:O	45:KH:77:ARG:HG2	2.02	0.59
44:KI:215:ARG:NH2	44:KI:216:ASN:HB3	2.18	0.59
44:KK:285:GLN:HG3	44:KK:290:GLU:OE2	2.02	0.59
44:KM:272:TYR:HA	44:KM:376:CYS:HA	1.83	0.59
44:KM:311:LYS:HD2	44:KM:343:PHE:O	2.02	0.59
45:LB:274:THR:HG23	45:LB:282:ARG:HH11	1.68	0.59
45:LB:295:ASP:CG	45:LB:297:LYS:HG2	2.23	0.59
45:LD:86:ARG:HA	45:MD:281:TYR:HD2	1.66	0.59
44:LE:268:MET:HB2	44:LE:379:SER:O	2.02	0.59
45:LF:2:ARG:NH2	45:LF:240:LEU:O	2.36	0.59
45:LF:132:GLY:HA3	45:LF:163:ILE:HG22	1.84	0.59
45:LL:21:TRP:CZ3	45:LL:61:PRO:HB3	2.38	0.59
45:MB:273:LEU:H	45:MB:292:GLN:HE22	1.50	0.59
44:ME:172:TYR:OH	44:ME:191:THR:HA	2.02	0.59
44:ME:176:GLN:NE2	44:ME:207:GLU:OE2	2.35	0.59
44:ME:188:ILE:HG21	44:ME:395:PHE:CD1	2.38	0.59
45:MF:12:CYS:CB	45:MF:138:SER:HB2	2.32	0.59
45:MF:256:ASN:C	45:MF:257:LEU:HD12	2.21	0.59
45:MJ:116:VAL:O	45:MJ:119:VAL:HG12	2.02	0.59
45:MJ:258:ILE:HG13	45:MJ:258:ILE:O	2.03	0.59
45:MJ:309:ARG:NH2	45:MJ:426:GLN:O	2.32	0.59
44:MK:101:ASN:HA	44:MK:144:GLY:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:12:CYS:HB3	45:ML:138:SER:CB	2.32	0.59
45:ML:324:LYS:O	45:ML:328:GLU:HG2	2.02	0.59
44:NA:326:LYS:CB	45:ND:220:PRO:HD2	2.32	0.59
45:NB:132:GLY:HA3	45:NB:163:ILE:CG2	2.31	0.59
44:NC:292:THR:HG21	44:NC:331:SER:HB3	1.83	0.59
45:ND:294:PHE:CD2	45:ND:333:VAL:HG11	2.37	0.59
45:NF:7:ILE:HD12	45:NF:64:ILE:HB	1.84	0.59
45:NF:242:PHE:HB3	45:NF:356:ILE:HD13	1.84	0.59
44:NG:2:ARG:HD2	44:NG:242:LEU:O	2.02	0.59
44:NI:3:GLU:HG2	44:NI:64:ARG:HH21	1.67	0.59
45:NJ:324:LYS:NZ	45:NJ:328:GLU:OE1	2.34	0.59
44:NK:174:SER:CB	44:NK:207:GLU:HG3	2.31	0.59
44:NK:203:MET:HG3	44:NK:384:ILE:HD11	1.83	0.59
44:NK:240:ALA:HB1	44:NK:356:ASN:HD22	1.67	0.59
45:NL:304:ASP:OD1	45:NL:305:PRO:HD2	2.02	0.59
44:NM:101:ASN:CA	44:NM:144:GLY:H	2.14	0.59
44:NM:288:VAL:N	44:NM:373:ARG:HH21	1.99	0.59
44:OA:141:VAL:HG21	44:OA:187:SER:HA	1.82	0.59
44:OC:169:PHE:CE2	44:OC:202:VAL:HG21	2.38	0.59
45:OD:85:PHE:HB2	45:OD:90:PHE:CZ	2.37	0.59
44:OK:258:ASN:ND2	44:OK:352:LYS:HE2	2.17	0.59
45:ON:2:ARG:HG3	45:ON:2:ARG:O	2.02	0.59
44:PA:210:TYR:CD1	45:PB:324:LYS:HD3	2.37	0.59
45:PD:50:TYR:HD2	45:PD:241:ARG:HD3	1.67	0.59
45:PD:257:LEU:HD21	45:PD:368:VAL:HG11	1.85	0.59
44:PE:170:THR:O	44:PE:204:LEU:HD12	2.03	0.59
44:PG:5:ILE:HD12	44:PG:135:PHE:HE1	1.67	0.59
44:PG:363:VAL:CG2	44:PG:364:PRO:HD2	2.32	0.59
44:PI:34:GLY:O	44:PI:60:LYS:HA	2.02	0.59
45:PJ:119:VAL:HA	45:PJ:122:LYS:NZ	2.17	0.59
45:PJ:166:THR:OG1	45:PJ:199:CYS:HA	2.03	0.59
45:PJ:248:SER:CA	45:PJ:252:LYS:HD2	2.32	0.59
45:PJ:248:SER:CB	45:PJ:252:LYS:HD2	2.31	0.59
44:PK:222:PRO:HG2	45:PL:324:LYS:HD3	1.85	0.59
44:PK:288:VAL:HB	44:PK:373:ARG:HE	1.68	0.59
44:QA:34:GLY:CA	44:QA:86:LEU:HD11	2.32	0.59
44:QA:205:ASP:OD1	44:QA:303:ALA:HA	2.02	0.59
45:QB:114:ASP:OD1	45:QB:115:SER:N	2.34	0.59
45:QB:222:TYR:O	45:QB:226:ASN:N	2.31	0.59
44:QC:143:GLY:HA3	46:QC:501:GTP:O3A	2.01	0.59
45:QD:327:ASP:HB3	44:QE:177:VAL:CG1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:86:ARG:NE	45:QF:87:PRO:HD2	2.18	0.59
45:QF:255:VAL:HG22	44:QG:102:ASN:HD21	1.68	0.59
44:QI:276:ILE:HD13	44:QI:281:ALA:HA	1.84	0.59
45:QJ:355:ASP:O	45:QJ:356:ILE:HD13	2.02	0.59
45:QL:175:VAL:CG2	45:QL:204:ASN:HB2	2.33	0.59
44:QM:91:GLN:HA	44:QM:121:ARG:NH1	2.04	0.59
45:QN:30:ILE:HD13	45:QN:36:TYR:HA	1.83	0.59
45:QN:135:ILE:HG13	45:QN:166:THR:HG22	1.85	0.59
45:RB:323:THR:O	45:RB:326:VAL:N	2.35	0.59
45:RF:203:ASP:O	45:RF:207:LEU:HG	2.02	0.59
44:RG:102:ASN:HB3	44:RG:105:ARG:HG3	1.84	0.59
44:RG:270:SER:O	44:RG:302:MET:HB3	2.02	0.59
44:RI:14:ILE:O	44:RI:17:GLY:N	2.35	0.59
45:RJ:46:ARG:O	45:RJ:49:VAL:HG23	2.02	0.59
45:RJ:150:LEU:HD21	45:RJ:154:LYS:HE2	1.84	0.59
45:RJ:252:LYS:N	44:RK:100:ALA:HB1	2.17	0.59
45:RJ:268:ILE:O	45:RJ:300:MET:HE2	2.02	0.59
44:RK:311:LYS:CD	44:RK:342:GLN:HE21	2.16	0.59
44:RM:141:VAL:CG1	44:RM:173:PRO:HD3	2.32	0.59
44:RM:224:TYR:HA	44:RM:227:LEU:CG	2.32	0.59
45:RN:127:CYS:SG	45:RN:130:LEU:HD13	2.43	0.59
44:SA:344:VAL:HG11	44:SA:346:TRP:CE2	2.38	0.59
44:SC:69:ASP:OD1	44:SC:70:LEU:N	2.35	0.59
45:SD:324:LYS:HD2	44:SE:210:TYR:CD1	2.38	0.59
44:SE:175:PRO:HG2	44:SE:304:LYS:HG2	1.84	0.59
44:SG:259:LEU:HD21	44:SG:316:SER:HB2	1.85	0.59
45:SH:135:ILE:CD1	45:SH:152:ILE:HD11	2.31	0.59
44:SI:70:LEU:HD11	44:SI:149:LEU:CD2	2.29	0.59
45:SJ:345:ILE:HD13	44:SK:398:MET:HG2	1.82	0.59
45:SL:292:GLN:HE22	45:SL:298:ASN:HB2	1.67	0.59
44:SM:291:ILE:HD12	44:SM:374:ALA:O	2.03	0.59
45:SN:4:ILE:CG2	45:SN:131:GLN:HB3	2.33	0.59
45:SN:20:PHE:O	45:SN:24:ILE:HG12	2.02	0.59
45:SN:233:MET:HA	45:SN:236:VAL:CG2	2.31	0.59
44:TA:137:VAL:CG1	44:TA:168:GLY:HA2	2.32	0.59
44:TA:151:SER:HB3	44:TA:193:SER:OG	2.03	0.59
44:TC:142:GLY:HA2	44:TC:186:ASN:ND2	2.17	0.59
45:TD:91:VAL:O	45:TD:91:VAL:HG23	2.02	0.59
45:TD:139:LEU:HD22	45:TD:170:VAL:HG12	1.85	0.59
45:TD:167:PHE:HA	45:TD:200:MET:HB2	1.84	0.59
44:TE:103:PHE:HB3	44:TE:408:TYR:HE2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:372:MET:SD	44:TE:373:ARG:HD3	2.42	0.59
45:TF:46:ARG:HB3	45:TF:49:VAL:HG23	1.85	0.59
45:TF:69:GLU:OE1	45:TF:71:GLY:N	2.34	0.59
45:TJ:312:THR:HG23	45:TJ:370:ASN:ND2	2.18	0.59
45:TL:10:GLY:HA2	48:TL:501:GDP:O1B	2.02	0.59
45:TL:61:PRO:HD2	45:TL:84:LEU:HB3	1.83	0.59
45:TL:371:SER:O	45:TL:374:ILE:HG23	2.02	0.59
44:TM:88:HIS:CG	44:TM:89:PRO:HD2	2.38	0.59
44:TM:272:TYR:OH	44:TM:374:ALA:HB1	2.02	0.59
45:UB:244:GLY:HA2	45:UB:355:ASP:OD2	2.02	0.59
44:UC:262:TYR:CE1	45:UD:393:ALA:HA	2.38	0.59
44:UC:316:SER:O	44:UC:377:MET:HA	2.02	0.59
44:UC:318:MET:O	44:UC:375:VAL:HA	2.02	0.59
45:UD:42:LEU:O	45:UD:242:PHE:HE2	1.85	0.59
45:UD:215:LEU:HD23	45:UD:215:LEU:O	2.03	0.59
44:UI:202:VAL:HA	44:UI:268:MET:O	2.02	0.59
44:UK:89:PRO:HD3	44:VI:280:LYS:NZ	2.18	0.59
44:UK:349:THR:O	44:UK:349:THR:HG23	2.02	0.59
45:UL:316:LEU:HD23	45:UL:318:ARG:HH22	1.66	0.59
44:UM:319:TYR:HB2	44:UM:355:ILE:HG12	1.84	0.59
44:UM:434:GLU:O	44:UM:437:ILE:HG12	2.01	0.59
45:UN:99:ASN:ND2	48:UN:501:GDP:O2B	2.35	0.59
45:UN:263:LEU:HG	45:UN:422:TYR:CE2	2.37	0.59
44:VA:67:PHE:HB2	44:VA:92:LEU:HA	1.84	0.59
45:VB:295:ASP:OD1	45:VB:297:LYS:HG2	2.02	0.59
45:VH:35:THR:O	45:VH:37:HIS:ND1	2.34	0.59
45:VH:304:ASP:OD1	45:VH:306:ARG:HG2	2.03	0.59
44:VI:217:LEU:HD13	44:VI:367:ASP:HB3	1.84	0.59
44:VI:404:PHE:CZ	45:VJ:259:PRO:HG3	2.37	0.59
45:VJ:398:TYR:O	45:VJ:403:MET:HB2	2.03	0.59
44:VK:91:GLN:HG3	44:VK:92:LEU:HD12	1.85	0.59
44:VM:111:GLY:HA2	44:VM:149:LEU:HD11	1.84	0.59
45:VN:186:THR:HG21	45:VN:385:PHE:CE1	2.36	0.59
45:WB:242:PHE:CD2	45:WB:356:ILE:HD13	2.38	0.59
44:WC:181:VAL:H	45:WD:256:ASN:HD21	1.47	0.59
44:WC:257:THR:HA	45:WF:397:TRP:CE2	2.38	0.59
45:WF:58:ARG:O	45:WF:58:ARG:HG3	2.02	0.59
44:WG:246:GLY:HA2	44:WG:357:TYR:CZ	2.38	0.59
44:WG:287:SER:HA	44:WG:373:ARG:NH2	2.18	0.59
44:WI:113:GLU:O	44:WI:114:ILE:HD13	2.02	0.59
44:WI:171:ILE:HG12	44:WI:204:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:185:TYR:OH	44:WI:399:TYR:N	2.35	0.59
45:WJ:377:MET:O	45:WJ:380:ARG:HG2	2.03	0.59
44:WK:143:GLY:HA3	46:WK:501:GTP:O2B	2.01	0.59
44:WM:119:LEU:CB	44:WM:123:ARG:HH12	2.10	0.59
44:WM:212:ILE:HD12	44:WM:215:ARG:HH22	1.68	0.59
10:0N:190:PRO:CG	44:KK:42:ILE:HG12	2.32	0.59
2:1A:143:HIS:HB3	44:AE:32:PRO:CG	2.33	0.59
20:1J:198:ARG:HD3	44:IG:370:LYS:CG	2.33	0.59
20:1J:244:LEU:CB	44:IL:221:ARG:HH22	2.16	0.59
25:1P:302:LYS:NZ	45:TD:362:LYS:HG3	2.12	0.59
26:3R:283:ARG:NH2	44:CK:45:GLY:HA2	2.17	0.59
11:4Q:104:ARG:HD3	44:AI:423:GLU:OE2	2.03	0.59
38:5E:65:GLU:OE2	45:NB:35:THR:HG21	2.02	0.59
38:5G:154:TYR:CE2	38:5H:12:ASN:HB2	2.35	0.59
35:5R:12:LEU:HB3	35:5R:13:PRO:CD	2.33	0.59
35:5R:16:CYS:C	35:5R:18:PRO:HD2	2.23	0.59
35:5R:335:VAL:HA	35:5R:368:GLN:HE22	1.67	0.59
36:5S:160:THR:O	36:5S:164:LYS:HG2	2.02	0.59
36:5S:177:GLU:OE1	36:5S:177:GLU:N	2.26	0.59
40:6F:39:LYS:HA	40:6F:60:LYS:HA	1.82	0.59
41:6G:125:ASP:OD1	41:6G:126:GLU:HG2	2.03	0.59
41:6G:131:GLY:O	44:VG:337:THR:HG21	2.03	0.59
44:AA:200:VAL:HG13	44:AA:268:MET:SD	2.41	0.59
45:AB:169:VAL:HG13	45:AB:202:ILE:O	2.02	0.59
45:AB:271:ALA:HB3	45:AB:365:VAL:CG2	2.32	0.59
45:AD:398:TYR:HB3	45:AD:403:MET:SD	2.43	0.59
44:AE:269:LEU:HD23	44:AE:269:LEU:H	1.67	0.59
44:AE:276:ILE:HG23	44:AE:281:ALA:CB	2.32	0.59
45:AF:215:LEU:CD2	45:AF:273:LEU:HD11	2.32	0.59
44:AI:240:ALA:HB1	44:AI:356:ASN:ND2	2.15	0.59
45:AJ:107:THR:CG2	45:AJ:401:GLU:HB3	2.33	0.59
44:AK:207:GLU:OE1	44:AK:304:LYS:HE3	2.03	0.59
45:AL:317:PHE:HB3	45:AL:321:MET:SD	2.41	0.59
44:BC:408:TYR:HB3	44:BC:413:MET:HG3	1.85	0.59
45:BD:310:TYR:CD1	45:BD:371:SER:HB2	2.37	0.59
45:BD:380:ARG:O	45:BD:383:GLU:N	2.36	0.59
45:BH:62:ARG:O	45:BH:62:ARG:HG3	2.03	0.59
45:BL:132:GLY:HA2	45:BL:162:ARG:HB3	1.85	0.59
45:BL:139:LEU:HD13	45:BL:168:SER:HB3	1.85	0.59
44:CA:176:GLN:OE1	44:CA:176:GLN:N	2.35	0.59
45:CB:246:LEU:HB2	45:CB:353:ILE:HD13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:328:VAL:HG21	44:CC:353:VAL:CG2	2.33	0.59
45:CH:197:ASP:O	45:CH:264:HIS:HB2	2.03	0.59
45:CJ:407:GLU:O	45:CJ:410:GLU:HG2	2.03	0.59
44:CK:11:GLN:HB3	46:CK:501:GTP:O2B	2.01	0.59
44:CK:51:THR:HB	44:CK:243:ARG:HD3	1.84	0.59
44:CK:265:ILE:HG23	44:CK:432:TYR:HE1	1.68	0.59
44:CM:338:LYS:NZ	44:CM:340:THR:CG2	2.65	0.59
44:CM:417:GLU:O	44:CM:420:GLU:HG2	2.03	0.59
45:CN:211:CYS:HB3	45:CN:217:LEU:HG	1.83	0.59
45:CN:372:THR:HG21	45:CN:426:GLN:CB	2.30	0.59
44:DA:141:VAL:HG22	44:DA:187:SER:HA	1.84	0.59
44:DC:214:ARG:HH12	44:DC:220:GLU:CG	2.14	0.59
44:DE:22:GLU:HG2	44:DE:83:TYR:HE2	1.67	0.59
45:DF:68:LEU:HD23	45:DF:97:ALA:CB	2.30	0.59
45:DJ:130:LEU:HB3	45:DJ:162:ARG:HD2	1.83	0.59
45:DJ:136:THR:HG22	45:DJ:167:PHE:HB2	1.85	0.59
44:DK:88:HIS:O	44:DK:91:GLN:HG2	2.02	0.59
44:DM:108:TYR:HB2	44:DM:411:GLU:O	2.02	0.59
44:EA:6:SER:O	44:EA:7:ILE:HD13	2.02	0.59
44:EA:7:ILE:O	44:EA:138:PHE:N	2.33	0.59
44:EA:268:MET:HG2	44:EA:380:ASN:HB2	1.82	0.59
45:EB:262:ARG:HD2	45:EB:418:LEU:HD13	1.84	0.59
45:ED:151:LEU:HA	45:ED:154:LYS:NZ	2.16	0.59
44:EE:258:ASN:OD1	45:EF:179:VAL:HG22	2.01	0.59
44:EE:372:MET:O	44:EE:373:ARG:NE	2.35	0.59
45:EH:8:GLN:NE2	45:EH:14:ASN:HA	2.17	0.59
45:EH:286:VAL:HG11	45:EH:325:GLU:OE1	2.03	0.59
44:EI:10:GLY:O	44:EI:14:ILE:N	2.33	0.59
44:EI:11:GLN:HA	44:EI:14:ILE:HG22	1.83	0.59
44:EI:91:GLN:HA	44:EI:121:ARG:HD2	1.84	0.59
44:EI:301:MET:HE1	44:EI:307:PRO:HG3	1.84	0.59
44:EI:363:VAL:HG23	44:EI:364:PRO:HD2	1.85	0.59
45:EJ:211:CYS:HA	45:EJ:215:LEU:HD12	1.84	0.59
45:EJ:272:PRO:HD2	45:EJ:364:ALA:CB	2.32	0.59
45:EL:269:GLY:N	45:EL:367:PHE:O	2.29	0.59
44:FA:385:ALA:HA	44:FA:388:PHE:CD2	2.38	0.59
44:FC:68:LEU:HD21	44:FC:118:CYS:CB	2.30	0.59
44:FC:276:ILE:HG12	44:FC:281:ALA:HB2	1.83	0.59
45:FD:68:LEU:HD23	45:FD:97:ALA:HB2	1.84	0.59
45:FF:257:LEU:HD21	45:FF:368:VAL:CG1	2.32	0.59
44:FG:75:ILE:HG21	44:FG:94:SER:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:238:LEU:HD21	44:FI:255:PHE:CE2	2.38	0.59
45:FJ:178:THR:HG22	45:FJ:180:VAL:H	1.67	0.59
44:FK:88:HIS:CE1	44:FK:90:GLU:HG2	2.38	0.59
44:FM:275:ILE:HA	44:FM:368:LEU:HD11	1.85	0.59
44:GA:3:GLU:OE2	44:GA:130:THR:HG22	2.02	0.59
44:GA:314:ALA:N	44:GA:380:ASN:O	2.28	0.59
45:GB:52:ASN:HB2	45:GB:60:VAL:CG1	2.30	0.59
44:GC:105:ARG:O	44:GC:110:ILE:HG12	2.02	0.59
44:GE:402:ARG:O	44:GE:405:VAL:HG22	2.03	0.59
44:GI:90:GLU:OE1	44:HI:280:LYS:NZ	2.34	0.59
45:GL:16:ILE:HG21	45:GL:233:MET:HE3	1.83	0.59
45:GL:173:PRO:CD	45:GL:380:ARG:HD3	2.33	0.59
45:GL:304:ASP:OD1	45:GL:306:ARG:HG2	2.02	0.59
44:GM:201:ALA:O	44:GM:267:PHE:HA	2.02	0.59
45:GN:183:TYR:CE1	45:GN:386:THR:HB	2.38	0.59
45:GN:312:THR:CB	45:GN:348:ASN:HB2	2.32	0.59
44:HA:223:THR:HG22	44:HA:226:ASN:OD1	2.03	0.59
44:HA:243:ARG:HG3	44:HA:244:PHE:CE2	2.38	0.59
45:HB:209:ASP:OD1	45:HB:213:ARG:HD3	2.02	0.59
44:HE:172:TYR:HB3	44:HE:173:PRO:HD2	1.84	0.59
44:HE:188:ILE:HG13	44:HE:395:PHE:CD1	2.38	0.59
44:HE:209:ILE:CG2	44:HE:227:LEU:HD22	2.31	0.59
44:HE:287:SER:O	44:HE:291:ILE:HG12	2.03	0.59
45:HF:69:GLU:OE2	45:HF:72:THR:HG23	2.02	0.59
45:HF:386:THR:O	45:HF:390:ARG:HG3	2.03	0.59
44:HG:206:ASN:HA	44:HG:209:ILE:CD1	2.31	0.59
44:HI:321:GLY:O	44:HI:357:TYR:HA	2.02	0.59
45:HJ:143:THR:HG23	48:HJ:501:GDP:O3B	2.02	0.59
44:HK:344:VAL:HG11	44:HK:346:TRP:CZ3	2.38	0.59
44:HK:434:GLU:O	44:HK:437:ILE:HG12	2.02	0.59
44:IA:102:ASN:HB3	44:IA:105:ARG:HB2	1.85	0.59
44:IA:121:ARG:NE	44:IA:121:ARG:HA	2.16	0.59
44:IC:221:ARG:HH21	45:ID:321:MET:HE2	1.68	0.59
44:IE:319:TYR:CE2	44:IE:328:VAL:HG22	2.37	0.59
44:IG:11:GLN:HA	44:IG:14:ILE:HD12	1.83	0.59
45:IH:314:SER:CB	45:IH:350:LYS:HB3	2.32	0.59
45:IJ:267:MET:HE3	45:IJ:301:CYS:HB3	1.84	0.59
45:IL:12:CYS:HB2	48:IL:501:GDP:O4'	2.03	0.59
44:IM:271:SER:O	44:IM:377:MET:N	2.28	0.59
44:JA:105:ARG:NH1	45:JB:251:ARG:HH12	2.00	0.59
45:JD:109:GLY:O	45:JD:113:ILE:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:285:THR:CB	45:JD:287:PRO:HD2	2.33	0.59
44:JE:3:GLU:HB2	44:JE:129:CYS:SG	2.43	0.59
44:JE:387:VAL:O	44:JE:390:ARG:HG3	2.03	0.59
44:JG:257:THR:HA	45:JJ:397:TRP:HZ3	1.68	0.59
44:JI:13:GLY:HA2	44:JI:16:VAL:HG12	1.83	0.59
44:JI:289:ALA:O	44:JI:292:THR:HG22	2.03	0.59
45:KD:318:ARG:HH21	45:KD:358:PRO:HG3	1.67	0.59
45:KF:167:PHE:CZ	45:KF:233:MET:HG2	2.37	0.59
45:KJ:253:LEU:CD1	45:KJ:316:LEU:HD11	2.32	0.59
44:KK:50:ASN:HA	44:KK:53:PHE:O	2.02	0.59
44:KK:123:ARG:HH21	44:LK:338:LYS:NZ	2.01	0.59
45:KL:117:LEU:HD11	45:KL:154:LYS:CD	2.32	0.59
45:KL:123:GLU:HA	45:KL:123:GLU:OE2	2.03	0.59
44:LA:54:SER:HB3	44:LA:64:ARG:NH2	2.17	0.59
44:LA:167:LEU:CD2	44:LA:200:VAL:HB	2.33	0.59
44:LC:265:ILE:HD12	44:LC:432:TYR:CZ	2.38	0.59
44:LC:271:SER:HB3	44:LC:377:MET:HE3	1.85	0.59
44:LC:338:LYS:HG3	44:LC:340:THR:H	1.68	0.59
45:LD:254:ALA:O	45:LD:258:ILE:HG12	2.02	0.59
45:LF:286:VAL:HB	45:LF:325:GLU:CD	2.23	0.59
44:LG:60:LYS:NZ	44:MG:283:HIS:HB3	2.17	0.59
45:LJ:178:THR:HG22	45:LJ:180:VAL:H	1.68	0.59
45:LJ:289:LEU:HD11	45:LJ:363:MET:CB	2.28	0.59
45:LL:187:LEU:HD11	45:LL:408:PHE:CE1	2.38	0.59
45:LL:282:ARG:HG3	45:LL:288:GLU:OE2	2.02	0.59
44:LM:272:TYR:HE2	44:LM:275:ILE:HD13	1.67	0.59
45:MB:330:MET:CG	45:MB:349:ILE:HD13	2.32	0.59
45:MF:104:GLY:C	45:MF:109:GLY:HA3	2.23	0.59
45:MF:374:ILE:HD11	45:MF:422:TYR:CZ	2.38	0.59
45:MJ:8:GLN:OE1	45:MJ:17:GLY:HA3	2.02	0.59
45:ML:12:CYS:CB	45:ML:138:SER:HB2	2.32	0.59
45:ML:360:GLY:O	45:ML:361:LEU:HD22	2.02	0.59
44:MM:141:VAL:HG11	44:MM:172:TYR:CE1	2.37	0.59
44:MM:189:LEU:HD11	44:MM:418:PHE:CE1	2.38	0.59
45:NB:84:LEU:O	45:NB:86:ARG:NH2	2.36	0.59
45:NB:103:LYS:HA	45:NB:107:THR:HG23	1.84	0.59
45:NB:130:LEU:HB3	45:NB:162:ARG:HD2	1.85	0.59
45:NB:257:LEU:HD21	45:NB:314:SER:CB	2.33	0.59
45:NB:303:ALA:HB2	45:NB:377:MET:CE	2.32	0.59
45:ND:101:TRP:CZ3	45:ND:187:LEU:HD13	2.38	0.59
45:NF:178:THR:CB	45:NF:181:GLU:HG3	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:262:ARG:NE	45:NH:421:GLU:OE1	2.30	0.59
44:NI:221:ARG:NH1	45:NJ:325:GLU:OE2	2.36	0.59
44:NK:216:ASN:CB	44:NK:275:ILE:HG23	2.33	0.59
44:NM:105:ARG:HA	44:NM:109:THR:HG1	1.68	0.59
44:NM:316:SER:O	44:NM:377:MET:HA	2.03	0.59
45:OB:4:ILE:HD11	45:OB:134:GLN:NE2	2.15	0.59
45:OB:296:ALA:HA	45:OB:299:MET:HE1	1.85	0.59
45:OB:358:PRO:HG2	45:OB:364:ALA:HB2	1.84	0.59
45:OD:130:LEU:HD22	45:OD:162:ARG:HB3	1.85	0.59
44:OE:174:SER:HB3	44:OE:207:GLU:HB2	1.84	0.59
44:OE:286:LEU:N	44:OE:290:GLU:OE2	2.35	0.59
44:OE:291:ILE:HG13	44:OE:292:THR:N	2.18	0.59
45:OJ:3:GLU:O	45:OJ:131:GLN:HB3	2.02	0.59
44:OK:430:LYS:O	44:OK:433:GLU:HG2	2.03	0.59
44:OM:183:GLU:N	44:OM:184:PRO:HD2	2.18	0.59
44:OM:428:LEU:HG	44:OM:432:TYR:CE2	2.32	0.59
44:PA:101:ASN:HA	44:PA:144:GLY:HA3	1.84	0.59
44:PC:181:VAL:HG22	45:PD:256:ASN:OD1	2.03	0.59
45:PD:11:GLN:CA	45:PD:72:THR:HG21	2.33	0.59
44:PG:230:LEU:HD12	44:PG:275:ILE:HD13	1.85	0.59
45:PH:330:MET:HE3	45:PH:349:ILE:HD12	1.85	0.59
44:PK:105:ARG:NH2	44:PK:411:GLU:HG3	2.18	0.59
44:PK:203:MET:HB2	44:PK:303:ALA:HB2	1.85	0.59
45:PL:390:ARG:NH1	45:PL:391:ARG:HD3	2.18	0.59
45:PN:8:GLN:OE1	45:PN:17:GLY:HA3	2.01	0.59
45:QB:116:VAL:O	45:QB:119:VAL:HG12	2.03	0.59
45:QD:222:TYR:CD1	45:QD:225:LEU:HD12	2.37	0.59
44:QG:9:VAL:HG23	44:QG:68:LEU:O	2.03	0.59
45:QJ:111:GLU:OE1	45:QJ:112:LEU:HB2	2.03	0.59
44:QK:234:VAL:CG2	44:QK:272:TYR:HB2	2.32	0.59
45:RB:173:PRO:HG2	45:RB:380:ARG:HD3	1.84	0.59
44:RC:68:LEU:CD2	44:RC:153:LEU:HD11	2.30	0.59
44:RC:99:ALA:HB3	44:RC:145:THR:N	2.18	0.59
44:RC:402:ARG:O	44:RC:402:ARG:HG2	2.03	0.59
45:RD:42:LEU:HA	45:RD:45:GLU:HG3	1.84	0.59
45:RF:136:THR:HG22	45:RF:167:PHE:CB	2.30	0.59
45:RF:383:GLU:O	45:RF:386:THR:HG22	2.03	0.59
44:RI:261:PRO:HA	45:RJ:394:PHE:CD1	2.38	0.59
45:RJ:293:MET:SD	45:RJ:367:PHE:HB2	2.42	0.59
45:RJ:346:PRO:HD2	44:RK:398:MET:CE	2.32	0.59
44:RK:104:ALA:HB2	44:RK:413:MET:CE	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:230:LEU:HD11	44:RM:275:ILE:HG21	1.85	0.59
45:RN:47:ILE:HD12	45:RN:59:TYR:CE2	2.37	0.59
44:SA:70:LEU:HA	44:SA:95:GLY:HA3	1.83	0.59
45:SB:19:LYS:CG	45:SB:226:ASN:HB3	2.31	0.59
45:SB:67:ASP:OD1	45:SB:68:LEU:N	2.35	0.59
45:SB:283:ALA:O	45:SB:288:GLU:HG3	2.02	0.59
44:SC:239:THR:O	44:SC:242:LEU:HB2	2.03	0.59
44:SG:152:LEU:HD13	44:SG:155:GLU:OE1	2.02	0.59
45:SH:190:HIS:O	45:SH:193:VAL:HG12	2.01	0.59
45:SJ:316:LEU:HB2	45:SJ:366:THR:HB	1.84	0.59
44:SM:398:MET:O	44:SM:402:ARG:N	2.35	0.59
45:SN:285:THR:O	45:SN:289:LEU:N	2.29	0.59
45:TB:165:GLU:OE2	45:TB:250:LEU:HD13	2.02	0.59
44:TC:235:ILE:O	44:TC:239:THR:OG1	2.02	0.59
45:TD:164:MET:O	45:TD:197:ASP:HB2	2.03	0.59
45:TF:257:LEU:O	45:TF:312:THR:HG21	2.02	0.59
44:TG:149:LEU:O	44:TG:153:LEU:HD23	2.02	0.59
44:TG:267:PHE:O	44:TG:268:MET:HE2	2.03	0.59
44:TG:315:CYS:HA	44:TG:379:SER:HB3	1.83	0.59
44:TI:223:THR:HG22	44:TI:226:ASN:OD1	2.02	0.59
45:TJ:317:PHE:HB2	45:TJ:353:ILE:HG13	1.85	0.59
44:TK:253:THR:HG23	44:TK:254:GLU:HG3	1.85	0.59
45:TL:232:ALA:CB	45:TL:268:ILE:HD12	2.33	0.59
45:TN:372:THR:HA	45:TN:422:TYR:HE2	1.67	0.59
44:UA:209:ILE:HG13	44:UA:302:MET:CE	2.33	0.59
45:UB:185:ALA:O	45:UB:189:VAL:HG23	2.01	0.59
45:UB:243:PRO:O	45:UB:355:ASP:HB2	2.03	0.59
45:UB:383:GLU:O	45:UB:386:THR:HG22	2.03	0.59
44:UC:135:PHE:HB2	44:UC:166:LYS:CG	2.27	0.59
44:UE:298:PRO:O	44:UE:301:MET:HE2	2.01	0.59
44:UE:319:TYR:HD2	44:UE:323:VAL:HG21	1.67	0.59
44:UE:329:ASN:O	44:UE:333:ALA:N	2.24	0.59
45:UF:204:ASN:HA	45:UF:207:LEU:HD12	1.83	0.59
44:UG:141:VAL:HG11	44:UG:172:TYR:HA	1.84	0.59
45:UH:178:THR:HB	45:UH:181:GLU:OE2	2.02	0.59
45:UH:202:ILE:CG2	45:UH:207:LEU:HD11	2.33	0.59
45:UJ:252:LYS:HD3	45:UJ:350:LYS:HE3	1.85	0.59
45:UL:183:TYR:OH	45:UL:393:ALA:HB3	2.02	0.59
45:UN:3:GLU:O	45:UN:4:ILE:HD13	2.03	0.59
44:VA:256:GLN:HB2	44:VA:260:VAL:HG21	1.84	0.59
44:VA:258:ASN:HD21	45:VD:178:THR:CG2	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:115:VAL:O	44:VC:119:LEU:HD23	2.03	0.59
44:VC:317:MET:HE1	44:VC:332:ILE:HD11	1.85	0.59
45:VD:172:SER:HB3	45:VD:203:ASP:OD1	2.03	0.59
44:VE:326:LYS:HE2	45:VH:219:THR:HG22	1.83	0.59
45:VF:77:ARG:O	45:VF:82:GLY:HA3	2.03	0.59
45:VF:100:ASN:HD21	45:VF:103:LYS:HE2	1.67	0.59
45:VF:311:LEU:HD22	45:VF:344:TRP:CZ2	2.38	0.59
45:VH:376:GLU:HG3	45:VH:380:ARG:HH21	1.68	0.59
45:VJ:61:PRO:HD2	45:VJ:84:LEU:O	2.01	0.59
45:VJ:304:ASP:OD1	45:VJ:306:ARG:HG2	2.03	0.59
44:VK:96:LYS:HB3	45:VL:1:MET:HE2	1.84	0.59
45:VL:311:LEU:HG	45:VL:372:THR:HG23	1.85	0.59
45:VN:372:THR:HA	45:VN:422:TYR:CE2	2.30	0.59
45:WB:173:PRO:HD3	45:WB:380:ARG:HD3	1.85	0.59
45:WB:207:LEU:CD1	45:WB:225:LEU:HB3	2.32	0.59
44:WC:88:HIS:CG	44:WC:89:PRO:HD2	2.37	0.59
44:WC:223:THR:HG23	44:WC:225:THR:H	1.66	0.59
45:WF:66:MET:SD	45:WF:116:VAL:HG21	2.42	0.59
44:WG:183:GLU:N	44:WG:184:PRO:HD2	2.18	0.59
44:WI:276:ILE:HD13	44:WI:281:ALA:HA	1.85	0.59
45:WJ:8:GLN:NE2	45:WJ:17:GLY:HA3	2.18	0.59
45:WJ:35:THR:HG23	45:WJ:37:HIS:CE1	2.38	0.59
44:WK:101:ASN:HA	44:WK:144:GLY:HA2	1.83	0.59
44:WM:133:GLN:HB3	44:WM:252:ILE:HD12	1.85	0.59
44:WM:222:PRO:HG2	45:WN:324:LYS:HB2	1.84	0.59
1:6H:174:MET:H	45:FB:320:ARG:HD2	1.57	0.59
7:0F:141:ILE:HD11	44:GC:279:GLU:HB2	1.83	0.59
10:0N:249:LEU:HD11	45:KN:73:MET:CB	2.17	0.59
5:1D:59:GLY:HA3	44:EG:279:GLU:CG	2.32	0.59
9:1H:115:ARG:HH12	45:HL:280:GLN:CA	2.11	0.59
26:1R:299:LEU:C	45:CD:78:ALA:HB1	2.22	0.59
15:1V:73:ARG:HG2	45:LJ:121:ARG:NH1	2.18	0.59
32:2I:73:LYS:HD3	44:FE:132:LEU:HB3	1.83	0.59
21:2K:440:LYS:CE	44:GE:278:ALA:HB3	2.26	0.59
22:2L:668:GLN:NE2	44:CM:367:ASP:HA	2.18	0.59
32:3I:206:GLN:HE22	44:GK:308:ARG:HD2	1.67	0.59
22:3L:45:ARG:HB3	45:BB:362:LYS:HD2	1.83	0.59
26:3R:99:VAL:HG11	44:AK:42:ILE:HA	1.85	0.59
26:3R:505:TYR:CB	44:EK:39:ASP:HB3	2.29	0.59
13:3T:147:PHE:CE1	45:MN:106:TYR:HB3	2.37	0.59
37:5A:126:ILE:HG13	45:ND:215:LEU:CD2	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:20:LEU:O	45:KN:415:MET:HG2	2.03	0.59
37:5D:42:SER:HA	44:KK:346:TRP:CZ2	2.38	0.59
37:5D:56:ILE:HB	45:KN:391:ARG:CD	2.28	0.59
38:5F:203:PHE:CE1	44:LG:426:ALA:HB2	2.38	0.59
38:5F:213:TYR:HA	38:5F:216:LYS:CG	2.29	0.59
38:5H:33:TYR:HB3	44:NK:85:GLN:OE1	2.02	0.59
39:5I:112:PRO:HB3	45:ND:309:ARG:CZ	2.33	0.59
35:5R:409:PRO:HG2	35:5R:411:LYS:HZ2	1.66	0.59
36:5S:180:VAL:HA	36:5S:183:TYR:CZ	2.37	0.59
41:6G:263:SER:N	44:VA:337:THR:O	2.35	0.59
41:6G:302:TYR:HE1	45:UB:122:LYS:HA	1.68	0.59
35:6R:253:ARG:O	35:6R:253:ARG:HG2	2.03	0.59
35:6R:538:PHE:CZ	35:6R:578:TYR:HA	2.38	0.59
35:7R:107:PRO:CA	45:BD:360:GLY:HA3	2.33	0.59
35:7R:307:LYS:HE3	35:7R:308:LYS:HB2	1.85	0.59
43:8P:100:UNK:O	43:8P:104:UNK:N	2.36	0.59
45:AB:151:LEU:O	45:AB:155:VAL:HG23	2.03	0.59
45:AF:186:THR:HA	45:AF:415:MET:CE	2.20	0.59
44:AG:174:SER:HB2	44:AG:177:VAL:O	2.02	0.59
45:AH:186:THR:HG21	45:AH:385:PHE:CE1	2.37	0.59
44:AI:280:LYS:O	44:AI:280:LYS:HG2	2.01	0.59
44:AK:319:TYR:CD2	44:AK:328:VAL:HG22	2.36	0.59
45:AL:40:SER:OG	45:AL:43:GLN:HG3	2.02	0.59
45:AL:107:THR:HG21	45:AL:401:GLU:HG2	1.85	0.59
45:AL:217:LEU:HD11	45:AL:220:PRO:HB3	1.85	0.59
45:AL:360:GLY:C	45:AL:361:LEU:HD22	2.23	0.59
44:AM:373:ARG:HG3	44:AM:373:ARG:HH11	1.67	0.59
45:AN:286:VAL:HG11	45:AN:325:GLU:CD	2.23	0.59
44:BA:320:ARG:O	44:BA:373:ARG:HB2	2.02	0.59
45:BD:101:TRP:HB3	45:BD:398:TYR:HE1	1.68	0.59
45:BD:271:ALA:HB1	45:BD:272:PRO:HA	1.83	0.59
44:BE:199:ASP:HB3	44:BE:256:GLN:HG2	1.84	0.59
44:BE:398:MET:HE2	45:BF:346:PRO:HD2	1.84	0.59
45:BH:42:LEU:HD23	45:BH:45:GLU:OE2	2.02	0.59
45:BH:285:THR:OG1	45:BH:287:PRO:HD2	2.03	0.59
44:BI:14:ILE:HD11	44:BI:69:ASP:HB2	1.85	0.59
45:BJ:69:GLU:CD	45:BJ:71:GLY:H	2.06	0.59
45:BL:287:PRO:CA	45:BL:329:GLN:HE22	2.16	0.59
45:BL:371:SER:O	45:BL:374:ILE:HG23	2.02	0.59
45:BN:324:LYS:NZ	45:BN:328:GLU:OE1	2.24	0.59
44:CA:21:TRP:HZ2	44:CA:65:ALA:HB2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:70:LEU:HA	44:CA:95:GLY:N	2.17	0.59
44:CE:288:VAL:CA	44:CE:291:ILE:HG12	2.31	0.59
45:CF:396:HIS:HA	45:CF:399:THR:OG1	2.02	0.59
44:CG:384:ILE:O	44:CG:387:VAL:HG22	2.02	0.59
44:CI:292:THR:HG21	44:CI:331:SER:HB3	1.84	0.59
44:CI:311:LYS:HE2	44:CI:342:GLN:NE2	2.17	0.59
44:CK:271:SER:HB3	44:CK:301:MET:HG3	1.85	0.59
45:CL:68:LEU:HD11	45:CL:147:MET:CE	2.32	0.59
45:CL:260:PHE:HB3	45:CL:261:PRO:HD2	1.84	0.59
44:CM:6:SER:HB2	44:CM:136:LEU:HB2	1.85	0.59
44:DA:188:ILE:HD12	44:DA:425:LEU:CD1	2.26	0.59
45:DB:249:ASP:O	45:DB:252:LYS:N	2.36	0.59
45:DB:332:ASN:OD1	45:DB:336:LYS:NZ	2.21	0.59
45:DD:81:PHE:CA	45:DD:84:LEU:HD13	2.32	0.59
45:DD:192:LEU:HD12	45:DD:196:ALA:HB2	1.84	0.59
44:DE:54:SER:HB3	44:DE:64:ARG:CZ	2.33	0.59
45:DF:270:PHE:HD2	45:DF:273:LEU:HD21	1.68	0.59
44:DI:270:SER:HB2	44:DI:377:MET:O	2.02	0.59
45:DJ:289:LEU:HD11	45:DJ:363:MET:CE	2.33	0.59
44:DK:432:TYR:HA	44:DK:435:VAL:CG2	2.32	0.59
44:DM:22:GLU:HG3	44:DM:83:TYR:CE2	2.38	0.59
45:ED:268:ILE:CG2	45:ED:368:VAL:HG22	2.33	0.59
45:ED:318:ARG:CB	45:ED:358:PRO:HD3	2.32	0.59
45:EF:238:CYS:HB2	45:EF:318:ARG:HH21	1.67	0.59
45:EF:320:ARG:N	45:EF:320:ARG:HD2	2.17	0.59
44:EG:77:GLU:HA	44:EG:80:THR:OG1	2.01	0.59
45:EJ:54:ALA:HB1	45:FJ:282:ARG:O	2.03	0.59
44:EK:105:ARG:O	44:EK:110:ILE:HG12	2.03	0.59
44:EM:23:LEU:CD2	44:EM:233:GLN:HA	2.33	0.59
45:EN:374:ILE:HD12	45:EN:378:PHE:CE2	2.38	0.59
44:FA:13:GLY:CA	44:FA:16:VAL:HG12	2.31	0.59
44:FC:93:ILE:CD1	44:FC:117:LEU:HB3	2.33	0.59
44:FC:326:LYS:HE2	44:FC:326:LYS:HA	1.83	0.59
45:FD:130:LEU:HB3	45:FD:162:ARG:HD2	1.83	0.59
45:FF:184:ASN:OD1	45:FF:185:ALA:N	2.34	0.59
45:FH:68:LEU:HG	45:FH:96:GLY:HA2	1.84	0.59
45:FJ:8:GLN:HE21	45:FJ:65:LEU:HG	1.67	0.59
45:FJ:256:ASN:ND2	45:FJ:350:LYS:HD2	2.14	0.59
45:FL:20:PHE:HB2	45:FL:233:MET:HE1	1.85	0.59
45:FL:101:TRP:CZ3	45:FL:187:LEU:HB3	2.37	0.59
45:FL:240:LEU:O	45:FL:240:LEU:HD23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:247:ASN:OD1	45:FN:248:SER:N	2.36	0.59
44:GA:1:MET:HA	44:GA:130:THR:HG23	1.85	0.59
44:GA:420:GLU:CA	44:GA:423:GLU:HG2	2.32	0.59
44:GE:406:HIS:CE1	45:GF:260:PHE:HA	2.38	0.59
44:GG:60:LYS:HD3	44:HG:283:HIS:NE2	2.17	0.59
45:GH:101:TRP:HB2	45:GH:184:ASN:CB	2.32	0.59
44:GI:137:VAL:O	44:GI:168:GLY:HA2	2.03	0.59
45:GJ:193:VAL:HG23	45:GJ:264:HIS:NE2	2.17	0.59
44:GK:50:ASN:HA	44:GK:53:PHE:O	2.03	0.59
44:GK:183:GLU:HG3	44:GK:184:PRO:HD3	1.83	0.59
45:GL:318:ARG:NH2	45:GL:358:PRO:HG2	2.18	0.59
45:GN:217:LEU:HD12	45:GN:217:LEU:O	2.02	0.59
45:HB:172:SER:HB2	45:HB:173:PRO:CD	2.33	0.59
45:HD:20:PHE:O	45:HD:23:VAL:HB	2.02	0.59
45:HD:116:VAL:O	45:HD:119:VAL:HG12	2.02	0.59
45:HD:237:THR:CG2	45:HD:241:ARG:HH21	2.16	0.59
44:HE:406:HIS:CE1	45:HF:261:PRO:HD3	2.38	0.59
45:HF:89:ASN:HD22	45:HF:119:VAL:CG2	2.16	0.59
45:HF:345:ILE:O	45:HF:345:ILE:HG23	2.03	0.59
45:HH:173:PRO:CD	45:HH:380:ARG:HD3	2.33	0.59
45:HJ:3:GLU:CB	45:HJ:49:VAL:HA	2.33	0.59
45:HJ:68:LEU:CD2	45:HJ:112:LEU:HD12	2.32	0.59
44:HK:319:TYR:CZ	44:HK:328:VAL:HG23	2.38	0.59
45:HL:137:HIS:O	45:HL:168:SER:HA	2.03	0.59
44:HM:204:LEU:HD23	44:HM:302:MET:HG2	1.84	0.59
44:HM:269:LEU:HD23	44:HM:379:SER:O	2.02	0.59
44:IA:101:ASN:HB2	45:IB:255:VAL:HG11	1.85	0.59
45:IB:42:LEU:HA	45:IB:45:GLU:CG	2.31	0.59
44:IC:313:MET:HB2	44:IC:380:ASN:O	2.02	0.59
44:IC:363:VAL:CG2	44:IC:364:PRO:HD2	2.33	0.59
45:IH:202:ILE:HD13	45:IH:229:VAL:HG22	1.84	0.59
44:II:256:GLN:O	44:II:260:VAL:HG22	2.03	0.59
44:IK:189:LEU:HD21	44:IK:418:PHE:CD1	2.37	0.59
45:IN:64:ILE:HG22	45:IN:66:MET:CE	2.32	0.59
45:IN:204:ASN:OD1	45:IN:205:GLU:N	2.35	0.59
44:JA:82:THR:HG23	44:JA:83:TYR:CD1	2.37	0.59
44:JA:205:ASP:OD1	44:JA:303:ALA:HA	2.02	0.59
44:JA:224:TYR:CD2	45:JB:323:THR:HG21	2.37	0.59
45:JB:170:VAL:HG21	45:JB:377:MET:SD	2.42	0.59
44:JC:196:GLU:HG3	44:JC:197:HIS:CE1	2.38	0.59
44:JC:241:SER:HA	44:JC:356:ASN:HD21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:42:LEU:HD21	45:JH:243:PRO:HD2	1.85	0.59
44:JI:387:VAL:O	44:JI:391:LEU:HD23	2.03	0.59
44:JM:188:ILE:HG23	44:JM:425:LEU:CD2	2.32	0.59
45:JN:217:LEU:CB	45:JN:220:PRO:HG3	2.30	0.59
44:KA:259:LEU:HD21	44:KA:316:SER:HB2	1.84	0.59
45:KB:183:TYR:OH	45:KB:388:MET:O	2.18	0.59
44:KC:268:MET:SD	44:KC:378:ILE:HG22	2.43	0.59
44:KK:394:LYS:HD3	45:KL:346:PRO:HB2	1.85	0.59
45:KL:407:GLU:HA	45:KL:410:GLU:HG2	1.85	0.59
44:KM:14:ILE:HD13	44:KM:75:ILE:CD1	2.33	0.59
44:KM:141:VAL:HG21	44:KM:172:TYR:CE1	2.38	0.59
44:LA:268:MET:HB2	44:LA:379:SER:C	2.23	0.59
45:LB:113:ILE:HD13	45:LB:150:LEU:CD2	2.31	0.59
45:LD:104:GLY:O	45:LD:147:MET:N	2.36	0.59
44:LG:254:GLU:HG2	45:LJ:98:GLY:CA	2.31	0.59
45:LJ:50:TYR:O	45:LJ:62:ARG:HG2	2.03	0.59
45:LL:201:VAL:HG21	45:LL:377:MET:SD	2.43	0.59
45:LL:412:GLU:O	45:LL:416:ASN:N	2.30	0.59
44:LM:320:ARG:NE	44:LM:360:PRO:HG3	2.17	0.59
45:LN:6:HIS:NE2	45:LN:8:GLN:HB3	2.18	0.59
45:LN:180:VAL:HG13	45:LN:184:ASN:ND2	2.17	0.59
45:LN:203:ASP:OD2	45:LN:302:ALA:N	2.32	0.59
44:MA:276:ILE:HG23	44:MA:281:ALA:CB	2.33	0.59
45:MB:3:GLU:HB2	45:MB:49:VAL:O	2.03	0.59
45:MB:275:SER:OG	45:MB:278:SER:OG	1.96	0.59
44:MC:311:LYS:HD2	44:MC:342:GLN:CG	2.32	0.59
44:ME:276:ILE:CD1	44:ME:281:ALA:HA	2.33	0.59
44:MG:22:GLU:HG3	44:MG:83:TYR:CE2	2.37	0.59
44:MG:156:ARG:O	44:MG:159:VAL:HG12	2.03	0.59
45:MH:257:LEU:CA	45:MH:312:THR:HG21	2.32	0.59
44:MI:187:SER:O	44:MI:190:SER:OG	2.18	0.59
45:MJ:34:GLY:HA3	45:MJ:58:ARG:CG	2.32	0.59
44:MK:329:ASN:ND2	45:MN:175:VAL:HG21	2.18	0.59
44:MK:422:ARG:NH1	44:MK:425:LEU:HB2	2.18	0.59
44:MM:311:LYS:N	44:MM:382:THR:HG1	2.00	0.59
44:NA:99:ALA:HB3	44:NA:145:THR:HG23	1.84	0.59
44:NC:270:SER:HB3	44:NC:378:ILE:HD13	1.82	0.59
45:NF:309:ARG:NH2	45:NF:341:PHE:O	2.36	0.59
44:NG:202:VAL:HA	44:NG:268:MET:O	2.03	0.59
44:NG:326:LYS:HG3	44:NG:327:ASP:N	2.16	0.59
45:NH:287:PRO:HA	45:NH:329:GLN:OE1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:269:GLY:HA2	45:NJ:300:MET:CE	2.33	0.59
45:NJ:325:GLU:HA	45:NJ:328:GLU:CG	2.28	0.59
45:NL:383:GLU:O	45:NL:386:THR:HG22	2.03	0.59
44:NM:3:GLU:HG2	44:NM:64:ARG:HH21	1.68	0.59
44:NM:229:ARG:HB2	44:NM:367:ASP:HB2	1.83	0.59
44:OE:6:SER:OG	44:OE:65:ALA:HA	2.02	0.59
44:OG:305:CYS:O	44:OG:307:PRO:HD3	2.01	0.59
44:OG:332:ILE:HG23	44:OG:351:PHE:CD2	2.38	0.59
45:OH:207:LEU:HD23	45:OH:300:MET:CE	2.32	0.59
45:OH:235:GLY:CA	45:OH:318:ARG:HH21	2.15	0.59
45:OJ:329:GLN:HA	45:OJ:332:ASN:HD21	1.68	0.59
45:OL:99:ASN:HA	45:OL:142:GLY:CA	2.27	0.59
44:OM:9:VAL:HG11	44:OM:150:GLY:HA3	1.85	0.59
44:OM:325:PRO:HG3	44:OM:355:ILE:HD13	1.83	0.59
44:PA:23:LEU:HD11	44:PA:361:THR:HG23	1.83	0.59
45:PB:101:TRP:HB2	45:PB:184:ASN:HB2	1.84	0.59
45:PD:5:VAL:HG11	45:PD:159:TYR:CD2	2.38	0.59
45:PD:6:HIS:NE2	45:PD:8:GLN:HB3	2.18	0.59
45:PD:189:VAL:O	45:PD:193:VAL:HG12	2.03	0.59
45:PD:271:ALA:CB	45:PD:365:VAL:H	2.15	0.59
45:PD:320:ARG:O	45:PD:320:ARG:HG2	2.02	0.59
45:PF:20:PHE:CG	45:PF:24:ILE:HB	2.37	0.59
45:PJ:207:LEU:CB	45:PJ:225:LEU:HD22	2.32	0.59
44:PK:345:ASP:HB2	44:PK:438:GLU:HG2	1.85	0.59
45:PL:134:GLN:C	45:PL:135:ILE:HD13	2.23	0.59
45:PL:187:LEU:HD11	45:PL:408:PHE:CE1	2.37	0.59
45:PN:11:GLN:O	45:PN:15:GLN:HG2	2.02	0.59
44:QA:194:LEU:HB2	44:QA:198:THR:OG1	2.03	0.59
44:QC:185:TYR:HE2	44:QC:404:PHE:HB2	1.67	0.59
45:QD:19:LYS:O	45:QD:22:GLU:N	2.36	0.59
44:QE:228:ASN:O	44:QE:231:ILE:HG22	2.02	0.59
45:QF:86:ARG:HH22	45:RF:278:SER:HA	1.68	0.59
44:QG:76:ASP:O	44:QG:80:THR:HG22	2.03	0.59
44:QG:276:ILE:CG1	44:QG:281:ALA:HB2	2.29	0.59
45:QH:45:GLU:C	45:QH:46:ARG:HD2	2.23	0.59
44:QK:265:ILE:HG23	44:QK:432:TYR:CE1	2.37	0.59
45:QL:11:GLN:NE2	45:QL:15:GLN:HG3	2.17	0.59
45:QL:29:GLY:HA3	45:QL:43:GLN:HE21	1.68	0.59
45:QL:246:LEU:HD11	44:QM:224:TYR:CE2	2.28	0.59
44:QM:72:PRO:HB2	44:QM:76:ASP:OD2	2.02	0.59
44:QM:192:HIS:ND1	44:QM:424:ASP:OD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:311:LYS:HD2	44:QM:342:GLN:CG	2.29	0.59
44:QM:416:GLY:O	44:QM:419:SER:N	2.36	0.59
45:RB:131:GLN:O	45:RB:163:ILE:HG12	2.03	0.59
45:RB:246:LEU:HD11	44:RC:224:TYR:CE2	2.38	0.59
45:RB:251:ARG:HH22	44:RC:99:ALA:C	2.05	0.59
45:RD:1:MET:O	45:RD:2:ARG:HD3	2.03	0.59
45:RD:293:MET:HE2	45:RD:367:PHE:HD1	1.67	0.59
44:RE:105:ARG:HB3	44:RE:110:ILE:HD13	1.82	0.59
44:RE:166:LYS:NZ	44:RE:197:HIS:O	2.36	0.59
44:RE:316:SER:HB2	44:RE:352:LYS:HD2	1.84	0.59
44:RI:288:VAL:HA	44:RI:291:ILE:CG1	2.27	0.59
44:RI:317:MET:HA	44:RI:377:MET:HA	1.84	0.59
45:RJ:22:GLU:HG2	45:RJ:81:PHE:CD1	2.38	0.59
45:RJ:156:ARG:NH1	45:RJ:195:ASN:O	2.36	0.59
45:RJ:163:ILE:CD1	45:RJ:250:LEU:HB2	2.32	0.59
45:RL:114:ASP:OD1	45:RL:115:SER:N	2.36	0.59
44:RM:188:ILE:HG23	44:RM:425:LEU:CD1	2.32	0.59
44:RM:191:THR:HG21	44:RM:425:LEU:HD21	1.84	0.59
45:RN:139:LEU:HA	45:RN:145:SER:HB3	1.83	0.59
45:RN:399:THR:HA	45:RN:403:MET:O	2.02	0.59
44:SA:25:CYS:O	44:SA:30:ILE:N	2.33	0.59
45:SB:136:THR:HG22	45:SB:167:PHE:HD2	1.67	0.59
45:SB:139:LEU:HD22	45:SB:170:VAL:HG12	1.84	0.59
45:SB:207:LEU:HD23	45:SB:210:ILE:HD12	1.85	0.59
45:SB:289:LEU:HD23	45:SB:292:GLN:NE2	2.14	0.59
45:SB:322:SER:OG	44:SC:223:THR:HA	2.02	0.59
44:SC:205:ASP:O	44:SC:209:ILE:HG13	2.02	0.59
44:SC:246:GLY:HA2	44:SC:357:TYR:CD2	2.37	0.59
45:SD:328:GLU:HG3	45:SD:329:GLN:OE1	2.03	0.59
44:SE:340:THR:HG23	44:SE:341:ILE:HG13	1.84	0.59
45:SF:67:ASP:HB3	45:SF:73:MET:CE	2.30	0.59
44:SG:258:ASN:C	44:SG:259:LEU:HD22	2.23	0.59
45:SH:183:TYR:CE1	45:SH:388:MET:HE3	2.38	0.59
44:SI:5:ILE:CD1	44:SI:125:LEU:HD23	2.32	0.59
45:SL:7:ILE:HB	45:SL:135:ILE:CD1	2.33	0.59
45:SL:274:THR:HG21	45:SL:282:ARG:HD3	1.85	0.59
44:SM:141:VAL:HG11	44:SM:172:TYR:HA	1.84	0.59
44:SM:210:TYR:CE1	44:SM:227:LEU:HD11	2.37	0.59
45:SN:46:ARG:HG3	45:SN:46:ARG:O	2.03	0.59
45:SN:412:GLU:OE2	45:SN:416:ASN:HB2	2.01	0.59
45:TD:240:LEU:HD12	45:TD:249:ASP:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:72:THR:HG23	45:TH:73:MET:HG3	1.84	0.59
45:TJ:60:VAL:HB	45:TJ:86:ARG:CD	2.32	0.59
44:TK:261:PRO:HG2	44:TK:313:MET:SD	2.42	0.59
44:TM:63:PRO:HD3	44:TM:86:LEU:HG	1.84	0.59
45:TN:317:PHE:HB3	45:TN:321:MET:CE	2.32	0.59
45:TN:375:GLN:HB2	45:TN:419:VAL:HG13	1.84	0.59
45:UD:245:GLN:HB2	45:UD:353:ILE:HB	1.84	0.59
44:UE:242:LEU:HD23	44:UE:251:ASP:OD1	2.02	0.59
45:UF:131:GLN:O	45:UF:163:ILE:HG12	2.03	0.59
45:UF:175:VAL:O	45:UF:175:VAL:HG23	2.03	0.59
45:UF:385:PHE:CE2	45:UF:412:GLU:HB2	2.37	0.59
44:UG:121:ARG:HH12	44:UG:124:LYS:HD2	1.67	0.59
44:UG:260:VAL:HG13	44:UG:260:VAL:O	2.03	0.59
44:UG:348:PRO:HD2	45:UH:388:MET:CE	2.33	0.59
45:UH:282:ARG:NH2	45:UH:288:GLU:HB3	2.17	0.59
44:UI:103:PHE:HB2	44:UI:186:ASN:CB	2.33	0.59
44:UI:324:VAL:HB	44:UI:327:ASP:OD2	2.03	0.59
45:UJ:68:LEU:HD13	45:UJ:147:MET:HE2	1.85	0.59
45:UJ:251:ARG:NE	44:UK:97:GLU:OE1	2.35	0.59
45:UJ:304:ASP:OD1	45:UJ:306:ARG:HG2	2.02	0.59
45:UJ:331:LEU:HG	45:UJ:335:ASN:ND2	2.17	0.59
44:UK:137:VAL:HG11	44:UK:154:LEU:HD21	1.85	0.59
44:UK:271:SER:HB2	44:UK:377:MET:HE2	1.85	0.59
45:UL:207:LEU:HB3	45:UL:225:LEU:HD22	1.85	0.59
44:VA:5:ILE:HD12	44:VA:135:PHE:CE1	2.38	0.59
45:VB:31:ASP:OD2	45:VB:33:THR:OG1	2.21	0.59
45:VB:164:MET:H	45:VB:197:ASP:HB2	1.67	0.59
45:VB:167:PHE:HE2	45:VB:233:MET:HG2	1.66	0.59
45:VB:234:SER:O	45:VB:238:CYS:HB3	2.03	0.59
44:VC:68:LEU:HD21	44:VC:118:CYS:HB2	1.85	0.59
44:VC:210:TYR:CZ	45:VD:324:LYS:HA	2.38	0.59
45:VD:214:THR:O	45:VD:216:LYS:HG3	2.03	0.59
45:VD:286:VAL:CB	45:VD:287:PRO:HD3	2.31	0.59
45:VD:290:THR:HA	45:VD:293:MET:CE	2.33	0.59
44:VE:174:SER:HB2	44:VE:177:VAL:O	2.02	0.59
44:VG:19:ALA:HB2	44:VG:228:ASN:HB3	1.85	0.59
44:VG:291:ILE:HG13	44:VG:292:THR:N	2.17	0.59
45:VH:240:LEU:O	45:VH:240:LEU:HD23	2.02	0.59
45:VL:381:VAL:O	45:VL:385:PHE:N	2.33	0.59
44:VM:140:SER:CB	46:VM:501:GTP:H1'	2.32	0.59
45:VN:207:LEU:CD2	45:VN:228:LEU:HD12	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:221:THR:HG23	45:VN:223:GLY:H	1.66	0.59
45:VN:232:ALA:O	45:VN:236:VAL:HG23	2.02	0.59
45:VN:408:PHE:O	45:VN:412:GLU:N	2.30	0.59
44:WA:316:SER:O	44:WA:378:ILE:N	2.36	0.59
45:WB:166:THR:OG1	45:WB:199:CYS:HB2	2.03	0.59
44:WC:346:TRP:HZ2	44:WC:435:VAL:HG13	1.68	0.59
45:WD:257:LEU:C	45:WD:258:ILE:HD12	2.23	0.59
44:WE:222:PRO:CG	45:WF:324:LYS:HE3	2.33	0.59
44:WE:417:GLU:O	44:WE:420:GLU:HG2	2.02	0.59
45:WH:4:ILE:HD11	45:WH:50:TYR:OH	2.03	0.59
45:WH:11:GLN:HG3	45:WH:72:THR:HG21	1.83	0.59
44:WK:115:VAL:O	44:WK:119:LEU:HD23	2.03	0.59
44:WK:269:LEU:HD23	44:WK:269:LEU:H	1.66	0.59
45:WL:213:ARG:HH21	45:WL:297:LYS:CD	2.14	0.59
45:WL:379:LYS:HA	45:WL:382:ALA:HB3	1.84	0.59
45:WL:398:TYR:O	45:WL:403:MET:HB2	2.02	0.59
45:WN:403:MET:HG3	45:WN:407:GLU:CD	2.22	0.59
7:0F:194:PHE:HZ	45:ED:53:GLU:HG2	1.66	0.59
8:0G:101:TYR:CD1	45:JN:40:SER:HB3	2.37	0.59
8:1G:144:TYR:CE1	44:KA:278:ALA:HB3	2.37	0.59
19:1I:152:LYS:HD3	44:KE:364:PRO:HG2	1.84	0.59
26:1R:152:LEU:CA	45:AF:78:ALA:HB1	2.32	0.59
16:1X:1:MET:HG2	44:ME:244:PHE:O	2.01	0.59
24:2O:124:SER:OG	45:VN:32:PRO:HG2	2.02	0.59
13:2T:140:GLN:OE1	44:MG:163:LYS:HG2	2.01	0.59
11:3Q:36:ARG:HH22	36:5S:204:ILE:HB	1.68	0.59
38:5G:52:GLY:O	38:5G:55:GLU:N	2.35	0.59
35:5R:65:LEU:HB2	45:MJ:39:ASP:OD2	2.02	0.59
35:5R:80:ARG:HB2	35:5R:80:ARG:HH11	1.67	0.59
35:5R:415:LYS:HD3	35:5R:449:GLY:O	2.03	0.59
35:5R:481:ASN:HB2	35:5R:483:LYS:NZ	2.17	0.59
40:6F:17:PHE:CA	45:IF:53:GLU:HG3	2.26	0.59
35:6R:245:LEU:HD23	44:BM:58:ALA:HB3	1.82	0.59
35:7R:10:PRO:HG3	45:LB:359:LYS:NZ	2.17	0.59
35:7R:442:PHE:CE2	35:7R:457:GLU:HG2	2.38	0.59
35:7R:603:LYS:O	35:7R:607:VAL:HG23	2.03	0.59
42:8L:185:UNK:O	42:8L:189:UNK:N	2.36	0.59
45:AD:241:ARG:HG3	45:AD:242:PHE:CD2	2.37	0.59
45:AD:383:GLU:HA	45:AD:383:GLU:OE2	2.03	0.59
45:AF:222:TYR:HB3	48:AF:501:GDP:O6	2.01	0.59
44:AI:204:LEU:HD13	44:AI:231:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:301:MET:HA	44:AK:301:MET:CE	2.33	0.59
44:AM:105:ARG:HH21	44:AM:110:ILE:HD11	1.66	0.59
44:AM:237:SER:HA	44:AM:320:ARG:NH1	2.18	0.59
44:AM:383:ALA:O	44:AM:386:GLU:HG2	2.02	0.59
44:BA:362:VAL:O	44:BA:362:VAL:HG13	2.03	0.59
45:BD:105:HIS:HA	45:BD:150:LEU:CD2	2.32	0.59
44:BE:239:THR:CB	44:BE:242:LEU:HD12	2.33	0.59
45:BF:193:VAL:HG22	45:BF:262:ARG:NH2	2.17	0.59
44:BG:182:VAL:HG22	44:BG:185:TYR:HB2	1.83	0.59
44:BI:252:ILE:HA	44:BI:255:PHE:CD2	2.37	0.59
44:BK:34:GLY:O	44:BK:60:LYS:HA	2.02	0.59
45:BL:216:LYS:HG3	45:BL:216:LYS:O	2.02	0.59
44:BM:36:MET:HG3	44:BM:37:PRO:HD2	1.84	0.59
44:CA:182:VAL:O	44:CA:182:VAL:HG22	2.02	0.59
44:CA:350:GLY:CA	45:CB:179:VAL:HG12	2.30	0.59
45:CB:211:CYS:O	45:CB:217:LEU:HG	2.03	0.59
44:CC:325:PRO:HB3	45:CD:222:TYR:CE2	2.37	0.59
45:CD:186:THR:HG21	45:CD:385:PHE:CD1	2.37	0.59
44:CE:104:ALA:CB	44:CE:411:GLU:HB2	2.33	0.59
45:CF:135:ILE:HD11	45:CF:164:MET:CE	2.33	0.59
45:CF:187:LEU:HD11	45:CF:408:PHE:HE1	1.67	0.59
45:CF:387:ALA:O	45:CF:390:ARG:HG2	2.03	0.59
44:CI:202:VAL:HG13	44:CI:268:MET:O	2.02	0.59
44:CK:353:VAL:HG22	45:CL:177:ASP:HA	1.85	0.59
45:CL:46:ARG:NH2	44:CM:73:THR:HA	2.18	0.59
44:CM:118:CYS:O	44:CM:122:ILE:HD12	2.03	0.59
45:CN:27:GLU:OE2	45:CN:241:ARG:NH2	2.35	0.59
44:DA:157:LEU:O	44:DA:161:TYR:HB2	2.02	0.59
44:DA:157:LEU:HB3	44:DA:166:LYS:HD3	1.84	0.59
45:DB:8:GLN:O	45:DB:66:MET:HG2	2.03	0.59
45:DB:52:ASN:O	45:DB:60:VAL:N	2.27	0.59
44:DC:258:ASN:ND2	44:DC:352:LYS:HD3	2.17	0.59
44:DC:316:SER:OG	44:DC:378:ILE:O	2.09	0.59
44:DC:428:LEU:HG	44:DC:432:TYR:CE2	2.38	0.59
44:DE:346:TRP:HZ3	45:DF:394:PHE:HE1	1.49	0.59
45:DF:97:ALA:O	45:DF:103:LYS:HD2	2.02	0.59
45:DF:329:GLN:O	45:DF:333:VAL:HG23	2.03	0.59
45:DH:4:ILE:HD13	45:DH:250:LEU:HD11	1.85	0.59
45:DH:12:CYS:O	45:DH:16:ILE:HG12	2.03	0.59
45:DH:130:LEU:HD21	45:DH:133:PHE:CE1	2.38	0.59
45:DH:247:ASN:ND2	44:DI:71:GLU:OE1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:274:PRO:HD2	44:DI:374:ALA:CB	2.32	0.59
45:DJ:101:TRP:CE3	45:DJ:187:LEU:HD13	2.37	0.59
45:DJ:258:ILE:HB	44:DK:407:TRP:CZ2	2.38	0.59
44:DK:271:SER:HB2	44:DK:377:MET:SD	2.43	0.59
44:DM:271:SER:OG	44:DM:301:MET:HA	2.03	0.59
45:DN:180:VAL:HG22	45:DN:183:TYR:HB2	1.85	0.59
44:EA:7:ILE:HA	44:EA:66:VAL:HG13	1.85	0.59
44:EA:417:GLU:O	44:EA:420:GLU:HG2	2.02	0.59
44:EE:70:LEU:HD11	44:EE:149:LEU:CD2	2.33	0.59
44:EE:161:TYR:HB3	44:EE:164:LYS:CE	2.32	0.59
45:EF:61:PRO:CG	45:EF:84:LEU:HB3	2.32	0.59
45:EF:72:THR:HG23	45:EF:73:MET:N	2.18	0.59
45:EF:165:GLU:HA	45:EF:198:GLU:O	2.02	0.59
44:EG:89:PRO:HB2	44:EG:90:GLU:OE1	2.03	0.59
44:EG:91:GLN:HA	44:EG:121:ARG:HH12	1.67	0.59
45:EH:334:GLN:HE22	45:EH:347:ASN:HA	1.67	0.59
44:EI:17:GLY:HA2	44:EI:20:CYS:SG	2.43	0.59
44:EI:288:VAL:HG11	44:EI:327:ASP:OD1	2.03	0.59
45:EJ:2:ARG:HB2	45:EJ:131:GLN:NE2	2.17	0.59
45:EJ:238:CYS:SG	45:EJ:318:ARG:NE	2.76	0.59
45:EJ:286:VAL:HG12	45:EJ:287:PRO:HD3	1.85	0.59
44:EK:276:ILE:HD12	44:EK:281:ALA:O	2.02	0.59
45:EL:203:ASP:OD2	45:EL:377:MET:HE3	2.03	0.59
45:EL:293:MET:HE2	45:EL:367:PHE:HD1	1.68	0.59
44:EM:39:ASP:O	44:EM:41:THR:HG23	2.02	0.59
44:FA:141:VAL:HG12	44:FA:171:ILE:O	2.02	0.59
44:FA:183:GLU:HG2	44:FA:184:PRO:HD3	1.83	0.59
45:FB:11:GLN:O	45:FB:15:GLN:HG2	2.01	0.59
44:FC:115:VAL:HG22	44:FC:119:LEU:CD2	2.32	0.59
44:FC:215:ARG:NH1	44:FC:299:ALA:HB1	2.16	0.59
44:FC:225:THR:HA	44:FC:228:ASN:ND2	2.18	0.59
44:FE:66:VAL:HG11	44:FE:122:ILE:CD1	2.33	0.59
45:FH:107:THR:HG21	45:FH:401:GLU:OE2	2.03	0.59
44:FI:75:ILE:O	44:FI:78:VAL:HG12	2.03	0.59
45:FL:187:LEU:HD11	45:FL:408:PHE:CZ	2.37	0.59
44:GA:98:ASP:O	44:GA:105:ARG:NH1	2.36	0.59
44:GA:167:LEU:HD21	44:GA:255:PHE:CD2	2.37	0.59
44:GA:320:ARG:HD3	44:GA:360:PRO:HG3	1.85	0.59
45:GB:51:TYR:HE1	45:GB:84:LEU:HD23	1.68	0.59
45:GB:257:LEU:HA	45:GB:312:THR:OG1	2.03	0.59
44:GC:257:THR:HG22	45:GF:397:TRP:CH2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:178:THR:CG2	45:GD:180:VAL:HG12	2.32	0.59
44:GE:69:ASP:OD1	44:GE:70:LEU:N	2.35	0.59
44:GE:172:TYR:HD2	44:GE:203:MET:HE1	1.67	0.59
45:GF:372:THR:HA	45:GF:422:TYR:CE2	2.25	0.59
44:GG:184:PRO:O	44:GG:187:SER:OG	2.19	0.59
45:GJ:116:VAL:O	45:GJ:119:VAL:HG22	2.03	0.59
45:GL:32:PRO:HG3	45:GL:81:PHE:CE1	2.35	0.59
45:GL:314:SER:OG	45:GL:350:LYS:HB3	2.02	0.59
44:GM:252:ILE:HA	44:GM:255:PHE:CE2	2.38	0.59
44:GM:288:VAL:CA	44:GM:291:ILE:HG12	2.24	0.59
45:GN:185:ALA:O	45:GN:189:VAL:HG23	2.02	0.59
45:HB:420:SER:O	45:HB:423:GLN:HG3	2.03	0.59
44:HC:102:ASN:HB3	44:HC:105:ARG:HG3	1.83	0.59
44:HG:319:TYR:CE2	44:HG:328:VAL:HG22	2.38	0.59
45:HH:67:ASP:OD1	45:HH:68:LEU:N	2.35	0.59
45:HH:217:LEU:HD12	45:HH:217:LEU:O	2.01	0.59
44:HI:406:HIS:HA	44:HI:409:VAL:HG12	1.85	0.59
45:HJ:166:THR:OG1	45:HJ:199:CYS:HA	2.03	0.59
44:HK:69:ASP:OD1	44:HK:70:LEU:N	2.35	0.59
45:HL:73:MET:O	45:HL:76:VAL:N	2.36	0.59
45:HL:260:PHE:HB3	45:HL:261:PRO:HD2	1.85	0.59
44:HM:105:ARG:NH2	44:HM:110:ILE:HD13	2.18	0.59
44:HM:340:THR:HG23	44:HM:341:ILE:HG13	1.84	0.59
45:HN:192:LEU:HG	45:HN:196:ALA:HB2	1.85	0.59
45:HN:237:THR:HG23	45:HN:241:ARG:HE	1.68	0.59
44:IA:181:VAL:HG12	45:IB:347:ASN:O	2.02	0.59
44:IA:210:TYR:CE2	45:IB:324:LYS:HD3	2.37	0.59
45:IB:3:GLU:O	45:IB:130:LEU:HD12	2.02	0.59
45:IB:28:HIS:CD2	45:IB:47:ILE:HD13	2.38	0.59
45:IB:99:ASN:HA	45:IB:142:GLY:N	2.18	0.59
45:IB:258:ILE:CD1	45:IB:261:PRO:HA	2.32	0.59
44:IC:132:LEU:HD11	44:IC:135:PHE:HE1	1.67	0.59
45:IF:36:TYR:CD2	45:IF:44:LEU:HD11	2.38	0.59
44:IG:184:PRO:HB3	44:IG:394:LYS:CD	2.32	0.59
44:IG:221:ARG:HH21	45:IH:321:MET:HB2	1.67	0.59
45:IH:86:ARG:NE	45:IH:87:PRO:HD2	2.18	0.59
44:II:1:MET:HE2	45:IL:94:GLN:HB3	1.82	0.59
45:IJ:36:TYR:CZ	45:IJ:44:LEU:HG	2.38	0.59
44:IK:12:GLY:O	44:IK:16:VAL:N	2.24	0.59
44:IM:96:LYS:HB3	45:IN:1:MET:HE2	1.85	0.59
45:IN:5:VAL:HG12	45:IN:62:ARG:CD	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:263:LEU:HG	45:IN:422:TYR:CD1	2.38	0.59
44:JA:182:VAL:O	44:JA:182:VAL:HG22	2.03	0.59
45:JB:204:ASN:O	45:JB:207:LEU:HB2	2.02	0.59
45:JB:314:SER:HA	45:JB:350:LYS:HB3	1.84	0.59
44:JC:329:ASN:ND2	45:JF:175:VAL:HG22	2.16	0.59
45:JH:286:VAL:HG12	45:JH:329:GLN:HG3	1.85	0.59
44:JI:6:SER:OG	44:JI:64:ARG:O	2.19	0.59
44:JI:24:PHE:HZ	44:JI:235:ILE:HG22	1.66	0.59
45:JJ:77:ARG:HD2	45:JJ:77:ARG:O	2.01	0.59
44:JM:74:VAL:HG13	44:JM:75:ILE:HG12	1.83	0.59
44:JM:406:HIS:O	44:JM:409:VAL:HG12	2.03	0.59
45:JN:211:CYS:O	45:JN:215:LEU:HB2	2.02	0.59
44:KA:176:GLN:HG3	45:KB:331:LEU:HD21	1.84	0.59
45:KD:134:GLN:HA	45:KD:165:GLU:HB2	1.85	0.59
44:KE:21:TRP:HZ2	44:KE:65:ALA:HB2	1.68	0.59
44:KE:276:ILE:HG21	44:KE:281:ALA:HA	1.84	0.59
45:KF:4:ILE:HD11	45:KF:50:TYR:OH	2.03	0.59
45:KF:7:ILE:O	45:KF:135:ILE:HA	2.03	0.59
45:KF:152:ILE:HG12	45:KF:164:MET:HE1	1.84	0.59
45:KH:117:LEU:HD11	45:KH:158:GLU:OE2	2.03	0.59
45:KH:150:LEU:HD23	45:KH:154:LYS:HG2	1.83	0.59
45:KH:267:MET:CE	45:KH:299:MET:HG2	2.33	0.59
45:KJ:293:MET:HE2	45:KJ:367:PHE:HB3	1.85	0.59
45:LB:30:ILE:HG13	45:LB:51:TYR:CE2	2.38	0.59
45:LB:64:ILE:C	45:LB:65:LEU:HD12	2.22	0.59
45:LD:105:HIS:CD2	45:LD:150:LEU:HB2	2.38	0.59
45:LH:221:THR:O	45:LH:224:ASP:N	2.34	0.59
45:LH:267:MET:CB	45:LH:299:MET:HE1	2.25	0.59
45:LJ:391:ARG:HH11	45:LJ:391:ARG:HG3	1.68	0.59
44:LM:119:LEU:HA	44:LM:122:ILE:CD1	2.33	0.59
45:MB:27:GLU:HG3	45:MB:42:LEU:HG	1.84	0.59
45:MB:46:ARG:O	45:MB:49:VAL:HG23	2.02	0.59
44:MC:210:TYR:HB3	45:MD:324:LYS:NZ	2.17	0.59
44:MG:319:TYR:CZ	44:MG:328:VAL:HG23	2.38	0.59
44:MG:383:ALA:O	44:MG:386:GLU:HG2	2.03	0.59
45:MH:130:LEU:HD21	45:MH:133:PHE:HE1	1.68	0.59
45:MH:266:PHE:CD1	45:MH:370:ASN:HB2	2.38	0.59
45:MJ:4:ILE:HG22	45:MJ:132:GLY:N	2.17	0.59
44:MK:7:ILE:HD12	44:MK:66:VAL:HG22	1.85	0.59
44:MK:280:LYS:HD3	44:MK:283:HIS:NE2	2.18	0.59
45:ML:19:LYS:HE3	45:ML:22:GLU:OE1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:259:PRO:CD	45:ML:260:PHE:N	2.65	0.59
44:NA:47:ASP:HB3	44:NA:50:ASN:CB	2.33	0.59
45:NB:245:GLN:C	45:NB:246:LEU:HD12	2.23	0.59
45:NB:374:ILE:HG13	45:NB:377:MET:CE	2.32	0.59
44:NC:183:GLU:OE1	44:NC:183:GLU:N	2.33	0.59
45:ND:269:GLY:HA2	45:ND:300:MET:CE	2.33	0.59
44:NE:209:ILE:HG12	44:NE:302:MET:CE	2.32	0.59
45:NF:26:ASP:HB3	45:NF:359:LYS:CE	2.33	0.59
45:NH:391:ARG:HG3	45:NH:393:ALA:H	1.67	0.59
44:NI:184:PRO:O	44:NI:188:ILE:HG12	2.03	0.59
44:NK:217:LEU:HB3	44:NK:219:ILE:CD1	2.33	0.59
44:NK:310:GLY:CA	44:NK:383:ALA:HB2	2.32	0.59
45:NL:105:HIS:CD2	45:NL:150:LEU:HB2	2.38	0.59
44:NM:100:ALA:HB1	45:NN:252:LYS:HA	1.85	0.59
44:OC:79:ARG:HG2	44:OC:92:LEU:HD13	1.85	0.59
44:OC:319:TYR:CD2	44:OC:323:VAL:HG11	2.38	0.59
44:OC:338:LYS:HE3	44:OC:340:THR:HG22	1.84	0.59
45:OF:237:THR:HG23	45:OF:241:ARG:NH1	2.17	0.59
44:PA:231:ILE:O	44:PA:234:VAL:HG12	2.03	0.59
45:PB:70:PRO:HG3	45:PB:92:PHE:CD1	2.38	0.59
44:PC:279:GLU:C	44:PC:280:LYS:HD3	2.23	0.59
45:PD:1:MET:SD	45:PD:129:CYS:HB3	2.43	0.59
45:PD:10:GLY:HA2	45:PD:143:THR:OG1	2.02	0.59
45:PD:134:GLN:HA	45:PD:165:GLU:O	2.03	0.59
45:PD:270:PHE:CE2	45:PD:273:LEU:HD21	2.38	0.59
45:PD:309:ARG:HA	45:PD:340:TYR:O	2.03	0.59
45:PD:396:HIS:O	45:PD:399:THR:OG1	2.19	0.59
44:PE:9:VAL:O	44:PE:139:ASN:HA	2.03	0.59
45:PF:234:SER:O	45:PF:237:THR:HG22	2.03	0.59
44:PG:319:TYR:CE2	44:PG:328:VAL:HG22	2.38	0.59
44:PI:319:TYR:CE2	44:PI:328:VAL:HG22	2.38	0.59
45:PL:207:LEU:HB3	45:PL:225:LEU:HD22	1.83	0.59
45:PL:233:MET:O	45:PL:237:THR:HG22	2.02	0.59
45:PL:302:ALA:HB3	45:PL:377:MET:HE1	1.84	0.59
44:PM:248:LEU:CD2	44:PM:353:VAL:HG13	2.32	0.59
44:QA:34:GLY:N	44:QA:86:LEU:HD21	2.18	0.59
44:QA:271:SER:HB2	44:QA:377:MET:HG2	1.84	0.59
45:QB:347:ASN:O	44:QC:181:VAL:HG12	2.03	0.59
44:QC:236:SER:OG	44:QC:320:ARG:NH1	2.24	0.59
44:QE:63:PRO:HD3	44:QE:86:LEU:O	2.02	0.59
44:QE:113:GLU:OE1	44:QE:113:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:169:PHE:HB3	44:QE:204:LEU:HD12	1.84	0.59
45:QJ:18:ALA:O	45:QJ:22:GLU:HG3	2.03	0.59
45:QL:186:THR:HG23	45:QL:415:MET:SD	2.42	0.59
44:QM:254:GLU:OE1	45:QN:99:ASN:ND2	2.36	0.59
44:QM:256:GLN:HG2	44:QM:260:VAL:CG2	2.33	0.59
44:QM:377:MET:HE2	44:QM:379:SER:HB3	1.85	0.59
45:RB:211:CYS:CA	45:RB:215:LEU:HD12	2.24	0.59
45:RB:387:ALA:O	45:RB:390:ARG:HG2	2.01	0.59
45:RD:64:ILE:HG23	45:RD:89:ASN:HA	1.83	0.59
45:RD:200:MET:HE1	45:RD:268:ILE:HG12	1.84	0.59
45:RF:68:LEU:HD23	45:RF:97:ALA:N	2.17	0.59
45:RF:87:PRO:HA	45:RF:90:PHE:HD2	1.68	0.59
45:RF:204:ASN:HA	45:RF:207:LEU:CG	2.33	0.59
44:RG:88:HIS:O	44:RG:91:GLN:HG2	2.02	0.59
44:RG:141:VAL:HG12	44:RG:171:ILE:O	2.03	0.59
44:RG:352:LYS:HE2	44:RG:352:LYS:HA	1.84	0.59
45:RH:285:THR:CB	45:RH:287:PRO:HD2	2.33	0.59
44:RI:71:GLU:CD	44:RI:73:THR:H	2.05	0.59
44:RI:151:SER:HB3	44:RI:193:SER:OG	2.03	0.59
45:RJ:406:MET:O	45:RJ:410:GLU:HG3	2.03	0.59
44:RK:268:MET:HG2	44:RK:380:ASN:CB	2.33	0.59
45:RL:19:LYS:O	45:RL:23:VAL:HG23	2.02	0.59
45:RL:237:THR:OG1	45:RL:240:LEU:HB3	2.03	0.59
45:RL:251:ARG:HA	45:RL:254:ALA:HB3	1.85	0.59
44:RM:405:VAL:HG12	44:RM:409:VAL:HG23	1.83	0.59
45:RN:192:LEU:CD1	45:RN:196:ALA:HB2	2.32	0.59
45:RN:375:GLN:OE1	45:RN:423:GLN:HB3	2.03	0.59
44:SA:326:LYS:HD3	45:SB:212:PHE:CE1	2.37	0.59
45:SB:121:ARG:NH1	45:SB:158:GLU:OE1	2.36	0.59
45:SB:229:VAL:O	45:SB:233:MET:HE2	2.03	0.59
44:SC:68:LEU:HD21	44:SC:118:CYS:SG	2.43	0.59
44:SC:200:VAL:HG13	44:SC:268:MET:CE	2.33	0.59
45:SD:223:GLY:O	45:SD:227:HIS:N	2.36	0.59
45:SF:251:ARG:O	45:SF:255:VAL:HG23	2.02	0.59
44:SG:1:MET:HB2	44:SG:130:THR:CG2	2.31	0.59
44:SG:202:VAL:HG22	44:SG:268:MET:SD	2.42	0.59
44:SG:236:SER:O	44:SG:240:ALA:HB2	2.02	0.59
45:SH:16:ILE:O	45:SH:20:PHE:N	2.30	0.59
45:SH:116:VAL:O	45:SH:119:VAL:HG12	2.02	0.59
44:SI:268:MET:HB2	44:SI:380:ASN:CA	2.32	0.59
45:SJ:12:CYS:CB	45:SJ:138:SER:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:130:LEU:HD21	45:SJ:133:PHE:CZ	2.38	0.59
45:SJ:187:LEU:HD11	45:SJ:408:PHE:CE1	2.37	0.59
45:SJ:237:THR:HG23	45:SJ:241:ARG:NH2	2.15	0.59
45:SJ:257:LEU:HD12	45:SJ:258:ILE:HD12	1.85	0.59
44:SK:141:VAL:HG22	44:SK:187:SER:HA	1.85	0.59
45:SL:86:ARG:HG2	45:TL:281:TYR:HB3	1.83	0.59
44:SM:311:LYS:HB2	44:SM:382:THR:HG21	1.84	0.59
44:SM:417:GLU:O	44:SM:420:GLU:HG2	2.02	0.59
44:TA:275:ILE:HG12	44:TA:368:LEU:HD11	1.85	0.59
44:TA:296:PHE:CE2	44:TA:335:ILE:HD12	2.38	0.59
45:TD:132:GLY:HA3	45:TD:163:ILE:HG13	1.84	0.59
45:TD:164:MET:H	45:TD:197:ASP:HB2	1.67	0.59
45:TD:217:LEU:HD11	45:TD:220:PRO:CA	2.33	0.59
44:TE:113:GLU:O	44:TE:114:ILE:HD13	2.02	0.59
44:TE:137:VAL:CG1	44:TE:168:GLY:HA2	2.31	0.59
44:TG:99:ALA:HB1	44:TG:105:ARG:HB2	1.84	0.59
44:TG:344:VAL:CG1	44:TG:347:CYS:HB3	2.33	0.59
44:TI:5:ILE:HG12	44:TI:132:LEU:CD1	2.33	0.59
44:TI:209:ILE:HG12	44:TI:302:MET:CG	2.33	0.59
45:TJ:86:ARG:NH1	45:TJ:87:PRO:HD2	2.17	0.59
45:TL:68:LEU:HD23	45:TL:143:THR:OG1	2.03	0.59
45:TL:114:ASP:OD1	45:TL:115:SER:N	2.35	0.59
45:TL:324:LYS:HD3	44:TM:222:PRO:HG3	1.83	0.59
45:TN:317:PHE:HA	45:TN:365:VAL:HG22	1.84	0.59
44:UA:3:GLU:O	44:UA:133:GLN:N	2.31	0.59
45:UB:61:PRO:HD3	45:UB:84:LEU:HB3	1.84	0.59
45:UB:285:THR:HG23	45:UB:285:THR:O	2.03	0.59
45:UD:329:GLN:O	45:UD:333:VAL:HG23	2.02	0.59
44:UE:123:ARG:O	44:UE:126:ALA:N	2.36	0.59
45:UF:251:ARG:O	45:UF:255:VAL:HG23	2.02	0.59
44:UG:23:LEU:HD21	44:UG:233:GLN:HA	1.85	0.59
45:UH:46:ARG:NH2	44:UI:72:PRO:HB2	2.18	0.59
44:UI:256:GLN:HB2	44:UI:260:VAL:HG21	1.84	0.59
45:UJ:313:ALA:CB	45:UJ:349:ILE:HG23	2.33	0.59
45:UJ:334:GLN:HG3	45:UJ:341:PHE:CE1	2.37	0.59
44:UM:140:SER:OG	44:UM:143:GLY:HA3	2.02	0.59
45:UN:211:CYS:HA	45:UN:215:LEU:CD1	2.32	0.59
44:VA:404:PHE:CE1	45:VB:259:PRO:HA	2.38	0.59
44:VC:201:ALA:HB3	44:VC:267:PHE:CD1	2.37	0.59
45:VD:287:PRO:O	45:VD:290:THR:HG22	2.03	0.59
44:VE:62:VAL:HG13	44:VE:62:VAL:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:264:ARG:HD2	44:VE:265:ILE:HG13	1.85	0.59
44:VG:209:ILE:HA	44:VG:212:ILE:HB	1.84	0.59
45:VH:266:PHE:CD1	45:VH:370:ASN:HB2	2.38	0.59
44:VI:68:LEU:CD2	44:VI:118:CYS:HB2	2.33	0.59
44:VI:178:SER:HB2	45:VJ:347:ASN:ND2	2.18	0.59
45:VJ:317:PHE:HA	45:VJ:365:VAL:HG22	1.84	0.59
44:VM:75:ILE:HD11	44:VM:92:LEU:HB3	1.84	0.59
44:VM:136:LEU:CD2	44:VM:167:LEU:HB2	2.32	0.59
44:VM:268:MET:CE	44:VM:378:ILE:HG22	2.33	0.59
45:VN:217:LEU:HD12	45:VN:217:LEU:O	2.03	0.59
45:WD:11:GLN:O	45:WD:15:GLN:HG2	2.02	0.59
45:WD:20:PHE:O	45:WD:24:ILE:HD12	2.02	0.59
44:WE:350:GLY:C	45:WH:179:VAL:HG12	2.23	0.59
45:WF:105:HIS:NE2	45:WF:150:LEU:HD13	2.17	0.59
44:WG:141:VAL:HG11	44:WG:172:TYR:HD1	1.67	0.59
44:WG:254:GLU:HG2	45:WJ:98:GLY:CA	2.33	0.59
44:WG:274:PRO:HB3	44:WG:291:ILE:HD11	1.83	0.59
45:WJ:222:TYR:O	45:WJ:226:ASN:ND2	2.36	0.59
45:WJ:268:ILE:HA	45:WJ:367:PHE:O	2.02	0.59
44:WK:258:ASN:ND2	45:WN:179:VAL:HG22	2.17	0.59
45:WL:73:MET:O	45:WL:76:VAL:HG12	2.02	0.59
45:WL:146:GLY:O	45:WL:149:THR:HG22	2.03	0.59
44:WM:220:GLU:HB2	44:WM:221:ARG:NH1	2.11	0.59
45:WN:382:ALA:O	45:WN:386:THR:N	2.22	0.59
1:6H:295:GLN:OE1	45:FH:361:LEU:CA	2.51	0.59
8:0G:91:VAL:O	45:JN:284:LEU:HD11	2.02	0.59
8:0G:103:THR:HA	45:JN:355:ASP:OD2	2.01	0.59
8:0G:142:LYS:HE2	44:JM:84:ARG:NE	2.18	0.59
20:1J:142:VAL:HG21	44:IE:285:GLN:HG3	1.82	0.59
24:1O:242:LEU:HD13	45:UB:279:GLN:NE2	2.17	0.59
15:1V:24:ARG:HB3	44:MI:430:LYS:HB2	1.85	0.59
16:1X:6:GLU:OE2	45:MH:223:GLY:HA3	2.02	0.59
32:3I:243:LYS:HB2	44:GI:215:ARG:HH22	1.67	0.59
24:3O:395:PHE:CE1	45:TH:56:GLY:HA2	2.37	0.59
11:3Q:36:ARG:NH2	36:5S:204:ILE:HB	2.17	0.59
26:3R:93:VAL:HG21	44:AK:282:TYR:CE1	2.37	0.59
34:4F:169:PHE:HA	44:IM:82:THR:CA	2.26	0.59
37:5D:37:ASP:CG	44:KK:264:ARG:HB2	2.23	0.59
37:5D:46:ILE:HD13	45:KN:391:ARG:HH21	1.68	0.59
37:5D:108:ARG:HA	44:NM:280:LYS:C	2.23	0.59
38:5G:154:TYR:HB2	38:5H:14:ARG:HH22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5K:24:GLU:O	39:5K:28:LYS:N	2.34	0.59
11:5Q:84:LYS:O	11:5Q:85:LYS:HG3	2.02	0.59
35:5R:146:LYS:HE3	45:AL:75:SER:O	2.03	0.59
35:5R:311:LYS:HG3	35:5R:329:TYR:CE1	2.30	0.59
35:5R:441:LYS:O	35:5R:458:THR:HG22	2.03	0.59
35:5R:547:GLU:HG2	35:5R:551:LEU:CD1	2.33	0.59
41:6G:141:VAL:HG21	44:VG:308:ARG:HH22	1.67	0.59
35:6R:268:GLU:OE1	45:DN:279:GLN:HG2	2.02	0.59
35:6R:416:MET:CE	44:EM:372:MET:HG2	2.33	0.59
45:AF:299:MET:HA	45:AF:299:MET:CE	2.33	0.59
44:AG:81:GLY:O	44:AG:84:ARG:HG3	2.03	0.59
44:AG:210:TYR:HE2	45:AH:324:LYS:HA	1.67	0.59
44:AG:223:THR:HG23	44:AG:225:THR:H	1.66	0.59
44:AI:52:PHE:O	44:AI:64:ARG:HB2	2.03	0.59
45:AJ:67:ASP:OD1	45:AJ:68:LEU:N	2.35	0.59
44:AK:292:THR:HG21	44:AK:331:SER:HB3	1.85	0.59
44:AM:184:PRO:O	44:AM:187:SER:OG	2.16	0.59
44:BA:296:PHE:HE2	44:BA:335:ILE:HG21	1.67	0.59
44:BA:327:ASP:O	44:BA:331:SER:N	2.31	0.59
45:BF:272:PRO:HB3	45:BF:289:LEU:HD21	1.84	0.59
44:BG:178:SER:OG	45:BH:347:ASN:HB3	2.02	0.59
44:BG:398:MET:HE2	45:BH:345:ILE:HG13	1.83	0.59
45:BH:287:PRO:O	45:BH:290:THR:HG22	2.03	0.59
45:BH:302:ALA:HB3	45:BH:377:MET:CE	2.33	0.59
45:BJ:45:GLU:O	45:BJ:46:ARG:HD3	2.02	0.59
44:BK:268:MET:HG3	44:BK:378:ILE:CG2	2.33	0.59
45:BL:211:CYS:HA	45:BL:215:LEU:HD12	1.85	0.59
44:BM:36:MET:CE	44:BM:37:PRO:HD2	2.33	0.59
44:CA:182:VAL:C	44:CA:184:PRO:HD2	2.23	0.59
44:CA:346:TRP:CZ3	44:CA:347:CYS:HB2	2.38	0.59
45:CB:2:ARG:HB2	45:CB:131:GLN:OE1	2.03	0.59
45:CB:9:GLY:HA3	45:CB:66:MET:N	2.18	0.59
45:CB:97:ALA:HA	45:CB:103:LYS:HG2	1.85	0.59
45:CB:248:SER:HB2	45:CB:252:LYS:CB	2.33	0.59
44:CE:213:CYS:SG	44:CE:217:LEU:HD12	2.43	0.59
44:CG:8:HIS:HD2	44:CG:138:PHE:HB2	1.68	0.59
44:CG:194:LEU:HB2	44:CG:198:THR:OG1	2.02	0.59
45:CH:68:LEU:HD21	45:CH:147:MET:HE2	1.85	0.59
45:CJ:5:VAL:HG12	45:CJ:62:ARG:NH2	2.18	0.59
45:CL:226:ASN:ND2	48:CL:501:GDP:O6	2.32	0.59
45:CL:249:ASP:OD2	44:CM:98:ASP:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:253:LEU:HD11	45:CL:316:LEU:HD21	1.85	0.59
45:CL:350:LYS:HZ1	44:CM:180:ALA:HA	1.67	0.59
44:CM:184:PRO:O	44:CM:188:ILE:HD12	2.03	0.59
44:CM:246:GLY:HA2	44:CM:357:TYR:HD2	1.68	0.59
45:CN:72:THR:HG23	45:CN:73:MET:H	1.68	0.59
44:DA:30:ILE:HA	44:DA:36:MET:HE1	1.85	0.59
44:DC:216:ASN:O	44:DC:276:ILE:HA	2.03	0.59
45:DD:161:ASP:O	45:DD:162:ARG:NH2	2.36	0.59
44:DE:7:ILE:CD1	44:DE:122:ILE:HD12	2.32	0.59
45:DF:107:THR:CG2	45:DF:401:GLU:HB3	2.33	0.59
45:DF:315:ALA:C	45:DF:316:LEU:HD12	2.23	0.59
44:DG:296:PHE:CE2	44:DG:335:ILE:HG21	2.38	0.59
45:DH:100:ASN:OD1	45:DH:103:LYS:HB2	2.01	0.59
44:DI:203:MET:HA	44:DI:203:MET:CE	2.33	0.59
44:DK:315:CYS:SG	44:DK:379:SER:OG	2.52	0.59
45:DL:375:GLN:O	45:DL:379:LYS:HD2	2.01	0.59
44:DM:413:MET:CG	44:DM:417:GLU:HG3	2.32	0.59
44:DM:434:GLU:O	44:DM:437:ILE:HG12	2.03	0.59
45:DN:32:PRO:HG3	45:DN:81:PHE:CE1	2.38	0.59
45:ED:141:GLY:HA3	48:ED:501:GDP:O3A	2.02	0.59
45:ED:172:SER:OG	45:ED:205:GLU:HB2	2.03	0.59
44:EE:200:VAL:HG21	44:EE:256:GLN:HB3	1.84	0.59
44:EE:269:LEU:H	44:EE:269:LEU:HD23	1.68	0.59
45:EF:11:GLN:HA	45:EF:14:ASN:HB2	1.85	0.59
45:EF:102:ALA:HA	45:EF:403:MET:CE	2.32	0.59
45:EF:252:LYS:HG2	45:EF:350:LYS:CE	2.32	0.59
45:EF:420:SER:O	45:EF:423:GLN:HG3	2.02	0.59
44:EG:13:GLY:HA2	44:EG:16:VAL:CG2	2.33	0.59
44:EG:141:VAL:HG12	44:EG:187:SER:HA	1.84	0.59
44:EG:144:GLY:O	44:EG:147:SER:N	2.30	0.59
45:EH:28:HIS:CE1	45:EH:241:ARG:HD2	2.37	0.59
44:EI:348:PRO:HB2	45:EJ:384:GLN:OE1	2.03	0.59
45:EJ:54:ALA:HB2	45:FJ:283:ALA:HB2	1.85	0.59
44:EK:62:VAL:HG21	44:FI:283:HIS:O	2.02	0.59
44:EM:225:THR:HA	44:EM:228:ASN:HD22	1.68	0.59
44:EM:408:TYR:O	44:EM:413:MET:HB3	2.03	0.59
45:FB:42:LEU:CA	45:FB:45:GLU:HG3	2.28	0.59
45:FB:299:MET:CE	45:FB:301:CYS:HB2	2.29	0.59
45:FB:311:LEU:HB2	45:FB:370:ASN:O	2.03	0.59
44:FC:107:HIS:CE1	44:FC:152:LEU:HB2	2.38	0.59
44:FC:386:GLU:O	44:FC:390:ARG:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FF:284:LEU:HB3	45:FF:363:MET:CE	2.33	0.59
44:FG:19:ALA:HA	44:FG:22:GLU:OE1	2.03	0.59
45:FH:147:MET:SD	45:FH:148:GLY:N	2.76	0.59
45:FH:378:PHE:CA	45:FH:381:VAL:HG12	2.31	0.59
44:FI:205:ASP:OD1	44:FI:303:ALA:HA	2.02	0.59
44:FI:269:LEU:H	44:FI:269:LEU:HD23	1.67	0.59
44:FI:275:ILE:HG23	44:FI:368:LEU:HD13	1.85	0.59
45:FJ:165:GLU:OE2	45:FJ:250:LEU:HD21	2.02	0.59
44:FM:137:VAL:O	44:FM:168:GLY:HA2	2.02	0.59
44:FM:181:VAL:HG12	45:FN:347:ASN:O	2.02	0.59
45:FN:72:THR:O	45:FN:76:VAL:N	2.35	0.59
45:FN:389:PHE:CE1	45:FN:395:LEU:HD22	2.37	0.59
45:GH:302:ALA:HB3	45:GH:377:MET:HE1	1.83	0.59
44:GI:174:SER:HA	44:GI:304:LYS:NZ	2.17	0.59
44:GI:191:THR:HG22	44:GI:195:LEU:HD11	1.84	0.59
45:GJ:67:ASP:OD1	45:GJ:68:LEU:N	2.36	0.59
44:GK:101:ASN:HA	44:GK:144:GLY:H	1.68	0.59
44:GK:269:LEU:HG	44:GK:379:SER:OG	2.03	0.59
44:GM:79:ARG:O	44:GM:84:ARG:HB3	2.02	0.59
44:GM:172:TYR:HH	44:GM:267:PHE:HE2	1.50	0.59
45:GN:272:PRO:HG3	45:GN:284:LEU:CD2	2.33	0.59
44:HA:256:GLN:HA	44:HA:259:LEU:HB2	1.83	0.59
44:HA:297:GLU:OE1	44:HA:299:ALA:N	2.36	0.59
44:HC:132:LEU:HB3	44:HC:164:LYS:NZ	2.18	0.59
44:HC:259:LEU:O	44:HC:380:ASN:ND2	2.36	0.59
44:HE:332:ILE:HD12	44:HE:351:PHE:CE2	2.38	0.59
44:HG:288:VAL:CA	44:HG:291:ILE:HG12	2.33	0.59
44:HK:102:ASN:CG	44:HK:105:ARG:HG3	2.23	0.59
44:HK:286:LEU:CD1	44:HK:291:ILE:HG22	2.32	0.59
45:HL:214:THR:O	45:HL:216:LYS:HG3	2.03	0.59
44:HM:34:GLY:O	44:HM:60:LYS:HA	2.01	0.59
44:HM:287:SER:HB3	44:HM:290:GLU:CG	2.32	0.59
45:HN:67:ASP:OD1	45:HN:68:LEU:N	2.34	0.59
45:HN:139:LEU:CD2	45:HN:145:SER:HB2	2.33	0.59
44:IA:182:VAL:HG11	45:IB:255:VAL:HG12	1.84	0.59
45:IB:21:TRP:CZ3	45:IB:61:PRO:HB3	2.37	0.59
45:ID:186:THR:HG21	45:ID:385:PHE:CD1	2.38	0.59
44:IE:407:TRP:HH2	45:IF:254:ALA:HB1	1.68	0.59
45:IF:187:LEU:HD21	45:IF:408:PHE:CE1	2.38	0.59
45:IF:192:LEU:HD21	45:IF:199:CYS:SG	2.43	0.59
45:IF:206:ALA:O	45:IF:210:ILE:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IF:304:ASP:HB3	45:IF:307:HIS:CD2	2.38	0.59
44:II:63:PRO:CG	44:II:86:LEU:HG	2.33	0.59
44:II:230:LEU:HD11	44:II:275:ILE:CD1	2.33	0.59
44:II:396:ASP:OD1	44:II:422:ARG:NH1	2.36	0.59
44:IK:88:HIS:HB3	44:IK:91:GLN:HG2	1.84	0.59
44:IM:230:LEU:HD22	44:IM:368:LEU:HD21	1.85	0.59
44:IM:275:ILE:HD12	44:IM:368:LEU:CD1	2.33	0.59
45:IN:211:CYS:SG	45:IN:217:LEU:HD21	2.42	0.59
44:JA:404:PHE:CD2	45:JB:259:PRO:HA	2.38	0.59
45:JF:156:ARG:HD2	45:JF:195:ASN:O	2.02	0.59
45:JF:263:LEU:HD22	45:JF:422:TYR:HD1	1.65	0.59
44:JG:269:LEU:HD12	44:JG:301:MET:HE2	1.83	0.59
44:JG:271:SER:HA	44:JG:302:MET:CG	2.33	0.59
44:JG:352:LYS:NZ	45:JJ:178:THR:OG1	2.36	0.59
44:JI:10:GLY:O	44:JI:13:GLY:N	2.36	0.59
44:JI:177:VAL:CG2	45:JJ:327:ASP:HB3	2.32	0.59
44:JI:210:TYR:CE2	45:JJ:324:LYS:HA	2.37	0.59
44:JK:261:PRO:HB2	44:JK:262:TYR:HD1	1.67	0.59
45:JL:214:THR:O	45:JL:275:SER:HB3	2.03	0.59
44:JM:215:ARG:HH22	44:JM:300:ASN:ND2	1.99	0.59
45:JN:14:ASN:HD22	45:JN:73:MET:CE	2.16	0.59
44:KA:11:GLN:H	46:KA:501:GTP:PB	2.26	0.59
44:KA:406:HIS:CD2	45:KB:261:PRO:HD3	2.37	0.59
45:KB:197:ASP:O	45:KB:264:HIS:HB2	2.03	0.59
44:KC:88:HIS:HB3	44:KC:91:GLN:HB3	1.85	0.59
44:KI:203:MET:HE2	44:KI:387:VAL:HG21	1.83	0.59
45:KJ:1:MET:O	45:KJ:2:ARG:HG2	2.02	0.59
45:KN:383:GLU:O	45:KN:386:THR:HG22	2.02	0.59
44:LC:115:VAL:HG21	44:LC:152:LEU:CD2	2.33	0.59
44:LC:320:ARG:HD3	44:LC:360:PRO:CD	2.33	0.59
44:LG:161:TYR:HB3	44:LG:164:LYS:HZ3	1.67	0.59
44:LI:291:ILE:HD12	44:LI:375:VAL:HG13	1.84	0.59
45:LJ:54:ALA:HA	45:MJ:283:ALA:HB2	1.85	0.59
45:LJ:258:ILE:HG23	45:LJ:263:LEU:O	2.03	0.59
45:LN:257:LEU:HD11	45:LN:313:ALA:HA	1.85	0.59
45:LN:260:PHE:HB3	45:LN:261:PRO:HD2	1.84	0.59
45:LN:318:ARG:CG	45:LN:358:PRO:HD3	2.32	0.59
45:LN:330:MET:SD	45:LN:349:ILE:HG21	2.43	0.59
44:MA:393:HIS:NE2	44:MA:397:LEU:HD21	2.18	0.59
45:MB:62:ARG:HG3	45:MB:123:GLU:OE2	2.03	0.59
45:MD:69:GLU:OE1	45:MD:71:GLY:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:238:LEU:HG	44:ME:255:PHE:HE2	1.68	0.59
44:ME:239:THR:HG22	44:ME:239:THR:O	2.02	0.59
45:MF:167:PHE:CD2	45:MF:233:MET:HG2	2.38	0.59
44:MG:161:TYR:O	44:MG:164:LYS:NZ	2.36	0.59
44:MG:268:MET:HB2	44:MG:379:SER:C	2.24	0.59
44:MG:315:CYS:SG	44:MG:379:SER:HB3	2.43	0.59
44:MG:384:ILE:O	44:MG:387:VAL:HG22	2.03	0.59
44:MI:88:HIS:CE1	44:MI:90:GLU:HG2	2.38	0.59
44:MI:153:LEU:O	44:MI:157:LEU:HD23	2.02	0.59
44:MI:269:LEU:HD21	44:MI:384:ILE:HD13	1.85	0.59
45:MJ:172:SER:CB	45:MJ:205:GLU:HB2	2.33	0.59
44:MK:247:ALA:HB3	44:MK:355:ILE:CD1	2.33	0.59
44:MK:258:ASN:CG	45:MN:179:VAL:HG22	2.22	0.59
45:ML:130:LEU:HD21	45:ML:133:PHE:CE1	2.38	0.59
44:MM:13:GLY:HA2	44:MM:16:VAL:CG2	2.32	0.59
45:MN:1:MET:O	45:MN:2:ARG:HG2	2.03	0.59
44:NA:265:ILE:HG12	44:NA:432:TYR:HE1	1.68	0.59
44:NA:387:VAL:HG23	44:NA:388:PHE:H	1.68	0.59
44:NA:388:PHE:O	44:NA:392:ASP:N	2.36	0.59
45:NB:118:ASP:O	45:NB:122:LYS:HG2	2.03	0.59
44:NC:88:HIS:HB3	44:NC:91:GLN:HG2	1.85	0.59
44:NC:221:ARG:HH22	45:ND:321:MET:HB2	1.68	0.59
45:NF:16:ILE:HD11	45:NF:136:THR:OG1	2.02	0.59
45:NF:136:THR:HG22	45:NF:167:PHE:CB	2.26	0.59
44:NG:305:CYS:O	44:NG:307:PRO:HD3	2.02	0.59
45:NH:116:VAL:O	45:NH:120:VAL:HG12	2.03	0.59
45:NH:148:GLY:O	45:NH:152:ILE:HD12	2.02	0.59
44:NI:205:ASP:OD1	44:NI:303:ALA:HA	2.03	0.59
44:NK:227:LEU:O	44:NK:230:LEU:HB2	2.03	0.59
44:NM:122:ILE:O	44:NM:126:ALA:N	2.23	0.59
45:NN:86:ARG:NE	45:NN:87:PRO:HD2	2.18	0.59
45:NN:309:ARG:O	45:NN:372:THR:OG1	2.17	0.59
45:OB:215:LEU:CD2	45:OB:217:LEU:HB3	2.32	0.59
45:OD:9:GLY:HA3	45:OD:66:MET:SD	2.43	0.59
44:OE:334:THR:O	44:OE:337:THR:OG1	2.18	0.59
44:OG:209:ILE:HG13	44:OG:302:MET:CE	2.33	0.59
44:OG:289:ALA:O	44:OG:293:ASN:HB2	2.03	0.59
45:OH:214:THR:HG21	45:OH:273:LEU:HD23	1.85	0.59
44:OI:152:LEU:O	44:OI:156:ARG:HG2	2.02	0.59
44:OI:287:SER:O	44:OI:291:ILE:HG23	2.01	0.59
44:OI:372:MET:O	44:OI:373:ARG:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:284:LEU:HD23	45:OJ:362:LYS:HB2	1.85	0.59
44:OK:71:GLU:OE1	44:OK:73:THR:OG1	2.17	0.59
45:OL:137:HIS:NE2	45:OL:192:LEU:HD11	2.17	0.59
44:PA:324:VAL:CG1	44:PA:325:PRO:HD2	2.32	0.59
45:PB:169:VAL:HA	45:PB:202:ILE:O	2.03	0.59
44:PC:200:VAL:HG13	44:PC:268:MET:SD	2.43	0.59
45:PD:135:ILE:HG13	45:PD:152:ILE:CD1	2.32	0.59
45:PD:256:ASN:HB3	45:PD:350:LYS:HD2	1.85	0.59
45:PD:377:MET:O	45:PD:380:ARG:HG2	2.02	0.59
45:PF:4:ILE:HG22	45:PF:5:VAL:H	1.66	0.59
45:PF:133:PHE:HB2	45:PF:164:MET:HE1	1.84	0.59
44:PG:206:ASN:HA	44:PG:209:ILE:HD12	1.85	0.59
45:PH:257:LEU:HD11	45:PH:314:SER:HB2	1.85	0.59
44:PK:82:THR:HG23	44:PK:83:TYR:CD1	2.38	0.59
44:PK:292:THR:HG21	44:PK:331:SER:CB	2.32	0.59
44:PM:91:GLN:HG3	44:PM:92:LEU:HD12	1.84	0.59
45:PN:179:VAL:O	45:PN:182:PRO:HD2	2.02	0.59
44:QA:248:LEU:HB3	44:QA:355:ILE:H	1.68	0.59
45:QB:203:ASP:O	45:QB:207:LEU:HG	2.02	0.59
45:QB:268:ILE:CG2	45:QB:368:VAL:HG22	2.33	0.59
45:QB:318:ARG:HH11	45:QB:358:PRO:HG3	1.65	0.59
44:QC:2:ARG:HA	44:QC:133:GLN:NE2	2.18	0.59
45:QD:4:ILE:HG22	45:QD:132:GLY:N	2.18	0.59
45:QD:216:LYS:HG3	45:QD:275:SER:HB3	1.85	0.59
45:QD:330:MET:HA	45:QD:333:VAL:HG12	1.84	0.59
44:QG:1:MET:HE3	45:QH:94:GLN:HG2	1.85	0.59
44:QI:153:LEU:O	44:QI:157:LEU:HD23	2.02	0.59
44:QI:291:ILE:HD12	44:QI:375:VAL:CG1	2.32	0.59
45:QJ:304:ASP:OD1	45:QJ:306:ARG:HG2	2.03	0.59
44:QK:284:GLU:CG	44:QK:286:LEU:HD22	2.33	0.59
45:QL:302:ALA:HB3	45:QL:377:MET:SD	2.43	0.59
45:QN:183:TYR:OH	45:QN:388:MET:O	2.21	0.59
45:QN:272:PRO:HD3	45:QN:289:LEU:CD2	2.32	0.59
44:RA:172:TYR:OH	44:RA:191:THR:HG22	2.03	0.59
44:RA:258:ASN:ND2	44:RA:352:LYS:HD3	2.17	0.59
44:RA:333:ALA:O	44:RA:336:LYS:HG2	2.03	0.59
45:RB:139:LEU:HD22	45:RB:170:VAL:HG12	1.85	0.59
45:RD:163:ILE:HD13	45:RD:250:LEU:HB2	1.84	0.59
45:RD:204:ASN:HA	45:RD:207:LEU:CD1	2.32	0.59
44:RE:11:GLN:CG	44:RE:74:VAL:HG11	2.31	0.59
44:RE:52:PHE:HZ	44:RE:239:THR:HG21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:211:CYS:SG	45:RF:217:LEU:HD21	2.43	0.59
44:RG:16:VAL:O	44:RG:20:CYS:N	2.33	0.59
44:RG:206:ASN:HA	44:RG:209:ILE:HD12	1.84	0.59
45:RH:207:LEU:HD13	45:RH:225:LEU:HB3	1.84	0.59
45:RJ:189:VAL:O	45:RJ:192:LEU:N	2.36	0.59
45:RL:318:ARG:HD3	45:RL:358:PRO:CD	2.32	0.59
44:RM:118:CYS:CA	44:RM:121:ARG:HB2	2.32	0.59
44:RM:139:ASN:HB2	44:RM:146:GLY:O	2.02	0.59
44:SA:291:ILE:HD12	44:SA:375:VAL:HG13	1.84	0.59
45:SB:290:THR:HG21	45:SB:329:GLN:CD	2.23	0.59
45:SB:309:ARG:HA	45:SB:340:TYR:O	2.02	0.59
44:SC:219:ILE:HB	44:SC:220:GLU:CD	2.23	0.59
44:SC:244:PHE:CE2	44:SC:358:GLN:HG2	2.37	0.59
44:SE:320:ARG:CG	44:SE:374:ALA:HB3	2.32	0.59
45:SF:139:LEU:HD22	45:SF:170:VAL:CG1	2.31	0.59
45:SF:252:LYS:HG2	45:SF:350:LYS:HE2	1.84	0.59
44:SI:19:ALA:HB3	44:SI:228:ASN:OD1	2.02	0.59
44:SI:175:PRO:HB2	44:SI:176:GLN:OE1	2.03	0.59
45:SJ:26:ASP:O	45:SJ:359:LYS:HD3	2.03	0.59
45:SJ:46:ARG:NH2	44:SK:76:ASP:OD2	2.36	0.59
44:SK:328:VAL:O	44:SK:332:ILE:HG12	2.03	0.59
45:SL:47:ILE:HG21	45:SL:59:TYR:CE1	2.37	0.59
45:SL:86:ARG:HB2	45:SL:89:ASN:OD1	2.03	0.59
45:SL:187:LEU:HD11	45:SL:408:PHE:CZ	2.38	0.59
45:SL:320:ARG:HG2	45:SL:355:ASP:HB3	1.85	0.59
44:SM:241:SER:HB2	44:SM:249:ASN:HA	1.84	0.59
45:SN:102:ALA:HB2	45:SN:403:MET:CE	2.32	0.59
45:SN:253:LEU:O	45:SN:257:LEU:HB2	2.03	0.59
44:TA:8:HIS:CD2	44:TA:138:PHE:HB2	2.26	0.59
44:TA:247:ALA:HB2	44:TA:357:TYR:CE1	2.38	0.59
44:TA:304:LYS:HG3	44:TA:387:VAL:CG1	2.32	0.59
45:TB:42:LEU:HA	45:TB:45:GLU:CG	2.24	0.59
44:TG:291:ILE:O	44:TG:294:SER:N	2.35	0.59
45:TH:139:LEU:HG	45:TH:188:SER:CB	2.33	0.59
45:TH:203:ASP:OD2	45:TH:301:CYS:HA	2.02	0.59
44:TI:280:LYS:HD3	44:TI:283:HIS:ND1	2.17	0.59
45:TJ:156:ARG:NH1	45:TJ:162:ARG:O	2.36	0.59
45:TJ:215:LEU:O	45:TJ:275:SER:HB2	2.02	0.59
45:TL:232:ALA:HB1	45:TL:268:ILE:HD12	1.83	0.59
44:UA:288:VAL:HB	44:UA:327:ASP:OD2	2.03	0.59
45:UB:290:THR:OG1	45:UB:333:VAL:HG21	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:258:ASN:ND2	45:UD:179:VAL:HG22	2.18	0.59
45:UD:8:GLN:HE21	45:UD:65:LEU:CA	2.15	0.59
44:UE:141:VAL:HG11	44:UE:172:TYR:HD1	1.68	0.59
44:UE:183:GLU:N	44:UE:184:PRO:HD2	2.18	0.59
44:UE:318:MET:SD	44:UE:354:GLY:HA3	2.43	0.59
45:UF:163:ILE:HD12	45:UF:250:LEU:HD11	1.84	0.59
45:UF:319:GLY:CA	45:UF:357:PRO:HB3	2.33	0.59
45:UF:371:SER:O	45:UF:374:ILE:HG23	2.02	0.59
44:UG:272:TYR:N	44:UG:302:MET:HE1	2.17	0.59
45:UH:97:ALA:CB	45:UH:143:THR:HB	2.33	0.59
44:UI:79:ARG:O	44:UI:84:ARG:HB3	2.03	0.59
44:UI:417:GLU:O	44:UI:420:GLU:HG2	2.03	0.59
45:UJ:49:VAL:HG11	45:UJ:241:ARG:HG2	1.85	0.59
45:UJ:134:GLN:HA	45:UJ:165:GLU:CB	2.32	0.59
45:UL:105:HIS:O	45:UL:150:LEU:HD21	2.02	0.59
44:UM:256:GLN:HB2	44:UM:260:VAL:HG21	1.85	0.59
44:VA:69:ASP:O	44:VA:95:GLY:N	2.26	0.59
45:VB:268:ILE:HG13	45:VB:300:MET:CE	2.33	0.59
45:VB:317:PHE:HA	45:VB:365:VAL:HG12	1.85	0.59
44:VG:267:PHE:O	44:VG:384:ILE:HD13	2.03	0.59
44:VI:141:VAL:HG11	44:VI:172:TYR:HD1	1.66	0.59
44:VI:276:ILE:HG23	44:VI:281:ALA:HB2	1.85	0.59
45:VJ:114:ASP:O	45:VJ:117:LEU:HG	2.02	0.59
45:VJ:231:ALA:O	45:VJ:235:GLY:N	2.24	0.59
44:VK:236:SER:HA	44:VK:239:THR:OG1	2.02	0.59
44:VM:320:ARG:HB2	44:VM:358:GLN:O	2.03	0.59
44:WA:122:ILE:HA	44:WA:125:LEU:HD12	1.85	0.59
44:WE:115:VAL:CG2	44:WE:156:ARG:HD2	2.32	0.59
45:WH:141:GLY:HA3	48:WH:501:GDP:O3A	2.02	0.59
44:WI:240:ALA:HA	44:WI:243:ARG:CZ	2.32	0.59
44:WK:325:PRO:HG3	44:WK:355:ILE:HD13	1.84	0.59
45:WL:105:HIS:ND1	45:WL:150:LEU:HB2	2.18	0.59
44:WM:100:ALA:O	45:WN:255:VAL:HG21	2.03	0.59
11:0Q:17:ILE:HG21	45:WB:125:GLU:CD	2.24	0.58
12:0S:104:THR:HG21	45:MB:163:ILE:HD13	1.85	0.58
21:1K:212:ARG:HG2	44:GA:282:TYR:CZ	2.38	0.58
21:2K:245:TRP:HZ3	45:GN:276:ARG:HD2	1.66	0.58
22:2L:526:ARG:HD3	45:BN:362:LYS:NZ	2.18	0.58
26:2R:9:PRO:HG2	45:MJ:273:LEU:HD21	1.85	0.58
26:2R:114:SER:HB2	45:BJ:360:GLY:HA3	1.83	0.58
16:2X:6:GLU:OE2	45:ML:223:GLY:HA3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:3C:228:ALA:HB2	45:KB:285:THR:HG21	1.84	0.58
34:4F:119:VAL:HG22	45:IL:359:LYS:HG3	1.84	0.58
31:4H:180:ILE:HG23	45:AL:224:ASP:OD1	2.03	0.58
38:5H:120:GLU:O	38:5H:121:GLU:HG3	2.02	0.58
38:5H:123:ARG:CD	44:OM:370:LYS:HE2	2.31	0.58
39:5I:143:LYS:O	39:5I:147:GLU:HG2	2.02	0.58
39:5J:42:ASN:HB3	39:5J:43:PRO:CD	2.29	0.58
40:6F:17:PHE:HD1	45:IF:53:GLU:CG	2.15	0.58
40:6F:111:SER:HB2	45:IH:83:GLN:NE2	2.17	0.58
40:6F:130:SER:HB2	45:IH:359:LYS:HZ1	1.67	0.58
41:6G:83:GLU:HG3	41:6G:84:VAL:H	1.67	0.58
35:6R:319:PRO:CG	45:CN:228:LEU:HD23	2.33	0.58
35:7R:278:TYR:OH	35:7R:329:TYR:O	2.20	0.58
42:8L:11:UNK:HA	42:8L:14:UNK:CB	2.33	0.58
44:AA:210:TYR:HE1	44:AA:227:LEU:HD11	1.67	0.58
45:AB:184:ASN:OD1	45:AB:185:ALA:N	2.36	0.58
44:AE:250:VAL:HG11	44:AE:318:MET:CE	2.33	0.58
44:AE:250:VAL:HG11	44:AE:318:MET:HE1	1.85	0.58
45:AF:237:THR:HG23	45:AF:241:ARG:HH12	1.68	0.58
44:AK:258:ASN:HD22	44:AK:352:LYS:HB2	1.66	0.58
44:AM:135:PHE:CD2	44:AM:166:LYS:HG2	2.38	0.58
45:AN:286:VAL:HG21	45:AN:325:GLU:OE1	2.02	0.58
44:BA:217:LEU:HB3	44:BA:219:ILE:HG13	1.84	0.58
44:BC:171:ILE:HD13	46:BC:501:GTP:HN22	1.68	0.58
44:BE:71:GLU:OE1	44:BE:73:THR:HB	2.03	0.58
44:BE:254:GLU:HG2	45:BH:98:GLY:CA	2.29	0.58
45:BF:239:CYS:SG	45:BF:247:ASN:HA	2.42	0.58
45:BH:372:THR:HA	45:BH:422:TYR:HE1	1.68	0.58
44:BM:261:PRO:HD2	44:BM:265:ILE:CG2	2.32	0.58
44:BM:295:ALA:HB1	44:BM:377:MET:CE	2.33	0.58
44:CA:114:ILE:HA	44:CA:117:LEU:CD1	2.33	0.58
45:CB:4:ILE:HG23	45:CB:131:GLN:HB3	1.83	0.58
45:CB:396:HIS:HA	45:CB:399:THR:OG1	2.03	0.58
44:CE:46:ASP:OD2	44:CE:47:ASP:N	2.35	0.58
45:CF:100:ASN:ND2	45:CF:401:GLU:OE2	2.36	0.58
45:CF:114:ASP:OD1	45:CF:115:SER:N	2.35	0.58
45:CF:255:VAL:HG22	44:CG:407:TRP:CZ3	2.38	0.58
45:CF:302:ALA:HB3	45:CF:377:MET:CE	2.33	0.58
44:CG:324:VAL:HG23	44:CG:327:ASP:HB2	1.84	0.58
45:CH:260:PHE:HA	44:CI:406:HIS:CE1	2.38	0.58
44:CI:237:SER:HA	44:CI:320:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:193:VAL:HG12	45:CJ:264:HIS:HE1	1.68	0.58
44:CK:348:PRO:CB	45:CL:384:GLN:HG2	2.33	0.58
45:CL:251:ARG:HA	45:CL:254:ALA:CB	2.28	0.58
45:CL:325:GLU:HG2	45:CL:329:GLN:HE22	1.68	0.58
45:CL:376:GLU:HA	45:CL:379:LYS:NZ	2.18	0.58
45:CN:72:THR:HG23	45:CN:73:MET:N	2.17	0.58
44:DA:176:GLN:HG2	44:DA:177:VAL:HG13	1.83	0.58
44:DC:215:ARG:CZ	44:DC:299:ALA:HB1	2.32	0.58
44:DE:402:ARG:HB3	44:DE:405:VAL:HG21	1.84	0.58
45:DF:24:ILE:HD11	45:DF:234:SER:HB2	1.84	0.58
45:DF:267:MET:HG2	45:DF:369:GLY:O	2.03	0.58
45:DJ:7:ILE:CG1	45:DJ:64:ILE:HD12	2.33	0.58
45:DJ:83:GLN:OE1	45:DJ:83:GLN:HA	2.02	0.58
45:DJ:205:GLU:OE2	45:DJ:302:ALA:HB2	2.03	0.58
44:DM:11:GLN:OE1	44:DM:11:GLN:N	2.36	0.58
45:EB:15:GLN:HG3	48:EB:501:GDP:O6	2.02	0.58
45:EB:395:LEU:HD12	45:EB:398:TYR:CB	2.32	0.58
44:EC:154:LEU:HD13	44:EC:197:HIS:HB3	1.84	0.58
44:EC:271:SER:OG	44:EC:301:MET:HA	2.03	0.58
44:EC:319:TYR:HB2	44:EC:355:ILE:HA	1.85	0.58
44:EE:223:THR:HG23	44:EE:225:THR:H	1.66	0.58
44:EE:275:ILE:HA	44:EE:368:LEU:CD1	2.33	0.58
44:EE:346:TRP:CZ3	44:EE:347:CYS:HB2	2.37	0.58
45:EF:72:THR:HG23	45:EF:73:MET:H	1.67	0.58
44:EG:7:ILE:HD11	44:EG:135:PHE:CD1	2.31	0.58
44:EG:325:PRO:HG2	45:EH:222:TYR:CE1	2.38	0.58
45:EH:251:ARG:O	45:EH:255:VAL:HG23	2.03	0.58
44:EI:329:ASN:ND2	45:EJ:175:VAL:HG12	2.18	0.58
44:EK:192:HIS:ND1	44:EK:424:ASP:OD2	2.25	0.58
44:EK:332:ILE:HD12	44:EK:351:PHE:CD2	2.37	0.58
44:EK:432:TYR:HA	44:EK:435:VAL:HG12	1.85	0.58
45:EN:242:PHE:CD1	45:EN:356:ILE:HG13	2.38	0.58
44:FA:209:ILE:HB	44:FA:227:LEU:HD22	1.85	0.58
44:FA:352:LYS:HD2	45:FD:177:ASP:O	2.03	0.58
45:FB:114:ASP:OD1	45:FB:115:SER:N	2.36	0.58
44:FC:285:GLN:NE2	44:FC:287:SER:HB2	2.18	0.58
44:FC:325:PRO:O	44:FC:328:VAL:HB	2.03	0.58
44:FI:200:VAL:HG13	44:FI:268:MET:HE1	1.85	0.58
44:FI:416:GLY:O	44:FI:419:SER:N	2.36	0.58
45:FL:258:ILE:HG13	45:FL:266:PHE:HZ	1.68	0.58
45:FL:312:THR:HG22	45:FL:370:ASN:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:115:VAL:HG21	44:FM:156:ARG:HE	1.68	0.58
44:FM:135:PHE:HB2	44:FM:166:LYS:HG2	1.85	0.58
45:FN:289:LEU:HB3	45:FN:365:VAL:CG2	2.27	0.58
45:FN:318:ARG:HD3	45:FN:358:PRO:HG3	1.85	0.58
44:GA:69:ASP:OD1	44:GA:70:LEU:N	2.34	0.58
44:GC:262:TYR:HB2	44:GC:265:ILE:HG22	1.84	0.58
45:GD:73:MET:HB3	45:GD:90:PHE:CE1	2.38	0.58
45:GD:278:SER:OG	45:GD:281:TYR:HB2	2.03	0.58
45:GD:285:THR:HB	45:GD:287:PRO:HD2	1.84	0.58
44:GG:5:ILE:HD12	44:GG:132:LEU:HD11	1.84	0.58
44:GG:5:ILE:HD12	44:GG:132:LEU:CD1	2.33	0.58
44:GK:276:ILE:O	44:GK:281:ALA:HB2	2.03	0.58
45:GL:317:PHE:HA	45:GL:365:VAL:HG22	1.85	0.58
44:GM:135:PHE:HB2	44:GM:166:LYS:HG2	1.84	0.58
44:GM:175:PRO:HD2	44:GM:207:GLU:OE1	2.03	0.58
44:GM:203:MET:HE2	44:GM:269:LEU:HB3	1.84	0.58
44:GM:259:LEU:HD11	44:GM:316:SER:CB	2.32	0.58
45:GN:200:MET:HE1	45:GN:266:PHE:HB2	1.83	0.58
45:HB:201:VAL:HG23	45:HB:301:CYS:SG	2.43	0.58
44:HC:73:THR:HA	45:HD:46:ARG:HH22	1.67	0.58
44:HE:212:ILE:HD11	44:HE:300:ASN:HA	1.84	0.58
44:HE:291:ILE:HG13	44:HE:292:THR:N	2.18	0.58
45:HF:97:ALA:CB	45:HF:143:THR:HB	2.33	0.58
45:HH:303:ALA:H	45:HH:377:MET:CE	2.13	0.58
44:HI:137:VAL:HG12	44:HI:167:LEU:O	2.02	0.58
44:HI:221:ARG:O	44:HI:221:ARG:HG3	2.03	0.58
44:HI:223:THR:OG1	45:HJ:323:THR:HG23	2.03	0.58
45:HJ:117:LEU:HG	45:HJ:121:ARG:NH2	2.18	0.58
44:HK:71:GLU:OE2	45:HL:2:ARG:NH2	2.36	0.58
44:HK:73:THR:HA	45:HL:46:ARG:NH2	2.08	0.58
45:HL:16:ILE:HD13	45:HL:226:ASN:OD1	2.03	0.58
45:HL:22:GLU:HG2	45:HL:81:PHE:HD2	1.68	0.58
45:HL:73:MET:HA	45:HL:76:VAL:HG12	1.85	0.58
44:HM:313:MET:HE3	44:HM:382:THR:HG22	1.85	0.58
44:IA:101:ASN:HA	44:IA:144:GLY:H	1.68	0.58
45:IB:112:LEU:O	45:IB:112:LEU:HD23	2.03	0.58
45:IB:344:TRP:CE3	45:IB:345:ILE:HB	2.38	0.58
45:ID:7:ILE:CG2	45:ID:135:ILE:HD13	2.33	0.58
45:ID:66:MET:HE3	45:ID:147:MET:HB3	1.84	0.58
45:ID:267:MET:HE2	45:ID:301:CYS:HB2	1.84	0.58
45:IF:46:ARG:O	45:IF:49:VAL:HG12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:22:GLU:HA	44:IG:25:CYS:SG	2.42	0.58
45:IH:164:MET:SD	45:IH:197:ASP:N	2.76	0.58
45:IH:173:PRO:CG	45:IH:380:ARG:HD3	2.32	0.58
44:II:332:ILE:O	44:II:335:ILE:HG22	2.02	0.58
44:IK:207:GLU:O	44:IK:210:TYR:HB2	2.03	0.58
44:IK:259:LEU:HD21	44:IK:316:SER:HB2	1.84	0.58
44:IM:5:ILE:HG23	44:IM:64:ARG:O	2.03	0.58
44:IM:192:HIS:CE1	44:IM:420:GLU:HG3	2.38	0.58
45:IN:5:VAL:HG22	45:IN:133:PHE:CD1	2.38	0.58
45:IN:67:ASP:OD1	45:IN:68:LEU:N	2.36	0.58
45:IN:262:ARG:NH1	45:IN:421:GLU:OE1	2.36	0.58
45:JB:169:VAL:HG22	45:JB:202:ILE:HG23	1.85	0.58
45:JB:273:LEU:HB2	45:JB:292:GLN:OE1	2.03	0.58
44:JC:30:ILE:CG1	44:JC:36:MET:HB2	2.33	0.58
44:JC:209:ILE:HG21	44:JC:227:LEU:HG	1.85	0.58
45:JD:267:MET:HE2	45:JD:301:CYS:CB	2.33	0.58
45:JD:403:MET:HA	45:JD:403:MET:CE	2.33	0.58
44:JE:22:GLU:HG3	44:JE:83:TYR:OH	2.03	0.58
44:JE:73:THR:HG21	45:JF:247:ASN:ND2	2.18	0.58
45:JF:114:ASP:OD1	45:JF:115:SER:N	2.36	0.58
44:JG:107:HIS:CE1	44:JG:152:LEU:HD13	2.37	0.58
45:JH:86:ARG:HH11	45:KH:281:TYR:HA	1.66	0.58
45:JH:403:MET:HA	45:JH:403:MET:HE3	1.83	0.58
44:JI:288:VAL:HG22	44:JI:323:VAL:HG23	1.85	0.58
44:JK:103:PHE:HE1	44:JK:189:LEU:HB3	1.66	0.58
44:KA:70:LEU:HD13	44:KA:110:ILE:CD1	2.34	0.58
44:KA:253:THR:O	44:KA:257:THR:HG23	2.03	0.58
44:KC:88:HIS:CG	44:KC:89:PRO:HD2	2.37	0.58
44:KC:168:GLY:O	44:KC:201:ALA:HA	2.02	0.58
44:KG:88:HIS:ND1	44:KG:90:GLU:HG2	2.18	0.58
44:KG:105:ARG:HE	44:KG:110:ILE:CG2	2.16	0.58
45:KH:202:ILE:HD11	45:KH:268:ILE:HG12	1.84	0.58
44:KI:275:ILE:HG23	44:KI:368:LEU:HD13	1.84	0.58
44:KI:340:THR:CG2	44:KI:341:ILE:HD12	2.15	0.58
45:KL:21:TRP:HZ3	45:KL:51:TYR:HE1	1.50	0.58
44:KM:53:PHE:HE1	44:KM:63:PRO:HG3	1.68	0.58
44:LA:363:VAL:HG23	44:LA:364:PRO:HD2	1.84	0.58
44:LC:2:ARG:NE	44:LC:242:LEU:O	2.35	0.58
44:LC:224:TYR:HD1	45:LD:323:THR:HG21	1.68	0.58
44:LE:143:GLY:HA3	46:LE:501:GTP:O2B	2.03	0.58
45:LF:7:ILE:HD12	45:LF:151:LEU:CD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:54:ALA:HB3	45:LL:58:ARG:O	2.03	0.58
45:LL:165:GLU:OE2	45:LL:250:LEU:HD22	2.03	0.58
44:LM:22:GLU:HG3	44:LM:83:TYR:OH	2.03	0.58
45:LN:274:THR:HG21	45:LN:279:GLN:HA	1.85	0.58
45:LN:286:VAL:HA	45:LN:289:LEU:CG	2.33	0.58
44:MA:1:MET:CE	45:MD:94:GLN:HB3	2.33	0.58
44:MA:292:THR:O	44:MA:295:ALA:HB3	2.03	0.58
45:MB:130:LEU:HB3	45:MB:162:ARG:HE	1.68	0.58
45:MB:263:LEU:HB3	45:MB:370:ASN:HD21	1.68	0.58
45:MD:127:CYS:SG	45:MD:130:LEU:HD13	2.42	0.58
44:ME:98:ASP:OD1	44:ME:99:ALA:N	2.35	0.58
44:ME:221:ARG:HE	45:MF:325:GLU:HB2	1.66	0.58
45:MF:200:MET:HG2	45:MF:266:PHE:HB2	1.85	0.58
44:MG:265:ILE:HD12	44:MG:432:TYR:CE1	2.38	0.58
45:MH:372:THR:HA	45:MH:422:TYR:CE2	2.38	0.58
45:ML:9:GLY:HA2	45:ML:66:MET:SD	2.43	0.58
44:MM:183:GLU:N	44:MM:184:PRO:HD2	2.18	0.58
44:MM:247:ALA:H	44:MM:355:ILE:CG2	2.14	0.58
45:MN:35:THR:CG2	45:MN:37:HIS:HE1	2.15	0.58
45:MN:200:MET:HE3	45:MN:266:PHE:CD2	2.38	0.58
44:NA:157:LEU:CB	44:NA:166:LYS:HE2	2.32	0.58
44:NA:199:ASP:O	44:NA:266:HIS:HB2	2.02	0.58
44:NA:298:PRO:HG3	44:NA:308:ARG:NH2	2.18	0.58
45:NB:311:LEU:CD2	45:NB:342:VAL:HG11	2.33	0.58
45:NB:325:GLU:HA	45:NB:328:GLU:CG	2.32	0.58
45:NB:348:ASN:O	45:NB:349:ILE:HD13	2.02	0.58
44:NC:348:PRO:HD2	45:NF:388:MET:HE3	1.84	0.58
45:NF:352:SER:C	45:NF:353:ILE:HD12	2.23	0.58
44:NG:224:TYR:CZ	45:NH:323:THR:HG21	2.37	0.58
44:NG:386:GLU:HA	44:NG:389:SER:HB3	1.83	0.58
45:NJ:131:GLN:HE22	45:NJ:250:LEU:HB2	1.68	0.58
45:NL:8:GLN:NE2	45:NL:65:LEU:HG	2.18	0.58
45:NL:317:PHE:CE2	45:NL:326:VAL:HG22	2.38	0.58
44:NM:52:PHE:O	44:NM:63:PRO:HA	2.03	0.58
44:NM:102:ASN:OD1	44:NM:105:ARG:HB2	2.03	0.58
44:NM:275:ILE:O	44:NM:276:ILE:HD13	2.03	0.58
44:OA:319:TYR:O	44:OA:356:ASN:N	2.36	0.58
45:OB:268:ILE:O	45:OB:300:MET:HE2	2.02	0.58
45:OB:405:GLU:HA	45:OB:408:PHE:HD2	1.69	0.58
45:OD:175:VAL:HG11	45:OD:205:GLU:HA	1.83	0.58
44:OE:169:PHE:HE1	44:OE:202:VAL:HG21	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:318:ARG:HB3	45:OF:357:PRO:HA	1.85	0.58
44:OG:275:ILE:HG23	44:OG:368:LEU:HD11	1.83	0.58
45:OH:16:ILE:HD11	48:OH:501:GDP:HN21	1.68	0.58
45:OH:45:GLU:OE1	45:OH:46:ARG:NH1	2.36	0.58
45:OH:186:THR:HB	45:OH:381:VAL:CG1	2.33	0.58
44:OI:3:GLU:OE2	44:OI:129:CYS:HB3	2.03	0.58
44:OK:139:ASN:O	44:OK:170:THR:HA	2.03	0.58
44:OK:387:VAL:HG23	44:OK:390:ARG:CZ	2.32	0.58
45:OL:178:THR:HB	45:OL:181:GLU:CG	2.32	0.58
44:OM:70:LEU:HD21	44:OM:149:LEU:HD21	1.85	0.58
44:PA:205:ASP:OD1	44:PA:208:ALA:HB3	2.03	0.58
45:PD:117:LEU:HG	45:PD:121:ARG:HE	1.67	0.58
44:PG:288:VAL:HG21	44:PG:323:VAL:HG23	1.84	0.58
45:PJ:73:MET:CA	45:PJ:76:VAL:HG12	2.31	0.58
44:PK:145:THR:HG22	46:PK:501:GTP:O3B	2.03	0.58
44:PK:145:THR:N	46:PK:501:GTP:O2G	2.32	0.58
44:QA:208:ALA:O	44:QA:212:ILE:HG12	2.03	0.58
44:QA:259:LEU:HB3	44:QA:268:MET:HE3	1.84	0.58
44:QA:273:ALA:HB3	44:QA:375:VAL:CG1	2.33	0.58
44:QE:174:SER:HB2	44:QE:177:VAL:O	2.03	0.58
45:QF:208:TYR:CZ	45:QF:225:LEU:HD11	2.37	0.58
44:QG:60:LYS:NZ	44:QG:85:GLN:O	2.36	0.58
45:QH:3:GLU:HG3	45:QH:62:ARG:HH12	1.68	0.58
45:QJ:136:THR:O	45:QJ:136:THR:HG23	2.03	0.58
44:QK:103:PHE:HB2	44:QK:186:ASN:CB	2.33	0.58
44:QK:288:VAL:HG12	44:QK:373:ARG:HD2	1.84	0.58
45:QL:42:LEU:CA	45:QL:45:GLU:HG3	2.21	0.58
45:QL:289:LEU:O	45:QL:293:MET:HG3	2.02	0.58
44:QM:265:ILE:HG23	44:QM:432:TYR:HE1	1.68	0.58
45:RB:42:LEU:HA	45:RB:45:GLU:HG3	1.85	0.58
44:RC:64:ARG:HH11	44:RC:64:ARG:HB2	1.68	0.58
45:RD:22:GLU:HG2	45:RD:81:PHE:CD1	2.38	0.58
45:RD:44:LEU:CD2	45:RD:47:ILE:HD12	2.33	0.58
45:RD:309:ARG:HE	45:RD:342:VAL:HB	1.67	0.58
44:RG:35:GLN:N	44:RG:35:GLN:OE1	2.36	0.58
45:RH:285:THR:OG1	45:RH:288:GLU:OE1	2.17	0.58
44:SA:89:PRO:HG3	44:TA:280:LYS:CD	2.33	0.58
45:SB:19:LYS:HB3	45:SB:230:SER:OG	2.02	0.58
45:SB:173:PRO:HA	45:SB:380:ARG:HD2	1.84	0.58
45:SB:308:GLY:CA	45:SB:377:MET:HB3	2.33	0.58
44:SC:311:LYS:HD2	44:SC:342:GLN:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:20:PHE:O	45:SD:24:ILE:HG12	2.03	0.58
45:SF:3:GLU:O	45:SF:130:LEU:HA	2.03	0.58
45:SF:80:PRO:O	45:SF:81:PHE:HB2	2.03	0.58
44:SG:272:TYR:HB2	44:SG:302:MET:HE1	1.84	0.58
45:SH:289:LEU:CD1	45:SH:363:MET:HG2	2.32	0.58
44:SI:136:LEU:CD2	44:SI:167:LEU:HB2	2.33	0.58
44:SI:209:ILE:O	44:SI:212:ILE:HB	2.03	0.58
45:SJ:28:HIS:HB3	45:SJ:47:ILE:CD1	2.33	0.58
45:SJ:60:VAL:HG23	45:SJ:84:LEU:O	2.03	0.58
45:SL:316:LEU:HB2	45:SL:366:THR:HB	1.85	0.58
45:SL:413:SER:O	45:SL:417:ASP:N	2.26	0.58
45:SL:420:SER:O	45:SL:423:GLN:HG3	2.03	0.58
44:SM:157:LEU:HA	44:SM:160:ASP:HB2	1.85	0.58
44:SM:344:VAL:HG11	44:SM:346:TRP:CH2	2.38	0.58
45:TB:325:GLU:HA	45:TB:328:GLU:CG	2.33	0.58
44:TC:270:SER:O	44:TC:302:MET:HB3	2.03	0.58
44:TE:23:LEU:O	44:TE:27:GLU:HB2	2.03	0.58
45:TF:23:VAL:HG21	45:TF:230:SER:CB	2.33	0.58
44:TG:358:GLN:CD	44:TG:359:PRO:HD2	2.22	0.58
45:TH:116:VAL:HG22	45:TH:120:VAL:CG1	2.32	0.58
45:TH:214:THR:O	45:TH:216:LYS:HG3	2.03	0.58
45:TJ:100:ASN:HD21	45:TJ:102:ALA:HB3	1.68	0.58
45:TJ:121:ARG:O	45:TJ:124:ALA:N	2.35	0.58
45:TJ:139:LEU:HB2	45:TJ:169:VAL:O	2.03	0.58
44:TK:267:PHE:O	44:TK:380:ASN:ND2	2.36	0.58
45:TL:68:LEU:HB3	45:TL:96:GLY:CA	2.32	0.58
45:TL:252:LYS:HG3	44:TM:101:ASN:OD1	2.03	0.58
44:TM:66:VAL:HG22	44:TM:68:LEU:CD1	2.33	0.58
45:TN:149:THR:OG1	45:TN:191:GLN:HB3	2.02	0.58
44:UC:271:SER:HA	44:UC:302:MET:HE1	1.83	0.58
44:UE:115:VAL:HG21	44:UE:152:LEU:CD2	2.32	0.58
44:UE:363:VAL:HG23	44:UE:364:PRO:HD2	1.85	0.58
45:UF:405:GLU:O	45:UF:409:THR:N	2.34	0.58
44:UI:190:SER:O	44:UI:193:SER:N	2.36	0.58
44:UI:385:ALA:HB2	44:UI:432:TYR:CD2	2.38	0.58
44:UK:2:ARG:O	44:UK:3:GLU:HG3	2.03	0.58
44:UK:88:HIS:ND1	44:UK:89:PRO:HD2	2.18	0.58
44:UK:200:VAL:HG13	44:UK:268:MET:HE2	1.84	0.58
45:UL:239:CYS:HB3	45:UL:354:CYS:HB2	1.84	0.58
44:UM:286:LEU:HA	44:UM:290:GLU:OE2	2.02	0.58
45:UN:180:VAL:HG21	45:UN:398:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UN:420:SER:O	45:UN:423:GLN:HG3	2.02	0.58
45:VB:49:VAL:HG11	45:VB:241:ARG:CG	2.18	0.58
44:VC:118:CYS:O	44:VC:121:ARG:HB3	2.01	0.58
44:VC:348:PRO:HB2	45:VF:384:GLN:OE1	2.02	0.58
44:VE:311:LYS:HZ2	44:VE:342:GLN:HG3	1.68	0.58
45:VF:248:SER:HA	45:VF:252:LYS:HD2	1.85	0.58
44:VG:221:ARG:NE	45:VH:322:SER:HB3	2.17	0.58
44:VG:261:PRO:HA	45:VJ:394:PHE:CD2	2.38	0.58
45:VH:172:SER:HB3	45:VH:205:GLU:HB2	1.85	0.58
44:VI:183:GLU:N	44:VI:184:PRO:HD2	2.18	0.58
44:VI:265:ILE:HG23	44:VI:432:TYR:CE1	2.38	0.58
44:VI:315:CYS:O	44:VI:351:PHE:HA	2.03	0.58
45:VJ:97:ALA:CB	45:VJ:143:THR:HG22	2.20	0.58
45:VJ:116:VAL:HA	45:VJ:119:VAL:HG12	1.85	0.58
44:VK:171:ILE:HG23	44:VK:204:LEU:O	2.03	0.58
44:VK:235:ILE:O	44:VK:239:THR:OG1	2.21	0.58
45:VL:68:LEU:HG	45:VL:96:GLY:CA	2.33	0.58
45:VL:100:ASN:OD1	45:VL:103:LYS:HB2	2.03	0.58
45:VL:207:LEU:HB3	45:VL:225:LEU:CD2	2.33	0.58
45:VN:198:GLU:HG2	45:VN:266:PHE:CE2	2.38	0.58
44:WA:55:GLU:OE2	44:WA:59:GLY:N	2.35	0.58
44:WA:88:HIS:HB3	44:WA:91:GLN:HG3	1.85	0.58
45:WB:103:LYS:O	45:WB:108:GLU:HB2	2.03	0.58
45:WB:184:ASN:HA	45:WB:187:LEU:CB	2.28	0.58
44:WE:108:TYR:O	44:WE:112:LYS:NZ	2.36	0.58
44:WG:288:VAL:O	44:WG:292:THR:HG23	2.03	0.58
44:WG:290:GLU:HA	44:WG:293:ASN:ND2	2.18	0.58
44:WI:224:TYR:HA	44:WI:227:LEU:HD12	1.85	0.58
44:WK:152:LEU:CD1	44:WK:156:ARG:HH12	2.16	0.58
44:WK:408:TYR:O	44:WK:413:MET:HB2	2.03	0.58
45:WL:166:THR:OG1	45:WL:199:CYS:HA	2.03	0.58
45:WL:295:ASP:OD2	45:WL:297:LYS:HE2	2.03	0.58
5:0D:54:PHE:CZ	45:EB:320:ARG:HB3	2.36	0.58
2:1A:39:TYR:OH	44:ME:78:VAL:HG22	2.03	0.58
17:1B:238:TYR:CA	44:JC:84:ARG:HH12	2.11	0.58
8:1G:100:GLU:OE2	45:JB:320:ARG:NH1	2.34	0.58
26:2R:505:TYR:CD1	44:EG:39:ASP:HB3	2.37	0.58
16:4X:1:MET:SD	44:LI:249:ASN:HA	2.43	0.58
37:5B:138:ARG:NH1	45:NH:362:LYS:HD2	2.12	0.58
38:5G:22:LYS:HE3	38:5G:30:PRO:CD	2.32	0.58
39:5I:46:LEU:O	39:5I:47:PHE:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:78:MET:CE	11:5Q:156:ILE:HD11	2.33	0.58
35:5R:9:VAL:CG1	35:5R:15:HIS:HB3	2.32	0.58
35:5R:98:TYR:CE1	35:5R:204:VAL:HG23	2.38	0.58
35:5R:131:GLU:HG3	35:5R:141:GLN:CG	2.34	0.58
36:5S:178:ALA:O	36:5S:181:PRO:HD2	2.02	0.58
35:6R:294:ASN:OD1	45:DN:219:THR:CA	2.50	0.58
35:6R:323:LEU:HD22	45:CN:276:ARG:HD2	1.70	0.58
44:AA:122:ILE:HG22	44:AA:161:TYR:OH	2.02	0.58
44:AA:326:LYS:HD3	45:AD:220:PRO:CD	2.33	0.58
45:AB:258:ILE:HG13	45:AB:266:PHE:CZ	2.38	0.58
44:AG:22:GLU:HG3	44:AG:83:TYR:CE1	2.35	0.58
45:AJ:24:ILE:HD11	45:AJ:241:ARG:NH1	2.19	0.58
45:AL:258:ILE:HG13	45:AL:266:PHE:HZ	1.68	0.58
44:BA:237:SER:HA	44:BA:320:ARG:HH11	1.67	0.58
45:BB:309:ARG:NH2	45:BB:426:GLN:O	2.32	0.58
44:BC:60:LYS:NZ	44:BC:85:GLN:O	2.33	0.58
45:BD:97:ALA:HA	45:BD:103:LYS:HG2	1.85	0.58
44:BG:88:HIS:HA	44:CG:283:HIS:ND1	2.18	0.58
44:BG:258:ASN:OD1	45:BJ:179:VAL:HG12	2.03	0.58
44:BK:301:MET:HE1	44:BK:377:MET:SD	2.44	0.58
45:BL:193:VAL:HG21	45:BL:262:ARG:NH2	2.18	0.58
44:BM:166:LYS:C	44:BM:167:LEU:HD12	2.23	0.58
44:BM:241:SER:OG	44:BM:250:VAL:O	2.08	0.58
44:BM:270:SER:CB	44:BM:378:ILE:HD13	2.31	0.58
45:BN:183:TYR:OH	45:BN:388:MET:HB3	2.03	0.58
44:CA:25:CYS:O	44:CA:30:ILE:N	2.35	0.58
44:CA:183:GLU:HG2	44:CA:184:PRO:CD	2.33	0.58
44:CA:435:VAL:HA	45:CB:391:ARG:NH2	2.10	0.58
45:CB:272:PRO:HG3	45:CB:289:LEU:CD2	2.32	0.58
44:CC:296:PHE:HE2	44:CC:335:ILE:HG21	1.68	0.58
45:CF:139:LEU:CD2	45:CF:185:ALA:HA	2.33	0.58
45:CF:166:THR:HG21	45:CF:192:LEU:HD11	1.85	0.58
45:CF:192:LEU:CD1	45:CF:196:ALA:HB2	2.33	0.58
44:CG:66:VAL:HG11	44:CG:122:ILE:CD1	2.32	0.58
44:CG:209:ILE:HG21	44:CG:227:LEU:HD13	1.84	0.58
44:CI:331:SER:O	44:CI:335:ILE:HG12	2.03	0.58
44:CK:176:GLN:OE1	44:CK:176:GLN:N	2.36	0.58
44:CM:88:HIS:H	44:CM:91:GLN:NE2	2.01	0.58
44:CM:284:GLU:HG3	44:CM:286:LEU:CD2	2.31	0.58
44:CM:310:GLY:N	44:CM:383:ALA:HB2	2.18	0.58
45:CN:3:GLU:HA	45:CN:49:VAL:CG1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:44:LEU:HA	45:CN:47:ILE:CD1	2.33	0.58
45:CN:211:CYS:HB3	45:CN:217:LEU:CG	2.32	0.58
45:CN:239:CYS:SG	45:CN:316:LEU:HD23	2.43	0.58
44:DA:7:ILE:HD13	44:DA:66:VAL:CG1	2.34	0.58
44:DA:104:ALA:HB2	44:DA:413:MET:HE1	1.84	0.58
45:DH:21:TRP:CH2	45:DH:61:PRO:HB3	2.37	0.58
44:DI:119:LEU:HD21	44:DI:160:ASP:OD2	2.02	0.58
44:DI:288:VAL:CA	44:DI:291:ILE:HG12	2.32	0.58
45:DJ:302:ALA:HB3	45:DJ:377:MET:HE3	1.84	0.58
45:DJ:404:ASP:HB2	45:DJ:406:MET:HE1	1.84	0.58
44:DK:405:VAL:O	44:DK:408:TYR:N	2.32	0.58
45:DL:235:GLY:HA2	45:DL:238:CYS:HB3	1.83	0.58
45:DL:272:PRO:HB3	45:DL:282:ARG:HH22	1.68	0.58
44:DM:200:VAL:HG13	44:DM:268:MET:CE	2.33	0.58
44:DM:275:ILE:HG23	44:DM:368:LEU:CD2	2.31	0.58
45:DN:72:THR:O	45:DN:75:SER:N	2.34	0.58
44:EA:30:ILE:HG12	44:EA:36:MET:HB3	1.85	0.58
45:EB:199:CYS:O	45:EB:265:PHE:HA	2.03	0.58
45:EB:317:PHE:O	45:EB:353:ILE:HA	2.02	0.58
44:EC:141:VAL:HG11	44:EC:172:TYR:CD1	2.32	0.58
45:ED:66:MET:CE	45:ED:112:LEU:HD21	2.33	0.58
45:ED:324:LYS:HE3	44:EE:210:TYR:CG	2.38	0.58
44:EE:363:VAL:HG23	44:EE:364:PRO:HD2	1.84	0.58
45:EF:83:GLN:OE1	45:EF:83:GLN:HA	2.02	0.58
45:EF:383:GLU:O	45:EF:386:THR:HG22	2.03	0.58
45:EH:72:THR:O	45:EH:75:SER:OG	2.17	0.58
44:EI:209:ILE:HG22	44:EI:227:LEU:HD22	1.85	0.58
45:EJ:268:ILE:HG22	45:EJ:368:VAL:HA	1.85	0.58
44:EK:203:MET:O	44:EK:303:ALA:HB2	2.03	0.58
45:EL:7:ILE:HB	45:EL:135:ILE:HD13	1.84	0.58
45:EL:293:MET:HE2	45:EL:367:PHE:HB2	1.85	0.58
45:EN:309:ARG:HH12	45:EN:343:GLU:CG	2.16	0.58
44:FA:103:PHE:O	44:FA:107:HIS:HB2	2.03	0.58
44:FA:116:ASP:O	44:FA:119:LEU:HB2	2.03	0.58
44:FA:317:MET:HG3	44:FA:353:VAL:CA	2.33	0.58
44:FA:325:PRO:HG2	45:FD:222:TYR:CE1	2.38	0.58
45:FD:109:GLY:O	45:FD:113:ILE:HB	2.03	0.58
45:FD:184:ASN:OD1	45:FD:185:ALA:N	2.36	0.58
44:FE:14:ILE:HD13	44:FE:75:ILE:HD11	1.85	0.58
44:FG:401:LYS:HE3	45:FH:344:TRP:CD2	2.38	0.58
45:FH:21:TRP:CH2	45:FH:61:PRO:HB3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:262:ARG:HE	45:FH:263:LEU:CD1	2.14	0.58
45:FJ:377:MET:HA	45:FJ:380:ARG:HD2	1.85	0.58
44:FK:3:GLU:HG2	44:FK:64:ARG:CZ	2.32	0.58
44:FK:317:MET:HE2	44:FK:375:VAL:HG23	1.85	0.58
45:FL:86:ARG:HH21	45:FL:87:PRO:HD2	1.67	0.58
44:FM:2:ARG:HD2	44:FM:242:LEU:O	2.03	0.58
45:FN:249:ASP:OD1	45:FN:251:ARG:HB2	2.03	0.58
45:FN:377:MET:O	45:FN:380:ARG:HG2	2.03	0.58
45:GB:102:ALA:O	45:GB:106:TYR:N	2.21	0.58
44:GC:195:LEU:HD12	44:GC:266:HIS:NE2	2.17	0.58
44:GE:238:LEU:O	44:GE:238:LEU:HD23	2.03	0.58
44:GG:237:SER:CA	44:GG:320:ARG:HH21	2.07	0.58
44:GI:292:THR:HG21	44:GI:331:SER:HB3	1.83	0.58
44:GK:209:ILE:CG2	44:GK:227:LEU:HD22	2.33	0.58
44:GK:324:VAL:CG1	44:GK:326:LYS:HG2	2.33	0.58
45:GN:40:SER:OG	45:GN:43:GLN:HG3	2.02	0.58
45:GN:225:LEU:O	45:GN:229:VAL:HG23	2.03	0.58
45:GN:385:PHE:O	45:GN:389:PHE:HD1	1.86	0.58
44:HA:75:ILE:CG2	44:HA:92:LEU:HD23	2.33	0.58
44:HA:136:LEU:CD2	44:HA:167:LEU:HB2	2.34	0.58
45:HB:405:GLU:O	45:HB:408:PHE:HB2	2.02	0.58
44:HC:254:GLU:CD	45:HF:98:GLY:HA2	2.23	0.58
45:HD:58:ARG:HH21	45:HD:86:ARG:HH22	1.51	0.58
44:HE:276:ILE:HD11	44:HE:280:LYS:O	2.02	0.58
44:HE:401:LYS:HD3	45:HF:344:TRP:CE3	2.38	0.58
45:HF:4:ILE:HG22	45:HF:132:GLY:N	2.18	0.58
44:HG:5:ILE:HB	44:HG:135:PHE:CE1	2.38	0.58
44:HG:63:PRO:HG2	44:HG:86:LEU:HG	1.84	0.58
45:HJ:46:ARG:HG3	45:HJ:49:VAL:HG23	1.85	0.58
45:HJ:200:MET:SD	45:HJ:266:PHE:HB2	2.43	0.58
45:HL:238:CYS:SG	45:HL:318:ARG:NE	2.75	0.58
44:HM:323:VAL:HG13	44:HM:355:ILE:HG12	1.84	0.58
44:IA:4:VAL:HG12	44:IA:51:THR:CG2	2.32	0.58
44:IA:79:ARG:HD3	44:IA:92:LEU:HD22	1.86	0.58
44:IA:88:HIS:HB3	44:IA:91:GLN:HB2	1.85	0.58
44:IA:268:MET:CE	44:IA:270:SER:HB3	2.33	0.58
44:IC:98:ASP:HB3	45:ID:249:ASP:OD2	2.03	0.58
44:IE:3:GLU:CG	44:IE:132:LEU:HD23	2.32	0.58
45:IF:295:ASP:OD1	45:IF:296:ALA:N	2.36	0.58
45:IH:108:GLU:O	45:IH:111:GLU:HG3	2.04	0.58
45:IH:173:PRO:HG2	45:IH:380:ARG:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:86:ARG:NE	45:IJ:87:PRO:HD2	2.17	0.58
45:IJ:287:PRO:HG3	45:IJ:329:GLN:NE2	2.18	0.58
44:IK:12:GLY:O	44:IK:16:VAL:HG13	2.03	0.58
45:IL:86:ARG:O	45:IL:86:ARG:HD2	2.03	0.58
45:IL:170:VAL:HG11	45:IL:377:MET:SD	2.43	0.58
44:IM:203:MET:CG	44:IM:384:ILE:HD11	2.32	0.58
44:JA:22:GLU:OE1	44:JA:22:GLU:HA	2.04	0.58
45:JB:249:ASP:OD1	45:JB:252:LYS:HB2	2.02	0.58
45:JF:286:VAL:CG1	45:JF:329:GLN:HG3	2.30	0.58
44:JI:3:GLU:HB2	44:JI:129:CYS:SG	2.43	0.58
45:JJ:10:GLY:O	45:JJ:14:ASN:N	2.35	0.58
44:JM:269:LEU:H	44:JM:269:LEU:HD23	1.68	0.58
45:JN:237:THR:HG23	45:JN:241:ARG:HE	1.67	0.58
44:KA:11:GLN:N	46:KA:501:GTP:O1B	2.34	0.58
44:KA:56:THR:HA	44:LA:285:GLN:CG	2.29	0.58
45:KB:117:LEU:O	45:KB:120:VAL:HG12	2.03	0.58
45:KB:263:LEU:HG	45:KB:422:TYR:HE1	1.68	0.58
44:KC:28:HIS:CE1	44:KC:243:ARG:HD2	2.38	0.58
45:KD:7:ILE:HD11	45:KD:135:ILE:CD1	2.33	0.58
45:KD:263:LEU:HG	45:KD:422:TYR:HE1	1.68	0.58
44:KE:7:ILE:HA	44:KE:66:VAL:CG2	2.34	0.58
44:KE:349:THR:O	45:KH:179:VAL:HG23	2.03	0.58
45:KF:248:SER:CB	45:KF:252:LYS:HD2	2.33	0.58
44:KG:203:MET:C	44:KG:204:LEU:HD22	2.24	0.58
44:KG:326:LYS:NZ	45:KJ:219:THR:HA	2.18	0.58
44:KI:254:GLU:O	44:KI:257:THR:HG22	2.03	0.58
45:KL:117:LEU:HD11	45:KL:154:LYS:HD2	1.85	0.58
45:KL:162:ARG:HG2	45:KL:162:ARG:HH11	1.68	0.58
45:KL:242:PHE:CB	45:KL:356:ILE:HD13	2.28	0.58
44:KM:54:SER:HB2	44:KM:64:ARG:NH1	2.17	0.58
45:LB:2:ARG:NH2	45:LB:240:LEU:HG	2.17	0.58
44:LC:259:LEU:HD11	44:LC:316:SER:HB3	1.84	0.58
44:LE:12:GLY:O	44:LE:16:VAL:HG13	2.02	0.58
45:LF:311:LEU:HD13	45:LF:342:VAL:HG21	1.85	0.58
45:LF:405:GLU:O	45:LF:409:THR:HG23	2.04	0.58
45:LJ:39:ASP:OD1	45:LJ:40:SER:N	2.32	0.58
45:LJ:230:SER:HA	45:LJ:233:MET:CE	2.33	0.58
45:LN:180:VAL:HG13	45:LN:184:ASN:HD21	1.67	0.58
44:ME:183:GLU:N	44:ME:184:PRO:HD2	2.18	0.58
44:ME:250:VAL:HG13	44:ME:254:GLU:HB2	1.85	0.58
45:MF:178:THR:HG22	45:MF:180:VAL:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:242:PHE:CG	45:MF:356:ILE:HD12	2.38	0.58
45:MF:310:TYR:CE1	45:MF:371:SER:HB2	2.37	0.58
44:MG:42:ILE:HD12	44:MG:45:GLY:HA3	1.85	0.58
45:MH:44:LEU:HA	45:MH:47:ILE:HG12	1.85	0.58
44:MI:93:ILE:HD12	44:MI:93:ILE:H	1.68	0.58
45:ML:216:LYS:HD3	45:ML:275:SER:HB2	1.85	0.58
44:MM:207:GLU:HG3	44:MM:304:LYS:HZ2	1.66	0.58
44:NA:60:LYS:HE3	44:OA:283:HIS:ND1	2.19	0.58
44:NA:179:THR:HG23	45:NB:351:SER:OG	2.04	0.58
44:NA:213:CYS:O	44:NA:217:LEU:N	2.36	0.58
44:NA:247:ALA:HB1	45:ND:222:TYR:CD2	2.38	0.58
44:NA:254:GLU:CG	45:ND:98:GLY:HA2	2.33	0.58
45:ND:12:CYS:CB	45:ND:138:SER:HB2	2.32	0.58
45:ND:286:VAL:HG22	45:ND:287:PRO:HD3	1.84	0.58
44:NE:121:ARG:HE	44:NE:124:LYS:HE2	1.68	0.58
44:NE:269:LEU:HD13	44:NE:301:MET:CE	2.31	0.58
44:NG:70:LEU:HB3	44:NG:97:GLU:O	2.03	0.58
44:NG:76:ASP:OD1	44:NG:77:GLU:N	2.35	0.58
44:NG:139:ASN:OD1	44:NG:170:THR:HG22	2.03	0.58
45:NH:396:HIS:HA	45:NH:399:THR:OG1	2.04	0.58
44:NI:272:TYR:HD2	44:NI:275:ILE:HD11	1.67	0.58
45:NJ:54:ALA:HB3	45:NJ:58:ARG:O	2.03	0.58
45:NJ:200:MET:HA	45:NJ:200:MET:CE	2.34	0.58
45:NJ:363:MET:SD	45:NJ:364:ALA:N	2.77	0.58
44:NK:185:TYR:OH	44:NK:398:MET:HB3	2.02	0.58
44:NM:317:MET:SD	44:NM:377:MET:HB3	2.43	0.58
45:NN:139:LEU:HD12	45:NN:170:VAL:CG2	2.33	0.58
45:NN:293:MET:HE3	45:NN:367:PHE:HA	1.85	0.58
44:OC:69:ASP:OD1	44:OC:70:LEU:N	2.36	0.58
45:OD:87:PRO:HA	45:OD:90:PHE:CD2	2.38	0.58
45:OD:182:PRO:O	45:OD:186:THR:HG22	2.03	0.58
44:OE:183:GLU:HG2	44:OE:184:PRO:CD	2.33	0.58
45:OF:302:ALA:HB3	45:OF:377:MET:CE	2.33	0.58
44:OG:208:ALA:HB3	44:OG:302:MET:HE3	1.85	0.58
44:OG:398:MET:HE2	45:OH:346:PRO:HD2	1.85	0.58
44:OK:100:ALA:O	45:OL:255:VAL:HG21	2.03	0.58
45:OL:14:ASN:OD1	45:OL:15:GLN:N	2.36	0.58
44:PA:71:GLU:HB2	44:PA:98:ASP:HB2	1.83	0.58
45:PB:382:ALA:HB2	45:PB:415:MET:HE1	1.85	0.58
45:PD:205:GLU:O	45:PD:208:TYR:HB2	2.03	0.58
45:PF:164:MET:CE	45:PF:164:MET:HA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:306:ARG:HA	45:PF:340:TYR:HE1	1.68	0.58
44:PG:287:SER:O	44:PG:291:ILE:HG23	2.02	0.58
45:PH:197:ASP:O	45:PH:198:GLU:HG3	2.03	0.58
45:PH:318:ARG:HD3	45:PH:358:PRO:CD	2.32	0.58
45:PJ:237:THR:HG23	45:PJ:241:ARG:NE	2.17	0.58
44:PK:260:VAL:HG21	44:PK:266:HIS:HB2	1.85	0.58
44:PK:269:LEU:N	44:PK:379:SER:O	2.35	0.58
44:PK:315:CYS:SG	44:PK:379:SER:HB3	2.43	0.58
45:PN:97:ALA:O	45:PN:103:LYS:HD2	2.03	0.58
45:QD:105:HIS:CD2	45:QD:149:THR:HG23	2.38	0.58
44:QE:36:MET:HG2	44:QE:37:PRO:HD2	1.85	0.58
44:QG:102:ASN:HB2	44:QG:105:ARG:HG3	1.84	0.58
45:QH:240:LEU:HD12	45:QH:249:ASP:HA	1.85	0.58
44:QI:209:ILE:HG21	44:QI:227:LEU:HA	1.85	0.58
45:QJ:115:SER:O	45:QJ:119:VAL:HG13	2.03	0.58
45:QJ:168:SER:CB	45:QJ:201:VAL:HA	2.25	0.58
45:QN:139:LEU:CD2	45:QN:170:VAL:HG12	2.31	0.58
45:QN:376:GLU:HA	45:QN:379:LYS:CE	2.33	0.58
44:RA:14:ILE:HD11	44:RA:68:LEU:O	2.02	0.58
45:RB:326:VAL:HG12	45:RB:330:MET:CE	2.34	0.58
44:RC:3:GLU:HG3	44:RC:129:CYS:HB3	1.83	0.58
44:RC:22:GLU:HG3	44:RC:83:TYR:OH	2.03	0.58
44:RE:163:LYS:O	44:RE:163:LYS:HG3	2.02	0.58
44:RE:325:PRO:HG2	45:RF:222:TYR:CE2	2.38	0.58
45:RF:4:ILE:HG23	45:RF:131:GLN:NE2	2.18	0.58
45:RF:318:ARG:HB2	45:RF:358:PRO:HD3	1.84	0.58
44:RG:145:THR:HG22	46:RG:501:GTP:PG	2.43	0.58
44:RG:240:ALA:HB1	44:RG:358:GLN:NE2	2.18	0.58
45:RH:19:LYS:O	45:RH:22:GLU:HB2	2.03	0.58
45:RH:268:ILE:HG13	45:RH:300:MET:CB	2.31	0.58
45:RJ:166:THR:OG1	45:RJ:198:GLU:O	2.21	0.58
44:RK:426:ALA:O	44:RK:430:LYS:N	2.25	0.58
44:RM:70:LEU:CD1	44:RM:99:ALA:HB2	2.33	0.58
44:RM:200:VAL:HG13	44:RM:268:MET:SD	2.43	0.58
45:RN:178:THR:CG2	45:RN:180:VAL:HG12	2.33	0.58
45:SD:170:VAL:CG2	45:SD:171:PRO:HD2	2.33	0.58
45:SD:412:GLU:OE1	45:SD:412:GLU:HA	2.02	0.58
45:SF:65:LEU:HD22	45:SF:90:PHE:CE1	2.38	0.58
45:SF:99:ASN:HA	45:SF:142:GLY:CA	2.33	0.58
44:SG:220:GLU:O	44:SG:221:ARG:HD2	2.03	0.58
44:SG:287:SER:O	44:SG:291:ILE:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:170:VAL:HG12	45:SH:203:ASP:OD1	2.03	0.58
44:SM:106:GLY:HA3	44:SM:149:LEU:CD2	2.33	0.58
44:SM:434:GLU:O	44:SM:437:ILE:HG12	2.01	0.58
45:TB:116:VAL:O	45:TB:119:VAL:HG12	2.02	0.58
45:TD:287:PRO:CA	45:TD:329:GLN:HE22	2.16	0.58
45:TD:370:ASN:OD1	45:TD:422:TYR:OH	2.20	0.58
44:TE:161:TYR:O	44:TE:164:LYS:NZ	2.36	0.58
44:TG:88:HIS:CE1	44:TG:90:GLU:HG2	2.37	0.58
45:TH:287:PRO:O	45:TH:290:THR:HG22	2.02	0.58
44:TI:154:LEU:HB3	44:TI:197:HIS:HB3	1.85	0.58
45:TJ:362:LYS:HD2	45:TJ:362:LYS:H	1.65	0.58
44:TK:91:GLN:HB2	44:TK:121:ARG:HD2	1.85	0.58
44:TM:185:TYR:HA	44:TM:395:PHE:CE1	2.38	0.58
45:TN:252:LYS:O	45:TN:255:VAL:HG22	2.03	0.58
45:TN:342:VAL:HG13	45:TN:345:ILE:HG22	1.84	0.58
44:UA:141:VAL:CG2	44:UA:187:SER:HA	2.34	0.58
44:UA:247:ALA:HB3	44:UA:355:ILE:CG2	2.33	0.58
44:UC:259:LEU:HD21	44:UC:316:SER:CB	2.29	0.58
44:UC:320:ARG:CB	44:UC:359:PRO:HA	2.31	0.58
45:UD:325:GLU:O	45:UD:328:GLU:HG2	2.03	0.58
44:UG:407:TRP:O	44:UG:410:GLY:N	2.36	0.58
45:UH:2:ARG:CZ	45:UH:240:LEU:HG	2.33	0.58
44:UI:209:ILE:HG21	44:UI:227:LEU:HB3	1.85	0.58
45:UJ:150:LEU:O	45:UJ:150:LEU:HD23	2.02	0.58
45:UJ:164:MET:HE3	45:UJ:164:MET:HA	1.85	0.58
45:UL:270:PHE:HD2	45:UL:273:LEU:HD21	1.68	0.58
44:UM:326:LYS:NZ	45:UN:220:PRO:O	2.33	0.58
45:UN:168:SER:OG	45:UN:192:LEU:HD21	2.04	0.58
44:VA:19:ALA:HB3	44:VA:228:ASN:HB3	1.85	0.58
45:VB:167:PHE:CE2	45:VB:233:MET:HG2	2.39	0.58
44:VC:223:THR:HB	45:VD:322:SER:CA	2.32	0.58
44:VE:91:GLN:NE2	44:VE:125:LEU:HD21	2.18	0.58
44:VE:192:HIS:ND1	44:VE:424:ASP:OD2	2.36	0.58
44:VE:349:THR:O	44:VE:349:THR:HG23	2.03	0.58
44:VE:398:MET:HE2	45:VF:346:PRO:HD2	1.84	0.58
45:VF:257:LEU:HD21	45:VF:368:VAL:HG23	1.85	0.58
45:VF:299:MET:HE1	45:VF:305:PRO:CB	2.33	0.58
44:VG:260:VAL:O	44:VG:260:VAL:HG23	2.02	0.58
45:VH:19:LYS:HA	45:VH:22:GLU:HG3	1.86	0.58
45:VH:156:ARG:NH1	45:VH:159:TYR:O	2.37	0.58
44:VI:280:LYS:HD2	44:VI:283:HIS:CB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:329:ASN:HD21	45:VL:175:VAL:HG11	1.68	0.58
44:VI:417:GLU:O	44:VI:420:GLU:HG2	2.03	0.58
45:VN:130:LEU:HB3	45:VN:162:ARG:HD2	1.85	0.58
45:VN:202:ILE:HD12	45:VN:229:VAL:HG13	1.85	0.58
45:VN:265:PHE:HE2	45:VN:378:PHE:HZ	1.51	0.58
45:VN:420:SER:HA	45:VN:423:GLN:CG	2.33	0.58
44:WA:5:ILE:HD12	44:WA:135:PHE:CE2	2.38	0.58
44:WA:11:GLN:HE22	45:WB:246:LEU:HA	1.69	0.58
44:WA:149:LEU:CA	44:WA:153:LEU:HD13	2.32	0.58
44:WA:273:ALA:HB1	44:WA:274:PRO:HA	1.84	0.58
45:WB:178:THR:HB	45:WB:181:GLU:CG	2.26	0.58
44:WC:213:CYS:O	44:WC:218:ASP:N	2.37	0.58
44:WC:356:ASN:OD1	44:WC:357:TYR:N	2.34	0.58
45:WD:274:THR:HG21	45:WD:278:SER:O	2.03	0.58
45:WD:292:GLN:HE21	45:WD:298:ASN:HB2	1.68	0.58
44:WG:85:GLN:N	44:WG:85:GLN:OE1	2.36	0.58
45:WH:42:LEU:CD2	45:WH:356:ILE:HD11	2.32	0.58
45:WH:173:PRO:HD3	45:WH:380:ARG:HD3	1.85	0.58
44:WI:183:GLU:N	44:WI:184:PRO:HD2	2.18	0.58
44:WI:265:ILE:O	44:WI:265:ILE:HG23	2.02	0.58
44:WI:384:ILE:O	44:WI:387:VAL:HG22	2.03	0.58
45:WJ:316:LEU:HA	45:WJ:352:SER:OG	2.02	0.58
44:WK:118:CYS:O	44:WK:121:ARG:HB3	2.02	0.58
44:WK:320:ARG:CG	44:WK:374:ALA:HB3	2.32	0.58
44:WK:325:PRO:O	44:WK:328:VAL:HB	2.03	0.58
45:WL:131:GLN:HE22	45:WL:249:ASP:HB2	1.68	0.58
45:WL:217:LEU:HD11	45:WL:220:PRO:HG3	1.85	0.58
45:WL:253:LEU:HD21	45:WL:257:LEU:HD22	1.85	0.58
44:WM:147:SER:O	44:WM:151:SER:HB3	2.02	0.58
45:WN:202:ILE:CG2	45:WN:207:LEU:HD21	2.33	0.58
5:0D:38:ILE:HD11	44:DC:84:ARG:CG	2.32	0.58
9:1H:358:GLU:HB3	44:HA:370:LYS:HE2	1.84	0.58
20:1J:262:VAL:CG2	44:II:372:MET:HB3	2.33	0.58
5:2D:57:THR:HG22	44:EK:217:LEU:HB3	1.85	0.58
30:2G:34:HIS:ND1	45:KJ:216:LYS:HD3	2.18	0.58
12:2S:123:ALA:HB2	45:AJ:427:ASP:OD2	2.02	0.58
12:2S:149:HIS:CD2	44:WG:132:LEU:HD21	2.38	0.58
27:2W:245:LEU:HA	45:LN:276:ARG:HH21	1.67	0.58
16:2X:99:VAL:HG22	44:MG:282:TYR:OH	2.02	0.58
32:3I:197:GLN:NE2	44:FK:123:ARG:O	2.37	0.58
26:3R:391:SER:O	45:EL:276:ARG:HD3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3T:126:LYS:HE3	44:AK:339:ARG:CG	2.31	0.58
37:5D:37:ASP:CB	44:KK:263:PRO:HG2	2.33	0.58
38:5G:59:THR:HG1	45:OJ:276:ARG:HH12	1.42	0.58
38:5H:20:LEU:HD22	45:NL:46:ARG:NH2	2.18	0.58
35:5R:230:GLU:O	35:5R:234:VAL:HG23	2.03	0.58
41:6G:226:GLY:HA2	44:VC:338:LYS:CD	2.22	0.58
11:6Q:47:LEU:HD21	11:6Q:49:ILE:HD11	1.86	0.58
35:6R:80:ARG:CZ	44:MM:38:SER:CA	2.80	0.58
35:6R:241:PRO:HG2	44:CM:373:ARG:HH22	1.68	0.58
35:6R:379:LYS:HE3	35:6R:381:PHE:CZ	2.38	0.58
35:7R:436:GLU:CD	45:FB:280:GLN:HB2	2.24	0.58
44:AA:271:SER:HA	44:AA:377:MET:HB3	1.85	0.58
45:AB:29:GLY:HA3	45:AB:43:GLN:NE2	2.18	0.58
44:AE:288:VAL:CG1	44:AE:327:ASP:HB3	2.30	0.58
45:AF:60:VAL:HG23	45:AF:86:ARG:HH11	1.69	0.58
45:AF:241:ARG:HH11	45:AF:241:ARG:HG3	1.68	0.58
44:AI:192:HIS:ND1	44:AI:424:ASP:OD2	2.32	0.58
45:AJ:387:ALA:O	45:AJ:390:ARG:HG2	2.02	0.58
45:AL:316:LEU:HD23	45:AL:352:SER:CB	2.29	0.58
44:AM:319:TYR:HB2	44:AM:355:ILE:CD1	2.30	0.58
45:AN:221:THR:HG22	45:AN:224:ASP:OD2	2.02	0.58
44:BA:169:PHE:CD1	44:BA:202:VAL:HG21	2.38	0.58
44:BC:206:ASN:O	44:BC:209:ILE:HG22	2.03	0.58
44:BE:63:PRO:HG3	44:BE:86:LEU:CD2	2.34	0.58
44:BE:97:GLU:OE1	45:BF:131:GLN:NE2	2.35	0.58
44:BE:209:ILE:HG12	44:BE:302:MET:SD	2.43	0.58
44:BE:276:ILE:HD11	44:BE:280:LYS:O	2.03	0.58
45:BF:242:PHE:CD2	45:BF:356:ILE:HB	2.39	0.58
44:BG:52:PHE:CZ	44:BG:239:THR:HG21	2.39	0.58
44:BG:132:LEU:O	44:BG:164:LYS:HE3	2.04	0.58
44:BI:261:PRO:HG2	44:BI:313:MET:HE2	1.83	0.58
45:BJ:293:MET:HE3	45:BJ:367:PHE:HB2	1.85	0.58
45:BL:131:GLN:O	45:BL:163:ILE:HG12	2.03	0.58
45:BN:24:ILE:O	45:BN:27:GLU:HG2	2.03	0.58
44:CA:8:HIS:CD2	44:CA:138:PHE:HB2	2.38	0.58
44:CA:346:TRP:CE3	44:CA:347:CYS:HB2	2.37	0.58
45:CB:105:HIS:CE1	45:CB:150:LEU:HD12	2.39	0.58
45:CB:267:MET:CE	45:CB:374:ILE:HD11	2.33	0.58
45:CD:192:LEU:CD1	45:CD:196:ALA:HB2	2.32	0.58
45:CD:253:LEU:HD21	45:CD:257:LEU:HD22	1.85	0.58
44:CE:9:VAL:HG12	44:CE:68:LEU:HB2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:194:LEU:O	44:CE:198:THR:N	2.36	0.58
44:CE:202:VAL:HG11	44:CE:270:SER:HB3	1.85	0.58
44:CG:6:SER:O	44:CG:7:ILE:HD13	2.03	0.58
44:CG:319:TYR:HE2	44:CG:328:VAL:HG22	1.69	0.58
44:CG:387:VAL:HA	44:CG:390:ARG:HG2	1.84	0.58
45:CJ:4:ILE:O	45:CJ:62:ARG:NH2	2.36	0.58
45:CJ:60:VAL:HG11	45:CJ:86:ARG:NE	2.17	0.58
45:CJ:265:PHE:HB3	45:CJ:374:ILE:HD13	1.86	0.58
45:CL:51:TYR:CE1	45:CL:61:PRO:HG3	2.37	0.58
45:DB:86:ARG:NH2	45:DB:87:PRO:HG2	2.07	0.58
44:DC:145:THR:HG23	44:DC:146:GLY:N	2.18	0.58
44:DC:157:LEU:HA	44:DC:160:ASP:HB2	1.85	0.58
45:DD:113:ILE:HA	45:DD:116:VAL:HG12	1.85	0.58
44:DE:63:PRO:HG2	44:DE:86:LEU:HG	1.84	0.58
44:DE:286:LEU:N	44:DE:290:GLU:OE2	2.36	0.58
45:DF:304:ASP:OD1	45:DF:305:PRO:HD2	2.04	0.58
44:DG:205:ASP:OD2	44:DG:304:LYS:N	2.33	0.58
45:DH:7:ILE:HB	45:DH:135:ILE:CD1	2.33	0.58
45:DH:44:LEU:HA	45:DH:47:ILE:CD1	2.33	0.58
45:DJ:141:GLY:HA3	48:DJ:501:GDP:PB	2.44	0.58
44:DK:89:PRO:HB3	44:EK:280:LYS:HG3	1.85	0.58
44:DM:270:SER:HB2	44:DM:378:ILE:HD13	1.84	0.58
44:EC:117:LEU:HG	44:EC:121:ARG:NH1	2.15	0.58
44:EC:268:MET:HB2	44:EC:379:SER:O	2.04	0.58
44:EE:69:ASP:OD1	44:EE:71:GLU:HG3	2.03	0.58
44:EG:24:PHE:CZ	44:EG:235:ILE:HG22	2.38	0.58
45:EH:208:TYR:O	45:EH:211:CYS:HB2	2.03	0.58
45:EH:252:LYS:HG2	45:EH:350:LYS:CE	2.31	0.58
45:EH:253:LEU:HD11	45:EH:316:LEU:HD11	1.84	0.58
45:EH:337:ASN:HB3	45:EH:340:TYR:HB2	1.85	0.58
45:EJ:14:ASN:OD1	45:EJ:15:GLN:N	2.36	0.58
44:EK:319:TYR:CE1	44:EK:375:VAL:HB	2.38	0.58
45:EL:311:LEU:HD22	45:EL:425:TYR:HE2	1.68	0.58
44:EM:183:GLU:HG2	44:EM:184:PRO:HD3	1.85	0.58
44:EM:206:ASN:HA	44:EM:209:ILE:HD12	1.85	0.58
45:EN:309:ARG:HA	45:EN:340:TYR:O	2.04	0.58
45:FB:267:MET:HE2	45:FB:374:ILE:HG23	1.85	0.58
44:FC:179:THR:O	45:FD:350:LYS:HA	2.03	0.58
45:FF:242:PHE:HD2	45:FF:356:ILE:HB	1.67	0.58
45:FH:7:ILE:HD11	45:FH:120:VAL:HG23	1.84	0.58
45:FH:217:LEU:HD12	45:FH:217:LEU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:348:PRO:CB	45:FN:384:GLN:HG2	2.34	0.58
45:FL:7:ILE:CG2	45:FL:135:ILE:HD13	2.33	0.58
45:FL:43:GLN:O	45:FL:47:ILE:HD11	2.04	0.58
45:FL:396:HIS:HA	45:FL:399:THR:OG1	2.03	0.58
44:FM:318:MET:SD	44:FM:354:GLY:HA3	2.44	0.58
44:GA:288:VAL:HG11	44:GA:323:VAL:HG23	1.84	0.58
45:GB:324:LYS:O	45:GB:328:GLU:HG2	2.03	0.58
45:GD:55:THR:O	45:GD:55:THR:HG23	2.01	0.58
45:GF:7:ILE:HB	45:GF:135:ILE:HD13	1.83	0.58
44:GG:172:TYR:OH	44:GG:191:THR:HG22	2.03	0.58
45:GH:165:GLU:OE2	45:GH:250:LEU:HD22	2.03	0.58
44:GI:264:ARG:HG2	44:GI:264:ARG:HH11	1.68	0.58
44:HA:143:GLY:HA3	46:HA:501:GTP:O2B	2.04	0.58
45:HD:135:ILE:HG13	45:HD:152:ILE:CD1	2.33	0.58
44:HE:181:VAL:HG12	45:HF:256:ASN:OD1	2.03	0.58
44:HE:289:ALA:O	44:HE:292:THR:HG22	2.03	0.58
44:HE:326:LYS:HG3	45:HH:220:PRO:CG	2.31	0.58
45:HF:2:ARG:HB2	45:HF:131:GLN:CG	2.33	0.58
45:HF:216:LYS:HG3	45:HF:275:SER:HB3	1.84	0.58
45:HH:209:ASP:OD1	45:HH:213:ARG:HD3	2.03	0.58
44:HI:192:HIS:ND1	44:HI:424:ASP:OD2	2.35	0.58
45:HJ:73:MET:O	45:HJ:76:VAL:HG12	2.04	0.58
44:HK:68:LEU:HD21	44:HK:118:CYS:CB	2.33	0.58
45:HL:103:LYS:N	45:HL:401:GLU:OE1	2.36	0.58
45:HL:342:VAL:HG13	45:HL:345:ILE:HG22	1.85	0.58
44:HM:187:SER:HB3	44:HM:391:LEU:HD23	1.85	0.58
44:HM:422:ARG:NH1	44:HM:426:ALA:HB2	2.18	0.58
45:HN:252:LYS:O	45:HN:256:ASN:ND2	2.36	0.58
45:HN:268:ILE:N	45:HN:299:MET:HE1	2.17	0.58
45:IB:229:VAL:O	45:IB:232:ALA:HB3	2.02	0.58
45:ID:34:GLY:O	45:ID:58:ARG:HA	2.02	0.58
45:IF:169:VAL:HA	45:IF:202:ILE:O	2.02	0.58
44:IG:326:LYS:O	44:IG:330:ALA:N	2.36	0.58
45:IH:371:SER:O	45:IH:422:TYR:OH	2.22	0.58
44:II:192:HIS:CD2	44:II:421:ALA:HA	2.38	0.58
44:IK:275:ILE:HD12	44:IK:368:LEU:HD13	1.85	0.58
45:IL:86:ARG:NH2	45:IL:89:ASN:HA	2.18	0.58
45:IL:290:THR:HG21	45:IL:329:GLN:OE1	2.04	0.58
44:IM:221:ARG:HE	45:IN:321:MET:CE	2.15	0.58
44:JA:174:SER:HB3	44:JA:207:GLU:HB2	1.85	0.58
45:JB:8:GLN:NE2	45:JB:13:GLY:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:32:PRO:HB3	44:JC:83:TYR:CE1	2.39	0.58
45:JD:32:PRO:HG3	45:JD:81:PHE:HE1	1.68	0.58
45:JD:97:ALA:HB2	45:JD:143:THR:HB	1.85	0.58
45:JD:285:THR:HB	45:JD:287:PRO:HD2	1.86	0.58
44:JG:21:TRP:CZ3	44:JG:63:PRO:HB3	2.37	0.58
44:JG:25:CYS:HA	44:JG:30:ILE:HG12	1.84	0.58
44:JK:261:PRO:HA	45:JN:394:PHE:CD2	2.38	0.58
44:JK:265:ILE:HG23	44:JK:432:TYR:CZ	2.37	0.58
44:JK:287:SER:HA	44:JK:373:ARG:NH2	2.18	0.58
44:JM:204:LEU:HD23	44:JM:302:MET:HE1	1.85	0.58
44:JM:288:VAL:HB	44:JM:373:ARG:CD	2.33	0.58
44:JM:311:LYS:HB3	44:JM:343:PHE:C	2.24	0.58
44:KA:257:THR:HA	45:KD:397:TRP:HH2	1.62	0.58
45:KB:107:THR:HG21	45:KB:401:GLU:HG2	1.85	0.58
45:KB:304:ASP:OD1	45:KB:305:PRO:HD2	2.03	0.58
45:KF:139:LEU:HD11	45:KF:168:SER:HB2	1.85	0.58
45:KF:206:ALA:HB3	45:KF:300:MET:O	2.03	0.58
44:KI:9:VAL:HG21	44:KI:150:GLY:HA2	1.85	0.58
44:KI:174:SER:OG	44:KI:175:PRO:HD2	2.03	0.58
44:KI:175:PRO:HB2	44:KI:390:ARG:HH21	1.68	0.58
44:KI:328:VAL:HG22	44:KI:332:ILE:CD1	2.33	0.58
44:KK:179:THR:O	45:KL:350:LYS:HD2	2.03	0.58
44:KK:258:ASN:OD1	45:KN:180:VAL:HG23	2.03	0.58
44:KK:352:LYS:HD2	45:KN:177:ASP:O	2.03	0.58
44:KM:46:ASP:O	44:KM:47:ASP:HB2	2.04	0.58
44:KM:242:LEU:HD11	44:KM:252:ILE:HD11	1.85	0.58
45:KN:65:LEU:HD12	45:KN:90:PHE:CZ	2.38	0.58
45:KN:246:LEU:HD22	45:KN:353:ILE:HD13	1.83	0.58
44:LC:19:ALA:O	44:LC:22:GLU:HG2	2.02	0.58
45:LF:203:ASP:OD2	45:LF:302:ALA:N	2.34	0.58
44:LG:196:GLU:HG2	44:LG:197:HIS:CD2	2.36	0.58
44:LG:338:LYS:CG	44:LG:340:THR:HG22	2.33	0.58
45:LH:165:GLU:OE2	45:LH:250:LEU:HD12	2.04	0.58
45:LH:317:PHE:CD2	45:LH:321:MET:HE1	2.38	0.58
44:LI:67:PHE:HB2	44:LI:92:LEU:CD2	2.33	0.58
44:LI:257:THR:O	44:LI:257:THR:HG22	2.03	0.58
44:LI:319:TYR:HE2	44:LI:328:VAL:HG13	1.69	0.58
45:LJ:105:HIS:CG	45:LJ:150:LEU:HD21	2.38	0.58
45:LL:334:GLN:HG3	45:LL:341:PHE:HD2	1.68	0.58
45:LN:383:GLU:O	45:LN:386:THR:HG22	2.03	0.58
45:MD:161:ASP:OD1	45:MD:162:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:52:PHE:HZ	44:ME:239:THR:HG21	1.68	0.58
44:MG:10:GLY:O	44:MG:14:ILE:HG13	2.03	0.58
45:MH:267:MET:HG3	45:MH:299:MET:CE	2.33	0.58
45:MJ:12:CYS:HB2	48:MJ:502:GDP:C8	2.38	0.58
45:MJ:360:GLY:O	45:MJ:361:LEU:HD23	2.02	0.58
44:MK:147:SER:O	44:MK:151:SER:N	2.31	0.58
45:ML:24:ILE:HD11	45:ML:234:SER:HB2	1.85	0.58
45:ML:330:MET:HE2	45:ML:349:ILE:CG2	2.33	0.58
44:MM:64:ARG:NH1	44:MM:129:CYS:SG	2.77	0.58
44:MM:281:ALA:O	44:MM:284:GLU:HG2	2.03	0.58
45:MN:345:ILE:HG12	45:MN:348:ASN:HB3	1.86	0.58
44:NA:174:SER:HB2	44:NA:177:VAL:HG23	1.85	0.58
44:NA:259:LEU:O	44:NA:268:MET:HE2	2.03	0.58
45:NB:136:THR:HA	45:NB:167:PHE:HB2	1.84	0.58
45:ND:45:GLU:OE1	45:ND:46:ARG:HG2	2.03	0.58
45:ND:131:GLN:C	45:ND:162:ARG:HD2	2.23	0.58
44:NG:398:MET:CE	45:NH:346:PRO:HD2	2.33	0.58
45:NH:22:GLU:HG2	45:NH:81:PHE:CG	2.38	0.58
45:NH:391:ARG:CZ	45:NH:393:ALA:HB3	2.33	0.58
45:NJ:295:ASP:OD2	45:NJ:297:LYS:HE3	2.03	0.58
44:NM:23:LEU:O	44:NM:27:GLU:N	2.35	0.58
44:NM:385:ALA:HB2	44:NM:432:TYR:CD2	2.37	0.58
45:NN:54:ALA:HB3	45:NN:58:ARG:HG3	1.84	0.58
44:OA:62:VAL:HG13	44:OA:64:ARG:HG2	1.84	0.58
45:OB:308:GLY:HA2	45:OB:426:GLN:NE2	2.18	0.58
44:OE:209:ILE:CD1	44:OE:302:MET:HG2	2.33	0.58
45:OH:103:LYS:HA	45:OH:107:THR:OG1	2.02	0.58
45:OH:282:ARG:HG2	45:OH:283:ALA:N	2.17	0.58
45:OH:311:LEU:HD13	45:OH:372:THR:HG23	1.85	0.58
45:OL:46:ARG:O	45:OL:49:VAL:HG22	2.03	0.58
45:ON:318:ARG:HB3	45:ON:357:PRO:CA	2.23	0.58
45:PB:163:ILE:CD1	45:PB:250:LEU:HB2	2.33	0.58
45:PB:185:ALA:O	45:PB:189:VAL:HG23	2.04	0.58
45:PB:256:ASN:C	45:PB:257:LEU:HD12	2.24	0.58
45:PF:7:ILE:HB	45:PF:135:ILE:HD12	1.84	0.58
44:PI:229:ARG:HA	44:PI:232:ALA:HB3	1.85	0.58
44:PK:306:ASP:CG	44:PK:308:ARG:HG2	2.23	0.58
45:QB:73:MET:HE3	45:QB:92:PHE:HB3	1.85	0.58
44:QE:191:THR:O	44:QE:195:LEU:N	2.21	0.58
44:QG:262:TYR:OH	45:QH:391:ARG:O	2.21	0.58
45:QH:253:LEU:O	45:QH:257:LEU:HD13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:1:MET:HE1	45:QJ:94:GLN:HG2	1.84	0.58
44:QI:50:ASN:HA	44:QI:53:PHE:O	2.02	0.58
45:QJ:62:ARG:O	45:QJ:62:ARG:HG3	2.03	0.58
44:QK:296:PHE:HB3	44:QK:341:ILE:CD1	2.34	0.58
45:QL:20:PHE:O	45:QL:24:ILE:HG22	2.04	0.58
44:QM:107:HIS:O	44:QM:107:HIS:ND1	2.36	0.58
44:RA:69:ASP:OD2	44:RA:75:ILE:HG12	2.04	0.58
44:RA:292:THR:O	44:RA:295:ALA:HB3	2.02	0.58
45:RB:11:GLN:O	45:RB:15:GLN:HG2	2.03	0.58
45:RB:207:LEU:HD23	45:RB:300:MET:HB2	1.85	0.58
45:RB:258:ILE:HG13	45:RB:266:PHE:CZ	2.36	0.58
45:RB:313:ALA:HB3	45:RB:349:ILE:HG12	1.84	0.58
45:RD:272:PRO:HA	45:RD:292:GLN:OE1	2.03	0.58
44:RG:52:PHE:HZ	44:RG:239:THR:HG1	1.52	0.58
44:RG:63:PRO:CG	44:RG:86:LEU:HG	2.32	0.58
44:RG:345:ASP:OD2	44:RG:439:THR:HG22	2.03	0.58
44:RG:387:VAL:HA	44:RG:390:ARG:NH1	2.18	0.58
45:RJ:305:PRO:HB3	45:RJ:310:TYR:OH	2.03	0.58
45:RJ:390:ARG:NH1	45:RJ:391:ARG:HE	2.00	0.58
45:RL:180:VAL:HG22	45:RL:180:VAL:O	2.04	0.58
44:RM:154:LEU:HB3	44:RM:197:HIS:CB	2.32	0.58
45:RN:211:CYS:SG	45:RN:215:LEU:HD12	2.42	0.58
45:RN:268:ILE:HG22	45:RN:368:VAL:CG2	2.32	0.58
44:SC:325:PRO:HG3	44:SC:355:ILE:CD1	2.32	0.58
45:SD:166:THR:OG1	45:SD:198:GLU:O	2.21	0.58
45:SD:311:LEU:HA	45:SD:342:VAL:HG12	1.85	0.58
45:SF:318:ARG:NH1	45:SF:358:PRO:HG3	2.16	0.58
44:SG:318:MET:SD	44:SG:354:GLY:HA3	2.43	0.58
45:SH:22:GLU:HG2	45:SH:81:PHE:CD2	2.37	0.58
44:SI:405:VAL:HG13	44:SI:418:PHE:CE2	2.39	0.58
45:SJ:25:SER:HB3	45:SJ:30:ILE:O	2.03	0.58
44:SK:114:ILE:O	44:SK:114:ILE:HG22	2.03	0.58
44:SK:250:VAL:HG11	44:SK:255:PHE:CE1	2.38	0.58
44:SM:161:TYR:HB3	44:SM:164:LYS:HG3	1.84	0.58
45:TD:3:GLU:O	45:TD:130:LEU:HD12	2.03	0.58
44:TE:15:GLN:OE1	44:TE:18:ASN:ND2	2.29	0.58
44:TE:288:VAL:HA	44:TE:291:ILE:CG1	2.33	0.58
45:TF:23:VAL:HG21	45:TF:230:SER:HB3	1.83	0.58
45:TF:101:TRP:CZ3	45:TF:187:LEU:HD13	2.38	0.58
45:TH:58:ARG:NH2	45:UH:281:TYR:HE1	2.02	0.58
45:TH:130:LEU:HD11	45:TH:132:GLY:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:174:LYS:HD2	45:TH:175:VAL:HG13	1.85	0.58
44:TI:4:VAL:HG23	44:TI:134:GLY:O	2.02	0.58
44:TI:188:ILE:HD11	44:TI:391:LEU:HB3	1.85	0.58
45:TJ:178:THR:CG2	45:TJ:180:VAL:HG12	2.33	0.58
44:TK:326:LYS:NZ	45:TL:221:THR:HA	2.18	0.58
45:TL:201:VAL:HG22	45:TL:266:PHE:O	2.04	0.58
44:TM:71:GLU:O	44:TM:74:VAL:HG22	2.02	0.58
45:TN:45:GLU:O	45:TN:46:ARG:HD3	2.03	0.58
45:TN:105:HIS:NE2	45:TN:150:LEU:HB2	2.18	0.58
45:UB:60:VAL:HG21	45:UB:86:ARG:CD	2.33	0.58
45:UB:322:SER:HB2	44:UC:223:THR:HB	1.84	0.58
45:UB:372:THR:CB	45:UB:426:GLN:HB2	2.33	0.58
44:UC:141:VAL:HG11	44:UC:172:TYR:HA	1.84	0.58
44:UC:328:VAL:HG12	44:UC:332:ILE:CG1	2.33	0.58
45:UD:268:ILE:O	45:UD:300:MET:HG2	2.03	0.58
45:UF:143:THR:HG23	48:UF:501:GDP:O1B	2.02	0.58
45:UF:375:GLN:O	45:UF:379:LYS:HG3	2.02	0.58
44:UI:69:ASP:OD1	44:UI:70:LEU:N	2.35	0.58
44:UI:99:ALA:HB2	44:UI:145:THR:HB	1.84	0.58
44:UI:187:SER:O	44:UI:190:SER:OG	2.21	0.58
44:UI:280:LYS:O	44:UI:280:LYS:HG2	2.02	0.58
44:UK:61:HIS:O	44:UK:63:PRO:HD3	2.03	0.58
45:UL:44:LEU:HD11	45:UL:59:TYR:OH	2.03	0.58
45:UL:203:ASP:O	45:UL:207:LEU:HG	2.03	0.58
45:UL:317:PHE:HE2	45:UL:326:VAL:HG22	1.68	0.58
45:UN:64:ILE:HD11	45:UN:123:GLU:HG3	1.84	0.58
45:UN:139:LEU:HD13	45:UN:169:VAL:O	2.03	0.58
45:UN:211:CYS:CA	45:UN:215:LEU:HB2	2.32	0.58
44:VA:138:PHE:HZ	44:VA:235:ILE:HG13	1.68	0.58
44:VA:296:PHE:HE2	44:VA:335:ILE:HG21	1.68	0.58
44:VA:319:TYR:HB2	44:VA:323:VAL:HG11	1.84	0.58
45:VB:2:ARG:HH12	45:VB:240:LEU:HG	1.67	0.58
44:VE:319:TYR:CD2	44:VE:323:VAL:HG11	2.37	0.58
45:VF:7:ILE:HD11	45:VF:120:VAL:HG21	1.83	0.58
45:VF:299:MET:HE1	45:VF:305:PRO:CG	2.32	0.58
44:VG:271:SER:HB2	44:VG:377:MET:SD	2.43	0.58
44:VG:296:PHE:CE2	44:VG:335:ILE:HG21	2.38	0.58
44:VI:207:GLU:O	44:VI:210:TYR:HB2	2.03	0.58
44:VI:291:ILE:HG13	44:VI:292:THR:N	2.18	0.58
44:VI:332:ILE:HD11	44:VI:351:PHE:CD2	2.38	0.58
45:VL:193:VAL:HG23	45:VL:264:HIS:NE2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:355:ASP:O	45:VL:357:PRO:HD3	2.03	0.58
45:VN:112:LEU:O	45:VN:112:LEU:HD23	2.03	0.58
45:WB:312:THR:CA	45:WB:348:ASN:HB2	2.33	0.58
45:WF:256:ASN:HD22	45:WF:350:LYS:HD2	1.68	0.58
44:WG:185:TYR:OH	44:WG:398:MET:HB3	2.03	0.58
44:WG:188:ILE:O	44:WG:191:THR:HG22	2.03	0.58
45:WH:21:TRP:CE3	45:WH:61:PRO:HB3	2.38	0.58
45:WH:133:PHE:HB2	45:WH:164:MET:SD	2.43	0.58
45:WH:290:THR:HG21	45:WH:329:GLN:OE1	2.03	0.58
45:WH:327:ASP:HA	45:WH:330:MET:HE3	1.84	0.58
45:WL:10:GLY:HA3	45:WL:144:GLY:CA	2.33	0.58
45:WL:178:THR:N	45:WL:181:GLU:OE2	2.35	0.58
45:WL:227:HIS:O	45:WL:230:SER:HB2	2.03	0.58
45:WN:70:PRO:HG3	45:WN:92:PHE:CD2	2.38	0.58
45:WN:217:LEU:HD11	45:WN:220:PRO:HG3	1.84	0.58
45:WN:420:SER:O	45:WN:423:GLN:HG3	2.03	0.58
15:0V:24:ARG:CZ	44:MM:430:LYS:HG3	2.32	0.58
2:1A:69:ASN:HB2	44:AE:221:ARG:NH2	2.18	0.58
20:1J:250:LEU:HD23	44:II:280:LYS:CG	2.30	0.58
25:1P:362:LYS:NZ	45:TB:359:LYS:HD3	2.19	0.58
26:1R:380:PRO:HB3	45:ED:280:GLN:OE1	2.02	0.58
16:1X:15:TRP:CE3	45:MH:32:PRO:HG2	2.37	0.58
17:2B:224:PRO:HD3	44:KK:220:GLU:OE1	2.02	0.58
22:2L:753:ARG:HH21	45:BL:362:LYS:HD3	1.68	0.58
13:2T:134:SER:OG	44:MG:126:ALA:HB1	2.02	0.58
2:3A:71:TYR:OH	44:AM:225:THR:HG23	2.02	0.58
37:5D:26:LYS:HB3	45:KN:395:LEU:HD13	1.85	0.58
37:5D:39:ARG:O	44:KK:261:PRO:HD2	2.03	0.58
38:5F:75:PHE:CD2	45:KF:421:GLU:HG3	2.36	0.58
38:5G:33:TYR:OH	44:NG:89:PRO:HG3	2.03	0.58
38:5G:121:GLU:HB3	44:OI:370:LYS:HZ1	1.67	0.58
35:5R:78:ILE:HG21	35:5R:82:GLN:HE21	1.68	0.58
40:6F:23:ILE:HD11	45:IF:48:ASN:CB	2.33	0.58
41:6G:274:ASN:CG	44:UC:117:LEU:HD12	2.24	0.58
11:6Q:34:ILE:CG1	11:6Q:49:ILE:HD12	2.25	0.58
35:7R:336:CYS:HA	35:7R:349:ILE:CB	2.31	0.58
44:AA:421:ALA:O	44:AA:425:LEU:HD23	2.02	0.58
45:AB:320:ARG:O	45:AB:321:MET:HE1	2.03	0.58
45:AD:69:GLU:OE1	45:AD:71:GLY:N	2.37	0.58
44:AE:27:GLU:O	44:AE:28:HIS:ND1	2.36	0.58
45:AF:87:PRO:CD	45:BF:281:TYR:HD2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:242:PHE:CE1	45:AF:356:ILE:HG21	2.39	0.58
44:AG:317:MET:CE	44:AG:319:TYR:HE1	2.16	0.58
45:AH:262:ARG:NH2	45:AH:421:GLU:OE1	2.30	0.58
44:AI:98:ASP:OD1	44:AI:99:ALA:N	2.35	0.58
44:AI:406:HIS:CD2	45:AJ:261:PRO:HD3	2.39	0.58
45:AJ:305:PRO:HB2	45:AJ:310:TYR:OH	2.02	0.58
45:AJ:318:ARG:O	45:AJ:363:MET:HG2	2.03	0.58
44:AM:1:MET:C	44:AM:2:ARG:HD3	2.24	0.58
44:AM:14:ILE:CD1	44:AM:69:ASP:HB2	2.32	0.58
44:BA:183:GLU:HG2	44:BA:184:PRO:HD3	1.84	0.58
44:BC:141:VAL:HG11	44:BC:172:TYR:CD2	2.39	0.58
45:BD:20:PHE:HE2	45:BD:233:MET:CG	2.16	0.58
44:BE:256:GLN:O	44:BE:260:VAL:HG22	2.03	0.58
44:BG:171:ILE:HG12	44:BG:204:LEU:HB2	1.85	0.58
44:BG:296:PHE:HE2	44:BG:335:ILE:HG21	1.67	0.58
45:BJ:274:THR:HG21	45:BJ:279:GLN:CA	2.33	0.58
44:BK:175:PRO:HG3	44:BK:304:LYS:HG2	1.83	0.58
45:BL:211:CYS:SG	45:BL:215:LEU:HD12	2.43	0.58
45:BL:388:MET:HA	45:BL:388:MET:HE2	1.85	0.58
45:BN:113:ILE:HA	45:BN:116:VAL:CG1	2.34	0.58
45:CB:4:ILE:CG2	45:CB:131:GLN:HB3	2.34	0.58
44:CC:118:CYS:O	44:CC:122:ILE:HG12	2.03	0.58
45:CD:325:GLU:HG3	45:CD:329:GLN:HG2	1.84	0.58
44:CE:265:ILE:HG12	44:CE:432:TYR:CD1	2.39	0.58
45:CF:6:HIS:NE2	45:CF:8:GLN:HB3	2.18	0.58
45:CF:258:ILE:HD13	45:CF:266:PHE:HZ	1.67	0.58
45:CJ:178:THR:HG22	45:CJ:179:VAL:N	2.18	0.58
44:CK:112:LYS:CE	44:CK:113:GLU:HG2	2.34	0.58
45:CL:102:ALA:HB2	45:CL:403:MET:HG3	1.85	0.58
45:CL:299:MET:CG	45:CL:305:PRO:HG3	2.33	0.58
44:DA:11:GLN:HB3	46:DA:501:GTP:O2A	2.04	0.58
44:DA:262:TYR:CZ	45:DB:393:ALA:HA	2.38	0.58
44:DA:325:PRO:HG3	44:DA:355:ILE:HD13	1.83	0.58
45:DB:317:PHE:CA	45:DB:365:VAL:HG22	2.24	0.58
44:DE:292:THR:HG21	44:DE:331:SER:OG	2.03	0.58
45:DF:415:MET:O	45:DF:419:VAL:HG23	2.02	0.58
44:DG:76:ASP:OD1	44:DG:79:ARG:NH2	2.36	0.58
44:DG:185:TYR:HE2	44:DG:405:VAL:HG22	1.68	0.58
45:DH:99:ASN:HA	45:DH:142:GLY:CA	2.33	0.58
45:DH:173:PRO:CD	45:DH:380:ARG:HH11	2.16	0.58
45:DH:318:ARG:HH11	45:DH:358:PRO:HG3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:229:ARG:HH12	44:DK:363:VAL:HG21	1.68	0.58
45:DL:170:VAL:HG21	45:DL:378:PHE:CE1	2.38	0.58
44:DM:377:MET:HE2	44:DM:379:SER:HB3	1.84	0.58
44:EA:63:PRO:HG2	44:EA:86:LEU:HG	1.85	0.58
45:EB:217:LEU:O	45:EB:217:LEU:HD12	2.03	0.58
45:EB:294:PHE:HE2	45:EB:341:PHE:HZ	1.49	0.58
44:EC:5:ILE:CG1	44:EC:64:ARG:HB3	2.31	0.58
44:EC:258:ASN:CG	45:ED:179:VAL:HG22	2.24	0.58
45:EF:259:PRO:HA	44:EG:404:PHE:CE1	2.39	0.58
44:EG:76:ASP:OD1	44:EG:79:ARG:NH1	2.36	0.58
44:EG:202:VAL:HG22	44:EG:268:MET:SD	2.43	0.58
45:EJ:97:ALA:CB	45:EJ:143:THR:HB	2.32	0.58
45:EJ:286:VAL:CG1	45:EJ:287:PRO:HD3	2.33	0.58
45:EJ:392:LYS:HG3	45:EJ:395:LEU:CD2	2.33	0.58
44:EK:320:ARG:NH1	44:EK:360:PRO:HB3	2.18	0.58
44:EK:322:ASP:OD1	44:EK:373:ARG:NH1	2.36	0.58
45:EL:270:PHE:CE2	45:EL:273:LEU:HD21	2.39	0.58
44:EM:413:MET:HE1	44:EM:417:GLU:HB2	1.86	0.58
45:EN:11:GLN:HB3	48:EN:501:GDP:O2A	2.02	0.58
45:EN:16:ILE:HD12	45:EN:229:VAL:HB	1.84	0.58
45:EN:310:TYR:HB2	45:EN:341:PHE:CD1	2.38	0.58
44:FC:165:SER:HA	44:FC:199:ASP:OD2	2.03	0.58
44:FE:133:GLN:C	44:FE:164:LYS:HE3	2.23	0.58
44:FE:288:VAL:HA	44:FE:291:ILE:CD1	2.33	0.58
45:FH:199:CYS:HB3	45:FH:265:PHE:CD1	2.38	0.58
44:FK:37:PRO:HG2	44:FK:39:ASP:OD1	2.03	0.58
45:FL:86:ARG:NH2	45:FL:87:PRO:HD2	2.18	0.58
45:FL:133:PHE:HB2	45:FL:164:MET:SD	2.44	0.58
44:FM:100:ALA:HB1	45:FN:252:LYS:CA	2.29	0.58
45:FN:318:ARG:HD3	45:FN:358:PRO:CG	2.33	0.58
45:GB:73:MET:CA	45:GB:76:VAL:HG12	2.30	0.58
45:GB:178:THR:HG22	45:GB:180:VAL:H	1.67	0.58
45:GB:355:ASP:O	45:GB:357:PRO:HD3	2.03	0.58
44:GC:73:THR:HB	45:GD:247:ASN:ND2	2.12	0.58
45:GD:30:ILE:HD11	45:GD:34:GLY:O	2.03	0.58
45:GD:404:ASP:HB2	45:GD:406:MET:HE1	1.84	0.58
44:GE:268:MET:HG3	44:GE:378:ILE:HG22	1.86	0.58
44:GE:387:VAL:HA	44:GE:390:ARG:HG2	1.84	0.58
45:GF:2:ARG:HA	45:GF:131:GLN:HG2	1.85	0.58
44:GG:275:ILE:HG23	44:GG:368:LEU:HD11	1.85	0.58
45:GH:86:ARG:CZ	45:HH:278:SER:HA	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:330:MET:O	45:GH:334:GLN:N	2.36	0.58
44:GI:145:THR:OG1	46:GI:501:GTP:O3B	2.21	0.58
44:GI:236:SER:O	44:GI:240:ALA:HB2	2.04	0.58
44:GI:246:GLY:HA2	44:GI:357:TYR:CD2	2.38	0.58
45:GJ:290:THR:HA	45:GJ:293:MET:HB3	1.85	0.58
44:GK:88:HIS:CE1	44:GK:90:GLU:HB3	2.38	0.58
44:GK:269:LEU:N	44:GK:379:SER:O	2.36	0.58
44:GM:145:THR:HG22	46:GM:501:GTP:O3B	2.03	0.58
45:GN:30:ILE:HD13	45:GN:36:TYR:HA	1.85	0.58
45:GN:34:GLY:O	45:GN:58:ARG:HA	2.03	0.58
44:HA:135:PHE:HB2	44:HA:166:LYS:HG2	1.85	0.58
44:HA:413:MET:CE	44:HA:417:GLU:HG3	2.33	0.58
45:HB:190:HIS:ND1	45:HB:411:ALA:HA	2.18	0.58
45:HB:193:VAL:HG23	45:HB:264:HIS:NE2	2.19	0.58
44:HE:229:ARG:NH1	44:HE:363:VAL:HG21	2.19	0.58
44:HE:261:PRO:HA	45:HH:394:PHE:CE1	2.38	0.58
45:HF:308:GLY:HA3	45:HF:372:THR:CG2	2.34	0.58
44:HG:205:ASP:CG	44:HG:304:LYS:H	2.05	0.58
44:HG:209:ILE:HG12	44:HG:302:MET:HE2	1.85	0.58
44:HK:224:TYR:CD1	45:HL:323:THR:HG21	2.37	0.58
45:HL:286:VAL:HG11	45:HL:325:GLU:OE1	2.03	0.58
45:HL:330:MET:CE	45:HL:349:ILE:HG21	2.32	0.58
44:HM:6:SER:OG	44:HM:136:LEU:HB2	2.02	0.58
44:HM:68:LEU:HD22	44:HM:153:LEU:HD11	1.85	0.58
44:HM:141:VAL:HG11	44:HM:172:TYR:HA	1.85	0.58
45:HN:316:LEU:HB2	45:HN:366:THR:HG22	1.83	0.58
44:IC:71:GLU:OE2	44:IC:73:THR:OG1	2.18	0.58
44:IE:109:THR:HB	44:IE:110:ILE:HD12	1.85	0.58
45:IF:162:ARG:HA	45:IF:162:ARG:HE	1.67	0.58
45:IF:257:LEU:HB3	45:IF:266:PHE:CZ	2.38	0.58
45:IF:284:LEU:HB3	45:IF:363:MET:CE	2.33	0.58
44:IG:195:LEU:O	44:IG:266:HIS:NE2	2.37	0.58
44:IG:261:PRO:HA	45:IJ:394:PHE:CE2	2.38	0.58
44:IG:270:SER:O	44:IG:302:MET:HB3	2.02	0.58
44:II:241:SER:OG	44:II:250:VAL:N	2.28	0.58
45:IJ:237:THR:HG23	45:IJ:241:ARG:HH22	1.67	0.58
44:IK:195:LEU:HD21	44:IK:264:ARG:HH21	1.66	0.58
45:IL:258:ILE:HG23	45:IL:263:LEU:O	2.03	0.58
45:IN:211:CYS:SG	45:IN:220:PRO:HB3	2.43	0.58
44:JA:93:ILE:HD12	44:JA:117:LEU:CD2	2.33	0.58
44:JA:258:ASN:O	45:JD:179:VAL:HG11	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:372:THR:HA	45:JB:422:TYR:CE2	2.38	0.58
45:JB:391:ARG:CD	45:JB:393:ALA:HB2	2.33	0.58
45:JD:86:ARG:HB2	45:JD:89:ASN:HD21	1.66	0.58
44:JE:139:ASN:OD1	44:JE:170:THR:HG22	2.03	0.58
44:JG:84:ARG:HG3	44:JG:85:GLN:HG3	1.85	0.58
45:JJ:169:VAL:O	45:JJ:169:VAL:HG23	2.04	0.58
45:JJ:410:GLU:OE2	45:NJ:340:TYR:OH	2.20	0.58
44:JK:258:ASN:O	45:JN:179:VAL:HG21	2.04	0.58
45:JL:100:ASN:HB3	45:JL:103:LYS:HD3	1.84	0.58
45:JL:209:ASP:OD1	45:JL:213:ARG:NH2	2.36	0.58
45:JL:226:ASN:O	45:JL:229:VAL:HG12	2.03	0.58
45:JN:385:PHE:CE1	45:JN:412:GLU:HB3	2.38	0.58
45:KB:187:LEU:HD23	45:KB:411:ALA:CB	2.34	0.58
45:KD:167:PHE:HE1	45:KD:233:MET:HB2	1.68	0.58
45:KD:418:LEU:HA	45:KD:421:GLU:HG2	1.85	0.58
44:KG:90:GLU:CG	44:KG:121:ARG:HH12	2.16	0.58
44:KG:313:MET:HB3	44:KG:380:ASN:O	2.03	0.58
44:KG:324:VAL:HG21	44:KG:326:LYS:NZ	2.18	0.58
45:KH:109:GLY:O	45:KH:113:ILE:HG23	2.04	0.58
45:KJ:313:ALA:HB1	45:KJ:367:PHE:CE1	2.38	0.58
45:KL:181:GLU:HG3	45:KL:182:PRO:HD3	1.85	0.58
44:KM:141:VAL:CG1	44:KM:187:SER:HA	2.33	0.58
44:KM:177:VAL:CG2	45:KN:327:ASP:HB3	2.34	0.58
44:KM:195:LEU:O	44:KM:266:HIS:NE2	2.24	0.58
44:LA:311:LYS:HG3	44:LA:342:GLN:NE2	2.17	0.58
44:LA:378:ILE:O	44:LA:378:ILE:HG23	2.02	0.58
44:LC:54:SER:HB3	44:LC:64:ARG:CZ	2.33	0.58
44:LC:241:SER:HA	44:LC:356:ASN:ND2	2.19	0.58
44:LC:258:ASN:ND2	44:LC:352:LYS:HD2	2.17	0.58
44:LE:215:ARG:HG2	44:LE:216:ASN:OD1	2.03	0.58
45:LF:181:GLU:CG	45:LF:182:PRO:HD3	2.34	0.58
44:LG:88:HIS:ND1	44:LG:89:PRO:HD2	2.17	0.58
45:LJ:61:PRO:HG2	45:LJ:84:LEU:HB3	1.84	0.58
45:LJ:181:GLU:CG	45:LJ:182:PRO:HD3	2.33	0.58
45:LN:269:GLY:HA2	45:LN:300:MET:CE	2.33	0.58
45:LN:318:ARG:HD2	45:LN:358:PRO:CG	2.33	0.58
44:MA:120:ASP:O	44:MA:123:ARG:HG3	2.02	0.58
44:ME:188:ILE:CA	44:ME:393:HIS:HA	2.26	0.58
44:ME:221:ARG:NH2	45:MF:323:THR:HA	2.18	0.58
45:MF:67:ASP:OD2	45:MF:72:THR:HG21	2.03	0.58
45:MF:175:VAL:CG2	45:MF:205:GLU:HB2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:109:THR:HB	44:MG:110:ILE:HD12	1.84	0.58
44:MG:123:ARG:HD2	44:MG:124:LYS:N	2.18	0.58
44:MI:11:GLN:HG2	44:MI:74:VAL:HG11	1.85	0.58
44:MK:7:ILE:HD12	44:MK:66:VAL:CG2	2.34	0.58
45:ML:286:VAL:HB	45:ML:325:GLU:HG2	1.85	0.58
44:MM:88:HIS:CE1	44:MM:90:GLU:HG2	2.38	0.58
45:MN:49:VAL:HG11	45:MN:241:ARG:CG	2.34	0.58
45:ND:3:GLU:CG	45:ND:127:CYS:HB2	2.33	0.58
45:ND:170:VAL:HG23	45:ND:171:PRO:HD2	1.84	0.58
44:NE:66:VAL:HG22	44:NE:68:LEU:CD1	2.34	0.58
44:NE:103:PHE:HD1	44:NE:413:MET:HE1	1.68	0.58
44:NG:221:ARG:NH1	45:NH:322:SER:HB3	2.18	0.58
45:NH:259:PRO:HG2	45:NH:311:LEU:HD13	1.84	0.58
44:NI:288:VAL:HG13	44:NI:373:ARG:HD3	1.85	0.58
44:NI:332:ILE:HG23	44:NI:351:PHE:CD2	2.39	0.58
45:NL:323:THR:CG2	45:NL:353:ILE:HG13	2.31	0.58
44:OA:90:GLU:OE1	44:OA:121:ARG:HD3	2.03	0.58
45:OB:156:ARG:CD	45:OB:195:ASN:HB3	2.34	0.58
44:OC:21:TRP:CZ2	44:OC:65:ALA:HB2	2.37	0.58
44:OC:138:PHE:CZ	44:OC:235:ILE:HD12	2.37	0.58
44:OI:2:ARG:O	44:OI:51:THR:HA	2.04	0.58
44:OM:7:ILE:O	44:OM:138:PHE:HB2	2.04	0.58
45:ON:220:PRO:HA	45:ON:224:ASP:OD2	2.04	0.58
44:PA:248:LEU:HD23	44:PA:353:VAL:O	2.04	0.58
45:PB:193:VAL:HG23	45:PB:418:LEU:HD22	1.86	0.58
44:PC:172:TYR:HB3	44:PC:173:PRO:HD2	1.85	0.58
44:PC:205:ASP:CG	44:PC:304:LYS:H	2.06	0.58
45:PD:52:ASN:H	45:PD:62:ARG:CZ	2.16	0.58
45:PD:203:ASP:HB3	45:PD:205:GLU:CD	2.23	0.58
44:PE:16:VAL:HG12	44:PE:228:ASN:ND2	2.18	0.58
44:PE:301:MET:HE2	44:PE:303:ALA:O	2.04	0.58
45:PF:133:PHE:HB2	45:PF:164:MET:HE3	1.85	0.58
45:PF:139:LEU:O	45:PF:145:SER:HB3	2.03	0.58
44:PG:289:ALA:O	44:PG:292:THR:HG22	2.04	0.58
44:PG:349:THR:OG1	45:PJ:384:GLN:OE1	2.21	0.58
45:PH:63:ALA:O	45:PH:64:ILE:HD13	2.03	0.58
44:PI:22:GLU:HG3	44:PI:83:TYR:HE2	1.68	0.58
44:PI:339:ARG:HG3	44:PI:339:ARG:O	2.03	0.58
45:PJ:4:ILE:HD11	45:PJ:50:TYR:OH	2.03	0.58
45:PJ:16:ILE:O	45:PJ:19:LYS:N	2.30	0.58
44:PM:273:ALA:HB1	44:PM:274:PRO:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:248:SER:OG	45:QD:253:LEU:HD12	2.03	0.58
44:QE:9:VAL:HG21	44:QE:149:LEU:HB2	1.85	0.58
44:QE:288:VAL:CG1	44:QE:327:ASP:HB3	2.28	0.58
44:QG:1:MET:CE	45:QH:94:GLN:HG2	2.32	0.58
44:QM:241:SER:OG	44:QM:250:VAL:HB	2.04	0.58
45:QN:116:VAL:O	45:QN:119:VAL:HG12	2.03	0.58
44:RA:265:ILE:CD1	44:RA:435:VAL:HG21	2.33	0.58
45:RB:73:MET:HA	45:RB:76:VAL:HG12	1.84	0.58
45:RB:105:HIS:HD2	45:RB:146:GLY:HA2	1.68	0.58
45:RB:399:THR:HA	45:RB:403:MET:O	2.04	0.58
44:RC:194:LEU:HB2	44:RC:198:THR:HG22	1.86	0.58
44:RC:340:THR:HG23	44:RC:341:ILE:HG13	1.86	0.58
45:RD:271:ALA:HB2	45:RD:298:ASN:ND2	2.19	0.58
44:RE:26:LEU:HD22	44:RE:364:PRO:HD2	1.85	0.58
44:RG:88:HIS:ND1	44:RG:90:GLU:HG2	2.18	0.58
45:RH:86:ARG:HH11	45:RH:89:ASN:HD21	1.51	0.58
45:RH:187:LEU:HD21	45:RH:408:PHE:HE1	1.68	0.58
45:RH:363:MET:SD	45:RH:364:ALA:N	2.76	0.58
44:RI:324:VAL:HG13	44:RI:326:LYS:HG3	1.86	0.58
45:RJ:207:LEU:O	45:RJ:210:ILE:HB	2.04	0.58
44:RK:21:TRP:O	44:RK:25:CYS:N	2.20	0.58
44:RK:71:GLU:CD	44:RK:73:THR:H	2.07	0.58
44:RK:268:MET:HG2	44:RK:380:ASN:CA	2.33	0.58
45:RL:272:PRO:HG3	45:RL:284:LEU:HD21	1.85	0.58
44:RM:257:THR:HG22	45:RN:397:TRP:CZ2	2.38	0.58
44:SA:5:ILE:CD1	44:SA:125:LEU:HB3	2.34	0.58
45:SB:104:GLY:HA3	45:SB:143:THR:HG22	1.84	0.58
45:SD:44:LEU:O	45:SD:47:ILE:HG22	2.02	0.58
45:SF:192:LEU:HD21	45:SF:199:CYS:SG	2.44	0.58
45:SF:204:ASN:HA	45:SF:207:LEU:HG	1.85	0.58
45:SH:238:CYS:HB2	45:SH:318:ARG:NH2	2.19	0.58
44:SI:183:GLU:N	44:SI:184:PRO:HD2	2.19	0.58
44:SI:291:ILE:HG13	44:SI:292:THR:N	2.19	0.58
45:SJ:2:ARG:NH2	45:SJ:240:LEU:O	2.35	0.58
45:SJ:20:PHE:O	45:SJ:24:ILE:HG12	2.02	0.58
45:SL:185:ALA:O	45:SL:189:VAL:HG22	2.03	0.58
45:SL:259:PRO:HG3	44:SM:404:PHE:CZ	2.38	0.58
45:TB:61:PRO:HD2	45:TB:84:LEU:O	2.03	0.58
45:TB:121:ARG:HH12	45:TB:124:ALA:HB3	1.68	0.58
45:TB:258:ILE:O	45:TB:258:ILE:HG23	2.03	0.58
45:TD:341:PHE:HB3	45:TD:348:ASN:ND2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:347:ASN:O	44:TE:181:VAL:HG12	2.04	0.58
45:TD:406:MET:O	45:TD:410:GLU:HG3	2.03	0.58
44:TE:209:ILE:HG12	44:TE:302:MET:HE3	1.84	0.58
45:TF:258:ILE:HG13	45:TF:266:PHE:HZ	1.68	0.58
45:TH:290:THR:HG21	45:TH:329:GLN:OE1	2.02	0.58
44:TI:63:PRO:HG2	44:TI:86:LEU:HD11	1.85	0.58
45:TJ:21:TRP:CZ3	45:TJ:61:PRO:HB3	2.39	0.58
45:TJ:105:HIS:CE1	45:TJ:150:LEU:HD12	2.38	0.58
44:TK:107:HIS:ND1	44:TK:107:HIS:O	2.36	0.58
44:TK:151:SER:HB3	44:TK:193:SER:CB	2.34	0.58
45:TL:295:ASP:OD1	45:TL:297:LYS:HG2	2.03	0.58
44:TM:19:ALA:HA	44:TM:22:GLU:OE1	2.02	0.58
44:UA:115:VAL:HG21	44:UA:156:ARG:HD2	1.84	0.58
44:UA:137:VAL:HG12	44:UA:168:GLY:HA2	1.85	0.58
45:UB:314:SER:HA	45:UB:350:LYS:HB3	1.84	0.58
44:UC:320:ARG:C	44:UC:359:PRO:HA	2.24	0.58
44:UC:348:PRO:HD2	45:UD:388:MET:CE	2.34	0.58
44:UE:184:PRO:HB3	44:UE:394:LYS:CE	2.33	0.58
45:UF:282:ARG:NE	45:UF:282:ARG:HA	2.18	0.58
45:UJ:4:ILE:CG2	45:UJ:131:GLN:HB3	2.33	0.58
44:UK:10:GLY:O	44:UK:14:ILE:HG13	2.04	0.58
44:UK:353:VAL:HG12	45:UL:177:ASP:HB3	1.83	0.58
45:UL:112:LEU:O	45:UL:112:LEU:HD23	2.03	0.58
45:UL:304:ASP:OD1	45:UL:305:PRO:HD2	2.03	0.58
45:UN:224:ASP:O	45:UN:227:HIS:HB3	2.03	0.58
44:VA:66:VAL:HG22	44:VA:68:LEU:CD1	2.33	0.58
44:VA:307:PRO:HB3	44:VA:312:TYR:OH	2.03	0.58
45:VB:20:PHE:O	45:VB:24:ILE:HG12	2.04	0.58
44:VE:269:LEU:H	44:VE:269:LEU:HD23	1.69	0.58
44:VE:293:ASN:O	44:VE:297:GLU:HG3	2.03	0.58
45:VF:100:ASN:OD1	45:VF:103:LYS:HB3	2.03	0.58
45:VF:189:VAL:O	45:VF:193:VAL:HG12	2.03	0.58
44:VG:333:ALA:O	44:VG:337:THR:N	2.36	0.58
45:VH:173:PRO:HG3	45:VH:380:ARG:HD3	1.85	0.58
44:VI:326:LYS:HG2	45:VL:220:PRO:HD2	1.84	0.58
45:VJ:327:ASP:O	45:VJ:330:MET:N	2.36	0.58
44:VM:181:VAL:HG12	45:VN:348:ASN:C	2.24	0.58
45:VN:246:LEU:CD1	45:VN:353:ILE:HD13	2.32	0.58
44:WA:224:TYR:HB3	46:WA:501:GTP:O6	2.02	0.58
44:WA:241:SER:HG	44:WA:250:VAL:H	1.46	0.58
45:WB:315:ALA:HB1	45:WB:317:PHE:HE1	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:25:SER:CA	45:WD:30:ILE:HB	2.34	0.58
45:WF:139:LEU:HD23	45:WF:185:ALA:CB	2.32	0.58
45:WH:256:ASN:CG	45:WH:350:LYS:HD2	2.24	0.58
44:WI:210:TYR:CG	45:WJ:324:LYS:HD2	2.39	0.58
44:WI:407:TRP:CZ3	45:WJ:255:VAL:HG13	2.37	0.58
5:OD:94:ASN:HD21	44:EC:26:LEU:HD13	1.68	0.58
6:OE:61:LYS:HE2	45:DB:37:HIS:HB2	1.85	0.58
9:1H:252:ARG:HG3	44:HE:31:GLN:HA	1.85	0.58
22:1L:643:ARG:HB3	45:CD:362:LYS:HZ3	1.66	0.58
26:1R:385:PHE:CD2	45:ED:215:LEU:HD22	2.39	0.58
13:1T:82:ALA:HB3	44:MC:412:GLY:HA2	1.83	0.58
13:1T:146:MET:HE1	45:MF:402:GLY:H	1.68	0.58
13:1T:225:SER:HB3	44:MC:196:GLU:OE1	2.02	0.58
15:1V:27:TYR:CE2	44:MI:433:GLU:HG3	2.37	0.58
15:1V:168:LEU:HD11	44:MK:422:ARG:HG2	1.85	0.58
25:2P:439:HIS:CG	44:TK:282:TYR:HE2	2.22	0.58
26:3R:407:PHE:HB3	44:DK:58:ALA:CB	2.33	0.58
38:5E:202:LYS:HE2	44:LC:422:ARG:HH22	1.64	0.58
38:5F:175:SER:O	38:5F:179:TYR:N	2.27	0.58
38:5H:77:LYS:HD2	38:5H:80:LYS:HB2	1.84	0.58
39:5J:19:MET:HA	39:5J:22:TRP:HE3	1.69	0.58
35:5R:79:PRO:HB2	44:MI:35:GLN:NE2	2.18	0.58
35:7R:547:GLU:HG2	35:7R:551:LEU:HD11	1.85	0.58
42:8N:342:UNK:O	42:8N:346:UNK:N	2.35	0.58
44:AA:178:SER:OG	45:AB:347:ASN:HB3	2.03	0.58
45:AB:287:PRO:HA	45:AB:329:GLN:NE2	2.17	0.58
44:AC:268:MET:HG3	44:AC:378:ILE:CG2	2.34	0.58
45:AD:321:MET:HB3	45:AD:363:MET:CE	2.33	0.58
44:AE:296:PHE:CE2	44:AE:335:ILE:HG21	2.38	0.58
45:AF:7:ILE:HD12	45:AF:64:ILE:O	2.03	0.58
44:AG:237:SER:HA	44:AG:320:ARG:NH1	2.18	0.58
45:AH:169:VAL:HA	45:AH:202:ILE:O	2.03	0.58
45:AH:193:VAL:HA	45:AH:264:HIS:CE1	2.39	0.58
45:AH:317:PHE:CD2	45:AH:321:MET:HE1	2.39	0.58
45:AJ:31:ASP:HB3	45:AJ:32:PRO:CD	2.34	0.58
44:AK:258:ASN:ND2	44:AK:352:LYS:HD3	2.19	0.58
45:BF:184:ASN:OD1	45:BF:185:ALA:N	2.37	0.58
44:BG:261:PRO:HG3	44:BG:313:MET:HE2	1.84	0.58
44:BK:256:GLN:O	45:BN:397:TRP:HZ2	1.87	0.58
44:BK:256:GLN:O	45:BN:397:TRP:CZ2	2.57	0.58
44:BM:312:TYR:O	44:BM:344:VAL:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:134:GLN:O	45:BN:135:ILE:HD13	2.04	0.58
44:CA:316:SER:N	44:CA:378:ILE:O	2.18	0.58
45:CB:256:ASN:HB3	45:CB:350:LYS:HD2	1.84	0.58
44:CC:390:ARG:HG3	44:CC:391:LEU:HD12	1.84	0.58
44:CE:288:VAL:HA	44:CE:291:ILE:CD1	2.34	0.58
45:CF:214:THR:O	45:CF:216:LYS:HG3	2.04	0.58
45:CF:395:LEU:O	45:CF:399:THR:HG23	2.03	0.58
44:CM:428:LEU:HG	44:CM:432:TYR:HE2	1.68	0.58
45:CN:139:LEU:HD23	45:CN:185:ALA:HA	1.85	0.58
44:DA:72:PRO:O	44:DA:75:ILE:HG22	2.03	0.58
45:DB:134:GLN:HA	45:DB:165:GLU:CB	2.33	0.58
44:DC:433:GLU:O	44:DC:437:ILE:HG23	2.03	0.58
45:DD:332:ASN:O	45:DD:336:LYS:HG2	2.02	0.58
44:DE:2:ARG:CB	44:DE:242:LEU:HD11	2.34	0.58
45:DH:206:ALA:HB1	45:DH:210:ILE:CD1	2.34	0.58
44:DK:288:VAL:HG21	44:DK:323:VAL:CG2	2.31	0.58
45:DL:285:THR:HB	45:DL:287:PRO:HD2	1.85	0.58
44:EA:279:GLU:C	44:EA:280:LYS:HD3	2.24	0.58
44:EA:381:SER:O	44:EA:384:ILE:HG22	2.02	0.58
45:EB:22:GLU:HG2	45:EB:81:PHE:CG	2.37	0.58
45:EB:28:HIS:HB2	45:EB:30:ILE:CD1	2.34	0.58
45:EB:165:GLU:OE2	45:EB:250:LEU:HD13	2.03	0.58
44:EC:385:ALA:HB2	44:EC:432:TYR:CD2	2.38	0.58
45:ED:405:GLU:O	45:ED:409:THR:N	2.29	0.58
44:EE:228:ASN:OD1	44:EE:229:ARG:N	2.37	0.58
45:EF:174:LYS:HD3	45:EF:205:GLU:HG3	1.86	0.58
44:EG:91:GLN:O	44:EG:93:ILE:HD12	2.03	0.58
45:EH:101:TRP:HB2	45:EH:184:ASN:HB3	1.84	0.58
45:EH:178:THR:CG2	45:EH:180:VAL:HG12	2.33	0.58
45:EH:289:LEU:HD21	45:EH:363:MET:SD	2.42	0.58
45:EJ:286:VAL:HA	45:EJ:363:MET:HE2	1.85	0.58
45:EJ:323:THR:HA	45:EJ:326:VAL:HB	1.86	0.58
44:EK:275:ILE:HG23	44:EK:368:LEU:HD21	1.85	0.58
45:EL:341:PHE:HD2	45:EL:348:ASN:HD21	1.51	0.58
45:EL:348:ASN:HA	44:EM:181:VAL:CG1	2.34	0.58
45:EL:420:SER:O	45:EL:423:GLN:HG3	2.03	0.58
44:EM:122:ILE:HG13	44:EM:123:ARG:N	2.18	0.58
44:FA:69:ASP:OD1	44:FA:70:LEU:N	2.33	0.58
45:FB:193:VAL:HG23	45:FB:264:HIS:CE1	2.39	0.58
44:FC:206:ASN:O	44:FC:209:ILE:N	2.36	0.58
45:FD:253:LEU:HD21	45:FD:316:LEU:CD2	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:163:LYS:HB3	44:FG:163:LYS:NZ	2.19	0.58
45:FH:7:ILE:HG13	45:FH:64:ILE:HD13	1.84	0.58
44:FI:20:CYS:HA	44:FI:232:ALA:CB	2.34	0.58
44:FI:221:ARG:NH1	45:FJ:325:GLU:H	2.01	0.58
44:FI:334:THR:HG22	44:FI:338:LYS:HZ3	1.69	0.58
45:FJ:86:ARG:NH2	45:GJ:278:SER:HB2	2.19	0.58
45:FL:173:PRO:HG2	45:FL:380:ARG:HD3	1.85	0.58
44:FM:393:HIS:O	44:FM:397:LEU:HG	2.04	0.58
44:GA:236:SER:HA	44:GA:239:THR:OG1	2.03	0.58
45:GB:105:HIS:CE1	45:GB:150:LEU:HD12	2.39	0.58
44:GE:221:ARG:NE	45:GF:325:GLU:OE1	2.37	0.58
45:GH:139:LEU:CD1	45:GH:188:SER:HB2	2.27	0.58
45:GJ:7:ILE:HB	45:GJ:135:ILE:HG13	1.85	0.58
45:GJ:178:THR:CG2	45:GJ:180:VAL:HG12	2.33	0.58
44:GK:103:PHE:HA	44:GK:144:GLY:CA	2.32	0.58
45:GN:68:LEU:HD23	45:GN:97:ALA:N	2.18	0.58
45:GN:263:LEU:HG	45:GN:422:TYR:CD1	2.38	0.58
44:HA:14:ILE:CG1	44:HA:75:ILE:HD11	2.33	0.58
44:HA:234:VAL:HG22	44:HA:376:CYS:SG	2.43	0.58
44:HA:247:ALA:HB2	44:HA:357:TYR:OH	2.03	0.58
45:HB:316:LEU:H	45:HB:365:VAL:HG13	1.68	0.58
44:HC:202:VAL:HA	44:HC:268:MET:O	2.04	0.58
44:HC:250:VAL:HG13	44:HC:254:GLU:CB	2.31	0.58
44:HC:271:SER:OG	44:HC:301:MET:HG3	2.03	0.58
44:HE:371:VAL:HG12	44:HE:372:MET:N	2.19	0.58
45:HH:42:LEU:CA	45:HH:45:GLU:HG3	2.25	0.58
44:HI:195:LEU:HG	44:HI:264:ARG:HH12	1.67	0.58
45:HL:103:LYS:HA	45:HL:107:THR:HG22	1.85	0.58
45:IB:332:ASN:OD1	45:IB:336:LYS:HG2	2.02	0.58
45:IF:390:ARG:HD2	45:IF:391:ARG:CG	2.31	0.58
44:IG:407:TRP:HZ3	45:IH:255:VAL:HG22	1.68	0.58
44:II:276:ILE:HB	44:II:281:ALA:CB	2.34	0.58
45:IJ:21:TRP:CZ3	45:IJ:61:PRO:HB3	2.37	0.58
45:IJ:248:SER:CB	45:IJ:252:LYS:HD2	2.32	0.58
44:IK:88:HIS:HE1	44:IK:90:GLU:HG2	1.66	0.58
45:IL:86:ARG:HD2	45:IL:87:PRO:O	2.04	0.58
44:IM:185:TYR:OH	44:IM:398:MET:HB3	2.04	0.58
44:JE:84:ARG:HH11	44:JE:85:GLN:HE22	1.50	0.58
44:JE:273:ALA:HA	44:JE:275:ILE:CD1	2.31	0.58
44:JI:98:ASP:HB3	45:JJ:249:ASP:OD2	2.02	0.58
45:JJ:86:ARG:HA	45:KJ:281:TYR:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:267:MET:N	45:JJ:369:GLY:O	2.34	0.58
44:KA:56:THR:CA	44:LA:285:GLN:HG2	2.30	0.58
45:KD:274:THR:OG1	45:KD:282:ARG:NE	2.32	0.58
45:KH:193:VAL:HG23	45:KH:264:HIS:CE1	2.38	0.58
44:KI:241:SER:CA	44:KI:356:ASN:HD21	2.17	0.58
44:KI:313:MET:HB3	44:KI:380:ASN:O	2.03	0.58
44:LC:270:SER:O	44:LC:302:MET:HB3	2.03	0.58
45:LD:370:ASN:OD1	45:LD:422:TYR:OH	2.21	0.58
44:LG:205:ASP:OD1	44:LG:303:ALA:HA	2.03	0.58
44:LG:337:THR:O	44:LG:339:ARG:NH1	2.37	0.58
45:LJ:2:ARG:HH12	45:LJ:46:ARG:HH12	1.51	0.58
45:LL:112:LEU:O	45:LL:112:LEU:HD23	2.04	0.58
45:LL:145:SER:O	45:LL:149:THR:HG22	2.04	0.58
44:LM:316:SER:N	44:LM:378:ILE:O	2.28	0.58
45:LN:279:GLN:O	45:LN:279:GLN:HG2	2.04	0.58
44:MA:320:ARG:HA	44:MA:356:ASN:O	2.04	0.58
45:MB:40:SER:O	45:MB:43:GLN:HB2	2.03	0.58
45:MB:66:MET:HE2	45:MB:151:LEU:HD13	1.85	0.58
44:ME:16:VAL:O	44:ME:20:CYS:N	2.26	0.58
44:ME:212:ILE:HD12	44:ME:300:ASN:OD1	2.03	0.58
44:ME:356:ASN:OD1	44:ME:357:TYR:N	2.36	0.58
45:MF:12:CYS:HB3	45:MF:138:SER:HB2	1.84	0.58
45:MF:28:HIS:HE2	45:MF:241:ARG:HH11	1.52	0.58
45:MF:198:GLU:OE2	45:MF:254:ALA:HB2	2.04	0.58
44:MG:38:SER:OG	44:MG:39:ASP:N	2.36	0.58
45:MH:67:ASP:OD1	45:MH:68:LEU:N	2.33	0.58
45:MH:244:GLY:HA2	45:MH:355:ASP:OD2	2.04	0.58
45:MH:288:GLU:O	45:MH:291:GLN:HG3	2.02	0.58
45:MJ:344:TRP:CZ3	45:MJ:345:ILE:HB	2.37	0.58
44:MM:107:HIS:ND1	44:MM:107:HIS:O	2.37	0.58
44:MM:210:TYR:HB3	45:MN:324:LYS:HZ3	1.68	0.58
45:NB:303:ALA:HA	45:NB:376:GLU:OE2	2.03	0.58
44:NC:141:VAL:HG23	44:NC:190:SER:CB	2.32	0.58
44:NE:135:PHE:HE2	44:NE:157:LEU:HD12	1.69	0.58
44:NK:33:ASP:O	44:NK:60:LYS:NZ	2.23	0.58
44:NK:222:PRO:HD2	45:NL:324:LYS:CE	2.33	0.58
45:NL:2:ARG:NH1	45:NL:240:LEU:HG	2.18	0.58
44:NM:291:ILE:HG21	44:NM:373:ARG:CG	2.34	0.58
45:NN:101:TRP:CZ3	45:NN:145:SER:HB2	2.37	0.58
45:OB:30:ILE:HG12	45:OB:36:TYR:HA	1.85	0.58
45:OB:318:ARG:HA	45:OB:354:CYS:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:284:GLU:HG3	44:OC:286:LEU:H	1.68	0.58
44:OE:224:TYR:CE1	45:OF:323:THR:HG21	2.38	0.58
45:OF:121:ARG:NH2	45:OF:158:GLU:OE2	2.35	0.58
45:OF:252:LYS:HG2	45:OF:256:ASN:OD1	2.03	0.58
45:OH:8:GLN:OE1	45:OH:17:GLY:HA3	2.03	0.58
45:OH:166:THR:OG1	45:OH:199:CYS:HA	2.03	0.58
45:OH:272:PRO:HD3	45:OH:364:ALA:HA	1.85	0.58
44:OI:88:HIS:O	44:OI:91:GLN:HG2	2.03	0.58
44:OI:167:LEU:CD1	44:OI:200:VAL:HB	2.33	0.58
45:OJ:134:GLN:HA	45:OJ:165:GLU:O	2.04	0.58
45:OL:215:LEU:CB	45:OL:217:LEU:HG	2.29	0.58
45:OL:313:ALA:HB3	45:OL:349:ILE:HG13	1.86	0.58
44:OM:51:THR:HG22	44:OM:52:PHE:CD1	2.38	0.58
44:OM:231:ILE:HG22	44:OM:235:ILE:CD1	2.33	0.58
44:OM:331:SER:O	44:OM:335:ILE:HG12	2.02	0.58
44:PA:207:GLU:O	44:PA:210:TYR:HB2	2.03	0.58
45:PB:53:GLU:OE2	45:PB:57:GLY:HA2	2.03	0.58
44:PC:172:TYR:HB2	44:PC:203:MET:HE1	1.86	0.58
45:PD:317:PHE:CB	45:PD:353:ILE:HG13	2.29	0.58
45:PH:87:PRO:HA	45:PH:90:PHE:HD2	1.67	0.58
45:PH:174:LYS:HD2	45:PH:175:VAL:HG13	1.86	0.58
44:PI:183:GLU:N	44:PI:184:PRO:HD2	2.18	0.58
45:PJ:34:GLY:O	45:PJ:58:ARG:HA	2.03	0.58
45:PN:4:ILE:HG22	45:PN:131:GLN:HB3	1.85	0.58
45:PN:101:TRP:CZ3	45:PN:188:SER:HB3	2.37	0.58
45:PN:137:HIS:O	45:PN:168:SER:HA	2.03	0.58
44:QA:4:VAL:HG23	44:QA:134:GLY:O	2.03	0.58
44:QA:188:ILE:HD11	44:QA:425:LEU:HD21	1.82	0.58
44:QA:308:ARG:HA	44:QA:308:ARG:HH11	1.68	0.58
44:QA:352:LYS:HD2	45:QB:177:ASP:O	2.04	0.58
45:QB:12:CYS:HB3	45:QB:138:SER:CB	2.32	0.58
45:QD:18:ALA:O	45:QD:22:GLU:HG3	2.03	0.58
44:QE:254:GLU:HG2	45:QF:98:GLY:CA	2.29	0.58
44:QE:258:ASN:HD22	44:QE:352:LYS:CB	2.16	0.58
45:QF:167:PHE:CE2	45:QF:233:MET:HG2	2.38	0.58
44:QG:136:LEU:CD2	44:QG:167:LEU:HB2	2.34	0.58
44:QG:313:MET:SD	44:QG:380:ASN:HB3	2.42	0.58
45:QH:201:VAL:HG23	45:QH:301:CYS:SG	2.43	0.58
45:QJ:247:ASN:H	44:QK:11:GLN:HE22	1.50	0.58
44:QK:88:HIS:H	44:QK:91:GLN:NE2	2.02	0.58
44:QK:321:GLY:O	44:QK:357:TYR:HA	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:369:ALA:O	44:QK:371:VAL:HG13	2.04	0.58
45:QL:2:ARG:NH2	44:QM:71:GLU:OE2	2.36	0.58
45:QL:47:ILE:HG12	45:QL:51:TYR:HB2	1.85	0.58
45:QN:133:PHE:O	45:QN:165:GLU:N	2.35	0.58
45:QN:226:ASN:HD21	48:QN:501:GDP:HN1	1.51	0.58
45:QN:254:ALA:HA	45:QN:258:ILE:CD1	2.33	0.58
44:RA:258:ASN:CG	45:RB:179:VAL:HG22	2.24	0.58
45:RD:42:LEU:HD22	45:RD:356:ILE:HD11	1.85	0.58
45:RD:321:MET:HB2	44:RE:221:ARG:NH2	2.18	0.58
44:RE:332:ILE:HA	44:RE:335:ILE:CD1	2.26	0.58
45:RF:372:THR:HA	45:RF:422:TYR:OH	2.03	0.58
45:RH:14:ASN:HD21	45:RH:67:ASP:HB2	1.68	0.58
45:RH:139:LEU:HD22	45:RH:170:VAL:CG1	2.33	0.58
44:RI:230:LEU:HD12	44:RI:275:ILE:HD13	1.84	0.58
44:RI:252:ILE:HD13	44:RI:255:PHE:HE2	1.67	0.58
44:RI:275:ILE:HA	44:RI:368:LEU:CD1	2.30	0.58
44:RI:324:VAL:CG2	44:RI:325:PRO:HD2	2.33	0.58
45:RJ:252:LYS:CA	44:RK:100:ALA:HB1	2.32	0.58
45:RL:70:PRO:HD2	45:RL:71:GLY:N	2.18	0.58
45:RL:86:ARG:HH12	45:SL:278:SER:HB2	1.68	0.58
44:RM:167:LEU:HD21	44:RM:255:PHE:HD2	1.68	0.58
44:SC:220:GLU:HG3	44:SC:221:ARG:N	2.17	0.58
45:SD:20:PHE:HB2	45:SD:233:MET:CE	2.32	0.58
44:SE:2:ARG:HB2	44:SE:133:GLN:NE2	2.19	0.58
44:SG:107:HIS:CG	44:SG:152:LEU:HD21	2.39	0.58
45:SH:262:ARG:C	45:SH:263:LEU:HD22	2.22	0.58
45:SJ:73:MET:HE3	45:SJ:92:PHE:CB	2.33	0.58
44:SK:297:GLU:CG	44:SK:298:PRO:HD2	2.33	0.58
44:SK:318:MET:HE1	44:SK:354:GLY:N	2.18	0.58
44:SM:218:ASP:HB2	44:SM:280:LYS:HZ2	1.68	0.58
44:SM:233:GLN:O	44:SM:236:SER:N	2.37	0.58
44:SM:273:ALA:O	44:SM:375:VAL:N	2.33	0.58
44:SM:296:PHE:HE2	44:SM:335:ILE:HG21	1.69	0.58
44:SM:394:LYS:HA	44:SM:397:LEU:HD12	1.85	0.58
44:SM:439:THR:HG21	45:SN:390:ARG:HD2	1.84	0.58
44:TA:318:MET:O	44:TA:375:VAL:HG23	2.03	0.58
45:TD:303:ALA:HB2	45:TD:377:MET:HG2	1.85	0.58
44:TE:188:ILE:HD12	44:TE:425:LEU:CD1	2.33	0.58
45:TF:204:ASN:O	45:TF:207:LEU:HB2	2.04	0.58
44:TG:138:PHE:HE2	44:TG:235:ILE:HD11	1.69	0.58
44:TG:328:VAL:O	44:TG:332:ILE:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:141:VAL:HG22	44:TI:187:SER:HA	1.85	0.58
45:TJ:280:GLN:HG3	45:TJ:281:TYR:CD1	2.39	0.58
44:TK:141:VAL:HG21	44:TK:172:TYR:CD1	2.35	0.58
44:TM:185:TYR:HA	44:TM:395:PHE:HE1	1.68	0.58
45:TN:105:HIS:CD2	45:TN:150:LEU:HB2	2.39	0.58
45:TN:263:LEU:HG	45:TN:422:TYR:CE1	2.38	0.58
44:UA:18:ASN:O	44:UA:22:GLU:OE1	2.21	0.58
44:UA:31:GLN:HE21	44:UA:35:GLN:H	1.52	0.58
44:UC:261:PRO:HA	45:UD:394:PHE:CE1	2.38	0.58
44:UC:389:SER:O	44:UC:393:HIS:N	2.27	0.58
45:UD:6:HIS:HD2	45:UD:134:GLN:O	1.85	0.58
45:UD:398:TYR:HB3	45:UD:403:MET:CE	2.33	0.58
44:UE:233:GLN:NE2	44:UE:361:THR:O	2.30	0.58
45:UF:193:VAL:HA	45:UF:264:HIS:CE1	2.37	0.58
44:UG:261:PRO:HA	45:UH:394:PHE:CE1	2.38	0.58
44:UG:318:MET:HE1	44:UG:354:GLY:H	1.68	0.58
45:UH:251:ARG:O	45:UH:255:VAL:N	2.34	0.58
45:UH:255:VAL:HA	44:UI:407:TRP:CZ3	2.39	0.58
45:UH:282:ARG:HH12	45:UH:288:GLU:HB3	1.68	0.58
44:UI:145:THR:HG23	46:UI:501:GTP:O1B	2.04	0.58
44:UI:425:LEU:O	44:UI:429:GLU:HG3	2.04	0.58
45:UL:208:TYR:HB3	45:UL:212:PHE:CE2	2.38	0.58
45:UL:334:GLN:HB2	45:UL:349:ILE:CD1	2.33	0.58
45:UN:6:HIS:CE1	45:UN:136:THR:HG23	2.38	0.58
44:VA:211:ASP:O	44:VA:215:ARG:N	2.29	0.58
44:VE:265:ILE:HG12	44:VE:432:TYR:CE1	2.39	0.58
44:VG:352:LYS:HD3	45:VJ:178:THR:HG23	1.86	0.58
44:VI:392:ASP:OD2	44:VI:422:ARG:NH1	2.36	0.58
44:VK:53:PHE:O	44:VK:64:ARG:NE	2.32	0.58
44:VM:137:VAL:HG12	44:VM:167:LEU:O	2.03	0.58
45:VN:2:ARG:NH2	45:VN:249:ASP:HB2	2.18	0.58
44:WA:223:THR:O	44:WA:227:LEU:HG	2.03	0.58
45:WB:138:SER:CB	45:WB:169:VAL:HB	2.33	0.58
45:WB:293:MET:HE2	45:WB:367:PHE:CD1	2.37	0.58
44:WC:50:ASN:HA	44:WC:53:PHE:O	2.04	0.58
45:WF:193:VAL:HG21	45:WF:418:LEU:HD22	1.85	0.58
44:WG:103:PHE:HB2	44:WG:186:ASN:HB3	1.86	0.58
44:WG:404:PHE:CE1	45:WH:259:PRO:HA	2.38	0.58
45:WH:286:VAL:CG1	45:WH:329:GLN:HG3	2.34	0.58
44:WM:11:GLN:HG3	44:WM:69:ASP:OD2	2.03	0.58
44:WM:219:ILE:HG22	44:WM:221:ARG:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:270:PHE:CE2	45:WN:273:LEU:HD21	2.38	0.58
7:0F:188:ILE:HD12	44:EE:79:ARG:HG2	1.85	0.58
7:0F:192:THR:HG21	45:ED:1:MET:CG	2.32	0.58
16:0X:78:ASN:HD21	45:MB:280:GLN:HE21	1.51	0.58
2:1A:29:TRP:CH2	45:MF:362:LYS:HG3	2.37	0.58
22:1L:658:ARG:HD2	44:BE:80:THR:CB	2.19	0.58
5:2D:224:ARG:HH22	35:5R:586:TYR:HA	1.67	0.58
30:2G:37:LYS:HG2	45:JJ:77:ARG:NH1	2.18	0.58
32:2I:81:ASP:HA	44:GE:308:ARG:HH12	1.67	0.58
22:2L:713:LEU:HA	45:CL:276:ARG:NH2	2.19	0.58
22:2L:713:LEU:HG	45:CL:276:ARG:NH2	2.18	0.58
26:3R:101:ARG:NH1	44:AK:41:THR:HG21	2.18	0.58
28:4C:8:LEU:HB2	35:6R:4:ASN:HD22	1.68	0.58
34:4F:161:GLU:OE2	44:IM:225:THR:HG21	2.04	0.58
37:5D:110:ARG:N	44:NM:281:ALA:N	2.51	0.58
35:5R:17:PHE:CD2	45:LJ:217:LEU:HD13	2.39	0.58
40:6F:62:GLN:HG2	44:IE:84:ARG:HH22	1.69	0.58
40:6F:123:TYR:O	40:6F:124:ARG:HB2	2.04	0.58
41:6G:286:LEU:HD12	44:VA:176:GLN:NE2	2.18	0.58
35:6R:253:ARG:CG	44:CM:42:ILE:HD12	2.33	0.58
35:6R:417:TYR:OH	44:EM:372:MET:HE2	2.03	0.58
35:7R:102:SER:O	45:BD:280:GLN:NE2	2.37	0.58
35:7R:107:PRO:CB	45:BD:360:GLY:HA3	2.33	0.58
35:7R:455:VAL:HB	35:7R:471:LEU:CB	2.23	0.58
45:AB:3:GLU:HB3	45:AB:49:VAL:HA	1.85	0.58
44:AC:208:ALA:O	44:AC:212:ILE:HG12	2.04	0.58
44:AC:323:VAL:HG12	44:AC:373:ARG:HD3	1.84	0.58
45:AD:105:HIS:HD1	45:AD:106:TYR:HD1	1.50	0.58
44:AG:69:ASP:OD1	44:AG:70:LEU:N	2.36	0.58
44:AG:417:GLU:O	44:AG:420:GLU:HG2	2.03	0.58
45:AH:9:GLY:HA2	45:AH:66:MET:O	2.04	0.58
45:AH:268:ILE:HG22	45:AH:368:VAL:HG22	1.85	0.58
44:AI:105:ARG:HA	44:AI:109:THR:HB	1.85	0.58
44:AK:32:PRO:HB3	44:AK:83:TYR:CE1	2.39	0.58
44:AK:102:ASN:HD21	44:AK:411:GLU:HG3	1.67	0.58
45:AL:172:SER:HB2	45:AL:173:PRO:CD	2.32	0.58
45:AL:240:LEU:HD12	45:AL:240:LEU:O	2.03	0.58
45:AL:268:ILE:O	45:AL:300:MET:HE3	2.03	0.58
45:AN:260:PHE:HZ	45:AN:344:TRP:HH2	1.50	0.58
44:BC:276:ILE:HG23	44:BC:281:ALA:HB2	1.86	0.58
44:BI:132:LEU:HD22	44:BI:164:LYS:HE2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BI:238:LEU:HG	44:BI:318:MET:HE1	1.85	0.58
45:BJ:64:ILE:HG23	45:BJ:89:ASN:HD22	1.69	0.58
45:BJ:187:LEU:HD11	45:BJ:408:PHE:CZ	2.39	0.58
45:BL:100:ASN:OD1	45:BL:103:LYS:HB2	2.03	0.58
45:BL:178:THR:HB	45:BL:181:GLU:CG	2.29	0.58
44:BM:172:TYR:HB3	44:BM:173:PRO:HD2	1.85	0.58
44:BM:242:LEU:HD11	44:BM:252:ILE:CD1	2.34	0.58
45:CB:44:LEU:CD2	45:CB:47:ILE:HD12	2.33	0.58
44:CC:31:GLN:HG3	44:CC:35:GLN:O	2.03	0.58
44:CC:236:SER:CB	44:CC:320:ARG:HH12	2.15	0.58
45:CF:12:CYS:HB2	48:CF:501:GDP:C8	2.39	0.58
45:CH:208:TYR:HE1	45:CH:225:LEU:HD11	1.67	0.58
45:CH:324:LYS:HD2	44:CI:210:TYR:CG	2.39	0.58
45:CJ:42:LEU:HD22	45:CJ:356:ILE:HD11	1.85	0.58
44:CK:184:PRO:HG2	44:CK:398:MET:CE	2.34	0.58
44:CK:331:SER:O	44:CK:335:ILE:HG12	2.04	0.58
45:CL:314:SER:HA	45:CL:350:LYS:CG	2.33	0.58
44:CM:7:ILE:O	44:CM:137:VAL:HA	2.02	0.58
44:CM:135:PHE:O	44:CM:166:LYS:HA	2.03	0.58
45:CN:73:MET:HE2	45:CN:92:PHE:HB3	1.83	0.58
45:DB:6:HIS:HB2	45:DB:134:GLN:CG	2.34	0.58
45:DB:201:VAL:HG23	45:DB:301:CYS:SG	2.43	0.58
45:DD:49:VAL:HG21	45:DD:241:ARG:HG2	1.84	0.58
45:DF:53:GLU:O	45:EF:283:ALA:HB2	2.02	0.58
45:DF:244:GLY:HA2	45:DF:355:ASP:CG	2.24	0.58
45:DH:153:SER:HB2	45:DH:191:GLN:NE2	2.19	0.58
45:DH:286:VAL:HB	45:DH:325:GLU:OE1	2.03	0.58
44:DK:36:MET:SD	44:DK:37:PRO:HD3	2.44	0.58
45:DL:317:PHE:CE2	45:DL:326:VAL:HG22	2.38	0.58
44:EA:227:LEU:HD13	46:EA:501:GTP:N1	2.19	0.58
45:EB:97:ALA:HB1	45:EB:103:LYS:HB2	1.85	0.58
45:EB:253:LEU:O	45:EB:257:LEU:HB2	2.03	0.58
44:EC:312:TYR:HA	44:EC:381:SER:HB2	1.85	0.58
45:ED:254:ALA:HB1	44:EE:407:TRP:CH2	2.31	0.58
44:EG:183:GLU:N	44:EG:184:PRO:HD2	2.17	0.58
44:EI:206:ASN:HA	44:EI:209:ILE:HD12	1.84	0.58
44:EI:383:ALA:O	44:EI:386:GLU:HG2	2.03	0.58
45:EL:314:SER:CA	45:EL:350:LYS:HB3	2.33	0.58
44:EM:269:LEU:HD23	44:EM:379:SER:O	2.03	0.58
45:EN:16:ILE:CD1	45:EN:226:ASN:HA	2.33	0.58
44:FA:284:GLU:HG3	44:FA:286:LEU:CD2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:240:LEU:O	45:FB:240:LEU:HD23	2.03	0.58
45:FB:274:THR:HG23	45:FB:279:GLN:HA	1.84	0.58
45:FD:319:GLY:N	45:FD:354:CYS:O	2.37	0.58
44:FE:98:ASP:OD1	44:FE:99:ALA:N	2.36	0.58
44:FG:141:VAL:HG12	44:FG:171:ILE:O	2.03	0.58
45:FH:166:THR:HG23	45:FH:199:CYS:HA	1.86	0.58
45:FH:256:ASN:C	45:FH:257:LEU:HD12	2.24	0.58
44:FK:350:GLY:HA2	45:FN:179:VAL:CG2	2.32	0.58
45:FL:86:ARG:CZ	45:FL:87:PRO:HD2	2.34	0.58
45:FN:327:ASP:O	45:FN:330:MET:HG2	2.04	0.58
44:GA:319:TYR:OH	44:GA:328:VAL:HG13	2.03	0.58
45:GB:122:LYS:HA	45:GB:122:LYS:HE2	1.85	0.58
45:GB:399:THR:N	45:GB:403:MET:HE3	2.19	0.58
44:GC:15:GLN:O	44:GC:19:ALA:N	2.33	0.58
44:GC:91:GLN:CB	44:GC:121:ARG:HD2	2.32	0.58
44:GC:313:MET:HB3	44:GC:380:ASN:O	2.03	0.58
45:GF:65:LEU:HD11	45:GF:85:PHE:CE2	2.38	0.58
44:GG:98:ASP:OD1	44:GG:99:ALA:N	2.37	0.58
44:GG:311:LYS:HD2	44:GG:311:LYS:N	2.19	0.58
45:GH:54:ALA:HA	45:HH:283:ALA:HB2	1.85	0.58
44:GK:99:ALA:HA	44:GK:105:ARG:NH1	2.19	0.58
44:GK:269:LEU:HD23	44:GK:379:SER:O	2.03	0.58
45:GL:410:GLU:O	45:GL:413:SER:OG	2.15	0.58
44:GM:203:MET:CE	44:GM:384:ILE:HD13	2.34	0.58
45:HB:315:ALA:C	45:HB:316:LEU:HD12	2.23	0.58
45:HF:270:PHE:CD2	45:HF:273:LEU:HD21	2.39	0.58
45:HH:269:GLY:N	45:HH:299:MET:HE1	2.19	0.58
44:HI:141:VAL:HG13	44:HI:142:GLY:H	1.67	0.58
44:HI:402:ARG:HB3	44:HI:405:VAL:CG1	2.28	0.58
44:HK:185:TYR:CE2	44:HK:404:PHE:HB2	2.38	0.58
44:HK:257:THR:HA	45:HN:397:TRP:CZ2	2.38	0.58
44:IA:429:GLU:HA	44:IA:432:TYR:HD2	1.68	0.58
45:IB:240:LEU:CD2	45:IB:241:ARG:HG3	2.32	0.58
45:IB:342:VAL:HG13	45:IB:345:ILE:HG22	1.85	0.58
44:IG:172:TYR:HD2	44:IG:203:MET:CE	2.16	0.58
44:IG:324:VAL:HB	44:IG:327:ASP:OD2	2.02	0.58
45:IJ:151:LEU:O	45:IJ:155:VAL:HG23	2.04	0.58
45:IJ:304:ASP:OD1	45:IJ:306:ARG:HG2	2.04	0.58
44:IK:11:GLN:N	46:IK:501:GTP:O1B	2.25	0.58
44:IK:119:LEU:HD11	44:IK:156:ARG:HG3	1.85	0.58
44:IK:311:LYS:O	44:IK:382:THR:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:392:ASP:OD1	44:IK:422:ARG:NE	2.36	0.58
45:IL:210:ILE:O	45:IL:214:THR:OG1	2.16	0.58
45:IL:318:ARG:CD	45:IL:358:PRO:HD3	2.33	0.58
44:IM:66:VAL:HG13	44:IM:91:GLN:HB2	1.86	0.58
44:IM:80:THR:HA	44:IM:84:ARG:CD	2.32	0.58
44:IM:102:ASN:OD1	44:IM:105:ARG:N	2.33	0.58
44:IM:212:ILE:HA	44:IM:215:ARG:HH21	1.67	0.58
44:JC:180:ALA:HA	45:JD:350:LYS:HZ3	1.65	0.58
44:JC:207:GLU:OE1	44:JC:304:LYS:HD3	2.04	0.58
44:JC:212:ILE:HD11	44:JC:299:ALA:O	2.03	0.58
45:JD:140:GLY:O	45:JD:184:ASN:ND2	2.35	0.58
45:JD:163:ILE:HA	45:JD:197:ASP:OD2	2.04	0.58
45:JD:383:GLU:O	45:JD:386:THR:HG22	2.03	0.58
44:JG:103:PHE:CD2	44:JG:189:LEU:HD13	2.39	0.58
44:JI:153:LEU:O	44:JI:157:LEU:HG	2.03	0.58
44:JI:407:TRP:CG	45:JJ:255:VAL:HG22	2.39	0.58
44:JK:398:MET:O	44:JK:403:ALA:HB3	2.03	0.58
45:JL:240:LEU:O	45:JL:240:LEU:HD23	2.02	0.58
45:JL:330:MET:O	45:JL:333:VAL:HG12	2.02	0.58
44:JM:75:ILE:HG22	44:JM:79:ARG:CZ	2.33	0.58
45:JN:3:GLU:OE2	45:JN:127:CYS:HB2	2.03	0.58
45:JN:127:CYS:SG	45:JN:130:LEU:HB2	2.42	0.58
45:JN:247:ASN:O	45:JN:252:LYS:NZ	2.35	0.58
44:KA:261:PRO:HG2	44:KA:313:MET:HE2	1.83	0.58
44:KC:407:TRP:O	44:KC:411:GLU:HG2	2.03	0.58
44:KE:176:GLN:HG3	44:KE:177:VAL:HG23	1.85	0.58
45:KF:8:GLN:HE22	45:KF:17:GLY:HA3	1.69	0.58
45:KF:219:THR:O	45:KF:219:THR:HG22	2.04	0.58
44:KG:175:PRO:HG2	44:KG:207:GLU:OE1	2.03	0.58
44:KG:320:ARG:HE	44:KG:360:PRO:HG3	1.68	0.58
45:KH:274:THR:HG21	45:KH:282:ARG:HD2	1.85	0.58
45:KH:317:PHE:HE2	45:KH:326:VAL:HG13	1.68	0.58
45:KJ:330:MET:O	45:KJ:333:VAL:HG12	2.04	0.58
45:KL:286:VAL:CG1	45:KL:325:GLU:HG2	2.32	0.58
44:KM:306:ASP:HB3	44:KM:309:HIS:CE1	2.39	0.58
44:KM:319:TYR:HB3	44:KM:323:VAL:HG21	1.85	0.58
45:KN:12:CYS:O	45:KN:16:ILE:HD12	2.04	0.58
44:LA:108:TYR:HA	44:LA:112:LYS:NZ	2.17	0.58
44:LC:184:PRO:O	44:LC:188:ILE:HG12	2.03	0.58
44:LG:5:ILE:HD11	44:LG:129:CYS:SG	2.44	0.58
44:LI:259:LEU:HD11	44:LI:316:SER:CB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:178:THR:O	45:LL:181:GLU:HG3	2.03	0.58
45:LN:379:LYS:HA	45:LN:382:ALA:HB3	1.84	0.58
45:MB:73:MET:O	45:MB:76:VAL:HG12	2.04	0.58
44:MC:217:LEU:HD21	44:MC:275:ILE:CG2	2.33	0.58
45:MD:318:ARG:HG2	45:MD:318:ARG:NH1	2.19	0.58
44:ME:296:PHE:CE2	44:ME:335:ILE:HG21	2.39	0.58
44:MG:71:GLU:OE2	44:MG:73:THR:OG1	2.11	0.58
44:MI:135:PHE:O	44:MI:136:LEU:HD23	2.03	0.58
44:MM:407:TRP:CZ3	45:MN:255:VAL:HG22	2.39	0.58
45:MN:325:GLU:HG2	45:MN:328:GLU:OE2	2.03	0.58
44:NA:21:TRP:O	44:NA:25:CYS:N	2.33	0.58
44:NC:178:SER:OG	45:ND:347:ASN:HB3	2.04	0.58
44:NG:206:ASN:OD1	44:NG:207:GLU:N	2.36	0.58
44:NI:108:TYR:HA	44:NI:112:LYS:HZ3	1.69	0.58
44:NI:202:VAL:HA	44:NI:268:MET:O	2.04	0.58
45:NL:130:LEU:HD12	45:NL:131:GLN:H	1.67	0.58
45:NN:32:PRO:HD3	45:NN:81:PHE:HE1	1.67	0.58
45:NN:262:ARG:HH21	45:NN:418:LEU:HD13	1.69	0.58
44:OA:50:ASN:HA	44:OA:53:PHE:O	2.03	0.58
44:OA:269:LEU:HD23	44:OA:269:LEU:H	1.67	0.58
44:OA:273:ALA:CB	44:OA:300:ASN:HD21	2.17	0.58
44:OA:346:TRP:CZ3	45:OD:391:ARG:HB2	2.39	0.58
44:OC:18:ASN:OD1	44:OC:19:ALA:N	2.37	0.58
44:OC:100:ALA:CA	45:OD:252:LYS:HG2	2.32	0.58
45:OD:399:THR:HA	45:OD:403:MET:O	2.03	0.58
45:OF:207:LEU:HD13	45:OF:225:LEU:HB3	1.86	0.58
44:OG:261:PRO:HB3	45:OJ:394:PHE:CZ	2.38	0.58
45:OH:69:GLU:O	45:OH:73:MET:HG2	2.03	0.58
45:OJ:64:ILE:HD11	45:OJ:123:GLU:HG3	1.85	0.58
45:OJ:134:GLN:O	45:OJ:135:ILE:HD13	2.03	0.58
45:OJ:271:ALA:HB3	45:OJ:365:VAL:CG2	2.34	0.58
45:OJ:399:THR:HA	45:OJ:403:MET:O	2.04	0.58
44:OK:311:LYS:HB3	44:OK:342:GLN:O	2.03	0.58
45:OL:4:ILE:HG13	45:OL:5:VAL:N	2.17	0.58
44:OM:120:ASP:O	44:OM:123:ARG:HB3	2.04	0.58
44:OM:287:SER:O	44:OM:291:ILE:HG23	2.03	0.58
45:ON:165:GLU:OE1	45:ON:165:GLU:HA	2.01	0.58
45:ON:280:GLN:HG3	45:ON:281:TYR:CD1	2.38	0.58
45:ON:420:SER:O	45:ON:424:GLN:N	2.37	0.58
45:PB:187:LEU:HD11	45:PB:408:PHE:CZ	2.38	0.58
44:PC:70:LEU:HD12	44:PC:99:ALA:CB	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:169:PHE:HE1	44:PC:202:VAL:HG21	1.69	0.58
45:PD:376:GLU:CG	45:PD:380:ARG:HH21	2.16	0.58
45:PH:385:PHE:HE2	45:PH:412:GLU:HB2	1.68	0.58
45:PJ:360:GLY:C	45:PJ:361:LEU:HD22	2.24	0.58
44:PK:5:ILE:HD12	44:PK:135:PHE:HE1	1.68	0.58
44:PM:87:PHE:CB	44:PM:92:LEU:HD11	2.34	0.58
44:PM:97:GLU:HG2	44:PM:105:ARG:HH22	1.68	0.58
44:PM:314:ALA:O	44:PM:380:ASN:N	2.35	0.58
45:PN:139:LEU:HG	45:PN:188:SER:OG	2.03	0.58
44:QA:88:HIS:ND1	44:QA:90:GLU:HG2	2.19	0.58
44:QA:88:HIS:O	44:QA:91:GLN:HG2	2.03	0.58
45:QB:317:PHE:N	45:QB:352:SER:O	2.30	0.58
44:QE:224:TYR:CD1	44:QE:227:LEU:HD12	2.39	0.58
45:QF:74:ASP:OD1	45:QF:77:ARG:NH2	2.37	0.58
45:QF:130:LEU:HD13	45:QF:162:ARG:NE	2.19	0.58
44:QI:185:TYR:OH	44:QI:398:MET:HG2	2.03	0.58
44:QI:247:ALA:HB1	45:QJ:222:TYR:CD2	2.39	0.58
44:QM:171:ILE:HD13	46:QM:501:GTP:HN22	1.69	0.58
44:QM:316:SER:CB	44:QM:352:LYS:HB3	2.34	0.58
45:QN:42:LEU:HA	45:QN:45:GLU:CG	2.30	0.58
45:QN:143:THR:HG22	48:QN:501:GDP:O2B	2.04	0.58
44:RA:182:VAL:HG22	44:RA:408:TYR:OH	2.04	0.58
44:RA:205:ASP:OD2	44:RA:304:LYS:N	2.29	0.58
45:RD:97:ALA:HA	45:RD:103:LYS:HG2	1.86	0.58
44:RE:166:LYS:HG2	44:RE:199:ASP:OD2	2.04	0.58
44:RE:268:MET:HG3	44:RE:380:ASN:CB	2.33	0.58
45:RF:45:GLU:C	45:RF:46:ARG:HD2	2.23	0.58
45:RF:248:SER:OG	45:RF:252:LYS:HD2	2.04	0.58
44:RG:11:GLN:HB2	46:RG:501:GTP:PB	2.44	0.58
44:RG:104:ALA:HB1	44:RG:411:GLU:HB2	1.84	0.58
45:RH:138:SER:CA	45:RH:169:VAL:HB	2.33	0.58
45:RH:198:GLU:HA	45:RH:264:HIS:HB2	1.85	0.58
44:RK:276:ILE:HD11	44:RK:280:LYS:O	2.03	0.58
44:RM:206:ASN:HA	44:RM:209:ILE:CD1	2.34	0.58
44:RM:431:ASP:O	44:RM:435:VAL:HG23	2.04	0.58
45:RN:30:ILE:CG2	45:RN:84:LEU:HD21	2.34	0.58
45:RN:52:ASN:OD1	45:RN:62:ARG:NH2	2.37	0.58
44:SA:271:SER:CB	44:SA:377:MET:HG2	2.28	0.58
45:SB:54:ALA:CB	45:TB:283:ALA:HB2	2.33	0.58
45:SD:303:ALA:HB2	45:SD:377:MET:HE1	1.84	0.58
45:SD:304:ASP:OD1	45:SD:305:PRO:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:5:ILE:CD1	44:SG:64:ARG:HB3	2.33	0.58
44:SG:174:SER:HB2	44:SG:177:VAL:O	2.04	0.58
44:SG:340:THR:HG23	44:SG:341:ILE:HG12	1.86	0.58
45:SH:21:TRP:CE3	45:SH:61:PRO:HB3	2.39	0.58
44:SI:91:GLN:HA	44:SI:121:ARG:NH1	2.19	0.58
45:SJ:110:ALA:O	45:SJ:113:ILE:HG22	2.02	0.58
44:SK:99:ALA:HB3	44:SK:145:THR:N	2.17	0.58
44:SK:261:PRO:HG3	45:SL:394:PHE:CZ	2.39	0.58
45:SL:97:ALA:HB2	45:SL:143:THR:HB	1.86	0.58
45:SL:202:ILE:HA	45:SL:301:CYS:SG	2.43	0.58
45:SL:399:THR:HA	45:SL:403:MET:O	2.02	0.58
45:TB:318:ARG:HA	45:TB:354:CYS:HB3	1.84	0.58
45:TD:318:ARG:HH11	45:TD:358:PRO:HG3	1.68	0.58
44:TE:188:ILE:HG23	44:TE:425:LEU:HD12	1.84	0.58
44:TE:259:LEU:HD11	44:TE:316:SER:CB	2.33	0.58
44:TE:318:MET:C	44:TE:375:VAL:HG23	2.24	0.58
45:TF:67:ASP:OD1	45:TF:68:LEU:N	2.36	0.58
45:TF:211:CYS:HA	45:TF:215:LEU:HD12	1.84	0.58
45:TF:372:THR:HA	45:TF:422:TYR:CE2	2.36	0.58
44:TG:4:VAL:HG13	44:TG:52:PHE:HE1	1.68	0.58
44:TG:135:PHE:CD2	44:TG:157:LEU:HD21	2.38	0.58
45:TH:322:SER:HB2	44:TI:222:PRO:O	2.03	0.58
45:TL:133:PHE:O	45:TL:165:GLU:N	2.34	0.58
44:TM:9:VAL:O	44:TM:139:ASN:HA	2.04	0.58
44:TM:278:ALA:HA	44:TM:281:ALA:HB3	1.85	0.58
44:TM:291:ILE:HD12	44:TM:375:VAL:CG1	2.34	0.58
45:TN:2:ARG:O	45:TN:240:LEU:HD11	2.03	0.58
44:UC:188:ILE:HG13	44:UC:395:PHE:CB	2.33	0.58
44:UC:348:PRO:CG	45:UD:384:GLN:HB2	2.33	0.58
45:UD:105:HIS:NE2	45:UD:150:LEU:HB2	2.18	0.58
45:UD:193:VAL:HG13	45:UD:264:HIS:NE2	2.18	0.58
44:UE:140:SER:OG	46:UE:501:GTP:O2A	2.08	0.58
44:UG:89:PRO:HG3	44:VE:280:LYS:CE	2.33	0.58
44:UG:185:TYR:OH	44:UG:398:MET:HB3	2.04	0.58
45:UJ:239:CYS:HB2	45:UJ:247:ASN:HA	1.86	0.58
44:UK:60:LYS:HD3	44:VI:283:HIS:CE1	2.38	0.58
44:VA:184:PRO:O	44:VA:187:SER:HB2	2.03	0.58
44:VC:119:LEU:HA	44:VC:122:ILE:CG1	2.34	0.58
44:VC:242:LEU:HD11	44:VC:252:ILE:HD11	1.85	0.58
45:VD:61:PRO:HD2	45:VD:84:LEU:O	2.04	0.58
45:VD:105:HIS:CD2	45:VD:150:LEU:HB2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:256:ASN:HD22	45:VD:350:LYS:HD2	1.69	0.58
44:VE:56:THR:HG22	44:VE:60:LYS:O	2.04	0.58
44:VE:243:ARG:HG3	44:VE:244:PHE:CE2	2.38	0.58
45:VF:377:MET:O	45:VF:380:ARG:HG2	2.02	0.58
44:VG:200:VAL:HG12	44:VG:260:VAL:HG11	1.85	0.58
45:VH:130:LEU:HG	45:VH:162:ARG:CD	2.34	0.58
45:VJ:257:LEU:HD21	45:VJ:368:VAL:HG23	1.85	0.58
44:VK:222:PRO:HD2	45:VL:324:LYS:HD3	1.86	0.58
45:VL:70:PRO:HA	45:VL:73:MET:SD	2.43	0.58
44:VM:71:GLU:O	44:VM:74:VAL:HG22	2.03	0.58
44:WA:73:THR:O	44:WA:76:ASP:HB2	2.02	0.58
44:WA:324:VAL:HG13	44:WA:325:PRO:HD2	1.85	0.58
45:WB:8:GLN:HG3	45:WB:65:LEU:HG	1.84	0.58
45:WB:267:MET:HE1	45:WB:371:SER:H	1.68	0.58
45:WF:139:LEU:HA	45:WF:145:SER:CB	2.33	0.58
45:WL:377:MET:O	45:WL:380:ARG:HG2	2.03	0.58
45:WN:97:ALA:HB3	45:WN:143:THR:CB	2.32	0.58
45:WN:203:ASP:O	45:WN:207:LEU:HG	2.04	0.58
45:WN:344:TRP:HZ2	45:WN:428:ALA:HB3	1.69	0.58
1:6H:251:ASP:CG	45:FF:360:GLY:O	2.41	0.58
2:0A:17:GLN:NE2	35:7R:46:GLU:O	2.36	0.58
3:0B:240:TRP:HZ3	45:JL:228:LEU:HD21	1.69	0.58
18:1F:64:ALA:O	45:GL:35:THR:OG1	2.15	0.58
20:1J:314:VAL:HG13	44:IK:372:MET:HE2	1.84	0.58
25:1P:221:ILE:HG22	44:TG:370:LYS:CE	2.33	0.58
2:2A:36:ARG:NH2	45:MJ:356:ILE:HG12	2.19	0.58
33:3D:6:LYS:HB2	45:KD:37:HIS:HE1	1.58	0.58
37:5D:39:ARG:HD2	44:KK:200:VAL:HG22	1.83	0.58
38:5F:110:ARG:N	45:NF:41:ASP:OD1	2.36	0.58
38:5G:75:PHE:HE2	45:KJ:420:SER:HB3	1.68	0.58
38:5G:200:LEU:HD23	38:5G:202:LYS:NZ	2.19	0.58
38:5H:107:VAL:HG13	38:5H:108:LYS:N	2.18	0.58
11:5Q:185:LEU:HG	11:5Q:186:PRO:HD2	1.86	0.58
35:5R:436:GLU:HB2	45:FJ:280:GLN:CD	2.24	0.58
40:6F:10:THR:HG22	44:IE:96:LYS:HB2	1.85	0.58
41:6G:165:THR:HA	45:VH:209:ASP:OD2	2.02	0.58
35:6R:230:GLU:OE2	45:CN:218:THR:HG21	2.04	0.58
35:7R:488:LEU:O	35:7R:491:GLN:HG3	2.02	0.58
42:8L:108:UNK:HA	42:8L:111:UNK:CB	2.34	0.58
43:8R:288:UNK:O	43:8R:292:UNK:N	2.37	0.58
44:AA:102:ASN:ND2	44:AA:411:GLU:HG3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:112:LYS:O	44:AA:115:VAL:HG12	2.03	0.58
44:AA:259:LEU:HD21	44:AA:316:SER:HB3	1.84	0.58
45:AB:42:LEU:HD23	45:AB:243:PRO:CD	2.33	0.58
45:AB:216:LYS:HB2	45:AB:275:SER:CB	2.34	0.58
44:AC:165:SER:HA	44:AC:199:ASP:OD2	2.03	0.58
45:AD:6:HIS:O	45:AD:63:ALA:HA	2.03	0.58
45:AD:303:ALA:H	45:AD:377:MET:HE2	1.69	0.58
45:AF:262:ARG:HH21	45:AF:421:GLU:HB3	1.69	0.58
44:AG:275:ILE:HG23	44:AG:368:LEU:HD11	1.84	0.58
45:AH:22:GLU:HG2	45:AH:81:PHE:HB2	1.85	0.58
45:AH:330:MET:SD	45:AH:349:ILE:HG21	2.44	0.58
44:AI:259:LEU:HD11	44:AI:316:SER:OG	2.04	0.58
45:AL:86:ARG:HA	45:BL:281:TYR:HD2	1.68	0.58
44:AM:73:THR:CG2	45:AN:247:ASN:HD22	2.17	0.58
44:AM:212:ILE:CD1	44:AM:300:ASN:HA	2.34	0.58
44:AM:269:LEU:HD12	44:AM:303:ALA:HB3	1.84	0.58
45:AN:163:ILE:HD11	45:AN:250:LEU:HB2	1.86	0.58
44:BA:72:PRO:O	44:BA:76:ASP:N	2.32	0.58
44:BA:319:TYR:N	44:BA:354:GLY:O	2.36	0.58
44:BC:123:ARG:HA	44:BC:161:TYR:OH	2.04	0.58
44:BC:284:GLU:HG3	44:BC:286:LEU:HD22	1.85	0.58
45:BD:50:TYR:OH	45:BD:237:THR:HG21	2.04	0.58
44:BE:70:LEU:HD11	44:BE:149:LEU:HD21	1.86	0.58
44:BE:276:ILE:HD12	44:BE:284:GLU:OE2	2.03	0.58
44:BG:145:THR:H	46:BG:501:GTP:PG	2.26	0.58
44:BG:194:LEU:HD12	44:BG:198:THR:OG1	2.04	0.58
45:BH:73:MET:O	45:BH:76:VAL:HG12	2.03	0.58
45:BH:105:HIS:CD2	45:BH:150:LEU:HB2	2.38	0.58
44:BK:171:ILE:HG12	44:BK:204:LEU:HB2	1.85	0.58
44:BK:179:THR:HG23	45:BL:351:SER:OG	2.03	0.58
45:BN:116:VAL:O	45:BN:119:VAL:HG12	2.03	0.58
45:BN:164:MET:H	45:BN:197:ASP:CB	2.16	0.58
44:CA:244:PHE:CE2	44:CA:358:GLN:HB2	2.38	0.58
44:CG:3:GLU:HG2	44:CG:64:ARG:HH12	1.69	0.58
45:CH:61:PRO:HD2	45:CH:84:LEU:O	2.04	0.58
44:CI:268:MET:HB2	44:CI:379:SER:O	2.04	0.58
44:CK:267:PHE:CB	44:CK:384:ILE:HG12	2.32	0.58
45:CL:267:MET:HA	45:CL:267:MET:CE	2.34	0.58
45:CN:61:PRO:CG	45:CN:84:LEU:HB3	2.33	0.58
45:CN:143:THR:O	45:CN:147:MET:HE3	2.03	0.58
44:DA:20:CYS:HB2	44:DA:24:PHE:CZ	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:64:ARG:HD2	44:DA:129:CYS:SG	2.43	0.58
44:DA:66:VAL:HG11	44:DA:122:ILE:HD11	1.85	0.58
44:DA:217:LEU:CD2	44:DA:367:ASP:HB3	2.33	0.58
45:DB:69:GLU:OE1	45:DB:71:GLY:N	2.36	0.58
44:DC:258:ASN:HD22	44:DC:352:LYS:HD3	1.68	0.58
44:DE:11:GLN:CB	44:DE:74:VAL:HG11	2.33	0.58
45:DF:2:ARG:NH2	44:DG:71:GLU:OE2	2.37	0.58
45:DF:135:ILE:O	45:DF:167:PHE:N	2.28	0.58
44:DG:276:ILE:CD1	44:DG:281:ALA:HA	2.32	0.58
45:DJ:113:ILE:HA	45:DJ:116:VAL:CG1	2.33	0.58
44:DM:138:PHE:CZ	44:DM:235:ILE:HG12	2.39	0.58
45:DN:20:PHE:CE1	45:DN:233:MET:HB3	2.38	0.58
44:EA:143:GLY:HA3	46:EA:501:GTP:O2B	2.04	0.58
44:EA:233:GLN:O	44:EA:236:SER:OG	2.15	0.58
44:EA:316:SER:CB	44:EA:352:LYS:HB2	2.34	0.58
44:EA:344:VAL:HG21	44:EA:346:TRP:CE2	2.38	0.58
45:EB:33:THR:OG1	45:EB:35:THR:HG22	2.04	0.58
45:EB:350:LYS:HA	45:EB:350:LYS:HE2	1.86	0.58
44:EC:68:LEU:HA	44:EC:93:ILE:CD1	2.32	0.58
45:ED:267:MET:HE1	45:ED:305:PRO:HB3	1.86	0.58
45:EF:159:TYR:CB	45:EF:162:ARG:HG3	2.33	0.58
44:EG:95:GLY:C	44:EG:96:LYS:HD3	2.23	0.58
45:EH:52:ASN:CG	45:EH:62:ARG:HH21	2.06	0.58
45:EL:312:THR:HA	45:EL:348:ASN:CB	2.33	0.58
45:EN:266:PHE:HD2	45:EN:368:VAL:CG1	2.16	0.58
44:FA:252:ILE:HA	44:FA:255:PHE:CZ	2.39	0.58
45:FB:325:GLU:HA	45:FB:328:GLU:HG2	1.85	0.58
44:FC:224:TYR:CD2	45:FD:323:THR:HG21	2.38	0.58
44:FC:270:SER:CB	44:FC:378:ILE:HD13	2.33	0.58
45:FD:238:CYS:HB2	45:FD:318:ARG:NE	2.18	0.58
45:FF:241:ARG:C	45:FF:242:PHE:HD1	2.06	0.58
44:FG:22:GLU:HG3	44:FG:83:TYR:CE2	2.38	0.58
44:FI:270:SER:O	44:FI:302:MET:HB2	2.02	0.58
45:FJ:35:THR:HB	45:FJ:37:HIS:HE1	1.68	0.58
45:FJ:166:THR:OG1	45:FJ:198:GLU:O	2.21	0.58
45:FJ:231:ALA:HB1	45:FJ:270:PHE:HE1	1.69	0.58
44:FK:349:THR:HG22	45:FN:384:GLN:OE1	2.04	0.58
45:FN:19:LYS:HG3	45:FN:23:VAL:HG23	1.85	0.58
45:FN:253:LEU:HD12	45:FN:350:LYS:HZ1	1.69	0.58
45:FN:288:GLU:HA	45:FN:291:GLN:CG	2.34	0.58
45:FN:293:MET:HE3	45:FN:315:ALA:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:156:ARG:NH1	45:GB:162:ARG:O	2.36	0.58
45:GD:269:GLY:HA2	45:GD:300:MET:CE	2.33	0.58
45:GF:73:MET:HA	45:GF:76:VAL:CG1	2.30	0.58
45:GF:296:ALA:HA	45:GF:305:PRO:HG3	1.86	0.58
45:GH:374:ILE:HD11	45:GH:422:TYR:CE1	2.37	0.58
44:GI:64:ARG:HD3	44:GI:129:CYS:SG	2.43	0.58
44:GI:183:GLU:HG2	44:GI:184:PRO:CD	2.33	0.58
45:GJ:299:MET:HE3	45:GJ:305:PRO:HG3	1.84	0.58
44:GK:88:HIS:HB3	44:GK:91:GLN:CG	2.34	0.58
44:GK:106:GLY:O	44:GK:149:LEU:HD22	2.04	0.58
44:GK:141:VAL:HG11	44:GK:172:TYR:HA	1.85	0.58
44:GK:296:PHE:HE2	44:GK:335:ILE:HG21	1.68	0.58
45:GL:208:TYR:CE1	45:GL:225:LEU:HD11	2.38	0.58
45:GL:237:THR:HG23	45:GL:241:ARG:HH21	1.68	0.58
44:GM:140:SER:HB3	44:GM:171:ILE:HD12	1.84	0.58
45:GN:19:LYS:HE3	45:GN:226:ASN:CB	2.34	0.58
45:GN:308:GLY:HA2	45:GN:426:GLN:NE2	2.19	0.58
44:HA:6:SER:O	44:HA:7:ILE:HD13	2.02	0.58
45:HB:374:ILE:O	45:HB:376:GLU:N	2.37	0.58
44:HC:269:LEU:HD23	44:HC:269:LEU:H	1.68	0.58
44:HE:145:THR:HG22	46:HE:501:GTP:O3B	2.03	0.58
44:HE:220:GLU:C	44:HE:222:PRO:HD3	2.23	0.58
44:HG:288:VAL:HA	44:HG:291:ILE:CD1	2.33	0.58
44:HI:88:HIS:HB3	44:HI:91:GLN:CG	2.33	0.58
44:HK:98:ASP:OD1	44:HK:99:ALA:N	2.37	0.58
45:HL:200:MET:CE	45:HL:268:ILE:HD13	2.34	0.58
45:HN:231:ALA:HB1	45:HN:270:PHE:CD1	2.38	0.58
45:HN:268:ILE:CG2	45:HN:368:VAL:HG22	2.27	0.58
45:HN:388:MET:HG2	45:HN:388:MET:O	2.03	0.58
44:IA:402:ARG:O	44:IA:405:VAL:HG22	2.03	0.58
45:IB:137:HIS:NE2	45:IB:168:SER:OG	2.37	0.58
45:IB:207:LEU:HB2	45:IB:225:LEU:HD22	1.85	0.58
44:IC:184:PRO:HG2	44:IC:398:MET:CE	2.34	0.58
44:IC:189:LEU:HD11	44:IC:418:PHE:CE1	2.39	0.58
44:IE:167:LEU:HG	44:IE:200:VAL:HB	1.86	0.58
45:IF:121:ARG:NH2	45:IF:158:GLU:OE2	2.37	0.58
45:IF:308:GLY:HA3	45:IF:372:THR:OG1	2.03	0.58
45:IF:401:GLU:O	45:IF:401:GLU:HG2	2.04	0.58
44:II:141:VAL:HG11	44:II:172:TYR:HD1	1.67	0.58
44:II:240:ALA:HB2	44:II:320:ARG:NH2	2.18	0.58
44:II:311:LYS:HE2	44:II:342:GLN:CD	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:71:GLU:OE1	44:IM:73:THR:HB	2.03	0.58
45:IN:121:ARG:NH2	45:IN:158:GLU:OE2	2.37	0.58
45:IN:253:LEU:O	45:IN:257:LEU:HD13	2.04	0.58
45:JF:221:THR:HG22	45:JF:222:TYR:H	1.67	0.58
44:JG:269:LEU:O	44:JG:269:LEU:HD12	2.03	0.58
45:JH:217:LEU:H	45:JH:217:LEU:HD23	1.68	0.58
44:JI:177:VAL:HG23	45:JJ:327:ASP:HB3	1.86	0.58
45:JJ:237:THR:HG23	45:JJ:241:ARG:HH21	1.69	0.58
44:JK:423:GLU:HB3	44:NK:339:ARG:NH1	2.19	0.58
45:JL:204:ASN:O	45:JL:207:LEU:N	2.36	0.58
44:KA:168:GLY:O	44:KA:201:ALA:HA	2.04	0.58
45:KB:315:ALA:N	45:KB:350:LYS:HE3	2.18	0.58
44:KC:98:ASP:OD1	44:KC:99:ALA:N	2.37	0.58
44:KC:292:THR:HG21	44:KC:331:SER:OG	2.04	0.58
45:KD:200:MET:SD	45:KD:368:VAL:HG23	2.43	0.58
45:KD:217:LEU:HD11	45:KD:220:PRO:HB3	1.83	0.58
44:KE:320:ARG:HD3	44:KE:360:PRO:HG3	1.85	0.58
44:KG:195:LEU:CD2	44:KG:428:LEU:HD11	2.33	0.58
45:KH:197:ASP:O	45:KH:264:HIS:HB2	2.04	0.58
45:KH:383:GLU:O	45:KH:386:THR:HG22	2.04	0.58
45:KJ:70:PRO:HA	45:KJ:73:MET:HE1	1.85	0.58
44:KK:101:ASN:HD21	45:KL:252:LYS:HG3	1.66	0.58
45:KL:135:ILE:HG13	45:KL:152:ILE:CD1	2.33	0.58
45:KN:385:PHE:CE1	45:KN:389:PHE:HB2	2.38	0.58
44:LA:137:VAL:O	44:LA:168:GLY:HA2	2.03	0.58
44:LA:259:LEU:HB3	44:LA:268:MET:CE	2.33	0.58
44:LC:237:SER:CB	44:LC:320:ARG:HH12	2.16	0.58
44:LG:2:ARG:HH21	44:LG:243:ARG:CA	2.12	0.58
44:LI:7:ILE:HB	44:LI:137:VAL:HG12	1.86	0.58
44:LI:398:MET:CE	45:LJ:346:PRO:HD2	2.33	0.58
44:LK:345:ASP:OD1	44:LK:346:TRP:N	2.37	0.58
45:LN:242:PHE:HD2	45:LN:356:ILE:HB	1.68	0.58
45:LN:318:ARG:HD2	45:LN:358:PRO:HD3	1.85	0.58
45:MB:221:THR:HG23	45:MB:223:GLY:N	2.18	0.58
45:MD:201:VAL:HG13	45:MD:301:CYS:SG	2.43	0.58
45:MD:242:PHE:HB3	45:MD:356:ILE:HD12	1.84	0.58
45:MF:301:CYS:HB3	45:MF:377:MET:CE	2.34	0.58
44:MG:276:ILE:CG1	44:MG:281:ALA:HA	2.34	0.58
45:MH:5:VAL:HG12	45:MH:62:ARG:HG3	1.85	0.58
45:MH:257:LEU:HD11	45:MH:314:SER:HB2	1.86	0.58
45:MJ:58:ARG:NH1	45:MJ:60:VAL:HG12	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:181:VAL:HG12	45:ML:256:ASN:ND2	2.15	0.58
45:ML:201:VAL:HG23	45:ML:301:CYS:SG	2.44	0.58
44:MM:207:GLU:C	44:MM:304:LYS:HZ1	2.07	0.58
44:NA:387:VAL:HG23	44:NA:388:PHE:N	2.18	0.58
45:NB:67:ASP:O	45:NB:92:PHE:HA	2.03	0.58
45:ND:206:ALA:O	45:ND:210:ILE:HG13	2.04	0.58
44:NE:26:LEU:O	44:NE:26:LEU:HD23	2.04	0.58
44:NE:84:ARG:HG3	44:NE:85:GLN:CD	2.24	0.58
44:NG:287:SER:O	44:NG:291:ILE:HG12	2.03	0.58
45:NH:289:LEU:CD1	45:NH:363:MET:HG3	2.34	0.58
44:NI:242:LEU:HD11	44:NI:252:ILE:HD12	1.84	0.58
44:NI:305:CYS:SG	44:NI:383:ALA:HB1	2.44	0.58
45:NJ:185:ALA:O	45:NJ:189:VAL:HG23	2.03	0.58
44:NK:183:GLU:N	44:NK:184:PRO:HD2	2.19	0.58
44:NM:390:ARG:CZ	44:NM:394:LYS:HD2	2.34	0.58
45:NN:238:CYS:HA	45:NN:241:ARG:NH1	2.18	0.58
44:OA:3:GLU:OE2	44:OA:129:CYS:HB3	2.02	0.58
44:OA:27:GLU:HG2	44:OA:361:THR:HG21	1.85	0.58
45:OB:46:ARG:CB	45:OB:241:ARG:HA	2.34	0.58
45:OB:238:CYS:HB2	45:OB:318:ARG:NH2	2.19	0.58
45:OB:375:GLN:OE1	45:OB:423:GLN:HB2	2.03	0.58
45:OD:385:PHE:CD2	45:OD:412:GLU:HB3	2.39	0.58
45:OD:418:LEU:HA	45:OD:421:GLU:OE2	2.03	0.58
44:OE:262:TYR:HE2	44:OE:435:VAL:HG22	1.68	0.58
45:OF:299:MET:CE	45:OF:305:PRO:HG3	2.34	0.58
44:OI:34:GLY:HA3	44:OI:60:LYS:CG	2.30	0.58
44:OK:221:ARG:NH1	45:OL:325:GLU:HB3	2.19	0.58
45:OL:19:LYS:O	45:OL:23:VAL:HG23	2.03	0.58
44:OM:101:ASN:HA	44:OM:144:GLY:HA2	1.85	0.58
44:OM:319:TYR:CZ	44:OM:375:VAL:HG21	2.39	0.58
45:ON:285:THR:O	45:ON:289:LEU:N	2.28	0.58
44:PC:26:LEU:HD23	44:PC:363:VAL:HA	1.85	0.58
44:PC:141:VAL:CG1	44:PC:173:PRO:HD3	2.34	0.58
44:PE:15:GLN:NE2	45:PF:245:GLN:O	2.31	0.58
44:PE:183:GLU:HG2	44:PE:184:PRO:HD3	1.85	0.58
45:PF:2:ARG:CZ	45:PF:240:LEU:HG	2.34	0.58
45:PF:49:VAL:HG11	45:PF:241:ARG:HG2	1.84	0.58
45:PF:341:PHE:HB3	45:PF:348:ASN:ND2	2.07	0.58
44:PG:317:MET:CE	44:PG:332:ILE:HD11	2.33	0.58
45:PH:314:SER:HA	45:PH:350:LYS:HB3	1.84	0.58
44:PI:122:ILE:HG22	44:PI:161:TYR:OH	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:6:SER:HB2	44:PK:136:LEU:HB2	1.85	0.58
44:PK:221:ARG:HH21	45:PL:322:SER:N	2.01	0.58
44:PM:210:TYR:OH	44:PM:227:LEU:HD11	2.04	0.58
44:PM:311:LYS:O	44:PM:382:THR:N	2.30	0.58
45:PN:313:ALA:N	45:PN:348:ASN:O	2.32	0.58
45:QB:25:SER:O	45:QB:30:ILE:N	2.31	0.58
44:QC:155:GLU:HG2	44:QC:197:HIS:NE2	2.18	0.58
44:QC:166:LYS:C	44:QC:167:LEU:HD12	2.24	0.58
45:QH:312:THR:HG23	44:QI:181:VAL:HG11	1.84	0.58
44:QI:10:GLY:HA2	44:QI:145:THR:HG22	1.86	0.58
44:QI:13:GLY:O	44:QI:16:VAL:HG12	2.03	0.58
44:QI:230:LEU:O	44:QI:233:GLN:HB3	2.04	0.58
44:QI:269:LEU:HD12	44:QI:301:MET:CG	2.34	0.58
45:QJ:183:TYR:OH	45:QJ:388:MET:HG2	2.03	0.58
45:QJ:257:LEU:HD11	45:QJ:314:SER:CB	2.34	0.58
44:QK:56:THR:HG21	44:QK:60:LYS:HG3	1.85	0.58
44:QK:263:PRO:HD3	45:QL:396:HIS:CE1	2.38	0.58
45:QL:202:ILE:CD1	45:QL:300:MET:HB3	2.33	0.58
44:QM:102:ASN:HD21	44:QM:411:GLU:HG3	1.69	0.58
45:QN:135:ILE:CG1	45:QN:166:THR:HG22	2.33	0.58
44:RA:192:HIS:NE2	44:RA:424:ASP:OD2	2.36	0.58
44:RA:258:ASN:ND2	45:RB:178:THR:HG23	2.14	0.58
44:RA:269:LEU:H	44:RA:269:LEU:HD23	1.69	0.58
45:RB:114:ASP:HA	45:RB:117:LEU:HB3	1.85	0.58
44:RC:60:LYS:HD3	44:SC:283:HIS:CD2	2.38	0.58
45:RD:13:GLY:O	45:RD:16:ILE:HB	2.04	0.58
45:RD:86:ARG:NE	45:RD:86:ARG:HA	2.19	0.58
45:RD:261:PRO:HD3	44:RE:406:HIS:ND1	2.19	0.58
45:RF:137:HIS:O	45:RF:169:VAL:HG23	2.04	0.58
44:RG:108:TYR:CE2	44:RG:413:MET:HG3	2.37	0.58
44:RG:336:LYS:HD3	44:RG:351:PHE:CE1	2.36	0.58
45:RH:74:ASP:O	45:RH:77:ARG:HG2	2.03	0.58
45:RH:187:LEU:HD11	45:RH:408:PHE:HE1	1.67	0.58
44:RK:270:SER:O	44:RK:302:MET:HB3	2.04	0.58
45:SB:20:PHE:HA	45:SB:230:SER:HB3	1.84	0.58
45:SB:363:MET:CE	45:SB:365:VAL:HG23	2.33	0.58
45:SB:418:LEU:O	45:SB:422:TYR:HB2	2.03	0.58
44:SC:242:LEU:HD11	44:SC:252:ILE:CD1	2.33	0.58
45:SD:68:LEU:CD2	45:SD:97:ALA:HB2	2.32	0.58
45:SD:342:VAL:HG13	45:SD:345:ILE:CG2	2.32	0.58
45:SF:86:ARG:HH22	45:TF:278:SER:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:259:PRO:HA	44:SI:404:PHE:CZ	2.39	0.58
44:SI:329:ASN:OD1	44:SI:330:ALA:N	2.37	0.58
45:SL:55:THR:HG23	45:TL:283:ALA:CA	2.28	0.58
45:SL:374:ILE:HA	45:SL:377:MET:HE2	1.86	0.58
44:SM:70:LEU:HD13	44:SM:110:ILE:CD1	2.33	0.58
44:SM:315:CYS:HB3	44:SM:351:PHE:HA	1.86	0.58
44:TA:209:ILE:HG21	44:TA:227:LEU:HD12	1.85	0.58
44:TA:214:ARG:O	44:TA:218:ASP:HA	2.03	0.58
44:TA:261:PRO:HD2	44:TA:265:ILE:CG2	2.30	0.58
45:TB:21:TRP:CZ3	45:TB:61:PRO:HB3	2.38	0.58
45:TB:34:GLY:O	45:TB:58:ARG:HA	2.03	0.58
44:TC:69:ASP:OD2	44:TC:74:VAL:HG21	2.04	0.58
44:TC:319:TYR:CE1	44:TC:375:VAL:HG23	2.39	0.58
45:TD:102:ALA:HB1	45:TD:403:MET:CE	2.34	0.58
44:TE:26:LEU:CD2	44:TE:363:VAL:HG23	2.33	0.58
44:TE:144:GLY:N	46:TE:501:GTP:O2G	2.36	0.58
44:TG:88:HIS:O	44:TG:91:GLN:HG2	2.04	0.58
44:TG:215:ARG:HH22	44:TG:300:ASN:HA	1.68	0.58
45:TH:87:PRO:HD2	45:UH:281:TYR:HD2	1.67	0.58
44:TI:90:GLU:HB3	44:UI:280:LYS:HE3	1.86	0.58
44:TI:358:GLN:HG3	44:TI:359:PRO:HD2	1.85	0.58
45:TN:11:GLN:C	45:TN:15:GLN:HG2	2.24	0.58
45:TN:310:TYR:CD1	45:TN:371:SER:HB2	2.38	0.58
45:UB:4:ILE:HG21	45:UB:250:LEU:CD1	2.34	0.58
44:UC:166:LYS:N	44:UC:199:ASP:OD2	2.36	0.58
44:UC:295:ALA:HB1	44:UC:377:MET:SD	2.44	0.58
44:UE:141:VAL:HG12	44:UE:171:ILE:O	2.03	0.58
45:UF:325:GLU:H	44:UG:221:ARG:NH1	2.01	0.58
45:UH:64:ILE:HG13	45:UH:89:ASN:ND2	2.18	0.58
45:UH:319:GLY:HA2	45:UH:357:PRO:CB	2.34	0.58
45:UH:387:ALA:O	45:UH:390:ARG:HG2	2.03	0.58
45:UJ:55:THR:CG2	45:VJ:284:LEU:H	2.17	0.58
45:UJ:135:ILE:HG13	45:UJ:152:ILE:HD11	1.86	0.58
45:UJ:251:ARG:O	45:UJ:255:VAL:HG23	2.04	0.58
45:UL:34:GLY:O	45:UL:58:ARG:HA	2.04	0.58
45:UL:200:MET:HE3	45:UL:268:ILE:HG23	1.86	0.58
45:UL:306:ARG:HG2	45:UL:340:TYR:CZ	2.38	0.58
45:UN:238:CYS:HA	45:UN:241:ARG:NH2	2.19	0.58
44:VA:200:VAL:HG13	44:VA:268:MET:SD	2.44	0.58
44:VC:291:ILE:HG13	44:VC:292:THR:N	2.18	0.58
44:VE:207:GLU:OE2	44:VE:304:LYS:NZ	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:7:ILE:O	44:VG:137:VAL:HA	2.04	0.58
44:VI:256:GLN:HB3	45:VL:397:TRP:HH2	1.69	0.58
44:VK:278:ALA:HA	44:VK:369:ALA:HB2	1.86	0.58
44:VK:417:GLU:O	44:VK:420:GLU:HG2	2.04	0.58
44:VM:331:SER:O	44:VM:335:ILE:HG12	2.02	0.58
45:VN:2:ARG:HH22	45:VN:240:LEU:HD12	1.67	0.58
45:VN:217:LEU:HD11	45:VN:220:PRO:HB3	1.84	0.58
44:WA:72:PRO:HB2	45:WB:46:ARG:NH2	2.13	0.58
44:WA:112:LYS:O	44:WA:115:VAL:HG12	2.04	0.58
44:WA:181:VAL:HG12	45:WB:347:ASN:O	2.03	0.58
44:WA:226:ASN:ND2	44:WA:229:ARG:HH22	2.01	0.58
44:WC:268:MET:HB3	44:WC:380:ASN:OD1	2.04	0.58
45:WD:288:GLU:O	45:WD:291:GLN:HG3	2.04	0.58
45:WD:376:GLU:HG3	45:WD:380:ARG:HH21	1.67	0.58
44:WE:144:GLY:N	46:WE:501:GTP:O2G	2.37	0.58
45:WF:193:VAL:HG12	45:WF:193:VAL:O	2.03	0.58
44:WK:230:LEU:O	44:WK:234:VAL:HG23	2.02	0.58
15:0V:113:ARG:HE	44:LM:196:GLU:HA	1.68	0.58
5:1D:57:THR:HG23	44:EG:367:ASP:OD1	2.03	0.58
25:1P:276:THR:HA	44:TE:370:LYS:NZ	2.18	0.58
26:1R:296:PRO:HD2	45:CD:77:ARG:HH22	1.65	0.58
16:1X:132:VAL:HG21	45:MD:279:GLN:OE1	2.02	0.58
31:2H:192:GLN:O	45:AD:362:LYS:NZ	2.31	0.58
32:2I:70:PHE:CD1	44:FE:130:THR:HB	2.38	0.58
32:2I:113:ASP:HB3	44:FC:160:ASP:C	2.22	0.58
21:2K:266:LEU:HD11	44:GK:372:MET:HE3	1.84	0.58
11:2Q:149:ILE:HG23	36:5S:71:ARG:NH1	2.18	0.58
32:3I:217:ASN:HB3	44:FK:96:LYS:NZ	2.19	0.58
32:3I:279:MET:HE2	45:GJ:218:THR:HG22	1.84	0.58
37:5A:108:ARG:NH2	44:KA:389:SER:O	2.37	0.58
37:5D:110:ARG:H	44:NM:281:ALA:N	2.00	0.58
39:5J:44:ARG:NH2	44:JE:423:GLU:HG2	2.19	0.58
35:5R:113:ILE:HD13	35:5R:207:ASP:CB	2.33	0.58
35:5R:589:MET:HA	35:5R:600:LEU:HD12	1.85	0.58
41:6G:128:LYS:O	41:6G:132:GLN:HB3	2.04	0.58
35:7R:468:GLY:HA3	45:EB:77:ARG:HH21	1.69	0.58
43:8P:125:UNK:HA	43:8P:128:UNK:CB	2.33	0.58
44:AA:403:ALA:HB2	45:AB:260:PHE:CZ	2.39	0.58
45:AB:2:ARG:H	45:AB:129:CYS:HB3	1.69	0.58
44:AC:80:THR:CA	44:AC:84:ARG:HH21	2.16	0.58
44:AC:331:SER:O	44:AC:334:THR:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:143:GLY:HA3	46:AE:501:GTP:O2B	2.04	0.58
44:AG:179:THR:HG21	45:AH:246:LEU:CD2	2.34	0.58
45:AH:130:LEU:HD22	45:AH:162:ARG:HG3	1.86	0.58
45:AJ:152:ILE:O	45:AJ:155:VAL:HG12	2.02	0.58
45:AJ:304:ASP:OD1	45:AJ:305:PRO:HD2	2.04	0.58
44:AK:87:PHE:CB	44:AK:92:LEU:HD11	2.33	0.58
44:AK:207:GLU:O	44:AK:210:TYR:HB2	2.04	0.58
45:AL:260:PHE:HB3	45:AL:261:PRO:HD2	1.86	0.58
44:AM:167:LEU:HA	44:AM:200:VAL:CG1	2.34	0.58
44:AM:275:ILE:HG23	44:AM:368:LEU:CD1	2.34	0.58
44:BA:69:ASP:HB3	44:BA:75:ILE:HD11	1.85	0.58
44:BA:269:LEU:HD23	44:BA:379:SER:O	2.03	0.58
45:BD:423:GLN:O	45:BD:426:GLN:HB3	2.04	0.58
44:BE:272:TYR:HD2	44:BE:275:ILE:HD11	1.68	0.58
45:BH:100:ASN:HB3	45:BH:103:LYS:HB3	1.85	0.58
45:BH:193:VAL:O	45:BH:264:HIS:NE2	2.34	0.58
45:BH:257:LEU:HD13	45:BH:312:THR:HG23	1.86	0.58
45:BJ:238:CYS:SG	45:BJ:239:CYS:N	2.77	0.58
44:BM:23:LEU:HD21	44:BM:233:GLN:OE1	2.04	0.58
45:BN:113:ILE:HD13	45:BN:150:LEU:CD2	2.33	0.58
44:CA:35:GLN:NE2	44:CA:60:LYS:HB3	2.19	0.58
44:CA:263:PRO:HD3	45:CB:396:HIS:CE1	2.39	0.58
45:CB:10:GLY:HA2	45:CB:66:MET:HG3	1.86	0.58
45:CB:144:GLY:HA3	48:CB:501:GDP:PB	2.43	0.58
45:CB:170:VAL:HG13	45:CB:171:PRO:HD2	1.86	0.58
44:CC:7:ILE:O	44:CC:137:VAL:HA	2.03	0.58
44:CC:272:TYR:CD1	44:CC:376:CYS:HB2	2.39	0.58
45:CF:186:THR:HG21	45:CF:385:PHE:CE1	2.39	0.58
44:CG:185:TYR:OH	44:CG:398:MET:HB3	2.04	0.58
45:CH:271:ALA:HB1	45:CH:272:PRO:HA	1.86	0.58
44:CI:107:HIS:HB2	44:CI:148:GLY:HA2	1.85	0.58
44:CI:202:VAL:HG13	44:CI:269:LEU:HA	1.85	0.58
45:CJ:256:ASN:OD1	44:CK:181:VAL:HG22	2.04	0.58
45:CL:172:SER:OG	45:CL:205:GLU:HB2	2.04	0.58
44:CM:278:ALA:HB2	44:CM:369:ALA:HB2	1.85	0.58
45:CN:74:ASP:O	45:CN:77:ARG:NH2	2.37	0.58
45:CN:190:HIS:CG	45:CN:411:ALA:HA	2.39	0.58
44:DE:76:ASP:O	44:DE:79:ARG:HD3	2.04	0.58
44:DE:296:PHE:HE2	44:DE:335:ILE:HG21	1.69	0.58
45:DF:15:GLN:O	45:DF:18:ALA:N	2.37	0.58
44:DG:307:PRO:HA	44:DG:383:ALA:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:46:ARG:HH11	45:DJ:46:ARG:HG2	1.68	0.58
45:DJ:86:ARG:HH12	45:EJ:282:ARG:CG	2.17	0.58
44:DK:207:GLU:HB3	44:DK:304:LYS:HE3	1.85	0.58
44:DM:250:VAL:HG22	44:DM:352:LYS:HE3	1.85	0.58
44:DM:258:ASN:HA	45:DN:394:PHE:HE2	1.68	0.58
45:DN:29:GLY:HA3	45:DN:43:GLN:OE1	2.04	0.58
44:EA:35:GLN:NE2	44:EA:38:SER:HB2	2.19	0.58
45:EB:169:VAL:HG11	45:EB:204:ASN:CG	2.24	0.58
45:EB:270:PHE:CE2	45:EB:273:LEU:HD21	2.39	0.58
44:EC:287:SER:HB3	44:EC:290:GLU:HG2	1.85	0.58
45:ED:116:VAL:O	45:ED:119:VAL:HG12	2.03	0.58
45:ED:151:LEU:HG	45:ED:154:LYS:HZ3	1.69	0.58
45:ED:178:THR:CB	45:ED:181:GLU:HG3	2.21	0.58
45:ED:272:PRO:HG2	45:ED:361:LEU:CD1	2.32	0.58
45:ED:334:GLN:HA	45:ED:341:PHE:HE2	1.68	0.58
44:EG:268:MET:HG3	44:EG:378:ILE:CG2	2.34	0.58
44:EI:70:LEU:HD12	44:EI:145:THR:OG1	2.03	0.58
44:EK:287:SER:O	44:EK:290:GLU:HG2	2.04	0.58
45:EL:324:LYS:HG3	44:EM:210:TYR:HE2	1.68	0.58
45:EN:36:TYR:CZ	45:EN:38:GLY:HA3	2.39	0.58
45:FB:84:LEU:O	45:FB:86:ARG:NH2	2.36	0.58
45:FB:92:PHE:O	45:FB:112:LEU:HD11	2.04	0.58
45:FD:304:ASP:OD1	45:FD:305:PRO:HD2	2.04	0.58
44:FE:425:LEU:O	44:FE:429:GLU:HG3	2.04	0.58
44:FG:191:THR:HG21	44:FG:425:LEU:HD21	1.85	0.58
45:FJ:13:GLY:O	45:FJ:16:ILE:HG22	2.03	0.58
45:FJ:134:GLN:O	45:FJ:135:ILE:HD13	2.04	0.58
44:FK:272:TYR:HD1	44:FK:376:CYS:HB2	1.68	0.58
44:FK:404:PHE:CD1	45:FL:259:PRO:HA	2.39	0.58
45:FL:312:THR:HG22	45:FL:370:ASN:HB3	1.85	0.58
45:FN:25:SER:HB3	45:FN:30:ILE:O	2.03	0.58
45:FN:319:GLY:N	45:FN:357:PRO:HB3	2.19	0.58
45:FN:334:GLN:O	45:FN:338:SER:HB3	2.04	0.58
44:GA:181:VAL:H	45:GB:256:ASN:ND2	2.01	0.58
44:GA:192:HIS:ND1	44:GA:424:ASP:OD2	2.35	0.58
44:GA:318:MET:O	44:GA:375:VAL:HG23	2.04	0.58
45:GB:5:VAL:HG22	45:GB:133:PHE:CE1	2.39	0.58
44:GC:11:GLN:OE1	45:GD:246:LEU:HA	2.03	0.58
44:GC:54:SER:HB3	44:GC:64:ARG:HE	1.67	0.58
45:GD:180:VAL:HG22	45:GD:183:TYR:HB2	1.85	0.58
45:GD:323:THR:O	45:GD:326:VAL:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:135:PHE:O	44:GE:136:LEU:HD23	2.04	0.58
44:GG:60:LYS:HZ1	44:GG:86:LEU:HA	1.67	0.58
44:GG:132:LEU:HD11	44:GG:135:PHE:CE2	2.37	0.58
44:GG:319:TYR:HE2	44:GG:328:VAL:HG22	1.68	0.58
45:GH:176:SER:HB2	45:GH:181:GLU:OE1	2.03	0.58
45:GH:203:ASP:OD2	45:GH:377:MET:HE3	2.04	0.58
45:GL:62:ARG:NH2	45:GL:127:CYS:HB3	2.18	0.58
44:GM:116:ASP:O	44:GM:119:LEU:HB2	2.04	0.58
44:GM:132:LEU:HB2	44:GM:164:LYS:NZ	2.18	0.58
44:HC:257:THR:HA	45:HF:397:TRP:HH2	1.63	0.58
45:HF:257:LEU:HD21	45:HF:314:SER:CB	2.34	0.58
44:HG:318:MET:SD	44:HG:354:GLY:HA3	2.43	0.58
45:HH:32:PRO:HG3	45:HH:81:PHE:CZ	2.38	0.58
44:HI:53:PHE:O	44:HI:64:ARG:NH1	2.36	0.58
44:HI:247:ALA:HB1	45:HL:222:TYR:CD2	2.39	0.58
45:HJ:169:VAL:O	45:HJ:169:VAL:HG23	2.04	0.58
45:HJ:317:PHE:CE2	45:HJ:326:VAL:HG22	2.39	0.58
44:HK:19:ALA:CB	44:HK:228:ASN:HB3	2.33	0.58
45:HL:73:MET:HE1	45:HL:92:PHE:HB3	1.84	0.58
44:HM:69:ASP:OD1	44:HM:70:LEU:N	2.36	0.58
44:HM:203:MET:HA	44:HM:203:MET:HE2	1.86	0.58
45:IB:139:LEU:HB2	45:IB:169:VAL:O	2.03	0.58
44:IC:88:HIS:HB3	44:IC:91:GLN:CD	2.24	0.58
44:IC:306:ASP:OD2	44:IC:308:ARG:HB2	2.04	0.58
45:ID:398:TYR:O	45:ID:403:MET:HB3	2.02	0.58
46:IE:501:GTP:O1A	45:IF:246:LEU:HD23	2.04	0.58
45:IF:22:GLU:HG2	45:IF:81:PHE:CG	2.39	0.58
44:II:320:ARG:HD3	44:II:360:PRO:CD	2.34	0.58
45:IL:86:ARG:NE	45:IL:89:ASN:HA	2.18	0.58
44:IM:13:GLY:HA2	44:IM:16:VAL:HG12	1.85	0.58
44:IM:66:VAL:CG2	44:IM:125:LEU:HD11	2.33	0.58
44:IM:213:CYS:SG	44:IM:217:LEU:HD12	2.43	0.58
44:IM:330:ALA:HA	44:IM:333:ALA:HB3	1.83	0.58
44:JA:395:PHE:HE1	44:JA:422:ARG:HD3	1.68	0.58
45:JB:310:TYR:HD1	45:JB:371:SER:HB2	1.68	0.58
44:JC:138:PHE:CD2	44:JC:169:PHE:HB2	2.37	0.58
45:JD:67:ASP:OD1	45:JD:68:LEU:N	2.31	0.58
45:JD:124:ALA:HB1	45:JD:130:LEU:HD11	1.84	0.58
45:JD:238:CYS:HB2	45:JD:318:ARG:CZ	2.34	0.58
45:JF:220:PRO:HA	45:JF:224:ASP:OD2	2.03	0.58
45:JJ:202:ILE:HD11	45:JJ:268:ILE:CG1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:345:ILE:O	45:JJ:345:ILE:HG23	2.02	0.58
44:JK:313:MET:HG3	44:JK:346:TRP:CZ2	2.39	0.58
44:JM:181:VAL:O	44:JM:184:PRO:HD2	2.03	0.58
44:JM:223:THR:H	44:JM:226:ASN:HD21	1.51	0.58
44:JM:270:SER:HA	44:JM:377:MET:O	2.04	0.58
44:JM:317:MET:CE	44:JM:377:MET:HA	2.29	0.58
44:KA:2:ARG:HD3	44:KA:2:ARG:N	2.19	0.58
45:KB:103:LYS:HA	45:KB:107:THR:OG1	2.02	0.58
45:KD:22:GLU:HA	45:KD:81:PHE:CE2	2.39	0.58
45:KD:135:ILE:HG12	45:KD:165:GLU:O	2.04	0.58
45:KD:193:VAL:HG13	45:KD:264:HIS:NE2	2.19	0.58
45:KF:265:PHE:HB3	45:KF:374:ILE:HD13	1.84	0.58
45:KF:270:PHE:HD2	45:KF:273:LEU:HD21	1.69	0.58
44:KG:123:ARG:HG2	44:KG:123:ARG:HH11	1.69	0.58
44:KG:195:LEU:O	44:KG:266:HIS:NE2	2.29	0.58
45:KH:1:MET:HG3	45:KH:2:ARG:HH11	1.68	0.58
45:KJ:99:ASN:HA	45:KJ:142:GLY:CA	2.33	0.58
45:KJ:152:ILE:HD13	45:KJ:164:MET:HE1	1.86	0.58
44:KK:388:PHE:CE2	44:KK:428:LEU:HD21	2.39	0.58
45:KL:310:TYR:HB2	45:KL:341:PHE:CD1	2.39	0.58
45:KL:360:GLY:O	45:KL:361:LEU:HD12	2.03	0.58
44:KM:307:PRO:HB2	44:KM:312:TYR:CE1	2.39	0.58
45:KN:286:VAL:HG22	45:KN:321:MET:HG2	1.84	0.58
45:KN:343:GLU:OE2	45:KN:429:THR:HG23	2.04	0.58
45:LB:278:SER:CA	45:LB:281:TYR:HB3	2.30	0.58
44:LC:107:HIS:CD2	44:LC:152:LEU:HD13	2.38	0.58
44:LC:204:LEU:HD13	44:LC:231:ILE:CD1	2.33	0.58
45:LD:172:SER:OG	45:LD:175:VAL:HG23	2.04	0.58
45:LD:380:ARG:HA	45:LD:383:GLU:HG3	1.86	0.58
44:LE:205:ASP:CG	44:LE:304:LYS:H	2.05	0.58
44:LE:258:ASN:C	44:LE:259:LEU:HD22	2.24	0.58
45:LF:175:VAL:HG13	45:LF:205:GLU:OE2	2.03	0.58
45:LH:242:PHE:CD1	45:LH:356:ILE:HG13	2.38	0.58
44:LM:132:LEU:HD22	44:LM:164:LYS:CE	2.34	0.58
45:LN:200:MET:SD	45:LN:268:ILE:HG21	2.43	0.58
44:MA:363:VAL:CG2	44:MA:364:PRO:HD2	2.33	0.58
45:MB:27:GLU:HG3	45:MB:42:LEU:CD1	2.34	0.58
45:MF:130:LEU:HB3	45:MF:162:ARG:NH1	2.19	0.58
44:MG:195:LEU:HD12	44:MG:266:HIS:NE2	2.19	0.58
45:MJ:32:PRO:HG3	45:MJ:81:PHE:CZ	2.39	0.58
44:MK:349:THR:HG23	45:MN:176:SER:OG	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:86:ARG:O	45:ML:86:ARG:HG3	2.03	0.58
45:ML:383:GLU:O	45:ML:386:THR:HG22	2.03	0.58
44:MM:295:ALA:HB1	44:MM:377:MET:HE1	1.83	0.58
44:MM:406:HIS:CD2	44:MM:407:TRP:HD1	2.21	0.58
44:NA:318:MET:C	44:NA:375:VAL:HG23	2.24	0.58
45:NB:55:THR:HG23	45:OB:283:ALA:HA	1.84	0.58
44:NE:328:VAL:CG1	44:NE:353:VAL:HG21	2.34	0.58
45:NF:1:MET:SD	45:NF:2:ARG:HD3	2.43	0.58
45:NF:133:PHE:HB2	45:NF:164:MET:SD	2.44	0.58
45:NF:248:SER:CB	45:NF:252:LYS:HD2	2.34	0.58
45:NF:341:PHE:HB3	45:NF:348:ASN:HD21	1.69	0.58
44:NG:104:ALA:HA	44:NG:413:MET:CE	2.34	0.58
44:NG:177:VAL:HG12	45:NH:331:LEU:HD22	1.86	0.58
45:NH:316:LEU:HD23	45:NH:352:SER:HB3	1.86	0.58
44:NI:60:LYS:HG3	44:NI:61:HIS:N	2.17	0.58
44:NI:377:MET:O	44:NI:378:ILE:HD13	2.04	0.58
45:NJ:323:THR:O	45:NJ:326:VAL:N	2.37	0.58
44:NK:331:SER:O	44:NK:334:THR:HG22	2.04	0.58
45:NL:15:GLN:HA	45:NL:18:ALA:CB	2.32	0.58
45:NL:323:THR:HA	45:NL:326:VAL:HB	1.84	0.58
45:NN:241:ARG:HG3	45:NN:242:PHE:CD1	2.38	0.58
44:OA:23:LEU:O	44:OA:27:GLU:HG3	2.04	0.58
44:OA:185:TYR:O	44:OA:189:LEU:HD13	2.03	0.58
44:OA:223:THR:HA	45:OB:323:THR:H	1.67	0.58
44:OA:326:LYS:HZ1	45:OD:220:PRO:HB2	1.68	0.58
45:OB:11:GLN:CA	45:OB:72:THR:HG21	2.28	0.58
45:OB:294:PHE:CZ	45:OB:333:VAL:HG11	2.38	0.58
45:OD:65:LEU:HD22	45:OD:90:PHE:CD1	2.39	0.58
45:OF:7:ILE:HB	45:OF:135:ILE:HD13	1.86	0.58
45:OF:304:ASP:OD1	45:OF:305:PRO:HD2	2.03	0.58
45:OH:398:TYR:O	45:OH:403:MET:HB2	2.04	0.58
44:OI:201:ALA:N	44:OI:266:HIS:O	2.37	0.58
44:OI:202:VAL:HA	44:OI:268:MET:O	2.03	0.58
45:OJ:269:GLY:CA	45:OJ:300:MET:HE1	2.34	0.58
45:OL:318:ARG:HD3	45:OL:358:PRO:HD3	1.85	0.58
44:PA:50:ASN:OD1	44:PA:51:THR:N	2.37	0.58
44:PC:398:MET:HG2	45:PD:345:ILE:HD12	1.86	0.58
44:PE:172:TYR:HB2	44:PE:203:MET:HE1	1.85	0.58
44:PG:67:PHE:C	44:PG:68:LEU:HD12	2.23	0.58
45:PJ:104:GLY:O	45:PJ:147:MET:N	2.36	0.58
45:PJ:318:ARG:HD3	45:PJ:358:PRO:CD	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:377:MET:O	44:PK:378:ILE:HD13	2.04	0.58
45:PL:178:THR:CB	45:PL:181:GLU:HG3	2.28	0.58
45:PN:166:THR:O	45:PN:199:CYS:HA	2.04	0.58
45:PN:268:ILE:CG2	45:PN:368:VAL:HG22	2.33	0.58
44:QA:265:ILE:HG12	44:QA:432:TYR:CD1	2.39	0.58
45:QB:2:ARG:HG3	45:QB:240:LEU:HD21	1.86	0.58
45:QB:136:THR:HG22	45:QB:167:PHE:CD2	2.37	0.58
44:QC:68:LEU:HD21	44:QC:118:CYS:HB2	1.84	0.58
44:QC:122:ILE:HG22	44:QC:161:TYR:OH	2.04	0.58
44:QC:161:TYR:HB3	44:QC:164:LYS:CE	2.31	0.58
45:QD:87:PRO:HA	45:QD:90:PHE:HD2	1.67	0.58
45:QD:184:ASN:HA	45:QD:187:LEU:HB2	1.85	0.58
44:QE:47:ASP:HB2	44:QE:49:PHE:CD1	2.39	0.58
44:QE:149:LEU:C	44:QE:153:LEU:HG	2.23	0.58
45:QF:325:GLU:HA	45:QF:328:GLU:HG2	1.85	0.58
44:QI:313:MET:HB2	44:QI:380:ASN:CG	2.23	0.58
44:QM:56:THR:HG22	44:QM:60:LYS:O	2.03	0.58
44:QM:210:TYR:CE1	44:QM:227:LEU:HD11	2.38	0.58
44:QM:419:SER:C	44:QM:422:ARG:HH11	2.07	0.58
44:RC:288:VAL:HA	44:RC:291:ILE:HG12	1.85	0.58
44:RC:306:ASP:OD1	44:RC:308:ARG:HB2	2.04	0.58
44:RE:247:ALA:CB	44:RE:355:ILE:HG21	2.31	0.58
44:RE:262:TYR:HA	45:RF:396:HIS:CE1	2.38	0.58
45:RF:86:ARG:NH1	45:SF:278:SER:OG	2.37	0.58
44:RG:31:GLN:HB3	44:RG:32:PRO:HD3	1.84	0.58
44:RG:422:ARG:O	44:RG:425:LEU:HB2	2.04	0.58
44:RI:417:GLU:O	44:RI:420:GLU:HG2	2.04	0.58
45:RJ:177:ASP:HB2	48:RJ:501:GDP:O3'	2.03	0.58
45:RL:133:PHE:HB2	45:RL:164:MET:CE	2.34	0.58
45:RL:173:PRO:HD3	45:RL:380:ARG:HD3	1.86	0.58
45:RL:404:ASP:OD1	45:RL:407:GLU:N	2.28	0.58
44:RM:136:LEU:HA	44:RM:167:LEU:O	2.04	0.58
44:SA:275:ILE:HG23	44:SA:368:LEU:CD1	2.34	0.58
44:SC:335:ILE:HA	44:SC:338:LYS:HZ1	1.68	0.58
45:SF:36:TYR:CZ	45:SF:38:GLY:HA3	2.39	0.58
44:SG:171:ILE:HD13	44:SG:204:LEU:HB2	1.85	0.58
45:SH:198:GLU:OE2	45:SH:254:ALA:HB2	2.04	0.58
45:SH:286:VAL:HG22	45:SH:363:MET:HE1	1.85	0.58
45:SJ:286:VAL:HA	45:SJ:289:LEU:CG	2.33	0.58
44:SK:169:PHE:CE2	44:SK:235:ILE:HD12	2.38	0.58
45:SL:85:PHE:HB3	45:SL:90:PHE:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:103:LYS:HA	45:SL:107:THR:OG1	2.03	0.58
45:SL:105:HIS:CD2	45:SL:150:LEU:HB2	2.38	0.58
45:SL:138:SER:O	45:SL:139:LEU:HD12	2.04	0.58
45:SN:190:HIS:O	45:SN:193:VAL:HG12	2.04	0.58
44:TA:298:PRO:HA	44:TA:307:PRO:CD	2.34	0.58
44:TA:305:CYS:SG	44:TA:306:ASP:N	2.77	0.58
45:TB:38:GLY:HA3	45:TB:43:GLN:HE22	1.67	0.58
45:TD:52:ASN:OD1	45:TD:62:ARG:NH2	2.36	0.58
45:TD:202:ILE:HA	45:TD:301:CYS:SG	2.43	0.58
45:TD:273:LEU:HG	45:TD:292:GLN:HE22	1.67	0.58
44:TE:89:PRO:HB3	44:UE:280:LYS:CE	2.34	0.58
45:TF:44:LEU:HD22	45:TF:47:ILE:HD12	1.86	0.58
44:TG:2:ARG:HD2	44:TG:242:LEU:O	2.03	0.58
44:TG:396:ASP:OD1	44:TG:422:ARG:NE	2.36	0.58
44:TI:99:ALA:HB1	44:TI:102:ASN:O	2.03	0.58
44:TI:269:LEU:H	44:TI:269:LEU:HD23	1.68	0.58
45:TJ:2:ARG:HG3	45:TJ:240:LEU:HD11	1.83	0.58
45:TJ:399:THR:HA	45:TJ:403:MET:O	2.04	0.58
44:TK:119:LEU:HD21	44:TK:156:ARG:HD2	1.86	0.58
45:TN:21:TRP:HA	45:TN:24:ILE:HB	1.86	0.58
45:UB:334:GLN:HB2	45:UB:349:ILE:HD12	1.86	0.58
44:UC:265:ILE:HD11	44:UC:435:VAL:HG21	1.86	0.58
45:UD:232:ALA:O	45:UD:236:VAL:HG23	2.04	0.58
45:UD:242:PHE:CG	45:UD:356:ILE:HG13	2.39	0.58
45:UD:273:LEU:HD12	45:UD:298:ASN:OD1	2.03	0.58
45:UD:398:TYR:CA	45:UD:403:MET:HE3	2.34	0.58
44:UE:133:GLN:CB	44:UE:252:ILE:HD12	2.34	0.58
44:UG:105:ARG:O	44:UG:110:ILE:HG12	2.04	0.58
45:UH:6:HIS:O	45:UH:63:ALA:HA	2.03	0.58
45:UH:114:ASP:OD1	45:UH:115:SER:N	2.37	0.58
45:UH:315:ALA:HB3	45:UH:351:SER:OG	2.02	0.58
45:UJ:304:ASP:CG	45:UJ:306:ARG:HG2	2.24	0.58
44:UK:311:LYS:HB2	44:UK:382:THR:HG21	1.86	0.58
45:UL:54:ALA:HB3	45:UL:58:ARG:O	2.04	0.58
45:UN:139:LEU:HB2	45:UN:169:VAL:O	2.04	0.58
44:VA:406:HIS:CD2	45:VB:260:PHE:HA	2.39	0.58
44:VC:206:ASN:HA	44:VC:209:ILE:CD1	2.34	0.58
44:VC:256:GLN:HB2	44:VC:260:VAL:CG2	2.34	0.58
45:VD:2:ARG:HG3	45:VD:240:LEU:HD21	1.84	0.58
44:VE:200:VAL:HG13	44:VE:268:MET:SD	2.44	0.58
45:VF:161:ASP:OD1	45:VF:162:ARG:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:141:VAL:HG11	44:VI:172:TYR:CD1	2.39	0.58
44:VI:305:CYS:SG	44:VI:383:ALA:HB1	2.44	0.58
44:VI:420:GLU:HA	44:VI:423:GLU:HG2	1.86	0.58
45:VJ:61:PRO:HD2	45:VJ:84:LEU:HB3	1.86	0.58
45:VJ:206:ALA:HA	45:VJ:209:ASP:CB	2.33	0.58
45:VL:318:ARG:HH12	45:VL:358:PRO:HG3	1.69	0.58
44:VM:262:TYR:HB3	44:VM:263:PRO:HD2	1.86	0.58
45:VN:22:GLU:HG2	45:VN:81:PHE:CG	2.38	0.58
45:VN:113:ILE:HD13	45:VN:150:LEU:CD2	2.33	0.58
44:WA:183:GLU:HG2	44:WA:184:PRO:CD	2.34	0.58
44:WA:319:TYR:CD2	44:WA:323:VAL:HG11	2.39	0.58
45:WB:183:TYR:O	45:WB:187:LEU:N	2.35	0.58
44:WC:348:PRO:HB2	45:WF:384:GLN:OE1	2.03	0.58
45:WD:99:ASN:O	45:WD:180:VAL:HG11	2.03	0.58
45:WD:318:ARG:HH11	45:WD:358:PRO:HG3	1.68	0.58
45:WF:119:VAL:HG22	45:WF:123:GLU:HG3	1.85	0.58
45:WF:217:LEU:HD12	45:WF:217:LEU:O	2.03	0.58
44:WK:213:CYS:CA	44:WK:217:LEU:HB2	2.34	0.58
3:0B:203:THR:HB	44:JI:57:GLY:CA	2.34	0.58
10:0N:212:ILE:O	45:KN:31:ASP:HB2	2.02	0.58
10:0N:245:LYS:HD3	44:KK:245:ASP:HB3	1.86	0.58
5:1D:93:GLN:HE22	44:EG:31:GLN:HG2	1.67	0.58
20:1J:330:LYS:O	45:HN:77:ARG:NH2	2.26	0.58
27:1W:243:ILE:HG12	45:LB:276:ARG:HH22	1.68	0.58
16:1X:103:ASN:HD21	44:MC:370:LYS:H	1.51	0.58
32:3I:271:LYS:HD3	45:FJ:111:GLU:OE2	2.02	0.58
11:4Q:17:ILE:HG23	45:WJ:125:GLU:O	2.02	0.58
38:5E:60:TRP:HA	45:OB:279:GLN:OE1	2.03	0.58
38:5F:157:ARG:NH1	45:NH:36:TYR:O	2.37	0.58
38:5G:29:LYS:HB3	38:5G:30:PRO:HD2	1.86	0.58
40:6F:93:LYS:HG2	40:6F:95:SER:H	1.69	0.58
35:7R:87:LYS:HG2	35:7R:88:TYR:CE1	2.39	0.58
35:7R:124:ASP:OD1	35:7R:126:THR:N	2.35	0.58
44:AA:240:ALA:HB1	44:AA:356:ASN:HD22	1.69	0.58
45:AB:258:ILE:HG13	45:AB:266:PHE:HZ	1.69	0.58
44:AE:155:GLU:HG2	44:AE:197:HIS:CD2	2.39	0.58
44:AG:168:GLY:O	44:AG:201:ALA:HA	2.03	0.58
45:AH:286:VAL:HG22	45:AH:321:MET:CE	2.34	0.58
45:AJ:286:VAL:O	45:AJ:290:THR:HG23	2.03	0.58
44:AK:10:GLY:O	44:AK:14:ILE:HG12	2.04	0.58
44:AK:224:TYR:HE2	45:AL:246:LEU:HD11	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:375:GLN:HB2	45:AN:379:LYS:NZ	2.19	0.58
44:BA:26:LEU:HD22	44:BA:363:VAL:HG23	1.85	0.58
44:BA:276:ILE:HG23	44:BA:281:ALA:HB2	1.86	0.58
44:BA:313:MET:HG2	44:BA:381:SER:CA	2.32	0.58
44:BA:320:ARG:HA	44:BA:356:ASN:O	2.04	0.58
45:BD:64:ILE:CG2	45:BD:119:VAL:HG11	2.33	0.58
45:BD:421:GLU:HA	45:BD:424:GLN:CG	2.33	0.58
45:BF:259:PRO:CG	45:BF:263:LEU:HD23	2.34	0.58
44:BG:103:PHE:CE2	44:BG:189:LEU:HD13	2.39	0.58
45:BJ:107:THR:HG21	45:BJ:401:GLU:HB3	1.85	0.58
44:BK:91:GLN:NE2	44:BK:125:LEU:HD21	2.19	0.58
45:BN:2:ARG:HA	45:BN:129:CYS:O	2.03	0.58
45:BN:317:PHE:CE1	45:BN:326:VAL:HG13	2.38	0.58
45:CB:169:VAL:HG22	45:CB:202:ILE:CB	2.32	0.58
45:CB:255:VAL:HG21	44:CC:100:ALA:HB1	1.85	0.58
45:CB:285:THR:CB	45:CB:287:PRO:HD2	2.33	0.58
44:CC:324:VAL:HG13	44:CC:325:PRO:HD2	1.85	0.58
45:CD:112:LEU:HD23	45:CD:112:LEU:O	2.03	0.58
45:CD:200:MET:CE	45:CD:268:ILE:HG21	2.33	0.58
45:CD:246:LEU:HD23	46:CE:501:GTP:O2A	2.04	0.58
45:CD:257:LEU:HA	45:CD:312:THR:CG2	2.34	0.58
44:CE:426:ALA:O	44:CE:429:GLU:HG2	2.03	0.58
45:CF:167:PHE:HE1	45:CF:200:MET:HE2	1.67	0.58
45:CF:379:LYS:HE3	45:CF:419:VAL:HG11	1.86	0.58
44:CG:221:ARG:O	44:CG:221:ARG:HG2	2.02	0.58
45:CJ:266:PHE:CE1	45:CJ:370:ASN:HB2	2.39	0.58
44:CK:4:VAL:HG12	44:CK:133:GLN:HB2	1.85	0.58
44:CK:32:PRO:HB3	44:CK:83:TYR:CE1	2.39	0.58
44:CK:254:GLU:HA	44:CK:257:THR:CG2	2.33	0.58
45:CL:168:SER:HB2	45:CL:201:VAL:CG1	2.33	0.58
44:CM:69:ASP:CB	44:CM:75:ILE:HD11	2.17	0.58
44:CM:269:LEU:HD23	44:CM:269:LEU:H	1.69	0.58
45:CN:2:ARG:HA	45:CN:131:GLN:HB2	1.85	0.58
45:CN:3:GLU:CA	45:CN:49:VAL:HG13	2.33	0.58
45:CN:169:VAL:HG13	45:CN:202:ILE:O	2.03	0.58
44:DA:140:SER:HA	44:DA:171:ILE:H	1.69	0.58
45:DB:375:GLN:O	45:DB:378:PHE:N	2.37	0.58
44:DE:35:GLN:HE22	44:DE:59:GLY:HA2	1.69	0.58
45:DF:256:ASN:C	45:DF:257:LEU:HD12	2.24	0.58
45:DF:360:GLY:O	45:DF:361:LEU:HD23	2.03	0.58
45:DH:66:MET:HE1	45:DH:147:MET:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:121:ARG:NH1	45:DH:121:ARG:HB2	2.18	0.58
45:DH:314:SER:CB	45:DH:350:LYS:HB3	2.30	0.58
44:DM:60:LYS:HD3	44:EM:283:HIS:CD2	2.38	0.58
45:DN:309:ARG:HH12	45:DN:342:VAL:HG23	1.68	0.58
45:DN:420:SER:O	45:DN:423:GLN:HG3	2.04	0.58
44:EA:270:SER:HB3	44:EA:378:ILE:HD13	1.85	0.58
44:EC:2:ARG:NH2	44:EC:243:ARG:HA	2.18	0.58
44:EC:69:ASP:OD1	44:EC:70:LEU:N	2.37	0.58
44:EC:242:LEU:CD1	44:EC:252:ILE:HG13	2.33	0.58
45:ED:26:ASP:OD2	45:ED:359:LYS:HE2	2.03	0.58
44:EE:238:LEU:O	44:EE:238:LEU:HD23	2.04	0.58
44:EE:296:PHE:CE2	44:EE:335:ILE:HG21	2.37	0.58
44:EG:223:THR:O	44:EG:227:LEU:HG	2.04	0.58
44:EI:288:VAL:HG11	44:EI:327:ASP:CG	2.24	0.58
45:EJ:237:THR:HG23	45:EJ:241:ARG:HH21	1.68	0.58
44:EK:21:TRP:HA	44:EK:21:TRP:CE3	2.38	0.58
44:EM:22:GLU:O	44:EM:26:LEU:N	2.32	0.58
44:EM:202:VAL:HG11	44:EM:270:SER:OG	2.03	0.58
44:EM:205:ASP:O	44:EM:209:ILE:HG13	2.04	0.58
44:FA:278:ALA:N	44:FA:369:ALA:HB2	2.18	0.58
44:FA:424:ASP:O	44:FA:428:LEU:N	2.32	0.58
45:FB:40:SER:O	45:FB:43:GLN:HB2	2.03	0.58
44:FC:210:TYR:HE2	45:FD:324:LYS:HA	1.68	0.58
45:FD:21:TRP:CZ3	45:FD:61:PRO:CB	2.84	0.58
45:FD:304:ASP:HB3	45:FD:307:HIS:CG	2.39	0.58
44:FE:166:LYS:C	44:FE:167:LEU:HD12	2.24	0.58
44:FE:252:ILE:HA	44:FE:255:PHE:CE2	2.39	0.58
45:FF:305:PRO:HB2	45:FF:310:TYR:OH	2.02	0.58
44:FG:324:VAL:HG23	44:FG:326:LYS:HG2	1.85	0.58
45:FJ:313:ALA:HB3	45:FJ:349:ILE:HD12	1.85	0.58
45:FN:169:VAL:CG2	45:FN:202:ILE:HB	2.33	0.58
45:FN:256:ASN:HB2	45:FN:350:LYS:CD	2.31	0.58
45:FN:386:THR:HG23	45:FN:387:ALA:H	1.68	0.58
45:FN:386:THR:HG23	45:FN:387:ALA:N	2.19	0.58
44:GA:156:ARG:HA	44:GA:159:VAL:HG12	1.86	0.58
45:GB:222:TYR:HB3	48:GB:502:GDP:O6	2.04	0.58
45:GB:274:THR:HG21	45:GB:279:GLN:HB2	1.86	0.58
44:GC:103:PHE:CD2	44:GC:189:LEU:HD12	2.39	0.58
45:GD:165:GLU:CG	45:GD:250:LEU:HD11	2.33	0.58
44:GE:232:ALA:O	44:GE:235:ILE:HG22	2.04	0.58
44:GG:3:GLU:OE2	44:GG:129:CYS:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:66:VAL:HG22	44:GI:68:LEU:CD1	2.33	0.58
44:GI:170:THR:O	44:GI:204:LEU:HB2	2.04	0.58
44:GI:230:LEU:CD2	44:GI:368:LEU:HD21	2.34	0.58
45:GJ:12:CYS:O	45:GJ:16:ILE:HG12	2.04	0.58
45:GJ:268:ILE:HG13	45:GJ:300:MET:CE	2.34	0.58
45:GJ:268:ILE:HG13	45:GJ:300:MET:HE2	1.85	0.58
45:GL:20:PHE:CA	45:GL:23:VAL:HG12	2.33	0.58
45:GL:290:THR:HG22	45:GL:293:MET:CE	2.29	0.58
44:GM:320:ARG:CA	44:GM:356:ASN:HB3	2.34	0.58
45:GN:66:MET:HE2	45:GN:116:VAL:CG2	2.31	0.58
45:GN:203:ASP:HB2	45:GN:301:CYS:HA	1.85	0.58
44:HA:17:GLY:HA2	44:HA:20:CYS:SG	2.44	0.58
44:HA:377:MET:O	44:HA:378:ILE:HD13	2.04	0.58
45:HB:148:GLY:O	45:HB:152:ILE:HG12	2.04	0.58
44:HC:141:VAL:HG11	44:HC:172:TYR:CD1	2.39	0.58
45:HD:260:PHE:HB3	45:HD:261:PRO:HD2	1.86	0.58
45:HF:232:ALA:CB	45:HF:268:ILE:HD12	2.34	0.58
44:HG:276:ILE:CD1	44:HG:281:ALA:HA	2.33	0.58
45:HH:378:PHE:HB3	45:HH:415:MET:CE	2.33	0.58
45:HJ:60:VAL:HG11	45:HJ:86:ARG:HH21	1.67	0.58
45:HJ:420:SER:O	45:HJ:423:GLN:HG3	2.04	0.58
45:HL:262:ARG:HH12	45:HL:418:LEU:HA	1.69	0.58
45:HL:362:LYS:HD2	45:HL:363:MET:CG	2.30	0.58
44:HM:4:VAL:HG11	44:HM:52:PHE:HE1	1.68	0.58
44:HM:14:ILE:HD11	44:HM:69:ASP:HB2	1.84	0.58
45:HN:317:PHE:HZ	45:HN:330:MET:CE	2.15	0.58
45:HN:396:HIS:HA	45:HN:399:THR:OG1	2.03	0.58
44:IA:6:SER:HG	44:IA:21:TRP:HZ2	1.51	0.58
44:IC:270:SER:CB	44:IC:378:ILE:HD13	2.34	0.58
44:IE:324:VAL:CG1	44:IE:325:PRO:HD2	2.33	0.58
44:IG:402:ARG:HB2	44:IG:405:VAL:CG2	2.34	0.58
44:II:319:TYR:HB2	44:II:355:ILE:HD13	1.85	0.58
44:IK:313:MET:HE1	44:IK:381:SER:CA	2.34	0.58
45:IL:272:PRO:C	45:IL:273:LEU:HD12	2.24	0.58
44:IM:2:ARG:HH21	44:IM:243:ARG:HA	1.68	0.58
44:IM:118:CYS:O	44:IM:122:ILE:HG12	2.04	0.58
44:IM:270:SER:HB2	44:IM:377:MET:O	2.04	0.58
44:JA:224:TYR:CE2	45:JB:323:THR:HG21	2.38	0.58
45:JB:66:MET:HE1	45:JB:116:VAL:HG21	1.85	0.58
45:JB:136:THR:HG21	45:JB:233:MET:CE	2.34	0.58
45:JB:286:VAL:CG1	45:JB:329:GLN:HG3	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:123:ARG:HD2	44:JC:161:TYR:OH	2.04	0.58
44:JE:123:ARG:HD3	44:JE:161:TYR:OH	2.04	0.58
45:JF:8:GLN:NE2	45:JF:14:ASN:HA	2.19	0.58
44:JG:54:SER:HB3	44:JG:64:ARG:HE	1.68	0.58
44:JG:200:VAL:HG13	44:JG:268:MET:CE	2.34	0.58
45:JH:67:ASP:OD1	45:JH:68:LEU:N	2.36	0.58
45:JH:86:ARG:HB2	45:JH:89:ASN:ND2	2.19	0.58
44:JI:174:SER:CB	44:JI:207:GLU:HB2	2.33	0.58
44:JI:328:VAL:HG11	44:JI:353:VAL:HG21	1.85	0.58
45:JJ:74:ASP:O	45:JJ:78:ALA:HB2	2.03	0.58
45:JJ:186:THR:O	45:JJ:189:VAL:HG12	2.04	0.58
45:JJ:396:HIS:HA	45:JJ:399:THR:HG22	1.85	0.58
44:JM:33:ASP:OD1	44:JM:85:GLN:NE2	2.36	0.58
44:JM:66:VAL:HG22	44:JM:68:LEU:CD2	2.34	0.58
44:KA:185:TYR:HE1	44:KA:398:MET:HG3	1.69	0.58
44:KA:199:ASP:O	44:KA:266:HIS:HB2	2.03	0.58
45:KB:317:PHE:O	45:KB:354:CYS:HB3	2.03	0.58
44:KG:150:GLY:O	44:KG:154:LEU:HD23	2.04	0.58
45:KH:105:HIS:CE1	45:KH:150:LEU:HD12	2.39	0.58
44:KI:136:LEU:HD13	44:KI:235:ILE:HD11	1.86	0.58
44:KI:291:ILE:HG13	44:KI:292:THR:N	2.18	0.58
45:KJ:263:LEU:HD11	45:KJ:421:GLU:HG2	1.86	0.58
44:KK:68:LEU:HD23	44:KK:93:ILE:HB	1.85	0.58
45:KN:6:HIS:CD2	45:KN:134:GLN:HG3	2.38	0.58
44:LA:287:SER:O	44:LA:291:ILE:HG23	2.03	0.58
45:LB:69:GLU:HA	45:LB:69:GLU:OE1	2.04	0.58
44:LC:111:GLY:O	44:LC:115:VAL:HG23	2.03	0.58
44:LC:249:ASN:OD1	44:LC:250:VAL:N	2.36	0.58
44:LC:319:TYR:CD1	44:LC:375:VAL:HG12	2.38	0.58
44:LI:181:VAL:H	45:LJ:256:ASN:ND2	2.00	0.58
44:LI:206:ASN:OD1	46:LI:501:GTP:N2	2.25	0.58
44:LI:350:GLY:C	45:LL:179:VAL:HG12	2.23	0.58
45:LL:15:GLN:O	45:LL:18:ALA:N	2.37	0.58
45:LL:286:VAL:HG11	45:LL:325:GLU:HB3	1.84	0.58
44:LM:53:PHE:CE2	44:LM:63:PRO:HG3	2.38	0.58
44:LM:161:TYR:HB3	44:LM:164:LYS:CG	2.33	0.58
44:LM:371:VAL:HG12	44:LM:372:MET:N	2.19	0.58
45:LN:218:THR:HG23	45:LN:219:THR:N	2.19	0.58
45:MB:262:ARG:CG	45:MB:263:LEU:HD12	2.34	0.58
45:MB:313:ALA:O	45:MB:349:ILE:HA	2.04	0.58
44:MC:325:PRO:O	44:MC:328:VAL:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MD:131:GLN:OE1	45:MD:131:GLN:HA	2.04	0.58
45:MD:238:CYS:SG	45:MD:318:ARG:NE	2.66	0.58
45:MJ:101:TRP:HE1	45:MJ:105:HIS:CD2	2.21	0.58
45:MJ:237:THR:CG2	45:MJ:250:LEU:HD21	2.30	0.58
45:MJ:293:MET:HE2	45:MJ:367:PHE:CB	2.33	0.58
44:MK:247:ALA:HB1	45:MN:222:TYR:CD2	2.39	0.58
44:NA:143:GLY:HA3	46:NA:501:GTP:O3B	2.03	0.58
44:NG:152:LEU:HA	44:NG:155:GLU:HB2	1.84	0.58
44:NG:175:PRO:HG3	44:NG:390:ARG:NH1	2.19	0.58
44:NI:99:ALA:HB1	44:NI:105:ARG:HB2	1.86	0.58
44:NI:135:PHE:O	44:NI:167:LEU:HB2	2.04	0.58
45:NJ:75:SER:O	45:NJ:78:ALA:N	2.35	0.58
45:NJ:330:MET:O	45:NJ:333:VAL:HG12	2.04	0.58
44:NM:304:LYS:O	44:NM:387:VAL:HG12	2.04	0.58
44:OC:9:VAL:CG1	44:OC:139:ASN:HB3	2.33	0.58
45:OD:118:ASP:O	45:OD:121:ARG:HG2	2.03	0.58
45:OH:182:PRO:O	45:OH:186:THR:HG22	2.04	0.58
44:OI:434:GLU:O	44:OI:437:ILE:HG22	2.03	0.58
44:OK:107:HIS:O	44:OK:107:HIS:ND1	2.37	0.58
44:OK:174:SER:OG	44:OK:207:GLU:HB2	2.03	0.58
44:OK:195:LEU:O	44:OK:195:LEU:HD23	2.04	0.58
45:ON:4:ILE:HG23	45:ON:132:GLY:O	2.04	0.58
45:ON:131:GLN:HA	45:ON:162:ARG:NH2	2.17	0.58
45:ON:377:MET:HA	45:ON:380:ARG:HH11	1.68	0.58
44:PA:72:PRO:HG3	44:PA:95:GLY:O	2.03	0.58
44:PA:243:ARG:HG3	44:PA:244:PHE:CE2	2.38	0.58
44:PA:427:ALA:HA	44:PA:430:LYS:HZ2	1.68	0.58
45:PB:311:LEU:O	45:PB:348:ASN:ND2	2.33	0.58
45:PF:309:ARG:HD2	45:PF:339:SER:O	2.04	0.58
45:PL:203:ASP:OD2	45:PL:377:MET:HE1	2.04	0.58
45:PL:250:LEU:O	45:PL:254:ALA:N	2.36	0.58
45:PL:325:GLU:HA	45:PL:328:GLU:CG	2.33	0.58
44:PM:358:GLN:CD	44:PM:359:PRO:HD2	2.24	0.58
45:PN:197:ASP:HB3	45:PN:198:GLU:OE1	2.04	0.58
45:PN:268:ILE:HG22	45:PN:368:VAL:HG22	1.84	0.58
45:QB:113:ILE:HD11	45:QB:151:LEU:HB2	1.85	0.58
45:QB:297:LYS:HE2	45:QB:297:LYS:HA	1.86	0.58
44:QC:278:ALA:N	44:QC:369:ALA:HB2	2.19	0.58
44:QI:10:GLY:HA2	44:QI:145:THR:CG2	2.33	0.58
45:QJ:4:ILE:HG22	45:QJ:132:GLY:H	1.67	0.58
44:QK:121:ARG:HH21	44:QK:124:LYS:CE	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:69:GLU:OE1	45:QL:71:GLY:N	2.34	0.58
45:QL:116:VAL:O	45:QL:120:VAL:HG23	2.03	0.58
44:QM:70:LEU:HD12	44:QM:145:THR:HG22	1.86	0.58
45:QN:28:HIS:CG	45:QN:47:ILE:HD13	2.38	0.58
45:QN:149:THR:HA	45:QN:152:ILE:CG1	2.34	0.58
44:RA:271:SER:OG	44:RA:301:MET:HA	2.04	0.58
45:RB:192:LEU:HD12	45:RB:196:ALA:HB2	1.85	0.58
45:RD:262:ARG:NH2	45:RD:421:GLU:OE1	2.35	0.58
44:RE:294:SER:HA	44:RE:297:GLU:CD	2.24	0.58
45:RF:18:ALA:HB2	45:RF:76:VAL:CG2	2.34	0.58
45:RF:36:TYR:HE2	45:RF:44:LEU:HD11	1.69	0.58
44:RG:239:THR:HG23	44:RG:243:ARG:HH21	1.68	0.58
44:RI:186:ASN:OD1	44:RI:187:SER:N	2.37	0.58
44:RI:244:PHE:HD2	44:RI:358:GLN:HB2	1.67	0.58
45:RJ:256:ASN:OD1	44:RK:181:VAL:HG22	2.03	0.58
44:RK:209:ILE:HG12	44:RK:302:MET:CE	2.32	0.58
44:RK:326:LYS:HZ3	45:RL:212:PHE:HE2	1.52	0.58
44:RM:22:GLU:HG3	44:RM:83:TYR:CZ	2.39	0.58
44:SC:79:ARG:O	44:SC:84:ARG:HG3	2.03	0.58
44:SC:191:THR:O	44:SC:195:LEU:HB2	2.04	0.58
44:SC:270:SER:HB2	44:SC:378:ILE:HD13	1.85	0.58
44:SC:387:VAL:HG12	44:SC:390:ARG:HH12	1.69	0.58
45:SD:99:ASN:HA	45:SD:142:GLY:N	2.13	0.58
45:SD:186:THR:HA	45:SD:189:VAL:CG2	2.33	0.58
45:SF:46:ARG:NH2	44:SG:76:ASP:OD2	2.37	0.58
44:SG:156:ARG:O	44:SG:160:ASP:N	2.35	0.58
44:SG:169:PHE:CE1	44:SG:202:VAL:HG21	2.39	0.58
44:SG:274:PRO:HD2	44:SG:374:ALA:CA	2.32	0.58
44:SG:307:PRO:HA	44:SG:383:ALA:CB	2.34	0.58
45:SJ:1:MET:SD	45:SJ:2:ARG:HB2	2.44	0.58
45:SJ:2:ARG:HH21	45:SJ:240:LEU:HG	1.69	0.58
45:SJ:313:ALA:CB	45:SJ:349:ILE:HG12	2.34	0.58
45:SJ:318:ARG:HG2	45:SJ:354:CYS:CB	2.32	0.58
45:SL:10:GLY:O	45:SL:14:ASN:N	2.36	0.58
45:SN:2:ARG:H	45:SN:129:CYS:HB3	1.69	0.58
45:SN:97:ALA:C	45:SN:103:LYS:HZ3	2.03	0.58
45:SN:185:ALA:O	45:SN:189:VAL:HG23	2.04	0.58
44:TA:32:PRO:HB3	44:TA:83:TYR:CD1	2.39	0.58
44:TA:175:PRO:HG3	44:TA:304:LYS:CD	2.34	0.58
44:TC:143:GLY:HA2	46:TC:501:GTP:H5'	1.84	0.58
44:TC:348:PRO:HB2	45:TD:384:GLN:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:186:THR:HG21	45:TD:385:PHE:CE2	2.39	0.58
45:TD:389:PHE:HZ	45:TD:405:GLU:HB2	1.69	0.58
44:TE:75:ILE:CG2	44:TE:92:LEU:HD11	2.34	0.58
44:TE:141:VAL:CG1	44:TE:172:TYR:HA	2.34	0.58
44:TE:171:ILE:HG23	44:TE:204:LEU:O	2.03	0.58
45:TF:13:GLY:O	45:TF:16:ILE:HB	2.04	0.58
45:TF:34:GLY:O	45:TF:58:ARG:HA	2.04	0.58
45:TF:301:CYS:HB3	45:TF:377:MET:HE1	1.85	0.58
45:TF:330:MET:HE3	45:TF:330:MET:HA	1.86	0.58
44:TG:242:LEU:HD11	44:TG:252:ILE:CG1	2.34	0.58
45:TH:309:ARG:N	45:TH:372:THR:OG1	2.26	0.58
44:TI:86:LEU:HD23	44:TI:87:PHE:CE2	2.39	0.58
44:TK:306:ASP:OD2	44:TK:309:HIS:NE2	2.37	0.58
45:TL:258:ILE:HG13	45:TL:266:PHE:HZ	1.68	0.58
44:TM:313:MET:CE	44:TM:344:VAL:HB	2.33	0.58
44:TM:316:SER:O	44:TM:378:ILE:N	2.35	0.58
44:UA:184:PRO:O	44:UA:188:ILE:HG12	2.04	0.58
44:UA:270:SER:HB2	44:UA:378:ILE:HD13	1.85	0.58
44:UC:121:ARG:HG3	44:UC:125:LEU:CD1	2.33	0.58
44:UC:209:ILE:HD11	44:UC:302:MET:CG	2.34	0.58
44:UC:348:PRO:HG2	45:UD:384:GLN:HB2	1.86	0.58
44:UE:141:VAL:HG11	44:UE:172:TYR:CD1	2.39	0.58
45:UF:330:MET:SD	45:UF:349:ILE:HD12	2.44	0.58
44:UG:13:GLY:HA2	44:UG:16:VAL:CG2	2.34	0.58
44:UG:195:LEU:CD2	44:UG:428:LEU:HD11	2.34	0.58
44:UG:351:PHE:HB2	45:UH:176:SER:OG	2.03	0.58
44:UI:238:LEU:HD21	44:UI:255:PHE:CZ	2.38	0.58
45:UJ:49:VAL:CG2	45:UJ:241:ARG:HG2	2.34	0.58
45:UJ:310:TYR:O	45:UJ:342:VAL:HG12	2.04	0.58
45:UL:372:THR:HA	45:UL:422:TYR:CE2	2.24	0.58
44:UM:191:THR:CA	44:UM:194:LEU:HG	2.33	0.58
44:UM:257:THR:HA	45:UN:397:TRP:HE1	1.69	0.58
45:UN:257:LEU:HD11	45:UN:314:SER:CB	2.16	0.58
45:UN:322:SER:O	45:UN:326:VAL:HG23	2.03	0.58
44:VC:274:PRO:CG	44:VC:291:ILE:HB	2.33	0.58
44:VC:372:MET:C	44:VC:373:ARG:HD2	2.24	0.58
45:VD:295:ASP:OD1	45:VD:297:LYS:N	2.37	0.58
45:VF:231:ALA:O	45:VF:235:GLY:N	2.37	0.58
44:VG:22:GLU:HG3	44:VG:83:TYR:CE2	2.39	0.58
44:VG:88:HIS:HB3	44:VG:91:GLN:HG2	1.86	0.58
44:VG:312:TYR:CD2	44:VG:381:SER:HB3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:151:LEU:O	45:VL:155:VAL:HG23	2.03	0.58
45:VN:80:PRO:O	45:VN:81:PHE:HB2	2.03	0.58
45:VN:285:THR:O	45:VN:287:PRO:HD2	2.04	0.58
44:WA:111:GLY:O	44:WA:153:LEU:HG	2.03	0.58
45:WB:135:ILE:HB	45:WB:166:THR:HG22	1.85	0.58
45:WF:113:ILE:O	45:WF:116:VAL:HG12	2.04	0.58
45:WF:139:LEU:HA	45:WF:145:SER:HB2	1.85	0.58
44:WG:54:SER:HB3	44:WG:64:ARG:NH2	2.19	0.58
44:WG:210:TYR:CE1	44:WG:227:LEU:HD11	2.38	0.58
44:WI:254:GLU:HA	44:WI:257:THR:CG2	2.34	0.58
44:WI:254:GLU:HA	44:WI:257:THR:HG22	1.86	0.58
45:WJ:119:VAL:HG22	45:WJ:123:GLU:CG	2.32	0.58
44:WK:394:LYS:HZ2	45:WL:346:PRO:CB	2.16	0.58
45:WL:244:GLY:HA2	45:WL:355:ASP:OD2	2.03	0.58
44:WM:273:ALA:HB1	44:WM:274:PRO:HA	1.86	0.58
45:WN:304:ASP:OD1	45:WN:305:PRO:HD2	2.04	0.58
5:OD:57:THR:HG22	44:EC:219:ILE:HD11	1.84	0.58
5:OD:87:GLN:HB3	44:EC:77:GLU:OE2	2.03	0.58
7:OF:24:THR:OG1	44:EE:279:GLU:OE2	2.21	0.58
12:OS:257:PRO:HG2	45:AB:417:ASP:OD2	2.04	0.58
16:OX:3:ARG:NH2	44:MA:247:ALA:O	2.35	0.58
20:1J:134:HIS:CE1	44:IE:282:TYR:HH	2.16	0.58
22:1L:308:ARG:CZ	44:BG:367:ASP:HA	2.32	0.58
25:1P:302:LYS:HD3	45:TD:362:LYS:NZ	2.19	0.58
16:1X:8:TYR:HB2	44:ME:357:TYR:CE1	2.38	0.58
22:2L:525:LEU:HD21	45:BN:319:GLY:HA2	1.85	0.58
16:2X:3:ARG:HG3	44:MI:247:ALA:HA	1.85	0.58
32:3I:203:SER:HB3	44:GK:340:THR:OG1	2.03	0.58
28:4C:239:LYS:HE2	45:JN:36:TYR:CE2	2.21	0.58
31:4H:193:LEU:CD1	45:AL:362:LYS:HA	2.33	0.58
38:5F:141:CYS:HA	38:5F:144:LEU:CD2	2.34	0.58
38:5F:206:VAL:HG21	44:LG:426:ALA:HB1	1.86	0.58
11:5Q:70:GLY:HA2	11:5Q:151:THR:O	2.04	0.58
36:5S:69:TYR:CD1	36:5S:74:LEU:HD12	2.39	0.58
40:6F:44:ARG:HD3	45:IF:40:SER:CA	2.29	0.58
11:6Q:33:HIS:NE2	11:6Q:50:MET:HB2	2.18	0.58
35:6R:26:HIS:CG	44:LK:244:PHE:HE1	2.22	0.58
35:6R:231:TYR:HA	45:CN:218:THR:HG22	1.85	0.58
35:6R:462:ASN:OD1	45:FN:219:THR:O	2.22	0.58
35:7R:315:MET:HG3	35:7R:316:THR:N	2.18	0.58
35:7R:592:PHE:HB2	35:7R:600:LEU:HG	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:323:VAL:HG12	44:AC:373:ARG:CD	2.34	0.58
44:AE:271:SER:OG	44:AE:301:MET:HA	2.04	0.58
44:AI:195:LEU:HG	44:AI:195:LEU:O	2.04	0.58
44:AK:189:LEU:HD12	44:AK:189:LEU:H	1.69	0.58
45:AL:113:ILE:HD13	45:AL:150:LEU:CD2	2.34	0.58
44:AM:240:ALA:HB3	44:AM:320:ARG:NH2	2.19	0.58
44:AM:377:MET:HE1	44:AM:379:SER:HB2	1.86	0.58
45:BD:73:MET:SD	45:BD:92:PHE:HB3	2.44	0.58
44:BG:53:PHE:O	44:BG:64:ARG:NH2	2.37	0.58
44:BG:175:PRO:HD2	44:BG:207:GLU:OE1	2.04	0.58
44:BM:179:THR:CG2	45:BN:351:SER:HB2	2.23	0.58
45:BN:287:PRO:O	45:BN:290:THR:HG22	2.04	0.58
44:CA:363:VAL:CG2	44:CA:364:PRO:HD2	2.34	0.58
44:CC:140:SER:CB	46:CC:501:GTP:H1'	2.33	0.58
44:CE:276:ILE:HD11	44:CE:280:LYS:O	2.04	0.58
45:CH:262:ARG:NH1	45:CH:421:GLU:OE1	2.36	0.58
45:CL:305:PRO:HB2	45:CL:310:TYR:OH	2.04	0.58
44:CM:67:PHE:C	44:CM:68:LEU:HD22	2.24	0.58
44:CM:102:ASN:HA	44:CM:408:TYR:OH	2.04	0.58
44:DA:319:TYR:CZ	44:DA:328:VAL:HG22	2.38	0.58
45:DB:21:TRP:CZ3	45:DB:61:PRO:HB3	2.39	0.58
45:DB:222:TYR:O	45:DB:225:LEU:N	2.37	0.58
44:DC:172:TYR:HB3	44:DC:173:PRO:HD2	1.85	0.58
44:DC:191:THR:HA	44:DC:194:LEU:HG	1.86	0.58
44:DC:288:VAL:HA	44:DC:291:ILE:HG12	1.84	0.58
45:DD:314:SER:HB2	45:DD:350:LYS:HB3	1.86	0.58
44:DE:184:PRO:O	44:DE:188:ILE:HG12	2.03	0.58
44:DE:294:SER:O	44:DE:297:GLU:HG3	2.04	0.58
45:DF:21:TRP:CH2	45:DF:61:PRO:HB3	2.38	0.58
45:DF:165:GLU:OE2	45:DF:250:LEU:HD13	2.04	0.58
44:DG:215:ARG:NH2	44:DG:300:ASN:OD1	2.36	0.58
45:DH:187:LEU:HD11	45:DH:408:PHE:CE1	2.39	0.58
44:DI:194:LEU:O	44:DI:194:LEU:HD23	2.04	0.58
45:DJ:274:THR:CB	45:DJ:282:ARG:HH12	2.17	0.58
45:DL:253:LEU:O	45:DL:257:LEU:HD13	2.02	0.58
45:DL:293:MET:SD	45:DL:367:PHE:HB2	2.43	0.58
45:DL:325:GLU:HB2	44:DM:221:ARG:HH12	1.67	0.58
44:DM:1:MET:HG3	45:DN:94:GLN:NE2	2.19	0.58
44:DM:9:VAL:CG2	44:DM:146:GLY:HA2	2.32	0.58
44:DM:226:ASN:O	44:DM:230:LEU:HD23	2.04	0.58
45:DN:28:HIS:NE2	45:DN:241:ARG:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:268:ILE:HB	45:DN:367:PHE:O	2.03	0.58
44:EA:296:PHE:CE1	44:EA:377:MET:HG2	2.39	0.58
45:EB:377:MET:O	45:EB:381:VAL:HG23	2.04	0.58
44:EC:1:MET:HE2	45:ED:70:PRO:HG3	1.86	0.58
44:EC:73:THR:HA	44:EC:76:ASP:HB2	1.85	0.58
44:EC:217:LEU:HB3	44:EC:219:ILE:CG1	2.33	0.58
45:ED:178:THR:N	45:ED:181:GLU:OE2	2.35	0.58
45:ED:286:VAL:HG11	45:ED:325:GLU:HG2	1.84	0.58
45:EF:60:VAL:HG11	45:EF:86:ARG:NH2	2.18	0.58
45:EF:67:ASP:OD1	45:EF:68:LEU:N	2.36	0.58
45:EF:346:PRO:HB2	44:EG:394:LYS:NZ	2.18	0.58
45:EH:44:LEU:HD23	45:EH:47:ILE:HD12	1.85	0.58
45:EJ:5:VAL:HG22	45:EJ:133:PHE:CD1	2.35	0.58
45:EJ:322:SER:CB	44:EK:221:ARG:HD2	2.28	0.58
45:EL:107:THR:HG23	45:EL:108:GLU:N	2.17	0.58
45:EL:293:MET:HG3	45:EL:367:PHE:HB2	1.85	0.58
44:EM:260:VAL:O	44:EM:260:VAL:HG23	2.03	0.58
45:EN:199:CYS:HB3	45:EN:265:PHE:CD2	2.38	0.58
44:FC:4:VAL:HG23	44:FC:134:GLY:O	2.04	0.58
44:FC:11:GLN:HA	44:FC:14:ILE:CD1	2.29	0.58
44:FC:150:GLY:O	44:FC:154:LEU:HG	2.04	0.58
44:FC:229:ARG:HA	44:FC:232:ALA:HB3	1.86	0.58
44:FC:273:ALA:HB1	44:FC:274:PRO:HA	1.84	0.58
44:FC:425:LEU:O	44:FC:429:GLU:N	2.33	0.58
44:FE:260:VAL:HG22	44:FE:262:TYR:O	2.03	0.58
44:FG:237:SER:HA	44:FG:320:ARG:CZ	2.33	0.58
45:FH:167:PHE:CE2	45:FH:233:MET:HG3	2.39	0.58
44:FI:105:ARG:HA	44:FI:109:THR:HG22	1.86	0.58
44:FK:98:ASP:HB3	45:FL:249:ASP:OD2	2.03	0.58
44:FK:276:ILE:HD11	44:FK:280:LYS:HG3	1.86	0.58
45:FL:268:ILE:CG2	45:FL:368:VAL:HG22	2.33	0.58
44:GA:175:PRO:HB3	44:GA:390:ARG:CZ	2.33	0.58
45:GD:268:ILE:HG13	45:GD:300:MET:HE3	1.85	0.58
44:GE:67:PHE:C	44:GE:68:LEU:HD12	2.23	0.58
44:GE:68:LEU:HD21	44:GE:118:CYS:SG	2.44	0.58
44:GG:194:LEU:O	44:GG:198:THR:HB	2.04	0.58
45:GH:10:GLY:O	45:GH:14:ASN:N	2.34	0.58
45:GH:178:THR:N	45:GH:181:GLU:OE2	2.35	0.58
44:GI:20:CYS:HA	44:GI:232:ALA:HB1	1.85	0.58
44:GK:167:LEU:HB3	44:GK:169:PHE:HE2	1.69	0.58
45:GL:114:ASP:O	45:GL:117:LEU:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:67:PHE:C	44:GM:68:LEU:HD12	2.24	0.58
45:GN:314:SER:HB3	45:GN:368:VAL:O	2.03	0.58
45:GN:378:PHE:HB3	45:GN:419:VAL:HG21	1.86	0.58
44:HA:109:THR:HG22	44:HA:110:ILE:HG23	1.85	0.58
45:HB:208:TYR:CE1	45:HB:225:LEU:HD11	2.39	0.58
45:HB:210:ILE:HG23	45:HB:214:THR:HG21	1.86	0.58
45:HB:242:PHE:HB3	45:HB:356:ILE:CG1	2.34	0.58
44:HE:169:PHE:HA	44:HE:202:VAL:CG2	2.34	0.58
45:HF:40:SER:OG	45:HF:43:GLN:HG3	2.04	0.58
44:HG:250:VAL:HG11	44:HG:318:MET:HE1	1.86	0.58
45:HJ:97:ALA:HB3	45:HJ:143:THR:HB	1.84	0.58
44:HK:315:CYS:HA	44:HK:379:SER:OG	2.02	0.58
45:HL:380:ARG:NH1	45:HL:384:GLN:OE1	2.36	0.58
44:IE:312:TYR:O	44:IE:344:VAL:HG23	2.04	0.58
44:IM:183:GLU:N	44:IM:184:PRO:HD2	2.18	0.58
45:JB:100:ASN:ND2	45:JB:103:LYS:HD3	2.19	0.58
45:JB:318:ARG:CZ	45:JB:358:PRO:HG3	2.34	0.58
45:JF:30:ILE:HG13	45:JF:51:TYR:CE2	2.39	0.58
45:JJ:22:GLU:HG2	45:JJ:81:PHE:CG	2.39	0.58
45:JJ:66:MET:HB2	45:JJ:91:VAL:O	2.04	0.58
45:JJ:75:SER:HA	45:JJ:78:ALA:CB	2.34	0.58
45:JJ:173:PRO:HG2	45:JJ:380:ARG:CD	2.32	0.58
44:JK:269:LEU:HD23	44:JK:379:SER:O	2.04	0.58
45:JL:32:PRO:HD3	45:JL:81:PHE:CE2	2.38	0.58
44:KA:174:SER:HB3	44:KA:177:VAL:O	2.04	0.58
44:KG:317:MET:HE1	44:KG:319:TYR:OH	2.03	0.58
44:KG:428:LEU:HA	44:KG:431:ASP:HB2	1.85	0.58
45:KH:181:GLU:CG	45:KH:182:PRO:HD3	2.32	0.58
45:KJ:269:GLY:HA2	45:KJ:300:MET:CE	2.34	0.58
45:KL:7:ILE:HB	45:KL:135:ILE:CD1	2.34	0.58
45:KL:187:LEU:HD21	45:KL:408:PHE:CD1	2.39	0.58
44:KM:13:GLY:HA2	44:KM:16:VAL:HG12	1.86	0.58
44:KM:294:SER:HA	44:KM:297:GLU:OE1	2.04	0.58
44:LA:242:LEU:HD21	44:LA:252:ILE:HG13	1.84	0.58
44:LA:267:PHE:HB3	44:LA:384:ILE:HD13	1.86	0.58
45:LD:105:HIS:NE2	45:LD:150:LEU:HD12	2.19	0.58
45:LD:282:ARG:HD3	45:LD:288:GLU:CD	2.23	0.58
44:LE:288:VAL:O	44:LE:291:ILE:HG22	2.03	0.58
44:LG:88:HIS:CG	44:LG:89:PRO:HD2	2.38	0.58
44:LG:188:ILE:HD12	44:LG:395:PHE:HB2	1.85	0.58
44:LK:72:PRO:HD2	45:LL:2:ARG:NH2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:101:TRP:CZ3	45:LL:187:LEU:HD13	2.39	0.58
45:LL:295:ASP:CG	45:LL:297:LYS:HG2	2.24	0.58
44:LM:68:LEU:CD2	44:LM:118:CYS:HB2	2.29	0.58
44:MA:1:MET:HE2	45:MD:94:GLN:HB3	1.86	0.58
44:MA:100:ALA:HB1	45:MB:252:LYS:HA	1.86	0.58
44:MC:209:ILE:HG21	44:MC:227:LEU:HD13	1.85	0.58
44:MC:316:SER:CB	44:MC:352:LYS:HB3	2.34	0.58
45:MF:267:MET:HE1	45:MF:371:SER:HB3	1.84	0.58
44:MG:167:LEU:HD22	44:MG:252:ILE:HD11	1.86	0.58
45:MH:213:ARG:HB3	45:MH:297:LYS:NZ	2.19	0.58
44:MI:200:VAL:HG13	44:MI:268:MET:CE	2.34	0.58
44:MM:187:SER:HG	44:MM:188:ILE:HD12	1.67	0.58
45:NB:34:GLY:HA3	45:NB:58:ARG:HG3	1.86	0.58
44:NC:183:GLU:N	44:NC:184:PRO:HD2	2.19	0.58
45:ND:58:ARG:CZ	45:OD:280:GLN:HE22	2.16	0.58
44:NE:104:ALA:HA	44:NE:413:MET:HE2	1.85	0.58
45:NF:22:GLU:HA	45:NF:81:PHE:CD2	2.39	0.58
44:NG:54:SER:CB	44:NG:64:ARG:HH21	2.16	0.58
44:NG:320:ARG:NH1	44:NG:361:THR:H	2.01	0.58
44:NI:76:ASP:OD1	44:NI:79:ARG:NH2	2.37	0.58
44:NK:31:GLN:OE1	44:NK:32:PRO:HD2	2.04	0.58
44:NK:168:GLY:O	44:NK:201:ALA:HA	2.04	0.58
45:NL:166:THR:HG22	45:NL:198:GLU:O	2.04	0.58
44:NM:66:VAL:HG22	44:NM:68:LEU:CD1	2.34	0.58
44:NM:250:VAL:HG23	44:NM:254:GLU:OE2	2.04	0.58
44:NM:363:VAL:HG23	44:NM:364:PRO:HD2	1.85	0.58
45:NN:312:THR:CB	45:NN:348:ASN:HB2	2.33	0.58
45:OB:156:ARG:HD3	45:OB:195:ASN:HB3	1.86	0.58
44:OG:258:ASN:C	44:OG:259:LEU:HD22	2.25	0.58
44:OI:189:LEU:O	44:OI:192:HIS:HB3	2.03	0.58
45:OJ:248:SER:CB	45:OJ:252:LYS:HD2	2.34	0.58
45:OL:282:ARG:HH11	45:OL:283:ALA:H	1.51	0.58
44:OM:107:HIS:NE2	44:OM:152:LEU:HD13	2.19	0.58
44:OM:328:VAL:CG1	44:OM:353:VAL:HG21	2.33	0.58
45:ON:143:THR:HG22	48:ON:501:GDP:O3B	2.04	0.58
45:PB:316:LEU:CG	45:PB:352:SER:HB2	2.29	0.58
44:PC:139:ASN:OD1	44:PC:170:THR:HG22	2.04	0.58
44:PC:238:LEU:HD11	44:PC:255:PHE:HZ	1.69	0.58
45:PD:32:PRO:HG3	45:PD:81:PHE:HE1	1.69	0.58
44:PG:212:ILE:CD1	44:PG:300:ASN:HA	2.34	0.58
44:PG:332:ILE:HD12	44:PG:351:PHE:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:363:VAL:HG23	44:PG:364:PRO:HD2	1.86	0.58
45:PH:146:GLY:HA2	45:PH:149:THR:HG22	1.84	0.58
45:PH:330:MET:CE	45:PH:349:ILE:HB	2.33	0.58
44:PI:2:ARG:H	44:PI:2:ARG:HD3	1.68	0.58
45:PJ:30:ILE:HD11	45:PJ:47:ILE:HD11	1.85	0.58
44:PK:91:GLN:HG3	44:PK:92:LEU:CD2	2.34	0.58
44:PK:107:HIS:ND1	44:PK:107:HIS:O	2.37	0.58
44:PK:320:ARG:NH2	44:PK:360:PRO:HA	2.19	0.58
45:PL:61:PRO:HG2	45:PL:84:LEU:HB3	1.84	0.58
44:PM:4:VAL:HG23	44:PM:134:GLY:O	2.03	0.58
44:PM:321:GLY:N	44:PM:356:ASN:O	2.31	0.58
45:PN:139:LEU:HD23	45:PN:185:ALA:HA	1.84	0.58
44:QA:183:GLU:HG2	44:QA:184:PRO:HD3	1.86	0.58
45:QB:112:LEU:O	45:QB:112:LEU:HD23	2.04	0.58
45:QD:117:LEU:HA	45:QD:120:VAL:CG1	2.33	0.58
45:QD:232:ALA:O	45:QD:236:VAL:HG23	2.02	0.58
44:QE:175:PRO:HB3	44:QE:390:ARG:CZ	2.34	0.58
44:QE:287:SER:O	44:QE:291:ILE:HG12	2.04	0.58
45:QF:289:LEU:HD11	45:QF:363:MET:CB	2.34	0.58
45:QJ:304:ASP:HB3	45:QJ:307:HIS:CG	2.38	0.58
45:QL:58:ARG:HD3	45:RL:281:TYR:HE1	1.69	0.58
45:QL:156:ARG:NH1	45:QL:162:ARG:O	2.34	0.58
44:RA:396:ASP:OD2	44:RA:422:ARG:NE	2.29	0.58
45:RB:5:VAL:HB	45:RB:62:ARG:O	2.03	0.58
45:RB:237:THR:HG23	45:RB:241:ARG:CZ	2.34	0.58
45:RB:382:ALA:O	45:RB:386:THR:HG22	2.04	0.58
44:RC:252:ILE:HA	44:RC:255:PHE:CD2	2.39	0.58
44:RE:14:ILE:HG23	44:RE:67:PHE:CD2	2.38	0.58
44:RE:115:VAL:O	44:RE:119:LEU:HD23	2.04	0.58
45:RF:313:ALA:HA	45:RF:369:GLY:CA	2.34	0.58
45:RF:315:ALA:C	45:RF:316:LEU:HD12	2.23	0.58
44:RG:296:PHE:HD1	44:RG:341:ILE:HD13	1.65	0.58
45:RH:184:ASN:OD1	45:RH:185:ALA:N	2.37	0.58
45:RH:286:VAL:HG11	44:RI:221:ARG:NH2	2.19	0.58
44:RI:65:ALA:HB3	44:RI:91:GLN:NE2	2.18	0.58
44:RK:202:VAL:CG1	44:RK:270:SER:HB3	2.34	0.58
45:RL:244:GLY:HA3	45:RL:354:CYS:HA	1.84	0.58
44:RM:56:THR:HG23	44:RM:58:ALA:H	1.69	0.58
44:RM:320:ARG:CD	44:RM:374:ALA:HB3	2.33	0.58
45:RN:6:HIS:O	45:RN:64:ILE:HD12	2.04	0.58
45:RN:91:VAL:CG2	45:RN:116:VAL:HG23	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:272:TYR:HA	44:SA:376:CYS:HA	1.85	0.58
44:SA:424:ASP:HA	44:SA:427:ALA:HB3	1.85	0.58
45:SD:221:THR:HG23	45:SD:223:GLY:H	1.69	0.58
45:SD:317:PHE:O	45:SD:353:ILE:HA	2.04	0.58
44:SE:209:ILE:HG12	44:SE:302:MET:HE1	1.85	0.58
44:SE:387:VAL:HA	44:SE:390:ARG:NH1	2.19	0.58
45:SF:27:GLU:O	45:SF:43:GLN:HG2	2.04	0.58
45:SF:49:VAL:HG11	45:SF:241:ARG:HD3	1.84	0.58
45:SF:256:ASN:O	45:SF:257:LEU:HD12	2.04	0.58
44:SG:138:PHE:HE1	44:SG:169:PHE:HD2	1.51	0.58
44:SG:320:ARG:NE	44:SG:360:PRO:HG3	2.19	0.58
44:SG:362:VAL:CG1	44:SG:370:LYS:HA	2.34	0.58
44:SI:286:LEU:N	44:SI:290:GLU:OE2	2.37	0.58
45:SJ:311:LEU:HD12	45:SJ:370:ASN:OD1	2.04	0.58
44:SK:238:LEU:HD21	44:SK:255:PHE:HE2	1.68	0.58
44:SK:268:MET:HB2	44:SK:379:SER:C	2.24	0.58
44:SK:324:VAL:HG11	44:SK:326:LYS:NZ	2.18	0.58
45:SL:314:SER:CA	45:SL:350:LYS:HB3	2.33	0.58
44:SM:231:ILE:O	44:SM:235:ILE:HG12	2.03	0.58
44:SM:408:TYR:HB3	44:SM:413:MET:CE	2.33	0.58
44:SM:430:LYS:O	44:SM:433:GLU:N	2.33	0.58
44:TA:68:LEU:CD2	44:TA:153:LEU:HD11	2.34	0.58
44:TA:320:ARG:NE	44:TA:360:PRO:HG3	2.10	0.58
44:TC:384:ILE:O	44:TC:387:VAL:HG22	2.03	0.58
45:TD:36:TYR:HB2	45:TD:59:TYR:HE1	1.69	0.58
45:TD:221:THR:HG23	45:TD:224:ASP:H	1.69	0.58
44:TE:387:VAL:CA	44:TE:390:ARG:HG2	2.33	0.58
45:TF:229:VAL:O	45:TF:233:MET:HG3	2.03	0.58
45:TH:199:CYS:HB3	45:TH:264:HIS:O	2.04	0.58
44:TI:11:GLN:HG3	44:TI:74:VAL:HG11	1.86	0.58
45:TJ:248:SER:OG	45:TJ:252:LYS:NZ	2.26	0.58
45:TJ:316:LEU:O	45:TJ:365:VAL:HA	2.04	0.58
45:TL:226:ASN:O	45:TL:229:VAL:N	2.37	0.58
44:TM:188:ILE:HD11	44:TM:391:LEU:HB3	1.86	0.58
45:TN:27:GLU:HG2	45:TN:241:ARG:HH12	1.69	0.58
45:TN:131:GLN:HG2	45:TN:250:LEU:HD12	1.86	0.58
45:TN:399:THR:HA	45:TN:403:MET:O	2.04	0.58
45:UB:325:GLU:H	44:UC:221:ARG:NH1	2.02	0.58
44:UC:21:TRP:HZ2	44:UC:65:ALA:HB2	1.69	0.58
44:UE:328:VAL:O	44:UE:332:ILE:N	2.31	0.58
45:UF:19:LYS:HG2	45:UF:226:ASN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:215:ARG:CZ	44:UG:299:ALA:HB1	2.33	0.58
44:UG:225:THR:O	44:UG:229:ARG:HG2	2.04	0.58
45:UH:378:PHE:HB3	45:UH:415:MET:HE2	1.85	0.58
44:UI:183:GLU:O	44:UI:186:ASN:N	2.37	0.58
45:UJ:317:PHE:HB2	45:UJ:353:ILE:HD13	1.84	0.58
44:UK:68:LEU:HD21	44:UK:118:CYS:CB	2.32	0.58
44:UK:288:VAL:HA	44:UK:291:ILE:CG1	2.34	0.58
45:UL:42:LEU:HD21	45:UL:243:PRO:HD3	1.86	0.58
44:VA:101:ASN:HA	44:VA:144:GLY:HA2	1.85	0.58
44:VA:135:PHE:O	44:VA:136:LEU:HD23	2.03	0.58
44:VA:311:LYS:HB2	44:VA:344:VAL:CG1	2.33	0.58
44:VC:161:TYR:HB3	44:VC:164:LYS:NZ	2.19	0.58
44:VC:401:LYS:HE3	45:VD:344:TRP:CD2	2.39	0.58
45:VD:177:ASP:N	45:VD:181:GLU:OE2	2.30	0.58
45:VD:248:SER:OG	45:VD:253:LEU:HD12	2.02	0.58
45:VD:359:LYS:O	45:VD:359:LYS:HD2	2.04	0.58
45:VD:390:ARG:HG3	45:VD:391:ARG:HG2	1.85	0.58
44:VE:319:TYR:CD2	44:VE:323:VAL:HG21	2.39	0.58
45:VH:283:ALA:O	45:VH:288:GLU:HG3	2.04	0.58
44:VI:195:LEU:CD2	44:VI:428:LEU:HD12	2.34	0.58
45:VJ:226:ASN:O	45:VJ:229:VAL:HG12	2.03	0.58
45:VL:28:HIS:HA	45:VL:43:GLN:OE1	2.04	0.58
44:VM:171:ILE:HG12	44:VM:204:LEU:HB3	1.84	0.58
45:VN:166:THR:O	45:VN:199:CYS:HA	2.04	0.58
45:VN:193:VAL:HG23	45:VN:264:HIS:CE1	2.39	0.58
45:VN:310:TYR:CD1	45:VN:371:SER:HB2	2.39	0.58
44:WA:172:TYR:HB3	44:WA:173:PRO:HD2	1.84	0.58
45:WB:135:ILE:O	45:WB:167:PHE:N	2.34	0.58
45:WD:217:LEU:HD12	45:WD:217:LEU:O	2.03	0.58
44:WE:93:ILE:HD11	44:WE:121:ARG:HG3	1.86	0.58
45:WF:113:ILE:CA	45:WF:116:VAL:HG12	2.31	0.58
44:WK:177:VAL:CG1	45:WL:327:ASP:HB3	2.34	0.58
44:WM:184:PRO:CA	44:WM:187:SER:HB2	2.29	0.58
44:WM:313:MET:HA	44:WM:344:VAL:HG12	1.85	0.58
44:WM:314:ALA:O	44:WM:380:ASN:N	2.33	0.58
45:WN:233:MET:O	45:WN:236:VAL:HG12	2.04	0.58
4:0C:81:TYR:HA	45:EH:356:ILE:CD1	2.33	0.57
6:0E:61:LYS:HD2	45:DB:39:ASP:OD2	2.03	0.57
7:0F:32:ILE:HD11	44:DE:79:ARG:HB2	1.85	0.57
8:0G:55:ALA:HB3	44:JK:31:GLN:CA	2.26	0.57
5:1D:187:PHE:HB2	44:FE:221:ARG:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1H:327:ARG:NH1	45:GD:55:THR:O	2.37	0.57
19:1I:169:GLN:HE22	45:KH:18:ALA:HB3	1.67	0.57
26:1R:29:LYS:HB2	44:MC:47:ASP:OD2	2.04	0.57
26:1R:283:ARG:HH12	44:CC:45:GLY:HA2	1.67	0.57
28:2C:2:SER:HB3	45:LJ:356:ILE:HG23	1.86	0.57
21:2K:266:LEU:HD21	44:GK:372:MET:CE	2.33	0.57
26:2R:283:ARG:NH2	44:CG:46:ASP:H	2.02	0.57
13:2T:146:MET:CE	45:MJ:402:GLY:HA2	2.32	0.57
37:5A:126:ILE:CG1	45:ND:215:LEU:HD21	2.34	0.57
37:5D:115:ASP:N	44:NM:373:ARG:HA	2.19	0.57
38:5H:35:LEU:HD13	38:5H:36:PRO:CG	2.34	0.57
11:5Q:75:PHE:HB2	11:5Q:169:ASP:H	1.68	0.57
35:5R:105:GLU:HG2	45:BL:279:GLN:HE21	1.69	0.57
35:5R:302:LEU:HG	45:CJ:78:ALA:HB2	1.86	0.57
35:5R:336:CYS:N	35:5R:368:GLN:OE1	2.22	0.57
35:5R:391:PHE:CD2	45:EJ:215:LEU:HD22	2.39	0.57
11:6Q:90:GLU:HB3	11:6Q:104:ARG:HG3	1.85	0.57
35:6R:294:ASN:HD22	45:DN:217:LEU:CD1	1.93	0.57
35:6R:394:GLU:OE1	35:6R:394:GLU:N	2.36	0.57
35:7R:573:LEU:HD21	35:7R:580:LEU:HD12	1.84	0.57
45:AD:4:ILE:HG22	45:AD:132:GLY:H	1.70	0.57
44:AE:211:ASP:HB3	44:AE:215:ARG:HH12	1.69	0.57
44:AG:7:ILE:HD11	44:AG:122:ILE:CD1	2.34	0.57
44:AG:247:ALA:HB1	45:AJ:222:TYR:CD2	2.39	0.57
44:AK:332:ILE:HA	44:AK:335:ILE:HG22	1.84	0.57
45:AL:374:ILE:HD11	45:AL:422:TYR:CE1	2.39	0.57
44:AM:51:THR:HG21	44:AM:243:ARG:HD3	1.85	0.57
44:AM:270:SER:HB3	44:AM:378:ILE:CD1	2.34	0.57
44:BA:36:MET:SD	44:BA:37:PRO:HD2	2.44	0.57
44:BC:416:GLY:O	44:BC:419:SER:OG	2.10	0.57
44:BE:176:GLN:O	45:BF:331:LEU:HD13	2.03	0.57
44:BE:402:ARG:O	44:BE:405:VAL:HG22	2.03	0.57
45:BF:113:ILE:HD12	45:BF:150:LEU:HD13	1.85	0.57
44:BG:183:GLU:HG2	44:BG:184:PRO:CD	2.33	0.57
44:BG:268:MET:HB3	44:BG:380:ASN:OD1	2.04	0.57
45:BJ:398:TYR:O	45:BJ:403:MET:HB3	2.04	0.57
45:BJ:405:GLU:OE1	45:BJ:405:GLU:N	2.30	0.57
45:BL:182:PRO:HG3	45:BL:384:GLN:OE1	2.04	0.57
44:CA:5:ILE:HD12	44:CA:135:PHE:CE1	2.39	0.57
44:CA:8:HIS:HB3	44:CA:13:GLY:C	2.24	0.57
44:CA:185:TYR:HA	44:CA:395:PHE:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:4:ILE:HD11	45:CB:50:TYR:OH	2.04	0.57
45:CB:11:GLN:NE2	48:CB:501:GDP:O2A	2.36	0.57
44:CC:183:GLU:N	44:CC:184:PRO:HD2	2.18	0.57
44:CC:352:LYS:HA	45:CD:177:ASP:O	2.04	0.57
44:CE:174:SER:HB2	44:CE:177:VAL:O	2.04	0.57
44:CG:3:GLU:HG2	44:CG:64:ARG:NH1	2.19	0.57
45:CJ:87:PRO:HD2	45:DJ:281:TYR:CE1	2.39	0.57
45:CL:246:LEU:CD1	44:CM:224:TYR:HE2	2.17	0.57
45:CL:255:VAL:HG21	44:CM:100:ALA:O	2.03	0.57
44:CM:428:LEU:HG	44:CM:432:TYR:CE2	2.38	0.57
45:CN:130:LEU:HD21	45:CN:133:PHE:CZ	2.39	0.57
44:DA:50:ASN:HA	44:DA:53:PHE:O	2.04	0.57
44:DA:99:ALA:HB3	44:DA:145:THR:HB	1.84	0.57
45:DB:296:ALA:HA	45:DB:305:PRO:CG	2.34	0.57
44:DC:407:TRP:O	44:DC:411:GLU:HG2	2.03	0.57
45:DD:182:PRO:HG3	45:DD:384:GLN:NE2	2.19	0.57
44:DE:88:HIS:HB3	44:DE:91:GLN:NE2	2.18	0.57
44:DG:23:LEU:HD22	44:DG:233:GLN:OE1	2.03	0.57
44:DK:161:TYR:HB3	44:DK:164:LYS:CE	2.34	0.57
45:DL:370:ASN:OD1	45:DL:422:TYR:OH	2.21	0.57
44:DM:135:PHE:O	44:DM:136:LEU:HD23	2.04	0.57
44:DM:215:ARG:NH2	44:DM:300:ASN:OD1	2.37	0.57
44:DM:394:LYS:HA	44:DM:397:LEU:HD12	1.85	0.57
44:EA:140:SER:CB	46:EA:501:GTP:H1'	2.33	0.57
44:EA:320:ARG:HG3	44:EA:320:ARG:O	2.03	0.57
45:EB:131:GLN:O	45:EB:163:ILE:HG12	2.04	0.57
45:EB:314:SER:HB2	45:EB:350:LYS:HB3	1.84	0.57
44:EC:3:GLU:O	44:EC:133:GLN:N	2.30	0.57
45:ED:51:TYR:CE1	45:ED:61:PRO:HG3	2.38	0.57
45:ED:295:ASP:OD1	45:ED:296:ALA:N	2.37	0.57
45:EF:376:GLU:HA	45:EF:379:LYS:HZ2	1.69	0.57
44:EG:5:ILE:HD11	44:EG:126:ALA:CA	2.33	0.57
44:EG:130:THR:HG23	44:EG:131:GLY:N	2.19	0.57
45:EH:250:LEU:O	45:EH:254:ALA:N	2.30	0.57
44:EI:320:ARG:CB	44:EI:356:ASN:HB3	2.33	0.57
45:EJ:40:SER:OG	45:EJ:43:GLN:HG3	2.04	0.57
45:EL:65:LEU:HD22	45:EL:90:PHE:CE1	2.38	0.57
44:EM:4:VAL:HG12	44:EM:51:THR:O	2.04	0.57
44:EM:401:LYS:HG3	44:EM:401:LYS:O	2.04	0.57
45:EN:86:ARG:HB3	45:EN:89:ASN:ND2	2.18	0.57
44:FA:5:ILE:O	44:FA:136:LEU:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:12:CYS:SG	45:FB:138:SER:HB2	2.44	0.57
45:FB:146:GLY:O	45:FB:149:THR:HG22	2.04	0.57
44:FE:138:PHE:CE2	44:FE:169:PHE:HB2	2.39	0.57
44:FG:324:VAL:CG2	44:FG:326:LYS:HG2	2.34	0.57
44:FI:136:LEU:HD23	44:FI:167:LEU:HB2	1.85	0.57
45:FJ:52:ASN:OD1	45:FJ:53:GLU:N	2.37	0.57
45:FJ:230:SER:HA	45:FJ:233:MET:CE	2.34	0.57
44:FK:141:VAL:CG2	44:FK:187:SER:HA	2.33	0.57
44:FM:32:PRO:HB3	44:FM:83:TYR:CE1	2.39	0.57
44:FM:405:VAL:HG12	44:FM:409:VAL:CG2	2.34	0.57
45:FN:139:LEU:HD23	45:FN:185:ALA:CB	2.30	0.57
45:FN:139:LEU:HB3	45:FN:185:ALA:CB	2.34	0.57
45:FN:286:VAL:HG23	45:FN:287:PRO:HD3	1.85	0.57
44:GA:118:CYS:O	44:GA:122:ILE:HG12	2.04	0.57
44:GA:215:ARG:NH1	44:GA:216:ASN:OD1	2.34	0.57
45:GB:66:MET:HE3	45:GB:147:MET:HB3	1.86	0.57
45:GD:31:ASP:OD2	45:GD:37:HIS:ND1	2.37	0.57
45:GD:86:ARG:HB2	45:GD:281:TYR:CD2	2.39	0.57
45:GD:237:THR:HG22	45:GD:237:THR:O	2.04	0.57
44:GE:217:LEU:HA	44:GE:277:SER:CB	2.34	0.57
44:GE:240:ALA:HA	44:GE:243:ARG:NH1	2.19	0.57
45:GF:257:LEU:O	45:GF:259:PRO:HD3	2.04	0.57
44:GG:71:GLU:OE1	44:GG:73:THR:N	2.32	0.57
45:GH:67:ASP:OD1	45:GH:68:LEU:N	2.36	0.57
45:GJ:378:PHE:HA	45:GJ:381:VAL:HB	1.86	0.57
44:GK:36:MET:HB2	44:GK:37:PRO:HD2	1.86	0.57
44:GK:269:LEU:HD23	44:GK:269:LEU:H	1.69	0.57
45:GL:22:GLU:HG2	45:GL:81:PHE:HD2	1.69	0.57
45:GL:61:PRO:HD2	45:GL:84:LEU:O	2.03	0.57
45:GL:310:TYR:CE1	45:GL:371:SER:HB2	2.39	0.57
44:GM:115:VAL:O	44:GM:119:LEU:N	2.29	0.57
44:GM:150:GLY:HA2	44:GM:153:LEU:HB2	1.86	0.57
44:GM:291:ILE:HG13	44:GM:292:THR:N	2.17	0.57
44:HA:404:PHE:CE1	45:HB:259:PRO:HA	2.39	0.57
45:HB:304:ASP:O	45:HB:373:ALA:HB1	2.03	0.57
44:HC:13:GLY:HA2	44:HC:16:VAL:HG12	1.86	0.57
44:HC:261:PRO:HD3	44:HC:380:ASN:ND2	2.19	0.57
44:HE:137:VAL:HG22	44:HE:167:LEU:O	2.04	0.57
44:HE:265:ILE:CD1	44:HE:435:VAL:HG21	2.34	0.57
44:HE:296:PHE:CD2	44:HE:335:ILE:HG12	2.38	0.57
45:HF:216:LYS:HB2	45:HF:275:SER:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HF:257:LEU:HD21	45:HF:314:SER:HB3	1.86	0.57
45:HF:310:TYR:CE1	45:HF:371:SER:HB3	2.39	0.57
45:HJ:257:LEU:HB3	45:HJ:266:PHE:CE1	2.38	0.57
45:HL:113:ILE:CD1	45:HL:150:LEU:HD22	2.32	0.57
45:HN:105:HIS:HA	45:HN:147:MET:HE1	1.86	0.57
45:HN:182:PRO:O	45:HN:186:THR:HG22	2.04	0.57
44:IC:292:THR:HG21	44:IC:331:SER:OG	2.04	0.57
45:ID:145:SER:O	45:ID:149:THR:HG22	2.03	0.57
45:IF:241:ARG:HG3	45:IF:241:ARG:NH1	2.19	0.57
44:IG:89:PRO:HD3	45:JH:281:TYR:HD2	1.67	0.57
44:IG:121:ARG:HH2	44:IG:124:LYS:HZ3	1.51	0.57
45:IH:399:THR:HA	45:IH:403:MET:O	2.04	0.57
44:II:259:LEU:HD21	44:II:316:SER:CB	2.34	0.57
45:IJ:103:LYS:HD3	45:IJ:401:GLU:OE2	2.03	0.57
45:IN:69:GLU:OE1	45:IN:71:GLY:N	2.36	0.57
45:IN:406:MET:O	45:IN:410:GLU:HG3	2.04	0.57
45:JB:36:TYR:HE2	45:JB:44:LEU:HD11	1.68	0.57
45:JB:165:GLU:HA	45:JB:198:GLU:HB3	1.86	0.57
44:JC:312:TYR:CE2	44:JC:381:SER:HB3	2.39	0.57
45:JF:193:VAL:HG22	45:JF:265:PHE:HE1	1.69	0.57
45:JF:372:THR:O	45:JF:375:GLN:HG2	2.04	0.57
44:JG:258:ASN:ND2	44:JG:352:LYS:HG2	2.18	0.57
44:JG:328:VAL:HG11	44:JG:353:VAL:HG23	1.84	0.57
45:JH:3:GLU:HB2	45:JH:62:ARG:NH1	2.17	0.57
45:JH:66:MET:SD	45:JH:147:MET:CE	2.90	0.57
44:JI:221:ARG:HG3	45:JJ:325:GLU:OE2	2.04	0.57
44:JI:254:GLU:OE2	45:JL:98:GLY:HA2	2.04	0.57
44:JI:326:LYS:HG2	45:JL:208:TYR:CZ	2.39	0.57
44:JK:68:LEU:CD1	44:JK:153:LEU:HD11	2.32	0.57
44:JK:271:SER:HA	44:JK:302:MET:HG2	1.86	0.57
45:JL:287:PRO:O	45:JL:290:THR:HG22	2.04	0.57
45:JL:396:HIS:HA	45:JL:399:THR:CG2	2.33	0.57
44:JM:208:ALA:O	44:JM:212:ILE:HG13	2.04	0.57
45:JN:116:VAL:HA	45:JN:119:VAL:HG22	1.85	0.57
45:JN:186:THR:HA	45:JN:415:MET:HE1	1.84	0.57
44:KA:363:VAL:HG12	44:KA:364:PRO:HD2	1.85	0.57
45:KB:5:VAL:HG11	45:KB:123:GLU:CG	2.30	0.57
45:KB:136:THR:HB	45:KB:167:PHE:HB2	1.86	0.57
44:KC:22:GLU:HG3	44:KC:83:TYR:OH	2.04	0.57
45:KD:135:ILE:O	45:KD:166:THR:HA	2.03	0.57
44:KE:10:GLY:O	44:KE:14:ILE:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:51:THR:HG23	44:KE:52:PHE:CD1	2.36	0.57
44:KG:166:LYS:O	44:KG:199:ASP:HB2	2.04	0.57
44:KI:237:SER:CB	44:KI:320:ARG:HH12	2.16	0.57
45:KJ:380:ARG:O	45:KJ:383:GLU:HG2	2.03	0.57
45:KN:173:PRO:HD3	45:KN:381:VAL:HG22	1.86	0.57
45:LB:2:ARG:HB2	45:LB:131:GLN:HG3	1.86	0.57
45:LB:133:PHE:HB2	45:LB:164:MET:SD	2.43	0.57
45:LB:245:GLN:C	45:LB:246:LEU:HD12	2.23	0.57
44:LC:14:ILE:HD11	44:LC:69:ASP:HB2	1.86	0.57
44:LC:123:ARG:NE	44:LC:161:TYR:OH	2.37	0.57
44:LM:141:VAL:HG13	44:LM:190:SER:OG	2.04	0.57
44:MA:1:MET:O	44:MA:131:GLY:HA3	2.03	0.57
44:MA:155:GLU:HG2	44:MA:197:HIS:CD2	2.39	0.57
44:MA:155:GLU:HA	44:MA:197:HIS:CE1	2.39	0.57
44:ME:28:HIS:NE2	44:ME:243:ARG:HD2	2.19	0.57
44:ME:269:LEU:CD2	44:ME:433:GLU:HB2	2.34	0.57
44:MG:404:PHE:CE2	45:MH:345:ILE:HD12	2.39	0.57
44:MI:275:ILE:CD1	44:MI:368:LEU:HD11	2.34	0.57
45:ML:132:GLY:HA3	45:ML:163:ILE:HG22	1.85	0.57
44:MM:247:ALA:HB3	44:MM:355:ILE:HG21	1.86	0.57
45:MN:12:CYS:HB3	45:MN:138:SER:HB2	1.85	0.57
45:MN:150:LEU:O	45:MN:154:LYS:N	2.36	0.57
45:NB:146:GLY:O	45:NB:149:THR:HG22	2.04	0.57
44:NC:68:LEU:CD2	44:NC:118:CYS:HB2	2.28	0.57
44:NC:175:PRO:HD2	44:NC:207:GLU:OE1	2.04	0.57
44:NE:14:ILE:HD12	44:NE:75:ILE:HD11	1.86	0.57
44:NG:1:MET:HE2	45:NJ:70:PRO:HG2	1.86	0.57
44:NG:168:GLY:O	44:NG:201:ALA:HA	2.04	0.57
44:NG:170:THR:O	44:NG:171:ILE:HD13	2.03	0.57
44:NI:4:VAL:HG23	44:NI:134:GLY:O	2.03	0.57
44:NI:403:ALA:HA	45:NJ:260:PHE:CE1	2.39	0.57
45:NJ:135:ILE:HD12	45:NJ:164:MET:HE2	1.85	0.57
45:NJ:306:ARG:HG2	45:NJ:340:TYR:CE2	2.38	0.57
44:NM:282:TYR:O	44:NM:284:GLU:N	2.37	0.57
45:NN:355:ASP:O	45:NN:356:ILE:HD13	2.04	0.57
45:OB:14:ASN:OD1	45:OB:65:LEU:HD23	2.04	0.57
45:OB:287:PRO:HA	45:OB:290:THR:CG2	2.31	0.57
44:OC:210:TYR:HB3	45:OD:324:LYS:CE	2.34	0.57
44:OE:223:THR:OG1	44:OE:225:THR:HG23	2.04	0.57
45:OF:49:VAL:HG21	45:OF:240:LEU:CD2	2.30	0.57
45:OF:161:ASP:O	45:OF:162:ARG:HD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:294:PHE:HE2	45:OF:333:VAL:HG11	1.65	0.57
45:OH:54:ALA:HB3	45:OH:58:ARG:O	2.03	0.57
44:OK:210:TYR:CG	45:OL:324:LYS:HD3	2.39	0.57
45:OL:267:MET:HG3	45:OL:299:MET:HE2	1.86	0.57
44:OM:24:PHE:HZ	44:OM:235:ILE:HG22	1.68	0.57
44:PA:63:PRO:HB2	44:PA:87:PHE:CE1	2.38	0.57
44:PA:320:ARG:CA	44:PA:356:ASN:HB3	2.34	0.57
45:PB:185:ALA:O	45:PB:189:VAL:N	2.34	0.57
45:PB:293:MET:HG3	45:PB:294:PHE:N	2.19	0.57
45:PB:309:ARG:HA	45:PB:340:TYR:O	2.04	0.57
45:PD:133:PHE:HB2	45:PD:164:MET:SD	2.44	0.57
45:PD:135:ILE:HG13	45:PD:152:ILE:HD11	1.86	0.57
44:PE:195:LEU:HD11	44:PE:428:LEU:HD13	1.85	0.57
45:PH:263:LEU:HD23	45:PH:422:TYR:CE1	2.39	0.57
45:PN:403:MET:HE2	45:PN:407:GLU:HB2	1.85	0.57
44:QA:11:GLN:H	46:QA:501:GTP:PB	2.26	0.57
44:QA:68:LEU:CG	44:QA:93:ILE:HD13	2.33	0.57
45:QB:21:TRP:CH2	45:QB:61:PRO:HB3	2.39	0.57
45:QB:81:PHE:O	45:QB:84:LEU:HD13	2.04	0.57
45:QB:166:THR:OG1	45:QB:199:CYS:HA	2.04	0.57
45:QB:178:THR:N	45:QB:181:GLU:OE2	2.25	0.57
44:QC:161:TYR:HD2	44:QC:164:LYS:HE3	1.69	0.57
44:QC:183:GLU:HG2	44:QC:184:PRO:HD3	1.85	0.57
44:QE:141:VAL:HG22	44:QE:187:SER:CA	2.32	0.57
45:QF:207:LEU:HB3	45:QF:225:LEU:CD2	2.34	0.57
45:QH:83:GLN:HA	45:QH:83:GLN:OE1	2.04	0.57
45:QJ:105:HIS:CD2	45:QJ:150:LEU:HG	2.39	0.57
45:QJ:203:ASP:OD2	45:QJ:301:CYS:HA	2.04	0.57
44:QK:47:ASP:HB2	44:QK:49:PHE:CE1	2.38	0.57
45:QL:172:SER:HB3	45:QL:203:ASP:HB3	1.85	0.57
45:QL:253:LEU:O	45:QL:257:LEU:HD13	2.04	0.57
45:QL:385:PHE:HE2	45:QL:412:GLU:HB2	1.68	0.57
44:QM:244:PHE:CZ	44:QM:358:GLN:HG2	2.39	0.57
44:RA:296:PHE:CD2	44:RA:335:ILE:HD12	2.39	0.57
45:RB:119:VAL:O	45:RB:122:LYS:HB3	2.04	0.57
45:RB:269:GLY:O	45:RB:367:PHE:N	2.31	0.57
45:RD:2:ARG:HH12	45:RD:46:ARG:NH1	2.02	0.57
45:RD:86:ARG:HH21	45:RD:87:PRO:HD2	1.69	0.57
45:RD:360:GLY:O	45:RD:361:LEU:HD23	2.04	0.57
44:RE:214:ARG:CZ	44:RE:220:GLU:HA	2.33	0.57
44:RE:288:VAL:HA	44:RE:291:ILE:CG1	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:259:PRO:HA	44:RG:404:PHE:CE2	2.38	0.57
45:RF:286:VAL:HG21	44:RG:221:ARG:NH1	2.19	0.57
44:RG:13:GLY:HA2	44:RG:16:VAL:HG22	1.84	0.57
45:RH:60:VAL:HG23	45:RH:84:LEU:O	2.04	0.57
45:RH:102:ALA:HB2	45:RH:398:TYR:CD1	2.38	0.57
45:RH:260:PHE:HB3	45:RH:261:PRO:HD2	1.86	0.57
44:RI:98:ASP:OD1	44:RI:99:ALA:N	2.36	0.57
44:RI:155:GLU:HA	44:RI:197:HIS:CD2	2.39	0.57
44:RI:168:GLY:O	44:RI:202:VAL:N	2.37	0.57
45:RL:113:ILE:O	45:RL:117:LEU:N	2.29	0.57
45:RL:423:GLN:OE1	45:RL:423:GLN:N	2.24	0.57
44:RM:169:PHE:CE1	44:RM:202:VAL:HG21	2.39	0.57
44:RM:209:ILE:CG2	44:RM:227:LEU:HA	2.34	0.57
44:RM:320:ARG:NE	44:RM:360:PRO:HG3	2.19	0.57
44:SA:123:ARG:HH12	44:SA:126:ALA:CB	2.17	0.57
44:SA:291:ILE:HG13	44:SA:292:THR:N	2.19	0.57
45:SB:285:THR:H	45:SB:288:GLU:HB2	1.69	0.57
45:SD:262:ARG:C	45:SD:263:LEU:HD12	2.24	0.57
45:SD:288:GLU:O	45:SD:291:GLN:HG3	2.04	0.57
45:SD:420:SER:O	45:SD:423:GLN:HG3	2.04	0.57
45:SH:6:HIS:NE2	45:SH:8:GLN:HG3	2.18	0.57
45:SL:358:PRO:HG2	45:SL:361:LEU:HD12	1.85	0.57
44:SM:53:PHE:HD1	44:SM:61:HIS:HB2	1.69	0.57
44:SM:135:PHE:O	44:SM:166:LYS:HA	2.03	0.57
44:SM:346:TRP:CD1	45:SN:391:ARG:HG3	2.39	0.57
45:TB:87:PRO:HG3	45:UB:281:TYR:HD2	1.69	0.57
44:TC:170:THR:O	44:TC:204:LEU:HB2	2.04	0.57
45:TD:13:GLY:O	45:TD:16:ILE:HB	2.04	0.57
45:TD:245:GLN:O	44:TE:11:GLN:NE2	2.37	0.57
44:TE:274:PRO:HD3	44:TE:374:ALA:HA	1.86	0.57
45:TF:86:ARG:HD3	45:TF:89:ASN:OD1	2.04	0.57
45:TF:229:VAL:HG12	45:TF:233:MET:SD	2.44	0.57
44:TG:112:LYS:O	44:TG:115:VAL:HG12	2.04	0.57
45:TH:20:PHE:O	45:TH:24:ILE:N	2.33	0.57
44:TI:136:LEU:CD2	44:TI:167:LEU:HD13	2.34	0.57
44:TI:151:SER:HB3	44:TI:193:SER:OG	2.03	0.57
45:TJ:391:ARG:O	45:TJ:392:LYS:HB2	2.04	0.57
45:TL:198:GLU:OE2	45:TL:254:ALA:HB2	2.04	0.57
45:TL:215:LEU:HA	45:TL:275:SER:CA	2.34	0.57
45:TL:341:PHE:HD2	45:TL:348:ASN:HD21	1.52	0.57
45:TN:64:ILE:HG13	45:TN:89:ASN:ND2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:178:THR:HG22	45:TN:180:VAL:HG12	1.86	0.57
45:TN:291:GLN:HE22	45:TN:292:GLN:HB2	1.69	0.57
45:TN:315:ALA:O	45:TN:352:SER:N	2.36	0.57
45:UD:161:ASP:OD1	45:UD:162:ARG:N	2.36	0.57
44:UG:105:ARG:CA	44:UG:109:THR:HG22	2.30	0.57
45:UH:16:ILE:HA	45:UH:226:ASN:OD1	2.04	0.57
44:UI:5:ILE:HB	44:UI:135:PHE:CE1	2.39	0.57
44:UI:118:CYS:SG	44:UI:153:LEU:HD21	2.43	0.57
45:UJ:6:HIS:HB3	45:UJ:21:TRP:HZ2	1.69	0.57
45:UJ:119:VAL:O	45:UJ:122:LYS:HG3	2.04	0.57
44:UK:202:VAL:HA	44:UK:268:MET:O	2.04	0.57
44:UK:260:VAL:HG13	44:UK:265:ILE:O	2.03	0.57
44:UK:320:ARG:HG3	44:UK:360:PRO:HD3	1.86	0.57
45:UL:97:ALA:HA	45:UL:103:LYS:HE3	1.86	0.57
44:VA:408:TYR:HB3	44:VA:413:MET:CE	2.33	0.57
45:VB:50:TYR:HE2	45:VB:241:ARG:HD3	1.66	0.57
45:VD:51:TYR:OH	45:VD:61:PRO:HG3	2.03	0.57
45:VD:54:ALA:CB	45:WD:283:ALA:HB2	2.33	0.57
45:VH:2:ARG:NH2	45:VH:240:LEU:HG	2.19	0.57
44:VI:317:MET:CE	44:VI:377:MET:HB3	2.34	0.57
45:VJ:308:GLY:HA3	45:VJ:372:THR:OG1	2.02	0.57
45:VJ:323:THR:HG23	45:VJ:324:LYS:N	2.19	0.57
44:VK:3:GLU:HG2	44:VK:129:CYS:HB3	1.85	0.57
45:VL:22:GLU:HA	45:VL:81:PHE:CD2	2.39	0.57
45:VL:97:ALA:HB3	45:VL:143:THR:HB	1.85	0.57
45:VN:238:CYS:SG	45:VN:316:LEU:HD23	2.44	0.57
45:VN:268:ILE:HA	45:VN:368:VAL:HA	1.86	0.57
45:VN:272:PRO:HG3	45:VN:284:LEU:HD22	1.85	0.57
45:WD:238:CYS:HB2	45:WD:318:ARG:NE	2.19	0.57
44:WE:206:ASN:HB3	44:WE:210:TYR:CZ	2.39	0.57
44:WG:181:VAL:HG13	45:WH:256:ASN:HD21	1.68	0.57
44:WG:255:PHE:CG	44:WG:259:LEU:HD12	2.39	0.57
44:WI:84:ARG:HG3	44:WI:85:GLN:CD	2.24	0.57
44:WK:69:ASP:OD1	44:WK:71:GLU:N	2.24	0.57
45:WL:311:LEU:HD22	45:WL:342:VAL:HG11	1.85	0.57
1:6H:211:MET:CG	45:FD:227:HIS:HE2	2.16	0.57
2:0A:52:THR:HG21	35:7R:71:LYS:CB	2.34	0.57
5:0D:183:ALA:HB2	45:EB:53:GLU:CG	2.33	0.57
8:0G:144:TYR:O	44:KM:282:TYR:OH	2.18	0.57
10:0N:247:GLN:H	44:KK:46:ASP:HB3	1.66	0.57
4:1C:93:LYS:NZ	44:EM:26:LEU:HD13	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:261:MET:HG3	44:II:282:TYR:CE1	2.37	0.57
26:1R:8:LEU:HD11	45:MF:361:LEU:HG	1.86	0.57
29:2F:65:LEU:HD11	45:GF:94:GLN:CG	2.34	0.57
26:2R:394:TYR:CE2	45:EH:216:LYS:HD2	2.39	0.57
16:2X:49:ILE:CG1	44:MI:282:TYR:HB2	2.33	0.57
2:3A:39:TYR:OH	44:MM:18:ASN:ND2	2.37	0.57
31:3H:193:LEU:HD22	45:AH:320:ARG:HH11	1.58	0.57
37:5C:79:LEU:HD21	45:NJ:245:GLN:HE22	1.68	0.57
11:5Q:34:ILE:HG13	11:5Q:49:ILE:CD1	2.34	0.57
11:6Q:14:LEU:HB3	11:6Q:165:ILE:HB	1.86	0.57
11:6Q:155:GLN:O	11:6Q:156:ILE:HD13	2.04	0.57
35:6R:436:GLU:CG	45:FN:280:GLN:CG	2.80	0.57
35:7R:315:MET:HG3	35:7R:316:THR:H	1.67	0.57
44:AC:11:GLN:HG3	44:AC:74:VAL:CG2	2.33	0.57
45:AD:117:LEU:HA	45:AD:120:VAL:HG12	1.85	0.57
45:AD:383:GLU:O	45:AD:386:THR:HG22	2.04	0.57
44:AE:183:GLU:HG2	44:AE:184:PRO:HD3	1.86	0.57
44:AE:211:ASP:HB3	44:AE:215:ARG:NH1	2.19	0.57
45:AF:268:ILE:HG22	45:AF:368:VAL:HG22	1.84	0.57
45:AH:276:ARG:HA	45:AH:276:ARG:HH11	1.69	0.57
45:AJ:217:LEU:HD11	45:AJ:220:PRO:HG3	1.85	0.57
44:AK:362:VAL:HG21	44:AK:368:LEU:O	2.03	0.57
44:AM:64:ARG:NH1	44:AM:129:CYS:SG	2.77	0.57
44:AM:373:ARG:HG3	44:AM:373:ARG:NH1	2.19	0.57
45:AN:114:ASP:OD1	45:AN:115:SER:N	2.36	0.57
45:AN:415:MET:O	45:AN:419:VAL:HG23	2.04	0.57
44:BA:11:GLN:CG	44:BA:74:VAL:HG11	2.21	0.57
44:BA:107:HIS:CD2	44:BA:152:LEU:HB2	2.39	0.57
44:BA:242:LEU:HD11	44:BA:252:ILE:CG1	2.35	0.57
45:BD:152:ILE:O	45:BD:195:ASN:ND2	2.36	0.57
44:BE:183:GLU:N	44:BE:184:PRO:HD2	2.18	0.57
44:BE:291:ILE:HG13	44:BE:292:THR:N	2.19	0.57
44:BE:306:ASP:OD1	44:BE:308:ARG:HB2	2.04	0.57
44:BI:56:THR:HG22	44:BI:60:LYS:O	2.04	0.57
44:BI:276:ILE:HG23	44:BI:281:ALA:HB2	1.85	0.57
44:BI:408:TYR:O	44:BI:413:MET:HB3	2.04	0.57
44:BM:178:SER:O	45:BN:347:ASN:ND2	2.35	0.57
45:BN:288:GLU:O	45:BN:291:GLN:HG3	2.04	0.57
44:CA:71:GLU:OE2	44:CA:73:THR:OG1	2.17	0.57
44:CA:174:SER:OG	44:CA:207:GLU:HB2	2.03	0.57
45:CB:73:MET:SD	45:CB:90:PHE:HD1	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:372:THR:O	45:CF:375:GLN:HG2	2.04	0.57
44:CG:348:PRO:CB	45:CH:384:GLN:HG3	2.35	0.57
45:CH:178:THR:HB	45:CH:181:GLU:HG2	1.87	0.57
45:CJ:42:LEU:HG	45:CJ:45:GLU:OE2	2.04	0.57
45:CJ:167:PHE:CD2	45:CJ:233:MET:HG2	2.38	0.57
44:CK:206:ASN:OD1	44:CK:207:GLU:N	2.38	0.57
45:CL:97:ALA:HB2	45:CL:143:THR:HB	1.85	0.57
44:DA:183:GLU:HG2	44:DA:184:PRO:CD	2.35	0.57
44:DA:183:GLU:HA	44:DA:186:ASN:OD1	2.03	0.57
44:DA:349:THR:O	44:DA:349:THR:HG23	2.04	0.57
45:DB:50:TYR:CE2	45:DB:241:ARG:HD3	2.39	0.57
45:DB:101:TRP:CZ3	45:DB:187:LEU:HD22	2.39	0.57
45:DB:326:VAL:O	45:DB:330:MET:HE2	2.03	0.57
44:DC:154:LEU:CD2	44:DC:166:LYS:HD2	2.33	0.57
44:DC:276:ILE:HG23	44:DC:281:ALA:HB2	1.86	0.57
45:DD:293:MET:HE2	45:DD:367:PHE:CD1	2.39	0.57
45:DF:4:ILE:HG22	45:DF:131:GLN:HB3	1.86	0.57
44:DG:80:THR:HA	44:DG:84:ARG:NE	2.16	0.57
45:DH:31:ASP:OD2	45:DH:37:HIS:ND1	2.37	0.57
45:DH:87:PRO:HA	45:DH:90:PHE:HD2	1.69	0.57
44:DI:174:SER:CB	44:DI:207:GLU:HB2	2.33	0.57
44:DI:238:LEU:O	44:DI:238:LEU:HD23	2.04	0.57
44:DM:16:VAL:HG13	44:DM:231:ILE:CG2	2.34	0.57
44:DM:16:VAL:HG13	44:DM:231:ILE:HG21	1.85	0.57
45:DN:3:GLU:HG3	45:DN:127:CYS:HB2	1.85	0.57
45:DN:213:ARG:HH21	45:DN:297:LYS:HD2	1.69	0.57
44:EA:20:CYS:HA	44:EA:232:ALA:HB1	1.84	0.57
44:EA:302:MET:HA	44:EA:302:MET:CE	2.34	0.57
44:EC:25:CYS:CA	44:EC:30:ILE:HB	2.34	0.57
44:EC:50:ASN:HA	44:EC:53:PHE:O	2.03	0.57
44:EC:108:TYR:HE2	44:EC:413:MET:CE	2.16	0.57
44:EC:223:THR:HG23	44:EC:225:THR:H	1.70	0.57
45:ED:8:GLN:CD	45:ED:14:ASN:HA	2.24	0.57
45:ED:172:SER:HB2	45:ED:205:GLU:OE1	2.04	0.57
44:EE:272:TYR:CD1	44:EE:376:CYS:HB2	2.39	0.57
45:EF:234:SER:HA	45:EF:237:THR:OG1	2.04	0.57
45:EF:245:GLN:C	45:EF:246:LEU:HD12	2.24	0.57
45:EF:279:GLN:O	45:EF:279:GLN:HG2	2.04	0.57
44:EG:3:GLU:O	44:EG:132:LEU:HA	2.03	0.57
45:EH:378:PHE:HA	45:EH:381:VAL:HG22	1.85	0.57
45:EJ:261:PRO:HD3	44:EK:406:HIS:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:323:THR:HA	45:EJ:326:VAL:CG2	2.34	0.57
45:EL:18:ALA:HB2	45:EL:76:VAL:HG23	1.85	0.57
45:EL:329:GLN:O	45:EL:333:VAL:HG23	2.03	0.57
44:EM:22:GLU:HG2	44:EM:83:TYR:CE2	2.38	0.57
44:EM:405:VAL:CG1	44:EM:409:VAL:HG23	2.21	0.57
45:FB:221:THR:CG2	45:FB:224:ASP:H	2.16	0.57
45:FB:350:LYS:HE3	45:FB:352:SER:OG	2.03	0.57
45:FB:377:MET:HE2	45:FB:381:VAL:HG23	1.86	0.57
45:FD:22:GLU:HG2	45:FD:81:PHE:CG	2.39	0.57
45:FD:130:LEU:CB	45:FD:162:ARG:HD2	2.34	0.57
45:FD:325:GLU:CA	45:FD:328:GLU:HG2	2.30	0.57
45:FF:411:ALA:O	45:FF:414:ASN:N	2.36	0.57
44:FG:242:LEU:HD21	44:FG:251:ASP:CA	2.33	0.57
44:FG:422:ARG:NH1	44:FG:426:ALA:HB2	2.19	0.57
45:FH:139:LEU:HD12	45:FH:188:SER:HB2	1.85	0.57
45:FJ:310:TYR:CE1	45:FJ:371:SER:HB3	2.39	0.57
44:FK:79:ARG:O	44:FK:84:ARG:HG2	2.03	0.57
44:FK:140:SER:O	44:FK:147:SER:N	2.37	0.57
44:FK:205:ASP:OD2	44:FK:304:LYS:HG2	2.04	0.57
44:FK:252:ILE:HA	44:FK:255:PHE:CE2	2.39	0.57
45:FL:317:PHE:HB2	45:FL:352:SER:O	2.05	0.57
45:FN:103:LYS:HG2	45:FN:108:GLU:HG2	1.86	0.57
44:GA:115:VAL:HG22	44:GA:119:LEU:HD23	1.86	0.57
44:GC:268:MET:HB2	44:GC:379:SER:O	2.05	0.57
44:GE:230:LEU:O	44:GE:233:GLN:HB2	2.04	0.57
45:GF:217:LEU:O	45:GF:217:LEU:HD12	2.04	0.57
44:GM:150:GLY:O	44:GM:154:LEU:N	2.37	0.57
44:GM:320:ARG:HA	44:GM:356:ASN:HB3	1.84	0.57
45:GN:4:ILE:HD12	45:GN:134:GLN:HG2	1.86	0.57
44:HA:142:GLY:HA2	44:HA:186:ASN:OD1	2.04	0.57
45:HB:34:GLY:HA2	45:HB:58:ARG:NH1	2.19	0.57
44:HG:88:HIS:HB3	44:HG:91:GLN:HB2	1.85	0.57
45:HH:60:VAL:HG11	45:HH:86:ARG:NE	2.18	0.57
45:HJ:47:ILE:HG12	45:HJ:51:TYR:HB2	1.86	0.57
44:HK:372:MET:HG3	44:HK:373:ARG:HD2	1.86	0.57
45:HL:103:LYS:HA	45:HL:107:THR:CG2	2.34	0.57
45:HL:404:ASP:OD1	45:HL:407:GLU:HG3	2.04	0.57
44:IC:296:PHE:HE2	44:IC:335:ILE:HG21	1.69	0.57
45:ID:192:LEU:HG	45:ID:196:ALA:CB	2.34	0.57
44:IE:62:VAL:HG11	44:IE:88:HIS:CD2	2.39	0.57
45:IH:132:GLY:HA2	45:IH:163:ILE:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:304:ASP:O	45:IH:373:ALA:HB1	2.05	0.57
45:IH:330:MET:SD	45:IH:349:ILE:HG12	2.44	0.57
45:IJ:238:CYS:SG	45:IJ:318:ARG:HD3	2.44	0.57
44:IK:133:GLN:HB3	44:IK:252:ILE:HG21	1.85	0.57
44:IK:247:ALA:HB2	44:IK:357:TYR:OH	2.04	0.57
44:IM:14:ILE:HG21	44:IM:74:VAL:HG22	1.85	0.57
44:IM:344:VAL:HG21	44:IM:346:TRP:CE2	2.39	0.57
45:IN:19:LYS:CG	45:IN:227:HIS:HA	2.31	0.57
44:JA:112:LYS:O	44:JA:115:VAL:HG12	2.04	0.57
44:JA:177:VAL:HG22	45:JB:331:LEU:HD22	1.85	0.57
44:JA:335:ILE:HD13	44:JA:338:LYS:CE	2.35	0.57
45:JB:108:GLU:HA	45:JB:111:GLU:CG	2.34	0.57
45:JD:105:HIS:NE2	45:JD:150:LEU:HB2	2.19	0.57
45:JD:142:GLY:N	48:JD:501:GDP:O2B	2.33	0.57
44:JE:23:LEU:HD13	44:JE:363:VAL:CG1	2.34	0.57
44:JE:297:GLU:CD	44:JE:299:ALA:H	2.06	0.57
45:JJ:406:MET:HG3	45:NJ:306:ARG:NH2	2.19	0.57
44:JM:401:LYS:NZ	45:JN:430:ALA:HA	2.18	0.57
45:JN:14:ASN:HD21	45:JN:72:THR:CG2	2.15	0.57
44:KA:66:VAL:HG11	44:KA:122:ILE:HD11	1.86	0.57
45:KB:314:SER:HB2	45:KB:350:LYS:CE	2.33	0.57
44:KC:102:ASN:HB3	44:KC:105:ARG:HG3	1.86	0.57
45:KJ:258:ILE:HG13	45:KJ:258:ILE:O	2.05	0.57
44:KK:342:GLN:O	44:KK:342:GLN:HG2	2.04	0.57
45:KL:49:VAL:HG11	45:KL:241:ARG:HG2	1.85	0.57
44:KM:108:TYR:OH	44:KM:417:GLU:OE2	2.22	0.57
44:KM:320:ARG:CD	44:KM:360:PRO:HD3	2.34	0.57
45:KN:309:ARG:NH1	45:KN:339:SER:OG	2.37	0.57
44:LA:213:CYS:HA	44:LA:217:LEU:CD1	2.33	0.57
44:LA:403:ALA:O	44:LA:405:VAL:HG13	2.04	0.57
45:LB:102:ALA:HB1	45:LB:403:MET:HE1	1.84	0.57
45:LB:136:THR:CG2	45:LB:167:PHE:HB2	2.33	0.57
45:LB:180:VAL:HG23	45:LB:183:TYR:HD2	1.69	0.57
45:LB:377:MET:HG3	45:LB:380:ARG:NH2	2.18	0.57
44:LC:104:ALA:HB2	44:LC:413:MET:CE	2.32	0.57
45:LD:67:ASP:OD2	45:LD:72:THR:OG1	2.16	0.57
44:LG:401:LYS:HE2	45:LH:344:TRP:NE1	2.18	0.57
45:LH:110:ALA:O	45:LH:113:ILE:HG12	2.03	0.57
45:LJ:242:PHE:CD2	45:LJ:356:ILE:HB	2.35	0.57
45:LL:67:ASP:OD1	45:LL:68:LEU:N	2.36	0.57
44:LM:188:ILE:HD12	44:LM:425:LEU:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:66:MET:CE	45:MB:151:LEU:HD13	2.33	0.57
45:MB:178:THR:HB	45:MB:181:GLU:HG3	1.86	0.57
45:MD:316:LEU:HD23	45:MD:352:SER:HB2	1.84	0.57
45:MF:227:HIS:O	45:MF:230:SER:HB2	2.04	0.57
44:MG:223:THR:HG23	44:MG:225:THR:H	1.69	0.57
44:MM:318:MET:CE	44:MM:354:GLY:HA3	2.34	0.57
45:MN:186:THR:HG23	45:MN:415:MET:SD	2.45	0.57
44:NA:75:ILE:HG22	44:NA:79:ARG:CZ	2.33	0.57
44:NA:109:THR:HG21	44:NA:411:GLU:CG	2.34	0.57
44:NC:76:ASP:OD1	44:NC:77:GLU:N	2.37	0.57
44:NC:141:VAL:CG2	44:NC:190:SER:HB2	2.30	0.57
44:NC:195:LEU:O	44:NC:195:LEU:HD23	2.04	0.57
45:ND:279:GLN:HB2	45:ND:281:TYR:CE2	2.38	0.57
44:NE:141:VAL:HG11	44:NE:172:TYR:HD1	1.68	0.57
44:NE:224:TYR:HE1	45:NF:323:THR:HG1	1.53	0.57
45:NF:36:TYR:CD1	45:NF:44:LEU:HD21	2.39	0.57
45:NF:167:PHE:CE1	45:NF:200:MET:HE3	2.40	0.57
45:NH:4:ILE:CD1	45:NH:131:GLN:HB3	2.34	0.57
44:NI:174:SER:HB3	44:NI:207:GLU:HB2	1.85	0.57
45:NJ:184:ASN:OD1	45:NJ:185:ALA:N	2.37	0.57
45:NL:210:ILE:HD12	45:NL:300:MET:SD	2.44	0.57
45:NL:343:GLU:OE2	45:NL:429:THR:HA	2.04	0.57
44:OA:21:TRP:O	44:OA:25:CYS:N	2.22	0.57
44:OA:71:GLU:OE1	44:OA:73:THR:OG1	2.20	0.57
44:OA:320:ARG:O	44:OA:374:ALA:N	2.37	0.57
44:OA:323:VAL:CG2	44:OA:373:ARG:HG2	2.34	0.57
44:OA:406:HIS:CG	45:OB:261:PRO:HD3	2.39	0.57
44:OE:87:PHE:HB3	44:OE:91:GLN:HE21	1.69	0.57
44:OE:203:MET:HE2	44:OE:205:ASP:HB3	1.84	0.57
44:OG:109:THR:HG21	44:OG:411:GLU:OE2	2.04	0.57
44:OI:166:LYS:CE	44:OI:198:THR:HA	2.29	0.57
44:OI:262:TYR:CE1	45:OL:393:ALA:HA	2.39	0.57
45:OJ:130:LEU:HD21	45:OJ:133:PHE:HE1	1.65	0.57
45:OJ:183:TYR:HE2	45:OJ:394:PHE:HB2	1.69	0.57
44:OK:62:VAL:HG13	44:OK:62:VAL:O	2.02	0.57
45:OL:135:ILE:HD13	45:OL:152:ILE:CD1	2.33	0.57
45:OL:164:MET:SD	45:OL:166:THR:HG23	2.43	0.57
44:OM:223:THR:HG23	44:OM:225:THR:H	1.69	0.57
44:OM:329:ASN:HA	44:OM:332:ILE:HD12	1.86	0.57
44:PA:268:MET:HB3	44:PA:380:ASN:HB2	1.86	0.57
45:PB:187:LEU:O	45:PB:190:HIS:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:290:THR:HG21	45:PF:329:GLN:CD	2.25	0.57
44:PG:8:HIS:ND1	44:PG:67:PHE:HE1	2.02	0.57
44:PG:270:SER:HB3	44:PG:378:ILE:HD13	1.84	0.57
45:PH:165:GLU:OE2	45:PH:250:LEU:HD12	2.04	0.57
45:PH:187:LEU:HD21	45:PH:403:MET:HE1	1.85	0.57
45:PH:257:LEU:O	45:PH:258:ILE:HD13	2.04	0.57
44:PI:260:VAL:HG11	44:PI:268:MET:HE2	1.87	0.57
45:PJ:321:MET:CE	45:PJ:326:VAL:HG22	2.34	0.57
45:PJ:404:ASP:OD1	45:PJ:407:GLU:HG3	2.04	0.57
45:PL:268:ILE:HG22	45:PL:368:VAL:HA	1.86	0.57
44:PM:99:ALA:HA	44:PM:105:ARG:HD3	1.86	0.57
44:PM:203:MET:HG2	44:PM:268:MET:O	2.03	0.57
45:PN:257:LEU:HD11	45:PN:314:SER:CB	2.34	0.57
45:PN:342:VAL:HG12	45:PN:348:ASN:HD22	1.69	0.57
44:QA:34:GLY:CA	44:QA:86:LEU:HD21	2.35	0.57
44:QA:89:PRO:HD3	44:RA:280:LYS:HZ3	1.68	0.57
44:QA:236:SER:O	44:QA:240:ALA:N	2.37	0.57
44:QA:291:ILE:HG13	44:QA:292:THR:N	2.18	0.57
45:QD:315:ALA:O	45:QD:351:SER:HA	2.04	0.57
45:QD:404:ASP:OD1	45:QD:407:GLU:N	2.30	0.57
44:QE:276:ILE:HD13	44:QE:281:ALA:HA	1.86	0.57
45:QF:2:ARG:HB2	45:QF:131:GLN:OE1	2.04	0.57
45:QF:135:ILE:O	45:QF:167:PHE:N	2.27	0.57
45:QF:360:GLY:O	45:QF:361:LEU:HD23	2.04	0.57
44:QG:237:SER:HG	44:QG:320:ARG:HH11	1.44	0.57
44:QG:239:THR:HG23	44:QG:243:ARG:NH2	2.19	0.57
45:QH:150:LEU:HD23	45:QH:154:LYS:HG3	1.87	0.57
45:QH:312:THR:HG21	44:QI:181:VAL:HG21	1.86	0.57
44:QI:123:ARG:HG2	44:QI:127:ASP:OD2	2.05	0.57
45:QJ:146:GLY:O	45:QJ:150:LEU:N	2.31	0.57
44:QK:255:PHE:O	44:QK:259:LEU:HB2	2.04	0.57
45:QL:36:TYR:CE1	45:QL:44:LEU:HG	2.39	0.57
45:QL:322:SER:HB3	44:QM:221:ARG:NH1	2.20	0.57
45:QN:166:THR:OG1	45:QN:199:CYS:HA	2.03	0.57
45:QN:375:GLN:HA	45:QN:378:PHE:HD2	1.65	0.57
44:RA:135:PHE:HB2	44:RA:166:LYS:HG2	1.84	0.57
45:RD:200:MET:CE	45:RD:267:MET:HA	2.34	0.57
44:RE:261:PRO:HA	45:RF:394:PHE:CE1	2.39	0.57
45:RF:253:LEU:O	45:RF:257:LEU:HD13	2.04	0.57
44:RI:3:GLU:HG2	44:RI:64:ARG:CZ	2.34	0.57
45:RJ:7:ILE:HG21	45:RJ:135:ILE:CD1	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:258:ILE:HG13	45:RJ:266:PHE:HZ	1.69	0.57
45:RJ:390:ARG:O	45:RJ:390:ARG:HD3	2.03	0.57
44:RM:138:PHE:CE2	44:RM:169:PHE:HB2	2.39	0.57
44:RM:208:ALA:O	44:RM:212:ILE:HG12	2.03	0.57
45:RN:10:GLY:O	45:RN:14:ASN:N	2.22	0.57
45:RN:190:HIS:ND1	45:RN:411:ALA:HA	2.20	0.57
44:SA:53:PHE:HA	44:SA:62:VAL:O	2.04	0.57
44:SA:326:LYS:HG2	45:SB:220:PRO:CD	2.21	0.57
45:SB:20:PHE:HB2	45:SB:233:MET:SD	2.44	0.57
44:SC:320:ARG:HG3	44:SC:360:PRO:HD3	1.86	0.57
45:SD:319:GLY:HA2	45:SD:355:ASP:O	2.04	0.57
44:SE:52:PHE:O	44:SE:64:ARG:HG3	2.03	0.57
45:SF:178:THR:N	45:SF:181:GLU:OE2	2.37	0.57
45:SF:238:CYS:HB2	45:SF:318:ARG:CZ	2.34	0.57
45:SF:251:ARG:O	45:SF:255:VAL:N	2.32	0.57
45:SH:8:GLN:OE1	45:SH:17:GLY:HA3	2.03	0.57
44:SI:320:ARG:CG	44:SI:374:ALA:HB3	2.30	0.57
45:SJ:257:LEU:HD13	45:SJ:266:PHE:HE2	1.66	0.57
45:SN:183:TYR:OH	45:SN:388:MET:HB3	2.04	0.57
44:TA:31:GLN:NE2	44:TA:37:PRO:HB3	2.19	0.57
44:TC:11:GLN:HB3	46:TC:501:GTP:O3A	2.03	0.57
44:TC:187:SER:HA	44:TC:190:SER:OG	2.04	0.57
44:TC:225:THR:O	44:TC:228:ASN:N	2.37	0.57
45:TD:204:ASN:O	45:TD:208:TYR:N	2.30	0.57
45:TD:235:GLY:HA2	45:TD:238:CYS:HB3	1.87	0.57
45:TD:285:THR:OG1	45:TD:288:GLU:HG2	2.04	0.57
44:TE:89:PRO:HG3	44:UE:280:LYS:HB3	1.85	0.57
44:TE:99:ALA:HB1	44:TE:105:ARG:HB2	1.84	0.57
45:TF:42:LEU:HB3	45:TF:242:PHE:CE1	2.39	0.57
45:TF:310:TYR:CE1	45:TF:371:SER:HB2	2.38	0.57
45:TJ:183:TYR:HE2	45:TJ:394:PHE:CB	2.16	0.57
45:TL:255:VAL:HG21	44:TM:101:ASN:N	2.18	0.57
45:TL:256:ASN:OD1	45:TL:350:LYS:NZ	2.37	0.57
45:TN:180:VAL:HG22	45:TN:183:TYR:HB2	1.86	0.57
44:UA:121:ARG:CZ	44:UA:124:LYS:HD2	2.34	0.57
44:UA:264:ARG:HH12	44:UA:428:LEU:HD13	1.69	0.57
45:UB:16:ILE:HD12	45:UB:229:VAL:CB	2.33	0.57
45:UB:68:LEU:HG	45:UB:96:GLY:HA2	1.86	0.57
45:UB:134:GLN:HA	45:UB:165:GLU:H	1.69	0.57
45:UF:306:ARG:HG3	45:UF:307:HIS:CD2	2.39	0.57
44:UG:352:LYS:HA	45:UH:178:THR:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:376:GLU:HG2	45:UH:380:ARG:HH21	1.68	0.57
44:UI:103:PHE:HB3	44:UI:408:TYR:HE2	1.69	0.57
45:UJ:342:VAL:HG22	45:UJ:344:TRP:CD1	2.39	0.57
44:UM:3:GLU:OE2	44:UM:130:THR:N	2.29	0.57
44:UM:5:ILE:HG12	44:UM:64:ARG:HD3	1.86	0.57
45:UN:89:ASN:OD1	45:UN:119:VAL:HG21	2.04	0.57
45:UN:395:LEU:HG	45:UN:399:THR:CG2	2.34	0.57
44:VA:210:TYR:CD1	44:VA:227:LEU:HD21	2.39	0.57
44:VA:316:SER:N	44:VA:378:ILE:O	2.33	0.57
45:VB:163:ILE:HA	45:VB:197:ASP:OD2	2.04	0.57
45:VB:304:ASP:OD2	45:VB:306:ARG:HG3	2.04	0.57
44:VE:291:ILE:HG13	44:VE:292:THR:N	2.19	0.57
44:VG:271:SER:OG	44:VG:301:MET:HA	2.05	0.57
45:VH:134:GLN:HA	45:VH:165:GLU:O	2.03	0.57
44:VI:121:ARG:HD3	44:VI:125:LEU:HD23	1.85	0.57
44:VK:260:VAL:H	45:VN:397:TRP:HH2	1.51	0.57
44:VK:282:TYR:OH	44:VK:371:VAL:HA	2.04	0.57
45:VL:167:PHE:CE1	45:VL:233:MET:HE1	2.39	0.57
45:VL:238:CYS:SG	45:VL:316:LEU:HD23	2.44	0.57
44:VM:8:HIS:CD2	44:VM:17:GLY:HA3	2.39	0.57
45:VN:230:SER:O	45:VN:234:SER:N	2.26	0.57
45:WB:240:LEU:HD12	45:WB:249:ASP:CB	2.34	0.57
44:WC:5:ILE:HG13	44:WC:135:PHE:CB	2.33	0.57
44:WC:38:SER:HA	44:WC:42:ILE:CD1	2.33	0.57
44:WC:428:LEU:HD21	44:WC:432:TYR:CE2	2.40	0.57
44:WE:254:GLU:HG2	45:WH:98:GLY:HA2	1.85	0.57
45:WF:7:ILE:HG12	45:WF:64:ILE:HB	1.87	0.57
45:WH:130:LEU:HD21	45:WH:133:PHE:CZ	2.40	0.57
45:WH:286:VAL:O	45:WH:289:LEU:N	2.37	0.57
44:WI:205:ASP:OD2	44:WI:304:LYS:N	2.18	0.57
45:WJ:178:THR:HG23	45:WJ:181:GLU:N	2.18	0.57
44:WK:432:TYR:CA	44:WK:435:VAL:HG12	2.33	0.57
44:WM:3:GLU:C	44:WM:51:THR:HG23	2.24	0.57
44:WM:296:PHE:CD2	44:WM:335:ILE:HD12	2.40	0.57
3:0B:89:PRO:HG3	44:JG:82:THR:HB	1.86	0.57
7:0F:80:TYR:HE1	44:EE:18:ASN:ND2	2.00	0.57
12:0S:111:LYS:NZ	45:MB:157:GLU:OE2	2.31	0.57
13:0T:146:MET:CE	45:MB:402:GLY:HA2	2.33	0.57
13:0T:147:PHE:CD1	45:MB:106:TYR:HB3	2.38	0.57
2:1A:37:THR:HG21	45:MF:320:ARG:CD	2.33	0.57
22:2L:491:GLN:CA	35:6R:215:LEU:HD12	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2V:122:LYS:HG2	45:LH:390:ARG:NH2	2.16	0.57
27:2W:216:GLU:OE2	44:LM:279:GLU:HG2	2.03	0.57
27:2W:245:LEU:HD12	45:LN:276:ARG:CZ	2.35	0.57
2:3A:138:TRP:CZ3	44:AM:81:GLY:HA2	2.39	0.57
32:3I:263:PHE:H	45:GJ:337:ASN:ND2	1.96	0.57
26:3R:112:GLU:HG2	45:BN:279:GLN:HE21	1.67	0.57
38:5E:150:ILE:HD13	45:ND:56:GLY:O	2.04	0.57
38:5E:173:LYS:CE	45:KD:262:ARG:HH12	2.13	0.57
38:5H:27:ARG:HH22	45:OL:320:ARG:HH12	1.51	0.57
39:5I:158:LEU:HD13	44:JC:426:ALA:HB3	1.86	0.57
39:5J:109:TYR:O	39:5J:112:PRO:HD2	2.04	0.57
39:5K:22:TRP:HE1	45:NL:343:GLU:CB	2.18	0.57
35:5R:66:THR:HG22	45:MJ:39:ASP:O	2.04	0.57
35:5R:285:THR:CG2	35:5R:309:LEU:HB2	2.33	0.57
36:5S:180:VAL:HG13	36:5S:181:PRO:HD3	1.85	0.57
41:6G:174:GLN:HB3	44:VE:337:THR:HG21	1.86	0.57
41:6G:241:LYS:HD3	45:VD:336:LYS:CG	2.34	0.57
35:7R:95:PHE:HB3	35:7R:180:ILE:CG2	2.34	0.57
35:7R:417:TYR:CE1	44:EA:370:LYS:HD2	2.38	0.57
45:AB:7:ILE:HG21	45:AB:66:MET:HE3	1.86	0.57
45:AB:49:VAL:HG21	45:AB:240:LEU:HD21	1.86	0.57
45:AD:269:GLY:HA2	45:AD:300:MET:CE	2.34	0.57
45:AF:17:GLY:HA2	45:AF:20:PHE:HB3	1.86	0.57
45:AH:22:GLU:HG2	45:AH:81:PHE:CD2	2.40	0.57
45:AH:214:THR:O	45:AH:216:LYS:HG3	2.05	0.57
44:AI:24:PHE:HE1	44:AI:236:SER:HB2	1.69	0.57
44:AI:60:LYS:NZ	44:AI:85:GLN:O	2.37	0.57
44:AM:332:ILE:HD12	44:AM:351:PHE:HD2	1.66	0.57
44:AM:434:GLU:O	44:AM:437:ILE:HG12	2.03	0.57
45:AN:86:ARG:NH1	45:BN:278:SER:HA	2.18	0.57
44:BA:101:ASN:HD21	45:BB:252:LYS:HD2	0.62	0.57
44:BA:262:TYR:OH	45:BD:391:ARG:HB3	2.04	0.57
45:BB:372:THR:HA	45:BB:422:TYR:HE2	1.69	0.57
44:BC:171:ILE:HG23	44:BC:204:LEU:O	2.04	0.57
45:BD:107:THR:HG23	45:BD:108:GLU:N	2.20	0.57
45:BD:152:ILE:HG22	45:BD:195:ASN:ND2	2.19	0.57
45:BF:105:HIS:NE2	45:BF:150:LEU:HB3	2.18	0.57
45:BF:302:ALA:HB3	45:BF:377:MET:CE	2.34	0.57
44:BK:10:GLY:O	44:BK:14:ILE:HG12	2.04	0.57
44:BK:103:PHE:CE1	44:BK:148:GLY:HA2	2.39	0.57
44:BK:175:PRO:CB	44:BK:390:ARG:HH12	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:174:LYS:CD	45:BL:175:VAL:HG13	2.33	0.57
44:CA:91:GLN:HG2	44:CA:121:ARG:CZ	2.34	0.57
44:CA:155:GLU:HA	44:CA:197:HIS:CE1	2.39	0.57
44:CA:325:PRO:HG3	45:CB:222:TYR:CE1	2.39	0.57
45:CB:67:ASP:HB3	45:CB:92:PHE:HB3	1.85	0.57
45:CB:178:THR:HB	45:CB:181:GLU:CG	2.33	0.57
45:CB:286:VAL:HB	45:CB:325:GLU:CG	2.32	0.57
45:CD:1:MET:CE	44:CE:96:LYS:HA	2.34	0.57
44:CE:265:ILE:HG12	44:CE:432:TYR:CE1	2.40	0.57
44:CE:271:SER:HB2	44:CE:377:MET:HG2	1.84	0.57
44:CI:6:SER:OG	44:CI:65:ALA:HA	2.04	0.57
45:CJ:198:GLU:OE2	45:CJ:254:ALA:HB2	2.04	0.57
44:CK:191:THR:HB	44:CK:425:LEU:HD21	1.86	0.57
45:CL:370:ASN:OD1	45:CL:422:TYR:OH	2.23	0.57
44:CM:226:ASN:ND2	44:CM:367:ASP:OD2	2.26	0.57
44:CM:271:SER:HB2	44:CM:377:MET:SD	2.44	0.57
45:CN:269:GLY:HA2	45:CN:300:MET:HE1	1.85	0.57
45:DD:116:VAL:O	45:DD:119:VAL:HG22	2.04	0.57
45:DF:134:GLN:O	45:DF:135:ILE:HD13	2.05	0.57
45:DF:213:ARG:O	45:DF:213:ARG:HD3	2.05	0.57
44:DI:71:GLU:OE2	44:DI:73:THR:OG1	2.14	0.57
45:DJ:134:GLN:O	45:DJ:134:GLN:HG3	2.04	0.57
45:DJ:200:MET:HA	45:DJ:266:PHE:O	2.05	0.57
45:DJ:217:LEU:HD11	45:DJ:220:PRO:HG3	1.85	0.57
45:DJ:234:SER:O	45:DJ:238:CYS:N	2.36	0.57
45:DL:31:ASP:HB3	45:DL:32:PRO:CD	2.34	0.57
44:DM:24:PHE:HA	44:DM:27:GLU:OE1	2.04	0.57
44:DM:203:MET:HA	44:DM:203:MET:CE	2.34	0.57
44:DM:275:ILE:CG2	44:DM:368:LEU:HD21	2.33	0.57
44:EC:13:GLY:O	44:EC:16:VAL:HG12	2.04	0.57
44:EC:322:ASP:OD2	44:EC:372:MET:HG3	2.04	0.57
45:ED:25:SER:HA	45:ED:30:ILE:HD11	1.85	0.57
45:ED:253:LEU:O	45:ED:257:LEU:N	2.37	0.57
45:ED:389:PHE:O	45:ED:392:LYS:HD2	2.04	0.57
44:EE:89:PRO:HG2	44:FC:280:LYS:HG3	1.87	0.57
44:EE:363:VAL:CG1	44:EE:366:GLY:HA3	2.35	0.57
45:EF:206:ALA:O	45:EF:210:ILE:HD12	2.04	0.57
45:EF:273:LEU:HB2	45:EF:292:GLN:NE2	2.19	0.57
45:EF:322:SER:HB3	44:EG:221:ARG:HG3	1.86	0.57
45:EF:325:GLU:HA	45:EF:328:GLU:CG	2.29	0.57
44:EG:31:GLN:NE2	44:EG:37:PRO:HB3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:287:SER:O	44:EG:290:GLU:HG2	2.04	0.57
45:EH:20:PHE:HA	45:EH:23:VAL:HG22	1.86	0.57
45:EH:133:PHE:O	45:EH:165:GLU:N	2.33	0.57
45:EH:141:GLY:O	45:EH:145:SER:N	2.35	0.57
44:EK:27:GLU:HB2	44:EK:361:THR:HG21	1.86	0.57
45:EL:148:GLY:O	45:EL:152:ILE:HG12	2.03	0.57
44:EM:22:GLU:HA	44:EM:25:CYS:HB2	1.86	0.57
44:FC:176:GLN:HB3	45:FD:331:LEU:HD11	1.86	0.57
45:FD:308:GLY:HA3	45:FD:372:THR:HG23	1.85	0.57
44:FE:182:VAL:C	44:FE:184:PRO:HD2	2.23	0.57
45:FF:97:ALA:HB3	45:FF:143:THR:HB	1.86	0.57
44:FG:332:ILE:HD11	44:FG:351:PHE:CE2	2.39	0.57
45:FH:178:THR:OG1	45:FH:181:GLU:HG3	2.04	0.57
45:FJ:180:VAL:HG12	45:FJ:180:VAL:O	2.04	0.57
44:FK:115:VAL:HG21	44:FK:156:ARG:HE	1.69	0.57
44:FK:140:SER:OG	44:FK:146:GLY:HA3	2.04	0.57
45:FN:86:ARG:NE	45:FN:87:PRO:HD2	2.13	0.57
45:FN:207:LEU:O	45:FN:210:ILE:HB	2.04	0.57
45:GB:42:LEU:HA	45:GB:45:GLU:OE2	2.04	0.57
45:GB:268:ILE:CD1	45:GB:368:VAL:HG22	2.34	0.57
45:GB:329:GLN:NE2	45:GB:333:VAL:HG23	2.18	0.57
45:GD:68:LEU:HB2	45:GD:147:MET:HE2	1.85	0.57
45:GD:268:ILE:HG13	45:GD:300:MET:HE1	1.85	0.57
45:GF:49:VAL:CG2	45:GF:241:ARG:HG2	2.32	0.57
44:GG:73:THR:HA	45:GH:46:ARG:NH2	2.19	0.57
44:GG:175:PRO:HB3	44:GG:390:ARG:CD	2.34	0.57
45:GH:66:MET:CE	45:GH:151:LEU:HD13	2.34	0.57
45:GH:163:ILE:HG21	45:GH:251:ARG:HD3	1.85	0.57
44:GI:175:PRO:HA	44:GI:390:ARG:HH12	1.70	0.57
44:GI:296:PHE:CD2	44:GI:341:ILE:HD13	2.39	0.57
45:GJ:60:VAL:HB	45:GJ:86:ARG:NH2	2.19	0.57
44:GK:22:GLU:HG3	44:GK:83:TYR:CE2	2.39	0.57
44:GK:439:THR:CG2	45:GN:391:ARG:HD3	2.34	0.57
44:GM:252:ILE:HG23	44:GM:255:PHE:CE2	2.40	0.57
44:HA:70:LEU:HD12	44:HA:145:THR:OG1	2.04	0.57
44:HA:261:PRO:HA	45:HD:394:PHE:CD1	2.39	0.57
44:HC:121:ARG:O	44:HC:125:LEU:HG	2.03	0.57
44:HC:288:VAL:HA	44:HC:291:ILE:HG12	1.85	0.57
44:HC:318:MET:SD	44:HC:354:GLY:HA3	2.44	0.57
44:HC:324:VAL:HG13	44:HC:326:LYS:HG3	1.84	0.57
45:HD:405:GLU:OE1	45:HD:405:GLU:N	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HE:138:PHE:CD1	44:HE:169:PHE:HB2	2.39	0.57
45:HF:143:THR:N	48:HF:502:GDP:O2B	2.36	0.57
45:HH:3:GLU:HG3	45:HH:127:CYS:HB2	1.86	0.57
44:HI:239:THR:HG23	44:HI:243:ARG:HE	1.68	0.57
45:HN:268:ILE:HG22	45:HN:368:VAL:CG2	2.28	0.57
45:HN:285:THR:O	45:HN:287:PRO:HD2	2.04	0.57
44:IA:260:VAL:HG13	44:IA:265:ILE:O	2.05	0.57
44:IA:287:SER:O	44:IA:291:ILE:HG23	2.04	0.57
44:IA:317:MET:O	44:IA:318:MET:HE2	2.04	0.57
45:IB:206:ALA:HB2	45:IB:302:ALA:N	2.20	0.57
45:IB:337:ASN:HB3	45:IB:340:TYR:HB2	1.84	0.57
44:IC:60:LYS:HD3	45:JD:281:TYR:CE1	2.38	0.57
44:IC:73:THR:OG1	45:ID:247:ASN:ND2	2.37	0.57
44:IC:272:TYR:CD2	44:IC:275:ILE:HD11	2.38	0.57
45:ID:193:VAL:HA	45:ID:264:HIS:HE1	1.69	0.57
44:IE:188:ILE:CD1	44:IE:425:LEU:HG	2.34	0.57
44:IE:210:TYR:CD1	45:IF:324:LYS:HD2	2.39	0.57
45:IF:203:ASP:OD2	45:IF:302:ALA:N	2.36	0.57
44:IG:141:VAL:CG1	44:IG:172:TYR:HA	2.34	0.57
45:IH:320:ARG:CZ	45:IH:320:ARG:HB3	2.34	0.57
44:IK:48:ALA:HB1	44:IK:243:ARG:O	2.04	0.57
44:IK:395:PHE:HE2	44:IK:422:ARG:HB2	1.70	0.57
45:IL:1:MET:N	45:IL:48:ASN:HD21	2.01	0.57
45:IL:7:ILE:HB	45:IL:135:ILE:CD1	2.34	0.57
45:IL:186:THR:HG23	45:IL:187:LEU:HD22	1.86	0.57
44:IM:5:ILE:HD13	44:IM:125:LEU:CB	2.30	0.57
44:IM:207:GLU:HA	44:IM:210:TYR:CD2	2.34	0.57
44:IM:230:LEU:CD1	44:IM:368:LEU:HD11	2.35	0.57
44:JA:111:GLY:HA2	44:JA:149:LEU:HD21	1.84	0.57
44:JA:358:GLN:OE1	44:JA:358:GLN:HA	2.04	0.57
45:JB:182:PRO:HG2	45:JB:388:MET:CE	2.34	0.57
44:JC:62:VAL:HG12	44:KC:283:HIS:HD2	1.69	0.57
44:JC:98:ASP:OD1	44:JC:99:ALA:N	2.37	0.57
44:JC:175:PRO:HG3	44:JC:390:ARG:NH1	2.20	0.57
45:JD:4:ILE:O	45:JD:62:ARG:HD2	2.04	0.57
45:JD:143:THR:HG22	48:JD:501:GDP:O3B	2.04	0.57
45:JD:240:LEU:O	45:JD:240:LEU:HD23	2.03	0.57
44:JE:231:ILE:O	44:JE:235:ILE:HG12	2.04	0.57
44:JE:288:VAL:HG11	44:JE:327:ASP:HB3	1.86	0.57
45:JH:21:TRP:CH2	45:JH:61:PRO:HB3	2.40	0.57
45:JJ:121:ARG:NH1	45:JJ:158:GLU:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:260:PHE:HB3	45:JJ:261:PRO:HD2	1.85	0.57
44:JK:254:GLU:CG	45:JN:98:GLY:HA2	2.34	0.57
44:JK:269:LEU:HD23	44:JK:269:LEU:H	1.69	0.57
45:KB:61:PRO:HG2	45:KB:85:PHE:HA	1.86	0.57
45:KB:286:VAL:HG11	45:KB:325:GLU:CG	2.33	0.57
45:KD:193:VAL:HA	45:KD:264:HIS:CE1	2.39	0.57
44:KE:213:CYS:SG	44:KE:217:LEU:HD12	2.44	0.57
45:KF:100:ASN:HD22	45:KF:103:LYS:HG3	1.69	0.57
45:KF:238:CYS:SG	45:KF:239:CYS:N	2.78	0.57
44:KG:141:VAL:HG21	44:KG:172:TYR:CE1	2.39	0.57
44:KG:201:ALA:HB3	44:KG:267:PHE:CD1	2.39	0.57
44:KG:225:THR:HG22	44:KG:229:ARG:HH21	1.69	0.57
44:KG:260:VAL:O	44:KG:260:VAL:HG23	2.03	0.57
44:KG:296:PHE:CE2	44:KG:335:ILE:HG21	2.39	0.57
44:KI:238:LEU:HD12	44:KI:378:ILE:CD1	2.34	0.57
45:KJ:342:VAL:HG13	45:KJ:345:ILE:HG22	1.87	0.57
45:KL:2:ARG:O	45:KL:2:ARG:HG2	2.04	0.57
45:KL:116:VAL:O	45:KL:119:VAL:HG22	2.04	0.57
45:KL:286:VAL:HB	45:KL:325:GLU:CD	2.25	0.57
45:KN:105:HIS:HD2	45:KN:150:LEU:HD22	1.68	0.57
44:LA:114:ILE:O	44:LA:117:LEU:N	2.34	0.57
44:LA:261:PRO:HA	45:LD:394:PHE:CE1	2.38	0.57
45:LB:170:VAL:HG23	45:LB:203:ASP:OD1	2.03	0.57
44:LE:237:SER:HA	44:LE:320:ARG:NH1	2.19	0.57
45:LF:135:ILE:CG1	45:LF:164:MET:HE3	2.34	0.57
44:LG:168:GLY:O	44:LG:201:ALA:HA	2.04	0.57
44:LI:262:TYR:CE1	45:LL:393:ALA:HA	2.40	0.57
44:LI:326:LYS:HE3	45:LL:212:PHE:HE2	1.68	0.57
45:LJ:241:ARG:C	45:LJ:242:PHE:HD1	2.08	0.57
45:LL:236:VAL:HG13	45:LL:237:THR:HG23	1.85	0.57
44:MA:386:GLU:O	44:MA:390:ARG:HG2	2.04	0.57
45:MB:41:ASP:O	45:MB:44:LEU:N	2.33	0.57
44:MC:77:GLU:OE2	45:MD:243:PRO:HG3	2.05	0.57
44:MC:315:CYS:O	44:MC:351:PHE:HA	2.04	0.57
44:ME:192:HIS:HB3	44:ME:393:HIS:NE2	2.19	0.57
45:MF:42:LEU:HD12	45:MF:243:PRO:CD	2.34	0.57
45:MF:207:LEU:HD23	45:MF:225:LEU:HB3	1.86	0.57
44:MG:207:GLU:O	44:MG:210:TYR:HB2	2.04	0.57
44:MG:260:VAL:HG23	44:MG:260:VAL:O	2.04	0.57
44:MG:388:PHE:HD2	44:MG:428:LEU:HD21	1.69	0.57
45:MN:110:ALA:HA	45:MN:113:ILE:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:428:LEU:HD11	44:NA:432:TYR:CZ	2.39	0.57
44:NC:71:GLU:HG3	44:NC:98:ASP:CB	2.27	0.57
44:NC:383:ALA:O	44:NC:386:GLU:HG2	2.05	0.57
45:ND:40:SER:OG	45:ND:43:GLN:HG3	2.04	0.57
45:ND:221:THR:O	45:ND:224:ASP:N	2.33	0.57
45:ND:324:LYS:HG3	45:ND:325:GLU:N	2.18	0.57
44:NE:233:GLN:O	44:NE:236:SER:OG	2.14	0.57
44:NG:298:PRO:HG3	44:NG:308:ARG:NE	2.19	0.57
45:NH:294:PHE:CZ	45:NH:333:VAL:HG11	2.39	0.57
44:NI:63:PRO:HG2	44:NI:86:LEU:HG	1.85	0.57
44:NI:84:ARG:NE	44:NI:85:GLN:HE22	2.01	0.57
45:NJ:202:ILE:HD11	45:NJ:268:ILE:HG12	1.85	0.57
44:NM:213:CYS:O	44:NM:217:LEU:HB3	2.04	0.57
45:NN:7:ILE:HD11	45:NN:64:ILE:HD13	1.87	0.57
45:OB:7:ILE:HB	45:OB:135:ILE:CD1	2.34	0.57
44:OC:9:VAL:HG13	44:OC:139:ASN:HB3	1.86	0.57
44:OG:205:ASP:CG	44:OG:304:LYS:HZ3	2.07	0.57
45:OH:19:LYS:O	45:OH:23:VAL:HG12	2.03	0.57
45:OH:133:PHE:O	45:OH:164:MET:HE3	2.04	0.57
44:OI:276:ILE:HD11	44:OI:286:LEU:HD21	1.86	0.57
45:OJ:318:ARG:CZ	45:OJ:358:PRO:HG3	2.34	0.57
45:OL:257:LEU:HD12	45:OL:312:THR:CG2	2.34	0.57
44:OM:89:PRO:HD3	44:PM:280:LYS:NZ	2.19	0.57
44:PA:64:ARG:HH22	44:PA:132:LEU:HD12	1.69	0.57
44:PA:69:ASP:OD1	44:PA:71:GLU:N	2.37	0.57
45:PB:133:PHE:HB2	45:PB:164:MET:HE3	1.86	0.57
45:PB:318:ARG:NH1	45:PB:358:PRO:HG3	2.19	0.57
44:PC:1:MET:O	44:PC:131:GLY:HA3	2.04	0.57
44:PC:75:ILE:CG2	44:PC:94:SER:HB2	2.30	0.57
45:PD:156:ARG:NH1	45:PD:160:PRO:HA	2.20	0.57
45:PD:164:MET:HG2	45:PD:196:ALA:HA	1.86	0.57
44:PE:31:GLN:HG2	44:PE:33:ASP:H	1.69	0.57
45:PF:10:GLY:HA2	45:PF:143:THR:HG21	1.86	0.57
44:PG:93:ILE:HD12	44:PG:93:ILE:H	1.69	0.57
45:PH:103:LYS:O	45:PH:108:GLU:HB2	2.04	0.57
45:PJ:19:LYS:CE	45:PJ:227:HIS:HA	2.34	0.57
45:PL:86:ARG:NH1	45:QJ:281:TYR:HB2	2.19	0.57
45:PN:246:LEU:CD1	45:PN:353:ILE:HD13	2.34	0.57
44:QA:14:ILE:HG21	44:QA:74:VAL:HG21	1.84	0.57
44:QE:224:TYR:HD1	44:QE:227:LEU:HD12	1.68	0.57
45:QF:113:ILE:HG13	45:QF:116:VAL:CG1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:12:GLY:O	44:QG:16:VAL:HG22	2.04	0.57
45:QH:318:ARG:HB2	45:QH:364:ALA:HB3	1.86	0.57
45:QJ:344:TRP:CZ3	45:QJ:345:ILE:HB	2.40	0.57
45:QJ:403:MET:HE2	45:QJ:403:MET:HA	1.85	0.57
45:QL:256:ASN:O	45:QL:257:LEU:HD12	2.05	0.57
45:QL:375:GLN:OE1	45:QL:423:GLN:HG2	2.05	0.57
44:QM:193:SER:O	44:QM:197:HIS:HB2	2.05	0.57
45:QN:269:GLY:HA2	45:QN:300:MET:CG	2.27	0.57
44:RA:66:VAL:HG23	44:RA:91:GLN:O	2.04	0.57
44:RA:189:LEU:HD11	44:RA:413:MET:CE	2.34	0.57
45:RB:24:ILE:HA	45:RB:27:GLU:CG	2.34	0.57
45:RB:317:PHE:O	45:RB:354:CYS:N	2.28	0.57
44:RC:63:PRO:HG2	44:RC:86:LEU:O	2.04	0.57
44:RC:141:VAL:CG2	44:RC:187:SER:HA	2.28	0.57
44:RC:203:MET:HE3	44:RC:387:VAL:HG21	1.85	0.57
44:RC:332:ILE:HG22	44:RC:336:LYS:NZ	2.18	0.57
45:RD:217:LEU:HD11	45:RD:220:PRO:HA	1.85	0.57
44:RE:169:PHE:HD1	44:RE:202:VAL:HB	1.69	0.57
44:RG:155:GLU:HG2	44:RG:197:HIS:CD2	2.38	0.57
44:RG:174:SER:HB3	44:RG:207:GLU:HB2	1.85	0.57
44:RG:183:GLU:HG2	44:RG:184:PRO:HD3	1.85	0.57
45:RH:52:ASN:HD21	45:RH:62:ARG:NH1	2.03	0.57
44:RI:320:ARG:HD3	44:RI:360:PRO:HG3	1.86	0.57
45:RJ:91:VAL:HG21	45:RJ:116:VAL:CG2	2.33	0.57
45:RJ:268:ILE:HG13	45:RJ:300:MET:HE3	1.86	0.57
44:RK:11:GLN:HG3	44:RK:74:VAL:CG1	2.35	0.57
44:RK:294:SER:HA	44:RK:297:GLU:CG	2.35	0.57
45:RL:8:GLN:OE1	45:RL:17:GLY:HA3	2.03	0.57
45:RL:323:THR:CG2	45:RL:353:ILE:HG12	2.34	0.57
45:RN:60:VAL:HG23	45:RN:86:ARG:HE	1.70	0.57
44:SA:317:MET:HE1	44:SA:351:PHE:HD1	1.69	0.57
45:SB:21:TRP:CZ3	45:SB:50:TYR:HB3	2.39	0.57
45:SD:73:MET:HE1	45:SD:92:PHE:CB	2.35	0.57
45:SD:286:VAL:HG22	45:SD:289:LEU:HD12	1.86	0.57
45:SF:196:ALA:HB3	45:SF:264:HIS:CE1	2.39	0.57
44:SG:14:ILE:HD11	44:SG:69:ASP:CB	2.24	0.57
45:SL:135:ILE:O	45:SL:166:THR:HA	2.05	0.57
44:SM:189:LEU:HD11	44:SM:418:PHE:CE1	2.39	0.57
44:SM:219:ILE:HG22	44:SM:221:ARG:H	1.69	0.57
44:TA:115:VAL:CG2	44:TA:156:ARG:HD2	2.33	0.57
44:TA:188:ILE:HG23	44:TA:425:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:235:ILE:O	44:TA:239:THR:HG23	2.03	0.57
45:TB:330:MET:HA	45:TB:333:VAL:HG12	1.85	0.57
44:TE:274:PRO:HD2	44:TE:374:ALA:HA	1.86	0.57
44:TG:237:SER:OG	44:TG:320:ARG:NH1	2.37	0.57
44:TI:1:MET:HE2	45:TJ:94:GLN:HB3	1.86	0.57
44:TI:97:GLU:O	44:TI:110:ILE:HG21	2.04	0.57
44:TI:240:ALA:HB1	44:TI:356:ASN:HD22	1.68	0.57
45:TL:156:ARG:CD	45:TL:164:MET:HE3	2.34	0.57
45:TL:181:GLU:HA	45:TL:184:ASN:OD1	2.03	0.57
44:TM:12:GLY:O	44:TM:15:GLN:N	2.38	0.57
45:TN:7:ILE:HG23	45:TN:66:MET:HE1	1.86	0.57
45:UB:255:VAL:HA	44:UC:407:TRP:CZ3	2.38	0.57
45:UF:68:LEU:CB	45:UF:147:MET:HE1	2.33	0.57
44:UG:119:LEU:O	44:UG:122:ILE:HB	2.04	0.57
44:UG:200:VAL:HG13	44:UG:268:MET:CE	2.35	0.57
44:UG:328:VAL:O	44:UG:332:ILE:N	2.22	0.57
45:UH:168:SER:O	45:UH:201:VAL:HA	2.04	0.57
44:UI:51:THR:HG21	44:UI:243:ARG:HB3	1.85	0.57
44:UI:210:TYR:HE1	44:UI:227:LEU:HD11	1.68	0.57
44:UI:258:ASN:ND2	44:UI:352:LYS:HD3	2.19	0.57
45:UJ:375:GLN:O	45:UJ:379:LYS:HD3	2.04	0.57
44:UK:103:PHE:CE2	44:UK:189:LEU:HB3	2.39	0.57
44:UM:417:GLU:O	44:UM:420:GLU:HG2	2.04	0.57
44:VA:89:PRO:CG	44:WA:280:LYS:HG3	2.33	0.57
44:VA:274:PRO:HB3	44:VA:291:ILE:HD13	1.86	0.57
45:VB:342:VAL:CG1	45:VB:348:ASN:HD22	2.17	0.57
45:VF:101:TRP:HE1	45:VF:146:GLY:HA2	1.67	0.57
45:VF:114:ASP:OD1	45:VF:115:SER:N	2.37	0.57
45:VF:170:VAL:HG21	45:VF:377:MET:SD	2.44	0.57
44:VG:168:GLY:O	44:VG:201:ALA:HA	2.04	0.57
45:VH:173:PRO:HG3	45:VH:380:ARG:CD	2.34	0.57
44:VM:146:GLY:HA3	46:VM:501:GTP:O2B	2.03	0.57
44:WA:326:LYS:HG2	45:WD:220:PRO:HD2	1.86	0.57
44:WC:1:MET:O	44:WC:131:GLY:HA3	2.04	0.57
45:WD:65:LEU:HD21	45:WD:85:PHE:CE2	2.39	0.57
44:WG:199:ASP:HB3	44:WG:256:GLN:NE2	2.19	0.57
44:WG:324:VAL:HG12	44:WG:326:LYS:HG3	1.86	0.57
45:WH:163:ILE:CG1	45:WH:251:ARG:HD3	2.35	0.57
45:WJ:4:ILE:HG21	45:WJ:250:LEU:CD1	2.34	0.57
45:WJ:287:PRO:O	45:WJ:290:THR:HG22	2.04	0.57
45:WN:16:ILE:HD12	45:WN:229:VAL:HB	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:283:LEU:CD1	44:FE:357:TYR:CE2	2.75	0.57
1:6H:382:PHE:CG	44:FK:364:PRO:HG2	2.40	0.57
2:0A:124:LEU:HD23	45:AB:276:ARG:HH12	1.68	0.57
5:0D:59:GLY:HA3	44:EC:279:GLU:CG	2.18	0.57
5:0D:81:ARG:NH1	45:EB:357:PRO:HG2	2.15	0.57
15:0V:86:ARG:NH2	45:LN:190:HIS:O	2.33	0.57
25:1P:251:ALA:HB3	45:TF:280:GLN:HE21	1.69	0.57
25:1P:322:ARG:NH2	45:TD:80:PRO:HG3	2.19	0.57
15:1V:168:LEU:CD1	44:MK:422:ARG:HG2	2.33	0.57
21:2K:290:GLN:HG3	45:GL:362:LYS:HD3	1.85	0.57
26:2R:283:ARG:NH1	44:CG:45:GLY:HA2	2.19	0.57
15:2V:119:ILE:HD12	44:LE:437:ILE:HD11	1.86	0.57
27:2W:232:SER:OG	35:6R:3:TYR:CE1	2.57	0.57
22:3L:45:ARG:NE	45:BB:362:LYS:CB	2.66	0.57
15:3V:37:THR:HG21	44:MA:214:ARG:HE	1.68	0.57
34:4F:212:ALA:CB	45:HN:53:GLU:HG2	2.10	0.57
37:5B:102:TYR:CD1	44:KE:394:LYS:HD3	2.38	0.57
37:5D:110:ARG:HB2	44:NM:280:LYS:CB	2.29	0.57
38:5E:173:LYS:CD	45:KD:194:GLU:HA	2.32	0.57
39:5K:46:LEU:O	39:5K:47:PHE:HB2	2.04	0.57
11:5Q:99:VAL:HB	11:5Q:101:ARG:NH1	2.19	0.57
35:5R:109:GLU:OE1	45:BL:276:ARG:NH1	2.36	0.57
35:5R:215:LEU:HD23	35:5R:215:LEU:H	1.68	0.57
40:6F:44:ARG:HG3	45:IF:41:ASP:CG	2.25	0.57
35:6R:407:LYS:O	45:EN:218:THR:HG21	2.03	0.57
35:7R:476:HIS:NE2	35:7R:498:LEU:HB3	2.18	0.57
44:AA:182:VAL:HG23	44:AA:185:TYR:CD2	2.39	0.57
45:AB:169:VAL:HA	45:AB:202:ILE:O	2.05	0.57
44:AC:3:GLU:HG3	44:AC:129:CYS:HB3	1.86	0.57
45:AD:47:ILE:O	45:AD:51:TYR:HB2	2.04	0.57
44:AE:329:ASN:HD21	45:AH:174:LYS:HZ2	1.50	0.57
45:AF:163:ILE:CD1	45:AF:250:LEU:HB2	2.34	0.57
45:AF:193:VAL:HA	45:AF:264:HIS:NE2	2.18	0.57
44:AG:79:ARG:O	44:AG:84:ARG:HG2	2.05	0.57
44:AI:276:ILE:CD1	44:AI:281:ALA:HA	2.34	0.57
44:AI:323:VAL:CG2	44:AI:355:ILE:HG23	2.34	0.57
44:AK:31:GLN:NE2	44:AK:37:PRO:HG3	2.19	0.57
44:AK:332:ILE:HD12	44:AK:351:PHE:CE2	2.40	0.57
44:AM:73:THR:HG22	45:AN:247:ASN:HD22	1.69	0.57
44:AM:262:TYR:HB3	44:AM:263:PRO:HD2	1.87	0.57
44:AM:398:MET:HE2	45:AN:346:PRO:HD2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:91:GLN:O	44:BA:93:ILE:HD12	2.05	0.57
44:BC:101:ASN:HD21	45:BD:252:LYS:HG3	1.69	0.57
44:BE:188:ILE:HD12	44:BE:425:LEU:CD1	2.34	0.57
45:BF:156:ARG:CG	45:BF:195:ASN:HB3	2.34	0.57
44:BG:229:ARG:HD3	44:BG:363:VAL:HG11	1.87	0.57
45:BJ:143:THR:HG22	48:BJ:502:GDP:PB	2.44	0.57
44:BK:151:SER:HB3	44:BK:193:SER:OG	2.05	0.57
44:BK:237:SER:HA	44:BK:320:ARG:NH1	2.19	0.57
44:BM:185:TYR:CE2	44:BM:404:PHE:HB2	2.38	0.57
44:CA:109:THR:O	44:CA:110:ILE:HD13	2.04	0.57
44:CA:158:SER:O	44:CA:162:GLY:HA2	2.04	0.57
44:CA:215:ARG:CZ	44:CA:299:ALA:HB1	2.34	0.57
44:CA:333:ALA:O	44:CA:336:LYS:HG3	2.05	0.57
45:CB:288:GLU:O	45:CB:291:GLN:HG3	2.04	0.57
45:CD:206:ALA:O	45:CD:210:ILE:N	2.31	0.57
44:CE:63:PRO:HG2	44:CE:86:LEU:HG	1.86	0.57
44:CE:183:GLU:N	44:CE:184:PRO:HD2	2.19	0.57
45:CH:6:HIS:HE2	45:CH:8:GLN:HB3	1.70	0.57
44:CK:268:MET:HB2	44:CK:379:SER:O	2.04	0.57
44:CK:405:VAL:O	44:CK:409:VAL:HG23	2.05	0.57
44:CM:174:SER:CB	44:CM:207:GLU:HB2	2.34	0.57
44:DA:67:PHE:C	44:DA:68:LEU:HD12	2.24	0.57
44:DA:235:ILE:HG22	44:DA:239:THR:CG2	2.33	0.57
45:DB:274:THR:HG21	45:DB:278:SER:O	2.04	0.57
44:DC:318:MET:SD	44:DC:376:CYS:HB3	2.45	0.57
45:DD:2:ARG:NH1	44:DE:72:PRO:HG2	2.19	0.57
45:DJ:286:VAL:HG21	45:DJ:325:GLU:OE2	2.04	0.57
44:DM:294:SER:O	44:DM:300:ASN:ND2	2.34	0.57
44:EA:155:GLU:HG2	44:EA:197:HIS:CD2	2.39	0.57
44:EA:289:ALA:HA	44:EA:331:SER:OG	2.04	0.57
44:EA:298:PRO:HG3	44:EA:308:ARG:NH1	2.19	0.57
44:EC:242:LEU:HD13	44:EC:252:ILE:HG13	1.85	0.57
45:ED:60:VAL:HG13	45:ED:61:PRO:HD2	1.85	0.57
45:ED:290:THR:HG22	45:ED:330:MET:CE	2.35	0.57
44:EE:390:ARG:HG3	44:EE:391:LEU:HD12	1.87	0.57
45:EF:259:PRO:HA	44:EG:404:PHE:CD1	2.40	0.57
45:EF:306:ARG:HA	45:EF:340:TYR:CE1	2.38	0.57
44:EG:7:ILE:HB	44:EG:136:LEU:O	2.04	0.57
44:EG:102:ASN:HB3	44:EG:105:ARG:HB2	1.86	0.57
45:EJ:64:ILE:HD11	45:EJ:123:GLU:HG3	1.85	0.57
45:EJ:174:LYS:HG3	45:EJ:175:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:325:GLU:HA	45:EJ:328:GLU:CG	2.34	0.57
44:EK:6:SER:O	44:EK:7:ILE:HD13	2.04	0.57
45:EN:1:MET:C	45:EN:2:ARG:HD3	2.25	0.57
44:FA:104:ALA:HB2	44:FA:413:MET:CE	2.34	0.57
45:FB:28:HIS:HB3	45:FB:30:ILE:CD1	2.34	0.57
44:FC:287:SER:N	44:FC:290:GLU:OE2	2.35	0.57
45:FD:65:LEU:HD23	45:FD:73:MET:CE	2.35	0.57
45:FD:316:LEU:HA	45:FD:352:SER:HB2	1.86	0.57
44:FE:291:ILE:HG13	44:FE:292:THR:N	2.19	0.57
45:FH:102:ALA:HB2	45:FH:398:TYR:HD1	1.69	0.57
45:FH:392:LYS:HG3	45:FH:395:LEU:HD22	1.86	0.57
44:FI:100:ALA:HB1	45:FJ:252:LYS:CA	2.34	0.57
44:FI:425:LEU:O	44:FI:429:GLU:HG3	2.04	0.57
44:FK:286:LEU:HA	44:FK:290:GLU:OE2	2.04	0.57
44:FM:269:LEU:H	44:FM:269:LEU:HD23	1.69	0.57
45:FN:211:CYS:HB2	45:FN:220:PRO:CG	2.33	0.57
44:GA:288:VAL:O	44:GA:291:ILE:HG12	2.04	0.57
44:GC:153:LEU:O	44:GC:157:LEU:HG	2.04	0.57
45:GD:99:ASN:O	45:GD:180:VAL:HG11	2.05	0.57
45:GD:207:LEU:HD21	45:GD:300:MET:SD	2.44	0.57
44:GE:210:TYR:CD1	44:GE:227:LEU:HD21	2.40	0.57
45:GF:311:LEU:O	45:GF:342:VAL:HG21	2.05	0.57
45:GH:21:TRP:HA	45:GH:24:ILE:CG2	2.35	0.57
45:GH:148:GLY:O	45:GH:152:ILE:HG12	2.03	0.57
45:GJ:207:LEU:HA	45:GJ:210:ILE:CD1	2.28	0.57
45:GJ:321:MET:HE2	45:GJ:326:VAL:CG2	2.35	0.57
44:GK:276:ILE:CG1	44:GK:281:ALA:HA	2.34	0.57
44:GM:77:GLU:HA	44:GM:80:THR:OG1	2.04	0.57
45:GN:5:VAL:HG23	45:GN:7:ILE:HD11	1.85	0.57
44:HC:256:GLN:O	45:HF:397:TRP:HH2	1.86	0.57
45:HD:318:ARG:N	45:HD:364:ALA:O	2.37	0.57
44:HE:14:ILE:CD1	44:HE:69:ASP:HB2	2.27	0.57
45:HF:99:ASN:CA	45:HF:142:GLY:HA3	2.29	0.57
44:HG:53:PHE:O	44:HG:64:ARG:NH2	2.36	0.57
45:HL:316:LEU:HD13	45:HL:352:SER:HB2	1.86	0.57
45:HN:21:TRP:HA	45:HN:24:ILE:HG22	1.86	0.57
45:HN:182:PRO:HB2	45:HN:386:THR:O	2.04	0.57
45:IB:313:ALA:N	45:IB:348:ASN:O	2.38	0.57
45:IB:317:PHE:HB2	45:IB:352:SER:O	2.04	0.57
45:IB:405:GLU:HA	45:IB:408:PHE:HD2	1.68	0.57
44:IC:38:SER:O	44:IC:41:THR:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:325:GLU:HA	45:ID:328:GLU:CG	2.32	0.57
44:II:1:MET:O	44:II:131:GLY:HA3	2.05	0.57
44:II:171:ILE:HG23	44:II:204:LEU:O	2.03	0.57
44:II:183:GLU:HG2	44:II:184:PRO:HD3	1.85	0.57
45:IJ:305:PRO:HA	45:IJ:373:ALA:CB	2.35	0.57
44:JA:105:ARG:HD2	45:JB:251:ARG:NH1	2.19	0.57
45:JB:166:THR:HG1	45:JB:199:CYS:HA	1.67	0.57
45:JB:285:THR:CB	45:JB:287:PRO:HD2	2.34	0.57
44:JC:329:ASN:ND2	45:JF:175:VAL:HG13	2.20	0.57
44:JC:362:VAL:HG21	44:JC:368:LEU:O	2.05	0.57
45:JD:217:LEU:H	45:JD:217:LEU:HD23	1.68	0.57
44:JG:10:GLY:O	44:JG:14:ILE:HG13	2.04	0.57
45:JH:113:ILE:CA	45:JH:116:VAL:HG12	2.33	0.57
44:JI:434:GLU:O	44:JI:437:ILE:HG12	2.04	0.57
45:JJ:101:TRP:HE1	45:JJ:105:HIS:CD2	2.21	0.57
45:JJ:152:ILE:HG12	45:JJ:164:MET:CE	2.33	0.57
45:JJ:248:SER:HA	45:JJ:252:LYS:HD2	1.87	0.57
44:JK:70:LEU:HA	44:JK:95:GLY:HA3	1.85	0.57
44:JK:169:PHE:CD1	44:JK:202:VAL:HB	2.40	0.57
44:JK:188:ILE:HD13	44:JK:395:PHE:CD1	2.39	0.57
44:JM:29:GLY:O	44:JM:37:PRO:HD2	2.04	0.57
45:JN:19:LYS:HB3	45:JN:230:SER:OG	2.05	0.57
45:JN:198:GLU:OE2	45:JN:254:ALA:HB2	2.04	0.57
45:JN:242:PHE:CB	45:JN:356:ILE:HG13	2.34	0.57
44:KA:82:THR:HG23	44:KA:83:TYR:CD1	2.39	0.57
44:KA:268:MET:HG3	44:KA:380:ASN:N	2.19	0.57
45:KB:175:VAL:O	45:KB:175:VAL:HG23	2.05	0.57
45:KF:161:ASP:OD1	45:KF:162:ARG:NH1	2.37	0.57
44:KG:187:SER:O	44:KG:191:THR:HG23	2.05	0.57
45:KH:167:PHE:CE2	45:KH:233:MET:HG2	2.39	0.57
44:KI:88:HIS:HB3	44:KI:91:GLN:HG2	1.84	0.57
44:KI:177:VAL:HG11	45:KJ:327:ASP:HB3	1.85	0.57
45:KJ:201:VAL:HG21	45:KJ:377:MET:CE	2.34	0.57
45:KL:189:VAL:HG11	45:KL:415:MET:HE2	1.87	0.57
45:KL:323:THR:HA	45:KL:326:VAL:CG1	2.34	0.57
45:KN:183:TYR:CB	45:KN:398:TYR:HE2	2.17	0.57
45:KN:379:LYS:O	45:KN:383:GLU:HB2	2.03	0.57
44:LA:311:LYS:HB3	44:LA:344:VAL:HG22	1.85	0.57
44:LC:296:PHE:CE1	44:LC:335:ILE:HG21	2.39	0.57
45:LD:282:ARG:NH1	45:LD:288:GLU:OE1	2.37	0.57
44:LE:311:LYS:O	44:LE:382:THR:HG23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:36:TYR:CD1	45:LF:44:LEU:HD21	2.38	0.57
44:LG:294:SER:HA	44:LG:297:GLU:HG2	1.85	0.57
45:LL:295:ASP:OD1	45:LL:296:ALA:N	2.37	0.57
44:MA:260:VAL:O	44:MA:260:VAL:HG23	2.05	0.57
44:MC:275:ILE:HG23	44:MC:368:LEU:CD1	2.34	0.57
45:MD:272:PRO:O	45:MD:273:LEU:HD12	2.03	0.57
44:ME:1:MET:SD	44:ME:131:GLY:HA3	2.44	0.57
45:MH:167:PHE:HE1	45:MH:233:MET:CG	2.17	0.57
44:MI:291:ILE:HG13	44:MI:292:THR:N	2.20	0.57
44:MK:183:GLU:HA	44:MK:186:ASN:OD1	2.04	0.57
44:MM:149:LEU:O	44:MM:153:LEU:HD23	2.03	0.57
44:MM:393:HIS:CE1	44:MM:397:LEU:HD21	2.39	0.57
45:ND:67:ASP:C	45:ND:68:LEU:HD22	2.24	0.57
45:ND:286:VAL:HG21	45:ND:325:GLU:HG3	1.86	0.57
44:NE:275:ILE:CD1	44:NE:368:LEU:HD13	2.35	0.57
45:NF:107:THR:HG23	45:NF:108:GLU:N	2.19	0.57
45:NF:286:VAL:N	45:NF:287:PRO:HD2	2.19	0.57
45:NH:153:SER:HB2	45:NH:191:GLN:NE2	2.15	0.57
45:NH:244:GLY:HA2	45:NH:355:ASP:OD1	2.04	0.57
44:NI:109:THR:CG2	44:NI:411:GLU:HB3	2.33	0.57
44:NI:421:ALA:O	44:NI:425:LEU:HD23	2.03	0.57
44:NM:15:GLN:HA	44:NM:18:ASN:HD22	1.69	0.57
44:OA:326:LYS:HZ3	45:OD:220:PRO:HD2	1.68	0.57
45:OB:267:MET:O	45:OB:368:VAL:HG13	2.04	0.57
44:OC:126:ALA:HA	44:OC:129:CYS:SG	2.44	0.57
44:OC:298:PRO:O	44:OC:301:MET:HE2	2.05	0.57
45:OD:12:CYS:CB	45:OD:138:SER:HB2	2.34	0.57
45:OD:87:PRO:HA	45:OD:90:PHE:HD2	1.69	0.57
45:OD:189:VAL:HA	45:OD:192:LEU:HB2	1.86	0.57
44:OG:195:LEU:HD11	44:OG:264:ARG:HH22	1.68	0.57
44:OI:4:VAL:CG2	44:OI:133:GLN:HB2	2.34	0.57
44:OI:53:PHE:O	44:OI:64:ARG:NH1	2.38	0.57
45:OJ:9:GLY:HA3	45:OJ:66:MET:HE3	1.87	0.57
44:OM:256:GLN:HA	44:OM:260:VAL:HG23	1.86	0.57
45:ON:5:VAL:HA	45:ON:62:ARG:HD3	1.86	0.57
44:PC:52:PHE:HZ	44:PC:239:THR:HG21	1.70	0.57
45:PD:222:TYR:HA	45:PD:225:LEU:HG	1.87	0.57
44:PE:261:PRO:HA	45:PH:394:PHE:CE2	2.40	0.57
45:PF:173:PRO:CG	45:PF:380:ARG:HD3	2.33	0.57
44:PG:141:VAL:HG23	44:PG:190:SER:OG	2.04	0.57
45:PH:86:ARG:HB3	45:PH:89:ASN:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:183:GLU:HG2	44:PK:184:PRO:HD3	1.85	0.57
45:PL:40:SER:OG	45:PL:43:GLN:HG3	2.04	0.57
45:PL:251:ARG:O	45:PL:255:VAL:N	2.30	0.57
44:PM:67:PHE:HB2	44:PM:92:LEU:HA	1.87	0.57
44:PM:155:GLU:HG2	44:PM:197:HIS:NE2	2.18	0.57
44:PM:221:ARG:CD	45:PN:322:SER:HB3	2.34	0.57
44:PM:248:LEU:HD23	44:PM:353:VAL:HG13	1.87	0.57
45:PN:61:PRO:CD	45:PN:84:LEU:HB3	2.35	0.57
45:PN:217:LEU:HD11	45:PN:220:PRO:HG3	1.85	0.57
45:PN:289:LEU:HD11	45:PN:363:MET:HB3	1.86	0.57
44:QE:114:ILE:O	44:QE:114:ILE:HG22	2.04	0.57
44:QE:268:MET:HB2	44:QE:379:SER:C	2.24	0.57
44:QG:51:THR:HG22	44:QG:52:PHE:CD1	2.39	0.57
45:QH:309:ARG:HE	45:QH:426:GLN:HG3	1.69	0.57
45:QJ:31:ASP:HB3	45:QJ:32:PRO:HD2	1.87	0.57
44:QK:191:THR:HA	44:QK:194:LEU:CG	2.34	0.57
44:QK:377:MET:SD	44:QK:379:SER:HB3	2.43	0.57
44:QM:370:LYS:O	44:QM:370:LYS:HG3	2.04	0.57
45:QN:112:LEU:O	45:QN:112:LEU:HD23	2.04	0.57
45:QN:131:GLN:O	45:QN:163:ILE:HG12	2.04	0.57
45:QN:229:VAL:O	45:QN:233:MET:HG2	2.03	0.57
45:RB:114:ASP:O	45:RB:118:ASP:N	2.32	0.57
45:RB:248:SER:CB	45:RB:252:LYS:HD2	2.34	0.57
44:RC:187:SER:O	44:RC:191:THR:OG1	2.12	0.57
45:RD:49:VAL:HG12	45:RD:50:TYR:CD1	2.39	0.57
45:RD:269:GLY:HA3	45:RD:299:MET:HA	1.84	0.57
44:RE:329:ASN:HB3	45:RF:175:VAL:CG1	2.31	0.57
45:RF:116:VAL:HA	45:RF:119:VAL:HG12	1.86	0.57
45:RF:164:MET:O	45:RF:197:ASP:HB2	2.03	0.57
45:RF:303:ALA:H	45:RF:377:MET:HE3	1.70	0.57
44:RI:265:ILE:O	44:RI:265:ILE:HG23	2.04	0.57
45:RJ:288:GLU:HA	45:RJ:291:GLN:HG2	1.87	0.57
44:RK:2:ARG:CD	44:RK:242:LEU:HB3	2.34	0.57
44:RK:250:VAL:HG21	44:RK:354:GLY:HA3	1.85	0.57
45:RL:210:ILE:CD1	45:RL:298:ASN:HA	2.27	0.57
45:RL:268:ILE:CG2	45:RL:368:VAL:HG13	2.34	0.57
44:RM:203:MET:H	44:RM:269:LEU:HA	1.70	0.57
44:RM:234:VAL:CG2	44:RM:272:TYR:HB2	2.34	0.57
45:RN:70:PRO:HD3	45:RN:93:GLY:O	2.04	0.57
45:RN:105:HIS:NE2	45:RN:150:LEU:HB2	2.19	0.57
45:RN:192:LEU:HD11	45:RN:196:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:324:LYS:O	45:SB:328:GLU:HG2	2.05	0.57
44:SC:175:PRO:HD2	44:SC:207:GLU:OE1	2.04	0.57
44:SC:277:SER:O	44:SC:281:ALA:HB2	2.04	0.57
44:SC:352:LYS:HZ2	45:SD:178:THR:HG23	1.67	0.57
45:SD:198:GLU:OE2	45:SD:254:ALA:HB2	2.04	0.57
44:SE:71:GLU:OE1	44:SE:73:THR:HB	2.03	0.57
44:SE:148:GLY:O	44:SE:151:SER:OG	2.22	0.57
44:SG:17:GLY:HA2	44:SG:20:CYS:SG	2.43	0.57
45:SH:251:ARG:HD3	44:SI:105:ARG:NH2	2.19	0.57
45:SJ:203:ASP:OD2	45:SJ:377:MET:HE3	2.04	0.57
45:SJ:251:ARG:HG3	45:SJ:251:ARG:HH11	1.68	0.57
44:TA:14:ILE:CD1	44:TA:69:ASP:HB2	2.35	0.57
44:TA:30:ILE:HG22	44:TA:31:GLN:O	2.04	0.57
45:TF:258:ILE:HG23	45:TF:263:LEU:O	2.04	0.57
44:TG:52:PHE:O	44:TG:64:ARG:HB2	2.04	0.57
44:TG:89:PRO:HD3	44:UG:283:HIS:ND1	2.19	0.57
44:TG:118:CYS:O	44:TG:122:ILE:HG12	2.04	0.57
45:TJ:183:TYR:HE2	45:TJ:394:PHE:HB2	1.67	0.57
44:TK:238:LEU:HA	44:TK:318:MET:HE3	1.85	0.57
44:TK:289:ALA:CA	44:TK:292:THR:HG22	2.34	0.57
45:TL:42:LEU:CA	45:TL:45:GLU:HG3	2.34	0.57
45:TL:72:THR:HA	45:TL:75:SER:OG	2.04	0.57
45:TL:189:VAL:HA	45:TL:192:LEU:HB3	1.86	0.57
45:TL:379:LYS:O	45:TL:383:GLU:N	2.37	0.57
44:TM:115:VAL:HG22	44:TM:119:LEU:CD2	2.30	0.57
44:TM:195:LEU:CD1	44:TM:428:LEU:HD22	2.33	0.57
45:TN:223:GLY:O	45:TN:227:HIS:HB2	2.04	0.57
44:UA:30:ILE:CG2	44:UA:34:GLY:HA2	2.34	0.57
44:UA:118:CYS:O	44:UA:122:ILE:HG12	2.03	0.57
45:UB:148:GLY:O	45:UB:152:ILE:HG12	2.04	0.57
45:UB:324:LYS:HD3	44:UC:222:PRO:CG	2.34	0.57
45:UF:65:LEU:HD23	45:UF:73:MET:CE	2.34	0.57
45:UF:293:MET:CE	45:UF:365:VAL:HG11	2.35	0.57
44:UG:102:ASN:CG	44:UG:105:ARG:HG3	2.23	0.57
45:UH:172:SER:HB3	45:UH:203:ASP:OD2	2.04	0.57
45:UH:315:ALA:C	45:UH:316:LEU:HD12	2.24	0.57
44:UI:105:ARG:HG3	44:UI:411:GLU:HG3	1.86	0.57
44:UK:176:GLN:HG2	44:UK:177:VAL:N	2.18	0.57
44:UM:121:ARG:HH12	44:UM:124:LYS:HD2	1.69	0.57
44:UM:248:LEU:HD23	44:UM:353:VAL:O	2.04	0.57
45:UN:415:MET:CE	45:UN:418:LEU:HD23	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:6:SER:O	44:VA:7:ILE:HD13	2.04	0.57
45:VB:31:ASP:OD1	45:VB:35:THR:N	2.32	0.57
44:VC:1:MET:HE2	45:VF:70:PRO:HG3	1.86	0.57
45:VF:254:ALA:HA	45:VF:258:ILE:CD1	2.35	0.57
45:VH:135:ILE:O	45:VH:166:THR:HA	2.04	0.57
45:VH:136:THR:HG22	45:VH:233:MET:HE1	1.87	0.57
45:VH:164:MET:H	45:VH:197:ASP:CB	2.17	0.57
45:VL:280:GLN:HG2	45:VL:281:TYR:N	2.19	0.57
45:VL:309:ARG:NH1	45:VL:342:VAL:HA	2.18	0.57
45:VN:20:PHE:O	45:VN:24:ILE:HG12	2.04	0.57
45:VN:144:GLY:N	48:VN:501:GDP:O1B	2.38	0.57
44:WA:200:VAL:HG13	44:WA:268:MET:CE	2.34	0.57
44:WA:313:MET:HG2	44:WA:346:TRP:CZ2	2.39	0.57
45:WB:163:ILE:CD1	45:WB:251:ARG:HA	2.35	0.57
44:WC:188:ILE:HG21	44:WC:395:PHE:CD2	2.39	0.57
45:WD:294:PHE:CD2	45:WD:333:VAL:HG11	2.40	0.57
44:WE:5:ILE:HG23	44:WE:64:ARG:O	2.05	0.57
45:WF:21:TRP:CZ3	45:WF:61:PRO:HB3	2.39	0.57
45:WJ:238:CYS:HB2	45:WJ:318:ARG:NE	2.18	0.57
45:WJ:260:PHE:HB3	45:WJ:261:PRO:CD	2.32	0.57
44:WM:20:CYS:HA	44:WM:232:ALA:CB	2.33	0.57
44:WM:156:ARG:HB3	44:WM:160:ASP:OD2	2.03	0.57
46:WM:501:GTP:H5''	45:WN:246:LEU:CD2	2.24	0.57
45:WN:70:PRO:HG3	45:WN:92:PHE:HD2	1.70	0.57
45:WN:211:CYS:SG	45:WN:215:LEU:HD12	2.44	0.57
45:WN:420:SER:O	45:WN:424:GLN:N	2.38	0.57
4:1C:53:TYR:HA	44:EM:221:ARG:N	2.19	0.57
26:1R:392:LEU:CD2	45:ED:276:ARG:HH12	2.15	0.57
26:1R:410:TRP:NE1	44:EC:372:MET:HE1	2.18	0.57
16:1X:78:ASN:HB2	45:MF:280:GLN:HE21	1.69	0.57
32:2I:116:LEU:HD23	44:GC:339:ARG:CZ	2.35	0.57
10:2N:8:ARG:HH22	45:IB:52:ASN:HA	1.67	0.57
26:2R:119:ARG:HE	45:BJ:276:ARG:HH21	1.51	0.57
15:2V:22:ARG:HH22	44:ME:422:ARG:HG2	1.67	0.57
22:3L:45:ARG:CZ	45:BB:362:LYS:HB2	2.34	0.57
15:3V:167:TYR:OH	44:MC:396:ASP:HB3	2.04	0.57
35:4R:417:TYR:OH	44:EE:372:MET:HB3	2.04	0.57
37:5A:141:SER:HA	45:ND:320:ARG:HH22	1.67	0.57
37:5D:110:ARG:N	44:NM:282:TYR:H	2.02	0.57
38:5F:93:PHE:CE2	45:KF:261:PRO:HG3	2.39	0.57
11:5Q:61:ALA:HB2	11:5Q:154:VAL:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:99:VAL:HG21	11:5Q:101:ARG:NH2	2.19	0.57
35:5R:440:ARG:HH12	35:5R:465:ILE:HG21	1.69	0.57
35:6R:330:SER:N	35:6R:333:ASP:OD2	2.38	0.57
35:7R:389:ASN:H	45:EB:276:ARG:NH2	1.99	0.57
35:7R:573:LEU:HD21	35:7R:580:LEU:CD1	2.34	0.57
44:AA:217:LEU:HB3	44:AA:219:ILE:HG12	1.84	0.57
44:AE:53:PHE:O	44:AE:64:ARG:NH2	2.29	0.57
44:AI:51:THR:HG22	44:AI:52:PHE:HD1	1.70	0.57
45:AL:113:ILE:CD1	45:AL:150:LEU:HD22	2.34	0.57
45:AL:238:CYS:SG	45:AL:239:CYS:N	2.78	0.57
44:AM:51:THR:CG2	44:AM:243:ARG:HB3	2.32	0.57
44:AM:270:SER:O	44:AM:302:MET:HE3	2.05	0.57
44:AM:313:MET:HB2	44:AM:380:ASN:O	2.04	0.57
45:AN:12:CYS:HB2	48:AN:501:GDP:C8	2.38	0.57
44:BA:185:TYR:CZ	44:BA:398:MET:HE3	2.39	0.57
44:BC:141:VAL:HG11	44:BC:173:PRO:HD3	1.86	0.57
44:BC:183:GLU:N	44:BC:184:PRO:HD2	2.19	0.57
44:BC:254:GLU:HG2	45:BF:98:GLY:CA	2.34	0.57
44:BK:88:HIS:ND1	44:BK:89:PRO:HG2	2.19	0.57
45:BL:114:ASP:OD1	45:BL:115:SER:N	2.37	0.57
45:BL:260:PHE:HB3	45:BL:261:PRO:HD2	1.86	0.57
45:BL:334:GLN:HE22	45:BL:347:ASN:H	1.52	0.57
45:BN:20:PHE:CD2	45:BN:24:ILE:HD13	2.38	0.57
45:BN:217:LEU:HD12	45:BN:217:LEU:O	2.05	0.57
45:BN:304:ASP:HB3	45:BN:307:HIS:CG	2.39	0.57
45:CB:256:ASN:HD22	45:CB:350:LYS:HD2	1.68	0.57
44:CC:88:HIS:HE1	44:CC:90:GLU:HG2	1.65	0.57
45:CD:113:ILE:O	45:CD:116:VAL:HG12	2.02	0.57
44:CE:288:VAL:HG11	44:CE:327:ASP:CG	2.25	0.57
45:CF:232:ALA:CB	45:CF:268:ILE:HD12	2.34	0.57
45:CH:101:TRP:CD2	45:CH:187:LEU:HD13	2.40	0.57
45:CJ:19:LYS:HG2	45:CJ:227:HIS:HA	1.87	0.57
45:CJ:269:GLY:HA2	45:CJ:300:MET:CE	2.33	0.57
44:CK:246:GLY:HA3	44:CK:249:ASN:OD1	2.05	0.57
45:CL:141:GLY:HA3	48:CL:501:GDP:O3A	2.03	0.57
45:CL:150:LEU:HD23	45:CL:154:LYS:HG3	1.85	0.57
45:CN:30:ILE:HG21	45:CN:51:TYR:OH	2.03	0.57
45:DB:316:LEU:O	45:DB:365:VAL:HA	2.04	0.57
44:DC:183:GLU:N	44:DC:184:PRO:HD2	2.18	0.57
45:DF:2:ARG:HD2	44:DG:96:LYS:O	2.03	0.57
45:DF:192:LEU:HG	45:DF:196:ALA:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:267:MET:CE	45:DF:374:ILE:HB	2.34	0.57
44:DG:260:VAL:HG13	44:DG:265:ILE:O	2.04	0.57
44:DI:9:VAL:O	44:DI:139:ASN:HA	2.04	0.57
44:DI:175:PRO:HB2	44:DI:176:GLN:OE1	2.04	0.57
45:DL:105:HIS:CE1	45:DL:150:LEU:HD12	2.39	0.57
45:DL:252:LYS:CA	44:DM:100:ALA:HB1	2.34	0.57
45:DL:256:ASN:ND2	44:DM:181:VAL:HG22	2.19	0.57
45:DN:318:ARG:HD3	45:DN:358:PRO:CG	2.34	0.57
44:EA:271:SER:O	44:EA:377:MET:HE2	2.05	0.57
44:EC:31:GLN:O	44:EC:34:GLY:N	2.36	0.57
44:EC:53:PHE:HE2	44:EC:63:PRO:HG3	1.67	0.57
44:EC:270:SER:CB	44:EC:378:ILE:HD13	2.34	0.57
45:ED:224:ASP:O	45:ED:227:HIS:N	2.37	0.57
45:ED:291:GLN:O	45:ED:295:ASP:HB2	2.03	0.57
44:EE:182:VAL:HG22	44:EE:185:TYR:HB2	1.87	0.57
44:EG:26:LEU:HD12	44:EG:26:LEU:O	2.04	0.57
44:EK:11:GLN:CG	44:EK:74:VAL:HG11	2.21	0.57
44:EK:205:ASP:OD2	44:EK:304:LYS:HG3	2.05	0.57
45:EL:304:ASP:HB3	45:EL:307:HIS:CG	2.39	0.57
44:FA:209:ILE:HG21	44:FA:227:LEU:HA	1.85	0.57
45:FB:3:GLU:HB3	45:FB:49:VAL:HG22	1.86	0.57
45:FB:334:GLN:NE2	45:FB:348:ASN:H	2.02	0.57
44:FC:101:ASN:HA	44:FC:144:GLY:CA	2.34	0.57
44:FC:151:SER:O	44:FC:154:LEU:HB2	2.04	0.57
45:FD:65:LEU:HD23	45:FD:73:MET:HE2	1.87	0.57
44:FE:93:ILE:HD13	44:FE:117:LEU:CB	2.32	0.57
45:FH:124:ALA:HB1	45:FH:130:LEU:HD12	1.86	0.57
45:FH:132:GLY:HA3	45:FH:163:ILE:CG2	2.34	0.57
45:FH:139:LEU:HD12	45:FH:188:SER:CB	2.34	0.57
45:FH:210:ILE:CD1	45:FH:300:MET:HG3	2.35	0.57
44:FI:334:THR:HG22	44:FI:338:LYS:HZ2	1.68	0.57
44:FK:205:ASP:OD2	44:FK:304:LYS:N	2.30	0.57
45:FL:165:GLU:OE2	45:FL:250:LEU:HD21	2.04	0.57
44:FM:171:ILE:HG23	44:FM:204:LEU:O	2.04	0.57
44:FM:383:ALA:O	44:FM:386:GLU:HG2	2.04	0.57
45:FN:73:MET:HE3	45:FN:92:PHE:CB	2.34	0.57
44:GA:239:THR:CB	44:GA:242:LEU:HD12	2.35	0.57
44:GA:348:PRO:HD3	45:GD:388:MET:CE	2.34	0.57
45:GB:213:ARG:HD2	45:GB:297:LYS:HD2	1.87	0.57
44:GC:23:LEU:HD11	44:GC:361:THR:HG23	1.85	0.57
44:GC:70:LEU:HD12	44:GC:145:THR:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GC:422:ARG:O	44:GC:426:ALA:N	2.27	0.57
44:GG:208:ALA:O	44:GG:212:ILE:HG12	2.03	0.57
44:GI:21:TRP:HZ2	44:GI:65:ALA:HB2	1.69	0.57
45:GJ:293:MET:HE1	45:GJ:365:VAL:HG12	1.84	0.57
45:GL:42:LEU:HA	45:GL:45:GLU:HG3	1.86	0.57
45:GL:131:GLN:CG	45:GL:250:LEU:HD12	2.33	0.57
44:HA:151:SER:HB3	44:HA:193:SER:OG	2.05	0.57
45:HB:178:THR:HG22	45:HB:180:VAL:H	1.68	0.57
45:HB:239:CYS:HB3	45:HB:354:CYS:HB2	1.86	0.57
45:HB:271:ALA:O	45:HB:365:VAL:N	2.30	0.57
45:HB:411:ALA:O	45:HB:415:MET:HE2	2.04	0.57
44:HC:112:LYS:HE3	44:HC:113:GLU:HG2	1.85	0.57
44:HC:135:PHE:C	44:HC:136:LEU:HD12	2.25	0.57
44:HC:320:ARG:HD3	44:HC:359:PRO:HA	1.85	0.57
45:HF:221:THR:O	45:HF:224:ASP:N	2.37	0.57
44:HG:135:PHE:CE2	44:HG:157:LEU:HD11	2.40	0.57
44:HG:315:CYS:HA	44:HG:379:SER:CB	2.35	0.57
44:HI:18:ASN:O	44:HI:22:GLU:OE1	2.22	0.57
44:HI:140:SER:HB2	46:HI:501:GTP:O2A	2.03	0.57
45:HJ:304:ASP:OD1	45:HJ:306:ARG:HG3	2.04	0.57
45:HJ:341:PHE:HB3	45:HJ:348:ASN:HD21	1.68	0.57
44:HK:104:ALA:HB3	44:HK:411:GLU:HB2	1.86	0.57
44:HK:243:ARG:HG3	44:HK:244:PHE:CE2	2.40	0.57
45:HL:20:PHE:O	45:HL:23:VAL:HG12	2.03	0.57
45:HL:183:TYR:O	45:HL:187:LEU:HD23	2.05	0.57
45:HL:240:LEU:O	45:HL:240:LEU:HD23	2.04	0.57
45:HN:372:THR:HG21	45:HN:426:GLN:HB2	1.86	0.57
44:IA:64:ARG:HG3	44:IA:125:LEU:HD22	1.84	0.57
44:IA:202:VAL:HG13	44:IA:268:MET:SD	2.44	0.57
45:IB:319:GLY:CA	45:IB:357:PRO:HG3	2.34	0.57
45:ID:204:ASN:O	45:ID:207:LEU:HB2	2.04	0.57
45:IF:167:PHE:CE1	45:IF:200:MET:HG3	2.39	0.57
45:IF:293:MET:SD	45:IF:365:VAL:HG11	2.44	0.57
44:IG:206:ASN:HA	44:IG:209:ILE:CD1	2.33	0.57
44:IG:210:TYR:OH	45:IH:323:THR:OG1	2.22	0.57
44:IK:223:THR:OG1	45:IL:323:THR:HG23	2.04	0.57
44:IK:290:GLU:O	44:IK:293:ASN:HB2	2.05	0.57
45:IL:267:MET:CE	45:IL:301:CYS:HB2	2.35	0.57
45:IL:309:ARG:NH2	45:IL:426:GLN:O	2.37	0.57
44:IM:168:GLY:N	44:IM:200:VAL:O	2.31	0.57
44:IM:332:ILE:HD12	44:IM:351:PHE:CE2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:261:PRO:HG2	44:JE:313:MET:SD	2.44	0.57
45:JH:36:TYR:CZ	45:JH:38:GLY:HA3	2.39	0.57
45:JH:193:VAL:HA	45:JH:264:HIS:CE1	2.39	0.57
44:JI:202:VAL:HG11	44:JI:270:SER:HB3	1.85	0.57
44:JI:229:ARG:HD3	44:JI:363:VAL:HG11	1.86	0.57
44:JI:291:ILE:HG13	44:JI:292:THR:N	2.19	0.57
45:JL:169:VAL:HA	45:JL:202:ILE:O	2.04	0.57
44:JM:167:LEU:HD21	44:JM:255:PHE:CE2	2.39	0.57
45:JN:206:ALA:HA	45:JN:209:ASP:OD2	2.05	0.57
45:JN:245:GLN:HB2	45:JN:353:ILE:CG2	2.34	0.57
44:KA:176:GLN:HG2	44:KA:177:VAL:N	2.19	0.57
45:KB:31:ASP:OD1	45:KB:35:THR:N	2.37	0.57
45:KF:117:LEU:HA	45:KF:120:VAL:HG12	1.85	0.57
45:KF:202:ILE:CD1	45:KF:268:ILE:HD11	2.34	0.57
45:KH:429:THR:HG22	45:KH:430:ALA:H	1.68	0.57
45:KJ:162:ARG:HA	45:KJ:162:ARG:NE	2.17	0.57
45:KJ:169:VAL:HG12	45:KJ:202:ILE:CG1	2.34	0.57
45:KL:210:ILE:HG13	45:KL:214:THR:CG2	2.35	0.57
45:KL:309:ARG:HH21	45:KL:343:GLU:HG3	1.70	0.57
45:KN:166:THR:HG22	45:KN:199:CYS:HA	1.86	0.57
45:KN:288:GLU:OE1	45:KN:288:GLU:N	2.27	0.57
45:KN:309:ARG:HH11	45:KN:340:TYR:HD1	1.53	0.57
44:LA:402:ARG:NH2	44:LA:415:GLU:OE2	2.36	0.57
45:LB:100:ASN:OD1	45:LB:103:LYS:HG3	2.03	0.57
45:LB:186:THR:HG21	45:LB:385:PHE:CE1	2.38	0.57
45:LB:379:LYS:HG3	45:LB:419:VAL:HG11	1.85	0.57
45:LD:344:TRP:CE3	45:LD:345:ILE:HG12	2.40	0.57
44:LE:89:PRO:HG3	44:ME:280:LYS:HG3	1.86	0.57
45:LF:63:ALA:HB1	45:LF:65:LEU:HD12	1.85	0.57
44:LG:19:ALA:O	44:LG:22:GLU:HG2	2.05	0.57
44:LG:271:SER:HB3	44:LG:377:MET:HE3	1.86	0.57
44:LI:11:GLN:NE2	45:LJ:246:LEU:HA	2.20	0.57
45:LJ:242:PHE:HD2	45:LJ:356:ILE:CB	2.17	0.57
45:LJ:278:SER:O	45:LJ:282:ARG:HG3	2.03	0.57
45:LJ:286:VAL:HG22	45:LJ:363:MET:HE3	1.87	0.57
45:LL:167:PHE:CE2	45:LL:233:MET:HG3	2.38	0.57
44:MC:68:LEU:HD13	44:MC:93:ILE:HB	1.87	0.57
44:MG:188:ILE:CG1	44:MG:425:LEU:HD12	2.34	0.57
45:MH:266:PHE:CE1	45:MH:370:ASN:HB2	2.40	0.57
45:MH:313:ALA:HB1	45:MH:367:PHE:HE1	1.67	0.57
44:MI:110:ILE:HG13	44:MI:111:GLY:N	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:4:ILE:HG23	45:MJ:131:GLN:HB3	1.86	0.57
45:MJ:189:VAL:O	45:MJ:192:LEU:N	2.37	0.57
45:ML:259:PRO:CD	45:ML:260:PHE:H	2.05	0.57
45:ML:263:LEU:HG	45:ML:422:TYR:CD1	2.39	0.57
44:MM:99:ALA:HB3	44:MM:145:THR:HG22	1.85	0.57
44:NA:232:ALA:HA	44:NA:235:ILE:HG12	1.86	0.57
45:NB:295:ASP:OD2	45:NB:297:LYS:HE2	2.04	0.57
44:NC:343:PHE:HZ	44:NC:351:PHE:CZ	2.22	0.57
45:ND:223:GLY:HA2	45:ND:226:ASN:ND2	2.20	0.57
44:NE:183:GLU:HG2	44:NE:184:PRO:CD	2.34	0.57
45:NF:375:GLN:HB3	45:NF:422:TYR:CD1	2.40	0.57
45:NH:167:PHE:HE1	45:NH:200:MET:HE3	1.69	0.57
45:NH:260:PHE:HB3	45:NH:261:PRO:HD2	1.86	0.57
45:NH:287:PRO:O	45:NH:290:THR:HG22	2.04	0.57
45:NJ:7:ILE:HD12	45:NJ:64:ILE:O	2.04	0.57
45:NJ:47:ILE:HG21	45:NJ:59:TYR:HE2	1.70	0.57
45:NJ:113:ILE:O	45:NJ:116:VAL:HG12	2.04	0.57
44:NK:17:GLY:O	44:NK:20:CYS:N	2.37	0.57
45:NL:6:HIS:HD2	45:NL:134:GLN:HE22	1.53	0.57
44:OC:68:LEU:HD21	44:OC:118:CYS:HB2	1.85	0.57
44:OE:89:PRO:HG3	44:PE:280:LYS:CE	2.35	0.57
45:OH:45:GLU:OE2	45:OH:46:ARG:HG2	2.03	0.57
45:OH:266:PHE:HD1	45:OH:370:ASN:HB2	1.69	0.57
44:OK:326:LYS:HZ3	45:ON:212:PHE:HD2	1.51	0.57
44:OK:387:VAL:HG23	44:OK:390:ARG:NH2	2.20	0.57
44:OM:72:PRO:HA	44:OM:75:ILE:HG22	1.86	0.57
44:OM:100:ALA:HB1	45:ON:252:LYS:HA	1.86	0.57
45:ON:19:LYS:HG3	45:ON:226:ASN:CB	2.34	0.57
45:ON:99:ASN:CA	45:ON:142:GLY:HA3	2.26	0.57
44:PA:97:GLU:HG2	44:PA:105:ARG:HH22	1.70	0.57
44:PA:136:LEU:HD22	44:PA:167:LEU:HB2	1.87	0.57
44:PA:169:PHE:CD2	44:PA:204:LEU:HD11	2.38	0.57
45:PB:178:THR:HB	45:PB:181:GLU:CD	2.25	0.57
45:PF:304:ASP:OD1	45:PF:306:ARG:HG2	2.03	0.57
44:PG:98:ASP:HB3	45:PH:249:ASP:OD2	2.03	0.57
44:PI:326:LYS:HG2	45:PL:220:PRO:HG2	1.85	0.57
45:PJ:12:CYS:CB	45:PJ:138:SER:HB2	2.34	0.57
45:PJ:143:THR:HG22	48:PJ:501:GDP:O2B	2.04	0.57
44:PK:287:SER:C	44:PK:373:ARG:HD3	2.24	0.57
45:PL:51:TYR:CE1	45:PL:61:PRO:HG3	2.39	0.57
44:QA:377:MET:O	44:QA:378:ILE:HD13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:87:PHE:HD1	44:QC:91:GLN:HE21	1.52	0.57
44:QC:259:LEU:HD21	44:QC:316:SER:CB	2.34	0.57
45:QD:110:ALA:O	45:QD:113:ILE:HG22	2.04	0.57
45:QD:245:GLN:HB2	45:QD:246:LEU:HD12	1.86	0.57
45:QD:304:ASP:O	45:QD:373:ALA:HB1	2.03	0.57
45:QF:36:TYR:CD2	45:QF:44:LEU:HD11	2.40	0.57
45:QF:134:GLN:CA	45:QF:165:GLU:HB2	2.35	0.57
45:QF:249:ASP:OD1	45:QF:252:LYS:N	2.34	0.57
45:QF:395:LEU:O	45:QF:399:THR:HG23	2.05	0.57
45:QH:311:LEU:CD2	45:QH:342:VAL:HG21	2.34	0.57
45:QH:345:ILE:O	45:QH:345:ILE:HG23	2.04	0.57
45:QJ:316:LEU:CA	45:QJ:352:SER:HB2	2.24	0.57
44:QK:195:LEU:HD21	44:QK:264:ARG:NH2	2.20	0.57
44:QK:230:LEU:HD11	44:QK:368:LEU:HD21	1.86	0.57
45:QL:113:ILE:HD13	45:QL:150:LEU:HD23	1.86	0.57
44:QM:115:VAL:O	44:QM:119:LEU:N	2.34	0.57
44:QM:209:ILE:CD1	44:QM:231:ILE:HD11	2.35	0.57
45:QN:103:LYS:HA	45:QN:107:THR:OG1	2.04	0.57
44:RA:188:ILE:HG22	44:RA:421:ALA:HB1	1.85	0.57
45:RB:31:ASP:O	45:RB:34:GLY:N	2.32	0.57
45:RB:324:LYS:HD2	44:RC:210:TYR:CD1	2.40	0.57
45:RB:326:VAL:HG12	45:RB:330:MET:HE2	1.86	0.57
44:RC:186:ASN:OD1	44:RC:187:SER:N	2.37	0.57
44:RC:317:MET:HE2	44:RC:319:TYR:OH	2.04	0.57
44:RE:34:GLY:HA3	44:RE:60:LYS:CB	2.34	0.57
44:RE:319:TYR:CE1	44:RE:375:VAL:HG23	2.32	0.57
44:RI:32:PRO:HD2	44:RI:33:ASP:N	2.17	0.57
44:RI:104:ALA:HA	44:RI:413:MET:HE1	1.84	0.57
44:RI:269:LEU:HD12	44:RI:301:MET:HE2	1.87	0.57
44:RI:296:PHE:HE2	44:RI:335:ILE:HG21	1.70	0.57
45:RJ:374:ILE:HD11	45:RJ:422:TYR:CZ	2.40	0.57
44:RK:331:SER:O	44:RK:335:ILE:HG12	2.05	0.57
45:RL:6:HIS:NE2	45:RL:8:GLN:OE1	2.35	0.57
45:RL:324:LYS:HD3	44:RM:222:PRO:CG	2.33	0.57
44:RM:145:THR:HA	44:RM:149:LEU:HD23	1.85	0.57
44:SA:387:VAL:HA	44:SA:390:ARG:CG	2.32	0.57
44:SC:263:PRO:HD3	45:SD:396:HIS:ND1	2.19	0.57
44:SC:291:ILE:HG13	44:SC:292:THR:N	2.19	0.57
45:SD:63:ALA:O	45:SD:64:ILE:HD13	2.04	0.57
45:SJ:330:MET:SD	45:SJ:349:ILE:HD13	2.44	0.57
44:SK:247:ALA:HB1	45:SL:222:TYR:CE2	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:200:VAL:HG13	44:SM:268:MET:CE	2.34	0.57
44:SM:218:ASP:HB2	44:SM:280:LYS:NZ	2.20	0.57
45:SN:169:VAL:HG13	45:SN:202:ILE:O	2.05	0.57
44:TA:9:VAL:HA	44:TA:68:LEU:O	2.05	0.57
44:TA:288:VAL:HG13	44:TA:373:ARG:NH2	2.20	0.57
44:TA:428:LEU:HG	44:TA:432:TYR:CE2	2.39	0.57
45:TD:260:PHE:CZ	44:TE:403:ALA:HA	2.39	0.57
44:TE:80:THR:CA	44:TE:84:ARG:HD2	2.34	0.57
45:TF:232:ALA:HB1	45:TF:268:ILE:HD12	1.86	0.57
45:TH:12:CYS:HB2	48:TH:501:GDP:C8	2.40	0.57
44:TI:313:MET:HE3	44:TI:380:ASN:O	2.04	0.57
45:TJ:164:MET:HG3	45:TJ:197:ASP:OD2	2.04	0.57
45:TJ:317:PHE:CZ	45:TJ:326:VAL:HG13	2.40	0.57
45:TN:284:LEU:O	45:TN:285:THR:HG23	2.05	0.57
45:UB:246:LEU:HD22	44:UC:179:THR:OG1	2.05	0.57
44:UC:121:ARG:NH1	44:UC:124:LYS:HD2	2.19	0.57
45:UF:322:SER:HB3	44:UG:221:ARG:CD	2.34	0.57
44:UG:202:VAL:HG22	44:UG:268:MET:SD	2.44	0.57
44:UG:294:SER:O	44:UG:297:GLU:HB2	2.04	0.57
44:UG:439:THR:HG21	45:UH:390:ARG:CD	2.35	0.57
45:UH:310:TYR:HB2	45:UH:341:PHE:HD1	1.69	0.57
44:UI:137:VAL:O	44:UI:168:GLY:HA2	2.04	0.57
44:UI:326:LYS:HE2	45:UJ:220:PRO:HD2	1.86	0.57
45:UJ:252:LYS:NZ	46:UK:501:GTP:O1G	2.31	0.57
45:UJ:257:LEU:O	45:UJ:259:PRO:HD3	2.03	0.57
44:UK:71:GLU:CD	44:UK:73:THR:H	2.07	0.57
44:UK:153:LEU:O	44:UK:157:LEU:HG	2.05	0.57
45:UL:32:PRO:HG3	45:UL:81:PHE:CE1	2.39	0.57
45:UL:119:VAL:O	45:UL:122:LYS:HG2	2.03	0.57
45:UL:367:PHE:CZ	45:UL:369:GLY:HA3	2.39	0.57
45:UN:193:VAL:HG23	45:UN:265:PHE:HZ	1.67	0.57
44:VA:55:GLU:HG3	44:VA:57:GLY:H	1.68	0.57
44:VC:88:HIS:H	44:VC:91:GLN:NE2	2.01	0.57
44:VC:228:ASN:O	44:VC:231:ILE:HG22	2.03	0.57
45:VD:186:THR:HG23	45:VD:187:LEU:N	2.20	0.57
44:VE:20:CYS:HA	44:VE:232:ALA:HB2	1.87	0.57
45:VF:323:THR:O	45:VF:326:VAL:N	2.37	0.57
44:VG:246:GLY:HA2	44:VG:357:TYR:CD1	2.40	0.57
44:VI:243:ARG:HG3	44:VI:244:PHE:CE2	2.39	0.57
44:VI:261:PRO:HA	45:VL:394:PHE:CE1	2.39	0.57
44:VI:280:LYS:O	44:VI:280:LYS:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:387:VAL:HA	44:VI:390:ARG:NH1	2.19	0.57
45:VL:341:PHE:HB3	45:VL:348:ASN:HD21	1.68	0.57
44:VM:75:ILE:HD11	44:VM:92:LEU:HG	1.87	0.57
44:VM:316:SER:HB3	44:VM:378:ILE:O	2.04	0.57
45:VN:211:CYS:CB	45:VN:217:LEU:HD21	2.33	0.57
44:WA:185:TYR:OH	44:WA:399:TYR:N	2.38	0.57
45:WB:103:LYS:HG3	45:WB:108:GLU:HG2	1.85	0.57
44:WC:152:LEU:HA	44:WC:155:GLU:OE2	2.04	0.57
44:WC:324:VAL:HG21	45:WF:220:PRO:O	2.05	0.57
45:WD:20:PHE:CE1	45:WD:24:ILE:HD11	2.40	0.57
45:WD:133:PHE:HB2	45:WD:164:MET:SD	2.44	0.57
45:WD:287:PRO:HD3	45:WD:325:GLU:OE2	2.04	0.57
44:WE:22:GLU:HG3	44:WE:83:TYR:OH	2.02	0.57
44:WG:136:LEU:CD2	44:WG:167:LEU:HB2	2.34	0.57
44:WG:311:LYS:HG3	44:WG:342:GLN:HG3	1.86	0.57
44:WG:346:TRP:CD1	45:WJ:391:ARG:HG3	2.39	0.57
45:WH:8:GLN:OE1	45:WH:17:GLY:HA3	2.04	0.57
45:WH:389:PHE:O	45:WH:392:LYS:HD2	2.04	0.57
44:WI:273:ALA:HB1	44:WI:274:PRO:HA	1.87	0.57
44:WK:98:ASP:OD1	44:WK:99:ALA:N	2.36	0.57
44:WK:156:ARG:HB3	44:WK:160:ASP:OD2	2.05	0.57
44:WK:311:LYS:HA	44:WK:342:GLN:HE22	1.69	0.57
45:WL:178:THR:CG2	45:WL:180:VAL:HG12	2.35	0.57
44:WM:221:ARG:HB3	45:WN:322:SER:CB	2.34	0.57
44:WM:304:LYS:HZ2	44:WM:387:VAL:HG12	1.69	0.57
45:WN:315:ALA:HB1	45:WN:317:PHE:CE1	2.40	0.57
2:0A:104:ARG:CG	35:7R:58:ARG:HA	2.35	0.57
7:0F:75:ARG:HH12	45:ED:360:GLY:H	1.52	0.57
19:1I:216:PRO:CD	44:LE:359:PRO:HG3	2.35	0.57
5:2D:52:ASN:ND2	45:EJ:320:ARG:O	2.29	0.57
29:2F:71:ARG:NH2	45:GF:118:ASP:HB2	2.18	0.57
30:2G:37:LYS:HG2	45:JJ:77:ARG:CZ	2.34	0.57
15:2V:225:THR:HG23	45:VH:77:ARG:CZ	2.33	0.57
35:4R:175:GLU:OE2	45:AH:31:ASP:HB3	2.03	0.57
37:5D:26:LYS:HD3	45:KN:398:TYR:HB2	1.85	0.57
38:5G:29:LYS:HB3	38:5G:30:PRO:CD	2.34	0.57
39:5J:107:GLN:HA	39:5J:110:LYS:HG2	1.85	0.57
35:5R:319:PRO:HG2	45:CJ:215:LEU:HD11	1.86	0.57
35:5R:507:ARG:HH11	44:EI:42:ILE:HD11	1.69	0.57
40:6F:136:ARG:NH1	44:IG:77:GLU:OE2	2.37	0.57
41:6G:210:ARG:CZ	45:VF:297:LYS:HA	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6Q:14:LEU:HD22	11:6Q:162:ILE:HD12	1.86	0.57
35:6R:323:LEU:HD11	45:CN:276:ARG:CG	2.35	0.57
43:8P:177:UNK:O	43:8P:181:UNK:N	2.38	0.57
45:AB:318:ARG:CD	45:AB:358:PRO:HD3	2.34	0.57
44:AC:288:VAL:O	44:AC:291:ILE:HG12	2.05	0.57
45:AD:117:LEU:HD11	45:AD:158:GLU:OE2	2.04	0.57
44:AE:276:ILE:HG23	44:AE:281:ALA:HB2	1.86	0.57
45:AH:232:ALA:CB	45:AH:268:ILE:HD12	2.34	0.57
45:AJ:283:ALA:O	45:AJ:288:GLU:HG3	2.05	0.57
44:AM:319:TYR:N	44:AM:354:GLY:O	2.24	0.57
44:AM:417:GLU:O	44:AM:420:GLU:HG2	2.05	0.57
45:AN:207:LEU:O	45:AN:210:ILE:HG22	2.04	0.57
45:AN:311:LEU:HD12	45:AN:342:VAL:HG11	1.85	0.57
44:BA:407:TRP:CH2	45:BB:255:VAL:CA	2.79	0.57
44:BC:13:GLY:HA2	44:BC:16:VAL:HG12	1.86	0.57
44:BC:257:THR:HG22	45:BF:397:TRP:CE2	2.40	0.57
44:BG:77:GLU:O	44:BG:81:GLY:N	2.37	0.57
44:BG:77:GLU:HA	44:BG:80:THR:OG1	2.05	0.57
44:BG:217:LEU:HD22	44:BG:219:ILE:HG13	1.85	0.57
44:BG:242:LEU:HD11	44:BG:252:ILE:HD12	1.85	0.57
44:BG:288:VAL:HG11	44:BG:327:ASP:CB	2.34	0.57
45:BH:8:GLN:HG3	45:BH:14:ASN:HA	1.87	0.57
45:BH:52:ASN:O	45:BH:54:ALA:N	2.38	0.57
45:BH:295:ASP:CG	45:BH:297:LYS:HG2	2.25	0.57
45:BH:358:PRO:C	45:BH:361:LEU:HD22	2.25	0.57
45:BJ:213:ARG:HE	45:BJ:297:LYS:CE	2.17	0.57
45:CB:2:ARG:HH22	45:CB:240:LEU:HA	1.69	0.57
44:CC:174:SER:OG	44:CC:207:GLU:HB2	2.04	0.57
44:CI:124:LYS:O	44:CI:127:ASP:HB2	2.04	0.57
45:CJ:238:CYS:HB2	45:CJ:318:ARG:CZ	2.35	0.57
44:CK:245:ASP:OD1	44:CK:246:GLY:N	2.38	0.57
44:CK:259:LEU:HD23	44:CK:259:LEU:O	2.04	0.57
44:CK:417:GLU:O	44:CK:420:GLU:HG2	2.04	0.57
45:CL:4:ILE:O	45:CL:62:ARG:NH2	2.37	0.57
45:CL:259:PRO:CD	45:CL:260:PHE:N	2.64	0.57
44:CM:422:ARG:NH1	44:CM:426:ALA:HB2	2.18	0.57
45:DB:52:ASN:O	45:DB:60:VAL:HG12	2.04	0.57
45:DB:134:GLN:O	45:DB:135:ILE:HD13	2.05	0.57
45:DB:252:LYS:HE2	46:DB:502:GTP:O2G	2.03	0.57
45:DB:341:PHE:HD2	45:DB:348:ASN:HD21	1.51	0.57
44:DC:271:SER:HB2	44:DC:377:MET:SD	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DE:90:GLU:HG3	44:DE:121:ARG:NH1	2.19	0.57
44:DE:181:VAL:HG22	44:DE:181:VAL:O	2.04	0.57
45:DF:276:ARG:O	45:DF:276:ARG:NH1	2.24	0.57
44:DG:20:CYS:HA	44:DG:232:ALA:HB1	1.86	0.57
44:DG:166:LYS:C	44:DG:167:LEU:HD12	2.25	0.57
44:DG:183:GLU:HG2	44:DG:184:PRO:HD3	1.85	0.57
44:DG:264:ARG:HE	44:DG:431:ASP:HB3	1.70	0.57
45:DH:16:ILE:HD13	45:DH:226:ASN:OD1	2.04	0.57
45:DH:68:LEU:CD2	45:DH:97:ALA:HB2	2.33	0.57
44:DK:71:GLU:CD	44:DK:73:THR:H	2.06	0.57
45:DL:1:MET:SD	45:DL:2:ARG:HD3	2.44	0.57
44:DM:317:MET:N	44:DM:352:LYS:O	2.25	0.57
44:DM:340:THR:HG23	44:DM:341:ILE:HG13	1.86	0.57
44:EA:312:TYR:HA	44:EA:381:SER:HA	1.85	0.57
45:ED:183:TYR:O	45:ED:186:THR:N	2.36	0.57
45:ED:269:GLY:HA2	45:ED:300:MET:CE	2.34	0.57
45:EF:40:SER:N	45:EF:43:GLN:OE1	2.37	0.57
45:EF:258:ILE:HG13	45:EF:266:PHE:HZ	1.69	0.57
44:EG:9:VAL:HG13	44:EG:139:ASN:HB3	1.85	0.57
45:EJ:39:ASP:N	45:EJ:43:GLN:OE1	2.38	0.57
45:EL:81:PHE:O	45:EL:84:LEU:HD13	2.03	0.57
44:EM:118:CYS:O	44:EM:122:ILE:HG23	2.05	0.57
45:EN:344:TRP:CZ3	45:EN:345:ILE:HB	2.40	0.57
44:FA:272:TYR:CD2	44:FA:275:ILE:HG13	2.39	0.57
44:FA:409:VAL:HA	44:FA:413:MET:O	2.05	0.57
44:FC:72:PRO:HD2	45:FD:2:ARG:CZ	2.34	0.57
45:FF:28:HIS:CB	45:FF:43:GLN:HE21	2.14	0.57
45:FF:253:LEU:O	45:FF:257:LEU:HD13	2.03	0.57
45:FF:413:SER:O	45:FF:417:ASP:HB2	2.05	0.57
44:FG:404:PHE:CD1	45:FH:259:PRO:HA	2.39	0.57
44:FK:242:LEU:HD21	44:FK:251:ASP:CA	2.28	0.57
44:FK:414:GLU:OE1	44:FK:416:GLY:N	2.37	0.57
44:FM:64:ARG:HG2	44:FM:125:LEU:HD22	1.85	0.57
44:FM:71:GLU:HB3	44:FM:74:VAL:HG22	1.87	0.57
44:GA:11:GLN:HG3	44:GA:74:VAL:HG12	1.85	0.57
45:GB:376:GLU:HG3	45:GB:380:ARG:HH21	1.69	0.57
45:GB:421:GLU:HA	45:GB:424:GLN:CB	2.31	0.57
45:GD:8:GLN:HE21	45:GD:65:LEU:CG	2.16	0.57
45:GD:187:LEU:HD21	45:GD:408:PHE:CD1	2.40	0.57
45:GF:286:VAL:HG21	45:GF:325:GLU:HG3	1.86	0.57
45:GH:86:ARG:HA	45:HH:281:TYR:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:247:ASN:O	45:GH:252:LYS:NZ	2.26	0.57
44:GI:284:GLU:HG3	44:GI:286:LEU:CD2	2.31	0.57
44:GI:386:GLU:O	44:GI:390:ARG:HB2	2.04	0.57
45:GJ:178:THR:HB	45:GJ:181:GLU:CG	2.24	0.57
44:GK:311:LYS:NZ	44:GK:342:GLN:HG3	2.20	0.57
45:GL:178:THR:HG22	45:GL:180:VAL:HG12	1.87	0.57
44:HA:398:MET:CE	45:HB:345:ILE:HG13	2.34	0.57
45:HB:252:LYS:CA	45:HB:255:VAL:HG22	2.34	0.57
45:HB:271:ALA:N	45:HB:365:VAL:O	2.36	0.57
45:HB:383:GLU:HA	45:HB:386:THR:HG22	1.85	0.57
44:HC:224:TYR:HA	44:HC:227:LEU:HD12	1.86	0.57
44:HC:348:PRO:HB2	45:HF:384:GLN:OE1	2.05	0.57
45:HD:200:MET:N	45:HD:200:MET:SD	2.78	0.57
45:HD:238:CYS:HB2	45:HD:318:ARG:NE	2.20	0.57
45:HD:295:ASP:CG	45:HD:297:LYS:HG2	2.25	0.57
44:HE:183:GLU:N	44:HE:184:PRO:HD2	2.19	0.57
44:HG:179:THR:HG21	46:HG:501:GTP:H3'	1.85	0.57
44:HG:276:ILE:HD13	44:HG:281:ALA:HA	1.85	0.57
45:HH:285:THR:OG1	45:HH:287:PRO:HD2	2.04	0.57
44:HI:407:TRP:HZ3	45:HJ:255:VAL:HG22	1.70	0.57
45:HJ:3:GLU:HG3	45:HJ:62:ARG:NH1	2.20	0.57
45:HJ:308:GLY:HA3	45:HJ:372:THR:CG2	2.35	0.57
44:HK:9:VAL:HG12	44:HK:68:LEU:HB2	1.86	0.57
45:HL:73:MET:HE2	45:HL:92:PHE:HB3	1.86	0.57
44:HM:54:SER:HB3	44:HM:64:ARG:CZ	2.34	0.57
45:HN:3:GLU:OE1	45:HN:3:GLU:N	2.29	0.57
45:HN:221:THR:CG2	45:HN:224:ASP:H	2.17	0.57
44:IA:352:LYS:CD	45:ID:178:THR:HA	2.34	0.57
44:IC:7:ILE:HG13	44:IC:66:VAL:HG13	1.85	0.57
44:IC:79:ARG:HG2	44:IC:92:LEU:HD22	1.87	0.57
44:IC:326:LYS:O	44:IC:330:ALA:N	2.28	0.57
44:IE:68:LEU:HD21	44:IE:118:CYS:HB2	1.86	0.57
45:IF:7:ILE:O	45:IF:7:ILE:HG13	2.04	0.57
45:IF:162:ARG:HA	45:IF:162:ARG:NE	2.20	0.57
45:IF:260:PHE:HB3	45:IF:261:PRO:HD2	1.86	0.57
44:IG:31:GLN:NE2	44:IG:37:PRO:HA	2.19	0.57
44:IG:113:GLU:O	44:IG:114:ILE:HD13	2.04	0.57
44:IG:261:PRO:HA	45:IJ:394:PHE:HD2	1.68	0.57
44:IG:270:SER:HB3	44:IG:378:ILE:HG22	1.87	0.57
45:IH:309:ARG:NE	45:IH:342:VAL:HG22	2.18	0.57
45:IH:388:MET:HE2	45:IH:394:PHE:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IL:208:TYR:CZ	45:IL:225:LEU:HD11	2.40	0.57
45:IL:220:PRO:HA	45:IL:224:ASP:OD2	2.04	0.57
45:IN:28:HIS:ND1	45:IN:43:GLN:HA	2.19	0.57
45:IN:178:THR:N	45:IN:181:GLU:OE2	2.37	0.57
45:JB:58:ARG:HG2	45:KB:280:GLN:HE22	1.70	0.57
44:JC:183:GLU:N	44:JC:184:PRO:HD2	2.20	0.57
44:JC:269:LEU:HD23	44:JC:269:LEU:H	1.70	0.57
45:JD:282:ARG:NH1	45:JD:284:LEU:HD11	2.20	0.57
44:JE:67:PHE:C	44:JE:68:LEU:HD22	2.24	0.57
44:JE:269:LEU:HD22	44:JE:303:ALA:CB	2.34	0.57
44:JE:276:ILE:HD11	44:JE:280:LYS:HB2	1.85	0.57
45:JF:252:LYS:O	45:JF:256:ASN:HB2	2.03	0.57
45:JH:60:VAL:HG11	45:JH:86:ARG:NH1	2.19	0.57
44:JI:173:PRO:HG2	44:JI:391:LEU:HD11	1.87	0.57
45:JJ:200:MET:CE	45:JJ:268:ILE:HG21	2.35	0.57
44:JK:88:HIS:CG	44:JK:89:PRO:HD2	2.39	0.57
45:JN:61:PRO:HG3	45:JN:84:LEU:HB3	1.86	0.57
44:KA:12:GLY:O	44:KA:16:VAL:HG13	2.04	0.57
44:KC:291:ILE:HG13	44:KC:292:THR:N	2.20	0.57
44:KE:112:LYS:O	44:KE:115:VAL:HG12	2.05	0.57
45:KL:12:CYS:SG	45:KL:169:VAL:HG21	2.45	0.57
45:KL:130:LEU:HD12	45:KL:131:GLN:N	2.18	0.57
45:KL:181:GLU:HG2	45:KL:182:PRO:HD3	1.85	0.57
44:KM:185:TYR:HE1	44:KM:398:MET:HG3	1.69	0.57
44:LA:383:ALA:O	44:LA:386:GLU:HG2	2.03	0.57
44:LC:73:THR:OG1	45:LD:2:ARG:NH2	2.37	0.57
44:LC:254:GLU:CG	45:LF:98:GLY:HA2	2.33	0.57
45:LF:309:ARG:HH12	45:LF:426:GLN:NE2	2.03	0.57
45:LH:192:LEU:CD1	45:LH:196:ALA:HB2	2.35	0.57
44:LK:325:PRO:HB2	45:LN:208:TYR:CZ	2.39	0.57
45:LL:97:ALA:HB3	45:LL:143:THR:CB	2.28	0.57
44:LM:196:GLU:HG3	44:LM:196:GLU:O	2.04	0.57
45:MB:2:ARG:HB2	45:MB:131:GLN:OE1	2.04	0.57
44:MC:141:VAL:HG12	44:MC:171:ILE:O	2.03	0.57
45:MD:283:ALA:O	45:MD:288:GLU:HG2	2.05	0.57
45:MD:330:MET:CE	45:MD:349:ILE:HG21	2.35	0.57
44:ME:161:TYR:HB3	44:ME:164:LYS:CE	2.34	0.57
44:ME:191:THR:CB	44:ME:393:HIS:HB2	2.13	0.57
44:ME:223:THR:HB	45:MF:322:SER:C	2.25	0.57
44:ME:301:MET:HG3	44:ME:307:PRO:CG	2.35	0.57
44:MG:1:MET:CE	45:MJ:94:GLN:HG3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:86:ARG:HG2	45:MH:87:PRO:HD2	1.87	0.57
44:MK:319:TYR:O	44:MK:355:ILE:HA	2.04	0.57
45:ML:67:ASP:OD2	45:ML:72:THR:HG21	2.04	0.57
45:ML:304:ASP:OD1	45:ML:305:PRO:HD2	2.04	0.57
44:MM:109:THR:HG23	44:MM:110:ILE:N	2.19	0.57
44:NA:276:ILE:HB	44:NA:283:HIS:HE1	1.69	0.57
44:NC:326:LYS:HZ2	45:NF:220:PRO:HG2	1.70	0.57
45:ND:21:TRP:CH2	45:ND:61:PRO:HB3	2.40	0.57
45:ND:113:ILE:HD13	45:ND:150:LEU:HD22	1.87	0.57
44:NG:5:ILE:HD13	44:NG:132:LEU:CD1	2.35	0.57
45:NH:307:HIS:ND1	45:NH:376:GLU:OE2	2.38	0.57
45:NJ:49:VAL:HG11	45:NJ:241:ARG:CD	2.35	0.57
45:NJ:131:GLN:OE1	45:NJ:250:LEU:HD12	2.04	0.57
44:NK:202:VAL:HG12	44:NK:268:MET:HB3	1.86	0.57
44:NK:289:ALA:O	44:NK:292:THR:HG22	2.05	0.57
44:OA:273:ALA:HB1	44:OA:274:PRO:HA	1.85	0.57
44:OA:322:ASP:CG	44:OA:372:MET:HB3	2.24	0.57
44:OA:358:GLN:NE2	44:OA:359:PRO:HD2	2.19	0.57
44:OC:69:ASP:CB	44:OC:75:ILE:HD11	2.34	0.57
44:OE:248:LEU:HD11	45:OH:222:TYR:OH	2.05	0.57
44:OE:265:ILE:HG23	44:OE:432:TYR:CE1	2.32	0.57
44:OG:23:LEU:CD2	44:OG:236:SER:HB2	2.33	0.57
44:OG:100:ALA:CA	45:OH:252:LYS:HG2	2.34	0.57
45:OH:86:ARG:NE	45:PH:281:TYR:HB3	2.19	0.57
45:OH:330:MET:HA	45:OH:330:MET:CE	2.34	0.57
44:OI:11:GLN:O	44:OI:14:ILE:N	2.37	0.57
44:OK:256:GLN:HG3	45:ON:397:TRP:HZ2	1.70	0.57
44:OM:168:GLY:O	44:OM:202:VAL:HG22	2.04	0.57
44:PA:13:GLY:O	44:PA:16:VAL:HG12	2.04	0.57
45:PB:8:GLN:CD	45:PB:17:GLY:HA3	2.25	0.57
44:PG:100:ALA:O	45:PH:255:VAL:HG21	2.04	0.57
44:PG:248:LEU:HB3	44:PG:355:ILE:H	1.68	0.57
45:PH:382:ALA:O	45:PH:386:THR:HG23	2.05	0.57
45:PJ:1:MET:CE	45:PJ:129:CYS:HB3	2.34	0.57
45:PJ:134:GLN:HB3	45:PJ:165:GLU:HB2	1.85	0.57
45:PJ:239:CYS:SG	45:PJ:247:ASN:HA	2.44	0.57
45:PL:256:ASN:O	45:PL:257:LEU:HD12	2.04	0.57
45:PN:192:LEU:HD12	45:PN:196:ALA:HB2	1.85	0.57
45:PN:252:LYS:HA	45:PN:255:VAL:CG2	2.34	0.57
44:QA:71:GLU:OE1	44:QA:73:THR:HB	2.03	0.57
44:QC:326:LYS:O	44:QC:329:ASN:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:69:ASP:OD1	44:QI:70:LEU:N	2.37	0.57
44:QI:141:VAL:HG13	44:QI:187:SER:OG	2.05	0.57
45:QJ:217:LEU:HD11	45:QJ:220:PRO:HG3	1.87	0.57
44:QK:183:GLU:N	44:QK:184:PRO:HD2	2.20	0.57
44:QK:319:TYR:CE1	44:QK:375:VAL:HG21	2.39	0.57
45:QL:133:PHE:O	45:QL:165:GLU:HB2	2.04	0.57
45:QL:313:ALA:O	45:QL:350:LYS:N	2.36	0.57
45:QL:383:GLU:O	45:QL:386:THR:HG22	2.05	0.57
45:QL:404:ASP:OD1	45:QL:407:GLU:HG3	2.05	0.57
44:QM:171:ILE:CG1	44:QM:204:LEU:HB2	2.34	0.57
44:QM:213:CYS:O	44:QM:217:LEU:N	2.38	0.57
44:QM:268:MET:HE3	44:QM:378:ILE:HG23	1.87	0.57
45:QN:267:MET:SD	45:QN:299:MET:HB3	2.44	0.57
45:RB:2:ARG:HA	45:RB:129:CYS:O	2.05	0.57
45:RB:385:PHE:HA	45:RB:388:MET:CE	2.35	0.57
44:RC:208:ALA:O	44:RC:212:ILE:HD12	2.03	0.57
45:RF:114:ASP:OD1	45:RF:115:SER:N	2.38	0.57
45:RF:182:PRO:HB3	45:RF:384:GLN:OE1	2.04	0.57
45:RH:136:THR:HA	45:RH:167:PHE:HB2	1.86	0.57
44:RI:175:PRO:HD2	44:RI:207:GLU:OE2	2.04	0.57
45:RJ:20:PHE:HZ	45:RJ:50:TYR:CE2	2.23	0.57
45:RJ:21:TRP:CH2	45:RJ:61:PRO:HB3	2.38	0.57
45:RJ:315:ALA:N	45:RJ:350:LYS:O	2.33	0.57
45:RJ:324:LYS:HG3	44:RK:222:PRO:CD	2.14	0.57
44:RK:237:SER:HA	44:RK:320:ARG:NH1	2.19	0.57
44:RK:241:SER:N	44:RK:356:ASN:HD21	2.02	0.57
44:RK:358:GLN:OE1	44:RK:358:GLN:HA	2.03	0.57
45:RL:33:THR:O	45:RL:33:THR:HG22	2.05	0.57
45:RL:116:VAL:HA	45:RL:119:VAL:HG12	1.86	0.57
44:RM:188:ILE:CD1	44:RM:391:LEU:HB3	2.26	0.57
45:RN:6:HIS:HB3	45:RN:63:ALA:CA	2.34	0.57
45:RN:135:ILE:HG13	45:RN:152:ILE:CD1	2.28	0.57
44:SA:288:VAL:HA	44:SA:291:ILE:CG1	2.34	0.57
44:SA:293:ASN:OD1	44:SA:335:ILE:HD11	2.04	0.57
44:SC:26:LEU:O	44:SC:26:LEU:HD23	2.05	0.57
44:SG:9:VAL:HG21	44:SG:149:LEU:HB3	1.86	0.57
44:SG:188:ILE:HG22	44:SG:421:ALA:HB1	1.86	0.57
45:SH:300:MET:O	45:SH:300:MET:HG3	2.04	0.57
45:SJ:136:THR:HG22	45:SJ:167:PHE:HB2	1.87	0.57
45:SJ:254:ALA:HA	45:SJ:257:LEU:HG	1.87	0.57
44:SK:11:GLN:CG	44:SK:74:VAL:HG11	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:7:ILE:HB	45:SL:135:ILE:HD13	1.86	0.57
45:SL:190:HIS:O	45:SL:193:VAL:HG12	2.03	0.57
45:SN:257:LEU:HB3	45:SN:266:PHE:CZ	2.40	0.57
44:TA:13:GLY:HA3	44:TA:138:PHE:O	2.04	0.57
44:TA:167:LEU:HA	44:TA:200:VAL:HB	1.84	0.57
44:TC:115:VAL:HG21	44:TC:156:ARG:HD2	1.85	0.57
45:TD:221:THR:HG23	45:TD:223:GLY:N	2.17	0.57
44:TE:91:GLN:O	44:TE:93:ILE:HD12	2.04	0.57
45:TF:163:ILE:HD11	45:TF:250:LEU:HD12	1.86	0.57
45:TF:166:THR:OG1	45:TF:199:CYS:HA	2.05	0.57
45:TF:257:LEU:HA	45:TF:312:THR:HG21	1.87	0.57
44:TG:90:GLU:HB3	44:UG:280:LYS:HE3	1.85	0.57
44:TG:171:ILE:HG12	44:TG:204:LEU:HB2	1.85	0.57
44:TI:63:PRO:HG2	44:TI:86:LEU:CD1	2.34	0.57
44:TI:274:PRO:CG	44:TI:286:LEU:HD21	2.27	0.57
45:TJ:14:ASN:HD22	45:TJ:72:THR:CG2	2.18	0.57
44:TK:315:CYS:O	44:TK:351:PHE:HA	2.04	0.57
44:TM:145:THR:HG22	46:TM:501:GTP:O3G	2.04	0.57
44:UA:264:ARG:NH2	44:UA:428:LEU:HB2	2.20	0.57
44:UE:247:ALA:HB1	45:UF:222:TYR:CE2	2.39	0.57
44:UE:248:LEU:CD2	44:UE:353:VAL:HG13	2.33	0.57
45:UF:324:LYS:HD3	44:UG:210:TYR:CE1	2.39	0.57
44:UG:119:LEU:HA	44:UG:122:ILE:HG12	1.87	0.57
45:UH:221:THR:HG22	45:UH:224:ASP:OD2	2.05	0.57
44:UI:103:PHE:HB3	44:UI:408:TYR:CE2	2.39	0.57
45:UJ:22:GLU:HG2	45:UJ:81:PHE:CG	2.40	0.57
45:UJ:310:TYR:CD1	45:UJ:371:SER:HB2	2.38	0.57
45:UJ:423:GLN:O	45:UJ:426:GLN:HB3	2.05	0.57
45:UL:287:PRO:O	45:UL:290:THR:HG22	2.03	0.57
44:UM:5:ILE:HG23	44:UM:64:ARG:HB3	1.87	0.57
45:UN:415:MET:HE1	45:UN:418:LEU:HD23	1.87	0.57
44:VA:320:ARG:HG3	44:VA:360:PRO:CG	2.34	0.57
45:VB:320:ARG:NH1	45:VB:355:ASP:O	2.37	0.57
45:VD:280:GLN:HG3	45:VD:281:TYR:CD1	2.40	0.57
45:VF:211:CYS:SG	45:VF:225:LEU:HD23	2.45	0.57
44:VG:53:PHE:O	44:VG:64:ARG:NH2	2.38	0.57
45:VH:101:TRP:HB3	45:VH:398:TYR:HE1	1.70	0.57
45:VH:113:ILE:O	45:VH:116:VAL:HG12	2.05	0.57
45:VH:131:GLN:OE1	45:VH:250:LEU:HD12	2.04	0.57
44:VI:311:LYS:O	44:VI:381:SER:HA	2.05	0.57
45:VJ:5:VAL:HA	45:VJ:62:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:167:PHE:CZ	45:VJ:200:MET:HG3	2.39	0.57
44:VM:62:VAL:HG21	44:WM:283:HIS:O	2.04	0.57
44:VM:161:TYR:HB3	44:VM:164:LYS:CG	2.34	0.57
44:VM:390:ARG:HG3	44:VM:391:LEU:H	1.69	0.57
45:VN:3:GLU:O	45:VN:131:GLN:N	2.37	0.57
44:WA:11:GLN:NE2	45:WB:246:LEU:HA	2.20	0.57
45:WD:10:GLY:O	45:WD:14:ASN:N	2.25	0.57
45:WF:99:ASN:CB	45:WF:180:VAL:HG11	2.34	0.57
45:WJ:101:TRP:CE3	45:WJ:187:LEU:HD13	2.39	0.57
44:WK:93:ILE:CD1	44:WK:117:LEU:HD23	2.35	0.57
44:WK:108:TYR:O	44:WK:112:LYS:NZ	2.38	0.57
45:WL:270:PHE:CE2	45:WL:273:LEU:HD21	2.40	0.57
45:WN:132:GLY:HA2	45:WN:164:MET:HE2	1.85	0.57
3:0B:286:HIS:C	45:KL:276:ARG:HH22	2.08	0.57
10:0N:19:TRP:HZ2	44:IM:79:ARG:HH21	1.51	0.57
12:0S:103:LYS:CD	45:MB:261:PRO:HB3	2.33	0.57
15:0V:101:ILE:HD13	44:LM:415:GLU:HG3	1.86	0.57
2:1A:58:TYR:OH	45:MF:45:GLU:OE1	2.19	0.57
19:1I:167:ARG:NH2	44:KE:357:TYR:HB3	2.13	0.57
2:2A:138:TRP:HZ3	44:AI:81:GLY:HA2	1.69	0.57
6:2E:53:LYS:HE2	35:5R:382:TYR:CE1	2.39	0.57
12:2S:123:ALA:HB2	45:AJ:427:ASP:CB	2.30	0.57
16:4X:85:GLU:OE1	45:LJ:276:ARG:HD2	2.05	0.57
37:5C:126:ILE:HA	45:NL:276:ARG:NH2	2.20	0.57
37:5D:108:ARG:CG	44:NM:281:ALA:HB2	2.33	0.57
37:5D:114:PRO:CA	44:NM:372:MET:HB3	2.21	0.57
35:6R:397:SER:HG	45:EN:276:ARG:HE	1.50	0.57
35:7R:96:TYR:O	35:7R:180:ILE:HA	2.04	0.57
44:AA:395:PHE:CD1	44:AA:422:ARG:HD3	2.38	0.57
45:AB:1:MET:O	45:AB:49:VAL:HG22	2.04	0.57
44:AC:291:ILE:HG13	44:AC:292:THR:N	2.19	0.57
44:AE:3:GLU:CG	44:AE:129:CYS:HB3	2.35	0.57
44:AE:238:LEU:HD11	44:AE:255:PHE:CE2	2.39	0.57
45:AL:68:LEU:HD11	45:AL:108:GLU:HG3	1.87	0.57
44:AM:174:SER:HB2	44:AM:177:VAL:CG2	2.35	0.57
44:BA:344:VAL:HG11	44:BA:346:TRP:CZ2	2.39	0.57
44:BC:60:LYS:HD3	44:CC:283:HIS:CD2	2.40	0.57
44:BC:166:LYS:C	44:BC:167:LEU:HD12	2.24	0.57
44:BC:326:LYS:HE2	45:BF:219:THR:HA	1.84	0.57
44:BE:315:CYS:N	44:BE:350:GLY:O	2.29	0.57
44:BM:72:PRO:HG2	45:BN:46:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:386:GLU:HA	44:BM:389:SER:OG	2.04	0.57
44:CA:68:LEU:HD21	44:CA:118:CYS:HB2	1.86	0.57
44:CA:101:ASN:HA	46:CA:501:GTP:O2G	2.05	0.57
45:CB:67:ASP:OD1	45:CB:69:GLU:O	2.22	0.57
45:CD:254:ALA:HB1	44:CE:407:TRP:HH2	1.70	0.57
45:CD:260:PHE:HE2	44:CE:403:ALA:HA	1.70	0.57
45:CD:262:ARG:CG	45:CD:263:LEU:HD12	2.30	0.57
45:CF:260:PHE:HB3	45:CF:261:PRO:HD2	1.86	0.57
45:CF:319:GLY:CA	45:CF:357:PRO:HG3	2.34	0.57
44:CG:128:ASN:HD21	44:DG:285:GLN:NE2	2.01	0.57
45:CH:62:ARG:NH1	45:CH:62:ARG:HB3	2.19	0.57
44:CM:4:VAL:HG12	44:CM:51:THR:CG2	2.35	0.57
44:CM:384:ILE:CD1	44:CM:387:VAL:HG21	2.35	0.57
45:DB:296:ALA:HA	45:DB:305:PRO:HG2	1.86	0.57
45:DF:330:MET:CE	45:DF:330:MET:HA	2.34	0.57
45:DH:114:ASP:OD1	45:DH:115:SER:N	2.37	0.57
44:DI:119:LEU:HA	44:DI:122:ILE:HD13	1.87	0.57
44:DI:276:ILE:HD11	44:DI:280:LYS:O	2.05	0.57
44:DK:88:HIS:ND1	44:DK:89:PRO:HD2	2.19	0.57
44:DK:191:THR:HG21	44:DK:425:LEU:HD21	1.86	0.57
44:DK:230:LEU:HD12	44:DK:275:ILE:CD1	2.34	0.57
45:DL:344:TRP:CE3	45:DL:345:ILE:HB	2.38	0.57
45:DN:104:GLY:O	45:DN:147:MET:HE2	2.04	0.57
44:EA:319:TYR:HB2	44:EA:355:ILE:CA	2.28	0.57
45:EB:116:VAL:HA	45:EB:119:VAL:HG12	1.86	0.57
45:ED:289:LEU:HD11	45:ED:363:MET:SD	2.45	0.57
45:ED:377:MET:HA	45:ED:380:ARG:CG	2.34	0.57
45:EH:336:LYS:HE2	45:EH:336:LYS:HA	1.86	0.57
44:EI:66:VAL:HG11	44:EI:121:ARG:HG3	1.85	0.57
44:EI:237:SER:HA	44:EI:320:ARG:NH1	2.16	0.57
45:EJ:217:LEU:HD12	45:EJ:217:LEU:O	2.03	0.57
44:EK:416:GLY:O	44:EK:419:SER:N	2.38	0.57
45:EL:262:ARG:HA	45:EL:264:HIS:HD2	1.70	0.57
44:EM:275:ILE:HG23	44:EM:368:LEU:CD1	2.34	0.57
45:EN:316:LEU:HG	45:EN:352:SER:HB2	1.86	0.57
44:FA:100:ALA:O	45:FB:255:VAL:HG21	2.05	0.57
44:FA:174:SER:OG	44:FA:207:GLU:HB2	2.04	0.57
44:FE:17:GLY:HA2	44:FE:20:CYS:SG	2.44	0.57
44:FE:288:VAL:HA	44:FE:291:ILE:CG1	2.34	0.57
45:FH:7:ILE:HG12	45:FH:64:ILE:HD13	1.86	0.57
45:FH:64:ILE:HA	45:FH:90:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:193:VAL:HA	45:FH:264:HIS:CE1	2.40	0.57
45:FJ:86:ARG:CZ	45:GJ:281:TYR:HB2	2.34	0.57
45:FJ:318:ARG:NE	45:FJ:358:PRO:HG3	2.20	0.57
44:FK:141:VAL:CA	44:FK:147:SER:HB3	2.31	0.57
44:FK:223:THR:CA	45:FL:322:SER:HB2	2.34	0.57
45:FN:103:LYS:O	45:FN:108:GLU:HB2	2.05	0.57
45:FN:342:VAL:HG11	45:FN:345:ILE:CG2	2.35	0.57
44:GA:257:THR:HG22	45:GD:397:TRP:CZ3	2.39	0.57
44:GA:420:GLU:HA	44:GA:423:GLU:CG	2.33	0.57
45:GB:116:VAL:O	45:GB:120:VAL:HG23	2.04	0.57
44:GC:141:VAL:HG12	44:GC:171:ILE:O	2.04	0.57
45:GD:178:THR:HG22	45:GD:180:VAL:HG12	1.85	0.57
44:GE:18:ASN:O	44:GE:22:GLU:OE1	2.22	0.57
44:GE:402:ARG:HB2	44:GE:405:VAL:CG2	2.34	0.57
45:GF:117:LEU:HA	45:GF:120:VAL:CG1	2.33	0.57
45:GF:173:PRO:CD	45:GF:380:ARG:HH11	2.16	0.57
44:GG:66:VAL:CG1	44:GG:125:LEU:HD11	2.35	0.57
45:GH:206:ALA:O	45:GH:210:ILE:HG13	2.05	0.57
45:GJ:332:ASN:OD1	45:GJ:333:VAL:N	2.38	0.57
44:GK:91:GLN:HG3	44:GK:92:LEU:HD12	1.87	0.57
44:GM:268:MET:HB2	44:GM:380:ASN:HA	1.84	0.57
44:HA:123:ARG:NH2	44:HA:161:TYR:OH	2.37	0.57
45:HB:36:TYR:CE1	45:HB:44:LEU:HG	2.40	0.57
45:HB:372:THR:HG21	45:HB:426:GLN:HB2	1.87	0.57
44:HC:265:ILE:HG12	44:HC:432:TYR:CE1	2.38	0.57
45:HD:5:VAL:HG12	45:HD:133:PHE:CD1	2.38	0.57
45:HF:425:TYR:HA	45:HF:428:ALA:HB2	1.87	0.57
44:HG:183:GLU:N	44:HG:184:PRO:HD2	2.19	0.57
44:HG:205:ASP:OD1	44:HG:303:ALA:HA	2.04	0.57
45:HH:77:ARG:HG3	45:HH:90:PHE:CZ	2.40	0.57
45:HJ:1:MET:O	45:HJ:2:ARG:HG2	2.04	0.57
45:HJ:390:ARG:O	45:HJ:392:LYS:NZ	2.37	0.57
44:HK:210:TYR:CE1	44:HK:227:LEU:HD21	2.39	0.57
44:HK:264:ARG:HA	44:HK:264:ARG:HH11	1.69	0.57
44:HK:332:ILE:HG22	44:HK:336:LYS:HG3	1.86	0.57
44:HK:363:VAL:HG23	44:HK:364:PRO:HD2	1.86	0.57
45:HN:77:ARG:O	45:HN:82:GLY:HA3	2.04	0.57
44:IA:79:ARG:O	44:IA:84:ARG:HD2	2.05	0.57
44:IA:311:LYS:HB2	44:IA:382:THR:HG21	1.87	0.57
45:IB:295:ASP:OD1	45:IB:297:LYS:HG2	2.05	0.57
44:IC:215:ARG:HH22	44:IC:300:ASN:ND2	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:217:LEU:HD13	44:IE:367:ASP:HB3	1.86	0.57
45:IF:266:PHE:CD1	45:IF:370:ASN:HB2	2.39	0.57
44:IG:257:THR:HA	45:IJ:397:TRP:CZ2	2.40	0.57
45:IH:86:ARG:HD2	44:JE:283:HIS:CB	2.35	0.57
45:IH:112:LEU:O	45:IH:112:LEU:HD23	2.03	0.57
45:IH:345:ILE:O	45:IH:345:ILE:HG23	2.03	0.57
45:IJ:116:VAL:O	45:IJ:119:VAL:HG22	2.04	0.57
44:IK:2:ARG:HB2	44:IK:133:GLN:CG	2.34	0.57
44:IK:262:TYR:HB3	44:IK:263:PRO:HD2	1.87	0.57
44:IK:291:ILE:HG13	44:IK:292:THR:N	2.19	0.57
44:IK:319:TYR:N	44:IK:354:GLY:O	2.23	0.57
44:JC:115:VAL:HG11	44:JC:152:LEU:HD21	1.86	0.57
44:JE:107:HIS:CD2	44:JE:152:LEU:HB2	2.40	0.57
45:JJ:95:THR:HG21	45:JJ:108:GLU:OE1	2.05	0.57
45:JJ:407:GLU:HA	45:JJ:410:GLU:HB2	1.86	0.57
44:JK:276:ILE:HD11	44:JK:280:LYS:HG3	1.86	0.57
44:JM:56:THR:CB	44:JM:60:LYS:HE3	2.34	0.57
45:KD:3:GLU:OE2	45:KD:128:ASP:N	2.38	0.57
44:KG:98:ASP:OD1	44:KG:99:ALA:N	2.38	0.57
44:KG:339:ARG:O	44:KG:339:ARG:HG3	2.03	0.57
45:KH:36:TYR:CD1	45:KH:44:LEU:HD12	2.39	0.57
45:KH:423:GLN:HA	45:KH:423:GLN:OE1	2.04	0.57
44:KI:216:ASN:HB2	44:KI:275:ILE:O	2.05	0.57
44:KI:286:LEU:N	44:KI:290:GLU:OE2	2.37	0.57
44:KM:274:PRO:HD3	44:KM:374:ALA:HB2	1.86	0.57
45:KN:185:ALA:O	45:KN:189:VAL:HG23	2.05	0.57
45:LB:310:TYR:HB2	45:LB:341:PHE:CD1	2.40	0.57
45:LD:252:LYS:HG2	45:LD:350:LYS:NZ	2.19	0.57
44:LE:101:ASN:OD1	45:LF:252:LYS:HG3	2.04	0.57
44:LE:199:ASP:O	44:LE:266:HIS:HB2	2.04	0.57
45:LF:152:ILE:HA	45:LF:155:VAL:HG22	1.87	0.57
45:LH:68:LEU:HD23	45:LH:97:ALA:HB2	1.86	0.57
44:LI:54:SER:HB3	44:LI:64:ARG:CZ	2.34	0.57
45:LJ:100:ASN:OD1	45:LJ:103:LYS:HG3	2.04	0.57
44:LM:54:SER:HB3	44:LM:64:ARG:HH12	1.70	0.57
44:LM:175:PRO:HG3	44:LM:390:ARG:NH2	2.19	0.57
44:LM:288:VAL:CG2	44:LM:323:VAL:HG13	2.30	0.57
44:MA:241:SER:OG	44:MA:250:VAL:O	2.12	0.57
45:MF:262:ARG:HH11	45:MF:262:ARG:HG3	1.68	0.57
44:MG:271:SER:C	44:MG:302:MET:HE1	2.24	0.57
45:MH:31:ASP:OD2	45:MH:37:HIS:ND1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:77:GLU:OE2	45:ML:243:PRO:HG3	2.05	0.57
44:MK:115:VAL:O	44:MK:119:LEU:HD23	2.03	0.57
44:MM:1:MET:C	44:MM:2:ARG:HD3	2.25	0.57
45:MN:221:THR:HG23	45:MN:223:GLY:H	1.70	0.57
45:NB:51:TYR:HE2	45:NB:61:PRO:HG3	1.69	0.57
44:NC:171:ILE:HD13	44:NC:204:LEU:HB3	1.87	0.57
44:NC:177:VAL:CG1	45:ND:331:LEU:HD22	2.34	0.57
45:ND:343:GLU:HG2	45:ND:430:ALA:HB2	1.87	0.57
44:NE:73:THR:CG2	45:NF:243:PRO:HA	2.35	0.57
44:NE:209:ILE:HA	44:NE:212:ILE:HG22	1.86	0.57
44:NE:250:VAL:HG21	44:NE:352:LYS:NZ	2.19	0.57
45:NH:100:ASN:ND2	45:NH:103:LYS:HB2	2.19	0.57
45:NH:101:TRP:CH2	45:NH:187:LEU:HD13	2.39	0.57
45:NJ:199:CYS:HB3	45:NJ:265:PHE:CD1	2.39	0.57
44:NM:230:LEU:O	44:NM:234:VAL:HG23	2.05	0.57
44:OA:268:MET:SD	44:OA:380:ASN:HA	2.45	0.57
44:OA:332:ILE:HG23	44:OA:351:PHE:CD2	2.40	0.57
45:OB:328:GLU:HA	45:OB:331:LEU:HB2	1.86	0.57
44:OC:253:THR:O	44:OC:257:THR:HG23	2.05	0.57
44:OC:292:THR:HG21	44:OC:331:SER:HB3	1.86	0.57
45:OF:156:ARG:HD3	45:OF:195:ASN:HB3	1.85	0.57
45:OH:4:ILE:HG22	45:OH:50:TYR:CE1	2.40	0.57
45:OH:65:LEU:HD11	45:OH:85:PHE:CD1	2.39	0.57
45:OH:170:VAL:CG2	45:OH:171:PRO:HD2	2.35	0.57
45:OH:342:VAL:HG13	45:OH:345:ILE:HG12	1.86	0.57
44:OK:51:THR:HG23	44:OK:52:PHE:CD2	2.39	0.57
45:OL:246:LEU:HD21	46:OL:501:GTP:H8	1.69	0.57
44:OM:137:VAL:HG23	44:OM:168:GLY:HA2	1.86	0.57
45:ON:173:PRO:HG2	45:ON:380:ARG:HD3	1.84	0.57
45:ON:304:ASP:OD1	45:ON:305:PRO:HD2	2.04	0.57
44:PA:96:LYS:HA	45:PB:1:MET:CE	2.34	0.57
45:PB:233:MET:O	45:PB:237:THR:HG22	2.04	0.57
44:PE:71:GLU:OE1	44:PE:73:THR:HB	2.04	0.57
45:PF:344:TRP:CB	45:PF:430:ALA:HB2	2.29	0.57
44:PK:419:SER:O	44:PK:422:ARG:HB2	2.05	0.57
45:PN:61:PRO:HD2	45:PN:84:LEU:O	2.05	0.57
45:PN:272:PRO:HD3	45:PN:364:ALA:HA	1.86	0.57
44:QA:320:ARG:CG	44:QA:374:ALA:HB3	2.33	0.57
45:QD:178:THR:HB	45:QD:181:GLU:HG3	1.86	0.57
45:QD:380:ARG:HA	45:QD:383:GLU:HB3	1.87	0.57
44:QG:238:LEU:HD11	44:QG:255:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:260:VAL:O	44:QG:260:VAL:HG23	2.03	0.57
45:QH:318:ARG:HH11	45:QH:358:PRO:CG	2.18	0.57
45:QJ:101:TRP:H	45:QJ:398:TYR:HE1	1.52	0.57
44:RA:231:ILE:O	44:RA:235:ILE:HG12	2.03	0.57
45:RB:102:ALA:HB2	45:RB:403:MET:HE1	1.85	0.57
45:RF:36:TYR:CZ	45:RF:38:GLY:HA3	2.40	0.57
45:RF:178:THR:CG2	45:RF:180:VAL:HG12	2.35	0.57
44:RG:326:LYS:HB2	45:RH:212:PHE:CZ	2.40	0.57
44:RI:276:ILE:O	44:RI:368:LEU:HA	2.05	0.57
44:RI:348:PRO:HG3	45:RJ:384:GLN:CA	2.35	0.57
45:RJ:70:PRO:O	45:RJ:74:ASP:N	2.36	0.57
45:RJ:135:ILE:HB	45:RJ:166:THR:CG2	2.27	0.57
44:RM:314:ALA:HB3	44:RM:380:ASN:HB3	1.86	0.57
44:RM:439:THR:CG2	45:RN:390:ARG:HH21	2.17	0.57
45:RN:8:GLN:NE2	45:RN:65:LEU:HG	2.20	0.57
44:SC:270:SER:CB	44:SC:378:ILE:HD13	2.34	0.57
44:SG:224:TYR:CD1	44:SG:227:LEU:HD12	2.40	0.57
45:SH:42:LEU:HA	45:SH:45:GLU:CG	2.27	0.57
44:SK:89:PRO:HB2	44:TK:280:LYS:CE	2.33	0.57
44:SK:132:LEU:HD22	44:SK:164:LYS:HD2	1.86	0.57
44:SK:187:SER:HA	44:SK:190:SER:OG	2.05	0.57
44:SM:188:ILE:HD12	44:SM:425:LEU:CD1	2.23	0.57
45:SN:304:ASP:OD1	45:SN:305:PRO:HD2	2.04	0.57
44:TA:170:THR:O	44:TA:204:LEU:HB2	2.05	0.57
44:TA:258:ASN:OD1	45:TB:179:VAL:HG22	2.04	0.57
44:TA:312:TYR:O	44:TA:344:VAL:HG13	2.05	0.57
45:TB:47:ILE:HD13	45:TB:59:TYR:CE2	2.39	0.57
45:TB:231:ALA:HB1	45:TB:270:PHE:CE2	2.39	0.57
44:TE:185:TYR:HE2	44:TE:404:PHE:HB2	1.70	0.57
45:TH:117:LEU:CA	45:TH:120:VAL:HG22	2.34	0.57
45:TH:135:ILE:N	45:TH:165:GLU:O	2.30	0.57
45:TH:286:VAL:HG12	45:TH:329:GLN:HG3	1.86	0.57
45:TJ:7:ILE:CD1	45:TJ:120:VAL:HG22	2.35	0.57
45:TJ:286:VAL:HG23	45:TJ:321:MET:HE2	1.86	0.57
45:TJ:323:THR:HG21	44:TK:224:TYR:CD2	2.40	0.57
45:TJ:375:GLN:O	45:TJ:379:LYS:HG3	2.05	0.57
44:TM:22:GLU:HG3	44:TM:83:TYR:HE2	1.68	0.57
44:TM:54:SER:HB3	44:TM:64:ARG:HH12	1.70	0.57
44:TM:268:MET:HE1	44:TM:380:ASN:CA	2.30	0.57
44:TM:268:MET:HE1	44:TM:379:SER:O	2.04	0.57
45:TN:127:CYS:SG	45:TN:130:LEU:HB2	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:70:LEU:HD12	44:UA:145:THR:OG1	2.04	0.57
45:UB:242:PHE:CD1	45:UB:356:ILE:HG13	2.40	0.57
44:UC:107:HIS:O	44:UC:107:HIS:ND1	2.38	0.57
45:UD:396:HIS:O	45:UD:400:GLY:N	2.37	0.57
44:UE:271:SER:O	44:UE:377:MET:N	2.34	0.57
45:UF:330:MET:HG2	45:UF:349:ILE:CG2	2.33	0.57
45:UF:403:MET:HE3	45:UF:407:GLU:HB2	1.87	0.57
44:UG:89:PRO:HG3	44:VE:280:LYS:NZ	2.20	0.57
44:UG:296:PHE:HD2	44:UG:335:ILE:HD12	1.68	0.57
45:UJ:49:VAL:HG21	45:UJ:241:ARG:CG	2.34	0.57
44:UK:189:LEU:HD11	44:UK:418:PHE:CE1	2.39	0.57
44:UK:263:PRO:HD3	45:UL:396:HIS:CE1	2.40	0.57
44:UK:356:ASN:OD1	44:UK:357:TYR:N	2.34	0.57
45:UL:325:GLU:O	45:UL:329:GLN:HB2	2.04	0.57
45:UN:4:ILE:HG22	45:UN:5:VAL:O	2.03	0.57
44:VA:146:GLY:N	46:VA:501:GTP:O1B	2.36	0.57
44:VA:276:ILE:HD13	44:VA:281:ALA:HA	1.87	0.57
44:VA:326:LYS:HG3	45:VD:212:PHE:HE2	1.68	0.57
45:VB:2:ARG:NH2	45:VB:240:LEU:HG	2.17	0.57
45:VB:51:TYR:CE1	45:VB:61:PRO:HG3	2.39	0.57
45:VB:227:HIS:O	45:VB:230:SER:HB2	2.02	0.57
44:VC:236:SER:O	44:VC:239:THR:HG22	2.04	0.57
45:VD:253:LEU:O	45:VD:257:LEU:HD13	2.05	0.57
45:VF:22:GLU:HG2	45:VF:81:PHE:CD1	2.40	0.57
45:VF:252:LYS:O	45:VF:255:VAL:N	2.37	0.57
45:VF:398:TYR:HB3	45:VF:403:MET:HG3	1.86	0.57
44:VG:333:ALA:CA	44:VG:336:LYS:HB2	2.33	0.57
45:VH:86:ARG:NE	45:VH:87:PRO:HD2	2.19	0.57
45:VH:309:ARG:CZ	45:VH:342:VAL:HG23	2.34	0.57
44:VI:60:LYS:NZ	44:VI:86:LEU:HA	2.19	0.57
44:VI:188:ILE:HD12	44:VI:425:LEU:CD1	2.34	0.57
45:VJ:2:ARG:NH2	45:VJ:240:LEU:O	2.38	0.57
44:VK:12:GLY:O	44:VK:16:VAL:HG22	2.05	0.57
44:VK:238:LEU:O	44:VK:238:LEU:HD23	2.05	0.57
45:VL:207:LEU:HG	45:VL:300:MET:CE	2.34	0.57
45:VN:62:ARG:NH1	45:VN:62:ARG:HG3	2.19	0.57
45:VN:268:ILE:CG2	45:VN:368:VAL:HG22	2.35	0.57
45:WB:25:SER:CB	45:WB:30:ILE:HB	2.34	0.57
45:WB:105:HIS:CE1	45:WB:150:LEU:HD12	2.40	0.57
44:WE:97:GLU:HG2	44:WE:105:ARG:HH22	1.69	0.57
44:WE:236:SER:O	44:WE:240:ALA:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:404:PHE:CE2	45:WF:259:PRO:HA	2.40	0.57
45:WF:199:CYS:O	45:WF:265:PHE:HA	2.04	0.57
44:WG:184:PRO:O	44:WG:188:ILE:HG12	2.04	0.57
44:WI:294:SER:HA	44:WI:297:GLU:OE2	2.04	0.57
45:WL:184:ASN:OD1	45:WL:185:ALA:N	2.37	0.57
44:WM:284:GLU:HB2	44:WM:286:LEU:HB3	1.86	0.57
3:0B:288:ILE:HG12	45:KL:279:GLN:HG3	1.87	0.57
20:1J:142:VAL:CG2	44:IE:285:GLN:HG3	2.35	0.57
12:1S:43:TYR:OH	44:WC:121:ARG:HD2	2.04	0.57
13:1T:132:PRO:HG3	44:MC:161:TYR:CE1	2.39	0.57
2:2A:17:GLN:NE2	35:5R:46:GLU:O	2.37	0.57
5:2D:75:ASP:CG	45:EJ:362:LYS:HG3	2.25	0.57
22:2L:662:THR:HG21	44:CM:279:GLU:CD	2.23	0.57
22:2L:753:ARG:HG3	45:BL:362:LYS:NZ	2.19	0.57
13:2T:225:SER:HB2	44:MG:196:GLU:CD	2.23	0.57
16:2X:103:ASN:HB2	44:MG:282:TYR:CE2	2.39	0.57
32:3I:246:ALA:N	44:GI:211:ASP:OD1	2.21	0.57
16:3X:90:ARG:CZ	35:6R:48:LYS:O	2.52	0.57
34:4F:209:PHE:HB2	45:HN:48:ASN:ND2	2.02	0.57
31:4H:196:SER:HA	45:AL:40:SER:HB2	1.87	0.57
38:5E:91:ASN:N	45:KB:194:GLU:OE2	2.38	0.57
41:6G:92:LEU:HD21	44:UK:96:LYS:HD3	1.86	0.57
35:6R:476:HIS:CE1	35:6R:498:LEU:HB3	2.37	0.57
35:7R:361:LEU:HD13	35:7R:367:GLN:HB3	1.86	0.57
42:8N:347:UNK:CA	42:8N:351:UNK:HA	2.35	0.57
44:AA:132:LEU:HD23	44:AA:164:LYS:HE3	1.86	0.57
44:AC:317:MET:HE1	44:AC:351:PHE:CE2	2.40	0.57
45:AD:142:GLY:O	45:AD:145:SER:N	2.37	0.57
44:AE:224:TYR:HD1	44:AE:227:LEU:HD12	1.69	0.57
44:AG:2:ARG:H	44:AG:2:ARG:HD3	1.70	0.57
44:AG:289:ALA:O	44:AG:292:THR:HG22	2.04	0.57
45:AH:276:ARG:NH1	45:AH:276:ARG:O	2.38	0.57
45:AH:360:GLY:O	45:AH:361:LEU:HD23	2.05	0.57
44:AK:328:VAL:HG11	44:AK:353:VAL:CG2	2.31	0.57
45:AN:113:ILE:HA	45:AN:116:VAL:CG1	2.34	0.57
44:BA:317:MET:HE2	44:BA:319:TYR:CE1	2.39	0.57
44:BA:407:TRP:CZ3	45:BB:255:VAL:CB	2.71	0.57
45:BD:86:ARG:HB2	45:BD:89:ASN:CG	2.25	0.57
45:BF:217:LEU:HD13	45:BF:220:PRO:HB3	1.86	0.57
44:BG:275:ILE:HD12	44:BG:368:LEU:CD2	2.35	0.57
44:BI:93:ILE:HD12	44:BI:93:ILE:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:89:ASN:ND2	45:BJ:119:VAL:HG21	2.19	0.57
44:BK:221:ARG:HH22	45:BL:321:MET:HB2	1.69	0.57
44:BK:229:ARG:HH21	44:BK:363:VAL:CG1	2.18	0.57
44:BK:296:PHE:CE2	44:BK:335:ILE:HG21	2.40	0.57
45:BL:36:TYR:CZ	45:BL:38:GLY:HA3	2.38	0.57
45:BN:217:LEU:HD11	45:BN:220:PRO:CB	2.28	0.57
44:CA:73:THR:O	44:CA:76:ASP:HB2	2.04	0.57
44:CA:352:LYS:HD2	45:CB:177:ASP:O	2.05	0.57
45:CB:315:ALA:O	45:CB:352:SER:N	2.38	0.57
44:CC:8:HIS:HD2	44:CC:138:PHE:HB2	1.67	0.57
44:CG:258:ASN:HD21	44:CG:352:LYS:HZ2	1.52	0.57
44:CG:324:VAL:CG2	44:CG:327:ASP:HB2	2.35	0.57
44:CG:422:ARG:HH12	44:CG:426:ALA:HB2	1.69	0.57
45:CH:113:ILE:CD1	45:CH:150:LEU:HD22	2.34	0.57
45:CH:231:ALA:HB1	45:CH:270:PHE:CE2	2.40	0.57
45:CL:46:ARG:O	45:CL:49:VAL:HG23	2.03	0.57
45:CL:253:LEU:O	45:CL:257:LEU:HD13	2.05	0.57
45:CL:346:PRO:HG2	44:CM:394:LYS:NZ	2.19	0.57
45:CL:390:ARG:O	45:CL:391:ARG:HD2	2.05	0.57
44:CM:188:ILE:HG23	44:CM:425:LEU:HD12	1.86	0.57
44:CM:214:ARG:O	44:CM:218:ASP:HA	2.05	0.57
44:CM:259:LEU:CD1	44:CM:378:ILE:HG21	2.34	0.57
45:CN:318:ARG:HG2	45:CN:354:CYS:SG	2.45	0.57
44:DA:319:TYR:HB2	44:DA:354:GLY:O	2.05	0.57
45:DB:3:GLU:HG3	45:DB:129:CYS:O	2.05	0.57
45:DD:67:ASP:OD2	45:DD:72:THR:HG21	2.04	0.57
44:DE:36:MET:HG3	44:DE:38:SER:H	1.69	0.57
44:DE:280:LYS:O	44:DE:280:LYS:HG2	2.04	0.57
44:DE:311:LYS:HE2	44:DE:344:VAL:HA	1.85	0.57
44:DG:269:LEU:HD23	44:DG:379:SER:O	2.05	0.57
44:DI:13:GLY:HA2	44:DI:16:VAL:CG1	2.35	0.57
44:DK:51:THR:HG22	44:DK:52:PHE:HD1	1.69	0.57
44:DK:106:GLY:HA2	44:DK:110:ILE:HG13	1.86	0.57
45:DL:161:ASP:O	45:DL:162:ARG:NH2	2.38	0.57
45:DL:257:LEU:HD11	45:DL:314:SER:CB	2.34	0.57
44:DM:202:VAL:HG22	44:DM:268:MET:SD	2.45	0.57
44:DM:275:ILE:HA	44:DM:368:LEU:HD11	1.85	0.57
45:DN:130:LEU:HG	45:DN:162:ARG:HD2	1.86	0.57
45:DN:196:ALA:HB3	45:DN:264:HIS:ND1	2.18	0.57
44:EA:407:TRP:O	44:EA:411:GLU:HG2	2.04	0.57
45:EB:86:ARG:HD2	45:EB:89:ASN:OD1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:238:CYS:HB2	45:EB:318:ARG:NE	2.20	0.57
44:EC:137:VAL:CG1	44:EC:168:GLY:HA2	2.35	0.57
44:EC:191:THR:HA	44:EC:194:LEU:HG	1.87	0.57
44:EC:200:VAL:HG13	44:EC:268:MET:CE	2.35	0.57
44:EE:271:SER:HB3	44:EE:300:ASN:O	2.04	0.57
45:EF:11:GLN:O	45:EF:14:ASN:N	2.38	0.57
45:EF:42:LEU:CA	45:EF:45:GLU:HG3	2.21	0.57
44:EG:11:GLN:HG3	44:EG:74:VAL:HG11	1.87	0.57
44:EI:27:GLU:HA	44:EI:361:THR:HG21	1.85	0.57
44:EI:31:GLN:HG3	44:EI:36:MET:O	2.05	0.57
44:EI:310:GLY:C	44:EI:311:LYS:HD3	2.25	0.57
45:EJ:40:SER:O	45:EJ:43:GLN:HB2	2.05	0.57
45:EL:137:HIS:CE1	45:EL:139:LEU:HD12	2.40	0.57
45:EL:378:PHE:HB2	45:EL:419:VAL:CG2	2.35	0.57
44:EM:36:MET:CB	44:EM:37:PRO:HD3	2.31	0.57
44:EM:230:LEU:HA	44:EM:233:GLN:OE1	2.05	0.57
44:EM:271:SER:OG	44:EM:301:MET:HA	2.05	0.57
45:EN:131:GLN:O	45:EN:162:ARG:NE	2.37	0.57
45:EN:404:ASP:OD1	45:EN:406:MET:HB3	2.04	0.57
45:EN:418:LEU:HA	45:EN:421:GLU:HB2	1.87	0.57
44:FA:167:LEU:HD21	44:FA:255:PHE:CE2	2.40	0.57
44:FA:175:PRO:HG3	44:FA:387:VAL:HG12	1.86	0.57
44:FA:325:PRO:HG3	45:FD:222:TYR:OH	2.05	0.57
45:FB:117:LEU:HD22	45:FB:154:LYS:HD3	1.87	0.57
45:FB:323:THR:HA	45:FB:326:VAL:HG23	1.86	0.57
44:FC:316:SER:HB2	44:FC:352:LYS:HB3	1.87	0.57
45:FH:2:ARG:NH2	45:FH:240:LEU:HG	2.20	0.57
44:FK:273:ALA:N	44:FK:375:VAL:O	2.29	0.57
45:FL:101:TRP:HE1	45:FL:146:GLY:HA3	1.70	0.57
45:FL:306:ARG:HB2	45:FL:340:TYR:CE1	2.40	0.57
45:FN:28:HIS:ND1	45:FN:43:GLN:HA	2.20	0.57
45:FN:47:ILE:HD13	45:FN:59:TYR:HE2	1.69	0.57
44:GA:181:VAL:HG22	45:GB:256:ASN:OD1	2.04	0.57
44:GA:272:TYR:HD1	44:GA:376:CYS:HB2	1.70	0.57
44:GA:286:LEU:N	44:GA:290:GLU:OE2	2.38	0.57
44:GA:433:GLU:O	44:GA:437:ILE:HG23	2.05	0.57
44:GC:137:VAL:HG23	44:GC:168:GLY:HA2	1.87	0.57
44:GC:363:VAL:CG2	44:GC:364:PRO:HD2	2.34	0.57
45:GD:330:MET:HE3	45:GD:349:ILE:CG2	2.34	0.57
45:GF:101:TRP:HZ3	45:GF:403:MET:CE	2.18	0.57
45:GF:103:LYS:HG3	45:GF:107:THR:OG1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:113:ILE:O	45:GF:116:VAL:HG12	2.05	0.57
44:GI:174:SER:C	44:GI:304:LYS:HZ3	2.08	0.57
45:GL:143:THR:HG23	45:GL:144:GLY:H	1.70	0.57
45:GL:187:LEU:HD23	45:GL:411:ALA:CB	2.35	0.57
44:GM:176:GLN:CD	45:GN:331:LEU:HD13	2.25	0.57
45:GN:31:ASP:HB2	45:GN:35:THR:CG2	2.31	0.57
45:GN:304:ASP:OD1	45:GN:306:ARG:HG2	2.04	0.57
45:HD:257:LEU:HD21	45:HD:314:SER:OG	2.04	0.57
44:HE:268:MET:HB2	44:HE:379:SER:C	2.24	0.57
45:HH:268:ILE:CG2	45:HH:368:VAL:HG22	2.35	0.57
44:HI:155:GLU:HA	44:HI:197:HIS:CE1	2.40	0.57
44:HK:393:HIS:O	44:HK:397:LEU:HG	2.05	0.57
44:HM:383:ALA:O	44:HM:386:GLU:HG2	2.04	0.57
45:HN:18:ALA:O	45:HN:22:GLU:HG3	2.05	0.57
45:HN:267:MET:HG2	45:HN:369:GLY:O	2.05	0.57
44:IC:173:PRO:HG3	44:IC:183:GLU:OE1	2.04	0.57
45:ID:193:VAL:O	45:ID:264:HIS:NE2	2.37	0.57
44:IE:262:TYR:HB3	44:IE:263:PRO:HD2	1.86	0.57
44:IG:276:ILE:HD11	44:IG:280:LYS:O	2.04	0.57
44:II:178:SER:OG	45:IJ:347:ASN:HB3	2.03	0.57
45:IJ:167:PHE:CZ	45:IJ:200:MET:HE1	2.39	0.57
45:IL:7:ILE:HG21	45:IL:88:ASP:HB2	1.87	0.57
45:IN:257:LEU:HB3	45:IN:266:PHE:CZ	2.39	0.57
44:JC:10:GLY:HA2	44:JC:145:THR:CG2	2.35	0.57
44:JC:181:VAL:HG23	45:JD:347:ASN:O	2.05	0.57
45:JD:190:HIS:ND1	45:JD:411:ALA:HA	2.20	0.57
44:JE:167:LEU:CD2	44:JE:200:VAL:HB	2.35	0.57
45:JF:210:ILE:HG21	45:JF:273:LEU:HD13	1.85	0.57
44:JG:175:PRO:HG2	44:JG:304:LYS:CG	2.35	0.57
44:JG:205:ASP:OD1	44:JG:303:ALA:HA	2.04	0.57
45:JJ:209:ASP:CG	45:JJ:213:ARG:HH12	2.08	0.57
45:JJ:317:PHE:CB	45:JJ:321:MET:HE2	2.33	0.57
45:JN:315:ALA:HA	45:JN:366:THR:O	2.05	0.57
45:JN:325:GLU:HG3	45:JN:328:GLU:OE2	2.05	0.57
45:KB:100:ASN:HB2	45:KB:103:LYS:HZ3	1.69	0.57
45:KB:202:ILE:HG23	45:KB:300:MET:CE	2.35	0.57
44:KC:47:ASP:HB2	44:KC:49:PHE:CE2	2.40	0.57
45:KD:217:LEU:HD12	45:KD:217:LEU:O	2.05	0.57
44:KE:10:GLY:HA2	44:KE:145:THR:CG2	2.34	0.57
45:KF:392:LYS:HG2	45:KF:395:LEU:HD23	1.87	0.57
44:KG:101:ASN:HB3	44:KG:182:VAL:HG11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:105:ARG:HA	44:KI:109:THR:CG2	2.34	0.57
44:KI:261:PRO:HA	45:KL:394:PHE:CD2	2.40	0.57
44:KI:275:ILE:HG23	44:KI:368:LEU:HD11	1.86	0.57
44:KK:269:LEU:HG	44:KK:379:SER:O	2.05	0.57
45:KL:2:ARG:HB2	45:KL:131:GLN:HG3	1.85	0.57
44:KM:313:MET:N	44:KM:380:ASN:O	2.37	0.57
45:KN:258:ILE:HG23	45:KN:263:LEU:O	2.05	0.57
44:LA:100:ALA:O	45:LB:255:VAL:HG21	2.03	0.57
44:LE:161:TYR:HD2	44:LE:164:LYS:HG3	1.69	0.57
44:LG:321:GLY:O	44:LG:357:TYR:HA	2.05	0.57
45:LH:192:LEU:HD12	45:LH:196:ALA:HB2	1.87	0.57
44:LI:31:GLN:HB3	44:LI:32:PRO:HD2	1.87	0.57
44:LI:98:ASP:HB3	45:LJ:249:ASP:OD2	2.04	0.57
44:LI:363:VAL:HG23	44:LI:364:PRO:HD2	1.87	0.57
45:LL:5:VAL:HG12	45:LL:62:ARG:CG	2.32	0.57
45:LL:166:THR:O	45:LL:199:CYS:HA	2.03	0.57
44:LM:119:LEU:CD2	44:LM:122:ILE:HD11	2.33	0.57
44:MA:312:TYR:O	44:MA:344:VAL:HG23	2.05	0.57
45:MB:7:ILE:HB	45:MB:135:ILE:HD12	1.87	0.57
45:MB:68:LEU:CD2	45:MB:97:ALA:HB2	2.35	0.57
44:ME:195:LEU:O	44:ME:266:HIS:NE2	2.26	0.57
44:ME:282:TYR:OH	44:ME:370:LYS:O	2.21	0.57
44:MG:423:GLU:O	44:MG:427:ALA:N	2.28	0.57
45:MJ:58:ARG:CZ	45:MJ:60:VAL:HG12	2.35	0.57
45:MJ:229:VAL:HG12	45:MJ:233:MET:CE	2.34	0.57
44:MK:101:ASN:HA	44:MK:144:GLY:N	2.20	0.57
44:MK:183:GLU:N	44:MK:184:PRO:HD2	2.20	0.57
45:ML:266:PHE:CE1	45:ML:370:ASN:HB2	2.40	0.57
45:MN:266:PHE:CD1	45:MN:370:ASN:HB2	2.40	0.57
44:NA:74:VAL:HA	44:NA:77:GLU:HB3	1.86	0.57
44:NA:307:PRO:HB2	44:NA:312:TYR:HE1	1.70	0.57
45:NB:4:ILE:HD13	45:NB:250:LEU:CD1	2.33	0.57
44:NC:4:VAL:HB	44:NC:52:PHE:CE1	2.39	0.57
45:ND:134:GLN:HA	45:ND:165:GLU:O	2.05	0.57
45:ND:202:ILE:HD11	45:ND:268:ILE:CG1	2.35	0.57
44:NE:105:ARG:O	44:NE:110:ILE:HG12	2.05	0.57
44:NE:155:GLU:HG2	44:NE:197:HIS:ND1	2.19	0.57
44:NE:260:VAL:HB	45:NH:397:TRP:CH2	2.39	0.57
44:NE:421:ALA:O	44:NE:425:LEU:HD23	2.05	0.57
45:NF:345:ILE:O	45:NF:348:ASN:HB3	2.05	0.57
44:NI:102:ASN:HB3	44:NI:105:ARG:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:3:GLU:OE1	45:NJ:3:GLU:N	2.35	0.57
45:NJ:193:VAL:HG23	45:NJ:264:HIS:HE1	1.69	0.57
44:NK:12:GLY:O	44:NK:16:VAL:HG13	2.04	0.57
44:NK:223:THR:HG23	44:NK:225:THR:H	1.70	0.57
44:NK:326:LYS:HD2	45:NN:220:PRO:HG2	1.86	0.57
45:NL:167:PHE:HE1	45:NL:200:MET:HE2	1.70	0.57
44:NM:264:ARG:NH2	44:NM:428:LEU:HD22	2.20	0.57
44:NM:386:GLU:HB2	44:NM:387:VAL:HA	1.85	0.57
45:NN:151:LEU:O	45:NN:155:VAL:HG23	2.04	0.57
44:OA:320:ARG:CA	44:OA:356:ASN:HB3	2.35	0.57
45:OB:217:LEU:H	45:OB:217:LEU:HD23	1.68	0.57
44:OC:110:ILE:HA	44:OC:113:GLU:OE1	2.05	0.57
44:OC:172:TYR:CD2	44:OC:203:MET:HG2	2.40	0.57
45:OD:319:GLY:HA2	45:OD:357:PRO:HG3	1.87	0.57
45:OF:319:GLY:HA2	45:OF:357:PRO:HD3	1.87	0.57
45:OF:329:GLN:O	45:OF:333:VAL:HG23	2.05	0.57
45:OF:372:THR:HA	45:OF:422:TYR:CE2	2.39	0.57
45:OH:22:GLU:HG2	45:OH:81:PHE:HD1	1.70	0.57
44:OI:9:VAL:CG1	44:OI:139:ASN:HB3	2.34	0.57
44:OM:294:SER:HA	44:OM:297:GLU:CG	2.31	0.57
45:PD:230:SER:O	45:PD:234:SER:N	2.24	0.57
44:PE:115:VAL:O	44:PE:119:LEU:HD23	2.05	0.57
44:PE:242:LEU:CD1	44:PE:252:ILE:HD11	2.32	0.57
45:PH:22:GLU:HG2	45:PH:81:PHE:CG	2.39	0.57
44:PI:384:ILE:HG21	44:PI:432:TYR:CZ	2.39	0.57
45:PJ:318:ARG:N	45:PJ:364:ALA:O	2.38	0.57
44:PK:320:ARG:HA	44:PK:356:ASN:O	2.05	0.57
45:PL:304:ASP:OD1	45:PL:306:ARG:HG2	2.05	0.57
44:PM:407:TRP:HZ3	45:PN:255:VAL:HA	1.67	0.57
45:QB:20:PHE:HB2	45:QB:233:MET:CE	2.19	0.57
45:QB:38:GLY:C	45:QB:43:GLN:HE22	2.08	0.57
45:QB:345:ILE:HG12	45:QB:348:ASN:HB3	1.87	0.57
44:QC:257:THR:HA	45:QD:397:TRP:HZ3	1.68	0.57
45:QF:150:LEU:HD21	45:QF:154:LYS:HE2	1.85	0.57
44:QG:64:ARG:NH2	44:QG:129:CYS:SG	2.78	0.57
45:QJ:22:GLU:HA	45:QJ:81:PHE:CD2	2.39	0.57
45:QL:314:SER:HA	45:QL:350:LYS:O	2.04	0.57
44:RA:205:ASP:OD1	44:RA:303:ALA:HA	2.05	0.57
45:RB:66:MET:CE	45:RB:91:VAL:HG13	2.34	0.57
44:RC:9:VAL:HG12	44:RC:139:ASN:HB3	1.87	0.57
44:RC:276:ILE:HG23	44:RC:281:ALA:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:47:ILE:HD11	45:RD:59:TYR:CE2	2.40	0.57
44:RE:269:LEU:HD13	44:RE:305:CYS:HB3	1.86	0.57
44:RG:11:GLN:HG3	44:RG:74:VAL:CG1	2.26	0.57
44:RG:264:ARG:NH2	44:RG:428:LEU:HD12	2.20	0.57
45:RH:49:VAL:HG11	45:RH:241:ARG:HG2	1.86	0.57
45:RH:257:LEU:HD23	45:RH:266:PHE:CE2	2.40	0.57
45:RH:323:THR:CA	45:RH:326:VAL:HB	2.29	0.57
45:RJ:1:MET:O	45:RJ:2:ARG:HG2	2.05	0.57
45:RJ:21:TRP:CZ3	45:RJ:50:TYR:HB3	2.39	0.57
44:RK:386:GLU:HA	44:RK:389:SER:OG	2.05	0.57
45:RL:44:LEU:HD23	45:RL:47:ILE:HD12	1.86	0.57
45:RN:167:PHE:HA	45:RN:200:MET:O	2.05	0.57
44:SA:13:GLY:CA	44:SA:16:VAL:HG12	2.35	0.57
45:SB:1:MET:CE	44:SC:72:PRO:HG2	2.35	0.57
45:SB:312:THR:HG22	45:SB:313:ALA:N	2.20	0.57
44:SC:121:ARG:O	44:SC:124:LYS:N	2.37	0.57
45:SD:51:TYR:CE1	45:SD:61:PRO:HG3	2.39	0.57
45:SD:254:ALA:HB1	45:SD:258:ILE:HD13	1.86	0.57
45:SF:86:ARG:HH12	45:TF:281:TYR:CB	2.17	0.57
44:SG:1:MET:CB	44:SG:130:THR:HG21	2.33	0.57
44:SI:51:THR:HG22	44:SI:52:PHE:CE1	2.39	0.57
44:SI:425:LEU:O	44:SI:429:GLU:HG3	2.03	0.57
45:SJ:217:LEU:O	45:SJ:217:LEU:HD12	2.04	0.57
44:SK:417:GLU:O	44:SK:420:GLU:HG2	2.05	0.57
45:SL:375:GLN:O	45:SL:379:LYS:HG2	2.04	0.57
44:SM:9:VAL:HG23	44:SM:68:LEU:HB3	1.85	0.57
44:SM:203:MET:HB2	44:SM:303:ALA:HB1	1.86	0.57
45:SN:3:GLU:OE2	45:SN:128:ASP:N	2.38	0.57
44:TA:2:ARG:HD2	44:TA:242:LEU:HB3	1.87	0.57
44:TA:352:LYS:HD2	45:TB:177:ASP:O	2.04	0.57
45:TB:251:ARG:HD3	44:TC:100:ALA:HB2	1.86	0.57
44:TC:4:VAL:HG23	44:TC:134:GLY:C	2.25	0.57
44:TC:424:ASP:O	44:TC:427:ALA:HB3	2.04	0.57
45:TD:54:ALA:HB1	45:UD:282:ARG:O	2.05	0.57
45:TD:152:ILE:O	45:TD:156:ARG:N	2.35	0.57
44:TE:111:GLY:HA2	44:TE:149:LEU:HD21	1.86	0.57
44:TG:48:ALA:HB1	44:TG:243:ARG:O	2.05	0.57
44:TG:271:SER:O	44:TG:377:MET:HG2	2.05	0.57
45:TH:207:LEU:HB3	45:TH:225:LEU:HD22	1.87	0.57
45:TH:246:LEU:HD13	44:TI:224:TYR:CE2	2.39	0.57
45:TJ:217:LEU:HD11	45:TJ:220:PRO:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:360:PRO:HG2	44:TK:374:ALA:HB2	1.85	0.57
45:TL:304:ASP:HB3	45:TL:307:HIS:CB	2.32	0.57
45:TL:315:ALA:N	45:TL:350:LYS:O	2.38	0.57
44:TM:230:LEU:HA	44:TM:233:GLN:OE1	2.04	0.57
45:TN:421:GLU:HA	45:TN:424:GLN:CB	2.35	0.57
44:UA:31:GLN:HG3	44:UA:34:GLY:N	2.18	0.57
44:UA:348:PRO:CD	45:UB:388:MET:HE2	2.35	0.57
45:UD:3:GLU:O	45:UD:130:LEU:HD12	2.05	0.57
45:UD:60:VAL:HG21	45:UD:86:ARG:CG	2.34	0.57
45:UD:167:PHE:HD2	45:UD:200:MET:HE2	1.70	0.57
44:UE:2:ARG:HB2	44:UE:133:GLN:OE1	2.05	0.57
45:UF:70:PRO:HG3	45:UF:93:GLY:O	2.04	0.57
44:UG:278:ALA:HB2	44:UG:369:ALA:CB	2.34	0.57
44:UG:320:ARG:CZ	44:UG:360:PRO:HG3	2.34	0.57
44:UI:11:GLN:HB3	46:UI:501:GTP:O2A	2.05	0.57
44:UI:287:SER:O	44:UI:291:ILE:HG12	2.03	0.57
45:UJ:66:MET:HE2	45:UJ:116:VAL:HG21	1.87	0.57
44:UK:360:PRO:HG2	44:UK:374:ALA:CB	2.34	0.57
44:UM:3:GLU:OE2	44:UM:129:CYS:HA	2.05	0.57
44:UM:100:ALA:HB2	44:UM:105:ARG:HH11	1.70	0.57
44:VA:20:CYS:HA	44:VA:232:ALA:HB1	1.86	0.57
44:VA:151:SER:HA	44:VA:154:LEU:HD12	1.87	0.57
44:VA:169:PHE:CE1	44:VA:202:VAL:HG21	2.39	0.57
45:VD:14:ASN:ND2	45:VD:72:THR:OG1	2.38	0.57
45:VF:105:HIS:CD2	45:VF:150:LEU:HB2	2.40	0.57
45:VF:112:LEU:HD23	45:VF:112:LEU:O	2.03	0.57
45:VF:263:LEU:HD11	45:VF:422:TYR:CE1	2.39	0.57
44:VG:420:GLU:HA	44:VG:423:GLU:HB2	1.86	0.57
45:VH:172:SER:OG	45:VH:205:GLU:HB2	2.05	0.57
45:VH:256:ASN:C	45:VH:257:LEU:HD12	2.24	0.57
45:VH:278:SER:CA	45:VH:281:TYR:HD2	2.09	0.57
45:VH:311:LEU:CD2	45:VH:342:VAL:HG11	2.27	0.57
44:VK:169:PHE:CE1	44:VK:202:VAL:HG21	2.40	0.57
45:VL:211:CYS:SG	45:VL:228:LEU:HD11	2.44	0.57
44:VM:176:GLN:HG3	45:VN:331:LEU:HD11	1.86	0.57
44:WA:207:GLU:O	44:WA:210:TYR:HB2	2.04	0.57
45:WB:341:PHE:HD1	45:WB:348:ASN:HD21	1.52	0.57
44:WC:69:ASP:OD2	44:WC:74:VAL:HB	2.05	0.57
44:WC:275:ILE:HG23	44:WC:368:LEU:HD11	1.86	0.57
44:WC:317:MET:HE1	44:WC:332:ILE:HD11	1.86	0.57
44:WE:155:GLU:HA	44:WE:197:HIS:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:298:PRO:HG3	44:WE:308:ARG:NH1	2.19	0.57
45:WF:102:ALA:HA	45:WF:403:MET:CE	2.34	0.57
44:WG:194:LEU:HB2	44:WG:198:THR:OG1	2.05	0.57
45:WH:114:ASP:OD1	45:WH:115:SER:N	2.38	0.57
44:WI:258:ASN:CG	45:WL:179:VAL:HG22	2.24	0.57
45:WJ:4:ILE:HD13	45:WJ:250:LEU:HD11	1.85	0.57
44:WK:183:GLU:O	44:WK:187:SER:HB2	2.03	0.57
44:WM:53:PHE:CE2	44:WM:63:PRO:HG3	2.39	0.57
44:WM:54:SER:O	44:WM:62:VAL:N	2.31	0.57
44:WM:191:THR:O	44:WM:195:LEU:HB2	2.05	0.57
44:WM:340:THR:HG23	44:WM:341:ILE:HG13	1.86	0.57
45:WN:200:MET:HE3	45:WN:267:MET:HA	1.85	0.57
8:OG:40:LEU:HD23	45:JL:356:ILE:CG2	2.32	0.57
20:1J:162:VAL:HG23	45:IH:362:LYS:HZ3	1.65	0.57
20:1J:244:LEU:CA	44:II:221:ARG:HH12	2.18	0.57
25:1P:200:LEU:CD1	45:TH:276:ARG:HD2	2.33	0.57
26:1R:295:PHE:HB3	45:CD:77:ARG:NH1	2.18	0.57
12:1S:111:LYS:HG3	45:MF:157:GLU:HG2	1.85	0.57
15:1V:141:ASN:C	44:LK:415:GLU:OE1	2.43	0.57
27:1W:128:ARG:NH2	45:LF:219:THR:HG21	2.18	0.57
16:1X:81:ARG:HD2	45:MF:276:ARG:NH1	2.19	0.57
32:2I:45:LYS:HA	45:GH:332:ASN:OD1	2.05	0.57
10:2N:161:LYS:HG3	45:KB:276:ARG:NH2	2.18	0.57
11:2Q:72:LYS:CB	36:5S:71:ARG:HH21	2.16	0.57
37:5C:125:GLN:HG2	45:NL:224:ASP:OD1	2.04	0.57
37:5D:103:HIS:HB3	44:NM:279:GLU:CD	2.23	0.57
38:5E:173:LYS:CD	45:KD:194:GLU:HG3	2.29	0.57
38:5G:81:MET:HE2	38:5G:100:VAL:HG21	1.85	0.57
38:5G:138:LEU:O	38:5G:138:LEU:HD23	2.04	0.57
38:5H:9:TYR:CD1	38:5H:10:PRO:HD3	2.40	0.57
39:5J:46:LEU:O	39:5J:47:PHE:HB2	2.05	0.57
11:5Q:75:PHE:HB2	11:5Q:169:ASP:CA	2.35	0.57
35:5R:397:SER:OG	45:EJ:276:ARG:HD3	2.04	0.57
41:6G:179:ILE:HG22	41:6G:180:PRO:HD2	1.86	0.57
35:6R:255:VAL:CG2	44:CM:41:THR:O	2.52	0.57
35:6R:300:PHE:CD2	45:CN:77:ARG:NE	2.73	0.57
35:7R:245:LEU:CD1	35:7R:249:LEU:HB2	2.35	0.57
42:8L:57:UNK:O	42:8L:61:UNK:N	2.37	0.57
45:AB:97:ALA:HA	45:AB:103:LYS:CG	2.30	0.57
45:AD:86:ARG:HH21	45:AD:87:PRO:HG2	1.70	0.57
45:AH:32:PRO:HB3	45:AH:81:PHE:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:115:VAL:O	44:AI:119:LEU:HD23	2.05	0.57
44:AI:280:LYS:HG3	44:MI:89:PRO:HG2	1.87	0.57
45:AJ:61:PRO:HG2	45:AJ:84:LEU:HB3	1.86	0.57
44:AK:96:LYS:HA	45:AL:1:MET:HE2	1.87	0.57
44:AK:139:ASN:OD1	44:AK:170:THR:HG22	2.04	0.57
44:AM:175:PRO:HG2	44:AM:304:LYS:CG	2.34	0.57
44:BA:221:ARG:CZ	45:BB:325:GLU:HB3	2.35	0.57
44:BA:288:VAL:HG21	44:BA:327:ASP:CG	2.25	0.57
44:BC:258:ASN:HA	45:BF:179:VAL:HG21	1.86	0.57
44:BG:257:THR:HG22	45:BJ:397:TRP:CE2	2.40	0.57
45:BH:178:THR:CG2	45:BH:180:VAL:HG12	2.35	0.57
45:BJ:21:TRP:CH2	45:BJ:61:PRO:HB3	2.40	0.57
45:BJ:214:THR:O	45:BJ:275:SER:HB3	2.05	0.57
45:BJ:268:ILE:HG22	45:BJ:368:VAL:HG12	1.85	0.57
44:BK:363:VAL:CG2	44:BK:364:PRO:HD2	2.35	0.57
44:BM:3:GLU:HG3	44:BM:129:CYS:SG	2.44	0.57
44:BM:363:VAL:CG2	44:BM:364:PRO:HD2	2.35	0.57
45:BN:178:THR:O	45:BN:180:VAL:N	2.38	0.57
44:CA:356:ASN:OD1	44:CA:357:TYR:N	2.38	0.57
45:CB:19:LYS:HD2	45:CB:227:HIS:CE1	2.39	0.57
45:CB:175:VAL:HG23	45:CB:175:VAL:O	2.05	0.57
44:CC:260:VAL:HG21	45:CD:397:TRP:CH2	2.40	0.57
45:CD:350:LYS:HG2	45:CD:351:SER:N	2.20	0.57
45:CH:101:TRP:CE2	45:CH:187:LEU:HB3	2.40	0.57
45:CH:323:THR:O	45:CH:326:VAL:HG12	2.05	0.57
45:CJ:324:LYS:HG2	44:CK:222:PRO:O	2.05	0.57
45:CJ:345:ILE:O	45:CJ:345:ILE:HG23	2.05	0.57
45:CL:385:PHE:HE2	45:CL:412:GLU:HB2	1.70	0.57
44:CM:204:LEU:CD1	44:CM:231:ILE:HG21	2.35	0.57
45:CN:25:SER:CB	45:CN:30:ILE:HB	2.35	0.57
45:CN:309:ARG:HA	45:CN:340:TYR:O	2.04	0.57
45:CN:355:ASP:C	45:CN:356:ILE:HD13	2.25	0.57
44:DA:4:VAL:HG12	44:DA:51:THR:O	2.04	0.57
44:DA:141:VAL:HG12	44:DA:171:ILE:O	2.04	0.57
44:DA:253:THR:HG23	45:DB:98:GLY:HA2	1.87	0.57
44:DC:5:ILE:HG23	44:DC:64:ARG:O	2.05	0.57
44:DC:103:PHE:HA	44:DC:144:GLY:HA2	1.86	0.57
45:DD:296:ALA:HA	45:DD:299:MET:CE	2.35	0.57
45:DD:396:HIS:HA	45:DD:399:THR:OG1	2.04	0.57
45:DF:392:LYS:O	45:DF:392:LYS:HG3	2.03	0.57
45:DH:99:ASN:CA	45:DH:142:GLY:HA3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:332:ASN:OD1	45:DJ:336:LYS:NZ	2.22	0.57
45:DJ:372:THR:HA	45:DJ:422:TYR:CE2	2.40	0.57
44:DK:89:PRO:HG3	44:EK:280:LYS:CE	2.35	0.57
44:DK:335:ILE:HD13	44:DK:338:LYS:NZ	2.18	0.57
45:DL:98:GLY:C	45:DL:99:ASN:HA	2.25	0.57
44:DM:66:VAL:HG11	44:DM:122:ILE:HD11	1.86	0.57
44:DM:85:GLN:O	44:DM:85:GLN:HG2	2.05	0.57
44:DM:132:LEU:CD2	44:DM:164:LYS:HD2	2.28	0.57
45:DN:293:MET:SD	45:DN:367:PHE:HB2	2.45	0.57
45:EB:52:ASN:HB2	45:EB:60:VAL:O	2.04	0.57
45:EB:383:GLU:O	45:EB:386:THR:HG22	2.05	0.57
45:ED:8:GLN:NE2	45:ED:14:ASN:HA	2.20	0.57
45:ED:237:THR:HG23	45:ED:241:ARG:NE	2.20	0.57
44:EI:37:PRO:HG2	44:EI:40:LYS:N	2.17	0.57
45:EJ:202:ILE:HD12	45:EJ:300:MET:HG3	1.86	0.57
45:EJ:316:LEU:C	45:EJ:365:VAL:HG13	2.25	0.57
45:EL:318:ARG:HH11	45:EL:358:PRO:CG	2.17	0.57
44:EM:141:VAL:HG11	44:EM:172:TYR:HA	1.85	0.57
44:EM:251:ASP:HB2	44:EM:253:THR:HG22	1.85	0.57
44:EM:312:TYR:CD1	44:EM:381:SER:HB3	2.40	0.57
45:EN:136:THR:HA	45:EN:167:PHE:O	2.04	0.57
44:FA:104:ALA:HB2	44:FA:413:MET:HE3	1.87	0.57
44:FA:141:VAL:HG23	44:FA:190:SER:OG	2.05	0.57
44:FA:270:SER:C	44:FA:302:MET:HE3	2.25	0.57
44:FA:332:ILE:HD12	44:FA:351:PHE:CD2	2.40	0.57
45:FB:168:SER:OG	45:FB:201:VAL:HA	2.04	0.57
44:FC:221:ARG:HH11	45:FD:325:GLU:H	1.51	0.57
45:FD:334:GLN:NE2	45:FD:348:ASN:H	2.03	0.57
45:FF:208:TYR:OH	45:FF:225:LEU:HD11	2.03	0.57
44:FG:183:GLU:N	44:FG:184:PRO:HD2	2.19	0.57
44:FI:156:ARG:O	44:FI:159:VAL:HG12	2.04	0.57
44:FM:405:VAL:O	44:FM:409:VAL:HG23	2.05	0.57
44:FM:406:HIS:O	44:FM:410:GLY:N	2.37	0.57
44:GA:88:HIS:HE2	44:HA:280:LYS:HE2	1.70	0.57
44:GA:272:TYR:CD1	44:GA:376:CYS:HB2	2.39	0.57
45:GB:47:ILE:HD13	45:GB:59:TYR:CD2	2.40	0.57
45:GB:113:ILE:HD11	45:GB:151:LEU:CA	2.34	0.57
44:GC:88:HIS:HB3	44:GC:91:GLN:HG2	1.85	0.57
44:GC:200:VAL:HG13	44:GC:268:MET:CE	2.34	0.57
44:GC:223:THR:OG1	45:GD:323:THR:HG23	2.05	0.57
44:GC:422:ARG:NH1	44:GC:426:ALA:HB2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:268:MET:HB2	44:GE:379:SER:C	2.25	0.57
45:GF:12:CYS:CB	45:GF:138:SER:HB2	2.35	0.57
44:GG:55:GLU:HG3	44:GG:57:GLY:H	1.70	0.57
45:GH:156:ARG:NH1	45:GH:162:ARG:O	2.38	0.57
45:GH:322:SER:N	45:GH:324:LYS:N	2.53	0.57
44:GI:15:GLN:NE2	45:GJ:245:GLN:O	2.36	0.57
45:GJ:15:GLN:OE1	45:GJ:15:GLN:HA	2.05	0.57
45:GJ:286:VAL:HG21	45:GJ:325:GLU:HG2	1.86	0.57
45:GL:13:GLY:O	45:GL:17:GLY:N	2.30	0.57
45:GL:65:LEU:HD22	45:GL:90:PHE:CE1	2.39	0.57
45:GL:314:SER:HA	45:GL:349:ILE:HG23	1.86	0.57
44:GM:49:PHE:O	44:GM:53:PHE:HD1	1.88	0.57
45:GN:4:ILE:HG22	45:GN:132:GLY:H	1.70	0.57
45:GN:100:ASN:ND2	45:GN:103:LYS:HB2	2.13	0.57
44:HA:140:SER:HA	44:HA:171:ILE:HB	1.87	0.57
45:HB:68:LEU:HD23	45:HB:97:ALA:HB2	1.87	0.57
44:HE:183:GLU:HG2	44:HE:184:PRO:CD	2.34	0.57
44:HE:293:ASN:O	44:HE:297:GLU:HG3	2.05	0.57
45:HF:67:ASP:OD2	45:HF:72:THR:OG1	2.19	0.57
44:HI:26:LEU:HD21	44:HI:363:VAL:HA	1.87	0.57
44:HK:261:PRO:HA	45:HN:394:PHE:CZ	2.40	0.57
44:HM:121:ARG:NH1	44:HM:124:LYS:HD2	2.20	0.57
44:IA:171:ILE:HG23	44:IA:204:LEU:O	2.05	0.57
45:IB:337:ASN:HB3	45:IB:340:TYR:CD2	2.40	0.57
44:IE:269:LEU:H	44:IE:269:LEU:HD23	1.69	0.57
45:IF:207:LEU:O	45:IF:210:ILE:HB	2.04	0.57
45:IF:372:THR:O	45:IF:375:GLN:HG2	2.05	0.57
45:IH:217:LEU:HD12	45:IH:217:LEU:O	2.05	0.57
45:IH:290:THR:HA	45:IH:293:MET:HG3	1.86	0.57
44:II:60:LYS:O	44:II:61:HIS:ND1	2.37	0.57
44:II:386:GLU:O	44:II:390:ARG:HG2	2.05	0.57
45:IJ:292:GLN:HA	45:IJ:295:ASP:HB2	1.86	0.57
45:IL:267:MET:HB2	45:IL:301:CYS:SG	2.45	0.57
44:IM:323:VAL:HB	44:IM:373:ARG:CD	2.34	0.57
45:IN:66:MET:CE	45:IN:91:VAL:HG12	2.35	0.57
45:IN:137:HIS:O	45:IN:168:SER:HA	2.04	0.57
44:JA:76:ASP:OD2	45:JB:46:ARG:NH2	2.32	0.57
44:JA:181:VAL:HG13	45:JB:347:ASN:O	2.04	0.57
44:JA:210:TYR:CE1	44:JA:227:LEU:HD11	2.39	0.57
44:JC:222:PRO:O	45:JD:322:SER:HB2	2.04	0.57
44:JC:332:ILE:HG23	44:JC:351:PHE:HD1	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:4:ILE:HD11	45:JD:50:TYR:CE1	2.39	0.57
45:JD:265:PHE:CE2	45:JD:418:LEU:HD11	2.36	0.57
45:JH:91:VAL:HG21	45:JH:116:VAL:HG23	1.86	0.57
44:JI:32:PRO:HB3	44:JI:83:TYR:CE1	2.37	0.57
44:JI:221:ARG:N	44:JI:222:PRO:HD3	2.20	0.57
45:JJ:248:SER:CB	45:JJ:252:LYS:HD2	2.34	0.57
44:JM:175:PRO:HG3	44:JM:304:LYS:CG	2.35	0.57
44:JM:301:MET:HG3	44:JM:303:ALA:H	1.70	0.57
44:KA:291:ILE:HG13	44:KA:292:THR:N	2.20	0.57
45:KB:133:PHE:H	45:KB:164:MET:HE1	1.70	0.57
45:KB:207:LEU:CD1	45:KB:225:LEU:HG	2.35	0.57
44:KC:88:HIS:ND1	44:KC:89:PRO:HD2	2.19	0.57
44:KC:271:SER:OG	44:KC:377:MET:HB3	2.05	0.57
45:KD:8:GLN:NE2	45:KD:17:GLY:HA3	2.20	0.57
45:KD:304:ASP:HB3	45:KD:307:HIS:HD2	1.69	0.57
44:KE:144:GLY:HA3	46:KE:501:GTP:O2G	2.05	0.57
45:KJ:178:THR:HG22	45:KJ:180:VAL:H	1.70	0.57
45:KJ:289:LEU:HD13	45:KJ:363:MET:SD	2.45	0.57
45:KJ:289:LEU:HD22	45:KJ:363:MET:SD	2.44	0.57
44:KK:248:LEU:HD23	44:KK:353:VAL:O	2.04	0.57
45:KN:341:PHE:O	45:KN:349:ILE:HG22	2.05	0.57
44:LA:17:GLY:HA2	44:LA:20:CYS:SG	2.45	0.57
44:LA:31:GLN:HG2	44:LA:32:PRO:CD	2.33	0.57
44:LE:230:LEU:O	44:LE:234:VAL:HG23	2.05	0.57
45:LF:7:ILE:HD12	45:LF:151:LEU:HD21	1.85	0.57
45:LH:105:HIS:CD2	45:LH:150:LEU:HB2	2.40	0.57
44:LI:72:PRO:HG2	45:LJ:1:MET:CE	2.34	0.57
44:LI:181:VAL:HG22	45:LJ:347:ASN:O	2.05	0.57
45:LJ:138:SER:O	45:LJ:145:SER:HB3	2.05	0.57
45:LJ:263:LEU:HG	45:LJ:422:TYR:CD1	2.39	0.57
45:LJ:315:ALA:N	45:LJ:350:LYS:O	2.34	0.57
45:MD:33:THR:OG1	45:MD:35:THR:HG22	2.05	0.57
44:MG:329:ASN:HB3	45:MJ:175:VAL:CG1	2.34	0.57
45:MJ:342:VAL:HG13	45:MJ:345:ILE:HG22	1.86	0.57
44:MK:6:SER:O	44:MK:7:ILE:HD13	2.03	0.57
44:MK:105:ARG:HD2	45:ML:251:ARG:NH2	2.20	0.57
44:MK:416:GLY:O	44:MK:419:SER:OG	2.20	0.57
44:MM:179:THR:HG21	46:MM:501:GTP:H3'	1.87	0.57
44:MM:184:PRO:HG2	44:MM:398:MET:HE1	1.86	0.57
45:MN:42:LEU:HD22	45:MN:45:GLU:OE2	2.04	0.57
45:MN:67:ASP:HB3	45:MN:73:MET:HE2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MN:330:MET:CE	45:MN:349:ILE:HG21	2.34	0.57
44:NA:179:THR:O	45:NB:350:LYS:HA	2.05	0.57
44:NA:250:VAL:HG13	44:NA:254:GLU:O	2.04	0.57
45:NB:40:SER:H	45:NB:43:GLN:HE21	1.52	0.57
44:NC:210:TYR:CD1	44:NC:227:LEU:HD21	2.40	0.57
45:ND:86:ARG:HE	45:ND:87:PRO:CD	2.11	0.57
44:NE:14:ILE:HG21	44:NE:74:VAL:HB	1.85	0.57
45:NF:204:ASN:O	45:NF:207:LEU:N	2.37	0.57
45:NJ:330:MET:CE	45:NJ:349:ILE:HG21	2.35	0.57
44:NK:56:THR:N	44:NK:57:GLY:CA	2.64	0.57
45:NN:42:LEU:HD23	45:NN:45:GLU:CD	2.25	0.57
44:OA:247:ALA:HB1	45:OD:222:TYR:CD2	2.40	0.57
45:OB:139:LEU:HA	45:OB:145:SER:OG	2.04	0.57
45:OB:173:PRO:CG	45:OB:380:ARG:HD3	2.34	0.57
45:OB:293:MET:HE2	45:OB:367:PHE:HB2	1.85	0.57
44:OC:224:TYR:HB3	46:OC:501:GTP:O6	2.04	0.57
44:OC:307:PRO:HB3	44:OC:312:TYR:CE1	2.39	0.57
45:OF:275:SER:O	45:OF:279:GLN:HG3	2.04	0.57
45:OH:253:LEU:HD21	45:OH:316:LEU:HD21	1.87	0.57
44:OI:209:ILE:HD11	44:OI:302:MET:CB	2.35	0.57
44:OK:183:GLU:N	44:OK:184:PRO:HD2	2.18	0.57
44:OK:190:SER:O	44:OK:194:LEU:HG	2.04	0.57
44:OK:377:MET:O	44:OK:378:ILE:HD13	2.04	0.57
45:OL:294:PHE:CE2	45:OL:333:VAL:HG11	2.40	0.57
44:OM:66:VAL:HG12	44:OM:91:GLN:HB2	1.87	0.57
45:ON:1:MET:HA	45:ON:129:CYS:SG	2.45	0.57
44:PA:54:SER:OG	44:PA:62:VAL:HB	2.05	0.57
44:PA:277:SER:HA	44:PA:367:ASP:O	2.05	0.57
44:PA:287:SER:O	44:PA:291:ILE:HG23	2.04	0.57
44:PA:319:TYR:CE2	44:PA:328:VAL:HG22	2.39	0.57
45:PB:16:ILE:HA	45:PB:226:ASN:OD1	2.05	0.57
44:PC:87:PHE:CD1	44:PC:92:LEU:HD11	2.39	0.57
44:PC:255:PHE:HD1	44:PC:259:LEU:HD12	1.68	0.57
44:PC:261:PRO:HA	45:PF:394:PHE:CE2	2.39	0.57
45:PD:180:VAL:HG23	45:PD:183:TYR:CD2	2.40	0.57
45:PD:187:LEU:HD11	45:PD:408:PHE:CE1	2.40	0.57
44:PE:105:ARG:O	44:PE:110:ILE:HG12	2.05	0.57
44:PE:191:THR:HA	44:PE:194:LEU:HG	1.86	0.57
45:PF:387:ALA:O	45:PF:390:ARG:HG2	2.05	0.57
45:PH:135:ILE:HG13	45:PH:152:ILE:HD11	1.86	0.57
44:PI:172:TYR:HE1	44:PI:203:MET:CE	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PI:268:MET:HB2	44:PI:379:SER:O	2.04	0.57
44:PI:271:SER:O	44:PI:377:MET:HG2	2.05	0.57
45:PJ:99:ASN:C	45:PJ:142:GLY:HA3	2.25	0.57
45:PJ:330:MET:HB3	45:PJ:349:ILE:HG21	1.87	0.57
44:PK:229:ARG:O	44:PK:233:GLN:HG2	2.05	0.57
44:PM:25:CYS:O	44:PM:29:GLY:N	2.37	0.57
45:PN:288:GLU:HA	45:PN:291:GLN:HG2	1.86	0.57
44:QA:247:ALA:HB2	44:QA:357:TYR:OH	2.05	0.57
45:QB:211:CYS:SG	45:QB:215:LEU:HD12	2.45	0.57
44:QC:49:PHE:O	44:QC:53:PHE:HB2	2.04	0.57
44:QC:276:ILE:CG1	44:QC:280:LYS:HG3	2.34	0.57
45:QD:68:LEU:CD2	45:QD:97:ALA:HB2	2.35	0.57
45:QF:156:ARG:HD3	45:QF:164:MET:HE3	1.87	0.57
44:QG:33:ASP:HB2	44:QG:35:GLN:NE2	2.17	0.57
44:QG:55:GLU:HG3	44:QG:57:GLY:H	1.70	0.57
44:QG:269:LEU:HD23	44:QG:379:SER:O	2.05	0.57
45:QH:122:LYS:HZ2	45:QH:123:GLU:HG2	1.70	0.57
45:QH:265:PHE:O	45:QH:370:ASN:ND2	2.38	0.57
45:QJ:5:VAL:HG12	45:QJ:62:ARG:CD	2.33	0.57
45:QJ:72:THR:O	45:QJ:76:VAL:N	2.36	0.57
45:QJ:168:SER:HB2	45:QJ:201:VAL:CA	2.26	0.57
45:QJ:350:LYS:HA	44:QK:179:THR:O	2.05	0.57
44:QK:320:ARG:HD3	44:QK:360:PRO:HG3	1.86	0.57
45:QL:215:LEU:HD12	45:QL:217:LEU:H	1.69	0.57
44:QM:253:THR:HG23	44:QM:254:GLU:HG3	1.86	0.57
44:QM:320:ARG:HA	44:QM:356:ASN:O	2.05	0.57
44:QM:346:TRP:CZ3	45:QN:393:ALA:HB2	2.40	0.57
45:QN:73:MET:O	45:QN:76:VAL:HG12	2.05	0.57
45:QN:207:LEU:HB2	45:QN:225:LEU:HD22	1.85	0.57
44:RA:2:ARG:NH2	44:RA:241:SER:O	2.38	0.57
45:RB:313:ALA:O	45:RB:349:ILE:HA	2.05	0.57
44:RC:288:VAL:HG21	44:RC:323:VAL:CG2	2.32	0.57
45:RD:65:LEU:N	45:RD:89:ASN:O	2.37	0.57
45:RD:119:VAL:HA	45:RD:122:LYS:NZ	2.20	0.57
45:RD:345:ILE:HG23	45:RD:345:ILE:O	2.04	0.57
44:RE:271:SER:OG	44:RE:377:MET:SD	2.59	0.57
45:RF:163:ILE:HA	45:RF:197:ASP:OD2	2.04	0.57
44:RG:137:VAL:O	44:RG:168:GLY:HA2	2.05	0.57
44:RM:280:LYS:HA	44:RM:283:HIS:CD2	2.40	0.57
44:RM:320:ARG:CG	44:RM:374:ALA:HB3	2.34	0.57
45:RN:286:VAL:H	45:RN:363:MET:CE	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:20:CYS:HB2	44:SA:24:PHE:CZ	2.40	0.57
44:SA:88:HIS:H	44:SA:91:GLN:HE21	1.53	0.57
44:SA:271:SER:N	44:SA:377:MET:O	2.34	0.57
44:SA:424:ASP:OD1	44:SA:425:LEU:N	2.38	0.57
45:SB:310:TYR:HA	45:SB:371:SER:OG	2.04	0.57
45:SD:14:ASN:OD1	45:SD:65:LEU:HD23	2.05	0.57
44:SE:295:ALA:HB1	44:SE:377:MET:SD	2.45	0.57
45:SF:2:ARG:NH2	45:SF:240:LEU:HG	2.20	0.57
44:SG:70:LEU:HD12	44:SG:145:THR:HB	1.87	0.57
45:SJ:217:LEU:HD11	45:SJ:220:PRO:HG3	1.84	0.57
45:SJ:404:ASP:N	45:SJ:407:GLU:OE2	2.37	0.57
44:SK:151:SER:HB3	44:SK:193:SER:OG	2.04	0.57
44:SK:261:PRO:HA	45:SL:394:PHE:CD2	2.40	0.57
44:SK:313:MET:HE3	44:SK:382:THR:HG22	1.86	0.57
45:SL:326:VAL:HG13	45:SL:353:ILE:HD11	1.87	0.57
45:TD:113:ILE:HD11	45:TD:154:LYS:HD2	1.86	0.57
45:TD:214:THR:C	45:TD:216:LYS:HG3	2.26	0.57
45:TD:236:VAL:HG22	45:TD:250:LEU:CD2	2.34	0.57
44:TE:226:ASN:O	44:TE:230:LEU:HD23	2.04	0.57
45:TF:268:ILE:HG22	45:TF:368:VAL:HG22	1.87	0.57
44:TG:144:GLY:HA2	44:TG:147:SER:OG	2.03	0.57
45:TH:69:GLU:OE2	45:TH:72:THR:HB	2.04	0.57
44:TI:32:PRO:HB3	44:TI:83:TYR:CE1	2.39	0.57
44:TI:186:ASN:OD1	44:TI:187:SER:N	2.38	0.57
45:TJ:207:LEU:HA	45:TJ:210:ILE:HD12	1.87	0.57
45:TJ:257:LEU:CD2	45:TJ:368:VAL:HG12	2.34	0.57
45:TJ:304:ASP:HB3	45:TJ:307:HIS:CG	2.39	0.57
44:TK:54:SER:HB3	44:TK:64:ARG:CZ	2.35	0.57
44:TK:69:ASP:OD1	44:TK:70:LEU:N	2.36	0.57
44:TK:241:SER:HB2	44:TK:249:ASN:HA	1.87	0.57
45:TL:261:PRO:HB3	44:TM:406:HIS:CD2	2.39	0.57
44:TM:161:TYR:HB3	44:TM:164:LYS:HG3	1.87	0.57
44:TM:236:SER:O	44:TM:240:ALA:HB2	2.04	0.57
44:TM:247:ALA:HB2	44:TM:357:TYR:OH	2.05	0.57
45:UB:105:HIS:CD2	45:UB:150:LEU:HB2	2.40	0.57
45:UB:198:GLU:OE2	45:UB:254:ALA:HB2	2.05	0.57
44:UC:68:LEU:HD21	44:UC:118:CYS:HB2	1.87	0.57
44:UC:101:ASN:CA	44:UC:144:GLY:HA3	2.35	0.57
44:UC:156:ARG:HB3	44:UC:160:ASP:OD2	2.04	0.57
45:UD:256:ASN:ND2	45:UD:350:LYS:HD2	2.17	0.57
44:UE:166:LYS:HE2	44:UE:197:HIS:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:325:GLU:O	45:UF:329:GLN:HG2	2.04	0.57
45:UF:405:GLU:HA	45:UF:408:PHE:HB2	1.87	0.57
45:UH:304:ASP:O	45:UH:373:ALA:HB1	2.04	0.57
44:UI:1:MET:O	44:UI:131:GLY:HA3	2.05	0.57
44:UI:1:MET:CE	45:UJ:94:GLN:HG3	2.35	0.57
44:UI:5:ILE:O	44:UI:136:LEU:N	2.36	0.57
44:UI:260:VAL:HG13	44:UI:265:ILE:O	2.04	0.57
45:UJ:190:HIS:O	45:UJ:193:VAL:HG12	2.05	0.57
45:UJ:399:THR:HA	45:UJ:403:MET:O	2.04	0.57
44:UK:250:VAL:HG13	44:UK:254:GLU:HB2	1.87	0.57
45:UL:7:ILE:HD13	45:UL:151:LEU:HD21	1.87	0.57
44:UM:215:ARG:NH2	44:UM:300:ASN:HA	2.19	0.57
44:UM:320:ARG:HG3	44:UM:320:ARG:HH11	1.70	0.57
45:UN:397:TRP:O	45:UN:401:GLU:HG3	2.05	0.57
44:VC:12:GLY:O	44:VC:16:VAL:N	2.20	0.57
44:VC:316:SER:CB	44:VC:352:LYS:HB3	2.34	0.57
45:VD:318:ARG:HD3	45:VD:358:PRO:HG3	1.86	0.57
44:VE:71:GLU:OE1	44:VE:73:THR:HB	2.04	0.57
44:VE:167:LEU:HD21	44:VE:255:PHE:CD2	2.40	0.57
44:VE:325:PRO:HG3	45:VH:222:TYR:CD2	2.39	0.57
45:VF:133:PHE:HB2	45:VF:164:MET:CE	2.34	0.57
45:VF:192:LEU:HD12	45:VF:196:ALA:HB2	1.87	0.57
44:VG:348:PRO:HD2	45:VJ:388:MET:CE	2.35	0.57
45:VH:107:THR:CG2	45:VH:401:GLU:HB3	2.31	0.57
44:VI:278:ALA:HB2	44:VI:369:ALA:CB	2.35	0.57
45:VJ:31:ASP:OD2	45:VJ:37:HIS:ND1	2.37	0.57
45:VJ:410:GLU:O	45:VJ:413:SER:OG	2.11	0.57
44:VK:3:GLU:OE1	44:VK:130:THR:N	2.33	0.57
44:VM:115:VAL:O	44:VM:119:LEU:HD23	2.05	0.57
44:WA:70:LEU:HD13	44:WA:110:ILE:HD12	1.87	0.57
44:WA:269:LEU:H	44:WA:269:LEU:HD23	1.70	0.57
45:WB:143:THR:HG22	48:WB:501:GDP:O2B	2.05	0.57
44:WC:183:GLU:N	44:WC:184:PRO:HD2	2.20	0.57
44:WC:291:ILE:HG13	44:WC:292:THR:N	2.19	0.57
44:WE:11:GLN:OE1	45:WF:246:LEU:HG	2.03	0.57
45:WF:290:THR:HG21	45:WF:329:GLN:OE1	2.05	0.57
45:WF:383:GLU:O	45:WF:386:THR:HG22	2.05	0.57
44:WG:320:ARG:HD3	44:WG:360:PRO:CG	2.35	0.57
45:WJ:19:LYS:O	45:WJ:22:GLU:N	2.36	0.57
45:WJ:119:VAL:O	45:WJ:123:GLU:HG2	2.04	0.57
44:WK:185:TYR:O	44:WK:189:LEU:HD23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:260:VAL:HG13	44:WK:260:VAL:O	2.04	0.57
44:WK:272:TYR:HD1	44:WK:376:CYS:HB2	1.68	0.57
44:WM:3:GLU:HA	44:WM:51:THR:CG2	2.33	0.57
44:WM:296:PHE:HD2	44:WM:335:ILE:HD12	1.69	0.57
44:WM:404:PHE:CZ	45:WN:259:PRO:HA	2.40	0.57
45:WN:211:CYS:SG	45:WN:228:LEU:HD11	2.44	0.57
1:6H:295:GLN:CD	45:FH:362:LYS:N	2.58	0.57
16:0X:49:ILE:HD11	44:MA:282:TYR:HB3	1.87	0.57
20:1J:183:GLN:HA	44:IG:219:ILE:HD13	1.87	0.57
26:1R:458:ILE:HD11	45:FD:276:ARG:CG	2.34	0.57
14:1U:238:SER:HA	45:WF:33:THR:CG2	2.34	0.57
22:2L:892:ARG:HH12	44:CK:367:ASP:HA	1.69	0.57
2:3A:124:LEU:HD22	45:AN:279:GLN:NE2	2.18	0.57
28:3C:9:ASN:OD1	35:7R:3:TYR:HA	2.03	0.57
12:3S:140:ARG:HH12	11:5Q:149:ILE:HG22	1.70	0.57
34:4F:203:ILE:HD12	44:HM:89:PRO:HG3	1.85	0.57
37:5A:43:CYS:SG	45:KB:391:ARG:NE	2.78	0.57
37:5A:127:GLU:HB3	45:ND:276:ARG:NH1	2.05	0.57
37:5C:40:VAL:HG12	44:KG:264:ARG:CB	2.34	0.57
35:5R:318:TYR:CE2	45:CJ:215:LEU:HD21	2.21	0.57
41:6G:141:VAL:CB	44:VG:308:ARG:HH12	2.17	0.57
41:6G:227:PRO:HA	44:UE:123:ARG:NH1	2.20	0.57
11:6Q:115:LYS:HZ3	44:AM:264:ARG:HH11	1.52	0.57
35:6R:462:ASN:ND2	45:FN:219:THR:O	2.37	0.57
35:7R:71:LYS:NZ	35:7R:72:ALA:H	2.03	0.57
35:7R:430:LEU:HD12	35:7R:502:ARG:O	2.05	0.57
35:7R:435:LYS:HG3	35:7R:438:ASN:ND2	2.20	0.57
35:7R:453:ILE:HB	35:7R:474:MET:O	2.04	0.57
35:7R:547:GLU:O	35:7R:551:LEU:N	2.28	0.57
42:8L:280:UNK:O	42:8L:283:UNK:N	2.38	0.57
44:AC:246:GLY:HA2	44:AC:357:TYR:CE2	2.40	0.57
44:AE:132:LEU:CD1	44:AE:164:LYS:HG2	2.34	0.57
44:AE:200:VAL:HG13	44:AE:268:MET:HE1	1.85	0.57
45:AF:211:CYS:HA	45:AF:215:LEU:HD12	1.86	0.57
44:AI:275:ILE:HG23	44:AI:368:LEU:CD1	2.35	0.57
45:AL:12:CYS:SG	45:AL:138:SER:HB2	2.45	0.57
44:AM:433:GLU:O	44:AM:437:ILE:HG23	2.05	0.57
44:BC:51:THR:CG2	44:BC:243:ARG:HD3	2.26	0.57
45:BD:81:PHE:O	45:BD:84:LEU:HD13	2.05	0.57
45:BD:101:TRP:CZ3	45:BD:187:LEU:HD22	2.39	0.57
45:BF:223:GLY:HA2	45:BF:226:ASN:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BI:320:ARG:NE	44:BI:360:PRO:HG3	2.20	0.57
44:BK:252:ILE:HA	44:BK:255:PHE:HD1	1.69	0.57
45:BL:193:VAL:HG23	45:BL:264:HIS:CE1	2.40	0.57
44:BM:35:GLN:HA	44:BM:60:LYS:HA	1.86	0.57
44:CA:239:THR:HG1	44:CA:243:ARG:HH21	1.45	0.57
45:CB:5:VAL:HG11	45:CB:123:GLU:HB3	1.86	0.57
44:CC:13:GLY:HA2	44:CC:16:VAL:CG1	2.35	0.57
44:CC:420:GLU:O	44:CC:423:GLU:HG2	2.04	0.57
44:CG:7:ILE:HG21	44:CG:153:LEU:CD2	2.35	0.57
44:CI:13:GLY:O	44:CI:16:VAL:HG12	2.04	0.57
44:CI:46:ASP:OD1	44:CI:47:ASP:N	2.38	0.57
44:CI:124:LYS:HA	44:CI:127:ASP:OD2	2.05	0.57
44:CK:432:TYR:O	44:CK:435:VAL:HG12	2.04	0.57
44:CM:278:ALA:HA	44:CM:369:ALA:HB2	1.86	0.57
45:CN:131:GLN:O	45:CN:162:ARG:HD3	2.05	0.57
45:CN:235:GLY:O	45:CN:316:LEU:HD22	2.04	0.57
44:DA:63:PRO:HG3	44:DA:86:LEU:CG	2.35	0.57
44:DA:240:ALA:HB1	44:DA:244:PHE:CD2	2.37	0.57
45:DB:91:VAL:CG2	45:DB:112:LEU:HD21	2.34	0.57
44:DC:102:ASN:ND2	44:DC:411:GLU:HG3	2.20	0.57
44:DE:11:GLN:HB3	44:DE:69:ASP:OD2	2.05	0.57
44:DE:288:VAL:HG11	44:DE:327:ASP:CG	2.25	0.57
45:DF:246:LEU:HA	44:DG:11:GLN:NE2	2.19	0.57
45:DF:279:GLN:HG2	45:DF:361:LEU:HD21	1.86	0.57
44:DG:278:ALA:HB2	44:DG:369:ALA:HB2	1.87	0.57
45:DH:101:TRP:HZ3	45:DH:187:LEU:HD13	1.70	0.57
45:DH:113:ILE:HD13	45:DH:150:LEU:HD22	1.85	0.57
45:DH:271:ALA:HB3	45:DH:365:VAL:HG22	1.87	0.57
45:DJ:210:ILE:O	45:DJ:214:THR:OG1	2.07	0.57
44:DK:298:PRO:HB3	44:DK:307:PRO:CD	2.35	0.57
45:DL:177:ASP:N	45:DL:181:GLU:OE2	2.34	0.57
45:DL:380:ARG:O	45:DL:383:GLU:HB3	2.05	0.57
44:DM:294:SER:HA	44:DM:297:GLU:CG	2.35	0.57
44:DM:350:GLY:HA2	45:DN:179:VAL:CG1	2.32	0.57
45:DN:295:ASP:OD1	45:DN:296:ALA:N	2.37	0.57
45:EB:66:MET:HA	45:EB:91:VAL:HG13	1.85	0.57
45:EB:169:VAL:HA	45:EB:202:ILE:O	2.03	0.57
45:EB:268:ILE:CG1	45:EB:300:MET:HG2	2.35	0.57
45:EB:377:MET:HA	45:EB:380:ARG:HG2	1.87	0.57
45:EB:395:LEU:CG	45:EB:399:THR:HG23	2.33	0.57
44:EC:108:TYR:HA	44:EC:112:LYS:CE	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:358:PRO:HG2	45:ED:364:ALA:CB	2.32	0.57
45:EF:36:TYR:CZ	45:EF:38:GLY:HA3	2.40	0.57
45:EH:124:ALA:HA	45:EH:130:LEU:HD21	1.86	0.57
44:EI:212:ILE:HD13	44:EI:215:ARG:HH22	1.70	0.57
45:EL:107:THR:HG23	45:EL:108:GLU:H	1.68	0.57
45:EL:112:LEU:HD23	45:EL:112:LEU:O	2.05	0.57
44:EM:171:ILE:HG12	44:EM:204:LEU:HB3	1.87	0.57
45:EN:68:LEU:O	45:EN:93:GLY:N	2.37	0.57
45:EN:172:SER:HB3	45:EN:203:ASP:CG	2.25	0.57
45:EN:178:THR:HB	45:EN:181:GLU:HG3	1.87	0.57
45:FB:7:ILE:HB	45:FB:135:ILE:HD13	1.87	0.57
45:FD:70:PRO:O	45:FD:74:ASP:N	2.37	0.57
45:FH:174:LYS:HD2	45:FH:175:VAL:HG13	1.87	0.57
44:FI:119:LEU:HD11	44:FI:157:LEU:HD23	1.87	0.57
45:FJ:113:ILE:HA	45:FJ:116:VAL:HG12	1.85	0.57
45:FN:217:LEU:HD11	45:FN:220:PRO:CD	2.35	0.57
44:GA:229:ARG:HA	44:GA:232:ALA:HB3	1.85	0.57
44:GA:287:SER:HA	44:GA:373:ARG:HH21	1.69	0.57
44:GC:272:TYR:CD1	44:GC:376:CYS:HB2	2.40	0.57
45:GD:19:LYS:O	45:GD:22:GLU:HG2	2.04	0.57
45:GD:55:THR:HG21	45:HD:280:GLN:OE1	2.04	0.57
45:GD:139:LEU:HD13	45:GD:168:SER:CB	2.34	0.57
45:GH:374:ILE:HD11	45:GH:422:TYR:CZ	2.40	0.57
44:GI:183:GLU:OE2	45:GJ:347:ASN:ND2	2.30	0.57
45:GL:374:ILE:HD11	45:GL:422:TYR:CZ	2.40	0.57
44:GM:317:MET:HA	44:GM:376:CYS:O	2.05	0.57
45:HB:22:GLU:OE2	45:HB:80:PRO:HB2	2.05	0.57
45:HB:32:PRO:HA	45:HB:84:LEU:HD11	1.85	0.57
44:HE:271:SER:HA	44:HE:302:MET:HG3	1.87	0.57
44:HI:407:TRP:CZ3	45:HJ:255:VAL:HA	2.39	0.57
45:HJ:8:GLN:O	45:HJ:66:MET:HG2	2.05	0.57
44:HK:217:LEU:O	44:HK:277:SER:HB3	2.04	0.57
44:HK:317:MET:HG3	44:HK:319:TYR:CE1	2.39	0.57
44:HM:223:THR:HB	45:HN:322:SER:CB	2.35	0.57
45:IB:28:HIS:CE1	45:IB:47:ILE:HD13	2.40	0.57
45:IB:133:PHE:HB2	45:IB:164:MET:HG2	1.86	0.57
45:IB:254:ALA:HA	45:IB:257:LEU:HG	1.87	0.57
44:IC:324:VAL:HG22	44:IC:325:PRO:HD2	1.87	0.57
44:IG:19:ALA:HA	44:IG:22:GLU:OE1	2.04	0.57
44:IG:326:LYS:HG2	45:IJ:220:PRO:HD2	1.86	0.57
45:IH:274:THR:HB	45:IH:282:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:11:GLN:HB2	45:IJ:72:THR:HB	1.85	0.57
44:IK:352:LYS:HD2	45:IN:177:ASP:O	2.05	0.57
44:IM:69:ASP:OD2	44:IM:71:GLU:N	2.35	0.57
44:IM:315:CYS:HA	44:IM:378:ILE:O	2.05	0.57
45:IN:36:TYR:CD2	45:IN:44:LEU:HD21	2.40	0.57
45:IN:131:GLN:C	45:IN:162:ARG:HD3	2.24	0.57
44:JA:3:GLU:HB2	44:JA:129:CYS:SG	2.45	0.57
44:JA:393:HIS:O	44:JA:397:LEU:HD13	2.05	0.57
44:JA:430:LYS:O	44:JA:433:GLU:HG2	2.05	0.57
44:JG:139:ASN:OD1	44:JG:170:THR:HG22	2.04	0.57
44:JG:335:ILE:HA	44:JG:338:LYS:NZ	2.20	0.57
44:JK:217:LEU:HD11	44:JK:367:ASP:HB3	1.86	0.57
45:JL:4:ILE:HD11	45:JL:50:TYR:OH	2.05	0.57
45:JL:245:GLN:C	45:JL:246:LEU:HD12	2.25	0.57
44:JM:143:GLY:HA3	46:JM:501:GTP:O2B	2.05	0.57
44:JM:384:ILE:O	44:JM:387:VAL:HG22	2.04	0.57
45:JN:7:ILE:HB	45:JN:135:ILE:HD12	1.87	0.57
45:JN:49:VAL:CG1	45:JN:241:ARG:HG2	2.26	0.57
45:JN:242:PHE:CD2	45:JN:356:ILE:HG21	2.40	0.57
44:KA:254:GLU:OE1	45:KD:99:ASN:ND2	2.38	0.57
44:KC:46:ASP:HB2	44:KC:50:ASN:ND2	2.20	0.57
44:KC:435:VAL:HG12	44:KC:435:VAL:O	2.05	0.57
45:KF:269:GLY:HA2	45:KF:300:MET:HE2	1.87	0.57
45:KF:380:ARG:HG3	45:KF:381:VAL:N	2.20	0.57
44:KG:326:LYS:HD3	45:KJ:220:PRO:HD2	1.86	0.57
45:KJ:293:MET:HE1	45:KJ:367:PHE:HB3	1.87	0.57
45:KL:152:ILE:HD12	45:KL:164:MET:CE	2.34	0.57
45:KL:202:ILE:O	45:KL:202:ILE:HG13	2.05	0.57
45:KL:325:GLU:O	45:KL:329:GLN:HG2	2.05	0.57
44:KM:185:TYR:CE1	44:KM:398:MET:HG3	2.39	0.57
44:KM:277:SER:OG	44:KM:279:GLU:HG2	2.05	0.57
44:LA:216:ASN:O	44:LA:277:SER:HB3	2.05	0.57
44:LA:311:LYS:H	44:LA:382:THR:HG1	1.50	0.57
44:LC:268:MET:CB	44:LC:380:ASN:HB2	2.34	0.57
45:LF:94:GLN:O	45:LF:94:GLN:HG2	2.05	0.57
44:LG:285:GLN:NE2	44:LG:287:SER:HB2	2.19	0.57
45:LJ:1:MET:O	45:LJ:2:ARG:HG2	2.05	0.57
45:LJ:8:GLN:OE1	45:LJ:17:GLY:HA3	2.05	0.57
44:LM:117:LEU:O	44:LM:121:ARG:N	2.30	0.57
45:LN:64:ILE:HD12	45:LN:119:VAL:HG12	1.86	0.57
45:MB:5:VAL:HG23	45:MB:62:ARG:CG	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:30:ILE:HD12	45:MB:59:TYR:CD2	2.39	0.57
45:MD:214:THR:O	45:MD:275:SER:HB3	2.04	0.57
45:MD:286:VAL:HG21	45:MD:325:GLU:CB	2.31	0.57
44:ME:179:THR:HG23	45:MF:351:SER:OG	2.04	0.57
44:ME:205:ASP:OD1	44:ME:303:ALA:HA	2.04	0.57
44:ME:392:ASP:HA	44:ME:425:LEU:CD2	2.35	0.57
45:MH:334:GLN:HE22	45:MH:347:ASN:CA	2.18	0.57
44:MI:265:ILE:O	44:MI:265:ILE:HG23	2.04	0.57
44:MI:326:LYS:HE3	44:MI:326:LYS:CA	2.21	0.57
45:MJ:341:PHE:HB3	45:MJ:348:ASN:ND2	2.17	0.57
44:MM:69:ASP:OD1	44:MM:70:LEU:N	2.38	0.57
44:MM:174:SER:OG	44:MM:207:GLU:HB2	2.05	0.57
44:MM:174:SER:HB2	44:MM:177:VAL:HB	1.87	0.57
44:MM:291:ILE:HG13	44:MM:292:THR:N	2.20	0.57
45:MN:232:ALA:O	45:MN:235:GLY:N	2.37	0.57
44:NA:311:LYS:HE2	44:NA:438:GLU:OE2	2.04	0.57
44:NA:319:TYR:CD2	44:NA:375:VAL:HB	2.40	0.57
45:NB:66:MET:HE1	45:NB:116:VAL:HG21	1.87	0.57
45:NB:200:MET:HE1	45:NB:266:PHE:CD2	2.40	0.57
45:NB:317:PHE:CE1	45:NB:326:VAL:HG13	2.39	0.57
45:NF:124:ALA:HB1	45:NF:130:LEU:HD12	1.87	0.57
45:NH:208:TYR:HA	45:NH:211:CYS:SG	2.45	0.57
45:NH:279:GLN:HB2	45:NH:281:TYR:CE1	2.40	0.57
44:NI:181:VAL:CG2	45:NJ:345:ILE:HD11	2.34	0.57
44:NI:183:GLU:N	44:NI:184:PRO:HD2	2.19	0.57
44:NI:257:THR:HA	45:NL:397:TRP:CH2	2.39	0.57
44:NI:259:LEU:HD23	44:NI:268:MET:SD	2.44	0.57
45:NJ:8:GLN:NE2	45:NJ:65:LEU:HG	2.20	0.57
44:NK:101:ASN:HA	44:NK:144:GLY:CA	2.34	0.57
45:NN:32:PRO:HB3	45:NN:81:PHE:CD1	2.39	0.57
44:OA:184:PRO:O	44:OA:188:ILE:N	2.29	0.57
44:OA:224:TYR:H	45:OB:323:THR:HG21	1.70	0.57
44:OA:384:ILE:O	44:OA:387:VAL:HG22	2.04	0.57
45:OB:45:GLU:O	45:OB:46:ARG:HD3	2.05	0.57
45:OB:229:VAL:HG12	45:OB:233:MET:CG	2.34	0.57
44:OC:34:GLY:O	44:OC:60:LYS:HA	2.04	0.57
44:OC:179:THR:O	45:OD:350:LYS:HA	2.05	0.57
44:OE:7:ILE:CB	44:OE:137:VAL:HG12	2.22	0.57
45:OH:21:TRP:HA	45:OH:24:ILE:HG22	1.87	0.57
45:OJ:257:LEU:O	45:OJ:312:THR:HG21	2.05	0.57
45:OJ:308:GLY:HA3	45:OJ:372:THR:OG1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:398:TYR:O	45:OJ:403:MET:HB2	2.04	0.57
44:OK:36:MET:HG2	44:OK:37:PRO:HD2	1.86	0.57
44:OK:422:ARG:O	44:OK:426:ALA:N	2.28	0.57
45:OL:101:TRP:O	45:OL:104:GLY:N	2.36	0.57
44:OM:171:ILE:HG23	44:OM:204:LEU:O	2.05	0.57
44:OM:185:TYR:OH	44:OM:403:ALA:O	2.10	0.57
44:PA:66:VAL:HG23	44:PA:91:GLN:HB2	1.86	0.57
44:PA:102:ASN:OD1	44:PA:411:GLU:HG3	2.05	0.57
44:PA:256:GLN:HE22	45:PD:397:TRP:HH2	1.51	0.57
45:PB:262:ARG:NH1	45:PB:421:GLU:OE1	2.38	0.57
44:PC:387:VAL:HA	44:PC:390:ARG:HG2	1.86	0.57
44:PC:414:GLU:HB2	44:PC:417:GLU:CG	2.35	0.57
45:PD:318:ARG:HB3	45:PD:357:PRO:CA	2.31	0.57
45:PF:8:GLN:NE2	45:PF:14:ASN:HA	2.19	0.57
45:PF:68:LEU:HD23	45:PF:97:ALA:CA	2.31	0.57
44:PG:89:PRO:HG3	44:QG:280:LYS:CG	2.34	0.57
45:PH:112:LEU:HD23	45:PH:112:LEU:O	2.05	0.57
44:PK:156:ARG:O	44:PK:159:VAL:HG12	2.04	0.57
44:PK:271:SER:HB2	44:PK:377:MET:SD	2.44	0.57
44:QA:66:VAL:HG22	44:QA:68:LEU:CD1	2.35	0.57
44:QA:179:THR:HB	46:QA:501:GTP:O3'	2.05	0.57
44:QA:235:ILE:O	44:QA:239:THR:N	2.36	0.57
44:QA:254:GLU:CD	45:QB:98:GLY:HA2	2.25	0.57
45:QB:40:SER:O	45:QB:43:GLN:CG	2.52	0.57
45:QB:133:PHE:O	45:QB:165:GLU:N	2.36	0.57
45:QB:310:TYR:N	45:QB:340:TYR:O	2.37	0.57
44:QC:55:GLU:HG3	44:QC:57:GLY:H	1.69	0.57
44:QC:104:ALA:HA	44:QC:413:MET:SD	2.45	0.57
45:QD:262:ARG:HA	45:QD:264:HIS:CE1	2.40	0.57
44:QE:349:THR:O	44:QE:349:THR:HG23	2.05	0.57
45:QJ:97:ALA:CB	45:QJ:143:THR:HG22	2.35	0.57
45:QJ:178:THR:HG22	45:QJ:180:VAL:H	1.69	0.57
45:QL:113:ILE:HD13	45:QL:150:LEU:CD2	2.35	0.57
45:QL:258:ILE:HG13	45:QL:266:PHE:HZ	1.69	0.57
45:QL:313:ALA:HB1	45:QL:349:ILE:HG23	1.87	0.57
45:RB:68:LEU:HA	45:RB:93:GLY:HA3	1.87	0.57
45:RB:221:THR:HG23	45:RB:223:GLY:N	2.19	0.57
45:RB:253:LEU:HD21	45:RB:316:LEU:HD11	1.86	0.57
45:RB:282:ARG:NH2	45:RB:288:GLU:HB3	2.19	0.57
45:RB:290:THR:HG21	45:RB:329:GLN:OE1	2.05	0.57
45:RD:46:ARG:HH21	44:RE:73:THR:HA	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:172:SER:OG	45:RD:175:VAL:HG22	2.05	0.57
44:RE:89:PRO:HB3	44:SE:280:LYS:HG3	1.86	0.57
44:RE:140:SER:CB	44:RE:171:ILE:HD11	2.34	0.57
45:RF:101:TRP:CE2	45:RF:187:LEU:HB3	2.40	0.57
45:RF:260:PHE:HB3	45:RF:261:PRO:HD2	1.87	0.57
45:RF:323:THR:O	45:RF:326:VAL:HG12	2.05	0.57
44:RG:195:LEU:HD12	44:RG:266:HIS:CD2	2.39	0.57
45:RJ:156:ARG:HD2	45:RJ:195:ASN:O	2.05	0.57
45:RJ:285:THR:CG2	45:RJ:288:GLU:H	2.17	0.57
45:RJ:321:MET:HB2	44:RK:221:ARG:NH2	2.19	0.57
45:RJ:325:GLU:HG3	45:RJ:328:GLU:OE2	2.05	0.57
44:RM:19:ALA:HA	44:RM:22:GLU:OE1	2.05	0.57
44:RM:257:THR:HA	45:RN:397:TRP:CZ2	2.40	0.57
44:RM:310:GLY:HA3	44:RM:383:ALA:CB	2.32	0.57
44:RM:325:PRO:HG3	44:RM:355:ILE:CD1	2.32	0.57
44:SA:183:GLU:HG2	44:SA:184:PRO:HD3	1.87	0.57
44:SA:324:VAL:HB	44:SA:327:ASP:OD2	2.05	0.57
44:SC:276:ILE:CG1	44:SC:281:ALA:HA	2.33	0.57
45:SD:12:CYS:HB2	48:SD:501:GDP:N9	2.19	0.57
45:SD:321:MET:SD	45:SD:353:ILE:HG12	2.45	0.57
44:SE:327:ASP:O	44:SE:331:SER:N	2.38	0.57
44:SG:276:ILE:HD11	44:SG:280:LYS:O	2.04	0.57
44:SI:2:ARG:N	44:SI:2:ARG:HD3	2.19	0.57
45:SJ:315:ALA:O	45:SJ:316:LEU:HD12	2.05	0.57
45:SJ:415:MET:O	45:SJ:419:VAL:HG23	2.05	0.57
44:SK:132:LEU:HD22	44:SK:164:LYS:NZ	2.20	0.57
44:SK:259:LEU:HD11	44:SK:316:SER:CB	2.34	0.57
44:SK:259:LEU:HD11	44:SK:316:SER:OG	2.04	0.57
45:SL:138:SER:O	45:SL:145:SER:HA	2.05	0.57
44:SM:254:GLU:HG2	45:SN:98:GLY:CA	2.33	0.57
45:SN:100:ASN:HB3	45:SN:103:LYS:HE3	1.86	0.57
44:TA:118:CYS:O	44:TA:122:ILE:HG12	2.05	0.57
44:TA:268:MET:HG3	44:TA:378:ILE:CG2	2.35	0.57
44:TA:270:SER:HB3	44:TA:378:ILE:CD1	2.35	0.57
44:TA:286:LEU:HA	44:TA:290:GLU:OE2	2.05	0.57
45:TB:192:LEU:HD12	45:TB:196:ALA:HB2	1.87	0.57
45:TD:116:VAL:CA	45:TD:119:VAL:HG12	2.31	0.57
44:TE:196:GLU:OE2	44:TE:264:ARG:NH1	2.38	0.57
45:TF:227:HIS:O	45:TF:230:SER:N	2.37	0.57
45:TJ:113:ILE:HD12	45:TJ:150:LEU:HD22	1.87	0.57
45:TJ:294:PHE:CD1	45:TJ:333:VAL:HG11	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:11:GLN:HB3	46:TK:501:GTP:PA	2.45	0.57
45:TL:193:VAL:HA	45:TL:264:HIS:HE1	1.69	0.57
45:TL:268:ILE:HG22	45:TL:368:VAL:CG2	2.28	0.57
45:TN:38:GLY:HA3	45:TN:43:GLN:NE2	2.20	0.57
45:TN:138:SER:C	45:TN:139:LEU:HD12	2.25	0.57
45:UB:199:CYS:HB3	45:UB:265:PHE:HA	1.86	0.57
45:UB:268:ILE:HG22	45:UB:368:VAL:HA	1.86	0.57
45:UD:213:ARG:HH21	45:UD:297:LYS:NZ	2.03	0.57
45:UF:324:LYS:HE3	44:UG:210:TYR:CD2	2.40	0.57
44:UG:233:GLN:HA	44:UG:236:SER:HB3	1.86	0.57
45:UJ:32:PRO:HG3	45:UJ:81:PHE:CE2	2.40	0.57
45:UJ:255:VAL:HG21	44:UK:100:ALA:O	2.04	0.57
45:UL:337:ASN:OD1	45:UL:340:TYR:HB2	2.04	0.57
44:UM:16:VAL:HA	44:UM:228:ASN:HB3	1.87	0.57
45:UN:44:LEU:HD22	45:UN:47:ILE:HG21	1.86	0.57
45:VB:8:GLN:CD	45:VB:14:ASN:HA	2.25	0.57
45:VB:21:TRP:HZ2	45:VB:63:ALA:HB2	1.69	0.57
45:VB:65:LEU:HD22	45:VB:90:PHE:CE1	2.40	0.57
45:VD:290:THR:HA	45:VD:293:MET:HG2	1.86	0.57
45:VD:374:ILE:HA	45:VD:377:MET:HE1	1.87	0.57
45:VF:116:VAL:O	45:VF:119:VAL:HG12	2.05	0.57
44:VG:102:ASN:ND2	44:VG:411:GLU:HG3	2.20	0.57
44:VG:165:SER:HA	44:VG:199:ASP:OD2	2.05	0.57
44:VG:288:VAL:HG11	44:VG:327:ASP:CB	2.29	0.57
44:VG:404:PHE:CE1	45:VH:259:PRO:HA	2.40	0.57
44:VI:209:ILE:HA	44:VI:212:ILE:HG22	1.86	0.57
44:VI:352:LYS:HA	45:VL:177:ASP:O	2.05	0.57
44:VK:261:PRO:HA	45:VN:394:PHE:CE1	2.40	0.57
44:VK:269:LEU:HD23	44:VK:269:LEU:H	1.70	0.57
44:VK:302:MET:O	44:VK:302:MET:HG2	2.04	0.57
44:VK:426:ALA:O	44:VK:430:LYS:N	2.28	0.57
44:VM:69:ASP:OD2	44:VM:74:VAL:HG21	2.05	0.57
45:VN:210:ILE:HD11	45:VN:299:MET:O	2.05	0.57
44:WA:151:SER:O	44:WA:154:LEU:N	2.38	0.57
45:WB:170:VAL:O	45:WB:170:VAL:HG23	2.04	0.57
44:WC:13:GLY:CA	44:WC:16:VAL:HG12	2.35	0.57
44:WC:71:GLU:CD	44:WC:73:THR:H	2.09	0.57
44:WC:178:SER:OG	45:WD:347:ASN:HB3	2.04	0.57
44:WC:270:SER:HB3	44:WC:378:ILE:HD13	1.87	0.57
45:WD:274:THR:CB	45:WD:282:ARG:HH21	2.17	0.57
44:WE:219:ILE:HG21	44:WE:222:PRO:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:270:SER:O	44:WE:302:MET:HB3	2.04	0.57
45:WF:257:LEU:HD21	45:WF:314:SER:CB	2.35	0.57
44:WG:245:ASP:OD1	44:WG:246:GLY:N	2.38	0.57
44:WI:119:LEU:CG	44:WI:156:ARG:HD3	2.35	0.57
44:WI:340:THR:HG23	44:WI:341:ILE:HG13	1.87	0.57
44:WK:111:GLY:HA3	44:WK:152:LEU:CD2	2.35	0.57
44:WM:177:VAL:CG1	45:WN:327:ASP:HB3	2.33	0.57
44:WM:292:THR:HG21	44:WM:331:SER:HB3	1.85	0.57
45:WN:190:HIS:HD2	45:WN:191:GLN:OE1	1.88	0.57
45:WN:245:GLN:OE1	45:WN:323:THR:HG22	2.05	0.57
1:6H:382:PHE:CG	44:FK:364:PRO:CG	2.88	0.56
4:1C:89:PHE:HA	44:EM:229:ARG:HH22	1.69	0.56
20:1J:295:GLY:HA3	44:IK:226:ASN:ND2	2.18	0.56
21:1K:36:LEU:HD11	44:KC:333:ALA:CB	2.35	0.56
24:2O:260:LEU:HB3	44:VG:282:TYR:CZ	2.40	0.56
27:2W:240:PHE:CZ	35:6R:15:HIS:NE2	2.72	0.56
16:2X:30:GLU:HG2	45:ML:217:LEU:HA	1.85	0.56
6:3E:53:LYS:CE	35:6R:382:TYR:HE1	2.18	0.56
14:3U:193:LYS:HB2	45:WN:80:PRO:HD3	1.87	0.56
34:4F:24:PRO:HD3	44:HI:225:THR:HG22	1.86	0.56
34:4F:122:TRP:CZ3	45:IL:43:GLN:HG3	2.40	0.56
34:4F:131:LYS:CE	44:IK:365:GLY:HA3	2.33	0.56
37:5D:59:TYR:C	45:KN:382:ALA:HB1	2.24	0.56
38:5H:24:ASP:OD2	38:5H:29:LYS:HB2	2.05	0.56
35:5R:582:TYR:O	35:5R:585:ILE:N	2.35	0.56
36:5S:162:LEU:HD11	36:5S:221:THR:HG21	1.86	0.56
41:6G:92:LEU:HD11	44:UK:95:GLY:O	2.04	0.56
35:7R:274:TYR:HB3	35:7R:287:ILE:HG23	1.87	0.56
35:7R:429:LYS:HG2	35:7R:430:LEU:N	2.19	0.56
43:8P:178:UNK:O	43:8P:182:UNK:N	2.38	0.56
44:AA:36:MET:HB2	44:AA:61:HIS:CE1	2.38	0.56
44:AC:4:VAL:HB	44:AC:134:GLY:O	2.05	0.56
44:AC:271:SER:HA	44:AC:302:MET:HG3	1.86	0.56
45:AF:137:HIS:O	45:AF:168:SER:HA	2.05	0.56
45:AF:165:GLU:OE2	45:AF:250:LEU:HD22	2.05	0.56
45:AH:132:GLY:HA3	45:AH:163:ILE:CG2	2.35	0.56
44:AI:11:GLN:HG3	44:AI:74:VAL:CG1	2.31	0.56
44:AI:63:PRO:CD	44:AI:86:LEU:HG	2.34	0.56
45:AJ:178:THR:N	45:AJ:181:GLU:OE2	2.38	0.56
45:AL:192:LEU:HD21	45:AL:199:CYS:SG	2.45	0.56
45:AL:395:LEU:O	45:AL:399:THR:HG23	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:203:MET:HE3	44:BA:267:PHE:HB3	1.87	0.56
45:BD:156:ARG:NH1	45:BD:195:ASN:O	2.38	0.56
45:BD:260:PHE:HB3	45:BD:261:PRO:HD2	1.87	0.56
44:BE:387:VAL:O	44:BE:390:ARG:HG2	2.05	0.56
45:BF:5:VAL:HG22	45:BF:133:PHE:CD1	2.40	0.56
44:BG:221:ARG:HE	45:BH:322:SER:CB	2.17	0.56
45:BJ:97:ALA:HB2	45:BJ:143:THR:HB	1.87	0.56
44:BK:98:ASP:HB3	45:BL:249:ASP:OD2	2.05	0.56
45:BL:282:ARG:HG2	45:BL:282:ARG:HH11	1.69	0.56
44:BM:312:TYR:C	44:BM:344:VAL:HG23	2.26	0.56
45:BN:306:ARG:HG3	45:BN:307:HIS:HD2	1.69	0.56
45:CB:2:ARG:NH2	45:CB:240:LEU:HG	2.20	0.56
45:CB:285:THR:OG1	45:CB:287:PRO:HD2	2.04	0.56
45:CB:322:SER:HB2	44:CC:222:PRO:O	2.04	0.56
45:CD:164:MET:CE	45:CD:196:ALA:HA	2.35	0.56
45:CD:309:ARG:NH1	45:CD:342:VAL:HA	2.20	0.56
44:CE:216:ASN:HB3	44:CE:275:ILE:HG22	1.87	0.56
45:CF:62:ARG:O	45:CF:62:ARG:HG3	2.04	0.56
45:CF:260:PHE:HA	44:CG:406:HIS:NE2	2.20	0.56
44:CG:269:LEU:H	44:CG:269:LEU:HD23	1.70	0.56
45:CH:248:SER:CA	45:CH:252:LYS:HD2	2.31	0.56
44:CI:145:THR:HG21	46:CI:501:GTP:O3G	2.05	0.56
44:CI:169:PHE:CE1	44:CI:202:VAL:HB	2.40	0.56
45:CJ:69:GLU:OE1	45:CJ:71:GLY:N	2.37	0.56
44:CK:270:SER:O	44:CK:302:MET:HG2	2.04	0.56
45:CL:178:THR:O	45:CL:181:GLU:HG3	2.05	0.56
45:CL:232:ALA:O	45:CL:236:VAL:HG23	2.04	0.56
44:CM:2:ARG:O	44:CM:2:ARG:HD2	2.04	0.56
44:CM:329:ASN:HD22	45:CN:208:TYR:HE2	1.52	0.56
45:CN:287:PRO:HG3	45:CN:329:GLN:NE2	2.20	0.56
44:DA:331:SER:O	44:DA:335:ILE:HG12	2.04	0.56
45:DF:156:ARG:NH1	45:DF:162:ARG:O	2.38	0.56
44:DG:141:VAL:HG11	44:DG:172:TYR:HD1	1.70	0.56
44:DG:273:ALA:HB1	44:DG:274:PRO:HA	1.87	0.56
45:DH:3:GLU:OE2	45:DH:127:CYS:HB2	2.05	0.56
44:DI:165:SER:OG	44:DI:256:GLN:NE2	2.38	0.56
44:DI:291:ILE:HG13	44:DI:292:THR:N	2.18	0.56
44:DI:372:MET:O	44:DI:373:ARG:HG3	2.05	0.56
45:DJ:58:ARG:HD2	45:EJ:280:GLN:NE2	2.20	0.56
45:DJ:86:ARG:HH22	45:EJ:282:ARG:HG3	1.70	0.56
44:DM:311:LYS:CE	44:DM:344:VAL:HA	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:327:ASP:O	45:DN:331:LEU:HB2	2.05	0.56
44:EA:71:GLU:OE1	44:EA:73:THR:HB	2.05	0.56
44:EA:186:ASN:OD1	44:EA:187:SER:N	2.38	0.56
44:EA:307:PRO:HB2	44:EA:312:TYR:CE1	2.40	0.56
45:EB:133:PHE:N	45:EB:164:MET:HE2	2.17	0.56
45:EB:404:ASP:OD1	45:EB:406:MET:N	2.38	0.56
44:EE:384:ILE:O	44:EE:387:VAL:HG22	2.04	0.56
45:EF:262:ARG:C	45:EF:263:LEU:HD23	2.25	0.56
45:EF:380:ARG:O	45:EF:383:GLU:N	2.38	0.56
45:EH:65:LEU:HD22	45:EH:90:PHE:CZ	2.39	0.56
44:EI:242:LEU:HD22	44:EI:252:ILE:HD11	1.86	0.56
44:EM:2:ARG:NH2	44:EM:242:LEU:O	2.38	0.56
44:EM:88:HIS:CB	44:EM:91:GLN:HE21	2.18	0.56
44:FA:21:TRP:CZ2	44:FA:65:ALA:HB2	2.40	0.56
45:FB:14:ASN:OD1	45:FB:65:LEU:HG	2.05	0.56
44:FE:208:ALA:O	44:FE:212:ILE:HG12	2.05	0.56
45:FF:97:ALA:CB	45:FF:143:THR:HB	2.35	0.56
44:FG:288:VAL:HA	44:FG:291:ILE:HG22	1.87	0.56
45:FH:113:ILE:O	45:FH:116:VAL:HG12	2.04	0.56
45:FH:197:ASP:O	45:FH:264:HIS:HB2	2.05	0.56
45:FH:210:ILE:HD11	45:FH:300:MET:HG3	1.86	0.56
44:FK:208:ALA:O	44:FK:211:ASP:HB2	2.04	0.56
44:FK:209:ILE:HG23	44:FK:302:MET:HE1	1.87	0.56
45:FL:16:ILE:O	45:FL:20:PHE:N	2.31	0.56
45:FL:104:GLY:HA3	45:FL:147:MET:SD	2.45	0.56
44:FM:210:TYR:CE1	44:FM:222:PRO:HG2	2.40	0.56
45:FN:288:GLU:O	45:FN:291:GLN:HG3	2.05	0.56
44:GA:338:LYS:HB3	44:GA:341:ILE:HG22	1.86	0.56
45:GB:116:VAL:O	45:GB:119:VAL:HG12	2.05	0.56
45:GB:133:PHE:HD2	45:GB:155:VAL:HG11	1.69	0.56
45:GB:267:MET:HE1	45:GB:371:SER:N	2.20	0.56
44:GC:209:ILE:HG12	44:GC:302:MET:CE	2.34	0.56
45:GD:87:PRO:CG	45:HD:278:SER:HB2	2.36	0.56
44:GG:363:VAL:CG1	44:GG:364:PRO:HD2	2.35	0.56
45:GH:334:GLN:HB2	45:GH:349:ILE:CD1	2.34	0.56
44:GK:185:TYR:HE2	44:GK:404:PHE:HB2	1.69	0.56
45:GL:198:GLU:OE2	45:GL:254:ALA:HB2	2.05	0.56
45:GL:278:SER:HA	45:GL:281:TYR:CD2	2.36	0.56
44:GM:161:TYR:CD2	44:GM:164:LYS:HG3	2.40	0.56
44:HA:319:TYR:CB	44:HA:323:VAL:HG11	2.35	0.56
45:HD:86:ARG:CD	45:ID:281:TYR:HB3	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HD:372:THR:O	45:HD:375:GLN:HG2	2.05	0.56
45:HF:21:TRP:O	45:HF:25:SER:OG	2.15	0.56
45:HF:330:MET:HB3	45:HF:349:ILE:HD11	1.85	0.56
44:HG:188:ILE:O	44:HG:191:THR:HG22	2.05	0.56
44:HG:269:LEU:HD23	44:HG:379:SER:O	2.05	0.56
45:HH:107:THR:HG23	45:HH:108:GLU:N	2.20	0.56
45:HL:12:CYS:HB3	45:HL:138:SER:HB2	1.85	0.56
45:HL:101:TRP:O	45:HL:104:GLY:N	2.37	0.56
44:HM:137:VAL:HG11	44:HM:154:LEU:HD21	1.87	0.56
44:HM:311:LYS:HB2	44:HM:382:THR:HG21	1.86	0.56
45:HN:7:ILE:HB	45:HN:135:ILE:CD1	2.34	0.56
44:IA:100:ALA:HB1	45:IB:255:VAL:CG2	2.34	0.56
44:IA:324:VAL:HG13	44:IA:325:PRO:HD2	1.87	0.56
45:IB:184:ASN:OD1	45:IB:185:ALA:N	2.37	0.56
45:IB:222:TYR:O	45:IB:226:ASN:ND2	2.38	0.56
45:IB:224:ASP:HA	45:IB:227:HIS:HB3	1.87	0.56
45:IB:389:PHE:CE2	45:IB:392:LYS:HE3	2.40	0.56
44:IC:53:PHE:C	44:IC:64:ARG:HH12	2.08	0.56
45:ID:3:GLU:HB2	45:ID:49:VAL:O	2.04	0.56
45:IF:201:VAL:O	45:IF:202:ILE:HD13	2.05	0.56
45:IH:164:MET:SD	45:IH:196:ALA:HA	2.45	0.56
44:II:103:PHE:HB3	44:II:408:TYR:HE2	1.70	0.56
44:II:152:LEU:O	44:II:156:ARG:HG2	2.05	0.56
44:II:230:LEU:HD11	44:II:275:ILE:HD11	1.86	0.56
44:II:262:TYR:OH	45:IL:391:ARG:O	2.20	0.56
44:IK:19:ALA:CB	44:IK:228:ASN:HB3	2.35	0.56
45:IL:7:ILE:CG1	45:IL:64:ILE:HD13	2.34	0.56
44:IM:330:ALA:O	44:IM:333:ALA:HB3	2.05	0.56
44:IM:362:VAL:HG21	44:IM:368:LEU:O	2.05	0.56
45:IN:54:ALA:CB	44:JK:285:GLN:HA	2.34	0.56
45:JD:16:ILE:HD13	45:JD:226:ASN:OD1	2.04	0.56
45:JD:54:ALA:HB2	45:KD:283:ALA:HB2	1.87	0.56
45:JF:22:GLU:HG2	45:JF:81:PHE:HD2	1.70	0.56
45:JF:49:VAL:HG21	45:JF:241:ARG:CG	2.32	0.56
45:JF:217:LEU:O	45:JF:220:PRO:HD3	2.05	0.56
45:JF:284:LEU:HD12	45:JF:362:LYS:HZ2	1.70	0.56
44:JG:277:SER:OG	44:JG:279:GLU:OE1	2.10	0.56
44:JG:319:TYR:CE1	44:JG:328:VAL:HG22	2.39	0.56
45:JH:4:ILE:HD11	45:JH:50:TYR:CE1	2.40	0.56
44:JK:205:ASP:OD2	44:JK:304:LYS:N	2.32	0.56
45:JL:318:ARG:HG2	45:JL:318:ARG:NH1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:75:ILE:O	44:JM:78:VAL:HG12	2.05	0.56
45:JN:224:ASP:O	45:JN:228:LEU:HG	2.05	0.56
44:KA:296:PHE:CE1	44:KA:377:MET:HE1	2.37	0.56
45:KB:213:ARG:HH11	45:KB:297:LYS:HD3	1.70	0.56
44:KC:64:ARG:HG2	44:KC:125:LEU:HD11	1.86	0.56
45:KD:20:PHE:CE2	45:KD:233:MET:HE3	2.40	0.56
44:KE:224:TYR:HD1	44:KE:227:LEU:HD12	1.70	0.56
44:KG:105:ARG:O	44:KG:110:ILE:HG12	2.05	0.56
45:KH:245:GLN:C	45:KH:246:LEU:HD12	2.25	0.56
44:KI:383:ALA:O	44:KI:386:GLU:HG2	2.04	0.56
45:KJ:316:LEU:HA	45:KJ:352:SER:OG	2.05	0.56
45:KJ:360:GLY:C	45:KJ:361:LEU:HD12	2.25	0.56
44:KK:104:ALA:CB	44:KK:413:MET:HG2	2.35	0.56
45:KN:175:VAL:O	45:KN:175:VAL:HG23	2.04	0.56
45:KN:246:LEU:HD22	45:KN:353:ILE:CD1	2.35	0.56
45:KN:330:MET:CE	45:KN:349:ILE:HG12	2.35	0.56
44:LA:69:ASP:OD2	44:LA:74:VAL:HG21	2.04	0.56
45:LH:178:THR:OG1	45:LH:181:GLU:HG3	2.05	0.56
44:LI:21:TRP:CZ3	44:LI:63:PRO:HB2	2.39	0.56
45:LJ:151:LEU:O	45:LJ:155:VAL:HG23	2.05	0.56
44:LK:349:THR:OG1	45:LN:176:SER:CB	2.52	0.56
45:LL:170:VAL:HG23	45:LL:171:PRO:HD2	1.86	0.56
44:LM:105:ARG:HA	44:LM:109:THR:HG21	1.86	0.56
44:LM:184:PRO:HB3	44:LM:394:LYS:HE3	1.87	0.56
45:LN:63:ALA:O	45:LN:64:ILE:HD13	2.05	0.56
45:LN:271:ALA:HB3	45:LN:365:VAL:CG2	2.35	0.56
44:MA:36:MET:O	44:MA:38:SER:N	2.37	0.56
45:MB:150:LEU:O	45:MB:154:LYS:HG2	2.04	0.56
44:ME:145:THR:HG22	46:ME:501:GTP:O3B	2.05	0.56
44:MG:328:VAL:O	44:MG:332:ILE:HG22	2.04	0.56
45:MH:187:LEU:HD23	45:MH:411:ALA:CB	2.34	0.56
45:MN:73:MET:CE	45:MN:92:PHE:HB3	2.35	0.56
45:MN:200:MET:SD	45:MN:266:PHE:HB2	2.45	0.56
44:NA:220:GLU:CG	44:NA:221:ARG:HH11	2.17	0.56
45:NB:136:THR:HG22	45:NB:167:PHE:CD2	2.39	0.56
44:NC:301:MET:HE2	44:NC:307:PRO:HG2	1.86	0.56
45:NF:105:HIS:CD2	45:NF:150:LEU:HB2	2.39	0.56
45:NJ:336:LYS:O	45:NJ:336:LYS:HG2	2.05	0.56
45:NL:65:LEU:HB3	45:NL:73:MET:HE3	1.86	0.56
44:NM:19:ALA:O	44:NM:22:GLU:HG2	2.05	0.56
44:NM:330:ALA:HA	44:NM:333:ALA:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:345:ILE:CG1	45:NN:348:ASN:HB3	2.35	0.56
44:OC:75:ILE:HD12	44:OC:75:ILE:H	1.70	0.56
45:OD:130:LEU:HD11	45:OD:133:PHE:CZ	2.40	0.56
44:OE:89:PRO:HG3	44:PE:280:LYS:HE3	1.87	0.56
45:OF:135:ILE:HG13	45:OF:152:ILE:CD1	2.35	0.56
44:OG:88:HIS:HE2	44:OG:90:GLU:HB3	1.69	0.56
44:OG:229:ARG:NH1	44:OG:363:VAL:HG11	2.20	0.56
44:OK:115:VAL:O	44:OK:119:LEU:N	2.33	0.56
45:OL:10:GLY:O	45:OL:14:ASN:ND2	2.38	0.56
45:OL:215:LEU:HD13	45:OL:217:LEU:HD11	1.87	0.56
44:OM:77:GLU:HA	44:OM:80:THR:OG1	2.05	0.56
44:OM:268:MET:HB3	44:OM:379:SER:O	2.05	0.56
45:ON:290:THR:O	45:ON:293:MET:HB2	2.05	0.56
45:ON:327:ASP:O	45:ON:331:LEU:HB2	2.03	0.56
45:PD:169:VAL:HA	45:PD:202:ILE:O	2.04	0.56
44:PE:383:ALA:O	44:PE:386:GLU:HG2	2.04	0.56
44:PG:175:PRO:HD2	44:PG:207:GLU:OE1	2.05	0.56
44:PG:183:GLU:HG2	44:PG:184:PRO:HD3	1.86	0.56
44:PG:205:ASP:OD1	44:PG:303:ALA:HA	2.05	0.56
44:PG:324:VAL:O	44:PG:327:ASP:N	2.36	0.56
45:PH:396:HIS:O	45:PH:399:THR:HG22	2.05	0.56
44:PI:203:MET:HG2	44:PI:268:MET:O	2.04	0.56
44:PI:289:ALA:O	44:PI:292:THR:HG22	2.04	0.56
45:PJ:266:PHE:CE1	45:PJ:370:ASN:HB2	2.40	0.56
45:PJ:286:VAL:HB	45:PJ:325:GLU:OE1	2.04	0.56
44:PK:103:PHE:HB3	44:PK:408:TYR:HE2	1.69	0.56
45:PN:314:SER:HA	45:PN:350:LYS:CB	2.33	0.56
45:PN:405:GLU:O	45:PN:409:THR:HG23	2.04	0.56
45:QD:127:CYS:SG	45:QD:130:LEU:HD13	2.45	0.56
45:QF:382:ALA:O	45:QF:386:THR:HG23	2.05	0.56
45:QH:169:VAL:HA	45:QH:202:ILE:O	2.05	0.56
45:QJ:344:TRP:CE3	45:QJ:345:ILE:HB	2.40	0.56
44:QK:11:GLN:HA	44:QK:14:ILE:CD1	2.35	0.56
45:QL:135:ILE:O	45:QL:166:THR:HA	2.06	0.56
44:QM:54:SER:HB3	44:QM:64:ARG:NH2	2.20	0.56
44:QM:194:LEU:HB2	44:QM:198:THR:OG1	2.05	0.56
45:RB:1:MET:SD	45:RB:2:ARG:HD3	2.45	0.56
45:RD:249:ASP:OD2	44:RE:98:ASP:HB3	2.05	0.56
44:RE:72:PRO:HG3	44:RE:95:GLY:O	2.04	0.56
45:RF:321:MET:HE1	45:RF:363:MET:HG2	1.87	0.56
45:RF:420:SER:O	45:RF:423:GLN:HG3	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:267:MET:HA	45:RH:301:CYS:SG	2.45	0.56
44:RI:22:GLU:HG3	44:RI:83:TYR:HE2	1.70	0.56
44:RI:271:SER:O	44:RI:377:MET:HG2	2.05	0.56
45:RJ:69:GLU:CD	45:RJ:71:GLY:H	2.07	0.56
45:RJ:372:THR:O	45:RJ:375:GLN:HG2	2.05	0.56
44:RK:287:SER:O	44:RK:291:ILE:HG12	2.04	0.56
45:RL:3:GLU:N	45:RL:129:CYS:O	2.34	0.56
45:RL:192:LEU:CD1	45:RL:196:ALA:HB2	2.35	0.56
45:RN:104:GLY:O	45:RN:109:GLY:HA3	2.05	0.56
44:SA:206:ASN:HB3	44:SA:210:TYR:CE1	2.40	0.56
45:SB:42:LEU:HA	45:SB:45:GLU:CG	2.31	0.56
44:SC:91:GLN:HB3	44:SC:121:ARG:NH1	2.20	0.56
44:SC:387:VAL:O	44:SC:391:LEU:HD13	2.05	0.56
45:SF:136:THR:HG21	45:SF:233:MET:HE1	1.86	0.56
44:SG:11:GLN:HG3	44:SG:74:VAL:CG1	2.34	0.56
44:SG:102:ASN:OD1	44:SG:105:ARG:N	2.36	0.56
44:SG:275:ILE:HB	44:SG:368:LEU:HD11	1.86	0.56
44:SI:9:VAL:CG1	44:SI:139:ASN:HB3	2.34	0.56
45:SJ:255:VAL:HA	44:SK:407:TRP:CZ3	2.40	0.56
44:SK:186:ASN:O	44:SK:190:SER:N	2.30	0.56
44:SK:212:ILE:HD13	44:SK:215:ARG:NH2	2.19	0.56
44:SK:250:VAL:HG11	44:SK:255:PHE:HE1	1.69	0.56
45:SL:223:GLY:O	45:SL:226:ASN:HB2	2.04	0.56
45:SL:316:LEU:O	45:SL:365:VAL:HA	2.05	0.56
44:SM:105:ARG:CA	44:SM:109:THR:HB	2.33	0.56
44:TA:275:ILE:HG23	44:TA:368:LEU:HD11	1.87	0.56
45:TB:259:PRO:HA	44:TC:404:PHE:CE2	2.40	0.56
44:TC:215:ARG:NH2	44:TC:299:ALA:O	2.38	0.56
45:TD:268:ILE:HG22	45:TD:368:VAL:CG2	2.31	0.56
44:TE:313:MET:HE2	44:TE:380:ASN:C	2.26	0.56
45:TF:26:ASP:OD2	45:TF:359:LYS:HE2	2.05	0.56
45:TF:105:HIS:NE2	45:TF:150:LEU:HB2	2.20	0.56
45:TH:185:ALA:O	45:TH:189:VAL:HG23	2.06	0.56
44:TI:56:THR:HG21	44:TI:60:LYS:HG3	1.86	0.56
44:TI:225:THR:O	44:TI:228:ASN:N	2.38	0.56
45:TL:55:THR:CG2	45:UL:283:ALA:HA	2.35	0.56
45:TL:248:SER:CB	45:TL:252:LYS:HD2	2.35	0.56
44:UA:360:PRO:HD2	44:UA:371:VAL:O	2.04	0.56
45:UB:133:PHE:HD2	45:UB:155:VAL:HG11	1.69	0.56
45:UD:187:LEU:HD11	45:UD:408:PHE:CE1	2.39	0.56
45:UD:316:LEU:HA	45:UD:352:SER:OG	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:54:SER:HA	44:UE:64:ARG:NH2	2.20	0.56
44:UE:128:ASN:HD21	44:VC:285:GLN:NE2	2.03	0.56
44:UE:287:SER:O	44:UE:291:ILE:HG23	2.05	0.56
44:UI:60:LYS:HZ1	44:UI:86:LEU:HA	1.67	0.56
44:UI:189:LEU:HD23	44:UI:421:ALA:CB	2.35	0.56
44:UI:297:GLU:OE2	44:UI:300:ASN:ND2	2.38	0.56
44:UK:209:ILE:CD1	44:UK:231:ILE:HD11	2.24	0.56
44:UK:352:LYS:HD2	45:UL:178:THR:HA	1.85	0.56
45:UL:317:PHE:CE2	45:UL:326:VAL:HG22	2.40	0.56
44:UM:21:TRP:CH2	44:UM:63:PRO:HB3	2.40	0.56
44:UM:84:ARG:HE	44:UM:85:GLN:HE22	1.53	0.56
44:UM:241:SER:OG	44:UM:250:VAL:O	2.18	0.56
44:UM:286:LEU:O	44:UM:373:ARG:NE	2.38	0.56
45:UN:309:ARG:O	45:UN:371:SER:OG	2.22	0.56
45:UN:309:ARG:NH2	45:UN:426:GLN:O	2.37	0.56
45:VB:217:LEU:HD11	45:VB:220:PRO:HG3	1.86	0.56
45:VD:100:ASN:ND2	45:VD:401:GLU:OE1	2.37	0.56
44:VE:203:MET:HE3	44:VE:384:ILE:HG22	1.87	0.56
45:VF:143:THR:HG22	48:VF:501:GDP:O2B	2.05	0.56
45:VF:296:ALA:HA	45:VF:305:PRO:HG2	1.87	0.56
44:VI:268:MET:HE1	44:VI:380:ASN:HA	1.87	0.56
45:VJ:7:ILE:HG21	45:VJ:151:LEU:HD21	1.85	0.56
45:VJ:290:THR:HG23	45:VJ:291:GLN:N	2.19	0.56
45:VL:200:MET:HG2	45:VL:266:PHE:HB2	1.87	0.56
45:VN:66:MET:CG	45:VN:91:VAL:HG23	2.35	0.56
45:VN:269:GLY:N	45:VN:367:PHE:O	2.38	0.56
45:VN:274:THR:HB	45:VN:282:ARG:HH11	1.70	0.56
45:VN:377:MET:HA	45:VN:380:ARG:NE	2.20	0.56
44:WA:11:GLN:HB3	46:WA:501:GTP:PA	2.45	0.56
45:WB:101:TRP:CZ3	45:WB:187:LEU:HD22	2.40	0.56
44:WC:99:ALA:HB3	46:WC:501:GTP:O2G	2.05	0.56
44:WC:239:THR:O	44:WC:243:ARG:NE	2.35	0.56
44:WE:236:SER:O	44:WE:240:ALA:N	2.38	0.56
44:WE:238:LEU:HD11	44:WE:378:ILE:HG13	1.87	0.56
45:WF:143:THR:HG23	45:WF:144:GLY:N	2.19	0.56
44:WG:13:GLY:CA	44:WG:16:VAL:HG22	2.34	0.56
45:WH:285:THR:HA	45:WH:363:MET:CE	2.35	0.56
45:WJ:65:LEU:HD22	45:WJ:90:PHE:CE1	2.39	0.56
44:WK:2:ARG:HD3	44:WK:242:LEU:HD23	1.86	0.56
44:WK:70:LEU:HD11	44:WK:149:LEU:CD2	2.35	0.56
44:WK:76:ASP:OD2	45:WL:46:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:3:GLU:N	44:WM:131:GLY:O	2.27	0.56
25:1P:168:ARG:HG3	44:TI:282:TYR:CE2	2.40	0.56
2:2A:111:SER:HB2	45:AJ:276:ARG:NH2	2.20	0.56
28:2C:67:LYS:CD	44:LI:81:GLY:HA2	2.35	0.56
25:2P:355:GLN:HB3	45:TN:360:GLY:CA	2.34	0.56
26:2R:62:MET:HG3	45:MH:39:ASP:O	2.05	0.56
15:2V:24:ARG:N	44:ME:430:LYS:HZ2	2.02	0.56
33:3D:6:LYS:HE2	45:KD:35:THR:OG1	2.04	0.56
37:5C:147:TYR:CE2	44:NK:18:ASN:HB3	2.38	0.56
37:5D:118:PRO:CD	44:NM:355:ILE:HG22	2.34	0.56
38:5G:139:GLY:O	38:5G:140:ASN:OD1	2.23	0.56
38:5G:153:ASP:O	38:5G:156:TYR:HB3	2.04	0.56
38:5H:47:GLU:CD	44:OK:324:VAL:HG22	2.26	0.56
38:5H:107:VAL:HG13	38:5H:108:LYS:H	1.70	0.56
11:5Q:59:ILE:HG13	11:5Q:59:ILE:O	2.05	0.56
11:5Q:60:THR:HG21	11:5Q:153:ARG:NH2	2.19	0.56
41:6G:172:LEU:HA	41:6G:175:GLN:OE1	2.05	0.56
11:6Q:14:LEU:HB2	11:6Q:25:TRP:CZ2	2.40	0.56
11:6Q:90:GLU:OE2	11:6Q:155:GLN:NE2	2.37	0.56
35:6R:26:HIS:HA	44:LK:244:PHE:CE1	2.38	0.56
43:8P:59:UNK:HA	43:8P:62:UNK:CB	2.34	0.56
44:AA:328:VAL:HG21	44:AA:355:ILE:HD11	1.86	0.56
45:AB:286:VAL:HG21	45:AB:325:GLU:HG2	1.87	0.56
44:AC:192:HIS:NE2	44:AC:424:ASP:OD2	2.38	0.56
44:AE:210:TYR:HE1	44:AE:227:LEU:HD11	1.69	0.56
44:AE:290:GLU:O	44:AE:293:ASN:HB2	2.06	0.56
44:AG:301:MET:HA	44:AG:301:MET:HE3	1.86	0.56
45:AH:217:LEU:O	45:AH:217:LEU:HD12	2.05	0.56
45:AH:341:PHE:HB3	45:AH:348:ASN:ND2	2.17	0.56
44:AK:212:ILE:CD1	44:AK:300:ASN:HA	2.35	0.56
45:AL:146:GLY:O	45:AL:149:THR:HG22	2.05	0.56
44:AM:274:PRO:HG3	44:AM:286:LEU:HD22	1.86	0.56
45:AN:54:ALA:CA	45:BN:283:ALA:HB2	2.31	0.56
44:BC:119:LEU:HD11	44:BC:156:ARG:HB3	1.88	0.56
44:BE:66:VAL:O	44:BE:66:VAL:HG13	2.05	0.56
45:BF:49:VAL:HG13	45:BF:50:TYR:HD1	1.69	0.56
44:BG:205:ASP:OD1	44:BG:303:ALA:HA	2.05	0.56
44:BG:439:THR:HB	45:BJ:390:ARG:CZ	2.35	0.56
44:BI:66:VAL:HG22	44:BI:68:LEU:CD2	2.35	0.56
45:BJ:97:ALA:CB	45:BJ:143:THR:HB	2.34	0.56
44:BK:88:HIS:HA	44:BK:89:PRO:CD	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:212:ILE:CD1	44:BK:300:ASN:HA	2.35	0.56
45:BL:135:ILE:CD1	45:BL:152:ILE:HD11	2.35	0.56
45:CB:213:ARG:HE	45:CB:297:LYS:CE	2.17	0.56
44:CC:250:VAL:HA	44:CC:254:GLU:OE1	2.06	0.56
44:CE:7:ILE:HA	44:CE:66:VAL:CG1	2.34	0.56
44:CE:104:ALA:HB3	44:CE:411:GLU:HB2	1.87	0.56
45:CF:116:VAL:O	45:CF:119:VAL:HG12	2.05	0.56
44:CI:174:SER:HB2	44:CI:177:VAL:O	2.05	0.56
44:CI:317:MET:HE3	44:CI:375:VAL:HG21	1.87	0.56
45:CJ:62:ARG:NH1	45:CJ:62:ARG:HB3	2.20	0.56
44:CK:287:SER:O	44:CK:290:GLU:HG2	2.05	0.56
44:CM:5:ILE:O	44:CM:135:PHE:HA	2.05	0.56
45:DB:40:SER:OG	45:DB:43:GLN:HG3	2.04	0.56
45:DB:332:ASN:O	45:DB:336:LYS:HG2	2.05	0.56
44:DC:344:VAL:HG11	44:DC:346:TRP:CZ2	2.40	0.56
45:DD:252:LYS:HG3	44:DE:101:ASN:ND2	2.20	0.56
44:DE:67:PHE:C	44:DE:68:LEU:HD22	2.25	0.56
44:DE:88:HIS:HB3	44:DE:91:GLN:CD	2.26	0.56
44:DE:326:LYS:HG2	45:DF:220:PRO:HD2	1.86	0.56
45:DF:5:VAL:HG12	45:DF:62:ARG:HD2	1.86	0.56
45:DF:290:THR:HG21	45:DF:329:GLN:OE1	2.05	0.56
44:DG:259:LEU:HD21	44:DG:316:SER:N	2.21	0.56
44:DI:310:GLY:HA3	44:DI:383:ALA:HB2	1.87	0.56
45:DJ:303:ALA:HB2	45:DJ:376:GLU:HB3	1.86	0.56
44:DM:346:TRP:CE3	45:DN:391:ARG:HG3	2.40	0.56
45:DN:137:HIS:N	45:DN:167:PHE:O	2.34	0.56
45:DN:173:PRO:HG2	45:DN:380:ARG:CD	2.35	0.56
44:EA:270:SER:CB	44:EA:378:ILE:HD13	2.34	0.56
45:EB:103:LYS:HD2	45:EB:401:GLU:OE1	2.05	0.56
45:EB:249:ASP:OD2	44:EC:98:ASP:HB3	2.05	0.56
45:EB:259:PRO:HA	44:EC:404:PHE:CE2	2.40	0.56
45:EB:377:MET:HA	45:EB:380:ARG:HD2	1.86	0.56
44:EC:372:MET:HG3	44:EC:372:MET:O	2.05	0.56
45:ED:290:THR:HG21	45:ED:329:GLN:HB3	1.86	0.56
44:EE:402:ARG:HG2	44:EE:402:ARG:O	2.06	0.56
44:EE:439:THR:HG21	45:EF:390:ARG:HD2	1.87	0.56
45:EF:97:ALA:O	45:EF:103:LYS:HD2	2.05	0.56
45:EF:138:SER:HA	45:EF:169:VAL:HG12	1.87	0.56
44:EG:250:VAL:HG21	44:EG:318:MET:HE3	1.87	0.56
44:EI:260:VAL:HG13	44:EI:260:VAL:O	2.05	0.56
45:EJ:172:SER:OG	45:EJ:205:GLU:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:183:TYR:CE2	45:EJ:394:PHE:HB2	2.38	0.56
45:EJ:293:MET:SD	45:EJ:367:PHE:HB2	2.45	0.56
44:EK:30:ILE:O	44:EK:30:ILE:HG22	2.04	0.56
45:EL:113:ILE:HA	45:EL:116:VAL:HG12	1.87	0.56
44:EM:270:SER:C	44:EM:271:SER:HG	2.06	0.56
45:EN:312:THR:CB	45:EN:348:ASN:HB2	2.34	0.56
44:FA:55:GLU:OE1	44:FA:61:HIS:ND1	2.38	0.56
44:FA:56:THR:HA	44:GA:285:GLN:HB3	1.86	0.56
45:FB:28:HIS:HB3	45:FB:30:ILE:HD12	1.87	0.56
45:FB:240:LEU:HD12	45:FB:249:ASP:CA	2.32	0.56
45:FB:396:HIS:HA	45:FB:399:THR:OG1	2.05	0.56
45:FD:170:VAL:CG2	45:FD:171:PRO:HD2	2.35	0.56
45:FD:342:VAL:HG13	45:FD:345:ILE:HG22	1.87	0.56
44:FE:54:SER:OG	44:FE:62:VAL:HB	2.04	0.56
44:FE:67:PHE:C	44:FE:68:LEU:HD12	2.25	0.56
45:FF:7:ILE:HB	45:FF:135:ILE:HD11	1.88	0.56
45:FF:113:ILE:CD1	45:FF:150:LEU:HG	2.34	0.56
44:FG:31:GLN:OE1	44:FG:37:PRO:HB3	2.04	0.56
44:FG:199:ASP:O	44:FG:266:HIS:HB2	2.05	0.56
45:FH:60:VAL:HG13	45:FH:60:VAL:O	2.03	0.56
45:FH:163:ILE:HD12	45:FH:197:ASP:OD2	2.05	0.56
44:FI:224:TYR:CD1	44:FI:227:LEU:HD12	2.36	0.56
44:FI:335:ILE:HD13	44:FI:338:LYS:HZ1	1.68	0.56
45:FN:143:THR:HG22	48:FN:501:GDP:O2B	2.05	0.56
45:FN:289:LEU:CD2	45:FN:365:VAL:HG23	2.24	0.56
45:FN:382:ALA:O	45:FN:386:THR:N	2.34	0.56
44:GC:230:LEU:HD11	44:GC:275:ILE:HD12	1.87	0.56
45:GD:237:THR:CG2	45:GD:240:LEU:HB3	2.35	0.56
45:GD:315:ALA:C	45:GD:316:LEU:HD22	2.25	0.56
44:GE:262:TYR:OH	45:GH:391:ARG:O	2.14	0.56
44:GG:54:SER:HB3	44:GG:64:ARG:NH2	2.20	0.56
45:GH:99:ASN:HA	45:GH:142:GLY:HA3	1.86	0.56
45:GH:178:THR:HG22	45:GH:180:VAL:HG12	1.86	0.56
45:GH:296:ALA:HA	45:GH:299:MET:HE1	1.87	0.56
45:GJ:334:GLN:HE22	45:GJ:347:ASN:N	2.03	0.56
45:GL:309:ARG:O	45:GL:372:THR:HG23	2.05	0.56
45:GL:318:ARG:NH1	45:GL:358:PRO:HD2	2.19	0.56
45:GN:146:GLY:O	45:GN:149:THR:HG22	2.05	0.56
45:GN:169:VAL:O	45:GN:169:VAL:HG23	2.05	0.56
44:HA:191:THR:HA	44:HA:194:LEU:HD21	1.86	0.56
44:HA:338:LYS:HD2	44:HA:339:ARG:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:217:LEU:HD11	45:HB:220:PRO:HB3	1.87	0.56
44:HC:14:ILE:HD11	44:HC:69:ASP:HB2	1.86	0.56
45:HD:184:ASN:OD1	45:HD:185:ALA:N	2.38	0.56
45:HD:203:ASP:OD1	45:HD:206:ALA:HB3	2.06	0.56
44:HI:237:SER:HB3	44:HI:376:CYS:SG	2.45	0.56
44:HI:272:TYR:CD2	44:HI:275:ILE:HD11	2.41	0.56
45:HL:22:GLU:HA	45:HL:81:PHE:HD2	1.70	0.56
45:HL:199:CYS:O	45:HL:266:PHE:N	2.38	0.56
45:HL:314:SER:CA	45:HL:350:LYS:HB3	2.35	0.56
44:HM:68:LEU:HD11	44:HM:118:CYS:SG	2.45	0.56
44:IA:236:SER:OG	44:IA:243:ARG:NH2	2.37	0.56
44:IE:294:SER:O	44:IE:297:GLU:HG2	2.05	0.56
45:IF:103:LYS:HA	45:IF:401:GLU:OE2	2.05	0.56
45:IL:69:GLU:O	45:IL:73:MET:HE1	2.06	0.56
44:JA:260:VAL:HB	45:JD:397:TRP:HZ2	1.68	0.56
44:JC:5:ILE:HG13	44:JC:132:LEU:HD13	1.86	0.56
44:JC:254:GLU:CG	45:JF:98:GLY:HA2	2.35	0.56
45:JD:105:HIS:HD2	45:JD:146:GLY:O	1.88	0.56
44:JE:239:THR:HG22	44:JE:239:THR:O	2.05	0.56
44:JE:244:PHE:CE2	44:JE:358:GLN:HG2	2.40	0.56
44:JE:326:LYS:HE3	45:JH:220:PRO:HB2	1.86	0.56
44:JG:387:VAL:HA	44:JG:390:ARG:HD3	1.87	0.56
45:JH:232:ALA:HB1	45:JH:268:ILE:HD12	1.88	0.56
45:JH:354:CYS:SG	45:JH:355:ASP:N	2.78	0.56
44:JI:210:TYR:HE2	45:JJ:324:LYS:HA	1.70	0.56
44:JI:221:ARG:HG2	45:JJ:322:SER:CB	2.35	0.56
44:JK:285:GLN:NE2	44:JK:290:GLU:OE2	2.29	0.56
44:JM:75:ILE:HG22	44:JM:79:ARG:NH1	2.20	0.56
44:KA:60:LYS:NZ	44:LA:283:HIS:HA	2.20	0.56
44:KA:399:TYR:O	44:KA:402:ARG:NH1	2.37	0.56
45:KB:21:TRP:CH2	45:KB:63:ALA:HB3	2.40	0.56
44:KE:92:LEU:HD23	44:KE:121:ARG:HG2	1.86	0.56
44:KE:202:VAL:HG12	44:KE:204:LEU:CD2	2.35	0.56
45:KH:344:TRP:CE3	45:KH:345:ILE:HB	2.40	0.56
44:KK:324:VAL:CG1	44:KK:326:LYS:HG3	2.34	0.56
45:KL:86:ARG:HA	45:LL:281:TYR:CE2	2.39	0.56
45:KL:287:PRO:HG3	45:KL:325:GLU:OE2	2.05	0.56
44:KM:56:THR:HG23	44:KM:58:ALA:H	1.69	0.56
44:KM:270:SER:HB3	44:KM:378:ILE:HG12	1.86	0.56
44:KM:270:SER:HA	44:KM:377:MET:O	2.05	0.56
44:KM:278:ALA:N	44:KM:369:ALA:HB2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:315:CYS:SG	44:LA:317:MET:HE1	2.45	0.56
44:LA:388:PHE:CD2	44:LA:428:LEU:HD21	2.40	0.56
45:LB:294:PHE:CE2	45:LB:333:VAL:HG11	2.41	0.56
44:LC:212:ILE:HD12	44:LC:300:ASN:HA	1.87	0.56
45:LH:173:PRO:HG3	45:LH:380:ARG:CZ	2.34	0.56
45:LH:295:ASP:OD1	45:LH:296:ALA:N	2.38	0.56
45:LH:311:LEU:HD23	45:LH:342:VAL:HG21	1.87	0.56
45:LL:416:ASN:O	45:LL:419:VAL:HG12	2.04	0.56
45:LN:139:LEU:HD22	45:LN:188:SER:HB2	1.88	0.56
45:LN:272:PRO:HD3	45:LN:364:ALA:HA	1.85	0.56
44:MA:11:GLN:HE22	45:MB:247:ASN:N	1.96	0.56
44:MA:66:VAL:HG22	44:MA:68:LEU:CD1	2.36	0.56
45:MB:169:VAL:HA	45:MB:202:ILE:O	2.05	0.56
45:MB:304:ASP:O	45:MB:373:ALA:HB1	2.04	0.56
45:MB:418:LEU:O	45:MB:422:TYR:HB2	2.04	0.56
44:MC:22:GLU:HG3	44:MC:83:TYR:CZ	2.40	0.56
45:MD:134:GLN:HE22	45:MD:233:MET:CG	2.18	0.56
44:ME:188:ILE:HG13	44:ME:395:PHE:CD1	2.40	0.56
44:ME:241:SER:OG	44:ME:250:VAL:O	2.19	0.56
44:ME:261:PRO:HA	45:MH:394:PHE:CE1	2.39	0.56
45:MF:34:GLY:O	45:MF:58:ARG:HG3	2.05	0.56
44:MI:170:THR:O	44:MI:171:ILE:HD13	2.05	0.56
45:MJ:12:CYS:HB3	45:MJ:138:SER:HB2	1.87	0.56
45:ML:186:THR:HG21	45:ML:385:PHE:CD1	2.40	0.56
44:MM:12:GLY:O	44:MM:16:VAL:HG22	2.05	0.56
44:MM:50:ASN:HA	44:MM:53:PHE:O	2.05	0.56
44:MM:259:LEU:HD11	44:MM:316:SER:CB	2.35	0.56
44:MM:301:MET:HE1	44:MM:307:PRO:HG3	1.87	0.56
44:NA:183:GLU:HG2	44:NA:184:PRO:CD	2.35	0.56
44:NC:11:GLN:O	44:NC:15:GLN:N	2.27	0.56
44:NC:339:ARG:HD2	44:NC:339:ARG:O	2.04	0.56
44:NC:387:VAL:O	44:NC:390:ARG:HG2	2.05	0.56
45:ND:58:ARG:HH21	45:ND:60:VAL:CG1	2.18	0.56
45:ND:270:PHE:CD2	45:ND:273:LEU:HD21	2.40	0.56
45:NF:31:ASP:OD2	45:NF:35:THR:OG1	2.23	0.56
45:NF:130:LEU:HD21	45:NF:162:ARG:HG2	1.86	0.56
44:NG:222:PRO:CD	45:NH:324:LYS:HD3	2.34	0.56
45:NH:207:LEU:HD23	45:NH:300:MET:CE	2.35	0.56
45:NH:345:ILE:O	45:NH:348:ASN:HB3	2.06	0.56
44:NI:252:ILE:HA	44:NI:255:PHE:CD2	2.39	0.56
45:NJ:248:SER:OG	45:NJ:252:LYS:HD2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:222:PRO:HD2	45:NL:324:LYS:HE3	1.86	0.56
45:NL:201:VAL:HG13	45:NL:301:CYS:SG	2.46	0.56
45:NL:208:TYR:HA	45:NL:211:CYS:SG	2.44	0.56
44:NM:265:ILE:CD1	44:NM:435:VAL:HG21	2.35	0.56
44:NM:431:ASP:CA	44:NM:434:GLU:HG2	2.28	0.56
45:NN:269:GLY:CA	45:NN:300:MET:HE1	2.33	0.56
45:OB:328:GLU:HA	45:OB:331:LEU:CB	2.36	0.56
44:OC:119:LEU:HD11	44:OC:156:ARG:HG3	1.87	0.56
44:OC:167:LEU:HD23	44:OC:200:VAL:CG2	2.35	0.56
44:OC:176:GLN:HB3	45:OD:331:LEU:CD1	2.35	0.56
44:OE:212:ILE:HD13	44:OE:215:ARG:HH12	1.69	0.56
44:OE:241:SER:OG	44:OE:242:LEU:HD12	2.05	0.56
44:OG:370:LYS:HD2	44:OG:370:LYS:O	2.04	0.56
45:OH:239:CYS:CB	45:OH:248:SER:H	2.19	0.56
45:OH:274:THR:HG21	45:OH:279:GLN:HA	1.86	0.56
45:OH:286:VAL:CG1	45:OH:321:MET:HE3	2.34	0.56
44:OI:170:THR:C	44:OI:171:ILE:HD13	2.26	0.56
44:OI:261:PRO:HA	45:OL:394:PHE:CD2	2.41	0.56
44:OI:276:ILE:CD1	44:OI:286:LEU:HD21	2.35	0.56
44:OI:288:VAL:HA	44:OI:291:ILE:HD11	1.87	0.56
44:OK:99:ALA:CB	44:OK:145:THR:HB	2.31	0.56
45:OL:198:GLU:HG2	45:OL:266:PHE:CE2	2.40	0.56
44:OM:404:PHE:CE1	45:ON:259:PRO:HB3	2.40	0.56
44:PA:312:TYR:HB2	44:PA:343:PHE:CD1	2.39	0.56
44:PC:296:PHE:CE2	44:PC:335:ILE:HG21	2.39	0.56
44:PE:291:ILE:HG13	44:PE:292:THR:N	2.19	0.56
45:PF:3:GLU:OE2	45:PF:128:ASP:N	2.39	0.56
45:PF:290:THR:O	45:PF:293:MET:HG2	2.04	0.56
45:PJ:7:ILE:HG12	45:PJ:64:ILE:CG2	2.35	0.56
45:PJ:231:ALA:HB1	45:PJ:270:PHE:CE1	2.40	0.56
44:PK:6:SER:O	44:PK:7:ILE:HD13	2.04	0.56
44:PK:265:ILE:HG12	44:PK:432:TYR:CE1	2.40	0.56
44:PM:155:GLU:HA	44:PM:197:HIS:CE1	2.40	0.56
45:QB:244:GLY:HA2	45:QB:355:ASP:OD2	2.04	0.56
45:QB:283:ALA:O	45:QB:288:GLU:HG3	2.05	0.56
45:QD:62:ARG:NH2	45:QD:123:GLU:OE2	2.33	0.56
45:QD:271:ALA:HB1	45:QD:272:PRO:HA	1.88	0.56
44:QE:137:VAL:O	44:QE:168:GLY:HA2	2.05	0.56
44:QE:204:LEU:HD13	44:QE:231:ILE:CD1	2.34	0.56
44:QG:19:ALA:HA	44:QG:22:GLU:OE1	2.05	0.56
44:QG:265:ILE:CD1	44:QG:435:VAL:HG21	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:36:TYR:CE1	45:QH:44:LEU:HG	2.40	0.56
45:QH:65:LEU:HD22	45:QH:90:PHE:CE1	2.33	0.56
44:QI:56:THR:O	44:RI:285:GLN:HA	2.04	0.56
44:QI:257:THR:HA	45:QJ:397:TRP:NE1	2.20	0.56
45:QJ:85:PHE:HB3	45:QJ:90:PHE:HZ	1.68	0.56
44:QM:175:PRO:HG2	44:QM:304:LYS:CG	2.33	0.56
44:QM:188:ILE:HG22	44:QM:421:ALA:HB1	1.87	0.56
45:QN:70:PRO:HG3	45:QN:92:PHE:CB	2.35	0.56
45:QN:254:ALA:HA	45:QN:258:ILE:HD13	1.87	0.56
44:RA:261:PRO:HA	45:RB:394:PHE:CE1	2.40	0.56
45:RB:66:MET:CG	45:RB:116:VAL:HG21	2.35	0.56
44:RC:3:GLU:CG	44:RC:129:CYS:HB3	2.36	0.56
44:RC:269:LEU:HD23	44:RC:269:LEU:H	1.70	0.56
44:RC:290:GLU:HA	44:RC:293:ASN:OD1	2.05	0.56
45:RD:50:TYR:HH	45:RD:237:THR:HG1	1.51	0.56
45:RF:5:VAL:CG1	45:RF:62:ARG:HH12	2.01	0.56
45:RF:344:TRP:CZ3	45:RF:345:ILE:HB	2.40	0.56
44:RG:238:LEU:HD23	44:RG:238:LEU:O	2.05	0.56
45:RH:7:ILE:O	45:RH:135:ILE:HD13	2.04	0.56
45:RH:130:LEU:HB3	45:RH:162:ARG:CD	2.30	0.56
44:RI:70:LEU:HG	44:RI:145:THR:OG1	2.05	0.56
44:RI:259:LEU:HD21	44:RI:316:SER:CB	2.35	0.56
45:RJ:156:ARG:CD	45:RJ:195:ASN:HB3	2.35	0.56
45:RL:61:PRO:HG2	45:RL:85:PHE:CD1	2.40	0.56
45:RL:372:THR:HA	45:RL:422:TYR:CE2	2.38	0.56
45:RN:60:VAL:HG13	45:RN:60:VAL:O	2.05	0.56
45:RN:355:ASP:O	45:RN:356:ILE:HD13	2.05	0.56
45:SB:11:GLN:HB3	48:SB:501:GDP:O1A	2.05	0.56
45:SB:114:ASP:OD1	45:SB:115:SER:N	2.38	0.56
45:SB:185:ALA:HA	45:SB:188:SER:OG	2.05	0.56
44:SC:274:PRO:HD3	44:SC:291:ILE:HB	1.87	0.56
44:SE:9:VAL:CG2	44:SE:139:ASN:HB3	2.35	0.56
45:SF:4:ILE:HG22	45:SF:132:GLY:N	2.20	0.56
45:SF:185:ALA:O	45:SF:189:VAL:N	2.34	0.56
45:SH:32:PRO:HG3	45:SH:81:PHE:HE1	1.70	0.56
45:SH:63:ALA:HB1	45:SH:65:LEU:CD1	2.34	0.56
45:SH:245:GLN:C	45:SH:246:LEU:HD12	2.25	0.56
45:SH:251:ARG:O	45:SH:255:VAL:HG23	2.04	0.56
45:SH:318:ARG:HD3	45:SH:358:PRO:HG3	1.87	0.56
44:SI:387:VAL:HG12	44:SI:390:ARG:NH1	2.20	0.56
45:SJ:253:LEU:HB3	45:SJ:257:LEU:CD2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:101:ASN:CA	44:SK:144:GLY:HA3	2.33	0.56
45:SL:87:PRO:HG2	45:TL:278:SER:HB2	1.88	0.56
44:TA:137:VAL:HG12	44:TA:168:GLY:HA2	1.85	0.56
44:TA:171:ILE:HG21	46:TA:501:GTP:N3	2.20	0.56
45:TB:187:LEU:HD11	45:TB:408:PHE:CZ	2.40	0.56
44:TC:144:GLY:N	46:TC:501:GTP:O1G	2.37	0.56
44:TC:280:LYS:HA	44:TC:283:HIS:NE2	2.20	0.56
44:TC:329:ASN:HB3	45:TD:174:LYS:NZ	2.20	0.56
44:TG:14:ILE:CD1	44:TG:69:ASP:HB2	2.28	0.56
44:TG:23:LEU:HD11	44:TG:233:GLN:OE1	2.05	0.56
44:TG:183:GLU:N	44:TG:184:PRO:HD2	2.20	0.56
44:TG:191:THR:O	44:TG:194:LEU:HG	2.05	0.56
44:TG:205:ASP:OD1	44:TG:303:ALA:HA	2.05	0.56
45:TH:173:PRO:HG2	45:TH:380:ARG:HG3	1.87	0.56
44:TI:238:LEU:O	44:TI:238:LEU:HD23	2.05	0.56
44:TK:287:SER:O	44:TK:290:GLU:HG2	2.04	0.56
45:TL:70:PRO:HG3	45:TL:92:PHE:HD2	1.70	0.56
45:TL:310:TYR:CD1	45:TL:371:SER:HB2	2.40	0.56
45:TL:323:THR:O	45:TL:326:VAL:HB	2.05	0.56
44:TM:48:ALA:HB1	44:TM:243:ARG:HB2	1.87	0.56
45:TN:288:GLU:O	45:TN:291:GLN:HG3	2.05	0.56
44:UA:75:ILE:HG13	44:UA:94:SER:HB2	1.87	0.56
45:UB:114:ASP:OD1	45:UB:115:SER:N	2.38	0.56
45:UB:286:VAL:HG11	45:UB:329:GLN:HG3	1.88	0.56
44:UC:231:ILE:O	44:UC:234:VAL:HB	2.06	0.56
44:UC:349:THR:HG22	45:UD:388:MET:CE	2.35	0.56
45:UD:2:ARG:HH21	44:UE:72:PRO:HD2	1.70	0.56
45:UD:208:TYR:HA	45:UD:211:CYS:HB2	1.88	0.56
45:UD:350:LYS:HA	44:UE:179:THR:O	2.05	0.56
44:UE:72:PRO:HG3	44:UE:95:GLY:O	2.05	0.56
45:UF:12:CYS:HB2	48:UF:501:GDP:O4'	2.04	0.56
44:UG:173:PRO:HB3	44:UG:183:GLU:OE1	2.04	0.56
45:UH:1:MET:HG2	44:UI:72:PRO:HG2	1.87	0.56
45:UH:271:ALA:HB1	45:UH:272:PRO:HA	1.86	0.56
45:UH:314:SER:OG	45:UH:368:VAL:HB	2.05	0.56
44:UI:172:TYR:HB3	44:UI:173:PRO:HD2	1.85	0.56
44:UI:377:MET:SD	44:UI:379:SER:N	2.78	0.56
45:UJ:116:VAL:O	45:UJ:119:VAL:HG12	2.05	0.56
45:UJ:181:GLU:CG	45:UJ:182:PRO:HD3	2.28	0.56
44:UK:4:VAL:HB	44:UK:134:GLY:O	2.05	0.56
44:UK:269:LEU:HD23	44:UK:269:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:232:ALA:O	45:UL:235:GLY:N	2.36	0.56
44:UM:87:PHE:HB3	44:UM:92:LEU:HD11	1.86	0.56
44:UM:323:VAL:HG13	44:UM:355:ILE:HD13	1.87	0.56
45:VB:141:GLY:HA3	48:VB:502:GDP:PA	2.45	0.56
44:VC:38:SER:HB3	44:VC:42:ILE:HD11	1.85	0.56
45:VF:304:ASP:OD1	45:VF:306:ARG:HG2	2.05	0.56
45:VH:417:ASP:O	45:VH:421:GLU:HG3	2.05	0.56
44:VI:268:MET:HE3	44:VI:269:LEU:N	2.16	0.56
44:VI:269:LEU:H	44:VI:269:LEU:HD23	1.71	0.56
45:VJ:67:ASP:CB	45:VJ:73:MET:HE2	2.30	0.56
45:VJ:266:PHE:CE1	45:VJ:370:ASN:HB2	2.40	0.56
45:VL:269:GLY:O	45:VL:367:PHE:N	2.33	0.56
44:VM:75:ILE:HG21	44:VM:94:SER:CB	2.32	0.56
44:VM:222:PRO:O	45:VN:324:LYS:NZ	2.38	0.56
44:VM:317:MET:N	44:VM:352:LYS:O	2.38	0.56
45:VN:270:PHE:CZ	45:VN:364:ALA:HB1	2.40	0.56
45:VN:318:ARG:HA	45:VN:354:CYS:SG	2.45	0.56
45:VN:318:ARG:N	45:VN:364:ALA:O	2.34	0.56
44:WC:349:THR:O	45:WF:179:VAL:HG12	2.05	0.56
44:WE:67:PHE:O	44:WE:68:LEU:HD23	2.05	0.56
44:WE:270:SER:HB3	44:WE:378:ILE:HD13	1.86	0.56
45:WF:387:ALA:O	45:WF:390:ARG:HG2	2.04	0.56
44:WG:262:TYR:CE1	45:WJ:393:ALA:HA	2.41	0.56
44:WI:167:LEU:HD23	44:WI:200:VAL:HB	1.86	0.56
45:WJ:4:ILE:HD11	45:WJ:50:TYR:OH	2.04	0.56
45:WJ:274:THR:O	45:WJ:276:ARG:NH2	2.33	0.56
44:WK:161:TYR:HB3	44:WK:164:LYS:NZ	2.20	0.56
44:WK:329:ASN:O	44:WK:332:ILE:HB	2.05	0.56
45:WL:315:ALA:HB3	45:WL:351:SER:OG	2.05	0.56
1:6H:242:LYS:HE2	44:FC:322:ASP:O	2.06	0.56
3:0B:71:ILE:CG2	45:JH:361:LEU:HD11	2.36	0.56
3:0B:282:GLN:HE22	45:JL:83:GLN:HE22	1.51	0.56
3:0B:288:ILE:HD13	45:KL:280:GLN:HA	1.85	0.56
3:0B:318:VAL:HG13	45:KL:77:ARG:HH11	1.71	0.56
16:0X:53:ILE:CD1	44:MA:279:GLU:HA	2.35	0.56
5:1D:42:ASP:OD2	44:DG:72:PRO:HG2	2.05	0.56
9:1H:115:ARG:CZ	45:HL:279:GLN:HB3	2.34	0.56
9:1H:118:GLU:HG2	45:HL:276:ARG:HH11	1.69	0.56
22:1L:153:LEU:HB2	45:CH:362:LYS:NZ	2.17	0.56
22:1L:481:LYS:HD2	45:CF:280:GLN:HG2	1.86	0.56
22:1L:658:ARG:NH2	45:BF:45:GLU:OE1	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1L:892:ARG:NH2	44:CC:277:SER:HB2	2.20	0.56
25:1P:222:LEU:HB2	44:TG:370:LYS:HE3	1.86	0.56
25:1P:395:GLN:HB3	44:TA:370:LYS:HZ2	1.70	0.56
11:1Q:20:LYS:HD3	45:WD:53:GLU:OE2	2.05	0.56
26:1R:462:LYS:O	45:ED:78:ALA:HB2	2.04	0.56
29:2F:76:ASN:ND2	45:HF:336:LYS:HB3	2.19	0.56
31:2H:183:PHE:HB3	45:AD:227:HIS:CG	2.40	0.56
32:2I:116:LEU:HA	44:GC:339:ARG:HD2	1.86	0.56
24:2O:322:ARG:HG2	44:VE:365:GLY:N	2.21	0.56
26:2R:427:LYS:CG	45:FH:280:GLN:HE22	2.18	0.56
14:2U:226:ILE:HG13	44:WG:41:THR:OG1	2.04	0.56
14:2U:227:PHE:CZ	44:WG:44:GLY:HA3	2.38	0.56
15:2V:69:SER:O	45:LF:121:ARG:HD3	2.06	0.56
27:2W:240:PHE:HZ	35:6R:15:HIS:NE2	2.00	0.56
16:2X:27:PHE:CE1	45:ML:215:LEU:HD21	2.41	0.56
2:3A:140:SER:OG	44:AM:225:THR:HG21	2.05	0.56
28:3C:223:GLN:HB2	44:KA:219:ILE:HG23	1.86	0.56
26:3R:458:ILE:CD1	45:FL:277:GLY:HA2	2.35	0.56
12:3S:308:TYR:CZ	45:AN:261:PRO:HB2	2.39	0.56
37:5B:158:ASN:OD1	44:KG:309:HIS:HB3	2.05	0.56
37:5D:37:ASP:HB3	44:KK:263:PRO:HG2	1.88	0.56
38:5G:41:THR:C	44:OG:372:MET:HE1	2.25	0.56
38:5G:123:ARG:HA	44:OI:370:LYS:CG	2.30	0.56
35:5R:245:LEU:O	35:5R:249:LEU:HB2	2.06	0.56
35:5R:478:ASN:HB3	35:5R:481:ASN:OD1	2.05	0.56
41:6G:128:LYS:NZ	44:VG:337:THR:OG1	2.38	0.56
11:6Q:39:ASP:OD2	11:6Q:42:ILE:N	2.33	0.56
11:6Q:69:LEU:CD2	11:6Q:71:ILE:HD11	2.35	0.56
35:6R:268:GLU:HB2	45:DN:280:GLN:NE2	2.19	0.56
35:6R:288:LYS:HZ3	44:CM:45:GLY:CA	2.17	0.56
35:7R:94:ARG:CD	35:7R:184:ASP:HB2	2.35	0.56
35:7R:337:GLY:HA2	35:7R:371:ILE:CD1	2.29	0.56
35:7R:379:LYS:HE2	35:7R:381:PHE:CZ	2.40	0.56
35:7R:469:LYS:HG2	45:EB:78:ALA:CB	2.30	0.56
35:7R:592:PHE:CB	35:7R:600:LEU:HG	2.34	0.56
42:8L:333:UNK:O	42:8L:337:UNK:N	2.37	0.56
44:AA:326:LYS:CE	45:AD:219:THR:HG22	2.35	0.56
45:AB:216:LYS:HB2	45:AB:275:SER:HB2	1.87	0.56
45:AB:248:SER:CB	45:AB:252:LYS:HD2	2.35	0.56
45:AB:256:ASN:C	45:AB:257:LEU:HD12	2.26	0.56
45:AD:309:ARG:O	45:AD:372:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:54:SER:HB3	44:AE:64:ARG:NH2	2.20	0.56
44:AE:326:LYS:HG2	45:AH:220:PRO:HD2	1.86	0.56
45:AF:103:LYS:HE2	45:AF:108:GLU:CG	2.35	0.56
44:AG:118:CYS:O	44:AG:122:ILE:HG12	2.06	0.56
44:AG:280:LYS:O	44:AG:280:LYS:HG2	2.04	0.56
45:AH:32:PRO:HD3	45:AH:81:PHE:HE1	1.70	0.56
44:AI:71:GLU:OE2	44:AI:73:THR:OG1	2.22	0.56
44:AI:212:ILE:HD11	44:AI:300:ASN:HA	1.87	0.56
44:AI:398:MET:HE1	45:AJ:345:ILE:HG13	1.85	0.56
45:AJ:3:GLU:HG3	45:AJ:62:ARG:HH12	1.69	0.56
45:AJ:303:ALA:N	45:AJ:377:MET:HE2	2.20	0.56
45:AJ:398:TYR:HD2	45:AJ:408:PHE:HZ	1.54	0.56
44:AK:259:LEU:CD2	44:AK:268:MET:HE3	2.36	0.56
44:AK:280:LYS:HD2	44:MK:88:HIS:CE1	2.41	0.56
44:AM:66:VAL:HG11	44:AM:122:ILE:HD11	1.87	0.56
44:AM:222:PRO:HD2	45:AN:324:LYS:HD3	1.87	0.56
45:AN:173:PRO:CG	45:AN:380:ARG:HD3	2.36	0.56
45:AN:232:ALA:HB1	45:AN:268:ILE:CD1	2.35	0.56
45:AN:256:ASN:HD22	45:AN:350:LYS:HE2	1.70	0.56
45:AN:413:SER:O	45:AN:417:ASP:HB2	2.05	0.56
44:BA:231:ILE:O	44:BA:234:VAL:N	2.38	0.56
44:BA:256:GLN:O	44:BA:260:VAL:HB	2.05	0.56
45:BB:67:ASP:OD1	45:BB:68:LEU:N	2.37	0.56
44:BC:323:VAL:CG1	44:BC:355:ILE:HG23	2.36	0.56
45:BD:64:ILE:HG21	45:BD:119:VAL:CG1	2.36	0.56
45:BD:67:ASP:N	45:BD:73:MET:HE3	2.18	0.56
45:BD:143:THR:O	45:BD:147:MET:HB3	2.06	0.56
44:BE:166:LYS:O	44:BE:167:LEU:HD23	2.05	0.56
44:BE:224:TYR:CE1	45:BF:323:THR:HG21	2.41	0.56
44:BE:230:LEU:HD11	44:BE:275:ILE:HD13	1.88	0.56
44:BE:312:TYR:HB2	44:BE:343:PHE:CD1	2.40	0.56
44:BE:324:VAL:CG1	44:BE:325:PRO:CD	2.82	0.56
44:BE:368:LEU:HD12	44:BE:368:LEU:H	1.69	0.56
44:BE:432:TYR:O	44:BE:435:VAL:HG12	2.05	0.56
45:BF:262:ARG:HG3	45:BF:262:ARG:O	2.05	0.56
45:BF:310:TYR:O	45:BF:342:VAL:HG22	2.05	0.56
44:BG:101:ASN:HA	44:BG:144:GLY:HA3	1.87	0.56
45:BH:107:THR:HG23	45:BH:108:GLU:N	2.20	0.56
45:BJ:198:GLU:OE2	45:BJ:254:ALA:HB2	2.04	0.56
44:BK:165:SER:C	44:BK:166:LYS:HD3	2.24	0.56
44:BK:257:THR:HA	45:BN:397:TRP:CZ2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:8:HIS:HD2	44:CA:138:PHE:HB2	1.70	0.56
44:CA:62:VAL:HG21	44:DA:283:HIS:O	2.04	0.56
44:CA:247:ALA:HB3	44:CA:355:ILE:CD1	2.35	0.56
45:CB:134:GLN:OE1	45:CB:134:GLN:N	2.38	0.56
45:CB:269:GLY:HA2	45:CB:300:MET:CG	2.35	0.56
45:CB:304:ASP:OD1	45:CB:306:ARG:HG2	2.06	0.56
45:CB:363:MET:HA	45:CB:363:MET:CE	2.35	0.56
44:CC:11:GLN:CB	44:CC:74:VAL:HG11	2.35	0.56
44:CC:60:LYS:NZ	44:CC:85:GLN:O	2.34	0.56
45:CD:103:LYS:HA	45:CD:107:THR:OG1	2.05	0.56
45:CD:109:GLY:HA2	45:CD:147:MET:HE2	1.87	0.56
45:CD:430:ALA:CB	44:CE:397:LEU:HD22	2.35	0.56
44:CE:82:THR:HG23	44:CE:83:TYR:CD1	2.40	0.56
44:CE:311:LYS:CD	44:CE:342:GLN:HG3	2.35	0.56
44:CE:328:VAL:O	44:CE:332:ILE:HG12	2.05	0.56
45:CF:7:ILE:HD11	45:CF:135:ILE:HD12	1.88	0.56
45:CF:69:GLU:OE1	45:CF:71:GLY:N	2.27	0.56
45:CF:395:LEU:HG	45:CF:399:THR:CG2	2.35	0.56
44:CG:11:GLN:N	46:CG:501:GTP:O2B	2.38	0.56
44:CG:35:GLN:NE2	44:CG:60:LYS:HG3	2.20	0.56
45:CH:7:ILE:HD11	45:CH:120:VAL:HG11	1.87	0.56
45:CH:20:PHE:O	45:CH:23:VAL:HG12	2.04	0.56
45:CH:40:SER:O	45:CH:43:GLN:HB2	2.05	0.56
45:CH:81:PHE:CA	45:CH:84:LEU:HD13	2.35	0.56
44:CI:71:GLU:CD	44:CI:73:THR:H	2.07	0.56
44:CK:271:SER:HB3	44:CK:301:MET:HA	1.87	0.56
45:CL:44:LEU:HD22	45:CL:47:ILE:HG21	1.88	0.56
45:CL:148:GLY:O	45:CL:152:ILE:HG12	2.06	0.56
45:CL:406:MET:CE	45:CL:406:MET:HA	2.34	0.56
44:CM:28:HIS:NE2	44:CM:243:ARG:HD2	2.21	0.56
44:CM:47:ASP:HA	44:CM:50:ASN:HD21	1.67	0.56
44:CM:246:GLY:HA2	44:CM:357:TYR:CE2	2.40	0.56
44:DA:115:VAL:CG2	44:DA:156:ARG:HD2	2.35	0.56
45:DB:6:HIS:CB	45:DB:134:GLN:HG3	2.36	0.56
45:DB:103:LYS:HA	45:DB:107:THR:OG1	2.05	0.56
44:DC:66:VAL:HG13	44:DC:125:LEU:HD11	1.88	0.56
44:DC:203:MET:O	44:DC:303:ALA:HB2	2.05	0.56
44:DE:88:HIS:CG	44:DE:89:PRO:HD2	2.41	0.56
45:DF:9:GLY:O	45:DF:13:GLY:HA3	2.05	0.56
45:DF:62:ARG:HG3	45:DF:123:GLU:OE2	2.04	0.56
45:DF:263:LEU:HG	45:DF:422:TYR:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:308:GLY:HA3	45:DF:372:THR:CG2	2.35	0.56
44:DG:161:TYR:HB3	44:DG:164:LYS:HE2	1.86	0.56
45:DH:317:PHE:CD1	45:DH:365:VAL:HG12	2.40	0.56
45:DH:321:MET:SD	45:DH:353:ILE:HD12	2.44	0.56
45:DH:375:GLN:HG3	45:DH:376:GLU:N	2.20	0.56
44:DI:27:GLU:OE2	44:DI:243:ARG:NH1	2.38	0.56
44:DI:66:VAL:O	44:DI:66:VAL:HG23	2.05	0.56
44:DI:175:PRO:HD2	44:DI:207:GLU:OE1	2.05	0.56
44:DI:348:PRO:HD2	45:DJ:388:MET:CE	2.35	0.56
45:DJ:133:PHE:HB2	45:DJ:164:MET:CE	2.35	0.56
45:DJ:166:THR:OG1	45:DJ:198:GLU:O	2.18	0.56
44:DK:242:LEU:HD11	44:DK:252:ILE:CD1	2.35	0.56
44:DK:288:VAL:O	44:DK:291:ILE:HG12	2.05	0.56
44:DM:109:THR:HG23	44:DM:110:ILE:N	2.21	0.56
44:DM:161:TYR:HB3	44:DM:164:LYS:HE2	1.87	0.56
45:DN:101:TRP:CE3	45:DN:187:LEU:HD13	2.39	0.56
45:DN:112:LEU:O	45:DN:112:LEU:HD23	2.04	0.56
45:DN:268:ILE:CG2	45:DN:368:VAL:HA	2.27	0.56
44:EA:209:ILE:HD12	44:EA:227:LEU:HD22	1.88	0.56
44:EA:377:MET:SD	44:EA:377:MET:N	2.79	0.56
45:EB:12:CYS:O	45:EB:16:ILE:HG12	2.05	0.56
45:EB:207:LEU:HD13	45:EB:225:LEU:O	2.04	0.56
45:EB:293:MET:CG	45:EB:367:PHE:HB2	2.32	0.56
45:EB:314:SER:OG	45:EB:350:LYS:HG3	2.06	0.56
44:EC:25:CYS:CB	44:EC:30:ILE:HB	2.34	0.56
44:EC:217:LEU:CB	44:EC:219:ILE:HG12	2.35	0.56
45:ED:178:THR:HB	45:ED:181:GLU:CG	2.23	0.56
45:ED:257:LEU:O	45:ED:259:PRO:HD3	2.04	0.56
45:ED:274:THR:HG22	45:ED:278:SER:OG	2.04	0.56
45:ED:290:THR:HG22	45:ED:330:MET:HE1	1.87	0.56
45:EF:318:ARG:HD3	45:EF:358:PRO:CG	2.34	0.56
44:EG:315:CYS:O	44:EG:351:PHE:HA	2.05	0.56
44:EG:407:TRP:O	44:EG:410:GLY:N	2.38	0.56
44:EI:22:GLU:HA	44:EI:22:GLU:OE1	2.05	0.56
44:EI:66:VAL:CG1	44:EI:121:ARG:HG3	2.34	0.56
45:EJ:66:MET:HA	45:EJ:73:MET:HE1	1.87	0.56
44:EK:90:GLU:N	44:FI:280:LYS:HZ3	2.03	0.56
44:EK:141:VAL:HG12	44:EK:171:ILE:O	2.05	0.56
44:EK:265:ILE:HG23	44:EK:432:TYR:CE1	2.40	0.56
44:EK:288:VAL:CA	44:EK:291:ILE:HG12	2.34	0.56
44:EM:56:THR:HG23	44:EM:58:ALA:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:68:LEU:HD21	44:EM:118:CYS:SG	2.44	0.56
45:EN:24:ILE:O	45:EN:27:GLU:HG2	2.04	0.56
44:FA:176:GLN:NE2	45:FB:331:LEU:HD13	2.20	0.56
44:FA:230:LEU:O	44:FA:233:GLN:HB2	2.05	0.56
45:FB:51:TYR:CE1	45:FB:61:PRO:HG3	2.40	0.56
45:FB:149:THR:O	45:FB:153:SER:N	2.32	0.56
45:FB:262:ARG:C	45:FB:264:HIS:HD1	2.08	0.56
44:FC:30:ILE:CG2	44:FC:34:GLY:HA2	2.35	0.56
45:FD:86:ARG:HD3	45:GD:281:TYR:HB3	1.86	0.56
45:FD:103:LYS:HA	45:FD:107:THR:OG1	2.05	0.56
45:FD:286:VAL:HA	45:FD:289:LEU:HB2	1.87	0.56
45:FD:381:VAL:O	45:FD:385:PHE:N	2.33	0.56
45:FD:385:PHE:CE2	45:FD:412:GLU:HB2	2.41	0.56
44:FE:3:GLU:OE2	44:FE:131:GLY:N	2.38	0.56
44:FE:224:TYR:CZ	45:FF:323:THR:HG21	2.40	0.56
44:FE:237:SER:CA	44:FE:320:ARG:HH11	2.15	0.56
44:FE:439:THR:HB	45:FH:391:ARG:HH21	1.70	0.56
45:FF:318:ARG:N	45:FF:364:ALA:O	2.32	0.56
45:FF:390:ARG:HG3	45:FF:391:ARG:HG2	1.87	0.56
44:FG:326:LYS:CE	45:FJ:220:PRO:HD2	2.33	0.56
45:FH:396:HIS:HA	45:FH:399:THR:HG22	1.88	0.56
44:FI:206:ASN:OD1	46:FI:501:GTP:N2	2.38	0.56
44:FI:275:ILE:HG23	44:FI:368:LEU:CD1	2.34	0.56
45:FJ:221:THR:HG22	45:FJ:224:ASP:CG	2.25	0.56
44:FK:145:THR:HG22	46:FK:501:GTP:PG	2.45	0.56
44:FK:207:GLU:O	44:FK:210:TYR:HB2	2.06	0.56
44:FK:237:SER:OG	44:FK:376:CYS:SG	2.44	0.56
44:FK:317:MET:HE2	44:FK:375:VAL:CG2	2.35	0.56
44:FK:397:LEU:HD21	45:FL:344:TRP:HA	1.87	0.56
45:FL:139:LEU:HD11	45:FL:168:SER:CB	2.33	0.56
45:FL:235:GLY:HA2	45:FL:238:CYS:HB3	1.88	0.56
45:FN:190:HIS:NE2	45:FN:410:GLU:OE1	2.38	0.56
44:GA:1:MET:HA	44:GA:130:THR:CG2	2.35	0.56
44:GA:175:PRO:HB3	44:GA:390:ARG:NH1	2.20	0.56
44:GC:150:GLY:O	44:GC:154:LEU:HG	2.05	0.56
45:GD:286:VAL:HB	45:GD:325:GLU:CD	2.26	0.56
44:GG:106:GLY:O	44:GG:148:GLY:HA3	2.06	0.56
45:GH:86:ARG:NH1	45:HH:278:SER:HA	2.20	0.56
45:GH:217:LEU:HD11	45:GH:220:PRO:CG	2.35	0.56
45:GH:292:GLN:HA	45:GH:295:ASP:HB2	1.87	0.56
45:GH:317:PHE:CZ	45:GH:326:VAL:HG13	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:179:THR:O	45:GJ:350:LYS:HA	2.05	0.56
45:GJ:344:TRP:CZ3	45:GJ:345:ILE:HB	2.40	0.56
44:GK:2:ARG:HG3	44:GK:133:GLN:NE2	2.20	0.56
44:GK:23:LEU:CD1	44:GK:361:THR:HG23	2.33	0.56
44:GK:100:ALA:O	44:GK:101:ASN:HB2	2.04	0.56
44:GK:214:ARG:CG	45:GL:324:LYS:HE3	2.36	0.56
44:GK:326:LYS:CE	45:GN:220:PRO:HB2	2.35	0.56
44:GM:398:MET:HE2	45:GN:345:ILE:HG13	1.88	0.56
45:GN:7:ILE:HD13	45:GN:135:ILE:CD1	2.36	0.56
45:GN:139:LEU:CD2	45:GN:185:ALA:HA	2.35	0.56
45:GN:169:VAL:HG12	45:GN:202:ILE:HB	1.87	0.56
45:GN:344:TRP:CZ3	45:GN:345:ILE:HB	2.40	0.56
44:HA:101:ASN:HA	44:HA:144:GLY:H	1.71	0.56
44:HA:140:SER:HB3	46:HA:501:GTP:H1'	1.85	0.56
44:HA:169:PHE:CD1	44:HA:202:VAL:HB	2.39	0.56
44:HA:277:SER:O	44:HA:281:ALA:N	2.38	0.56
44:HA:318:MET:HE1	44:HA:352:LYS:HD2	1.87	0.56
45:HB:4:ILE:HG21	45:HB:250:LEU:HD11	1.88	0.56
45:HB:52:ASN:OD1	45:HB:62:ARG:NH2	2.38	0.56
45:HB:214:THR:O	45:HB:275:SER:HB3	2.04	0.56
45:HB:293:MET:HG2	45:HB:294:PHE:CD1	2.40	0.56
44:HC:56:THR:HG22	44:HC:60:LYS:O	2.06	0.56
45:HD:290:THR:HG21	45:HD:329:GLN:CD	2.25	0.56
44:HE:93:ILE:HD12	44:HE:93:ILE:H	1.70	0.56
44:HE:288:VAL:HG21	44:HE:327:ASP:HB3	1.86	0.56
45:HF:122:LYS:O	45:HF:125:GLU:HG3	2.06	0.56
44:HG:5:ILE:HB	44:HG:135:PHE:HE1	1.70	0.56
44:HG:101:ASN:HD21	45:HH:252:LYS:HE2	1.71	0.56
44:HG:220:GLU:HB2	44:HG:221:ARG:HH11	1.70	0.56
44:HG:220:GLU:HB2	44:HG:221:ARG:NH1	2.19	0.56
44:HG:363:VAL:HG23	44:HG:364:PRO:HD2	1.87	0.56
45:HH:234:SER:O	45:HH:238:CYS:HB3	2.05	0.56
45:HH:285:THR:CB	45:HH:287:PRO:HD2	2.35	0.56
45:HJ:256:ASN:CG	45:HJ:350:LYS:HD2	2.25	0.56
44:HK:88:HIS:O	44:HK:91:GLN:HG2	2.05	0.56
44:HK:95:GLY:C	44:HK:96:LYS:HD3	2.25	0.56
45:HL:328:GLU:OE1	45:HL:328:GLU:HA	2.06	0.56
44:HM:173:PRO:HG3	44:HM:183:GLU:OE1	2.05	0.56
44:HM:306:ASP:HB3	44:HM:309:HIS:ND1	2.20	0.56
45:HN:183:TYR:O	45:HN:186:THR:HG22	2.05	0.56
45:HN:185:ALA:O	45:HN:189:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:275:SER:O	45:HN:279:GLN:N	2.39	0.56
45:HN:342:VAL:HG13	45:HN:345:ILE:HG22	1.85	0.56
44:IA:176:GLN:HG3	45:IB:331:LEU:CD2	2.36	0.56
44:IA:254:GLU:HG2	45:ID:98:GLY:HA2	1.86	0.56
44:IA:313:MET:SD	44:IA:382:THR:HG22	2.45	0.56
44:IA:319:TYR:CD2	44:IA:375:VAL:HB	2.40	0.56
44:IA:349:THR:HG21	45:ID:176:SER:HB2	1.87	0.56
45:IB:301:CYS:HB3	45:IB:377:MET:CE	2.35	0.56
45:IB:324:LYS:HE2	45:IB:324:LYS:HA	1.85	0.56
45:ID:86:ARG:HH21	45:ID:88:ASP:CB	2.04	0.56
44:IE:229:ARG:NE	44:IE:363:VAL:HG11	2.21	0.56
44:IE:328:VAL:HG21	44:IE:355:ILE:HD11	1.87	0.56
45:IF:110:ALA:O	45:IF:113:ILE:HG22	2.05	0.56
45:IF:377:MET:O	45:IF:380:ARG:HG2	2.05	0.56
44:IG:2:ARG:CB	44:IG:133:GLN:HE21	2.18	0.56
44:IG:179:THR:HG21	46:IG:501:GTP:H3'	1.87	0.56
44:IG:257:THR:HA	45:IJ:397:TRP:CH2	2.40	0.56
45:IH:184:ASN:OD1	45:IH:185:ALA:N	2.38	0.56
44:II:216:ASN:HD22	44:II:275:ILE:CG2	2.18	0.56
44:II:313:MET:SD	44:II:346:TRP:HZ2	2.28	0.56
45:IJ:86:ARG:NH1	44:JG:284:GLU:HG3	2.19	0.56
45:IJ:139:LEU:CG	45:IJ:168:SER:HB3	2.35	0.56
44:IK:200:VAL:HG13	44:IK:268:MET:SD	2.45	0.56
45:IL:256:ASN:C	45:IL:257:LEU:HD23	2.26	0.56
45:IL:304:ASP:OD1	45:IL:305:PRO:HD2	2.04	0.56
44:IM:205:ASP:OD1	44:IM:303:ALA:HA	2.05	0.56
44:IM:223:THR:HA	45:IN:322:SER:OG	2.05	0.56
44:IM:286:LEU:HA	44:IM:290:GLU:OE2	2.04	0.56
45:IN:323:THR:O	45:IN:326:VAL:N	2.38	0.56
44:JA:319:TYR:CE2	44:JA:375:VAL:HB	2.40	0.56
45:JB:8:GLN:HE22	45:JB:17:GLY:CA	2.17	0.56
45:JB:64:ILE:O	45:JB:65:LEU:HD22	2.04	0.56
44:JC:22:GLU:OE2	44:JC:22:GLU:HA	2.06	0.56
44:JC:168:GLY:O	44:JC:201:ALA:HA	2.05	0.56
44:JC:172:TYR:OH	44:JC:194:LEU:HD21	2.05	0.56
44:JC:285:GLN:OE1	44:JC:285:GLN:N	2.24	0.56
45:JD:166:THR:OG1	45:JD:199:CYS:HA	2.06	0.56
45:JD:192:LEU:HD11	45:JD:196:ALA:HB2	1.88	0.56
45:JD:244:GLY:HA2	45:JD:355:ASP:CG	2.25	0.56
44:JE:221:ARG:HG2	45:JF:322:SER:HB2	1.87	0.56
45:JF:7:ILE:O	45:JF:135:ILE:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:186:THR:HG21	45:JF:385:PHE:CE2	2.40	0.56
44:JG:247:ALA:HB1	45:JJ:222:TYR:CE2	2.40	0.56
45:JH:139:LEU:HA	45:JH:145:SER:HB3	1.87	0.56
45:JH:169:VAL:O	45:JH:169:VAL:HG23	2.05	0.56
45:JH:263:LEU:HD22	45:JH:422:TYR:CE2	2.40	0.56
44:JI:62:VAL:HG13	44:JI:62:VAL:O	2.04	0.56
44:JI:251:ASP:HB2	44:JI:254:GLU:OE1	2.05	0.56
44:JI:257:THR:HA	45:JL:397:TRP:CZ2	2.41	0.56
44:JI:422:ARG:NH1	44:JI:422:ARG:O	2.38	0.56
45:JJ:314:SER:CA	45:JJ:350:LYS:HB3	2.35	0.56
44:JM:68:LEU:CD1	44:JM:93:ILE:HB	2.33	0.56
44:JM:239:THR:O	44:JM:242:LEU:HB2	2.05	0.56
45:JN:86:ARG:HA	45:KN:281:TYR:CD1	2.39	0.56
45:JN:316:LEU:HA	45:JN:352:SER:HB2	1.87	0.56
44:KA:169:PHE:HD1	44:KA:202:VAL:HB	1.70	0.56
44:KA:269:LEU:HD12	44:KA:303:ALA:HB3	1.86	0.56
45:KD:268:ILE:O	45:KD:300:MET:HE2	2.05	0.56
45:KD:423:GLN:HA	45:KD:426:GLN:NE2	2.20	0.56
44:KE:51:THR:HG21	44:KE:243:ARG:HD2	1.86	0.56
44:KE:135:PHE:O	44:KE:136:LEU:HD23	2.04	0.56
44:KE:426:ALA:O	44:KE:429:GLU:HB2	2.06	0.56
45:KF:73:MET:CE	45:KF:92:PHE:HB3	2.35	0.56
44:KG:203:MET:O	44:KG:204:LEU:HD22	2.05	0.56
44:KG:286:LEU:N	44:KG:290:GLU:OE2	2.38	0.56
44:KG:317:MET:HE2	44:KG:319:TYR:CE1	2.39	0.56
45:KH:3:GLU:OE2	45:KH:128:ASP:N	2.35	0.56
45:KH:418:LEU:HD12	45:KH:421:GLU:OE2	2.05	0.56
44:KI:257:THR:HG23	44:KI:258:ASN:OD1	2.05	0.56
44:KI:358:GLN:NE2	44:KI:359:PRO:O	2.37	0.56
45:KJ:40:SER:OG	45:KJ:41:ASP:N	2.37	0.56
45:KJ:67:ASP:OD1	45:KJ:68:LEU:N	2.37	0.56
45:KJ:69:GLU:O	45:KJ:73:MET:HE1	2.05	0.56
44:KK:286:LEU:O	44:KK:373:ARG:NH2	2.38	0.56
44:KK:413:MET:HE2	44:KK:417:GLU:HG3	1.85	0.56
45:KL:203:ASP:OD2	45:KL:377:MET:HE2	2.05	0.56
45:KL:213:ARG:NH1	45:KL:297:LYS:HE3	2.20	0.56
44:KM:167:LEU:HD21	44:KM:255:PHE:CD2	2.39	0.56
44:KM:203:MET:SD	44:KM:384:ILE:HD11	2.45	0.56
44:LA:258:ASN:C	44:LA:259:LEU:HD22	2.26	0.56
45:LB:69:GLU:CG	45:LB:96:GLY:HA2	2.35	0.56
45:LB:142:GLY:HA2	45:LB:145:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:377:MET:O	45:LB:381:VAL:HG23	2.05	0.56
44:LC:339:ARG:HD3	44:LC:339:ARG:O	2.06	0.56
45:LD:130:LEU:HD11	45:LD:133:PHE:HE1	1.69	0.56
45:LD:374:ILE:HG13	45:LD:377:MET:CE	2.35	0.56
44:LE:66:VAL:HG11	44:LE:122:ILE:HD11	1.87	0.56
45:LF:183:TYR:O	45:LF:186:THR:HG22	2.05	0.56
45:LF:215:LEU:CD2	45:LF:217:LEU:HB3	2.35	0.56
45:LF:380:ARG:O	45:LF:383:GLU:HG2	2.05	0.56
45:LH:46:ARG:HG2	45:LH:46:ARG:NH1	2.20	0.56
45:LH:237:THR:HG23	45:LH:241:ARG:HH21	1.69	0.56
44:LI:70:LEU:HD12	44:LI:145:THR:OG1	2.06	0.56
44:LI:183:GLU:N	44:LI:184:PRO:HD2	2.20	0.56
44:LI:291:ILE:HD12	44:LI:375:VAL:CG1	2.35	0.56
44:LI:320:ARG:CD	44:LI:360:PRO:HG3	2.34	0.56
45:LJ:344:TRP:CE3	45:LJ:345:ILE:HG12	2.41	0.56
44:LK:37:PRO:HD2	44:LK:40:LYS:CE	2.34	0.56
44:LK:223:THR:HG22	44:LK:224:TYR:H	1.70	0.56
44:LK:325:PRO:HB2	45:LN:208:TYR:CE1	2.41	0.56
44:LM:70:LEU:HD21	44:LM:149:LEU:HD11	1.87	0.56
44:LM:294:SER:HA	44:LM:297:GLU:HG3	1.86	0.56
44:MA:235:ILE:O	44:MA:239:THR:HG22	2.05	0.56
45:MB:113:ILE:CD1	45:MB:150:LEU:HD22	2.35	0.56
44:MC:195:LEU:HA	44:MC:266:HIS:CE1	2.40	0.56
45:MD:392:LYS:HG3	45:MD:395:LEU:HD23	1.87	0.56
44:ME:322:ASP:OD1	44:ME:373:ARG:NE	2.36	0.56
45:MF:348:ASN:O	45:MF:349:ILE:HD13	2.05	0.56
45:MH:213:ARG:CB	45:MH:297:LYS:HE2	2.35	0.56
45:MH:233:MET:O	45:MH:236:VAL:HG12	2.05	0.56
44:MI:222:PRO:O	45:MJ:322:SER:HB2	2.05	0.56
44:MI:287:SER:O	44:MI:291:ILE:HG23	2.05	0.56
44:MI:298:PRO:HG2	44:MI:308:ARG:NH2	2.20	0.56
44:MI:323:VAL:CG2	44:MI:355:ILE:HD12	2.35	0.56
44:MK:95:GLY:C	44:MK:96:LYS:HD2	2.25	0.56
44:MK:265:ILE:HG23	44:MK:432:TYR:HE1	1.69	0.56
45:ML:73:MET:HE3	45:ML:92:PHE:CD1	2.40	0.56
45:ML:186:THR:O	45:ML:189:VAL:HG12	2.05	0.56
44:MM:137:VAL:HG12	44:MM:167:LEU:O	2.05	0.56
44:NA:86:LEU:HD23	44:NA:87:PHE:CE1	2.40	0.56
44:NA:260:VAL:HG11	45:ND:397:TRP:CZ2	2.40	0.56
44:NA:326:LYS:HD3	45:ND:220:PRO:CD	2.35	0.56
45:NB:143:THR:O	45:NB:147:MET:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:317:PHE:CA	45:NB:365:VAL:HG22	2.14	0.56
45:NB:343:GLU:HG2	45:NB:344:TRP:N	2.20	0.56
44:NC:54:SER:HB3	44:NC:64:ARG:NE	2.10	0.56
44:NC:72:PRO:HG3	44:NC:94:SER:OG	2.06	0.56
44:NC:414:GLU:OE1	44:NC:416:GLY:N	2.25	0.56
45:ND:68:LEU:HD13	45:ND:93:GLY:HA3	1.85	0.56
45:ND:97:ALA:HA	45:ND:103:LYS:NZ	2.20	0.56
44:NE:326:LYS:HD3	45:NH:220:PRO:HD3	1.87	0.56
45:NF:178:THR:HG21	45:NF:184:ASN:HD21	1.69	0.56
45:NF:242:PHE:CB	45:NF:356:ILE:HD13	2.34	0.56
44:NG:183:GLU:N	44:NG:184:PRO:HD2	2.21	0.56
45:NH:109:GLY:HA2	45:NH:147:MET:CE	2.34	0.56
45:NH:167:PHE:HE2	45:NH:233:MET:HG3	1.70	0.56
45:NH:178:THR:OG1	45:NH:181:GLU:HG3	2.06	0.56
44:NI:14:ILE:HG21	44:NI:74:VAL:HG12	1.87	0.56
44:NI:169:PHE:CE1	44:NI:202:VAL:HG21	2.40	0.56
44:NI:230:LEU:O	44:NI:234:VAL:HG23	2.04	0.56
44:NK:113:GLU:O	44:NK:114:ILE:HD13	2.05	0.56
44:NK:222:PRO:CD	45:NL:324:LYS:HD3	2.35	0.56
44:NM:107:HIS:CE1	44:NM:152:LEU:HD13	2.40	0.56
45:NN:311:LEU:HG	45:NN:372:THR:HG22	1.87	0.56
45:OB:61:PRO:HD2	45:OB:84:LEU:O	2.05	0.56
45:OB:262:ARG:HH11	45:OB:421:GLU:HG2	1.70	0.56
44:OC:432:TYR:O	44:OC:435:VAL:HG12	2.05	0.56
45:OD:293:MET:HA	45:OD:298:ASN:ND2	2.18	0.56
44:OE:22:GLU:HG2	44:OE:83:TYR:CE2	2.39	0.56
44:OE:27:GLU:HG3	44:OE:361:THR:CG2	2.29	0.56
44:OE:88:HIS:HD2	44:PE:283:HIS:CB	2.18	0.56
44:OE:98:ASP:O	44:OE:105:ARG:NH1	2.39	0.56
44:OE:333:ALA:HA	44:OE:336:LYS:NZ	2.20	0.56
45:OF:187:LEU:HD11	45:OF:408:PHE:CE1	2.40	0.56
44:OG:4:VAL:HG13	44:OG:134:GLY:O	2.06	0.56
44:OG:17:GLY:HA2	44:OG:20:CYS:CB	2.32	0.56
44:OG:176:GLN:O	45:OH:347:ASN:ND2	2.26	0.56
44:OG:183:GLU:N	44:OG:184:PRO:HD2	2.20	0.56
44:OG:205:ASP:O	44:OG:304:LYS:NZ	2.38	0.56
44:OG:332:ILE:HD12	44:OG:351:PHE:CD1	2.40	0.56
45:OH:173:PRO:HG2	45:OH:380:ARG:HD2	1.86	0.56
45:OJ:127:CYS:SG	45:OJ:130:LEU:HB2	2.46	0.56
44:OK:284:GLU:CG	44:OK:286:LEU:HD22	2.35	0.56
44:OK:288:VAL:O	44:OK:292:THR:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:394:LYS:HZ3	45:OL:346:PRO:HG3	1.69	0.56
45:OL:318:ARG:CZ	45:OL:358:PRO:HD3	2.35	0.56
44:OM:75:ILE:HD11	44:OM:92:LEU:CD2	2.35	0.56
44:PA:98:ASP:OD1	44:PA:99:ALA:N	2.38	0.56
44:PA:109:THR:O	44:PA:113:GLU:HG3	2.06	0.56
44:PA:240:ALA:HB1	44:PA:356:ASN:ND2	2.21	0.56
45:PB:304:ASP:HB3	45:PB:307:HIS:NE2	2.19	0.56
45:PB:313:ALA:O	45:PB:349:ILE:HA	2.06	0.56
44:PC:251:ASP:O	44:PC:254:GLU:N	2.30	0.56
44:PC:296:PHE:HE2	44:PC:335:ILE:HG21	1.70	0.56
45:PD:7:ILE:HB	45:PD:135:ILE:CD1	2.35	0.56
45:PD:244:GLY:HA2	45:PD:355:ASP:OD2	2.05	0.56
45:PF:245:GLN:C	45:PF:246:LEU:HD22	2.26	0.56
45:PF:267:MET:CE	45:PF:374:ILE:HG22	2.35	0.56
45:PF:318:ARG:CB	45:PF:364:ALA:HB3	2.29	0.56
44:PG:49:PHE:O	44:PG:53:PHE:N	2.32	0.56
45:PH:295:ASP:OD1	45:PH:297:LYS:HG2	2.05	0.56
45:PH:316:LEU:HB2	45:PH:366:THR:CG2	2.33	0.56
45:PH:326:VAL:O	45:PH:330:MET:HB2	2.06	0.56
44:PI:93:ILE:HG12	44:PI:117:LEU:HD23	1.87	0.56
44:PI:276:ILE:HG22	44:PI:281:ALA:HB2	1.88	0.56
45:PJ:3:GLU:HG3	45:PJ:62:ARG:NH1	2.20	0.56
44:PK:189:LEU:O	44:PK:192:HIS:HB3	2.04	0.56
45:PL:269:GLY:HA2	45:PL:300:MET:HE2	1.86	0.56
44:PM:64:ARG:NH1	44:PM:129:CYS:SG	2.78	0.56
44:PM:71:GLU:OE1	44:PM:74:VAL:HG13	2.04	0.56
44:PM:216:ASN:ND2	44:PM:275:ILE:HB	2.20	0.56
44:PM:344:VAL:HG21	44:PM:346:TRP:CE2	2.40	0.56
45:PN:7:ILE:HB	45:PN:135:ILE:HD12	1.87	0.56
45:PN:86:ARG:HB3	45:PN:89:ASN:ND2	2.21	0.56
45:PN:314:SER:CA	45:PN:350:LYS:HB3	2.31	0.56
44:QA:118:CYS:O	44:QA:122:ILE:N	2.30	0.56
45:QB:68:LEU:HG	45:QB:96:GLY:H	1.70	0.56
45:QB:265:PHE:HE2	45:QB:418:LEU:HD21	1.69	0.56
44:QC:261:PRO:HB3	44:QC:313:MET:CG	2.30	0.56
45:QD:342:VAL:HG13	45:QD:345:ILE:CG2	2.35	0.56
44:QE:108:TYR:HA	44:QE:112:LYS:HE3	1.86	0.56
44:QG:98:ASP:OD1	44:QG:99:ALA:N	2.37	0.56
44:QG:105:ARG:HA	44:QG:109:THR:HG22	1.86	0.56
44:QG:143:GLY:HA3	46:QG:501:GTP:O3B	2.05	0.56
44:QG:202:VAL:HA	44:QG:268:MET:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:216:ASN:HB3	44:QG:275:ILE:O	2.06	0.56
44:QI:3:GLU:CG	44:QI:51:THR:HA	2.36	0.56
44:QI:137:VAL:HG12	44:QI:168:GLY:HA2	1.84	0.56
44:QI:344:VAL:HG11	44:QI:346:TRP:CZ3	2.41	0.56
45:QL:324:LYS:CE	44:QM:210:TYR:HB3	2.35	0.56
45:QN:271:ALA:HB3	45:QN:293:MET:HE2	1.87	0.56
45:QN:318:ARG:HA	45:QN:354:CYS:HB3	1.87	0.56
44:RA:247:ALA:HB2	44:RA:357:TYR:CZ	2.40	0.56
45:RB:24:ILE:HA	45:RB:27:GLU:HG2	1.87	0.56
45:RB:206:ALA:HB3	45:RB:300:MET:O	2.05	0.56
45:RB:251:ARG:O	45:RB:254:ALA:N	2.38	0.56
45:RB:293:MET:CE	45:RB:365:VAL:HG11	2.36	0.56
44:RC:198:THR:O	44:RC:198:THR:HG23	2.04	0.56
44:RC:208:ALA:HB2	44:RC:304:LYS:N	2.20	0.56
44:RE:183:GLU:N	44:RE:184:PRO:HD2	2.20	0.56
44:RG:71:GLU:OE1	44:RG:73:THR:HB	2.05	0.56
44:RG:328:VAL:HG12	44:RG:332:ILE:CD1	2.35	0.56
45:RH:5:VAL:HG12	45:RH:62:ARG:CD	2.36	0.56
45:RH:113:ILE:O	45:RH:116:VAL:HG12	2.05	0.56
45:RH:183:TYR:CD2	45:RH:388:MET:HE3	2.40	0.56
45:RH:308:GLY:HA3	45:RH:372:THR:CG2	2.34	0.56
45:RH:317:PHE:HE2	45:RH:326:VAL:HG13	1.69	0.56
45:RJ:145:SER:O	45:RJ:149:THR:HG22	2.05	0.56
45:RJ:186:THR:OG1	45:RJ:381:VAL:HG12	2.04	0.56
44:RK:1:MET:HE1	44:RK:2:ARG:HH22	1.70	0.56
44:RK:209:ILE:HG21	44:RK:227:LEU:HB3	1.86	0.56
45:RL:36:TYR:CD1	45:RL:44:LEU:HD21	2.39	0.56
45:RL:382:ALA:O	45:RL:386:THR:N	2.25	0.56
44:RM:93:ILE:H	44:RM:93:ILE:HD12	1.70	0.56
44:RM:194:LEU:HD11	44:RM:267:PHE:CZ	2.41	0.56
45:RN:77:ARG:HD2	45:RN:90:PHE:CZ	2.40	0.56
45:RN:267:MET:HE3	45:RN:374:ILE:HG22	1.87	0.56
44:SA:3:GLU:HG2	44:SA:64:ARG:NE	2.21	0.56
44:SA:145:THR:HG22	46:SA:501:GTP:PG	2.45	0.56
45:SB:7:ILE:HG13	45:SB:64:ILE:HD13	1.87	0.56
45:SB:288:GLU:O	45:SB:292:GLN:HG2	2.05	0.56
44:SC:141:VAL:HG11	44:SC:172:TYR:CD1	2.39	0.56
44:SC:186:ASN:OD1	44:SC:187:SER:N	2.39	0.56
45:SD:10:GLY:O	45:SD:13:GLY:N	2.38	0.56
45:SD:62:ARG:HH12	45:SD:127:CYS:HB3	1.70	0.56
45:SD:169:VAL:HG13	45:SD:202:ILE:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:316:LEU:HA	45:SD:352:SER:HB2	1.87	0.56
44:SE:316:SER:OG	44:SE:352:LYS:HE3	2.06	0.56
44:SG:19:ALA:HA	44:SG:22:GLU:OE1	2.05	0.56
44:SG:174:SER:CB	44:SG:207:GLU:HB2	2.35	0.56
44:SI:104:ALA:HB2	44:SI:408:TYR:CD2	2.40	0.56
45:SJ:61:PRO:HD2	45:SJ:84:LEU:O	2.05	0.56
45:SJ:70:PRO:HG3	45:SJ:93:GLY:O	2.05	0.56
45:SJ:221:THR:HG23	45:SJ:223:GLY:H	1.71	0.56
45:SJ:286:VAL:HA	45:SJ:289:LEU:HG	1.87	0.56
45:SJ:289:LEU:HD21	45:SJ:363:MET:CE	2.36	0.56
44:SK:10:GLY:O	44:SK:13:GLY:N	2.38	0.56
44:SK:66:VAL:HA	44:SK:91:GLN:HE22	1.70	0.56
44:SK:329:ASN:HB3	45:SL:175:VAL:HG11	1.87	0.56
45:SL:25:SER:HB2	45:SL:30:ILE:HB	1.87	0.56
45:SL:65:LEU:HD13	45:SL:90:PHE:CE1	2.41	0.56
45:SL:231:ALA:HB1	45:SL:270:PHE:CE1	2.41	0.56
44:SM:11:GLN:O	44:SM:14:ILE:N	2.38	0.56
44:SM:140:SER:OG	46:SM:501:GTP:O2B	2.11	0.56
44:SM:206:ASN:HB3	44:SM:210:TYR:CZ	2.40	0.56
45:SN:309:ARG:HA	45:SN:340:TYR:O	2.06	0.56
45:SN:377:MET:O	45:SN:380:ARG:HG2	2.05	0.56
44:TA:2:ARG:HD3	44:TA:242:LEU:CD2	2.34	0.56
44:TA:9:VAL:HG22	44:TA:146:GLY:HA2	1.87	0.56
45:TB:268:ILE:HB	45:TB:368:VAL:HG12	1.88	0.56
45:TD:38:GLY:HA3	45:TD:43:GLN:HE22	1.70	0.56
45:TD:91:VAL:HG21	45:TD:116:VAL:HB	1.87	0.56
45:TD:217:LEU:HD11	45:TD:220:PRO:HA	1.88	0.56
45:TF:14:ASN:HB3	45:TF:73:MET:HE1	1.86	0.56
45:TF:100:ASN:HD21	45:TF:102:ALA:HB3	1.70	0.56
45:TF:139:LEU:HB2	45:TF:169:VAL:O	2.05	0.56
45:TF:267:MET:CE	45:TF:299:MET:HB3	2.35	0.56
45:TF:300:MET:HG3	45:TF:300:MET:O	2.05	0.56
44:TG:387:VAL:CA	44:TG:390:ARG:HG2	2.35	0.56
45:TH:168:SER:O	45:TH:201:VAL:HA	2.04	0.56
45:TH:345:ILE:HG23	45:TH:345:ILE:O	2.05	0.56
44:TI:8:HIS:HE1	44:TI:21:TRP:HE1	1.52	0.56
44:TI:250:VAL:HG11	44:TI:318:MET:HE3	1.87	0.56
44:TI:319:TYR:CE1	44:TI:375:VAL:HG23	2.40	0.56
45:TJ:247:ASN:ND2	44:TK:73:THR:HB	2.21	0.56
45:TJ:289:LEU:HD11	45:TJ:363:MET:HB3	1.86	0.56
45:TJ:317:PHE:CE2	45:TJ:326:VAL:HG22	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:75:ILE:HA	44:TK:78:VAL:HG23	1.86	0.56
44:TK:313:MET:HE2	44:TK:380:ASN:CB	2.33	0.56
45:TL:153:SER:O	45:TL:156:ARG:N	2.38	0.56
44:TM:210:TYR:CE1	44:TM:227:LEU:HD11	2.40	0.56
44:TM:317:MET:CE	44:TM:375:VAL:HG22	2.34	0.56
44:TM:319:TYR:HB2	44:TM:355:ILE:HG12	1.87	0.56
44:TM:320:ARG:NE	44:TM:358:GLN:O	2.38	0.56
44:TM:390:ARG:HA	44:TM:393:HIS:HB3	1.88	0.56
45:TN:42:LEU:HD21	45:TN:243:PRO:HD2	1.86	0.56
45:TN:64:ILE:HG12	45:TN:119:VAL:CG2	2.35	0.56
44:UA:13:GLY:HA3	44:UA:138:PHE:O	2.04	0.56
44:UA:260:VAL:CG1	44:UA:266:HIS:HB3	2.35	0.56
44:UA:260:VAL:HG22	44:UA:266:HIS:HA	1.86	0.56
44:UA:281:ALA:O	44:UA:286:LEU:HD21	2.05	0.56
44:UA:320:ARG:CA	44:UA:356:ASN:HB3	2.36	0.56
45:UB:353:ILE:HG13	45:UB:353:ILE:O	2.05	0.56
44:UC:102:ASN:OD1	44:UC:105:ARG:N	2.31	0.56
44:UC:135:PHE:O	44:UC:166:LYS:HA	2.05	0.56
44:UC:294:SER:HA	44:UC:297:GLU:CG	2.33	0.56
45:UD:133:PHE:O	45:UD:165:GLU:HB2	2.05	0.56
45:UD:215:LEU:HD22	45:UD:217:LEU:HA	1.88	0.56
45:UD:378:PHE:HB3	45:UD:419:VAL:HG22	1.85	0.56
44:UE:90:GLU:O	44:UE:121:ARG:NH1	2.38	0.56
45:UF:110:ALA:HA	45:UF:113:ILE:CG2	2.36	0.56
45:UF:183:TYR:O	45:UF:187:LEU:N	2.25	0.56
44:UG:209:ILE:HD13	44:UG:212:ILE:HG13	1.86	0.56
44:UG:296:PHE:CD2	44:UG:335:ILE:HD12	2.40	0.56
44:UG:320:ARG:HB2	44:UG:358:GLN:O	2.06	0.56
45:UH:6:HIS:HE2	45:UH:8:GLN:HB3	1.69	0.56
45:UH:86:ARG:HD3	45:UH:87:PRO:CD	2.29	0.56
45:UH:167:PHE:CZ	45:UH:233:MET:HG2	2.40	0.56
45:UH:197:ASP:O	45:UH:264:HIS:HB2	2.04	0.56
44:UI:5:ILE:HD12	44:UI:135:PHE:CE1	2.40	0.56
44:UI:171:ILE:HG13	44:UI:204:LEU:CB	2.32	0.56
45:UJ:139:LEU:HD23	45:UJ:188:SER:CB	2.35	0.56
45:UJ:309:ARG:HH12	45:UJ:343:GLU:HG2	1.69	0.56
44:UK:251:ASP:CG	44:UK:253:THR:HG22	2.25	0.56
44:UK:292:THR:HA	44:UK:295:ALA:HB3	1.85	0.56
44:UK:301:MET:HG3	44:UK:303:ALA:O	2.05	0.56
45:UL:255:VAL:HA	44:UM:407:TRP:CZ3	2.40	0.56
44:UM:105:ARG:HG2	44:UM:411:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UM:141:VAL:HG22	44:UM:187:SER:OG	2.05	0.56
44:UM:340:THR:HG23	44:UM:341:ILE:HG13	1.86	0.56
45:UN:112:LEU:O	45:UN:112:LEU:HD23	2.05	0.56
45:UN:152:ILE:HD12	45:UN:164:MET:HE2	1.87	0.56
45:UN:238:CYS:SG	45:UN:318:ARG:HD2	2.45	0.56
45:UN:288:GLU:O	45:UN:291:GLN:HG3	2.05	0.56
45:UN:406:MET:O	45:UN:410:GLU:HG3	2.06	0.56
44:VA:141:VAL:HG11	44:VA:172:TYR:CD1	2.41	0.56
44:VA:249:ASN:H	45:VD:11:GLN:HE22	1.51	0.56
45:VB:1:MET:SD	45:VB:129:CYS:HB3	2.45	0.56
45:VB:44:LEU:CD2	45:VB:47:ILE:HD12	2.36	0.56
45:VB:416:ASN:O	45:VB:420:SER:N	2.26	0.56
44:VC:110:ILE:HG13	44:VC:111:GLY:N	2.21	0.56
45:VD:210:ILE:HD12	45:VD:300:MET:HE3	1.85	0.56
45:VD:286:VAL:O	45:VD:289:LEU:N	2.38	0.56
44:VE:51:THR:HB	44:VE:243:ARG:HD3	1.86	0.56
44:VE:223:THR:HB	45:VF:322:SER:OG	2.05	0.56
44:VE:278:ALA:HB2	44:VE:369:ALA:CB	2.35	0.56
45:VF:86:ARG:HG2	45:WF:281:TYR:CD1	2.39	0.56
44:VG:54:SER:HB3	44:VG:64:ARG:HH21	1.70	0.56
44:VG:54:SER:CA	44:VG:64:ARG:HH21	2.17	0.56
44:VG:396:ASP:OD1	44:VG:422:ARG:NE	2.38	0.56
44:VI:188:ILE:HG23	44:VI:425:LEU:HD12	1.85	0.56
45:VJ:3:GLU:CG	45:VJ:127:CYS:HB2	2.36	0.56
44:VK:145:THR:HG22	46:VK:501:GTP:PG	2.45	0.56
45:VL:109:GLY:HA2	45:VL:147:MET:HE2	1.87	0.56
45:VL:186:THR:HG23	45:VL:415:MET:HE1	1.86	0.56
44:VM:105:ARG:NH1	45:VN:251:ARG:HD3	2.19	0.56
44:VM:141:VAL:HG22	44:VM:187:SER:HA	1.87	0.56
44:VM:192:HIS:HD2	44:VM:424:ASP:HB2	1.70	0.56
44:VM:225:THR:O	44:VM:229:ARG:N	2.35	0.56
44:VM:434:GLU:O	44:VM:437:ILE:HG12	2.04	0.56
45:VN:28:HIS:HB2	45:VN:30:ILE:HG12	1.87	0.56
44:WA:103:PHE:HD1	44:WA:147:SER:HG	1.52	0.56
44:WA:135:PHE:O	44:WA:136:LEU:HD23	2.05	0.56
44:WA:136:LEU:CD2	44:WA:167:LEU:HB2	2.34	0.56
44:WA:136:LEU:HD23	44:WA:167:LEU:HB2	1.88	0.56
44:WA:230:LEU:HD21	44:WA:275:ILE:HD11	1.87	0.56
44:WA:231:ILE:HD12	44:WA:231:ILE:H	1.71	0.56
44:WA:275:ILE:HG13	44:WA:368:LEU:HD13	1.87	0.56
44:WA:296:PHE:HD2	44:WA:335:ILE:HD12	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:73:MET:CE	45:WB:76:VAL:HG11	2.35	0.56
44:WC:358:GLN:HG2	44:WC:359:PRO:HD2	1.86	0.56
44:WC:363:VAL:HG22	44:WC:364:PRO:HD2	1.87	0.56
45:WD:285:THR:OG1	45:WD:288:GLU:HG2	2.06	0.56
45:WD:308:GLY:HA3	45:WD:372:THR:CG2	2.35	0.56
44:WE:189:LEU:HD11	44:WE:418:PHE:HE1	1.69	0.56
44:WE:284:GLU:CD	44:WE:286:LEU:H	2.09	0.56
45:WF:23:VAL:O	45:WF:26:ASP:N	2.37	0.56
45:WF:91:VAL:HG21	45:WF:115:SER:HB2	1.86	0.56
45:WH:314:SER:CB	45:WH:350:LYS:HD3	2.35	0.56
44:WI:70:LEU:HD13	44:WI:110:ILE:CD1	2.35	0.56
44:WI:265:ILE:HD11	44:WI:432:TYR:CE1	2.40	0.56
44:WI:287:SER:O	44:WI:291:ILE:N	2.36	0.56
45:WJ:116:VAL:O	45:WJ:119:VAL:HG12	2.04	0.56
45:WJ:199:CYS:HB3	45:WJ:265:PHE:HD1	1.65	0.56
45:WL:182:PRO:HG2	45:WL:388:MET:CE	2.36	0.56
45:WL:262:ARG:NH1	45:WL:421:GLU:OE1	2.39	0.56
45:WL:305:PRO:HB3	45:WL:310:TYR:OH	2.05	0.56
45:WL:355:ASP:O	45:WL:356:ILE:HD13	2.04	0.56
45:WL:372:THR:HA	45:WL:422:TYR:CE2	2.35	0.56
44:WM:2:ARG:HA	44:WM:131:GLY:HA3	1.86	0.56
44:WM:304:LYS:HZ3	44:WM:390:ARG:HD2	1.69	0.56
44:WM:321:GLY:O	44:WM:357:TYR:HA	2.05	0.56
45:WN:183:TYR:HA	45:WN:385:PHE:CE2	2.41	0.56
20:1J:294:LEU:CD1	45:IL:322:SER:HB3	2.33	0.56
22:1L:45:ARG:HE	45:BJ:362:LYS:HE2	1.69	0.56
22:1L:752:LEU:HD11	45:BD:320:ARG:HD2	1.87	0.56
31:2H:180:ILE:HD13	45:AD:227:HIS:HD2	1.71	0.56
24:2O:159:GLN:NE2	44:VK:365:GLY:HA2	2.19	0.56
16:2X:81:ARG:NH2	45:MJ:217:LEU:HD21	2.21	0.56
32:3I:287:ARG:HH22	44:FG:41:THR:HA	1.71	0.56
37:5C:67:ALA:CB	38:5G:69:LYS:HE3	2.29	0.56
37:5D:62:PRO:HB3	45:KN:416:ASN:HA	1.86	0.56
11:5Q:72:LYS:HD3	11:5Q:72:LYS:O	2.05	0.56
35:5R:174:PHE:O	35:5R:175:GLU:HG2	2.04	0.56
36:5S:78:VAL:HG23	36:5S:79:ASN:N	2.19	0.56
36:5S:109:LEU:HD13	36:5S:121:ASP:OD1	2.05	0.56
41:6G:237:PRO:HG3	44:UE:96:LYS:HZ2	1.70	0.56
35:6R:231:TYR:OH	45:CN:216:LYS:HA	2.04	0.56
35:7R:72:ALA:HB1	35:7R:73:PRO:HD2	1.86	0.56
35:7R:547:GLU:O	35:7R:551:LEU:HG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:566:PHE:O	35:7R:570:VAL:HG13	2.06	0.56
44:AA:326:LYS:HD2	45:AD:212:PHE:HE1	1.69	0.56
44:AC:348:PRO:HD2	45:AF:388:MET:CE	2.36	0.56
45:AH:130:LEU:HD11	45:AH:133:PHE:CE1	2.41	0.56
45:AH:174:LYS:CE	45:AH:205:GLU:HG3	2.32	0.56
45:AJ:146:GLY:O	45:AJ:149:THR:HG22	2.05	0.56
44:AK:178:SER:OG	45:AL:347:ASN:HB3	2.04	0.56
45:AN:81:PHE:O	45:AN:84:LEU:HD13	2.05	0.56
44:BC:407:TRP:CZ3	45:BD:255:VAL:HA	2.41	0.56
44:BE:23:LEU:O	44:BE:27:GLU:HG2	2.04	0.56
44:BE:243:ARG:HG3	44:BE:244:PHE:CE1	2.41	0.56
45:BF:341:PHE:CE2	45:BF:349:ILE:HD11	2.40	0.56
44:BG:184:PRO:HG3	44:BG:394:LYS:HE3	1.87	0.56
45:BH:156:ARG:HG3	45:BH:195:ASN:OD1	2.05	0.56
45:BH:251:ARG:HG3	45:BH:251:ARG:NH1	2.21	0.56
44:BI:19:ALA:HA	44:BI:22:GLU:OE1	2.06	0.56
45:BJ:170:VAL:HG11	45:BJ:377:MET:CE	2.35	0.56
44:BK:328:VAL:O	44:BK:332:ILE:HG12	2.06	0.56
45:BL:103:LYS:HA	45:BL:107:THR:CG2	2.34	0.56
44:BM:51:THR:HG22	44:BM:52:PHE:CD1	2.40	0.56
45:BN:52:ASN:HB2	45:BN:60:VAL:CG1	2.34	0.56
45:CB:86:ARG:HG2	45:DB:281:TYR:HE2	1.70	0.56
44:CC:229:ARG:HD3	44:CC:363:VAL:CG1	2.35	0.56
45:CD:86:ARG:CB	45:CD:89:ASN:HD22	2.17	0.56
45:CD:109:GLY:HA2	45:CD:147:MET:CE	2.35	0.56
44:CE:193:SER:O	44:CE:197:HIS:HB2	2.06	0.56
45:CF:200:MET:SD	45:CF:368:VAL:HG23	2.44	0.56
44:CG:326:LYS:HG3	45:CH:212:PHE:HE2	1.70	0.56
45:CH:24:ILE:HG12	45:CH:233:MET:CE	2.36	0.56
45:CH:246:LEU:HD23	46:CI:501:GTP:O1A	2.05	0.56
45:CL:69:GLU:CD	45:CL:71:GLY:H	2.09	0.56
44:CM:102:ASN:HA	44:CM:408:TYR:CZ	2.40	0.56
44:CM:132:LEU:CD2	44:CM:164:LYS:HD2	2.35	0.56
44:CM:256:GLN:HB2	44:CM:260:VAL:HB	1.87	0.56
44:CM:310:GLY:CA	44:CM:383:ALA:HB2	2.35	0.56
45:CN:32:PRO:HG3	45:CN:81:PHE:CZ	2.40	0.56
45:CN:358:PRO:HB2	45:CN:361:LEU:HB2	1.86	0.56
44:DA:316:SER:CB	44:DA:352:LYS:HB3	2.35	0.56
45:DB:119:VAL:HA	45:DB:122:LYS:HZ3	1.69	0.56
45:DB:256:ASN:HD22	45:DB:350:LYS:CD	2.18	0.56
44:DC:66:VAL:CG1	44:DC:125:LEU:HD11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:98:ASP:OD1	44:DC:99:ALA:N	2.38	0.56
45:DD:186:THR:O	45:DD:415:MET:HE3	2.05	0.56
45:DD:350:LYS:HA	44:DE:179:THR:O	2.06	0.56
44:DE:68:LEU:CD1	44:DE:93:ILE:HB	2.33	0.56
44:DG:252:ILE:HA	44:DG:255:PHE:CE2	2.41	0.56
45:DH:68:LEU:HB2	45:DH:143:THR:OG1	2.06	0.56
45:DH:215:LEU:O	45:DH:216:LYS:HG2	2.06	0.56
44:DI:28:HIS:HE1	44:DI:243:ARG:HH11	1.52	0.56
44:DI:268:MET:HB2	44:DI:379:SER:O	2.05	0.56
45:DJ:103:LYS:O	45:DJ:107:THR:OG1	2.22	0.56
45:DJ:192:LEU:CD1	45:DJ:196:ALA:HB2	2.35	0.56
44:DM:204:LEU:HD22	44:DM:231:ILE:HD13	1.86	0.56
44:DM:319:TYR:HB3	44:DM:373:ARG:NH1	2.21	0.56
45:DN:3:GLU:OE1	45:DN:129:CYS:HB3	2.05	0.56
44:EA:195:LEU:HA	44:EA:266:HIS:NE2	2.21	0.56
44:EA:214:ARG:O	44:EA:218:ASP:HA	2.06	0.56
44:EE:217:LEU:CD2	44:EE:367:ASP:HB3	2.33	0.56
44:EG:67:PHE:C	44:EG:68:LEU:HD12	2.26	0.56
45:EL:259:PRO:HA	44:EM:404:PHE:CZ	2.40	0.56
44:EM:313:MET:H	44:EM:381:SER:HA	1.69	0.56
45:EN:16:ILE:HD13	45:EN:226:ASN:HA	1.88	0.56
45:EN:72:THR:O	45:EN:75:SER:OG	2.16	0.56
45:EN:274:THR:OG1	45:EN:279:GLN:HA	2.06	0.56
45:EN:311:LEU:O	45:EN:348:ASN:ND2	2.37	0.56
44:FA:121:ARG:HG3	44:FA:125:LEU:CD1	2.35	0.56
44:FE:433:GLU:O	44:FE:437:ILE:HD12	2.06	0.56
44:FG:2:ARG:O	44:FG:51:THR:HA	2.06	0.56
44:FI:344:VAL:HG11	44:FI:346:TRP:NE1	2.21	0.56
45:FJ:215:LEU:HD22	45:FJ:217:LEU:CB	2.28	0.56
45:FL:139:LEU:HD13	45:FL:170:VAL:HG12	1.87	0.56
44:FM:54:SER:N	44:FM:62:VAL:O	2.31	0.56
45:FN:49:VAL:HG12	45:FN:50:TYR:CD2	2.40	0.56
45:FN:54:ALA:HB1	45:GN:281:TYR:O	2.06	0.56
45:FN:74:ASP:HA	45:FN:77:ARG:NH1	2.20	0.56
44:GA:238:LEU:O	44:GA:238:LEU:HD23	2.05	0.56
44:GA:242:LEU:HD21	44:GA:252:ILE:HG13	1.87	0.56
44:GC:272:TYR:HD1	44:GC:376:CYS:HB2	1.69	0.56
44:GC:306:ASP:HB3	44:GC:309:HIS:CG	2.40	0.56
45:GD:114:ASP:OD1	45:GD:115:SER:N	2.38	0.56
45:GD:171:PRO:HB3	45:GD:181:GLU:OE1	2.06	0.56
45:GD:256:ASN:C	45:GD:257:LEU:HD12	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:313:MET:CE	44:GE:382:THR:HG22	2.35	0.56
45:GF:303:ALA:H	45:GF:377:MET:HE1	1.71	0.56
45:GH:40:SER:OG	45:GH:43:GLN:HG3	2.06	0.56
45:GH:163:ILE:CG2	45:GH:251:ARG:HD3	2.35	0.56
45:GH:256:ASN:C	45:GH:257:LEU:HD12	2.25	0.56
44:GI:286:LEU:HG	44:GI:371:VAL:HG11	1.86	0.56
44:GK:214:ARG:NH1	44:GK:220:GLU:HA	2.21	0.56
45:GN:130:LEU:HD12	45:GN:131:GLN:H	1.70	0.56
44:HA:178:SER:OG	45:HB:347:ASN:HB3	2.06	0.56
45:HB:184:ASN:OD1	45:HB:185:ALA:N	2.38	0.56
44:HC:117:LEU:HA	44:HC:120:ASP:OD2	2.06	0.56
45:HD:130:LEU:HG	45:HD:162:ARG:CD	2.34	0.56
45:HD:130:LEU:HD23	45:HD:162:ARG:HG3	1.87	0.56
45:HD:256:ASN:C	45:HD:257:LEU:HD12	2.26	0.56
44:HE:195:LEU:HD12	44:HE:267:PHE:HE1	1.70	0.56
44:HG:135:PHE:CD2	44:HG:157:LEU:HD21	2.40	0.56
44:HG:407:TRP:HZ3	45:HH:255:VAL:HA	1.69	0.56
45:HJ:245:GLN:C	45:HJ:246:LEU:HD12	2.25	0.56
44:HK:207:GLU:HA	44:HK:210:TYR:HB2	1.88	0.56
44:HK:258:ASN:ND2	44:HK:352:LYS:HE2	2.20	0.56
44:HK:293:ASN:OD1	44:HK:294:SER:N	2.38	0.56
44:HK:408:TYR:HB3	44:HK:413:MET:HE3	1.86	0.56
44:HM:32:PRO:HD2	44:HM:33:ASP:H	1.70	0.56
44:IA:221:ARG:HD2	45:IB:322:SER:CB	2.29	0.56
45:IB:284:LEU:HB3	45:IB:363:MET:CE	2.36	0.56
44:IC:174:SER:OG	44:IC:207:GLU:HB2	2.06	0.56
44:IC:350:GLY:HA2	45:IF:179:VAL:HG12	1.87	0.56
45:ID:187:LEU:HD12	45:ID:411:ALA:HB2	1.87	0.56
44:IE:201:ALA:HB3	44:IE:267:PHE:CE2	2.40	0.56
45:IJ:7:ILE:HG12	45:IJ:64:ILE:HD13	1.86	0.56
45:IJ:230:SER:HA	45:IJ:233:MET:CE	2.35	0.56
44:IK:202:VAL:O	44:IK:203:MET:HE2	2.05	0.56
45:IN:4:ILE:HD11	45:IN:50:TYR:OH	2.04	0.56
45:IN:47:ILE:HD11	45:IN:51:TYR:CD2	2.40	0.56
45:IN:309:ARG:N	45:IN:372:THR:OG1	2.32	0.56
45:IN:377:MET:O	45:IN:380:ARG:HG2	2.06	0.56
45:JB:20:PHE:HE2	45:JB:233:MET:HB3	1.68	0.56
45:JD:133:PHE:HB2	45:JD:164:MET:SD	2.45	0.56
44:JG:36:MET:HE1	44:JG:41:THR:HB	1.87	0.56
44:JG:60:LYS:HE2	44:KG:283:HIS:NE2	2.21	0.56
44:JG:98:ASP:OD1	44:JG:99:ALA:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:334:THR:O	44:JG:338:LYS:NZ	2.38	0.56
45:JH:36:TYR:CE2	45:JH:44:LEU:HD21	2.40	0.56
44:JI:28:HIS:NE2	44:JI:48:ALA:O	2.39	0.56
45:JN:274:THR:HB	45:JN:282:ARG:NH2	2.20	0.56
45:JN:405:GLU:HA	45:JN:408:PHE:CD2	2.35	0.56
45:KB:222:TYR:O	45:KB:226:ASN:ND2	2.38	0.56
44:KC:47:ASP:HB2	44:KC:49:PHE:CD2	2.40	0.56
45:KD:217:LEU:HD11	45:KD:220:PRO:CB	2.34	0.56
44:KE:66:VAL:HG12	44:KE:92:LEU:HD11	1.87	0.56
44:KE:296:PHE:HD2	44:KE:335:ILE:HG12	1.69	0.56
45:KF:272:PRO:HB2	45:KF:282:ARG:HH12	1.71	0.56
44:KG:320:ARG:HH21	44:KG:360:PRO:CA	2.18	0.56
44:KG:326:LYS:NZ	45:KJ:220:PRO:HD2	2.21	0.56
45:KH:45:GLU:HG3	45:KH:46:ARG:CD	2.34	0.56
45:KH:49:VAL:HG11	45:KH:241:ARG:HG2	1.88	0.56
44:KI:96:LYS:HA	45:KJ:1:MET:HE3	1.87	0.56
44:KI:175:PRO:HB2	44:KI:390:ARG:NH2	2.18	0.56
45:KJ:6:HIS:NE2	45:KJ:8:GLN:HB3	2.21	0.56
45:KJ:65:LEU:HD12	45:KJ:90:PHE:CE2	2.41	0.56
44:KM:210:TYR:CE1	44:KM:227:LEU:HD11	2.41	0.56
44:KM:308:ARG:HD2	44:NM:282:TYR:CE1	2.40	0.56
44:KM:314:ALA:CB	44:KM:380:ASN:HB3	2.32	0.56
45:KN:218:THR:HG23	45:KN:219:THR:N	2.21	0.56
44:LE:13:GLY:O	44:LE:16:VAL:HG22	2.05	0.56
44:LG:318:MET:SD	44:LG:354:GLY:HA3	2.46	0.56
44:LI:288:VAL:O	44:LI:291:ILE:HG12	2.05	0.56
45:LJ:180:VAL:O	45:LJ:180:VAL:HG12	2.05	0.56
44:LK:430:LYS:O	44:LK:434:GLU:HG2	2.05	0.56
44:LM:319:TYR:HB2	44:LM:355:ILE:CD1	2.32	0.56
45:LN:385:PHE:HE2	45:LN:412:GLU:HB2	1.70	0.56
44:ME:71:GLU:OE2	44:ME:73:THR:HG23	2.05	0.56
44:ME:189:LEU:HD21	44:ME:418:PHE:CE1	2.40	0.56
45:MF:189:VAL:HG23	45:MF:415:MET:HE1	1.88	0.56
44:MG:251:ASP:O	44:MG:254:GLU:N	2.33	0.56
45:MH:100:ASN:HD21	45:MH:102:ALA:HB3	1.70	0.56
45:MH:245:GLN:HA	45:MH:245:GLN:OE1	2.05	0.56
45:MH:330:MET:O	45:MH:333:VAL:HG12	2.05	0.56
45:NB:391:ARG:HD3	45:NB:391:ARG:O	2.05	0.56
44:NC:28:HIS:HB2	44:NC:30:ILE:CD1	2.36	0.56
44:NC:242:LEU:HD21	44:NC:252:ILE:HG13	1.87	0.56
45:NF:264:HIS:O	45:NF:265:PHE:HD2	1.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:117:LEU:HA	45:NH:120:VAL:CG1	2.35	0.56
45:NH:341:PHE:HE2	45:NH:349:ILE:HD11	1.71	0.56
45:NJ:215:LEU:HD21	45:NJ:273:LEU:CD1	2.35	0.56
45:NJ:269:GLY:HA2	45:NJ:300:MET:HE2	1.86	0.56
45:NJ:320:ARG:NE	45:NJ:320:ARG:HA	2.21	0.56
44:NK:362:VAL:HG23	44:NK:368:LEU:CB	2.35	0.56
45:NL:305:PRO:HA	45:NL:373:ALA:CB	2.31	0.56
45:NN:270:PHE:O	45:NN:298:ASN:ND2	2.38	0.56
45:NN:368:VAL:HG13	45:NN:368:VAL:O	2.04	0.56
44:OA:288:VAL:HA	44:OA:291:ILE:HD11	1.86	0.56
44:OA:315:CYS:HA	44:OA:379:SER:OG	2.05	0.56
44:OE:358:GLN:NE2	44:OE:359:PRO:O	2.34	0.56
44:OG:254:GLU:OE2	45:OJ:98:GLY:N	2.34	0.56
45:OJ:170:VAL:HG23	45:OJ:377:MET:CE	2.35	0.56
45:OJ:187:LEU:HD11	45:OJ:408:PHE:CZ	2.40	0.56
44:OK:311:LYS:HD2	44:OK:342:GLN:CG	2.30	0.56
44:OM:219:ILE:HG22	44:OM:222:PRO:HD3	1.86	0.56
45:ON:276:ARG:HA	45:ON:279:GLN:HG3	1.86	0.56
44:PA:271:SER:O	44:PA:377:MET:HG3	2.06	0.56
44:PC:294:SER:O	44:PC:300:ASN:ND2	2.22	0.56
45:PD:52:ASN:HB2	45:PD:62:ARG:NE	2.20	0.56
45:PD:257:LEU:HB3	45:PD:266:PHE:CZ	2.41	0.56
44:PE:107:HIS:NE2	44:PE:151:SER:HB2	2.19	0.56
44:PE:288:VAL:HG11	44:PE:327:ASP:CB	2.33	0.56
45:PF:20:PHE:CD1	45:PF:24:ILE:CA	2.89	0.56
45:PF:33:THR:O	45:PF:58:ARG:NH2	2.38	0.56
44:PI:151:SER:O	44:PI:155:GLU:HG3	2.06	0.56
44:PK:137:VAL:HG13	44:PK:168:GLY:HA3	1.87	0.56
45:PL:258:ILE:HD12	45:PL:264:HIS:HB3	1.88	0.56
45:PN:8:GLN:HE21	45:PN:65:LEU:HG	1.70	0.56
44:QA:151:SER:O	44:QA:155:GLU:HG3	2.06	0.56
44:QC:66:VAL:HG22	44:QC:68:LEU:CD1	2.35	0.56
44:QC:226:ASN:ND2	44:QC:367:ASP:OD2	2.38	0.56
45:QF:19:LYS:CB	45:QF:226:ASN:HB3	2.36	0.56
45:QH:20:PHE:O	45:QH:24:ILE:HG12	2.04	0.56
45:QH:178:THR:HB	45:QH:181:GLU:HG3	1.86	0.56
44:QI:34:GLY:O	44:QI:60:LYS:HA	2.04	0.56
44:QI:291:ILE:HG13	44:QI:292:THR:N	2.18	0.56
44:QK:109:THR:HG23	44:QK:110:ILE:HG23	1.86	0.56
44:QM:393:HIS:CD2	44:QM:397:LEU:HD11	2.41	0.56
45:QN:148:GLY:O	45:QN:152:ILE:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:103:PHE:HB2	44:RA:186:ASN:HB3	1.88	0.56
44:RC:325:PRO:HG2	45:RD:222:TYR:CE2	2.41	0.56
45:RD:257:LEU:O	45:RD:259:PRO:HD3	2.06	0.56
45:RF:173:PRO:CG	45:RF:380:ARG:HD2	2.35	0.56
44:RG:243:ARG:HG3	44:RG:244:PHE:CD2	2.41	0.56
45:RH:274:THR:CB	45:RH:282:ARG:HH12	2.18	0.56
44:RK:174:SER:HB3	44:RK:207:GLU:HB2	1.87	0.56
44:RK:252:ILE:HA	44:RK:255:PHE:CE2	2.41	0.56
45:RL:2:ARG:H	45:RL:129:CYS:HB3	1.70	0.56
45:RL:24:ILE:O	45:RL:27:GLU:N	2.38	0.56
45:RL:86:ARG:HH21	45:RL:87:PRO:HG2	1.69	0.56
45:RL:305:PRO:HB3	45:RL:310:TYR:OH	2.05	0.56
44:RM:319:TYR:OH	44:RM:328:VAL:HG13	2.05	0.56
45:RN:52:ASN:HB2	45:RN:60:VAL:HG13	1.86	0.56
44:SA:387:VAL:HG22	44:SA:391:LEU:HD13	1.87	0.56
45:SB:204:ASN:O	45:SB:208:TYR:N	2.24	0.56
45:SB:207:LEU:HD11	45:SB:300:MET:HE1	1.86	0.56
44:SC:12:GLY:HA2	44:SC:15:GLN:HB2	1.87	0.56
44:SE:99:ALA:N	44:SE:145:THR:H	2.04	0.56
44:SE:118:CYS:O	44:SE:122:ILE:HG12	2.05	0.56
45:SF:50:TYR:O	45:SF:62:ARG:HG2	2.04	0.56
44:SG:102:ASN:HD21	44:SG:411:GLU:HG3	1.70	0.56
44:SI:325:PRO:HA	44:SI:328:VAL:CG2	2.35	0.56
45:SJ:319:GLY:C	45:SJ:355:ASP:HA	2.26	0.56
45:SJ:358:PRO:HB2	45:SJ:361:LEU:CB	2.32	0.56
44:SK:48:ALA:HB1	44:SK:243:ARG:O	2.06	0.56
44:SK:276:ILE:HG12	44:SK:281:ALA:HA	1.87	0.56
45:SL:131:GLN:O	45:SL:163:ILE:HG12	2.06	0.56
45:SL:206:ALA:O	45:SL:210:ILE:N	2.35	0.56
45:SN:47:ILE:HG21	45:SN:59:TYR:CE2	2.40	0.56
44:TA:10:GLY:N	44:TA:68:LEU:O	2.39	0.56
44:TA:258:ASN:HA	45:TB:179:VAL:CG2	2.35	0.56
44:TC:179:THR:HB	46:TC:501:GTP:O3'	2.05	0.56
44:TC:326:LYS:HD3	45:TD:212:PHE:HZ	1.71	0.56
45:TD:8:GLN:HE21	45:TD:65:LEU:HG	1.69	0.56
44:TE:93:ILE:HG12	44:TE:117:LEU:HB3	1.88	0.56
45:TF:4:ILE:HG13	45:TF:50:TYR:CE1	2.41	0.56
44:TG:208:ALA:HB2	44:TG:304:LYS:HE3	1.87	0.56
45:TH:259:PRO:CG	45:TH:263:LEU:HD22	2.31	0.56
45:TJ:200:MET:HE3	45:TJ:266:PHE:CD2	2.40	0.56
45:TJ:267:MET:CE	45:TJ:299:MET:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:334:GLN:HB2	45:TJ:349:ILE:HD12	1.86	0.56
44:TK:254:GLU:OE2	45:TL:98:GLY:HA2	2.04	0.56
44:TK:291:ILE:HA	44:TK:294:SER:HB3	1.87	0.56
45:TL:55:THR:HG21	45:UL:284:LEU:H	1.70	0.56
44:TM:170:THR:O	44:TM:204:LEU:HB2	2.06	0.56
45:TN:64:ILE:HG13	45:TN:89:ASN:CG	2.24	0.56
44:UA:99:ALA:CB	44:UA:145:THR:HB	2.35	0.56
44:UC:132:LEU:CD2	44:UC:164:LYS:HD2	2.34	0.56
44:UC:179:THR:HG21	46:UC:501:GTP:H3'	1.88	0.56
45:UD:40:SER:OG	45:UD:43:GLN:HG3	2.06	0.56
45:UD:238:CYS:HA	45:UD:241:ARG:NH2	2.21	0.56
45:UF:2:ARG:C	45:UF:131:GLN:HB2	2.25	0.56
45:UF:166:THR:OG1	45:UF:199:CYS:HA	2.05	0.56
44:UG:70:LEU:CD2	44:UG:114:ILE:HG21	2.27	0.56
44:UG:132:LEU:HD11	44:UG:164:LYS:HE3	1.87	0.56
44:UG:214:ARG:O	44:UG:218:ASP:HA	2.05	0.56
44:UG:387:VAL:HA	44:UG:390:ARG:HH11	1.70	0.56
44:UG:422:ARG:HH12	44:UG:426:ALA:HB2	1.71	0.56
45:UH:7:ILE:HB	45:UH:135:ILE:CD1	2.35	0.56
44:UI:223:THR:HG23	44:UI:225:THR:H	1.69	0.56
45:UJ:46:ARG:O	45:UJ:49:VAL:HG22	2.05	0.56
45:UJ:200:MET:CE	45:UJ:268:ILE:HG23	2.35	0.56
45:UL:24:ILE:HA	45:UL:27:GLU:CB	2.36	0.56
45:UL:67:ASP:OD1	45:UL:68:LEU:N	2.34	0.56
44:UM:100:ALA:CB	44:UM:105:ARG:HH11	2.19	0.56
44:VA:287:SER:O	44:VA:291:ILE:HG22	2.06	0.56
45:VB:50:TYR:O	45:VB:61:PRO:HA	2.06	0.56
45:VB:382:ALA:HB2	45:VB:415:MET:CE	2.35	0.56
44:VC:30:ILE:HD13	44:VC:36:MET:SD	2.45	0.56
44:VC:185:TYR:OH	44:VC:398:MET:HB3	2.06	0.56
44:VG:306:ASP:OD2	44:VG:309:HIS:NE2	2.39	0.56
45:VH:65:LEU:HD22	45:VH:90:PHE:CE1	2.39	0.56
44:VI:344:VAL:HG11	44:VI:346:TRP:CE2	2.41	0.56
45:VJ:326:VAL:O	45:VJ:330:MET:HG2	2.04	0.56
44:VM:21:TRP:HZ2	44:VM:65:ALA:HB2	1.66	0.56
45:VN:4:ILE:HB	45:VN:132:GLY:O	2.06	0.56
45:VN:8:GLN:HB2	45:VN:13:GLY:O	2.05	0.56
45:VN:30:ILE:CD1	45:VN:36:TYR:HA	2.34	0.56
44:WA:244:PHE:HB2	44:WA:356:ASN:ND2	2.11	0.56
44:WA:275:ILE:HG13	44:WA:368:LEU:CD1	2.36	0.56
45:WB:22:GLU:HG2	45:WB:81:PHE:CD1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:340:THR:HG23	44:WC:341:ILE:HG13	1.87	0.56
45:WD:345:ILE:O	45:WD:345:ILE:HG23	2.05	0.56
45:WF:16:ILE:HD13	45:WF:226:ASN:OD1	2.06	0.56
45:WF:32:PRO:HG3	45:WF:81:PHE:CE1	2.41	0.56
45:WH:320:ARG:NH2	45:WH:362:LYS:HE2	2.20	0.56
45:WH:321:MET:HE1	45:WH:326:VAL:HG21	1.88	0.56
45:WJ:370:ASN:OD1	45:WJ:422:TYR:OH	2.23	0.56
44:WK:311:LYS:HA	44:WK:342:GLN:NE2	2.20	0.56
5:0D:164:PRO:HD2	45:EB:40:SER:HA	1.86	0.56
5:0D:175:THR:HG22	44:EC:79:ARG:NH2	2.19	0.56
18:1F:97:LEU:HD22	44:GI:29:GLY:HA2	1.86	0.56
20:1J:125:ARG:HH11	44:IE:280:LYS:HE3	1.71	0.56
10:1N:427:ARG:CZ	44:II:42:ILE:HD11	2.34	0.56
30:2G:29:ARG:HB3	44:JG:1:MET:HE1	1.86	0.56
10:2N:8:ARG:NH1	45:IB:53:GLU:H	2.04	0.56
26:2R:224:PHE:CD1	45:BJ:80:PRO:HG3	2.41	0.56
15:2V:96:ASN:HB2	45:LF:262:ARG:HG3	1.88	0.56
31:3H:180:ILE:HG23	45:AH:224:ASP:OD1	2.05	0.56
14:3U:236:LEU:CB	45:WN:33:THR:HG22	2.35	0.56
16:4X:121:LYS:HE2	45:LH:362:LYS:HZ1	1.69	0.56
37:5C:57:PRO:HG2	45:KJ:390:ARG:HG3	1.80	0.56
37:5D:41:SER:CB	45:KN:179:VAL:HG21	2.33	0.56
38:5F:140:ASN:HB3	45:OH:279:GLN:NE2	2.21	0.56
38:5G:11:TRP:HE3	38:5G:14:ARG:NE	2.04	0.56
38:5H:123:ARG:HH11	44:OM:370:LYS:HE2	1.70	0.56
39:5J:113:GLN:NE2	45:JJ:410:GLU:HG2	2.17	0.56
41:6G:115:ILE:O	41:6G:116:ILE:HG12	2.05	0.56
41:6G:270:THR:HG23	44:VA:298:PRO:CG	2.32	0.56
35:7R:171:ILE:HG22	35:7R:173:LEU:CD1	2.36	0.56
35:7R:278:TYR:OH	35:7R:330:SER:HA	2.05	0.56
35:7R:401:VAL:HG12	45:EB:277:GLY:CA	2.35	0.56
35:7R:452:THR:HG21	35:7R:473:ARG:HE	1.70	0.56
44:AA:145:THR:O	44:AA:149:LEU:HB2	2.05	0.56
44:AC:186:ASN:OD1	44:AC:187:SER:N	2.38	0.56
44:AC:384:ILE:HG22	44:AC:432:TYR:HE2	1.69	0.56
45:AF:3:GLU:CG	45:AF:127:CYS:HB2	2.35	0.56
45:AH:6:HIS:HE1	45:AH:8:GLN:HB3	1.70	0.56
44:AI:87:PHE:HB2	44:AI:92:LEU:HD11	1.88	0.56
44:AI:222:PRO:CG	45:AJ:324:LYS:HD3	2.36	0.56
45:AJ:61:PRO:CG	45:AJ:84:LEU:HB3	2.36	0.56
44:AK:93:ILE:HD12	44:AK:117:LEU:CD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:393:HIS:O	44:AK:397:LEU:HD23	2.05	0.56
44:AM:317:MET:O	44:AM:354:GLY:N	2.35	0.56
44:BA:191:THR:O	44:BA:194:LEU:HG	2.05	0.56
45:BB:139:LEU:HD22	45:BB:170:VAL:HG12	1.87	0.56
44:BC:230:LEU:HD12	44:BC:275:ILE:HD13	1.87	0.56
45:BD:143:THR:HG22	48:BD:502:GDP:O1B	2.04	0.56
45:BD:173:PRO:HD3	45:BD:380:ARG:HD3	1.86	0.56
44:BE:141:VAL:CG2	44:BE:187:SER:HA	2.34	0.56
44:BE:287:SER:O	44:BE:291:ILE:HG23	2.05	0.56
44:BG:121:ARG:NH1	44:BG:124:LYS:HD2	2.19	0.56
44:BK:183:GLU:N	44:BK:184:PRO:HD2	2.20	0.56
45:BL:65:LEU:HB2	45:BL:90:PHE:CE1	2.40	0.56
44:BM:222:PRO:O	45:BN:322:SER:HB2	2.05	0.56
45:CB:211:CYS:SG	45:CB:228:LEU:HD11	2.45	0.56
44:CC:206:ASN:HB2	44:CC:210:TYR:CZ	2.41	0.56
45:CD:387:ALA:O	45:CD:390:ARG:HG2	2.05	0.56
44:CE:238:LEU:HD12	44:CE:238:LEU:O	2.05	0.56
45:CJ:180:VAL:O	45:CJ:180:VAL:HG12	2.06	0.56
44:CK:183:GLU:HG2	44:CK:184:PRO:CD	2.34	0.56
44:CK:423:GLU:O	44:CK:427:ALA:N	2.34	0.56
45:CL:324:LYS:HB2	44:CM:222:PRO:HG2	1.87	0.56
45:CL:325:GLU:HG3	45:CL:328:GLU:OE2	2.05	0.56
44:CM:435:VAL:HA	45:CN:391:ARG:NH2	2.21	0.56
45:CN:304:ASP:OD1	45:CN:305:PRO:HD2	2.06	0.56
44:DA:255:PHE:O	44:DA:259:LEU:HB2	2.06	0.56
45:DB:259:PRO:HA	44:DC:404:PHE:CZ	2.40	0.56
44:DC:175:PRO:HG3	44:DC:304:LYS:HG2	1.85	0.56
44:DE:172:TYR:HB3	44:DE:173:PRO:CD	2.35	0.56
45:DF:31:ASP:HB3	45:DF:32:PRO:HD2	1.88	0.56
45:DF:308:GLY:HA3	45:DF:372:THR:HG23	1.88	0.56
44:DI:141:VAL:CG2	44:DI:187:SER:HA	2.35	0.56
44:DI:153:LEU:O	44:DI:157:LEU:HG	2.05	0.56
44:DI:294:SER:O	44:DI:297:GLU:HG2	2.05	0.56
45:DJ:208:TYR:CE1	45:DJ:225:LEU:HD11	2.40	0.56
44:DK:358:GLN:NE2	44:DK:359:PRO:HD2	2.20	0.56
45:DL:19:LYS:HG3	45:DL:23:VAL:HG23	1.86	0.56
45:DL:69:GLU:OE1	45:DL:71:GLY:N	2.37	0.56
45:DL:381:VAL:O	45:DL:384:GLN:HB2	2.06	0.56
45:DN:260:PHE:CG	45:DN:263:LEU:HD13	2.41	0.56
44:EA:272:TYR:OH	44:EA:374:ALA:HB1	2.05	0.56
45:EB:69:GLU:OE2	45:EB:72:THR:N	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:186:THR:HG21	45:EB:385:PHE:CD1	2.40	0.56
45:EB:190:HIS:O	45:EB:193:VAL:HG12	2.05	0.56
45:ED:50:TYR:O	45:ED:61:PRO:HA	2.05	0.56
45:ED:261:PRO:HB3	44:EE:406:HIS:CD2	2.39	0.56
45:ED:337:ASN:HB3	45:ED:340:TYR:CB	2.24	0.56
44:EE:28:HIS:HE1	44:EE:49:PHE:HA	1.71	0.56
44:EE:188:ILE:HG12	44:EE:422:ARG:NH1	2.15	0.56
44:EE:208:ALA:CB	44:EE:304:LYS:HE3	2.35	0.56
45:EF:97:ALA:HA	45:EF:103:LYS:CD	2.33	0.56
44:EG:223:THR:HG23	44:EG:225:THR:H	1.69	0.56
45:EH:256:ASN:HD22	44:EI:181:VAL:CG1	2.17	0.56
44:EI:184:PRO:O	44:EI:188:ILE:HG12	2.05	0.56
44:FA:70:LEU:HB3	44:FA:97:GLU:O	2.06	0.56
45:FB:138:SER:HA	45:FB:169:VAL:HB	1.87	0.56
45:FB:306:ARG:HG2	45:FB:340:TYR:CZ	2.41	0.56
44:FC:14:ILE:HD13	44:FC:74:VAL:HG23	1.87	0.56
45:FJ:21:TRP:CE3	45:FJ:61:PRO:HB3	2.41	0.56
45:FJ:266:PHE:CD1	45:FJ:370:ASN:HB2	2.40	0.56
45:FL:171:PRO:HG3	45:FL:181:GLU:HG2	1.86	0.56
44:FM:394:LYS:HD2	45:FN:346:PRO:HG2	1.87	0.56
44:FM:404:PHE:CZ	45:FN:259:PRO:HA	2.40	0.56
45:FN:253:LEU:HD12	45:FN:350:LYS:NZ	2.20	0.56
44:GA:136:LEU:HD23	44:GA:167:LEU:HB2	1.88	0.56
45:GB:349:ILE:HG13	45:GB:349:ILE:O	2.05	0.56
45:GD:375:GLN:OE1	45:GD:423:GLN:HB3	2.04	0.56
44:GE:384:ILE:O	44:GE:387:VAL:HG22	2.04	0.56
45:GF:19:LYS:HG2	45:GF:227:HIS:N	2.21	0.56
45:GF:368:VAL:HG13	45:GF:368:VAL:O	2.06	0.56
45:GH:266:PHE:CD1	45:GH:370:ASN:HB2	2.39	0.56
45:GH:268:ILE:O	45:GH:300:MET:HG2	2.05	0.56
44:GK:326:LYS:HE2	45:GN:220:PRO:HD2	1.88	0.56
45:GL:143:THR:HG23	45:GL:144:GLY:N	2.21	0.56
44:GM:179:THR:HG23	45:GN:351:SER:HB2	1.87	0.56
44:GM:227:LEU:O	44:GM:231:ILE:HG13	2.05	0.56
44:GM:394:LYS:CG	44:GM:397:LEU:HD12	2.36	0.56
44:HA:115:VAL:HG22	44:HA:119:LEU:CD2	2.36	0.56
44:HA:270:SER:O	44:HA:302:MET:HG2	2.05	0.56
45:HB:101:TRP:HB2	45:HB:184:ASN:HB3	1.87	0.56
44:HE:88:HIS:ND1	44:HE:90:GLU:HG2	2.21	0.56
44:HG:13:GLY:CA	44:HG:16:VAL:HG12	2.35	0.56
44:HG:215:ARG:HH12	44:HG:299:ALA:CB	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:162:ARG:HG3	45:HH:163:ILE:N	2.20	0.56
44:HI:174:SER:CB	44:HI:207:GLU:HB2	2.36	0.56
44:HI:208:ALA:O	44:HI:212:ILE:HG12	2.05	0.56
45:HL:152:ILE:HA	45:HL:155:VAL:CG2	2.35	0.56
45:HL:383:GLU:HA	45:HL:386:THR:CG2	2.35	0.56
44:HM:318:MET:O	44:HM:375:VAL:HG23	2.05	0.56
45:HN:310:TYR:CD1	45:HN:371:SER:HB2	2.40	0.56
44:IA:246:GLY:HA2	44:IA:357:TYR:CE1	2.40	0.56
45:IB:36:TYR:CD1	45:IB:44:LEU:HD11	2.40	0.56
44:IE:210:TYR:CE1	44:IE:227:LEU:HD21	2.40	0.56
45:IF:66:MET:CE	45:IF:151:LEU:HD13	2.35	0.56
44:II:260:VAL:HG23	44:II:260:VAL:O	2.05	0.56
44:IK:107:HIS:CE1	44:IK:152:LEU:HD13	2.40	0.56
45:IL:88:ASP:CG	45:IL:151:LEU:HD13	2.26	0.56
45:IL:201:VAL:HG11	45:IL:377:MET:HE3	1.86	0.56
44:IM:5:ILE:CD1	44:IM:125:LEU:HB3	2.32	0.56
44:IM:207:GLU:O	44:IM:210:TYR:HB2	2.06	0.56
45:IN:73:MET:HE1	45:IN:92:PHE:HB3	1.86	0.56
44:JA:404:PHE:CE1	45:JB:259:PRO:HB3	2.39	0.56
45:JB:68:LEU:CD1	45:JB:143:THR:HB	2.35	0.56
45:JB:103:LYS:HA	45:JB:107:THR:OG1	2.05	0.56
45:JF:10:GLY:HA2	45:JF:143:THR:OG1	2.05	0.56
45:JH:28:HIS:CE1	45:JH:47:ILE:HA	2.40	0.56
45:JJ:130:LEU:HD21	45:JJ:133:PHE:HE1	1.69	0.56
45:JJ:187:LEU:HD23	45:JJ:411:ALA:CB	2.36	0.56
45:JJ:309:ARG:NH2	45:JJ:426:GLN:O	2.38	0.56
44:JK:95:GLY:C	44:JK:96:LYS:HD2	2.26	0.56
45:JL:131:GLN:HA	45:JL:131:GLN:OE1	2.06	0.56
44:JM:88:HIS:CE1	44:KM:280:LYS:HE2	2.41	0.56
44:JM:184:PRO:O	44:JM:188:ILE:HG12	2.05	0.56
45:JN:5:VAL:HG22	45:JN:6:HIS:N	2.21	0.56
44:KA:166:LYS:NZ	44:KA:198:THR:HA	2.20	0.56
45:KB:211:CYS:CA	45:KB:215:LEU:HD12	2.35	0.56
45:KF:99:ASN:HD22	45:KF:178:THR:HG23	1.69	0.56
45:KH:127:CYS:SG	45:KH:130:LEU:N	2.79	0.56
44:KI:389:SER:HA	44:KI:392:ASP:HB3	1.86	0.56
44:KM:239:THR:HA	44:KM:242:LEU:HD12	1.87	0.56
44:KM:421:ALA:O	44:KM:425:LEU:HD23	2.04	0.56
45:KN:135:ILE:O	45:KN:166:THR:HA	2.06	0.56
44:LA:188:ILE:HD12	44:LA:425:LEU:CD1	2.30	0.56
45:LB:7:ILE:HD11	45:LB:135:ILE:CD1	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:31:ASP:OD2	45:LB:33:THR:OG1	2.23	0.56
45:LB:178:THR:HG22	45:LB:180:VAL:H	1.70	0.56
45:LB:317:PHE:CE2	45:LB:326:VAL:HG13	2.40	0.56
44:LC:236:SER:O	44:LC:240:ALA:HB2	2.05	0.56
45:LD:49:VAL:HG21	45:LD:241:ARG:CG	2.24	0.56
45:LF:12:CYS:SG	45:LF:16:ILE:HD11	2.46	0.56
45:LF:132:GLY:HA3	45:LF:163:ILE:CG2	2.36	0.56
44:LG:33:ASP:HB2	44:LG:85:GLN:OE1	2.05	0.56
45:LJ:132:GLY:HA3	45:LJ:163:ILE:CG2	2.35	0.56
45:LL:136:THR:HG22	45:LL:167:PHE:HB2	1.86	0.56
44:LM:335:ILE:HD13	44:LM:338:LYS:HE2	1.88	0.56
45:LN:156:ARG:HG3	45:LN:195:ASN:HB3	1.88	0.56
44:MA:175:PRO:HB3	44:MA:390:ARG:NE	2.21	0.56
45:MD:141:GLY:HA3	48:MD:501:GDP:O3A	2.05	0.56
44:ME:215:ARG:NH2	44:ME:299:ALA:HB1	2.20	0.56
45:MF:248:SER:CB	45:MF:252:LYS:HD2	2.36	0.56
44:MG:70:LEU:HG	44:MG:145:THR:OG1	2.04	0.56
44:MI:175:PRO:HB3	44:MI:390:ARG:HH11	1.69	0.56
44:MI:200:VAL:HG21	44:MI:256:GLN:HB3	1.88	0.56
44:MI:205:ASP:OD2	44:MI:304:LYS:HB2	2.05	0.56
44:MI:222:PRO:CD	45:MJ:324:LYS:HD3	2.35	0.56
45:MJ:65:LEU:HD22	45:MJ:90:PHE:CE1	2.41	0.56
45:MJ:169:VAL:HG13	45:MJ:202:ILE:O	2.04	0.56
45:ML:302:ALA:CB	45:ML:377:MET:HE1	2.31	0.56
45:ML:318:ARG:CG	45:ML:358:PRO:HD3	2.35	0.56
45:MN:304:ASP:OD1	45:MN:305:PRO:HD2	2.06	0.56
45:MN:362:LYS:HB3	45:MN:363:MET:SD	2.46	0.56
44:NA:20:CYS:HA	44:NA:232:ALA:HB1	1.88	0.56
44:NA:71:GLU:OE2	44:NA:73:THR:HB	2.04	0.56
44:NA:105:ARG:HA	44:NA:109:THR:HG23	1.87	0.56
45:NB:391:ARG:CD	45:NB:393:ALA:HB2	2.28	0.56
44:NC:310:GLY:N	44:NC:383:ALA:HB2	2.21	0.56
45:ND:270:PHE:HD2	45:ND:273:LEU:HD21	1.71	0.56
45:NF:146:GLY:HA2	45:NF:149:THR:HG22	1.86	0.56
45:NF:372:THR:HA	45:NF:422:TYR:OH	2.06	0.56
44:NG:406:HIS:CE1	45:NH:260:PHE:HA	2.40	0.56
45:NH:73:MET:O	45:NH:76:VAL:HG12	2.05	0.56
45:NH:109:GLY:HA2	45:NH:147:MET:HE3	1.87	0.56
45:NH:207:LEU:HB3	45:NH:225:LEU:CD1	2.24	0.56
45:NJ:200:MET:HE1	45:NJ:268:ILE:HG23	1.87	0.56
44:NK:137:VAL:HG21	44:NK:154:LEU:HD21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:137:VAL:HG12	44:NK:167:LEU:O	2.05	0.56
44:NK:311:LYS:O	44:NK:381:SER:HB2	2.05	0.56
44:NK:334:THR:O	44:NK:337:THR:OG1	2.21	0.56
45:NL:156:ARG:NH1	45:NL:197:ASP:OD2	2.37	0.56
45:NN:68:LEU:HD23	45:NN:97:ALA:N	2.21	0.56
45:NN:314:SER:N	45:NN:368:VAL:O	2.26	0.56
44:OA:294:SER:O	44:OA:300:ASN:ND2	2.31	0.56
45:OB:72:THR:O	45:OB:75:SER:OG	2.15	0.56
44:OC:324:VAL:HG12	44:OC:325:PRO:HD2	1.87	0.56
45:OD:2:ARG:O	45:OD:240:LEU:HD21	2.06	0.56
45:OD:65:LEU:HD22	45:OD:90:PHE:CE1	2.40	0.56
45:OD:130:LEU:HD22	45:OD:162:ARG:CB	2.36	0.56
45:OF:392:LYS:HA	45:OF:395:LEU:HD12	1.86	0.56
44:OG:268:MET:HG3	44:OG:380:ASN:CB	2.32	0.56
44:OG:287:SER:O	44:OG:291:ILE:HG23	2.06	0.56
45:OH:163:ILE:HA	45:OH:197:ASP:OD2	2.05	0.56
44:OI:108:TYR:HB2	44:OI:413:MET:HE3	1.88	0.56
44:OI:215:ARG:NH2	44:OI:299:ALA:O	2.38	0.56
45:OL:141:GLY:HA3	48:OL:502:GDP:PA	2.45	0.56
45:OL:313:ALA:O	45:OL:349:ILE:HA	2.06	0.56
44:OM:9:VAL:CG2	44:OM:149:LEU:HB2	2.36	0.56
45:ON:200:MET:SD	45:ON:268:ILE:HG23	2.45	0.56
44:PA:221:ARG:NE	45:PB:322:SER:HB3	2.21	0.56
45:PB:139:LEU:HD13	45:PB:168:SER:HB3	1.87	0.56
44:PC:115:VAL:HG22	44:PC:156:ARG:HD2	1.87	0.56
44:PC:286:LEU:N	44:PC:290:GLU:OE2	2.38	0.56
44:PC:340:THR:HG23	44:PC:341:ILE:HG13	1.87	0.56
44:PE:141:VAL:HG23	44:PE:147:SER:HB3	1.86	0.56
44:PE:213:CYS:O	44:PE:217:LEU:HB2	2.05	0.56
45:PF:192:LEU:HD23	45:PF:265:PHE:HZ	1.70	0.56
44:PG:172:TYR:HB3	44:PG:173:PRO:HD2	1.86	0.56
45:PH:62:ARG:HH12	45:PH:127:CYS:HB3	1.70	0.56
45:PJ:166:THR:O	45:PJ:200:MET:N	2.34	0.56
45:PJ:257:LEU:O	45:PJ:259:PRO:HD3	2.06	0.56
44:PK:109:THR:HG22	44:PK:110:ILE:HG23	1.88	0.56
45:PL:135:ILE:HG13	45:PL:152:ILE:HD11	1.86	0.56
45:PL:313:ALA:HB3	45:PL:349:ILE:CG1	2.33	0.56
44:PM:103:PHE:CE1	44:PM:148:GLY:HA2	2.41	0.56
45:PN:237:THR:HG23	45:PN:241:ARG:HE	1.71	0.56
45:PN:258:ILE:HG13	45:PN:266:PHE:CZ	2.33	0.56
44:QA:320:ARG:NH1	44:QA:360:PRO:HG3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:239:CYS:HA	45:QB:354:CYS:HB2	1.87	0.56
44:QC:148:GLY:O	44:QC:152:LEU:HD23	2.05	0.56
45:QD:84:LEU:HG	45:QD:84:LEU:O	2.05	0.56
45:QD:385:PHE:CE2	45:QD:412:GLU:HB2	2.39	0.56
45:QF:68:LEU:HD11	45:QF:147:MET:HE1	1.86	0.56
45:QF:237:THR:O	45:QF:241:ARG:HG3	2.05	0.56
45:QH:238:CYS:HB2	45:QH:318:ARG:NH2	2.20	0.56
45:QJ:237:THR:HG23	45:QJ:241:ARG:NH1	2.17	0.56
45:QL:25:SER:HG	45:QL:51:TYR:HH	1.49	0.56
45:QL:184:ASN:OD1	45:QL:185:ALA:N	2.38	0.56
44:QM:70:LEU:CB	44:QM:98:ASP:HA	2.36	0.56
44:QM:141:VAL:CG1	44:QM:173:PRO:HD3	2.35	0.56
44:RA:112:LYS:O	44:RA:115:VAL:HG12	2.04	0.56
45:RF:288:GLU:OE1	45:RF:291:GLN:NE2	2.38	0.56
45:RF:323:THR:HA	45:RF:326:VAL:CG1	2.35	0.56
44:RI:194:LEU:HD11	44:RI:267:PHE:CZ	2.39	0.56
45:RJ:374:ILE:HD12	45:RJ:378:PHE:HE2	1.70	0.56
44:RK:259:LEU:HD22	44:RK:268:MET:HE3	1.87	0.56
44:RK:267:PHE:C	44:RK:268:MET:HG3	2.26	0.56
45:RL:251:ARG:HA	45:RL:254:ALA:CB	2.35	0.56
45:RL:406:MET:HA	45:RL:409:THR:OG1	2.05	0.56
45:RN:51:TYR:CD1	45:RN:61:PRO:HA	2.40	0.56
44:SA:246:GLY:HA2	44:SA:357:TYR:CD2	2.41	0.56
45:SD:130:LEU:HD11	45:SD:133:PHE:CE1	2.41	0.56
45:SD:284:LEU:HD12	45:SD:362:LYS:CE	2.27	0.56
45:SH:5:VAL:HG22	45:SH:133:PHE:CE1	2.40	0.56
45:SH:303:ALA:O	45:SH:305:PRO:HD3	2.05	0.56
44:SI:166:LYS:N	44:SI:199:ASP:OD2	2.36	0.56
45:SJ:86:ARG:CZ	45:SJ:87:PRO:HD2	2.35	0.56
44:SK:152:LEU:O	44:SK:155:GLU:HB2	2.05	0.56
45:SL:28:HIS:NE2	45:SL:241:ARG:HD2	2.21	0.56
45:SL:200:MET:HA	45:SL:200:MET:HE3	1.86	0.56
45:SL:296:ALA:HB2	45:SL:306:ARG:HH22	1.69	0.56
44:SM:212:ILE:HG23	44:SM:216:ASN:OD1	2.06	0.56
45:SN:66:MET:HG3	45:SN:147:MET:CE	2.35	0.56
44:TA:84:ARG:HD2	44:TA:84:ARG:O	2.05	0.56
45:TB:143:THR:O	45:TB:147:MET:HG2	2.06	0.56
45:TB:253:LEU:O	45:TB:257:LEU:HD13	2.05	0.56
45:TD:68:LEU:HD21	45:TD:147:MET:CE	2.36	0.56
45:TD:256:ASN:HB3	44:TE:181:VAL:HG22	1.86	0.56
44:TE:80:THR:C	44:TE:84:ARG:HD2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:100:ASN:ND2	45:TF:102:ALA:HB3	2.21	0.56
45:TH:1:MET:HB3	45:TH:2:ARG:O	2.05	0.56
45:TH:81:PHE:HA	45:TH:84:LEU:CD1	2.36	0.56
45:TH:116:VAL:O	45:TH:120:VAL:N	2.34	0.56
44:TI:138:PHE:CZ	44:TI:235:ILE:HG13	2.40	0.56
45:TJ:201:VAL:HG13	45:TJ:301:CYS:SG	2.46	0.56
44:UA:4:VAL:HG23	44:UA:134:GLY:O	2.06	0.56
44:UA:269:LEU:HG	44:UA:379:SER:OG	2.05	0.56
44:UA:272:TYR:HD2	44:UA:275:ILE:HD11	1.70	0.56
44:UC:189:LEU:HD23	44:UC:421:ALA:CB	2.35	0.56
44:UC:422:ARG:HH12	44:UC:426:ALA:HB2	1.71	0.56
45:UD:6:HIS:HE2	45:UD:136:THR:HG23	1.70	0.56
45:UD:255:VAL:HG11	44:UE:101:ASN:HB2	1.86	0.56
45:UF:296:ALA:HA	45:UF:305:PRO:CG	2.31	0.56
45:UF:296:ALA:CB	45:UF:305:PRO:HD2	2.34	0.56
45:UH:423:GLN:HG2	45:UH:426:GLN:OE1	2.05	0.56
44:UI:263:PRO:HD3	45:UJ:396:HIS:CG	2.40	0.56
45:UJ:54:ALA:HA	45:VJ:283:ALA:CB	2.27	0.56
45:UJ:325:GLU:O	45:UJ:328:GLU:HG2	2.05	0.56
45:UL:15:GLN:O	45:UL:18:ALA:N	2.39	0.56
45:UL:324:LYS:O	45:UL:328:GLU:HG2	2.05	0.56
44:UM:291:ILE:O	44:UM:295:ALA:N	2.24	0.56
45:UN:317:PHE:HB2	45:UN:352:SER:O	2.05	0.56
45:UN:415:MET:HA	45:UN:415:MET:CE	2.36	0.56
44:VC:99:ALA:CB	44:VC:145:THR:HB	2.35	0.56
44:VC:257:THR:HA	45:VF:397:TRP:NE1	2.21	0.56
45:VD:270:PHE:CD2	45:VD:273:LEU:HD21	2.39	0.56
44:VE:209:ILE:HG22	44:VE:302:MET:CE	2.35	0.56
44:VE:311:LYS:NZ	44:VE:342:GLN:HG3	2.21	0.56
45:VF:22:GLU:HA	45:VF:81:PHE:CD2	2.40	0.56
45:VF:299:MET:CE	45:VF:305:PRO:HG3	2.36	0.56
45:VH:136:THR:HG22	45:VH:167:PHE:HB2	1.86	0.56
45:VJ:244:GLY:HA2	45:VJ:355:ASP:OD2	2.05	0.56
45:VJ:316:LEU:HG	45:VJ:352:SER:OG	2.05	0.56
44:VK:68:LEU:CD2	44:VK:118:CYS:HB2	2.35	0.56
44:VK:71:GLU:OE1	44:VK:73:THR:OG1	2.17	0.56
45:VL:42:LEU:O	45:VL:45:GLU:HG3	2.04	0.56
44:VM:219:ILE:CG2	44:VM:222:PRO:HG3	2.36	0.56
44:WA:118:CYS:O	44:WA:122:ILE:HD12	2.06	0.56
45:WB:105:HIS:HD2	45:WB:146:GLY:O	1.89	0.56
45:WB:167:PHE:CZ	45:WB:233:MET:HG3	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:73:MET:O	45:WF:76:VAL:HG12	2.05	0.56
44:WG:54:SER:HB3	44:WG:64:ARG:CZ	2.34	0.56
44:WG:66:VAL:CG1	44:WG:122:ILE:HD11	2.26	0.56
44:WG:260:VAL:HG23	45:WJ:397:TRP:CH2	2.40	0.56
44:WI:168:GLY:O	44:WI:201:ALA:HA	2.05	0.56
44:WK:105:ARG:HD2	45:WL:251:ARG:NH2	2.18	0.56
44:WK:296:PHE:CE2	44:WK:335:ILE:HG21	2.40	0.56
44:WM:387:VAL:O	44:WM:391:LEU:HD13	2.05	0.56
5:1D:95:GLN:OE1	44:EG:365:GLY:HA3	2.05	0.56
20:1J:125:ARG:HH11	44:IE:280:LYS:CE	2.18	0.56
26:1R:300:LYS:HD2	44:CC:245:ASP:OD1	2.05	0.56
13:1T:147:PHE:CD1	45:MF:106:TYR:HB3	2.41	0.56
10:2N:8:ARG:HH12	45:IB:52:ASN:HB3	1.68	0.56
26:2R:15:GLN:HB2	45:MJ:221:THR:HG21	1.86	0.56
13:3T:97:ARG:HH12	44:MK:416:GLY:HA3	1.67	0.56
11:5Q:61:ALA:HB3	11:5Q:62:PRO:CD	2.35	0.56
35:5R:104:VAL:HG13	35:5R:105:GLU:N	2.20	0.56
35:5R:254:LYS:HD2	35:5R:355:TYR:OH	2.04	0.56
35:7R:550:VAL:HA	35:7R:553:ILE:HG22	1.87	0.56
44:AE:102:ASN:ND2	44:AE:407:TRP:O	2.38	0.56
44:AI:132:LEU:HD21	44:AI:135:PHE:CE2	2.41	0.56
45:AJ:40:SER:O	45:AJ:43:GLN:HB2	2.05	0.56
44:AK:7:ILE:HD13	44:AK:66:VAL:HG12	1.87	0.56
44:AK:320:ARG:HH12	44:AK:360:PRO:CB	2.19	0.56
44:BA:332:ILE:HG23	44:BA:351:PHE:CD2	2.41	0.56
44:BC:2:ARG:HD2	44:BC:242:LEU:O	2.04	0.56
45:BD:60:VAL:HG21	45:BD:86:ARG:HG2	1.87	0.56
44:BE:212:ILE:HD13	44:BE:215:ARG:HH21	1.71	0.56
44:BG:10:GLY:O	44:BG:14:ILE:HG13	2.06	0.56
44:BG:93:ILE:HD12	44:BG:93:ILE:H	1.70	0.56
44:BG:407:TRP:HZ3	45:BH:255:VAL:CA	2.18	0.56
44:BK:102:ASN:O	44:BK:105:ARG:N	2.38	0.56
44:BK:178:SER:OG	45:BL:347:ASN:ND2	2.39	0.56
44:BK:241:SER:HB2	44:BK:249:ASN:OD1	2.04	0.56
45:BL:34:GLY:HA3	45:BL:58:ARG:HG3	1.88	0.56
44:BM:215:ARG:NH1	44:BM:299:ALA:HB1	2.21	0.56
44:CA:68:LEU:HD21	44:CA:118:CYS:SG	2.46	0.56
44:CA:136:LEU:HD23	44:CA:167:LEU:HB2	1.88	0.56
44:CA:141:VAL:HG11	44:CA:172:TYR:CD1	2.41	0.56
44:CC:288:VAL:HA	44:CC:291:ILE:CG1	2.35	0.56
45:CF:8:GLN:NE2	45:CF:65:LEU:HG	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:156:ARG:HD3	45:CH:195:ASN:CB	2.36	0.56
45:CH:252:LYS:NZ	46:CI:501:GTP:O1G	2.32	0.56
45:CJ:309:ARG:HD3	45:CJ:339:SER:O	2.06	0.56
45:CL:114:ASP:OD1	45:CL:115:SER:N	2.37	0.56
45:CL:165:GLU:HG2	45:CL:198:GLU:HB2	1.88	0.56
45:CN:25:SER:O	45:CN:30:ILE:N	2.39	0.56
45:CN:234:SER:O	45:CN:238:CYS:N	2.38	0.56
45:CN:378:PHE:HA	45:CN:381:VAL:CG1	2.35	0.56
45:DB:121:ARG:HH21	45:DB:158:GLU:CD	2.09	0.56
45:DB:325:GLU:O	45:DB:328:GLU:HG2	2.05	0.56
44:DI:19:ALA:HA	44:DI:22:GLU:OE1	2.05	0.56
44:DI:118:CYS:SG	44:DI:153:LEU:HD21	2.45	0.56
44:DI:191:THR:HG21	44:DI:425:LEU:HD21	1.87	0.56
45:DJ:94:GLN:HA	45:DJ:94:GLN:OE1	2.06	0.56
45:DJ:178:THR:HB	45:DJ:181:GLU:CG	2.32	0.56
45:DJ:239:CYS:HB3	45:DJ:354:CYS:SG	2.45	0.56
44:DK:425:LEU:O	44:DK:429:GLU:HG3	2.05	0.56
44:DM:243:ARG:HG3	44:DM:244:PHE:CD2	2.40	0.56
45:DN:314:SER:N	45:DN:368:VAL:O	2.34	0.56
45:DN:399:THR:HA	45:DN:403:MET:O	2.06	0.56
44:EA:9:VAL:HG21	44:EA:149:LEU:HB3	1.87	0.56
44:EA:184:PRO:O	44:EA:188:ILE:HG12	2.06	0.56
44:EA:274:PRO:CG	44:EA:291:ILE:HA	2.36	0.56
45:EB:54:ALA:CA	45:FB:283:ALA:HB2	2.36	0.56
45:EB:337:ASN:HB3	45:EB:340:TYR:HD2	1.69	0.56
44:EC:261:PRO:HA	45:ED:394:PHE:CD2	2.39	0.56
45:ED:193:VAL:HA	45:ED:264:HIS:NE2	2.21	0.56
45:ED:396:HIS:O	45:ED:400:GLY:N	2.38	0.56
45:EF:42:LEU:HG	45:EF:45:GLU:OE2	2.04	0.56
45:EF:81:PHE:CA	45:EF:84:LEU:HD13	2.36	0.56
44:EG:1:MET:CG	44:EG:2:ARG:HH11	2.16	0.56
44:EI:104:ALA:HB2	44:EI:413:MET:HE2	1.86	0.56
44:EI:118:CYS:SG	44:EI:153:LEU:HD21	2.46	0.56
45:EJ:252:LYS:HG3	44:EK:101:ASN:OD1	2.05	0.56
44:EK:304:LYS:HZ1	44:EK:390:ARG:HD2	1.68	0.56
44:FA:67:PHE:C	44:FA:68:LEU:HD12	2.26	0.56
44:FA:91:GLN:HG2	44:FA:121:ARG:HD2	1.88	0.56
44:FC:4:VAL:HG21	44:FC:136:LEU:CD1	2.35	0.56
44:FC:269:LEU:HG	44:FC:379:SER:OG	2.04	0.56
44:FE:53:PHE:C	44:FE:64:ARG:HE	2.08	0.56
45:FF:92:PHE:C	45:FF:112:LEU:HD11	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FF:379:LYS:O	45:FF:382:ALA:N	2.39	0.56
44:FG:73:THR:CG2	45:FH:243:PRO:HA	2.35	0.56
45:FH:391:ARG:O	45:FH:391:ARG:HG3	2.06	0.56
44:FK:239:THR:O	44:FK:239:THR:HG22	2.05	0.56
45:FL:137:HIS:O	45:FL:168:SER:HA	2.06	0.56
44:FM:23:LEU:HD21	44:FM:236:SER:HB2	1.88	0.56
44:GC:67:PHE:C	44:GC:68:LEU:HD12	2.26	0.56
45:GF:122:LYS:NZ	45:GF:123:GLU:OE2	2.32	0.56
45:GF:312:THR:HA	45:GF:342:VAL:HG23	1.87	0.56
44:GG:66:VAL:HG21	44:GG:122:ILE:CD1	2.31	0.56
44:GG:271:SER:OG	44:GG:377:MET:SD	2.60	0.56
45:GH:65:LEU:HD11	45:GH:85:PHE:CE1	2.41	0.56
45:GJ:235:GLY:HA3	45:GJ:366:THR:HG21	1.86	0.56
44:GK:51:THR:HG22	44:GK:52:PHE:HD1	1.71	0.56
44:GK:262:TYR:CE2	44:GK:435:VAL:HG11	2.41	0.56
44:GK:350:GLY:O	45:GN:179:VAL:HG12	2.04	0.56
45:GL:86:ARG:CG	45:HL:281:TYR:HB3	2.36	0.56
45:GN:378:PHE:HB3	45:GN:419:VAL:CG2	2.36	0.56
44:HA:18:ASN:O	44:HA:22:GLU:OE1	2.23	0.56
44:HA:318:MET:CE	44:HA:352:LYS:HZ2	2.19	0.56
45:HB:51:TYR:CE1	45:HB:61:PRO:HD3	2.41	0.56
45:HD:173:PRO:CD	45:HD:380:ARG:HD3	2.36	0.56
45:HF:114:ASP:OD1	45:HF:115:SER:N	2.37	0.56
45:HL:178:THR:CG2	45:HL:180:VAL:HG12	2.35	0.56
45:HL:246:LEU:HD13	45:HL:353:ILE:CD1	2.33	0.56
45:HL:257:LEU:O	45:HL:259:PRO:HD3	2.06	0.56
45:HN:86:ARG:NH1	45:IN:278:SER:HA	2.19	0.56
45:HN:192:LEU:CD1	45:HN:196:ALA:HB2	2.36	0.56
44:IA:311:LYS:H	44:IA:382:THR:HG1	1.50	0.56
44:IE:81:GLY:O	44:IE:84:ARG:HG2	2.05	0.56
45:IF:7:ILE:HG13	45:IF:135:ILE:HD12	1.87	0.56
45:IH:101:TRP:NE1	45:IH:146:GLY:HA2	2.21	0.56
45:IJ:73:MET:HA	45:IJ:73:MET:CE	2.35	0.56
45:IJ:262:ARG:HB3	45:IJ:262:ARG:HH11	1.68	0.56
45:IL:316:LEU:HG	45:IL:352:SER:HB2	1.88	0.56
44:IM:67:PHE:C	44:IM:68:LEU:HD12	2.26	0.56
44:IM:199:ASP:O	44:IM:266:HIS:HB2	2.06	0.56
44:JA:272:TYR:HD2	44:JA:275:ILE:HD11	1.70	0.56
45:JB:8:GLN:NE2	45:JB:17:GLY:HA3	2.14	0.56
45:JB:294:PHE:CE2	45:JB:333:VAL:HG21	2.41	0.56
44:JC:10:GLY:HA2	44:JC:145:THR:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:376:GLU:HA	45:JD:379:LYS:CD	2.35	0.56
44:JG:96:LYS:HE3	45:JH:1:MET:HE2	1.87	0.56
45:JJ:11:GLN:HG2	45:JJ:12:CYS:N	2.21	0.56
44:JM:211:ASP:OD1	44:JM:212:ILE:N	2.39	0.56
45:JN:42:LEU:HD22	45:JN:45:GLU:OE2	2.06	0.56
44:KA:1:MET:HE1	44:KA:131:GLY:HA3	1.88	0.56
44:KA:307:PRO:HA	44:KA:383:ALA:HB2	1.88	0.56
45:KB:7:ILE:HB	45:KB:135:ILE:CG1	2.35	0.56
45:KB:20:PHE:HA	45:KB:230:SER:OG	2.04	0.56
44:KC:335:ILE:HA	44:KC:338:LYS:HE3	1.88	0.56
45:KF:265:PHE:HB3	45:KF:374:ILE:CD1	2.34	0.56
45:KJ:167:PHE:HE1	45:KJ:200:MET:HE2	1.71	0.56
45:KN:40:SER:O	45:KN:43:GLN:HB2	2.05	0.56
45:KN:54:ALA:HB3	45:KN:58:ARG:O	2.06	0.56
45:KN:190:HIS:HB2	45:KN:415:MET:CE	2.35	0.56
45:KN:424:GLN:OE1	45:KN:424:GLN:N	2.38	0.56
44:LA:104:ALA:O	44:LA:108:TYR:N	2.39	0.56
44:LG:88:HIS:O	44:LG:91:GLN:HG2	2.06	0.56
44:LG:268:MET:HG3	44:LG:378:ILE:HG22	1.88	0.56
44:LG:407:TRP:CE3	45:LH:255:VAL:HG22	2.41	0.56
44:LI:185:TYR:OH	44:LI:398:MET:HB3	2.05	0.56
45:LL:245:GLN:HB2	45:LL:353:ILE:HB	1.88	0.56
45:LL:263:LEU:HG	45:LL:422:TYR:CE1	2.39	0.56
44:LM:119:LEU:HD11	44:LM:156:ARG:HG3	1.86	0.56
45:LN:49:VAL:CG1	45:LN:241:ARG:HD3	2.36	0.56
45:LN:151:LEU:O	45:LN:155:VAL:HG13	2.06	0.56
45:MD:130:LEU:HD21	45:MD:133:PHE:CE1	2.39	0.56
45:MD:374:ILE:HG12	45:MD:422:TYR:HH	1.70	0.56
44:ME:70:LEU:HD13	44:ME:110:ILE:CD1	2.36	0.56
44:ME:276:ILE:HG12	44:ME:281:ALA:HA	1.88	0.56
45:MF:127:CYS:SG	45:MF:130:LEU:HB2	2.46	0.56
44:MG:22:GLU:HG3	44:MG:83:TYR:OH	2.06	0.56
44:MG:268:MET:HB2	44:MG:379:SER:O	2.06	0.56
44:MI:288:VAL:HG23	44:MI:291:ILE:HD11	1.86	0.56
44:MK:291:ILE:HG13	44:MK:292:THR:N	2.19	0.56
45:MN:192:LEU:HD21	45:MN:199:CYS:SG	2.46	0.56
44:NC:288:VAL:CA	44:NC:291:ILE:HG12	2.34	0.56
45:ND:117:LEU:HD13	45:ND:154:LYS:NZ	2.21	0.56
44:NE:172:TYR:HB3	44:NE:173:PRO:HD2	1.88	0.56
44:NE:312:TYR:O	44:NE:344:VAL:N	2.37	0.56
45:NF:300:MET:O	45:NF:300:MET:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:309:ARG:HH22	45:NF:342:VAL:HA	1.71	0.56
45:NH:113:ILE:HD13	45:NH:154:LYS:NZ	2.20	0.56
45:NH:205:GLU:O	45:NH:209:ASP:N	2.27	0.56
44:NI:149:LEU:O	44:NI:153:LEU:HG	2.05	0.56
44:NK:11:GLN:NE2	45:NL:245:GLN:O	2.38	0.56
44:NK:315:CYS:SG	44:NK:379:SER:HB3	2.46	0.56
44:NM:195:LEU:HD11	44:NM:264:ARG:HE	1.70	0.56
44:NM:287:SER:N	44:NM:290:GLU:OE2	2.39	0.56
44:NM:363:VAL:CG2	44:NM:364:PRO:HD2	2.36	0.56
45:NN:120:VAL:HG13	45:NN:121:ARG:HD3	1.87	0.56
45:NN:262:ARG:HD3	45:NN:421:GLU:OE2	2.05	0.56
44:OA:261:PRO:HA	45:OD:394:PHE:CD1	2.41	0.56
44:OA:320:ARG:N	44:OA:374:ALA:O	2.26	0.56
45:OB:189:VAL:HB	45:OB:415:MET:CE	2.36	0.56
44:OC:14:ILE:CD1	44:OC:75:ILE:HD11	2.35	0.56
45:OD:48:ASN:HA	45:OD:51:TYR:O	2.06	0.56
44:OE:223:THR:HG22	45:OF:322:SER:CA	2.26	0.56
45:OH:178:THR:HG22	45:OH:180:VAL:H	1.70	0.56
45:OJ:187:LEU:HD11	45:OJ:408:PHE:CE1	2.41	0.56
45:OJ:269:GLY:HA2	45:OJ:300:MET:SD	2.46	0.56
44:OK:103:PHE:CE1	44:OK:148:GLY:HA2	2.40	0.56
45:OL:22:GLU:HG2	45:OL:81:PHE:HD1	1.71	0.56
44:OM:124:LYS:O	44:OM:127:ASP:HB2	2.05	0.56
44:OM:154:LEU:O	44:OM:158:SER:N	2.35	0.56
45:ON:316:LEU:HA	45:ON:352:SER:OG	2.05	0.56
44:PC:71:GLU:CD	44:PC:73:THR:H	2.09	0.56
44:PC:208:ALA:HB3	44:PC:302:MET:O	2.04	0.56
45:PD:203:ASP:HB3	45:PD:205:GLU:OE2	2.04	0.56
44:PE:7:ILE:HB	44:PE:137:VAL:CG2	2.36	0.56
44:PE:13:GLY:O	44:PE:16:VAL:HG22	2.06	0.56
44:PE:100:ALA:HB2	45:PF:251:ARG:HB3	1.87	0.56
45:PF:16:ILE:CD1	45:PF:229:VAL:HG11	2.35	0.56
45:PF:20:PHE:HZ	45:PF:27:GLU:HB3	1.71	0.56
45:PF:248:SER:CB	45:PF:252:LYS:HD3	2.36	0.56
45:PH:322:SER:O	45:PH:326:VAL:HG23	2.06	0.56
44:PI:215:ARG:NH2	44:PI:300:ASN:OD1	2.39	0.56
44:PI:315:CYS:HA	44:PI:379:SER:CB	2.35	0.56
45:PJ:114:ASP:OD1	45:PJ:115:SER:N	2.37	0.56
44:PK:5:ILE:HG12	44:PK:64:ARG:CD	2.36	0.56
45:PN:48:ASN:O	45:PN:62:ARG:NH2	2.39	0.56
44:QA:267:PHE:HB2	44:QA:432:TYR:OH	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:167:PHE:CE1	45:QB:200:MET:HG2	2.40	0.56
45:QB:381:VAL:O	45:QB:385:PHE:N	2.36	0.56
44:QC:54:SER:OG	44:QC:62:VAL:HG13	2.06	0.56
44:QC:223:THR:CG2	44:QC:225:THR:HG23	2.34	0.56
44:QE:66:VAL:HG21	44:QE:122:ILE:HD11	1.88	0.56
45:QF:42:LEU:HD22	45:QF:356:ILE:CD1	2.31	0.56
44:QI:4:VAL:HG23	44:QI:134:GLY:O	2.05	0.56
44:QI:135:PHE:CB	44:QI:166:LYS:HG2	2.20	0.56
44:QM:88:HIS:HA	44:RM:280:LYS:HZ2	1.70	0.56
44:QM:115:VAL:HG23	44:QM:153:LEU:CD2	2.36	0.56
45:QN:5:VAL:CG1	45:QN:123:GLU:HG2	2.36	0.56
44:RA:60:LYS:HD3	44:SA:283:HIS:ND1	2.20	0.56
44:RC:3:GLU:O	44:RC:132:LEU:HA	2.06	0.56
44:RC:333:ALA:HA	44:RC:336:LYS:NZ	2.21	0.56
45:RD:139:LEU:HA	45:RD:145:SER:HB3	1.86	0.56
45:RD:269:GLY:HA2	45:RD:300:MET:SD	2.46	0.56
45:RD:271:ALA:HB1	45:RD:272:PRO:HA	1.88	0.56
45:RF:20:PHE:CZ	45:RF:233:MET:HE3	2.41	0.56
45:RF:212:PHE:O	45:RF:216:LYS:HA	2.06	0.56
44:RI:258:ASN:ND2	45:RJ:178:THR:HG23	2.17	0.56
44:RM:217:LEU:HB3	44:RM:219:ILE:HG13	1.86	0.56
44:SA:11:GLN:HG3	44:SA:74:VAL:CG1	2.36	0.56
45:SB:91:VAL:HG21	45:SB:116:VAL:CB	2.36	0.56
45:SB:285:THR:CB	45:SB:287:PRO:HD2	2.35	0.56
44:SC:276:ILE:HD12	44:SC:284:GLU:OE2	2.05	0.56
44:SC:428:LEU:HG	44:SC:432:TYR:CE2	2.41	0.56
44:SE:240:ALA:HB1	44:SE:356:ASN:ND2	2.16	0.56
44:SG:185:TYR:OH	44:SG:398:MET:HB3	2.05	0.56
44:SG:254:GLU:HA	44:SG:257:THR:CG2	2.34	0.56
44:SG:268:MET:HB2	44:SG:379:SER:O	2.04	0.56
45:SH:324:LYS:HD3	44:SI:222:PRO:CG	2.35	0.56
44:SI:363:VAL:CG2	44:SI:364:PRO:HD2	2.35	0.56
44:SK:212:ILE:HD13	44:SK:215:ARG:HH22	1.71	0.56
44:SK:319:TYR:N	44:SK:354:GLY:O	2.37	0.56
44:SK:339:ARG:HH21	44:SK:342:GLN:HB3	1.71	0.56
45:SL:141:GLY:HA3	48:SL:501:GDP:O2B	2.05	0.56
45:SL:217:LEU:HD12	45:SL:217:LEU:O	2.06	0.56
44:SM:248:LEU:HB3	44:SM:355:ILE:HB	1.87	0.56
44:SM:311:LYS:O	44:SM:382:THR:HG23	2.05	0.56
44:SM:408:TYR:HB3	44:SM:413:MET:HE2	1.86	0.56
45:TB:233:MET:O	45:TB:236:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:36:MET:HG3	44:TE:61:HIS:CE1	2.41	0.56
44:TE:48:ALA:O	44:TE:243:ARG:HB2	2.05	0.56
44:TE:319:TYR:HA	44:TE:375:VAL:CB	2.36	0.56
44:TE:361:THR:HG23	44:TE:361:THR:O	2.05	0.56
45:TF:378:PHE:HA	45:TF:381:VAL:CG1	2.34	0.56
45:TH:116:VAL:HA	45:TH:119:VAL:HG12	1.87	0.56
44:TI:63:PRO:HD2	44:TI:86:LEU:O	2.04	0.56
45:TJ:3:GLU:HA	45:TJ:49:VAL:CG1	2.19	0.56
44:TK:91:GLN:CB	44:TK:121:ARG:HD2	2.36	0.56
45:TL:134:GLN:HG3	45:TL:165:GLU:HB2	1.87	0.56
44:TM:316:SER:N	44:TM:378:ILE:O	2.29	0.56
44:UA:7:ILE:O	44:UA:137:VAL:HA	2.06	0.56
45:UB:102:ALA:HB2	45:UB:398:TYR:HD1	1.69	0.56
45:UB:357:PRO:HB3	45:UB:362:LYS:O	2.06	0.56
44:UC:185:TYR:CE1	44:UC:398:MET:HG3	2.41	0.56
44:UC:189:LEU:HD23	44:UC:421:ALA:HB2	1.88	0.56
45:UD:286:VAL:CB	45:UD:329:GLN:HE22	2.17	0.56
45:UF:281:TYR:CB	45:UF:282:ARG:HH21	2.19	0.56
45:UH:6:HIS:HB3	45:UH:63:ALA:CB	2.29	0.56
44:UI:71:GLU:CD	44:UI:73:THR:H	2.07	0.56
44:UI:310:GLY:CA	44:UI:383:ALA:HB2	2.36	0.56
45:UJ:2:ARG:HH12	45:UJ:240:LEU:HD21	1.70	0.56
44:UM:84:ARG:HE	44:UM:85:GLN:NE2	2.04	0.56
44:UM:157:LEU:O	44:UM:164:LYS:NZ	2.39	0.56
44:UM:217:LEU:HD11	44:UM:275:ILE:CG2	2.36	0.56
44:UM:291:ILE:HD12	44:UM:375:VAL:HB	1.88	0.56
44:VA:119:LEU:HD21	44:VA:156:ARG:CD	2.34	0.56
44:VA:416:GLY:O	44:VA:419:SER:OG	2.08	0.56
45:VB:267:MET:CE	45:VB:374:ILE:HG22	2.36	0.56
45:VD:327:ASP:O	45:VD:331:LEU:N	2.35	0.56
45:VF:230:SER:O	45:VF:233:MET:HB2	2.05	0.56
45:VF:327:ASP:O	45:VF:330:MET:N	2.38	0.56
44:VG:174:SER:OG	44:VG:207:GLU:HB2	2.06	0.56
45:VH:86:ARG:CZ	45:VH:87:PRO:HD2	2.35	0.56
45:VH:165:GLU:OE1	45:VH:236:VAL:HG21	2.06	0.56
45:VH:262:ARG:C	45:VH:263:LEU:HD12	2.26	0.56
44:VI:258:ASN:ND2	45:VL:178:THR:HG23	2.20	0.56
44:VI:316:SER:CB	44:VI:352:LYS:HB3	2.33	0.56
45:VJ:103:LYS:HA	45:VJ:107:THR:OG1	2.06	0.56
45:VJ:112:LEU:HD23	45:VJ:112:LEU:O	2.05	0.56
45:VJ:206:ALA:O	45:VJ:209:ASP:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:334:GLN:O	45:VJ:334:GLN:HG2	2.05	0.56
44:VK:191:THR:HA	44:VK:194:LEU:HG	1.86	0.56
44:VM:140:SER:HB2	46:VM:501:GTP:H1'	1.87	0.56
44:VM:167:LEU:HD11	44:VM:252:ILE:CG2	2.36	0.56
44:VM:221:ARG:N	44:VM:222:PRO:HD3	2.20	0.56
44:WA:261:PRO:HA	45:WD:394:PHE:CZ	2.41	0.56
44:WC:417:GLU:O	44:WC:420:GLU:HG2	2.05	0.56
44:WE:402:ARG:HB3	44:WE:405:VAL:HG21	1.88	0.56
45:WF:91:VAL:HG11	45:WF:116:VAL:HA	1.88	0.56
44:WG:73:THR:HA	45:WH:46:ARG:HH21	1.68	0.56
45:WJ:304:ASP:OD1	45:WJ:305:PRO:HD2	2.06	0.56
44:WM:286:LEU:HD13	44:WM:290:GLU:OE2	2.06	0.56
1:6H:172:SER:O	45:FB:320:ARG:CZ	2.54	0.56
2:0A:138:TRP:HH2	44:AA:80:THR:HG23	1.71	0.56
4:1C:75:LEU:CD1	45:EL:362:LYS:HG2	2.35	0.56
8:1G:180:PRO:HG2	45:LD:174:LYS:HE2	1.86	0.56
19:1I:218:THR:HB	44:LE:322:ASP:HB3	1.88	0.56
25:1P:248:LYS:CE	45:SF:56:GLY:HA3	2.31	0.56
27:1W:189:ARG:CD	44:LA:45:GLY:H	2.19	0.56
2:2A:67:PRO:HB3	45:MJ:53:GLU:HG3	1.88	0.56
26:2R:62:MET:HB2	45:MH:41:ASP:CG	2.26	0.56
15:2V:161:TYR:OH	44:MG:433:GLU:HB2	2.05	0.56
2:3A:33:GLN:NE2	45:MN:357:PRO:HG2	2.19	0.56
6:3E:61:LYS:HG3	45:DN:37:HIS:HB3	1.87	0.56
26:3R:29:LYS:CE	44:MK:47:ASP:HB3	2.36	0.56
15:3V:24:ARG:HG2	44:MA:430:LYS:HD2	1.87	0.56
35:4R:144:PHE:HE2	45:AH:83:GLN:HE22	1.48	0.56
37:5D:19:ARG:CB	45:KN:418:LEU:HB2	2.36	0.56
37:5D:26:LYS:NZ	45:KN:395:LEU:HA	2.21	0.56
37:5D:74:SER:HB2	45:NN:362:LYS:HD3	1.88	0.56
37:5D:114:PRO:HD3	44:NM:285:GLN:O	2.06	0.56
38:5E:210:THR:HG22	44:LC:431:ASP:OD1	2.05	0.56
38:5F:164:LYS:H	38:5F:165:PRO:HD2	1.70	0.56
38:5G:41:THR:HB	44:OG:372:MET:HE3	1.86	0.56
38:5G:123:ARG:CD	44:OI:370:LYS:HD3	2.19	0.56
39:5J:156:ASN:O	39:5J:160:VAL:HG23	2.05	0.56
11:5Q:92:GLN:O	11:5Q:152:LEU:HB2	2.05	0.56
35:5R:287:ILE:CD1	35:5R:304:LEU:HD22	2.34	0.56
35:5R:291:LYS:HD3	35:5R:292:ARG:N	2.20	0.56
40:6F:85:THR:HG23	45:JF:355:ASP:OD2	2.04	0.56
41:6G:114:LYS:HD3	45:VJ:339:SER:OG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6G:161:THR:HG23	45:VH:306:ARG:HD2	1.87	0.56
41:6G:265:LEU:HG	44:VA:339:ARG:HD2	1.87	0.56
11:6Q:42:ILE:HD11	11:6Q:184:PHE:CE2	2.41	0.56
42:8L:383:UNK:O	42:8L:386:UNK:N	2.38	0.56
43:8R:203:UNK:O	43:8R:204:UNK:C	2.53	0.56
44:AA:17:GLY:HA2	44:AA:20:CYS:SG	2.45	0.56
44:AA:200:VAL:HG13	44:AA:268:MET:CE	2.36	0.56
45:AB:257:LEU:HB3	45:AB:266:PHE:CZ	2.41	0.56
44:AC:177:VAL:HG22	45:AD:331:LEU:HD22	1.86	0.56
45:AD:334:GLN:HG3	45:AD:341:PHE:CD2	2.41	0.56
45:AD:345:ILE:O	45:AD:348:ASN:HB3	2.05	0.56
44:AE:229:ARG:NE	44:AE:363:VAL:HG11	2.21	0.56
44:AG:7:ILE:HD11	44:AG:122:ILE:HD11	1.88	0.56
45:AH:395:LEU:HD11	45:AH:408:PHE:CE2	2.41	0.56
45:AL:170:VAL:HG13	45:AL:171:PRO:HD2	1.87	0.56
45:AN:231:ALA:HB1	45:AN:270:PHE:CE2	2.41	0.56
44:BA:35:GLN:OE1	44:BA:59:GLY:HA3	2.06	0.56
44:BA:89:PRO:HD3	44:CA:283:HIS:ND1	2.21	0.56
45:BD:49:VAL:HG11	45:BD:240:LEU:HD22	1.88	0.56
45:BH:72:THR:HG23	45:BH:73:MET:SD	2.46	0.56
45:BJ:86:ARG:NH1	45:BJ:89:ASN:HA	2.21	0.56
44:BK:222:PRO:CG	45:BL:324:LYS:HD3	2.36	0.56
44:BK:276:ILE:HG23	44:BK:281:ALA:CB	2.34	0.56
45:BN:238:CYS:HB2	45:BN:318:ARG:CZ	2.35	0.56
44:CA:89:PRO:HD3	44:DA:280:LYS:HZ3	1.70	0.56
45:CB:9:GLY:CA	45:CB:66:MET:H	2.18	0.56
44:CC:70:LEU:HB3	44:CC:97:GLU:O	2.05	0.56
44:CC:288:VAL:CA	44:CC:291:ILE:HG12	2.36	0.56
45:CD:143:THR:HG1	45:CD:144:GLY:H	1.52	0.56
44:CG:257:THR:HA	45:CH:397:TRP:CZ2	2.40	0.56
44:CI:192:HIS:ND1	44:CI:424:ASP:OD2	2.39	0.56
45:CJ:5:VAL:CG1	45:CJ:62:ARG:HH22	2.18	0.56
45:CJ:12:CYS:SG	45:CJ:138:SER:HB2	2.46	0.56
45:CL:360:GLY:C	45:CL:361:LEU:HD22	2.25	0.56
44:CM:204:LEU:HD22	44:CM:231:ILE:CD1	2.36	0.56
45:DD:258:ILE:HD13	44:DE:407:TRP:CH2	2.35	0.56
45:DF:136:THR:HA	45:DF:167:PHE:O	2.06	0.56
45:DF:287:PRO:O	45:DF:290:THR:HG22	2.06	0.56
44:DG:169:PHE:HZ	44:DG:238:LEU:HD13	1.71	0.56
45:DH:207:LEU:HB3	45:DH:225:LEU:HD22	1.88	0.56
44:DI:295:ALA:HB1	44:DI:377:MET:CE	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:89:PRO:CB	44:EK:280:LYS:HG3	2.36	0.56
44:DK:263:PRO:HD3	45:DL:396:HIS:CE1	2.41	0.56
45:EB:203:ASP:HB2	45:EB:206:ALA:HB3	1.87	0.56
45:EB:272:PRO:HG3	45:EB:289:LEU:HD23	1.87	0.56
45:EB:395:LEU:CD1	45:EB:399:THR:HG23	2.35	0.56
45:ED:177:ASP:N	45:ED:181:GLU:OE2	2.38	0.56
45:ED:377:MET:CA	45:ED:380:ARG:HG2	2.33	0.56
44:EE:183:GLU:N	44:EE:184:PRO:HD2	2.21	0.56
44:EE:242:LEU:HD21	44:EE:251:ASP:HA	1.86	0.56
45:EF:68:LEU:HD21	45:EF:147:MET:SD	2.46	0.56
44:EG:174:SER:HB3	44:EG:207:GLU:CD	2.26	0.56
45:EH:30:ILE:HG13	45:EH:30:ILE:O	2.05	0.56
45:EJ:31:ASP:HB3	45:EJ:32:PRO:HD2	1.87	0.56
45:EJ:86:ARG:HH21	45:EJ:87:PRO:CG	2.19	0.56
45:EJ:113:ILE:CG2	45:EJ:150:LEU:HD22	2.32	0.56
45:EJ:304:ASP:OD1	45:EJ:306:ARG:HG2	2.06	0.56
45:EJ:316:LEU:HG	45:EJ:352:SER:OG	2.06	0.56
44:EK:36:MET:HA	44:EK:36:MET:CE	2.36	0.56
45:EL:272:PRO:HD2	45:EL:364:ALA:CB	2.36	0.56
45:EL:342:VAL:CG1	45:EL:345:ILE:HG22	2.34	0.56
44:EM:311:LYS:H	44:EM:382:THR:HG1	1.49	0.56
44:EM:430:LYS:O	44:EM:434:GLU:N	2.26	0.56
45:EN:136:THR:CG2	45:EN:167:PHE:HB2	2.33	0.56
45:EN:312:THR:HA	45:EN:348:ASN:CB	2.32	0.56
44:FA:115:VAL:O	44:FA:119:LEU:HD23	2.05	0.56
44:FA:181:VAL:O	44:FA:184:PRO:HD2	2.05	0.56
45:FB:299:MET:HE1	45:FB:301:CYS:CB	2.34	0.56
44:FE:179:THR:HG21	46:FE:501:GTP:H3'	1.86	0.56
45:FF:22:GLU:HG2	45:FF:81:PHE:CB	2.36	0.56
45:FF:242:PHE:CE2	45:FF:356:ILE:HG21	2.41	0.56
44:FG:18:ASN:O	44:FG:22:GLU:OE1	2.24	0.56
45:FH:130:LEU:HD22	45:FH:162:ARG:HD3	1.87	0.56
45:FJ:97:ALA:HB3	45:FJ:143:THR:CA	2.36	0.56
45:FJ:139:LEU:CD2	45:FJ:168:SER:HB3	2.36	0.56
44:FK:28:HIS:CE1	44:FK:49:PHE:HA	2.39	0.56
44:FK:93:ILE:HG12	44:FK:117:LEU:HB3	1.88	0.56
45:FN:209:ASP:OD1	45:FN:213:ARG:HD3	2.06	0.56
45:FN:316:LEU:O	45:FN:365:VAL:HG13	2.06	0.56
45:GB:49:VAL:HG11	45:GB:240:LEU:CD1	2.35	0.56
45:GB:86:ARG:HD3	45:HB:281:TYR:HD2	1.71	0.56
45:GB:134:GLN:HE22	45:GB:233:MET:HE1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:399:THR:HA	45:GB:403:MET:HE3	1.87	0.56
45:GB:420:SER:O	45:GB:423:GLN:HG3	2.06	0.56
44:GE:228:ASN:O	44:GE:231:ILE:HG22	2.05	0.56
45:GF:51:TYR:CE1	45:GF:61:PRO:HG3	2.38	0.56
45:GF:156:ARG:NH1	45:GF:164:MET:HG3	2.13	0.56
44:GG:100:ALA:HB1	45:GH:252:LYS:CA	2.35	0.56
44:GG:394:LYS:HE3	45:GH:346:PRO:CB	2.35	0.56
45:GH:263:LEU:HG	45:GH:422:TYR:CE1	2.41	0.56
45:GH:292:GLN:OE1	45:GH:298:ASN:HB2	2.05	0.56
44:GI:84:ARG:NH1	44:GI:85:GLN:OE1	2.37	0.56
44:GI:426:ALA:O	44:GI:430:LYS:N	2.23	0.56
44:GK:182:VAL:HG12	44:GK:404:PHE:CD2	2.40	0.56
44:GK:313:MET:HE3	44:GK:382:THR:HG22	1.88	0.56
45:GL:20:PHE:HA	45:GL:23:VAL:CG1	2.36	0.56
45:GL:60:VAL:HG21	45:GL:86:ARG:HB2	1.86	0.56
44:GM:88:HIS:O	44:GM:91:GLN:HG2	2.06	0.56
44:GM:202:VAL:HG13	44:GM:269:LEU:HA	1.87	0.56
44:GM:269:LEU:HD23	44:GM:379:SER:O	2.06	0.56
45:GN:66:MET:CE	45:GN:151:LEU:HD13	2.36	0.56
45:HB:187:LEU:HD21	45:HB:408:PHE:HD1	1.71	0.56
45:HB:272:PRO:HD3	45:HB:289:LEU:HD21	1.87	0.56
44:HC:252:ILE:HD13	44:HC:255:PHE:CE2	2.40	0.56
45:HD:269:GLY:CA	45:HD:300:MET:HE1	2.35	0.56
44:HE:7:ILE:HD11	44:HE:122:ILE:HD11	1.88	0.56
44:HE:417:GLU:O	44:HE:420:GLU:HG2	2.05	0.56
44:HI:66:VAL:HG11	44:HI:122:ILE:HD11	1.88	0.56
45:HJ:208:TYR:HA	45:HJ:211:CYS:SG	2.46	0.56
44:HK:10:GLY:HA2	44:HK:145:THR:HG23	1.88	0.56
44:HK:332:ILE:O	44:HK:336:LYS:HG3	2.06	0.56
45:HL:6:HIS:NE2	45:HL:8:GLN:HB3	2.21	0.56
45:HN:181:GLU:N	45:HN:182:PRO:HD2	2.20	0.56
44:IA:60:LYS:NZ	44:IA:86:LEU:HA	2.20	0.56
44:IA:316:SER:HB3	44:IA:378:ILE:O	2.06	0.56
44:IA:340:THR:HG23	44:IA:341:ILE:HG13	1.87	0.56
45:IB:204:ASN:ND2	48:IB:501:GDP:HN22	2.03	0.56
45:IB:327:ASP:O	45:IB:330:MET:N	2.39	0.56
45:IB:331:LEU:O	45:IB:335:ASN:N	2.39	0.56
44:IC:228:ASN:OD1	44:IC:229:ARG:N	2.39	0.56
44:IC:234:VAL:HG13	44:IC:376:CYS:SG	2.46	0.56
44:IE:183:GLU:HG2	44:IE:184:PRO:CD	2.36	0.56
45:IF:103:LYS:HA	45:IF:107:THR:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:102:ASN:CB	44:II:105:ARG:HB2	2.32	0.56
44:II:137:VAL:HG12	44:II:167:LEU:O	2.06	0.56
44:II:405:VAL:O	44:II:409:VAL:HG23	2.05	0.56
45:IJ:86:ARG:HE	45:IJ:87:PRO:HD2	1.71	0.56
44:IK:340:THR:HG23	44:IK:341:ILE:HG13	1.87	0.56
45:IL:371:SER:O	45:IL:374:ILE:HG23	2.06	0.56
44:JA:269:LEU:HG	44:JA:379:SER:OG	2.05	0.56
45:JB:211:CYS:HB3	45:JB:217:LEU:CD2	2.19	0.56
45:JB:363:MET:CE	45:JB:363:MET:HA	2.36	0.56
44:JC:199:ASP:O	44:JC:266:HIS:ND1	2.39	0.56
44:JC:319:TYR:HE1	44:JC:375:VAL:HB	1.69	0.56
44:JE:292:THR:HG21	44:JE:331:SER:HB2	1.86	0.56
44:JE:414:GLU:HG3	44:JE:416:GLY:H	1.71	0.56
45:JH:31:ASP:HB2	45:JH:32:PRO:CD	2.35	0.56
45:JH:238:CYS:HB3	45:JH:318:ARG:HD3	1.87	0.56
45:JJ:148:GLY:O	45:JJ:152:ILE:HG13	2.04	0.56
44:JM:275:ILE:HA	44:JM:368:LEU:HD11	1.86	0.56
45:JN:3:GLU:OE1	45:JN:3:GLU:N	2.39	0.56
45:JN:54:ALA:HA	45:KN:283:ALA:CB	2.35	0.56
44:KA:64:ARG:HH21	44:KA:129:CYS:HG	1.51	0.56
44:KA:184:PRO:HG2	44:KA:398:MET:SD	2.45	0.56
45:KB:28:HIS:HE1	45:KB:241:ARG:HD3	1.64	0.56
44:KC:239:THR:HG23	44:KC:242:LEU:CD1	2.31	0.56
44:KE:46:ASP:O	44:KE:47:ASP:OD1	2.24	0.56
44:KE:265:ILE:HD12	44:KE:432:TYR:HE1	1.69	0.56
45:KF:242:PHE:HD1	45:KF:356:ILE:HB	1.69	0.56
45:KF:345:ILE:HG23	45:KF:345:ILE:O	2.05	0.56
45:KH:3:GLU:CG	45:KH:127:CYS:HB2	2.36	0.56
45:KJ:330:MET:HB3	45:KJ:349:ILE:HD11	1.88	0.56
44:KK:119:LEU:HD11	44:KK:156:ARG:HG3	1.87	0.56
44:KM:115:VAL:HG22	44:KM:119:LEU:HD23	1.88	0.56
44:KM:305:CYS:SG	44:KM:383:ALA:HB1	2.46	0.56
45:KN:313:ALA:C	45:KN:349:ILE:HD12	2.24	0.56
44:LA:397:LEU:HD21	45:LB:344:TRP:CA	2.34	0.56
45:LB:316:LEU:HD12	45:LB:352:SER:HB2	1.86	0.56
44:LC:115:VAL:CG2	44:LC:152:LEU:HD23	2.36	0.56
44:LE:56:THR:HB	44:LE:57:GLY:HA3	1.88	0.56
44:LG:403:ALA:O	44:LG:405:VAL:HG13	2.06	0.56
45:LL:360:GLY:C	45:LL:361:LEU:HD22	2.26	0.56
44:MA:269:LEU:HD23	44:MA:269:LEU:H	1.70	0.56
45:MB:70:PRO:HG3	45:MB:92:PHE:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:113:ILE:HA	45:MB:116:VAL:CG1	2.35	0.56
45:MB:198:GLU:OE2	45:MB:254:ALA:HB2	2.05	0.56
45:MB:204:ASN:O	45:MB:207:LEU:HB2	2.05	0.56
45:MB:325:GLU:HA	45:MB:328:GLU:HG2	1.88	0.56
44:MC:139:ASN:OD1	44:MC:170:THR:HG22	2.05	0.56
45:MD:69:GLU:OE2	45:MD:72:THR:N	2.39	0.56
45:MD:178:THR:HG22	45:MD:180:VAL:H	1.71	0.56
44:ME:171:ILE:HD13	44:ME:204:LEU:HB2	1.86	0.56
44:ME:251:ASP:H	44:ME:254:GLU:HG3	1.70	0.56
44:ME:276:ILE:HD13	44:ME:281:ALA:HA	1.88	0.56
44:ME:402:ARG:O	44:ME:405:VAL:HG22	2.06	0.56
45:MF:9:GLY:O	45:MF:13:GLY:HA3	2.05	0.56
45:MH:256:ASN:O	45:MH:312:THR:OG1	2.22	0.56
44:MI:356:ASN:OD1	44:MI:357:TYR:N	2.38	0.56
44:MK:156:ARG:O	44:MK:159:VAL:HG12	2.05	0.56
44:MM:223:THR:HG23	44:MM:225:THR:H	1.71	0.56
44:NA:175:PRO:HB3	44:NA:390:ARG:HD2	1.88	0.56
44:NA:190:SER:O	44:NA:193:SER:N	2.38	0.56
45:NB:44:LEU:HD23	45:NB:47:ILE:CD1	2.22	0.56
45:NB:168:SER:OG	45:NB:199:CYS:SG	2.44	0.56
45:ND:175:VAL:HG22	45:ND:205:GLU:OE2	2.06	0.56
44:NE:295:ALA:HB1	44:NE:377:MET:SD	2.45	0.56
45:NF:215:LEU:HB3	45:NF:217:LEU:HD22	1.87	0.56
45:NF:248:SER:HA	45:NF:252:LYS:HD2	1.88	0.56
44:NG:138:PHE:HZ	44:NG:235:ILE:HD12	1.71	0.56
44:NG:176:GLN:HG2	45:NH:331:LEU:HD21	1.88	0.56
44:NI:145:THR:HG21	46:NI:501:GTP:O3G	2.06	0.56
44:NK:97:GLU:OE2	44:NK:98:ASP:N	2.31	0.56
45:NL:20:PHE:O	45:NL:24:ILE:HG12	2.06	0.56
44:NM:104:ALA:CB	44:NM:411:GLU:HB2	2.36	0.56
44:OA:288:VAL:HA	44:OA:291:ILE:HG12	1.87	0.56
45:OB:332:ASN:O	45:OB:336:LYS:HG3	2.06	0.56
44:OC:298:PRO:HA	44:OC:301:MET:CE	2.35	0.56
44:OG:413:MET:HA	44:OG:413:MET:HE2	1.87	0.56
44:OI:288:VAL:CA	44:OI:291:ILE:HG12	2.34	0.56
44:OK:33:ASP:HB3	44:OK:35:GLN:OE1	2.06	0.56
44:OK:86:LEU:HD23	44:OK:87:PHE:CZ	2.40	0.56
44:OM:434:GLU:O	44:OM:437:ILE:HG22	2.05	0.56
45:ON:166:THR:HB	45:ON:199:CYS:CB	2.35	0.56
45:ON:173:PRO:HG3	45:ON:380:ARG:HD3	1.88	0.56
45:ON:239:CYS:SG	45:ON:354:CYS:HB2	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:326:LYS:HB2	45:PF:212:PHE:CZ	2.39	0.56
45:PD:60:VAL:H	45:PD:62:ARG:NH1	2.04	0.56
45:PD:222:TYR:O	45:PD:225:LEU:N	2.38	0.56
45:PD:245:GLN:C	45:PD:246:LEU:HD12	2.26	0.56
45:PD:304:ASP:HB3	45:PD:307:HIS:CG	2.41	0.56
45:PF:86:ARG:HG3	45:PF:87:PRO:HD2	1.87	0.56
44:PG:171:ILE:HG13	44:PG:204:LEU:HB2	1.86	0.56
44:PG:171:ILE:HG23	44:PG:204:LEU:O	2.05	0.56
45:PJ:22:GLU:HG2	45:PJ:81:PHE:CD1	2.41	0.56
45:PJ:192:LEU:CD1	45:PJ:196:ALA:HB2	2.35	0.56
44:PK:201:ALA:HB3	44:PK:267:PHE:HA	1.88	0.56
45:PL:241:ARG:O	45:PL:242:PHE:HD1	1.89	0.56
44:PM:237:SER:HA	44:PM:320:ARG:CZ	2.36	0.56
45:QB:315:ALA:HB3	45:QB:351:SER:OG	2.04	0.56
44:QC:20:CYS:O	44:QC:24:PHE:N	2.32	0.56
45:QD:4:ILE:HG23	45:QD:131:GLN:HB3	1.87	0.56
45:QD:7:ILE:HB	45:QD:135:ILE:CD1	2.36	0.56
45:QD:20:PHE:CE1	45:QD:24:ILE:HG13	2.41	0.56
45:QD:139:LEU:HG	45:QD:188:SER:OG	2.05	0.56
45:QD:272:PRO:HA	45:QD:292:GLN:HE22	1.70	0.56
45:QD:288:GLU:O	45:QD:291:GLN:HG3	2.04	0.56
44:QG:208:ALA:O	44:QG:212:ILE:HG12	2.04	0.56
44:QI:195:LEU:HD21	44:QI:264:ARG:NH2	2.20	0.56
44:QI:270:SER:O	44:QI:271:SER:OG	2.24	0.56
45:QJ:14:ASN:ND2	45:QJ:66:MET:O	2.27	0.56
44:QK:261:PRO:HG3	45:QL:394:PHE:CZ	2.41	0.56
45:QL:324:LYS:HD2	44:QM:210:TYR:CG	2.40	0.56
45:QN:189:VAL:HA	45:QN:192:LEU:CB	2.34	0.56
44:RA:5:ILE:HG23	44:RA:64:ARG:O	2.06	0.56
45:RB:207:LEU:HB3	45:RB:225:LEU:HD22	1.88	0.56
44:RC:3:GLU:OE2	44:RC:130:THR:N	2.38	0.56
45:RD:65:LEU:HD22	45:RD:90:PHE:CE1	2.40	0.56
45:RD:387:ALA:O	45:RD:390:ARG:HG2	2.06	0.56
44:RE:138:PHE:HE1	44:RE:169:PHE:CD2	2.24	0.56
44:RE:312:TYR:CD2	44:RE:341:ILE:HG23	2.40	0.56
45:RF:36:TYR:CE2	45:RF:44:LEU:HD21	2.41	0.56
44:RG:276:ILE:CG2	44:RG:281:ALA:HB2	2.36	0.56
44:RG:311:LYS:O	44:RG:381:SER:HB3	2.06	0.56
44:RI:107:HIS:CE1	44:RI:152:LEU:HD13	2.40	0.56
45:RJ:325:GLU:HG2	45:RJ:329:GLN:HG2	1.86	0.56
44:RK:258:ASN:HD21	44:RK:352:LYS:HD3	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:377:MET:O	44:RM:378:ILE:HD13	2.06	0.56
44:SA:73:THR:HA	44:SA:76:ASP:OD2	2.05	0.56
44:SA:329:ASN:HB3	45:SB:175:VAL:HG12	1.88	0.56
44:SC:269:LEU:HB2	44:SC:301:MET:CE	2.34	0.56
45:SD:54:ALA:HB1	45:TD:282:ARG:C	2.26	0.56
45:SD:130:LEU:HD11	45:SD:133:PHE:HE1	1.70	0.56
44:SE:188:ILE:HD12	44:SE:425:LEU:HD13	1.88	0.56
44:SI:169:PHE:CE2	44:SI:235:ILE:HD12	2.41	0.56
45:SJ:257:LEU:O	45:SJ:266:PHE:HZ	1.87	0.56
44:SK:213:CYS:SG	44:SK:217:LEU:HD12	2.45	0.56
45:SL:263:LEU:HG	45:SL:422:TYR:CD1	2.41	0.56
45:SL:312:THR:OG1	45:SL:348:ASN:HB2	2.06	0.56
45:SN:316:LEU:HA	45:SN:352:SER:O	2.06	0.56
45:TB:210:ILE:HG12	45:TB:297:LYS:O	2.06	0.56
45:TD:117:LEU:CA	45:TD:120:VAL:HG22	2.36	0.56
45:TD:134:GLN:O	45:TD:134:GLN:HG3	2.05	0.56
45:TD:267:MET:CE	45:TD:305:PRO:HB3	2.35	0.56
45:TD:318:ARG:HH21	45:TD:356:ILE:HB	1.71	0.56
44:TE:202:VAL:HG12	44:TE:268:MET:SD	2.45	0.56
44:TE:288:VAL:HA	44:TE:291:ILE:HG12	1.87	0.56
45:TF:228:LEU:HD22	45:TF:273:LEU:CD1	2.36	0.56
45:TF:232:ALA:HB1	45:TF:268:ILE:CD1	2.34	0.56
44:TG:135:PHE:CG	44:TG:157:LEU:HD21	2.40	0.56
44:TG:189:LEU:HD23	44:TG:421:ALA:CB	2.35	0.56
44:TI:172:TYR:CE2	44:TI:203:MET:HE2	2.40	0.56
44:TI:250:VAL:HG21	44:TI:318:MET:CE	2.36	0.56
45:TJ:255:VAL:HG21	44:TK:100:ALA:CB	2.36	0.56
44:TK:158:SER:O	44:TK:162:GLY:HA2	2.06	0.56
45:TL:201:VAL:HG23	45:TL:301:CYS:SG	2.46	0.56
45:UB:207:LEU:HD21	45:UB:300:MET:HE1	1.88	0.56
45:UD:181:GLU:HA	45:UD:184:ASN:OD1	2.06	0.56
45:UD:322:SER:HB2	44:UE:221:ARG:NE	2.21	0.56
45:UD:378:PHE:HB3	45:UD:419:VAL:CG2	2.35	0.56
44:UE:184:PRO:HB3	44:UE:394:LYS:HE2	1.88	0.56
45:UJ:237:THR:OG1	45:UJ:240:LEU:HB3	2.06	0.56
44:UK:243:ARG:HG3	44:UK:244:PHE:CE2	2.41	0.56
45:UL:217:LEU:HD12	45:UL:220:PRO:HD3	1.87	0.56
44:UM:115:VAL:HG22	44:UM:119:LEU:CD2	2.35	0.56
44:UM:350:GLY:HA2	45:UN:179:VAL:CG1	2.36	0.56
45:UN:166:THR:OG1	45:UN:196:ALA:HB1	2.06	0.56
44:VA:60:LYS:HD3	44:WA:283:HIS:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:167:LEU:HD11	44:VA:252:ILE:HD11	1.88	0.56
44:VA:222:PRO:HD2	45:VB:324:LYS:HD3	1.86	0.56
44:VA:284:GLU:HG3	44:VA:286:LEU:CD2	2.36	0.56
45:VB:163:ILE:CG1	45:VB:251:ARG:HG3	2.35	0.56
44:VC:270:SER:HB3	44:VC:378:ILE:HD13	1.86	0.56
44:VE:1:MET:CE	45:VH:94:GLN:HG2	2.36	0.56
44:VE:223:THR:HG23	44:VE:225:THR:H	1.71	0.56
44:VG:3:GLU:HB3	44:VG:64:ARG:HH12	1.69	0.56
44:VG:115:VAL:CG2	44:VG:156:ARG:HD2	2.36	0.56
44:VG:141:VAL:HG13	44:VG:190:SER:HB2	1.87	0.56
44:VG:181:VAL:HG22	45:VH:256:ASN:HB3	1.87	0.56
44:VG:419:SER:O	44:VG:423:GLU:HG3	2.05	0.56
45:VH:328:GLU:O	45:VH:332:ASN:N	2.25	0.56
44:VK:99:ALA:O	44:VK:105:ARG:HD3	2.06	0.56
44:VM:18:ASN:O	44:VM:21:TRP:HB2	2.06	0.56
44:VM:236:SER:O	44:VM:240:ALA:N	2.39	0.56
44:VM:392:ASP:OD1	44:VM:422:ARG:NE	2.38	0.56
45:VN:52:ASN:HB2	45:VN:60:VAL:CG1	2.34	0.56
45:VN:296:ALA:HB1	45:VN:305:PRO:HD2	1.87	0.56
44:WA:152:LEU:HB2	44:WA:153:LEU:O	2.06	0.56
44:WA:205:ASP:CG	44:WA:303:ALA:HA	2.26	0.56
45:WB:64:ILE:C	45:WB:65:LEU:HD12	2.25	0.56
45:WB:187:LEU:HD21	45:WB:408:PHE:CZ	2.41	0.56
44:WC:76:ASP:OD1	44:WC:79:ARG:NH2	2.39	0.56
44:WE:19:ALA:CB	44:WE:228:ASN:HB3	2.36	0.56
44:WE:291:ILE:HG13	44:WE:292:THR:N	2.19	0.56
44:WE:370:LYS:HD3	44:WE:372:MET:SD	2.46	0.56
44:WI:73:THR:OG1	45:WJ:2:ARG:NH2	2.38	0.56
45:WJ:248:SER:CA	45:WJ:252:LYS:HD2	2.27	0.56
44:WK:225:THR:HA	44:WK:228:ASN:OD1	2.04	0.56
5:0D:224:ARG:HG3	35:7R:566:PHE:CE2	2.41	0.56
9:1H:327:ARG:HH12	45:GD:55:THR:HG23	1.70	0.56
22:1L:163:ARG:HH21	44:BI:79:ARG:HG3	1.70	0.56
22:1L:176:ARG:NH1	44:CI:366:GLY:O	2.38	0.56
10:1N:94:THR:HB	45:KJ:276:ARG:NH2	2.19	0.56
32:3I:246:ALA:HB2	44:GI:214:ARG:HB2	1.87	0.56
32:3I:261:PHE:CD1	45:GJ:291:GLN:HG3	2.40	0.56
14:3U:193:LYS:CB	45:WN:80:PRO:HD3	2.35	0.56
31:4H:167:LYS:HE3	44:MI:44:GLY:HA3	1.86	0.56
37:5D:117:PRO:HB3	44:NM:320:ARG:C	2.26	0.56
38:5F:118:PRO:O	38:5F:119:GLU:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5J:155:TYR:OH	44:JI:419:SER:O	2.22	0.56
11:5Q:34:ILE:HG13	11:5Q:49:ILE:HD13	1.86	0.56
35:5R:85:TRP:CZ3	35:5R:86:LEU:HB2	2.40	0.56
35:5R:256:LEU:CD2	35:5R:356:THR:HG23	2.26	0.56
35:5R:429:LYS:HD2	35:5R:430:LEU:O	2.06	0.56
40:6F:62:GLN:N	44:IE:84:ARG:HH22	2.04	0.56
41:6G:280:ALA:O	44:VA:214:ARG:HD2	2.06	0.56
41:6G:281:THR:HG21	41:6G:284:LYS:HG2	1.88	0.56
11:6Q:115:LYS:NZ	44:AM:264:ARG:HH11	2.04	0.56
35:6R:315:MET:HG2	45:CN:26:ASP:OD2	2.00	0.56
35:7R:207:ASP:O	35:7R:210:GLU:HG3	2.05	0.56
35:7R:267:LEU:HD12	35:7R:268:GLU:N	2.21	0.56
35:7R:341:ARG:NH2	35:7R:344:ASN:HA	2.20	0.56
35:7R:401:VAL:HG11	45:EB:276:ARG:HG3	1.88	0.56
35:7R:593:ASP:CG	35:7R:599:LYS:H	2.08	0.56
35:7R:601:ASP:HB3	35:7R:604:SER:OG	2.06	0.56
42:8N:109:UNK:O	42:8N:113:UNK:N	2.38	0.56
45:AB:178:THR:HG22	45:AB:180:VAL:H	1.71	0.56
45:AF:378:PHE:HB3	45:AF:419:VAL:CG2	2.36	0.56
45:AJ:110:ALA:O	45:AJ:113:ILE:HG22	2.06	0.56
45:AJ:113:ILE:HA	45:AJ:116:VAL:HG12	1.87	0.56
44:AK:93:ILE:CD1	44:AK:117:LEU:HD21	2.35	0.56
44:AK:169:PHE:CE2	44:AK:202:VAL:HG21	2.41	0.56
45:AL:262:ARG:HH21	45:AL:421:GLU:HG3	1.69	0.56
44:AM:174:SER:HB2	44:AM:177:VAL:HG23	1.88	0.56
44:BA:314:ALA:HB3	44:BA:380:ASN:CB	2.29	0.56
44:BC:350:GLY:HA2	45:BF:179:VAL:HG12	1.88	0.56
45:BD:48:ASN:HA	45:BD:51:TYR:O	2.05	0.56
45:BD:130:LEU:HD11	45:BD:133:PHE:CE1	2.41	0.56
44:BE:21:TRP:CZ2	44:BE:65:ALA:HB2	2.40	0.56
45:BF:105:HIS:CD2	45:BF:150:LEU:HB3	2.41	0.56
44:BG:278:ALA:N	44:BG:369:ALA:HB2	2.21	0.56
45:BH:263:LEU:HD22	45:BH:422:TYR:CD2	2.41	0.56
44:BI:224:TYR:CE2	45:BJ:246:LEU:HD11	2.35	0.56
44:BK:18:ASN:O	44:BK:22:GLU:OE1	2.23	0.56
44:BK:172:TYR:HB3	44:BK:173:PRO:HD2	1.86	0.56
44:BM:34:GLY:O	44:BM:60:LYS:HA	2.06	0.56
44:CA:268:MET:HG3	44:CA:380:ASN:HA	1.86	0.56
44:CA:276:ILE:CD1	44:CA:280:LYS:HG3	2.36	0.56
44:CC:172:TYR:HB3	44:CC:173:PRO:HD2	1.87	0.56
45:CD:185:ALA:O	45:CD:189:VAL:HG12	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:317:PHE:CD1	45:CD:365:VAL:HG22	2.41	0.56
45:CF:257:LEU:HD21	45:CF:368:VAL:HG13	1.88	0.56
45:CF:302:ALA:HB3	45:CF:377:MET:HE1	1.88	0.56
44:CG:268:MET:HB2	44:CG:379:SER:C	2.26	0.56
45:CH:322:SER:HB2	44:CI:222:PRO:O	2.06	0.56
45:CJ:67:ASP:HB3	45:CJ:73:MET:CE	2.34	0.56
44:CK:2:ARG:HB2	44:CK:133:GLN:CG	2.35	0.56
44:CK:306:ASP:OD2	44:CK:308:ARG:NH2	2.36	0.56
45:CL:31:ASP:OD2	45:CL:37:HIS:ND1	2.38	0.56
45:CL:178:THR:HG21	45:CL:180:VAL:HG12	1.88	0.56
45:CL:237:THR:OG1	45:CL:240:LEU:HB3	2.06	0.56
45:CL:244:GLY:HA2	45:CL:355:ASP:OD2	2.06	0.56
44:CM:183:GLU:CG	44:CM:184:PRO:HD3	2.35	0.56
44:CM:278:ALA:CA	44:CM:369:ALA:HB2	2.35	0.56
45:DB:289:LEU:CD1	45:DB:363:MET:HB3	2.33	0.56
44:DC:132:LEU:O	44:DC:164:LYS:NZ	2.38	0.56
44:DE:248:LEU:HD11	48:DF:501:GDP:H5''	1.88	0.56
45:DF:61:PRO:CG	45:DF:84:LEU:HB3	2.36	0.56
45:DH:124:ALA:HB1	45:DH:130:LEU:HD22	1.88	0.56
44:DK:102:ASN:OD1	44:DK:104:ALA:N	2.39	0.56
44:DK:269:LEU:HD23	44:DK:379:SER:O	2.05	0.56
45:DL:106:TYR:CD2	45:DL:403:MET:HE1	2.41	0.56
45:DL:331:LEU:HD21	44:DM:176:GLN:O	2.06	0.56
45:DN:130:LEU:HD23	45:DN:162:ARG:HD2	1.87	0.56
45:DN:412:GLU:O	45:DN:416:ASN:HB2	2.06	0.56
44:EA:171:ILE:HA	44:EA:204:LEU:HB2	1.88	0.56
44:EC:207:GLU:HB3	44:EC:304:LYS:NZ	2.21	0.56
44:EC:261:PRO:HG3	45:ED:394:PHE:CZ	2.41	0.56
45:ED:390:ARG:HG3	45:ED:391:ARG:N	2.21	0.56
44:EE:171:ILE:HG21	44:EE:206:ASN:OD1	2.06	0.56
45:EF:201:VAL:HG12	45:EF:266:PHE:O	2.05	0.56
45:EH:210:ILE:HD12	45:EH:300:MET:HG2	1.88	0.56
45:EH:213:ARG:HH21	45:EH:297:LYS:HE3	1.70	0.56
45:EH:418:LEU:O	45:EH:422:TYR:N	2.38	0.56
45:EN:106:TYR:CD2	45:EN:403:MET:HG2	2.40	0.56
44:FA:319:TYR:CD2	44:FA:375:VAL:HB	2.40	0.56
45:FB:244:GLY:HA2	45:FB:355:ASP:H	1.70	0.56
45:FD:42:LEU:HA	45:FD:45:GLU:CG	2.32	0.56
45:FD:117:LEU:HD11	45:FD:121:ARG:NH2	2.20	0.56
45:FD:175:VAL:O	45:FD:175:VAL:HG23	2.05	0.56
45:FD:203:ASP:O	45:FD:207:LEU:HG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FF:193:VAL:HA	45:FF:264:HIS:HE1	1.70	0.56
45:FH:248:SER:OG	45:FH:252:LYS:HD2	2.06	0.56
45:FH:262:ARG:HD3	45:FH:418:LEU:CD1	2.36	0.56
44:FI:3:GLU:OE2	44:FI:130:THR:HG22	2.06	0.56
44:FK:254:GLU:HG2	45:FN:98:GLY:CA	2.27	0.56
45:FL:423:GLN:O	45:FL:426:GLN:N	2.38	0.56
45:FN:68:LEU:HD12	45:FN:93:GLY:HA3	1.87	0.56
44:GA:68:LEU:HD21	44:GA:118:CYS:SG	2.46	0.56
45:GB:258:ILE:HG13	45:GB:266:PHE:HZ	1.70	0.56
44:GC:117:LEU:O	44:GC:120:ASP:HB2	2.06	0.56
45:GD:183:TYR:OH	45:GD:388:MET:HB3	2.06	0.56
44:GG:189:LEU:HD11	44:GG:418:PHE:HE1	1.68	0.56
45:GH:16:ILE:HD11	45:GH:229:VAL:CG1	2.36	0.56
44:GI:178:SER:HB3	45:GJ:347:ASN:ND2	2.20	0.56
45:GJ:235:GLY:HA2	45:GJ:318:ARG:NH2	2.21	0.56
44:GK:223:THR:N	44:GK:226:ASN:OD1	2.21	0.56
45:HB:238:CYS:SG	45:HB:239:CYS:N	2.78	0.56
45:HB:313:ALA:HB3	45:HB:349:ILE:HG23	1.87	0.56
45:HB:412:GLU:HA	45:HB:415:MET:HG2	1.86	0.56
45:HD:314:SER:OG	45:HD:368:VAL:HB	2.06	0.56
45:HF:20:PHE:CA	45:HF:23:VAL:HG12	2.33	0.56
45:HH:69:GLU:OE1	45:HH:72:THR:HG22	2.05	0.56
45:HH:170:VAL:CG2	45:HH:171:PRO:HD2	2.35	0.56
45:HH:267:MET:SD	45:HH:299:MET:HE2	2.46	0.56
44:HK:91:GLN:HG3	44:HK:92:LEU:HD12	1.87	0.56
44:HK:188:ILE:HD12	44:HK:425:LEU:CD1	2.36	0.56
45:HN:32:PRO:HG3	45:HN:81:PHE:CZ	2.40	0.56
45:IB:10:GLY:O	45:IB:14:ASN:ND2	2.39	0.56
45:IB:210:ILE:HD11	45:IB:299:MET:O	2.05	0.56
45:IB:423:GLN:HG2	45:IB:426:GLN:OE1	2.05	0.56
44:IC:185:TYR:OH	44:IC:398:MET:HB3	2.06	0.56
44:IE:285:GLN:OE1	44:IE:287:SER:HB3	2.06	0.56
44:IE:288:VAL:HG23	44:IE:291:ILE:HD11	1.88	0.56
45:IF:55:THR:HG23	44:JC:285:GLN:O	2.06	0.56
44:II:88:HIS:HE1	44:II:90:GLU:HG2	1.68	0.56
45:IJ:257:LEU:HA	45:IJ:312:THR:HG21	1.88	0.56
45:IJ:286:VAL:HA	45:IJ:363:MET:HE2	1.88	0.56
45:IL:200:MET:HB3	45:IL:266:PHE:HB2	1.87	0.56
44:IM:407:TRP:CZ3	45:IN:255:VAL:HA	2.40	0.56
45:IN:240:LEU:HD23	45:IN:240:LEU:O	2.06	0.56
45:IN:344:TRP:CE3	45:IN:345:ILE:HB	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JA:11:GLN:NE2	45:JB:245:GLN:O	2.38	0.56
45:JB:42:LEU:HD12	45:JB:243:PRO:HD3	1.88	0.56
45:JB:215:LEU:HB2	45:JB:217:LEU:HD22	1.86	0.56
44:JE:101:ASN:OD1	45:JF:252:LYS:HG3	2.06	0.56
44:JE:195:LEU:CD1	44:JE:428:LEU:HD22	2.33	0.56
45:JF:67:ASP:OD1	45:JF:68:LEU:N	2.39	0.56
45:JF:211:CYS:HA	45:JF:215:LEU:HD12	1.88	0.56
45:JF:392:LYS:HD2	45:JF:395:LEU:HD22	1.87	0.56
44:JG:151:SER:O	44:JG:155:GLU:HG3	2.05	0.56
44:JG:216:ASN:HB3	44:JG:275:ILE:O	2.06	0.56
44:JI:9:VAL:CG1	44:JI:68:LEU:HB2	2.26	0.56
44:JI:265:ILE:HD12	44:JI:432:TYR:CD1	2.41	0.56
44:JK:8:HIS:HD2	44:JK:138:PHE:HB2	1.71	0.56
45:KB:229:VAL:O	45:KB:232:ALA:N	2.39	0.56
44:KC:308:ARG:NH2	44:NC:282:TYR:HB3	2.21	0.56
45:KD:200:MET:CG	45:KD:266:PHE:HB2	2.15	0.56
45:KH:345:ILE:O	45:KH:345:ILE:HG23	2.06	0.56
44:KI:285:GLN:HG3	44:KI:287:SER:H	1.71	0.56
44:KK:60:LYS:HZ3	44:KK:62:VAL:HA	1.70	0.56
45:KN:250:LEU:O	45:KN:250:LEU:HD23	2.06	0.56
45:KN:272:PRO:HD3	45:KN:364:ALA:CB	2.36	0.56
45:KN:326:VAL:O	45:KN:330:MET:HG2	2.06	0.56
44:LA:56:THR:O	44:MA:285:GLN:HA	2.04	0.56
44:LA:259:LEU:HD21	44:LA:316:SER:HB2	1.87	0.56
45:LB:44:LEU:HD23	45:LB:47:ILE:HD13	1.86	0.56
44:LC:349:THR:OG1	45:LF:176:SER:HB2	2.06	0.56
44:LE:141:VAL:HG11	44:LE:172:TYR:CD1	2.41	0.56
44:LE:398:MET:CE	45:LF:346:PRO:HD2	2.36	0.56
45:LF:97:ALA:CB	45:LF:143:THR:HB	2.36	0.56
45:LF:215:LEU:HD22	45:LF:217:LEU:CD2	2.35	0.56
45:LH:94:GLN:OE1	45:LH:94:GLN:N	2.39	0.56
44:LM:34:GLY:HA3	44:LM:60:LYS:HB2	1.87	0.56
44:MA:101:ASN:HA	44:MA:144:GLY:CA	2.36	0.56
45:MB:21:TRP:CH2	45:MB:61:PRO:HB3	2.40	0.56
44:MC:161:TYR:HB3	44:MC:164:LYS:NZ	2.21	0.56
45:MF:162:ARG:N	45:MF:162:ARG:HD3	2.21	0.56
45:MF:304:ASP:OD1	45:MF:306:ARG:HG2	2.06	0.56
44:MG:54:SER:HB3	44:MG:64:ARG:NH1	2.21	0.56
44:MG:292:THR:HG22	44:MG:317:MET:CE	2.36	0.56
45:MH:4:ILE:HD11	45:MH:50:TYR:CZ	2.41	0.56
45:MJ:276:ARG:NE	45:MJ:276:ARG:HA	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:52:PHE:HZ	44:MK:239:THR:HG21	1.71	0.56
45:ML:165:GLU:OE2	45:ML:250:LEU:HD21	2.05	0.56
44:MM:318:MET:HA	44:MM:318:MET:HE2	1.87	0.56
44:NA:5:ILE:HD11	44:NA:129:CYS:SG	2.45	0.56
45:NB:40:SER:H	45:NB:43:GLN:NE2	2.04	0.56
45:NB:372:THR:HA	45:NB:422:TYR:HE1	1.70	0.56
44:NE:2:ARG:HH22	45:NH:71:GLY:HA3	1.70	0.56
44:NE:71:GLU:OE1	44:NE:73:THR:N	2.38	0.56
45:NF:316:LEU:HD13	45:NF:352:SER:CB	2.30	0.56
45:NF:392:LYS:CD	45:NF:395:LEU:HD23	2.36	0.56
44:NG:288:VAL:O	44:NG:292:THR:HG22	2.05	0.56
45:NH:321:MET:SD	45:NH:353:ILE:HG23	2.46	0.56
45:NH:388:MET:SD	45:NH:391:ARG:HD3	2.45	0.56
44:NK:205:ASP:OD1	44:NK:303:ALA:HA	2.06	0.56
44:NK:414:GLU:OE2	44:NK:417:GLU:HB3	2.06	0.56
45:NL:398:TYR:HB3	45:NL:403:MET:HE3	1.87	0.56
44:NM:150:GLY:O	44:NM:154:LEU:HG	2.06	0.56
44:NM:398:MET:SD	45:NN:346:PRO:HD2	2.46	0.56
45:NN:193:VAL:HA	45:NN:264:HIS:CE1	2.41	0.56
45:NN:200:MET:HE3	45:NN:268:ILE:HG21	1.87	0.56
45:OB:202:ILE:HA	45:OB:301:CYS:SG	2.46	0.56
45:OB:358:PRO:HD2	45:OB:361:LEU:O	2.05	0.56
44:OC:434:GLU:O	44:OC:437:ILE:HG22	2.06	0.56
45:OD:45:GLU:CD	45:OD:46:ARG:HG2	2.26	0.56
44:OE:333:ALA:O	44:OE:337:THR:HG23	2.06	0.56
44:OE:393:HIS:O	44:OE:397:LEU:HB2	2.05	0.56
45:OJ:66:MET:HE1	45:OJ:151:LEU:HD13	1.87	0.56
44:OK:136:LEU:HD21	44:OK:167:LEU:HD12	1.86	0.56
44:OK:247:ALA:C	44:OK:248:LEU:HD12	2.25	0.56
44:OM:252:ILE:HA	44:OM:255:PHE:CE1	2.41	0.56
45:ON:248:SER:HB2	45:ON:252:LYS:HZ1	1.71	0.56
44:PA:318:MET:SD	44:PA:376:CYS:HB3	2.46	0.56
44:PA:425:LEU:O	44:PA:429:GLU:HG3	2.05	0.56
45:PB:193:VAL:HG21	45:PB:418:LEU:HD22	1.87	0.56
44:PE:66:VAL:HG22	44:PE:68:LEU:CD2	2.36	0.56
44:PE:136:LEU:HD23	44:PE:167:LEU:HB2	1.88	0.56
45:PF:47:ILE:HG12	45:PF:51:TYR:HB2	1.87	0.56
45:PH:189:VAL:O	45:PH:193:VAL:HG22	2.06	0.56
44:PI:1:MET:HE1	45:PL:94:GLN:HG2	1.88	0.56
44:PI:140:SER:O	44:PI:146:GLY:HA3	2.06	0.56
44:PI:259:LEU:CD2	44:PI:316:SER:HB3	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:146:GLY:O	45:PL:149:THR:HG22	2.05	0.56
44:PM:7:ILE:HD12	44:PM:122:ILE:CD1	2.36	0.56
44:PM:99:ALA:HB1	44:PM:105:ARG:HB2	1.88	0.56
44:PM:203:MET:HG3	44:PM:384:ILE:HD11	1.88	0.56
45:PN:306:ARG:HA	45:PN:340:TYR:HE1	1.71	0.56
45:PN:416:ASN:O	45:PN:420:SER:N	2.31	0.56
44:QA:52:PHE:CZ	44:QA:239:THR:HB	2.41	0.56
45:QB:54:ALA:HA	45:RB:283:ALA:HB2	1.87	0.56
44:QC:301:MET:HG3	44:QC:303:ALA:O	2.06	0.56
44:QE:168:GLY:O	44:QE:201:ALA:HA	2.06	0.56
44:QI:297:GLU:OE2	44:QI:300:ASN:HB2	2.05	0.56
44:QM:21:TRP:O	44:QM:25:CYS:N	2.23	0.56
45:QN:268:ILE:HG22	45:QN:368:VAL:HA	1.88	0.56
44:RA:320:ARG:CZ	44:RA:360:PRO:HG3	2.36	0.56
45:RD:97:ALA:HB1	45:RD:103:LYS:HB3	1.88	0.56
45:RD:163:ILE:CD1	45:RD:250:LEU:HB2	2.35	0.56
44:RE:102:ASN:CG	44:RE:105:ARG:HG3	2.26	0.56
44:RE:384:ILE:HG13	44:RE:387:VAL:CG2	2.36	0.56
45:RF:321:MET:CE	45:RF:363:MET:HG2	2.36	0.56
45:RH:11:GLN:HA	45:RH:14:ASN:ND2	2.12	0.56
45:RH:51:TYR:HB3	45:RH:59:TYR:HB3	1.86	0.56
44:RI:277:SER:HA	44:RI:367:ASP:O	2.05	0.56
44:RM:1:MET:CE	45:RN:94:GLN:HG2	2.35	0.56
44:RM:311:LYS:O	44:RM:382:THR:HG23	2.05	0.56
44:RM:317:MET:HE1	44:RM:319:TYR:OH	2.05	0.56
44:SA:321:GLY:O	44:SA:357:TYR:HA	2.05	0.56
45:SB:110:ALA:O	45:SB:113:ILE:HG22	2.06	0.56
45:SB:123:GLU:O	45:SB:126:GLY:N	2.39	0.56
45:SB:130:LEU:HD21	45:SB:133:PHE:HZ	1.71	0.56
45:SB:347:ASN:HB3	44:SC:178:SER:OG	2.06	0.56
44:SE:141:VAL:CG1	44:SE:172:TYR:HA	2.35	0.56
44:SE:150:GLY:O	44:SE:154:LEU:N	2.33	0.56
45:SF:330:MET:HG2	45:SF:349:ILE:HG21	1.88	0.56
45:SH:97:ALA:HB3	45:SH:143:THR:HA	1.88	0.56
44:SI:284:GLU:HG3	44:SI:286:LEU:CD2	2.36	0.56
45:SJ:12:CYS:O	45:SJ:16:ILE:HD12	2.06	0.56
45:SJ:323:THR:O	45:SJ:327:ASP:N	2.39	0.56
44:SK:235:ILE:O	44:SK:239:THR:N	2.33	0.56
44:SK:383:ALA:O	44:SK:386:GLU:HG2	2.06	0.56
45:SL:60:VAL:HG23	45:SL:60:VAL:O	2.06	0.56
44:SM:7:ILE:N	44:SM:136:LEU:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:21:TRP:CZ2	45:SN:63:ALA:HB2	2.41	0.56
45:SN:65:LEU:O	45:SN:91:VAL:HG22	2.06	0.56
44:TA:155:GLU:HA	44:TA:197:HIS:CE1	2.40	0.56
44:TA:194:LEU:HB2	44:TA:198:THR:CG2	2.35	0.56
45:TB:213:ARG:NH2	45:TB:214:THR:HG22	2.17	0.56
44:TC:63:PRO:HG3	44:TC:86:LEU:CG	2.31	0.56
44:TC:256:GLN:HA	44:TC:260:VAL:HG23	1.88	0.56
45:TD:285:THR:H	45:TD:288:GLU:HB2	1.69	0.56
45:TD:344:TRP:CZ3	45:TD:345:ILE:HB	2.41	0.56
44:TE:288:VAL:HB	44:TE:323:VAL:HG23	1.88	0.56
44:TG:358:GLN:OE1	44:TG:358:GLN:HA	2.06	0.56
45:TH:5:VAL:HG12	45:TH:62:ARG:HD3	1.88	0.56
44:TI:14:ILE:CD1	44:TI:69:ASP:HB2	2.36	0.56
45:TJ:178:THR:HG22	45:TJ:180:VAL:N	2.20	0.56
45:TJ:287:PRO:O	45:TJ:290:THR:HG22	2.05	0.56
45:TL:69:GLU:OE2	45:TL:72:THR:HG22	2.06	0.56
45:TL:193:VAL:HA	45:TL:264:HIS:CE1	2.40	0.56
44:TM:121:ARG:CG	44:TM:124:LYS:HE3	2.35	0.56
44:TM:340:THR:HG23	44:TM:341:ILE:HG13	1.88	0.56
45:TN:377:MET:O	45:TN:380:ARG:HG2	2.06	0.56
44:UA:219:ILE:O	44:UA:222:PRO:HD3	2.06	0.56
44:UA:264:ARG:HH22	44:UA:428:LEU:HB2	1.71	0.56
44:UC:174:SER:HB2	44:UC:177:VAL:O	2.06	0.56
45:UD:139:LEU:CD1	45:UD:168:SER:HB3	2.36	0.56
44:UE:319:TYR:HE2	44:UE:328:VAL:HG22	1.71	0.56
45:UF:221:THR:HG22	45:UF:224:ASP:OD2	2.05	0.56
45:UF:293:MET:SD	45:UF:365:VAL:HG11	2.46	0.56
44:UG:9:VAL:CG1	44:UG:139:ASN:HB3	2.36	0.56
45:UH:318:ARG:HB3	45:UH:358:PRO:HD3	1.88	0.56
44:UI:247:ALA:HB2	44:UI:357:TYR:OH	2.06	0.56
45:UJ:1:MET:CE	44:UK:96:LYS:HD2	2.36	0.56
45:UJ:55:THR:OG1	45:VJ:282:ARG:O	2.07	0.56
45:UJ:141:GLY:HA3	48:UJ:501:GDP:O3A	2.06	0.56
45:UJ:193:VAL:HG23	45:UJ:264:HIS:NE2	2.20	0.56
44:UK:405:VAL:O	44:UK:409:VAL:HG23	2.06	0.56
44:UM:2:ARG:H	44:UM:2:ARG:HD3	1.70	0.56
44:UM:87:PHE:CB	44:UM:92:LEU:HD11	2.35	0.56
45:VB:246:LEU:HD13	45:VB:353:ILE:CD1	2.34	0.56
45:VB:253:LEU:O	45:VB:257:LEU:HB2	2.05	0.56
45:VB:358:PRO:CG	45:VB:364:ALA:HB3	2.35	0.56
44:VE:60:LYS:HG3	44:VE:61:HIS:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:256:GLN:C	45:VH:397:TRP:HE1	2.05	0.56
45:VF:326:VAL:O	45:VF:330:MET:HG2	2.05	0.56
44:VG:22:GLU:HG3	44:VG:83:TYR:OH	2.05	0.56
44:VG:386:GLU:O	44:VG:389:SER:OG	2.12	0.56
45:VH:69:GLU:OE1	45:VH:71:GLY:N	2.38	0.56
45:VH:257:LEU:HD11	45:VH:314:SER:HB2	1.87	0.56
44:VI:143:GLY:N	46:VI:501:GTP:H5'	2.21	0.56
44:VK:332:ILE:HG23	44:VK:351:PHE:CE2	2.41	0.56
45:VN:233:MET:CA	45:VN:236:VAL:HG23	2.35	0.56
45:VN:420:SER:O	45:VN:423:GLN:HG3	2.06	0.56
44:WA:259:LEU:HD11	44:WA:378:ILE:O	2.05	0.56
44:WC:185:TYR:O	44:WC:189:LEU:N	2.28	0.56
44:WC:317:MET:HE3	44:WC:319:TYR:HE1	1.71	0.56
45:WD:19:LYS:O	45:WD:22:GLU:HB2	2.05	0.56
45:WF:163:ILE:HD13	45:WF:251:ARG:CD	2.30	0.56
44:WG:100:ALA:O	45:WH:255:VAL:HG21	2.06	0.56
44:WI:100:ALA:O	45:WJ:255:VAL:HG21	2.05	0.56
44:WI:183:GLU:HG2	44:WI:184:PRO:HD3	1.88	0.56
44:WI:204:LEU:HD22	44:WI:231:ILE:HD13	1.88	0.56
45:WJ:253:LEU:O	45:WJ:257:LEU:HD13	2.06	0.56
44:WK:123:ARG:HA	44:WK:161:TYR:OH	2.06	0.56
44:WK:161:TYR:HD2	44:WK:164:LYS:HZ1	1.54	0.56
44:WM:222:PRO:CG	45:WN:324:LYS:HD3	2.34	0.56
1:6H:376:ASP:OD1	45:FL:355:ASP:OD1	1.99	0.56
11:0Q:30:ARG:NH2	44:AA:397:LEU:HD21	2.21	0.56
15:0V:24:ARG:HH12	44:MM:430:LYS:CD	2.16	0.56
4:1C:40:TYR:HA	44:DM:79:ARG:NH2	2.13	0.56
8:1G:163:ARG:NH2	45:KD:71:GLY:HA3	2.21	0.56
26:1R:153:LYS:HE3	45:AF:75:SER:HB2	1.88	0.56
27:1W:165:ILE:HG23	45:LD:279:GLN:OE1	2.03	0.56
32:2I:129:ILE:O	44:FC:96:LYS:HE3	2.05	0.56
22:2L:870:ARG:HD2	45:CJ:357:PRO:O	2.06	0.56
26:3R:504:GLU:OE2	44:EK:39:ASP:HA	2.05	0.56
34:4F:229:ARG:CZ	44:HM:80:THR:HG21	2.35	0.56
31:4H:174:PHE:CE1	44:AI:357:TYR:HB3	2.40	0.56
37:5C:43:CYS:SG	45:KJ:391:ARG:NE	2.70	0.56
38:5H:29:LYS:HG3	38:5H:30:PRO:HD2	1.87	0.56
39:5K:41:ILE:HG23	39:5K:44:ARG:HH21	1.69	0.56
35:5R:87:LYS:HG2	35:5R:88:TYR:CD1	2.41	0.56
35:5R:285:THR:HG21	35:5R:309:LEU:HD22	1.87	0.56
36:5S:162:LEU:O	36:5S:165:ILE:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6F:26:TRP:CE3	40:6F:30:ARG:HD3	2.39	0.56
41:6G:137:GLN:HE21	44:VG:297:GLU:HG2	1.71	0.56
35:6R:465:ILE:HG22	45:FN:277:GLY:CA	2.36	0.56
35:7R:74:ILE:HD12	35:7R:74:ILE:H	1.71	0.56
35:7R:94:ARG:HD3	35:7R:184:ASP:HB2	1.87	0.56
35:7R:285:THR:O	35:7R:306:ARG:HA	2.06	0.56
35:7R:388:TYR:HA	45:EB:276:ARG:NH2	2.21	0.56
35:7R:427:GLU:HB3	35:7R:507:ARG:CG	2.36	0.56
43:8P:16:UNK:CB	44:QM:370:LYS:HE2	2.36	0.56
43:8P:122:UNK:O	43:8P:126:UNK:N	2.39	0.56
44:AA:318:MET:O	44:AA:375:VAL:HG13	2.05	0.56
45:AD:318:ARG:CD	45:AD:358:PRO:HD3	2.36	0.56
44:AE:98:ASP:OD1	44:AE:99:ALA:N	2.39	0.56
45:AF:45:GLU:OE2	45:AF:243:PRO:HD3	2.06	0.56
45:AH:267:MET:HB2	45:AH:301:CYS:SG	2.46	0.56
44:AI:40:LYS:O	44:AI:40:LYS:HG2	2.05	0.56
45:AJ:1:MET:CE	45:AJ:129:CYS:HB3	2.36	0.56
44:AK:318:MET:CE	44:AK:354:GLY:HA3	2.36	0.56
45:AL:218:THR:HG23	45:AL:219:THR:HG23	1.87	0.56
44:BA:261:PRO:HB3	45:BD:394:PHE:CD1	2.41	0.56
45:BD:17:GLY:HA2	45:BD:20:PHE:HB2	1.87	0.56
44:BE:210:TYR:CD1	45:BF:324:LYS:HD2	2.41	0.56
45:BF:134:GLN:HA	45:BF:165:GLU:O	2.06	0.56
45:BH:257:LEU:HB3	45:BH:266:PHE:CZ	2.41	0.56
44:BI:191:THR:HG21	44:BI:425:LEU:CD1	2.33	0.56
45:BJ:237:THR:HG22	45:BJ:250:LEU:HD21	1.88	0.56
45:BL:182:PRO:O	45:BL:186:THR:HG23	2.06	0.56
44:BM:237:SER:O	44:BM:318:MET:HE1	2.06	0.56
45:BN:309:ARG:HD2	45:BN:341:PHE:C	2.26	0.56
44:CA:239:THR:HB	44:CA:242:LEU:HD21	1.86	0.56
45:CB:113:ILE:CD1	45:CB:150:LEU:HD22	2.24	0.56
45:CD:2:ARG:HB2	45:CD:131:GLN:OE1	2.06	0.56
45:CD:282:ARG:HG2	45:CD:283:ALA:H	1.70	0.56
44:CE:35:GLN:NE2	44:CE:60:LYS:HG3	2.20	0.56
45:CJ:344:TRP:CE3	45:CJ:345:ILE:HB	2.41	0.56
45:CN:24:ILE:O	45:CN:27:GLU:N	2.38	0.56
45:CN:258:ILE:HG12	45:CN:264:HIS:HB3	1.87	0.56
45:DB:67:ASP:OD1	45:DB:68:LEU:N	2.38	0.56
45:DB:382:ALA:HB2	45:DB:415:MET:HE2	1.88	0.56
45:DF:149:THR:O	45:DF:152:ILE:HB	2.06	0.56
45:DF:257:LEU:HD21	45:DF:368:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:301:MET:HG3	44:DI:307:PRO:HD3	1.88	0.56
45:DJ:133:PHE:HB2	45:DJ:164:MET:HE1	1.87	0.56
45:DJ:210:ILE:CD1	45:DJ:300:MET:HG3	2.36	0.56
45:DJ:255:VAL:HA	44:DK:407:TRP:CZ3	2.40	0.56
45:DJ:289:LEU:HD22	45:DJ:365:VAL:CG2	2.36	0.56
44:DK:242:LEU:HD11	44:DK:252:ILE:HD11	1.87	0.56
45:DL:170:VAL:HG21	45:DL:378:PHE:HE1	1.70	0.56
44:DM:66:VAL:HG21	44:DM:121:ARG:HG2	1.87	0.56
45:DN:42:LEU:CA	45:DN:45:GLU:HG3	2.25	0.56
45:DN:258:ILE:HD11	45:DN:266:PHE:CZ	2.40	0.56
45:DN:295:ASP:OD1	45:DN:297:LYS:HG2	2.06	0.56
45:EB:40:SER:N	45:EB:43:GLN:OE1	2.39	0.56
45:EB:291:GLN:NE2	45:EB:292:GLN:HB2	2.21	0.56
45:ED:285:THR:HG23	45:ED:287:PRO:HD2	1.87	0.56
44:EG:241:SER:HA	44:EG:356:ASN:ND2	2.21	0.56
45:EH:378:PHE:HA	45:EH:381:VAL:CG2	2.36	0.56
45:EH:414:ASN:O	45:EH:417:ASP:HB3	2.06	0.56
44:EI:151:SER:HB2	44:EI:193:SER:OG	2.06	0.56
45:EJ:238:CYS:SG	45:EJ:239:CYS:N	2.78	0.56
44:EK:89:PRO:HB2	44:FI:280:LYS:NZ	2.21	0.56
44:EK:316:SER:CB	44:EK:352:LYS:HB3	2.36	0.56
45:EL:3:GLU:HA	45:EL:49:VAL:HG13	1.88	0.56
45:EL:210:ILE:HD11	45:EL:299:MET:O	2.06	0.56
44:EM:191:THR:CG2	44:EM:425:LEU:HD21	2.30	0.56
45:FB:396:HIS:O	45:FB:400:GLY:N	2.37	0.56
44:FC:288:VAL:HG11	44:FC:327:ASP:HB3	1.86	0.56
44:FE:238:LEU:HD21	44:FE:255:PHE:CE2	2.41	0.56
44:FI:1:MET:HB3	44:FI:2:ARG:NH1	2.17	0.56
45:FJ:73:MET:HA	45:FJ:76:VAL:HG12	1.86	0.56
44:FK:195:LEU:HD12	44:FK:266:HIS:HE2	1.71	0.56
45:FL:345:ILE:HD12	45:FL:346:PRO:HD2	1.88	0.56
44:FM:23:LEU:CD2	44:FM:236:SER:HB2	2.35	0.56
44:FM:75:ILE:HG21	44:FM:92:LEU:O	2.05	0.56
44:FM:147:SER:CB	44:FM:190:SER:HB3	2.35	0.56
44:FM:288:VAL:HA	44:FM:291:ILE:HG12	1.88	0.56
45:FN:103:LYS:CG	45:FN:108:GLU:HG2	2.36	0.56
45:FN:303:ALA:O	45:FN:305:PRO:HD3	2.05	0.56
45:GB:238:CYS:HB2	45:GB:318:ARG:NH2	2.21	0.56
45:GB:246:LEU:O	45:GB:352:SER:HB3	2.06	0.56
45:GB:256:ASN:HD22	45:GB:350:LYS:HD2	1.71	0.56
45:GB:341:PHE:HB3	45:GB:348:ASN:HD21	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:380:ARG:HA	45:GB:383:GLU:HB2	1.86	0.56
44:GC:307:PRO:HB3	44:GC:312:TYR:OH	2.05	0.56
45:GD:256:ASN:OD1	45:GD:350:LYS:HD2	2.06	0.56
45:GF:342:VAL:HG12	45:GF:345:ILE:HD13	1.88	0.56
44:GG:256:GLN:HG2	45:GJ:397:TRP:CH2	2.40	0.56
45:GH:47:ILE:HD13	45:GH:59:TYR:CE2	2.39	0.56
45:GH:240:LEU:HD12	45:GH:240:LEU:O	2.05	0.56
45:GH:263:LEU:HG	45:GH:422:TYR:CD1	2.41	0.56
44:GI:112:LYS:O	44:GI:115:VAL:HG12	2.06	0.56
45:GJ:110:ALA:O	45:GJ:113:ILE:HG22	2.05	0.56
44:GK:88:HIS:O	44:GK:91:GLN:HG2	2.06	0.56
44:GK:107:HIS:HD2	44:GK:151:SER:HB2	1.71	0.56
44:GK:171:ILE:HG23	44:GK:204:LEU:O	2.06	0.56
44:GK:348:PRO:HG2	45:GN:387:ALA:CB	2.36	0.56
45:GN:4:ILE:HD11	45:GN:134:GLN:OE1	2.06	0.56
44:HA:21:TRP:CZ2	44:HA:65:ALA:HB2	2.40	0.56
44:HA:174:SER:OG	44:HA:207:GLU:N	2.39	0.56
45:HB:52:ASN:ND2	45:HB:62:ARG:HB3	2.20	0.56
45:HB:187:LEU:HD11	45:HB:408:PHE:CE1	2.39	0.56
45:HD:145:SER:O	45:HD:149:THR:HG22	2.06	0.56
44:HG:417:GLU:O	44:HG:420:GLU:HG2	2.05	0.56
45:HH:42:LEU:HG	45:HH:45:GLU:OE2	2.06	0.56
45:HH:151:LEU:O	45:HH:155:VAL:HG23	2.06	0.56
45:HH:260:PHE:HB3	45:HH:261:PRO:HD2	1.87	0.56
45:HH:263:LEU:HG	45:HH:422:TYR:CD1	2.41	0.56
45:HJ:53:GLU:O	45:IJ:283:ALA:HB2	2.06	0.56
45:HJ:143:THR:HG22	48:HJ:501:GDP:O2B	2.06	0.56
44:HK:275:ILE:HG23	44:HK:368:LEU:CD1	2.36	0.56
44:HK:291:ILE:HD13	44:HK:373:ARG:HB3	1.88	0.56
45:HL:284:LEU:HB3	45:HL:362:LYS:CE	2.32	0.56
45:HL:334:GLN:HA	45:HL:341:PHE:CD2	2.41	0.56
44:HM:301:MET:HE2	44:HM:305:CYS:N	2.21	0.56
45:IB:3:GLU:OE2	45:IB:127:CYS:HB2	2.06	0.56
45:IB:310:TYR:HA	45:IB:371:SER:OG	2.05	0.56
44:IC:181:VAL:HG22	45:ID:256:ASN:ND2	2.21	0.56
45:ID:289:LEU:HD11	45:ID:363:MET:SD	2.46	0.56
44:IE:210:TYR:CG	45:IF:324:LYS:HD2	2.40	0.56
44:IE:269:LEU:HD12	44:IE:303:ALA:HB3	1.87	0.56
44:IG:88:HIS:HA	45:JH:281:TYR:HD2	1.70	0.56
45:IH:68:LEU:HD23	45:IH:112:LEU:HD13	1.87	0.56
45:IH:318:ARG:NH2	45:IH:358:PRO:HA	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:71:GLU:OE2	44:II:73:THR:HG23	2.05	0.56
44:II:260:VAL:CG2	45:IL:397:TRP:HZ2	2.17	0.56
44:IM:115:VAL:HG22	44:IM:119:LEU:HD23	1.87	0.56
44:IM:360:PRO:CG	44:IM:374:ALA:HB2	2.36	0.56
45:IN:318:ARG:HB2	45:IN:364:ALA:CB	2.29	0.56
44:JA:271:SER:HB2	44:JA:377:MET:SD	2.46	0.56
45:JB:8:GLN:NE2	45:JB:65:LEU:HD11	2.21	0.56
45:JB:67:ASP:OD1	45:JB:68:LEU:N	2.37	0.56
45:JB:133:PHE:HB2	45:JB:164:MET:HB3	1.86	0.56
45:JD:355:ASP:C	45:JD:356:ILE:HD12	2.27	0.56
44:JG:184:PRO:O	44:JG:188:ILE:HG12	2.06	0.56
44:JG:286:LEU:O	44:JG:373:ARG:NH2	2.39	0.56
45:JH:16:ILE:HD13	45:JH:226:ASN:OD1	2.05	0.56
44:JI:345:ASP:OD2	44:JI:439:THR:HG22	2.05	0.56
45:JJ:294:PHE:CE2	45:JJ:333:VAL:HG11	2.41	0.56
44:JK:259:LEU:HD13	44:JK:268:MET:CE	2.35	0.56
45:JL:86:ARG:NE	45:KL:281:TYR:HB3	2.21	0.56
44:JM:171:ILE:HG12	44:JM:204:LEU:CB	2.36	0.56
44:JM:244:PHE:CE1	44:JM:358:GLN:HG2	2.41	0.56
45:JN:1:MET:O	45:JN:2:ARG:HG2	2.06	0.56
45:JN:200:MET:CB	45:JN:266:PHE:HB2	2.35	0.56
45:JN:260:PHE:HB3	45:JN:261:PRO:HD2	1.87	0.56
45:JN:372:THR:HA	45:JN:422:TYR:CE2	2.35	0.56
45:KB:263:LEU:HG	45:KB:422:TYR:CE1	2.41	0.56
45:KF:270:PHE:CD2	45:KF:273:LEU:HD21	2.41	0.56
44:KI:174:SER:OG	44:KI:207:GLU:HB2	2.05	0.56
44:KI:175:PRO:HG3	44:KI:304:LYS:HG2	1.88	0.56
45:LB:294:PHE:CE2	45:LB:333:VAL:HG21	2.40	0.56
44:LE:56:THR:O	44:ME:285:GLN:HA	2.06	0.56
44:LE:203:MET:O	44:LE:303:ALA:HB2	2.06	0.56
44:LG:261:PRO:HA	45:LJ:394:PHE:CE1	2.41	0.56
44:LI:274:PRO:HB2	44:LI:276:ILE:HD11	1.87	0.56
45:LL:362:LYS:HG2	45:LL:363:MET:HE2	1.87	0.56
45:LL:390:ARG:NH1	45:LL:391:ARG:HD3	2.21	0.56
44:LM:10:GLY:O	44:LM:14:ILE:HG13	2.06	0.56
45:LN:268:ILE:HA	45:LN:367:PHE:O	2.06	0.56
44:MC:316:SER:HB2	44:MC:352:LYS:HB3	1.87	0.56
45:MF:293:MET:HE2	45:MF:367:PHE:HB3	1.86	0.56
44:MG:261:PRO:HG2	44:MG:313:MET:SD	2.46	0.56
45:MH:3:GLU:O	45:MH:130:LEU:HD12	2.05	0.56
45:MH:166:THR:O	45:MH:199:CYS:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:377:MET:O	45:MH:380:ARG:HG2	2.05	0.56
44:MI:205:ASP:OD2	44:MI:304:LYS:N	2.33	0.56
45:MJ:12:CYS:SG	45:MJ:138:SER:HB2	2.46	0.56
45:MJ:83:GLN:OE1	45:MJ:83:GLN:HA	2.05	0.56
44:MM:187:SER:OG	44:MM:188:ILE:HD12	2.06	0.56
44:MM:259:LEU:HD11	44:MM:316:SER:HB3	1.87	0.56
45:MN:21:TRP:CH2	45:MN:61:PRO:HB3	2.40	0.56
45:MN:256:ASN:C	45:MN:257:LEU:HD12	2.26	0.56
44:NA:258:ASN:HA	45:ND:179:VAL:CG2	2.33	0.56
45:NB:39:ASP:H	45:NB:43:GLN:HE22	1.54	0.56
45:NB:213:ARG:O	45:NB:216:LYS:HG3	2.05	0.56
44:NC:270:SER:CB	44:NC:378:ILE:HD13	2.36	0.56
44:NG:51:THR:HG21	44:NG:243:ARG:HB3	1.87	0.56
44:NG:209:ILE:HG12	44:NG:302:MET:HE1	1.86	0.56
44:NG:298:PRO:HG3	44:NG:308:ARG:HE	1.71	0.56
44:NI:14:ILE:HG21	44:NI:74:VAL:CG1	2.36	0.56
45:NJ:117:LEU:HB3	45:NJ:121:ARG:NH1	2.21	0.56
45:NL:7:ILE:HG21	45:NL:151:LEU:CD2	2.35	0.56
45:NL:317:PHE:HB2	45:NL:353:ILE:CD1	2.35	0.56
44:NM:191:THR:O	44:NM:195:LEU:HB2	2.06	0.56
44:OA:23:LEU:CD2	44:OA:233:GLN:HA	2.36	0.56
45:OB:273:LEU:HG	45:OB:273:LEU:O	2.06	0.56
45:OD:46:ARG:HB3	45:OD:49:VAL:CG2	2.36	0.56
44:OE:325:PRO:HA	44:OE:355:ILE:CD1	2.36	0.56
44:OG:406:HIS:CE1	45:OH:261:PRO:HA	2.41	0.56
44:OK:237:SER:HA	44:OK:320:ARG:HH12	1.67	0.56
44:OK:315:CYS:SG	44:OK:379:SER:HB3	2.45	0.56
45:OL:113:ILE:HA	45:OL:116:VAL:CG1	2.35	0.56
45:OL:257:LEU:O	45:OL:312:THR:HG21	2.06	0.56
45:OL:334:GLN:HE22	45:OL:347:ASN:N	2.03	0.56
44:OM:112:LYS:HA	44:OM:115:VAL:CG1	2.36	0.56
44:OM:221:ARG:HD2	45:ON:325:GLU:OE1	2.06	0.56
45:ON:353:ILE:O	45:ON:353:ILE:HG13	2.05	0.56
44:PA:135:PHE:HB2	44:PA:166:LYS:CG	2.33	0.56
44:PC:154:LEU:HD22	44:PC:166:LYS:HE3	1.88	0.56
44:PC:256:GLN:O	44:PC:257:THR:OG1	2.20	0.56
45:PD:3:GLU:HB2	45:PD:49:VAL:O	2.06	0.56
45:PD:47:ILE:O	45:PD:51:TYR:N	2.38	0.56
45:PD:266:PHE:CD1	45:PD:370:ASN:HB2	2.41	0.56
44:PG:269:LEU:H	44:PG:269:LEU:HD23	1.69	0.56
45:PH:86:ARG:NH2	45:QF:281:TYR:HB3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:227:HIS:O	45:PH:230:SER:HB2	2.05	0.56
45:PH:287:PRO:O	45:PH:290:THR:HG22	2.05	0.56
44:PI:67:PHE:C	44:PI:68:LEU:HD12	2.26	0.56
44:PI:311:LYS:O	44:PI:381:SER:HB2	2.05	0.56
45:PJ:7:ILE:HG12	45:PJ:64:ILE:HG21	1.87	0.56
45:PJ:256:ASN:HD22	45:PJ:350:LYS:HD2	1.71	0.56
44:PK:11:GLN:HB2	46:PK:501:GTP:O1B	2.06	0.56
44:PK:93:ILE:HD12	44:PK:93:ILE:H	1.71	0.56
44:PM:66:VAL:HG22	44:PM:68:LEU:CD1	2.36	0.56
44:PM:107:HIS:HD2	44:PM:151:SER:HB3	1.71	0.56
45:PN:70:PRO:HA	45:PN:73:MET:CG	2.36	0.56
44:QA:5:ILE:HD12	44:QA:135:PHE:HE1	1.70	0.56
44:QA:256:GLN:HB2	44:QA:260:VAL:CG2	2.36	0.56
44:QC:78:VAL:CG1	44:QC:92:LEU:HD21	2.36	0.56
44:QC:192:HIS:HA	44:QC:195:LEU:CB	2.36	0.56
44:QC:219:ILE:CG2	44:QC:222:PRO:HB3	2.36	0.56
44:QC:331:SER:O	44:QC:335:ILE:HG12	2.06	0.56
44:QE:269:LEU:HD11	44:QE:301:MET:CE	2.35	0.56
44:QE:313:MET:HE3	44:QE:382:THR:HG23	1.88	0.56
45:QF:321:MET:CE	45:QF:353:ILE:HG23	2.36	0.56
44:QG:224:TYR:O	44:QG:227:LEU:N	2.38	0.56
45:QH:47:ILE:HD13	45:QH:59:TYR:CE2	2.41	0.56
44:QK:219:ILE:HG22	44:QK:222:PRO:HD3	1.86	0.56
44:QK:265:ILE:HG23	44:QK:432:TYR:HE1	1.70	0.56
45:QN:183:TYR:OH	45:QN:388:MET:HG2	2.06	0.56
45:RB:87:PRO:HA	45:RB:90:PHE:CE2	2.40	0.56
45:RD:200:MET:HG3	45:RD:202:ILE:HG13	1.87	0.56
44:RE:1:MET:O	44:RE:131:GLY:HA3	2.06	0.56
44:RE:93:ILE:HD12	44:RE:93:ILE:H	1.71	0.56
44:RE:140:SER:HA	44:RE:171:ILE:HG12	1.86	0.56
45:RF:232:ALA:HB1	45:RF:268:ILE:HD12	1.88	0.56
44:RG:103:PHE:HD1	44:RG:147:SER:HB2	1.70	0.56
44:RG:112:LYS:O	44:RG:115:VAL:HG12	2.06	0.56
44:RG:209:ILE:HA	44:RG:212:ILE:CG2	2.34	0.56
44:RG:268:MET:CE	44:RG:380:ASN:HB2	2.35	0.56
45:RH:42:LEU:HA	45:RH:45:GLU:CG	2.29	0.56
45:RH:238:CYS:HB2	45:RH:318:ARG:CZ	2.35	0.56
44:RI:377:MET:O	44:RI:378:ILE:HD13	2.06	0.56
44:RI:387:VAL:HG12	44:RI:390:ARG:HH11	1.71	0.56
45:RJ:7:ILE:HD11	45:RJ:151:LEU:HD22	1.87	0.56
45:RJ:248:SER:OG	45:RJ:253:LEU:HD12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:169:VAL:CG2	45:SD:202:ILE:HB	2.30	0.56
44:SE:5:ILE:HD12	44:SE:132:LEU:CD1	2.36	0.56
44:SE:56:THR:HG23	44:SE:58:ALA:H	1.70	0.56
44:SG:278:ALA:HB1	44:SG:282:TYR:HE2	1.71	0.56
44:SG:428:LEU:HG	44:SG:432:TYR:HE2	1.70	0.56
44:SI:172:TYR:HB3	44:SI:173:PRO:HD2	1.87	0.56
44:SI:238:LEU:O	44:SI:238:LEU:HD23	2.05	0.56
45:SJ:259:PRO:HA	44:SK:404:PHE:CE1	2.40	0.56
44:SK:66:VAL:HG22	44:SK:68:LEU:CD1	2.36	0.56
44:SK:68:LEU:HD21	44:SK:118:CYS:CB	2.36	0.56
45:SL:100:ASN:HD21	45:SL:401:GLU:CD	2.07	0.56
44:SM:183:GLU:N	44:SM:184:PRO:HD2	2.21	0.56
44:TA:88:HIS:CE1	44:TA:90:GLU:HG2	2.41	0.56
45:TF:131:GLN:O	45:TF:163:ILE:HG12	2.06	0.56
44:TG:108:TYR:HD1	44:TG:112:LYS:HE3	1.70	0.56
44:TG:225:THR:HA	44:TG:228:ASN:HD22	1.70	0.56
45:TH:45:GLU:O	45:TH:46:ARG:NH1	2.33	0.56
44:TI:14:ILE:HD11	44:TI:69:ASP:HB2	1.87	0.56
44:TI:169:PHE:HA	44:TI:202:VAL:HG22	1.88	0.56
44:TI:250:VAL:HG11	44:TI:318:MET:CE	2.36	0.56
44:TK:194:LEU:HB2	44:TK:198:THR:OG1	2.06	0.56
45:TL:248:SER:OG	45:TL:252:LYS:HD2	2.05	0.56
45:TN:274:THR:HG23	45:TN:279:GLN:CB	2.36	0.56
44:UA:203:MET:CG	44:UA:303:ALA:HB2	2.36	0.56
44:UA:285:GLN:HG3	44:UA:287:SER:HB2	1.88	0.56
44:UA:313:MET:HE3	44:UA:344:VAL:HG21	1.88	0.56
45:UF:141:GLY:HA3	48:UF:501:GDP:O3A	2.06	0.56
45:UF:256:ASN:O	44:UG:181:VAL:HG21	2.05	0.56
45:UF:281:TYR:HB3	45:UF:282:ARG:HH21	1.71	0.56
45:UH:248:SER:OG	45:UH:253:LEU:HD12	2.06	0.56
44:UK:89:PRO:HD3	44:VI:280:LYS:HZ3	1.70	0.56
45:UL:100:ASN:ND2	45:UL:102:ALA:HB3	2.21	0.56
45:UL:270:PHE:CD2	45:UL:273:LEU:HD21	2.41	0.56
44:UM:270:SER:HA	44:UM:378:ILE:CA	2.20	0.56
44:VA:257:THR:HG22	45:VD:397:TRP:CE2	2.41	0.56
44:VC:259:LEU:HD11	44:VC:378:ILE:CG2	2.36	0.56
44:VC:296:PHE:CD2	44:VC:341:ILE:HD13	2.40	0.56
44:VE:221:ARG:CZ	45:VF:322:SER:HB2	2.35	0.56
45:VF:21:TRP:HZ2	45:VF:63:ALA:HB2	1.71	0.56
44:VG:209:ILE:HD11	44:VG:302:MET:SD	2.46	0.56
45:VH:193:VAL:HA	45:VH:264:HIS:NE2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:309:ARG:NH2	45:VH:342:VAL:HG23	2.21	0.56
44:VI:88:HIS:HB3	44:VI:91:GLN:CG	2.36	0.56
44:VI:265:ILE:HD12	44:VI:435:VAL:HG21	1.88	0.56
45:VJ:330:MET:O	45:VJ:333:VAL:HB	2.06	0.56
45:VL:252:LYS:HG2	45:VL:350:LYS:NZ	2.21	0.56
44:VM:32:PRO:HB3	44:VM:83:TYR:CE1	2.40	0.56
44:VM:394:LYS:HZ3	45:VN:346:PRO:HB2	1.71	0.56
45:VN:342:VAL:HG13	45:VN:345:ILE:HG22	1.88	0.56
45:WB:6:HIS:CE1	45:WB:134:GLN:HE21	2.24	0.56
45:WB:375:GLN:O	45:WB:379:LYS:N	2.37	0.56
44:WC:14:ILE:HD11	44:WC:68:LEU:O	2.06	0.56
44:WC:39:ASP:OD1	44:WC:40:LYS:N	2.38	0.56
45:WD:238:CYS:HB2	45:WD:318:ARG:NH2	2.20	0.56
45:WD:290:THR:HG21	45:WD:329:GLN:OE1	2.06	0.56
44:WE:290:GLU:CA	44:WE:293:ASN:HB2	2.33	0.56
44:WI:6:SER:HB2	44:WI:136:LEU:HB2	1.88	0.56
45:WJ:145:SER:HB2	45:WJ:188:SER:CB	2.29	0.56
45:WJ:231:ALA:HB1	45:WJ:270:PHE:CE2	2.40	0.56
45:WL:221:THR:HG22	45:WL:224:ASP:OD2	2.06	0.56
5:0D:107:VAL:CG2	44:DC:35:GLN:HE21	2.19	0.56
8:0G:178:LYS:HD3	44:LM:329:ASN:HB3	1.87	0.56
15:0V:98:LEU:HB3	44:LM:402:ARG:NH2	2.21	0.56
19:1I:11:TYR:HE2	45:ID:48:ASN:HA	1.70	0.56
26:1R:192:ILE:N	44:AC:39:ASP:OD2	2.38	0.56
26:1R:300:LYS:NZ	44:CC:245:ASP:OD1	2.38	0.56
27:1W:235:THR:HB	45:LB:280:GLN:HG2	1.87	0.56
28:2C:68:ASN:ND2	44:LI:80:THR:O	2.39	0.56
21:2K:295:MET:HG3	45:GL:280:GLN:NE2	2.19	0.56
24:2O:257:GLN:CB	44:UI:58:ALA:HB3	2.35	0.56
27:2W:248:GLN:CG	35:6R:17:PHE:CZ	2.89	0.56
31:3H:186:CYS:HB3	45:AH:279:GLN:NE2	2.08	0.56
26:3R:70:THR:CG2	45:ML:320:ARG:HG3	2.33	0.56
12:3S:97:ARG:HA	45:MN:262:ARG:NH2	2.20	0.56
14:3U:238:SER:O	45:WN:31:ASP:HB3	2.06	0.56
15:3V:38:PHE:HD2	44:MA:177:VAL:HG21	1.69	0.56
16:3X:70:TYR:CD1	45:MN:362:LYS:HG3	2.41	0.56
16:3X:135:ARG:HH22	45:ML:276:ARG:HD2	1.69	0.56
31:4H:183:PHE:HB3	45:AL:227:HIS:CG	2.41	0.56
37:5D:46:ILE:HG21	44:KK:434:GLU:HG2	1.86	0.56
37:5D:59:TYR:O	45:KN:385:PHE:HB2	2.05	0.56
11:5Q:15:TYR:HA	11:5Q:164:ARG:HH11	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:301:PRO:CD	45:CJ:74:ASP:HB3	2.36	0.56
35:5R:453:ILE:HG21	35:5R:498:LEU:CD1	2.36	0.56
35:5R:586:TYR:CZ	35:5R:590:ARG:HD2	2.40	0.56
36:5S:189:VAL:O	36:5S:192:MET:HG2	2.06	0.56
40:6F:44:ARG:O	40:6F:45:LYS:HB2	2.06	0.56
40:6F:107:ILE:HG22	44:JE:279:GLU:HG2	1.86	0.56
35:6R:247:LYS:NZ	35:6R:283:ASP:OD2	2.37	0.56
35:6R:278:TYR:OH	35:6R:283:ASP:OD1	2.21	0.56
35:7R:94:ARG:HG3	35:7R:184:ASP:HB2	1.88	0.56
35:7R:471:LEU:C	45:EB:78:ALA:HB1	2.25	0.56
35:7R:508:ALA:HB3	35:7R:513:HIS:NE2	2.21	0.56
45:AB:131:GLN:C	45:AB:162:ARG:HD3	2.26	0.56
44:AC:288:VAL:HG11	44:AC:327:ASP:CB	2.35	0.56
45:AD:42:LEU:HA	45:AD:45:GLU:CG	2.35	0.56
45:AD:86:ARG:NH1	45:BD:281:TYR:HB3	2.21	0.56
45:AD:163:ILE:HG13	45:AD:164:MET:H	1.70	0.56
44:AE:3:GLU:HG3	44:AE:129:CYS:SG	2.46	0.56
45:AF:236:VAL:HG12	45:AF:250:LEU:CD2	2.36	0.56
45:AH:32:PRO:HB3	45:AH:81:PHE:HD1	1.70	0.56
44:AI:262:TYR:HB3	44:AI:263:PRO:HD2	1.89	0.56
44:AI:305:CYS:SG	44:AI:383:ALA:HB1	2.46	0.56
45:AN:256:ASN:ND2	45:AN:350:LYS:HD3	2.21	0.56
44:BA:6:SER:HA	44:BA:136:LEU:O	2.06	0.56
44:BC:56:THR:OG1	44:CC:282:TYR:O	2.23	0.56
44:BC:294:SER:HA	44:BC:297:GLU:HG3	1.88	0.56
45:BD:127:CYS:SG	45:BD:130:LEU:HB2	2.45	0.56
45:BF:46:ARG:HB2	45:BF:241:ARG:HB2	1.87	0.56
44:BG:32:PRO:HB3	44:BG:83:TYR:CE1	2.40	0.56
44:BI:55:GLU:HG3	44:BI:57:GLY:H	1.71	0.56
44:BI:276:ILE:CD1	44:BI:280:LYS:HG3	2.36	0.56
45:BJ:20:PHE:CE2	45:BJ:24:ILE:HG13	2.41	0.56
45:BJ:103:LYS:HA	45:BJ:107:THR:OG1	2.05	0.56
45:BJ:175:VAL:O	45:BJ:175:VAL:HG23	2.06	0.56
45:BL:217:LEU:O	45:BL:217:LEU:HD12	2.06	0.56
44:CA:420:GLU:O	44:CA:423:GLU:HB2	2.06	0.56
45:CB:294:PHE:HE2	45:CB:333:VAL:HG21	1.71	0.56
44:CC:144:GLY:HA2	44:CC:147:SER:OG	2.06	0.56
45:CD:65:LEU:HD11	45:CD:85:PHE:CD2	2.41	0.56
45:CJ:247:ASN:O	45:CJ:252:LYS:NZ	2.30	0.56
44:CK:70:LEU:HD13	44:CK:110:ILE:CD1	2.35	0.56
44:CK:257:THR:HA	45:CL:397:TRP:HE1	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:97:ALA:HB3	45:CL:143:THR:HB	1.86	0.56
45:CL:101:TRP:CZ2	45:CL:187:LEU:HB3	2.41	0.56
45:CL:269:GLY:N	45:CL:367:PHE:O	2.38	0.56
44:CM:4:VAL:H	44:CM:51:THR:HG23	1.71	0.56
44:CM:271:SER:OG	44:CM:301:MET:SD	2.63	0.56
45:CN:211:CYS:CA	45:CN:215:LEU:HB2	2.25	0.56
44:DA:115:VAL:HG21	44:DA:156:ARG:HD2	1.86	0.56
44:DA:155:GLU:HA	44:DA:158:SER:OG	2.06	0.56
44:DA:271:SER:HA	44:DA:302:MET:HG2	1.87	0.56
44:DA:319:TYR:CE2	44:DA:328:VAL:HG22	2.41	0.56
45:DB:50:TYR:CE2	45:DB:237:THR:HG21	2.41	0.56
46:DB:502:GTP:O4'	44:DC:140:SER:HB2	2.06	0.56
46:DB:502:GTP:C4'	44:DC:140:SER:HB2	2.36	0.56
45:DD:217:LEU:O	45:DD:217:LEU:HD12	2.06	0.56
45:DD:347:ASN:ND2	44:DE:178:SER:HB3	2.20	0.56
45:DH:324:LYS:HD2	44:DI:210:TYR:CD1	2.41	0.56
45:DL:410:GLU:O	45:DL:413:SER:OG	2.09	0.56
44:DM:62:VAL:HG21	44:EM:283:HIS:O	2.06	0.56
44:EA:257:THR:HA	45:EB:397:TRP:CZ3	2.41	0.56
44:EA:326:LYS:HG2	45:EB:220:PRO:HD2	1.88	0.56
44:EA:408:TYR:O	44:EA:413:MET:HG2	2.06	0.56
45:EB:256:ASN:ND2	45:EB:350:LYS:HE3	2.21	0.56
45:EB:257:LEU:HD23	45:EB:266:PHE:CE2	2.41	0.56
44:EC:27:GLU:HB2	44:EC:361:THR:HG21	1.87	0.56
44:EC:422:ARG:HH12	44:EC:426:ALA:HB2	1.71	0.56
45:ED:207:LEU:HB3	45:ED:225:LEU:HD22	1.88	0.56
44:EE:167:LEU:HD22	44:EE:252:ILE:HD11	1.87	0.56
45:EF:170:VAL:HG21	45:EF:377:MET:CE	2.35	0.56
45:EJ:47:ILE:HD13	45:EJ:59:TYR:CE2	2.40	0.56
45:EJ:101:TRP:HE1	45:EJ:146:GLY:HA2	1.69	0.56
45:EJ:246:LEU:HD21	46:EK:501:GTP:C8	2.41	0.56
45:EJ:268:ILE:HB	45:EJ:367:PHE:O	2.06	0.56
45:EJ:294:PHE:CE2	45:EJ:333:VAL:HG11	2.41	0.56
45:EL:161:ASP:OD2	45:EL:162:ARG:NH1	2.39	0.56
45:EL:313:ALA:HB3	45:EL:349:ILE:CG1	2.35	0.56
44:EM:10:GLY:O	44:EM:14:ILE:N	2.36	0.56
44:FA:91:GLN:HG2	44:FA:121:ARG:CD	2.36	0.56
44:FA:241:SER:OG	44:FA:250:VAL:O	2.16	0.56
44:FA:385:ALA:HA	44:FA:388:PHE:HD2	1.69	0.56
45:FB:24:ILE:HA	45:FB:27:GLU:HG3	1.87	0.56
45:FB:207:LEU:CB	45:FB:225:LEU:HD13	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:286:VAL:HB	45:FB:287:PRO:HD3	1.86	0.56
45:FB:320:ARG:HG3	45:FB:355:ASP:O	2.06	0.56
44:FC:317:MET:HG3	44:FC:377:MET:CB	2.36	0.56
45:FF:165:GLU:OE2	45:FF:250:LEU:HD22	2.06	0.56
44:FG:50:ASN:HA	44:FG:53:PHE:O	2.06	0.56
44:FG:102:ASN:CG	44:FG:105:ARG:HG3	2.27	0.56
45:FH:113:ILE:CA	45:FH:116:VAL:HG12	2.36	0.56
44:FK:35:GLN:O	44:FK:35:GLN:HG2	2.05	0.56
44:FK:91:GLN:CB	44:FK:121:ARG:HD2	2.36	0.56
44:FK:210:TYR:CE1	44:FK:227:LEU:HD11	2.42	0.56
45:FL:396:HIS:O	45:FL:400:GLY:N	2.38	0.56
44:FM:259:LEU:HD23	44:FM:314:ALA:HB1	1.88	0.56
44:FM:407:TRP:CZ3	45:FN:255:VAL:HA	2.41	0.56
45:FN:86:ARG:NH1	45:GN:281:TYR:HB2	2.21	0.56
44:GA:138:PHE:CD2	44:GA:169:PHE:HB2	2.41	0.56
44:GA:394:LYS:HA	44:GA:397:LEU:HD12	1.88	0.56
44:GA:404:PHE:CE2	45:GB:259:PRO:HA	2.40	0.56
45:GB:310:TYR:O	45:GB:311:LEU:HD23	2.06	0.56
44:GC:320:ARG:HH22	44:GC:360:PRO:HA	1.70	0.56
45:GD:19:LYS:HA	45:GD:22:GLU:HG2	1.88	0.56
44:GE:48:ALA:HB1	44:GE:244:PHE:HE1	1.70	0.56
45:GF:193:VAL:HA	45:GF:264:HIS:HE1	1.70	0.56
45:GF:239:CYS:SG	45:GF:316:LEU:HD23	2.45	0.56
44:GG:16:VAL:HA	44:GG:228:ASN:HD21	1.70	0.56
45:GH:259:PRO:HB2	45:GH:260:PHE:HD2	1.69	0.56
44:GK:105:ARG:HA	44:GK:109:THR:CB	2.32	0.56
44:GK:347:CYS:HA	45:GN:388:MET:HE2	1.87	0.56
45:GL:22:GLU:HG2	45:GL:81:PHE:CD2	2.40	0.56
45:GL:113:ILE:HG12	45:GL:154:LYS:HZ1	1.70	0.56
45:GL:187:LEU:HD11	45:GL:408:PHE:CE1	2.40	0.56
45:GN:134:GLN:O	45:GN:135:ILE:HD13	2.06	0.56
45:GN:172:SER:OG	45:GN:175:VAL:HG22	2.06	0.56
45:GN:178:THR:OG1	45:GN:181:GLU:HG3	2.06	0.56
45:HB:65:LEU:HD22	45:HB:90:PHE:CE1	2.41	0.56
44:HC:101:ASN:HA	44:HC:144:GLY:HA3	1.88	0.56
44:HC:111:GLY:CA	44:HC:149:LEU:HD21	2.36	0.56
44:HC:288:VAL:HA	44:HC:291:ILE:CG1	2.36	0.56
45:HD:180:VAL:CG2	45:HD:183:TYR:HB2	2.31	0.56
44:HE:99:ALA:CB	44:HE:145:THR:HB	2.35	0.56
44:HE:257:THR:HG23	45:HH:397:TRP:CZ2	2.41	0.56
45:HF:20:PHE:HA	45:HF:23:VAL:CG1	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HF:101:TRP:CZ2	45:HF:149:THR:HG21	2.39	0.56
45:HF:182:PRO:HG2	45:HF:388:MET:HE1	1.88	0.56
45:HF:349:ILE:HG13	45:HF:349:ILE:O	2.05	0.56
45:HH:107:THR:HG23	45:HH:108:GLU:H	1.70	0.56
45:HJ:193:VAL:HG23	45:HJ:264:HIS:CE1	2.40	0.56
44:IA:238:LEU:HD21	44:IA:255:PHE:HE2	1.70	0.56
44:IA:325:PRO:O	44:IA:328:VAL:HB	2.05	0.56
44:IC:115:VAL:O	44:IC:119:LEU:HD23	2.05	0.56
45:ID:217:LEU:HD11	45:ID:220:PRO:HG3	1.88	0.56
44:IE:9:VAL:HG22	44:IE:68:LEU:HB2	1.88	0.56
45:IF:113:ILE:CD1	45:IF:150:LEU:HD22	2.36	0.56
45:IF:326:VAL:O	45:IF:330:MET:HG2	2.05	0.56
44:IG:407:TRP:CZ3	45:IH:255:VAL:HA	2.41	0.56
44:IK:67:PHE:O	44:IK:68:LEU:HD22	2.06	0.56
44:IK:89:PRO:HD3	45:JL:281:TYR:CE1	2.41	0.56
44:IK:222:PRO:HG2	45:IL:324:LYS:HD3	1.88	0.56
45:IN:12:CYS:O	45:IN:16:ILE:HD12	2.06	0.56
45:IN:112:LEU:HD23	45:IN:112:LEU:O	2.05	0.56
44:JA:390:ARG:HG3	44:JA:391:LEU:HD22	1.88	0.56
45:JB:355:ASP:O	45:JB:356:ILE:HD13	2.06	0.56
44:JC:123:ARG:HH11	44:JC:123:ARG:HG3	1.71	0.56
44:JC:315:CYS:SG	44:JC:379:SER:HB2	2.45	0.56
44:JE:11:GLN:HE22	45:JF:246:LEU:HA	1.71	0.56
44:JG:340:THR:HG23	44:JG:341:ILE:HG13	1.86	0.56
44:JG:372:MET:O	44:JG:373:ARG:HB3	2.06	0.56
45:JH:32:PRO:HG3	45:JH:81:PHE:CE1	2.35	0.56
45:JH:36:TYR:HE2	45:JH:44:LEU:HD11	1.70	0.56
44:JI:250:VAL:HG22	44:JI:352:LYS:HZ3	1.69	0.56
44:JI:288:VAL:HG11	44:JI:327:ASP:CB	2.34	0.56
45:JJ:169:VAL:HA	45:JJ:202:ILE:O	2.06	0.56
45:JL:3:GLU:HG3	45:JL:62:ARG:NH1	2.15	0.56
44:JM:237:SER:HB2	44:JM:320:ARG:HH12	1.71	0.56
44:KA:72:PRO:HG2	45:KB:1:MET:CE	2.36	0.56
45:KB:103:LYS:O	45:KB:108:GLU:N	2.27	0.56
45:KB:169:VAL:HG22	45:KB:202:ILE:HG21	1.87	0.56
45:KB:207:LEU:O	45:KB:210:ILE:N	2.38	0.56
44:KC:73:THR:CB	45:KD:247:ASN:HD21	2.17	0.56
44:KE:88:HIS:HB3	44:KE:91:GLN:CB	2.35	0.56
45:KH:161:ASP:O	45:KH:162:ARG:HD3	2.05	0.56
45:KH:166:THR:OG1	45:KH:199:CYS:HA	2.05	0.56
45:KH:206:ALA:HB1	45:KH:300:MET:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:289:ALA:O	44:KK:292:THR:HG22	2.05	0.56
45:KL:324:LYS:O	45:KL:328:GLU:HG2	2.06	0.56
44:KM:5:ILE:CG2	44:KM:125:LEU:HD23	2.35	0.56
44:LA:221:ARG:HD2	45:LB:325:GLU:OE2	2.06	0.56
44:LC:13:GLY:HA2	44:LC:16:VAL:HG12	1.87	0.56
44:LC:288:VAL:HG11	44:LC:327:ASP:HB3	1.87	0.56
45:LF:217:LEU:HD11	45:LF:220:PRO:CG	2.36	0.56
44:LG:101:ASN:OD1	45:LH:252:LYS:HD2	2.05	0.56
44:LG:270:SER:O	44:LG:302:MET:HB3	2.05	0.56
44:LG:348:PRO:CG	45:LJ:384:GLN:HE22	2.05	0.56
44:LI:287:SER:O	44:LI:291:ILE:HG23	2.05	0.56
45:LJ:100:ASN:OD1	45:LJ:102:ALA:HB3	2.06	0.56
44:LK:72:PRO:HG2	45:LL:1:MET:HE3	1.88	0.56
45:LL:162:ARG:NE	45:LL:162:ARG:HA	2.21	0.56
45:LL:405:GLU:HG3	45:LL:406:MET:CE	2.36	0.56
44:LM:54:SER:CB	44:LM:64:ARG:HH12	2.19	0.56
44:LM:191:THR:HG21	44:LM:388:PHE:CZ	2.41	0.56
44:MA:214:ARG:NH1	44:MA:215:ARG:HG2	2.22	0.56
44:MA:268:MET:HB2	44:MA:380:ASN:HA	1.87	0.56
45:MB:210:ILE:HG12	45:MB:297:LYS:O	2.06	0.56
44:MC:131:GLY:O	44:MC:133:GLN:NE2	2.39	0.56
44:MC:258:ASN:C	44:MC:259:LEU:HD22	2.26	0.56
44:MG:145:THR:N	46:MG:501:GTP:O2G	2.38	0.56
45:MH:72:THR:HG23	45:MH:73:MET:HG2	1.87	0.56
44:MI:170:THR:HG21	44:MI:194:LEU:CD2	2.36	0.56
45:MJ:12:CYS:CB	45:MJ:138:SER:HB2	2.35	0.56
44:MK:272:TYR:CE1	44:MK:275:ILE:HD11	2.41	0.56
44:NA:20:CYS:HA	44:NA:232:ALA:CB	2.36	0.56
45:NB:31:ASP:HB2	45:NB:32:PRO:HD2	1.88	0.56
45:ND:262:ARG:HG2	45:ND:418:LEU:HD13	1.87	0.56
44:NE:356:ASN:OD1	44:NE:358:GLN:N	2.38	0.56
44:NG:247:ALA:HB1	45:NJ:222:TYR:CD2	2.41	0.56
45:NJ:18:ALA:HB2	45:NJ:76:VAL:HG21	1.88	0.56
44:NK:21:TRP:CZ3	44:NK:63:PRO:HB3	2.41	0.56
44:NK:141:VAL:HG11	44:NK:172:TYR:CD1	2.39	0.56
45:NL:97:ALA:CB	45:NL:143:THR:HG22	2.36	0.56
44:NM:115:VAL:HG12	44:NM:153:LEU:HD21	1.88	0.56
45:NN:193:VAL:HA	45:NN:264:HIS:NE2	2.21	0.56
44:OC:229:ARG:HH11	44:OC:363:VAL:HG11	1.71	0.56
45:OD:36:TYR:CE2	45:OD:44:LEU:HD11	2.41	0.56
45:OD:321:MET:CE	45:OD:363:MET:HG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:88:HIS:ND1	44:OE:90:GLU:HG3	2.21	0.56
44:OE:238:LEU:O	44:OE:238:LEU:HD23	2.05	0.56
44:OE:313:MET:HB2	44:OE:346:TRP:CZ2	2.40	0.56
44:OE:318:MET:O	44:OE:375:VAL:HG23	2.05	0.56
45:OF:8:GLN:OE1	45:OF:17:GLY:HA3	2.06	0.56
45:OF:139:LEU:O	45:OF:145:SER:OG	2.22	0.56
44:OG:167:LEU:HD23	44:OG:200:VAL:CG2	2.36	0.56
44:OG:224:TYR:HB3	46:OG:501:GTP:O6	2.06	0.56
44:OG:320:ARG:NH1	44:OG:360:PRO:HA	2.20	0.56
44:OG:326:LYS:HB2	45:OJ:220:PRO:HG2	1.87	0.56
44:OI:4:VAL:HG13	44:OI:134:GLY:O	2.06	0.56
44:OI:228:ASN:O	44:OI:231:ILE:HG22	2.06	0.56
45:OJ:3:GLU:HG3	45:OJ:62:ARG:HH12	1.71	0.56
45:OJ:162:ARG:HA	45:OJ:162:ARG:NE	2.20	0.56
45:OJ:404:ASP:N	45:OJ:407:GLU:OE2	2.38	0.56
44:OK:210:TYR:CE1	44:OK:227:LEU:HD11	2.36	0.56
44:OK:288:VAL:CA	44:OK:291:ILE:HG22	2.35	0.56
44:OK:390:ARG:HG3	44:OK:391:LEU:HD12	1.88	0.56
44:OK:414:GLU:OE1	44:OK:416:GLY:N	2.39	0.56
45:ON:66:MET:CE	45:ON:147:MET:HB3	2.36	0.56
45:ON:285:THR:N	45:ON:288:GLU:HB2	2.14	0.56
44:PA:175:PRO:HG2	44:PA:304:LYS:HG2	1.87	0.56
44:PA:306:ASP:HB3	44:PA:309:HIS:CG	2.41	0.56
44:PC:74:VAL:O	44:PC:78:VAL:HG23	2.06	0.56
44:PC:261:PRO:HG2	44:PC:313:MET:HE2	1.88	0.56
44:PC:352:LYS:CD	45:PF:178:THR:HA	2.36	0.56
44:PC:435:VAL:HG23	45:PF:391:ARG:HH22	1.70	0.56
44:PE:136:LEU:CD2	44:PE:167:LEU:HD22	2.35	0.56
44:PG:3:GLU:HB3	44:PG:64:ARG:NH1	2.21	0.56
44:PG:377:MET:O	44:PG:378:ILE:HD13	2.06	0.56
45:PH:11:GLN:O	45:PH:14:ASN:HB2	2.06	0.56
44:PI:2:ARG:NH2	44:PI:243:ARG:HA	2.07	0.56
45:PJ:45:GLU:OE1	45:PJ:46:ARG:HG2	2.06	0.56
45:PJ:119:VAL:CA	45:PJ:122:LYS:HZ3	2.17	0.56
44:PK:10:GLY:O	44:PK:14:ILE:N	2.29	0.56
45:QB:8:GLN:HG3	45:QB:136:THR:OG1	2.06	0.56
45:QB:215:LEU:O	45:QB:216:LYS:HG2	2.04	0.56
45:QB:217:LEU:HD12	45:QB:217:LEU:O	2.06	0.56
44:QC:1:MET:CE	44:QC:131:GLY:HA2	2.36	0.56
44:QC:205:ASP:O	44:QC:209:ILE:HG23	2.06	0.56
45:QD:69:GLU:OE2	45:QD:72:THR:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:259:LEU:HD11	44:QE:316:SER:HB3	1.88	0.56
45:QF:3:GLU:HB3	45:QF:49:VAL:HA	1.88	0.56
45:QF:112:LEU:O	45:QF:112:LEU:HD23	2.05	0.56
44:QG:143:GLY:HA3	46:QG:501:GTP:PB	2.46	0.56
45:QH:330:MET:O	45:QH:333:VAL:HG22	2.05	0.56
44:QI:183:GLU:N	44:QI:184:PRO:HD2	2.21	0.56
45:QJ:260:PHE:HB3	45:QJ:261:PRO:CD	2.36	0.56
44:QK:387:VAL:HA	44:QK:390:ARG:HH11	1.71	0.56
45:QL:1:MET:O	45:QL:2:ARG:HG2	2.06	0.56
44:QM:183:GLU:HG2	44:QM:184:PRO:CD	2.36	0.56
44:QM:316:SER:HA	44:QM:352:LYS:O	2.06	0.56
45:QN:55:THR:OG1	45:RN:280:GLN:HA	2.06	0.56
45:QN:68:LEU:CD1	45:QN:112:LEU:HD13	2.36	0.56
44:RA:105:ARG:O	44:RA:110:ILE:HG12	2.05	0.56
45:RB:51:TYR:HB3	45:RB:59:TYR:HB3	1.88	0.56
45:RB:167:PHE:HA	45:RB:200:MET:SD	2.45	0.56
45:RB:257:LEU:HD12	45:RB:314:SER:HB3	1.88	0.56
45:RF:165:GLU:OE2	45:RF:250:LEU:HB3	2.05	0.56
44:RG:183:GLU:HA	44:RG:186:ASN:OD1	2.04	0.56
44:RG:328:VAL:HG12	44:RG:332:ILE:HD11	1.88	0.56
45:RJ:7:ILE:CG2	45:RJ:135:ILE:HA	2.35	0.56
44:RK:62:VAL:HG21	44:SK:283:HIS:O	2.05	0.56
44:RK:174:SER:CB	44:RK:207:GLU:HB2	2.36	0.56
45:RL:61:PRO:HG2	45:RL:85:PHE:HD1	1.71	0.56
44:RM:298:PRO:HB3	44:RM:307:PRO:CD	2.36	0.56
44:SA:119:LEU:CD2	44:SA:156:ARG:HD3	2.36	0.56
45:SB:49:VAL:HG12	45:SB:50:TYR:CD1	2.41	0.56
45:SB:54:ALA:HB2	45:TB:283:ALA:HB2	1.86	0.56
45:SB:169:VAL:HG13	45:SB:202:ILE:O	2.05	0.56
45:SB:271:ALA:HB1	45:SB:292:GLN:HG3	1.88	0.56
45:SB:311:LEU:H	45:SB:371:SER:HA	1.70	0.56
44:SC:226:ASN:O	44:SC:230:LEU:HD23	2.06	0.56
45:SD:311:LEU:HD23	45:SD:342:VAL:HB	1.88	0.56
45:SD:324:LYS:HD3	44:SE:222:PRO:CD	2.36	0.56
44:SE:169:PHE:CE1	44:SE:202:VAL:HG21	2.41	0.56
44:SE:329:ASN:HB3	45:SF:175:VAL:CG1	2.36	0.56
45:SF:325:GLU:HA	45:SF:328:GLU:CG	2.35	0.56
44:SG:155:GLU:HG2	44:SG:197:HIS:CE1	2.40	0.56
45:SH:161:ASP:OD1	45:SH:162:ARG:N	2.39	0.56
44:SM:332:ILE:O	44:SM:336:LYS:N	2.23	0.56
44:TA:171:ILE:HG21	46:TA:501:GTP:C2	2.42	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:271:SER:HB2	44:TA:377:MET:HE2	1.88	0.56
45:TB:303:ALA:HB1	45:TB:373:ALA:C	2.26	0.56
44:TC:84:ARG:HH12	44:TC:85:GLN:HG2	1.68	0.56
45:TD:389:PHE:CE2	45:TD:392:LYS:HE3	2.41	0.56
44:TE:21:TRP:CZ2	44:TE:65:ALA:HB2	2.41	0.56
44:TE:170:THR:HG21	44:TE:194:LEU:CD2	2.36	0.56
44:TE:201:ALA:O	44:TE:267:PHE:HA	2.06	0.56
45:TH:49:VAL:HG12	45:TH:50:TYR:CD2	2.40	0.56
44:TI:209:ILE:CG2	44:TI:227:LEU:HD22	2.36	0.56
45:TL:361:LEU:C	45:TL:362:LYS:HD3	2.25	0.56
44:TM:93:ILE:H	44:TM:93:ILE:HD12	1.70	0.56
44:TM:301:MET:HE3	44:TM:307:PRO:HG3	1.88	0.56
45:TN:42:LEU:HB3	45:TN:242:PHE:HD1	1.71	0.56
44:UA:194:LEU:HB2	44:UA:198:THR:OG1	2.06	0.56
44:UA:311:LYS:HB3	44:UA:344:VAL:HG12	1.88	0.56
45:UB:326:VAL:O	45:UB:330:MET:HB2	2.05	0.56
45:UD:200:MET:SD	45:UD:268:ILE:HG12	2.46	0.56
44:UE:326:LYS:CE	45:UF:219:THR:HG22	2.36	0.56
44:UG:88:HIS:ND1	44:UG:90:GLU:HG2	2.20	0.56
44:UG:143:GLY:HA2	46:UG:501:GTP:O1G	2.06	0.56
44:UG:185:TYR:HE1	44:UG:398:MET:HB2	1.70	0.56
44:UG:269:LEU:HD23	44:UG:269:LEU:H	1.71	0.56
45:UH:45:GLU:C	45:UH:46:ARG:HD3	2.25	0.56
45:UJ:187:LEU:HD23	45:UJ:411:ALA:HB2	1.86	0.56
45:UJ:387:ALA:O	45:UJ:390:ARG:HG2	2.05	0.56
45:UJ:403:MET:HE1	45:UJ:407:GLU:HB2	1.88	0.56
44:UK:49:PHE:HE2	44:UK:55:GLU:HB2	1.71	0.56
44:UM:47:ASP:HA	44:UM:49:PHE:CE1	2.40	0.56
44:UM:67:PHE:C	44:UM:68:LEU:HD12	2.26	0.56
45:UN:325:GLU:HA	45:UN:328:GLU:HG2	1.88	0.56
44:VA:387:VAL:HG12	44:VA:390:ARG:HH11	1.69	0.56
45:VD:247:ASN:O	45:VD:252:LYS:NZ	2.25	0.56
45:VD:309:ARG:O	45:VD:372:THR:HG23	2.06	0.56
44:VE:319:TYR:HB3	44:VE:323:VAL:HG11	1.88	0.56
45:VF:274:THR:HG21	45:VF:279:GLN:HG3	1.87	0.56
45:VH:263:LEU:HD23	45:VH:422:TYR:CE1	2.41	0.56
44:VI:5:ILE:O	44:VI:135:PHE:HA	2.07	0.56
44:VI:395:PHE:O	44:VI:398:MET:HB2	2.06	0.56
45:VJ:200:MET:HE3	45:VJ:266:PHE:HB2	1.85	0.56
44:VK:63:PRO:HD2	44:VK:87:PHE:HA	1.88	0.56
45:VL:140:GLY:O	45:VL:184:ASN:ND2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:152:ILE:HG23	45:VN:164:MET:HE3	1.87	0.56
45:VN:202:ILE:HG21	45:VN:229:VAL:CG2	2.35	0.56
45:VN:246:LEU:H	45:VN:353:ILE:HB	1.70	0.56
45:WB:2:ARG:C	45:WB:131:GLN:HB2	2.27	0.56
44:WC:245:ASP:OD1	44:WC:246:GLY:N	2.39	0.56
45:WD:268:ILE:HG22	45:WD:368:VAL:HG22	1.88	0.56
45:WD:376:GLU:CG	45:WD:380:ARG:HH21	2.19	0.56
45:WF:24:ILE:HG22	45:WF:51:TYR:HE2	1.71	0.56
45:WF:185:ALA:O	45:WF:189:VAL:HG23	2.06	0.56
44:WG:97:GLU:HG3	44:WG:105:ARG:HH12	1.70	0.56
44:WG:103:PHE:HB2	44:WG:186:ASN:CB	2.36	0.56
44:WI:100:ALA:HB1	45:WJ:251:ARG:HG3	1.87	0.56
44:WK:231:ILE:O	44:WK:234:VAL:HB	2.05	0.56
44:WK:271:SER:OG	44:WK:301:MET:HA	2.06	0.56
44:WK:408:TYR:HD2	44:WK:418:PHE:HZ	1.53	0.56
44:WM:316:SER:HB3	44:WM:378:ILE:HB	1.87	0.56
44:WM:425:LEU:HA	44:WM:428:LEU:HB3	1.87	0.56
45:WN:68:LEU:HD23	45:WN:97:ALA:HB2	1.87	0.56
45:WN:163:ILE:HG23	45:WN:251:ARG:NH1	2.21	0.56
1:6H:364:ARG:NH2	45:FL:224:ASP:OD2	2.37	0.55
4:0C:86:LYS:HE3	45:EH:42:LEU:HD22	1.87	0.55
5:0D:93:GLN:NE2	44:EC:31:GLN:HA	2.21	0.55
8:1G:91:VAL:HA	45:JB:361:LEU:HD23	1.87	0.55
9:1H:253:LEU:CD1	44:HE:26:LEU:HD11	2.35	0.55
13:1T:152:PRO:HG2	45:MF:406:MET:HG2	1.87	0.55
15:1V:72:GLY:HA2	45:MJ:340:TYR:CE2	2.39	0.55
28:2C:263:ILE:HD13	44:KI:365:GLY:HA2	1.86	0.55
32:2I:52:ASP:HB3	45:GH:306:ARG:HH21	1.72	0.55
21:2K:346:ILE:HG21	45:GJ:362:LYS:HD3	1.87	0.55
21:2K:379:ARG:NH1	44:GG:282:TYR:HB2	2.21	0.55
26:3R:85:THR:HG22	44:MK:84:ARG:NH2	2.19	0.55
15:3V:156:LEU:HD13	44:MC:386:GLU:OE2	2.05	0.55
16:3X:8:TYR:CE1	44:MM:357:TYR:HB3	2.41	0.55
39:5K:93:ASP:HB2	39:5K:96:SER:OG	2.06	0.55
35:5R:379:LYS:HD2	35:5R:380:ARG:N	2.20	0.55
35:5R:425:ARG:HD2	44:EI:40:LYS:HD2	1.89	0.55
35:5R:584:GLU:O	35:5R:588:LEU:HD23	2.06	0.55
36:5S:190:MET:HA	36:5S:190:MET:HE2	1.87	0.55
41:6G:230:TYR:CZ	44:UE:119:LEU:HB3	2.40	0.55
35:7R:33:LEU:HD21	35:7R:36:ASN:N	2.22	0.55
44:AA:70:LEU:HB3	44:AA:97:GLU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:239:THR:CB	44:AA:243:ARG:HH12	2.19	0.55
45:AB:421:GLU:HA	45:AB:424:GLN:CG	2.36	0.55
45:AD:245:GLN:C	45:AD:246:LEU:HD12	2.27	0.55
44:AE:384:ILE:HG23	44:AE:432:TYR:CE2	2.40	0.55
44:AG:188:ILE:HG21	44:AG:395:PHE:CE2	2.41	0.55
44:AI:295:ALA:HB1	44:AI:377:MET:HE1	1.87	0.55
45:AJ:405:GLU:OE1	45:AJ:405:GLU:N	2.31	0.55
44:AM:5:ILE:O	44:AM:135:PHE:HA	2.06	0.55
44:AM:318:MET:O	44:AM:375:VAL:HA	2.06	0.55
45:AN:127:CYS:SG	45:AN:130:LEU:HD13	2.46	0.55
44:BC:106:GLY:O	44:BC:149:LEU:HD22	2.06	0.55
45:BD:204:ASN:HD22	45:BD:207:LEU:HD12	1.70	0.55
44:BE:73:THR:HG1	45:BF:2:ARG:NH2	2.04	0.55
44:BE:237:SER:HA	44:BE:320:ARG:NH2	2.20	0.55
45:BF:187:LEU:HD21	45:BF:408:PHE:CE1	2.41	0.55
45:BH:238:CYS:HB2	45:BH:318:ARG:HH11	1.71	0.55
44:BI:221:ARG:NH2	45:BJ:321:MET:HB2	2.19	0.55
44:BI:261:PRO:HA	45:BL:394:PHE:CD1	2.40	0.55
44:BM:297:GLU:CD	44:BM:299:ALA:H	2.09	0.55
45:BN:355:ASP:O	45:BN:356:ILE:HD13	2.06	0.55
45:CB:9:GLY:O	45:CB:13:GLY:HA3	2.06	0.55
45:CB:63:ALA:O	45:CB:89:ASN:ND2	2.37	0.55
45:CB:130:LEU:CD2	45:CB:162:ARG:HG3	2.36	0.55
45:CB:286:VAL:CB	45:CB:325:GLU:HG2	2.34	0.55
44:CE:10:GLY:HA2	44:CE:145:THR:CG2	2.36	0.55
44:CE:172:TYR:HD2	44:CE:203:MET:SD	2.29	0.55
44:CE:256:GLN:HA	44:CE:259:LEU:CD2	2.36	0.55
45:CF:51:TYR:CE1	45:CF:61:PRO:HG3	2.41	0.55
45:CF:237:THR:HG23	45:CF:241:ARG:NH2	2.16	0.55
44:CI:150:GLY:O	44:CI:154:LEU:HD23	2.05	0.55
44:CK:304:LYS:CG	44:CK:387:VAL:HG11	2.36	0.55
45:CL:282:ARG:NH2	45:CL:292:GLN:OE1	2.39	0.55
45:CL:387:ALA:O	45:CL:390:ARG:HG2	2.05	0.55
45:CN:268:ILE:HG13	45:CN:300:MET:CE	2.35	0.55
44:DA:104:ALA:HB2	44:DA:413:MET:CE	2.36	0.55
45:DB:3:GLU:HA	45:DB:49:VAL:HG23	1.88	0.55
45:DB:163:ILE:HA	45:DB:197:ASP:OD2	2.05	0.55
44:DC:169:PHE:CE1	44:DC:202:VAL:HG21	2.40	0.55
44:DC:428:LEU:HG	44:DC:432:TYR:HE2	1.70	0.55
45:DF:192:LEU:CD1	45:DF:196:ALA:HB2	2.36	0.55
44:DG:271:SER:HB2	44:DG:377:MET:HE2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:363:VAL:HG13	44:DG:363:VAL:O	2.06	0.55
45:DH:134:GLN:HA	45:DH:165:GLU:CB	2.35	0.55
45:DH:294:PHE:CE2	45:DH:333:VAL:HG11	2.42	0.55
45:DH:317:PHE:CE2	45:DH:326:VAL:HG13	2.41	0.55
44:DK:183:GLU:HG2	44:DK:184:PRO:CD	2.35	0.55
44:DK:278:ALA:HB2	44:DK:369:ALA:CB	2.36	0.55
44:DK:311:LYS:O	44:DK:382:THR:HG23	2.06	0.55
44:DK:417:GLU:O	44:DK:420:GLU:HG2	2.07	0.55
44:DM:36:MET:HE1	44:DM:38:SER:HA	1.88	0.55
44:DM:115:VAL:HG11	44:DM:156:ARG:HD2	1.88	0.55
44:DM:141:VAL:HG11	44:DM:172:TYR:HD1	1.70	0.55
44:EC:10:GLY:O	44:EC:14:ILE:HG13	2.06	0.55
44:EC:183:GLU:O	44:EC:187:SER:HB2	2.06	0.55
45:ED:217:LEU:HD11	45:ED:220:PRO:CG	2.35	0.55
44:EE:183:GLU:HG2	44:EE:184:PRO:CD	2.36	0.55
44:EE:231:ILE:O	44:EE:234:VAL:HB	2.06	0.55
45:EF:8:GLN:NE2	45:EF:14:ASN:HA	2.21	0.55
45:EF:133:PHE:O	45:EF:165:GLU:HB2	2.06	0.55
45:EF:248:SER:CB	45:EF:252:LYS:HD2	2.36	0.55
44:EG:156:ARG:HG3	44:EG:156:ARG:HH11	1.69	0.55
45:EH:246:LEU:HA	44:EI:11:GLN:HE22	1.70	0.55
44:EI:108:TYR:HE2	44:EI:413:MET:HG3	1.70	0.55
45:EJ:257:LEU:O	45:EJ:259:PRO:HD3	2.05	0.55
45:EL:374:ILE:HD11	45:EL:422:TYR:CZ	2.41	0.55
44:EM:10:GLY:O	44:EM:13:GLY:N	2.39	0.55
44:EM:268:MET:HG3	44:EM:378:ILE:HG22	1.87	0.55
44:EM:270:SER:CB	44:EM:378:ILE:HD13	2.36	0.55
45:EN:113:ILE:HD13	45:EN:150:LEU:CD2	2.36	0.55
44:FA:270:SER:HB2	44:FA:378:ILE:HD13	1.88	0.55
45:FB:231:ALA:HB1	45:FB:270:PHE:CE1	2.42	0.55
44:FC:209:ILE:CG2	44:FC:227:LEU:HD22	2.36	0.55
44:FE:60:LYS:HD2	44:FE:85:GLN:NE2	2.21	0.55
44:FE:132:LEU:HD23	44:FE:164:LYS:HE2	1.88	0.55
44:FE:434:GLU:HA	44:FE:437:ILE:CD1	2.36	0.55
45:FH:33:THR:HG21	45:FH:58:ARG:HH22	1.71	0.55
45:FH:99:ASN:HA	45:FH:142:GLY:CA	2.33	0.55
44:FI:323:VAL:CG2	44:FI:373:ARG:HH22	2.18	0.55
45:FL:3:GLU:OE2	45:FL:127:CYS:HB2	2.06	0.55
45:FN:110:ALA:CA	45:FN:113:ILE:HG22	2.29	0.55
45:FN:169:VAL:HG22	45:FN:202:ILE:CG2	2.35	0.55
45:FN:210:ILE:HA	45:FN:214:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:256:ASN:O	45:FN:312:THR:OG1	2.24	0.55
44:GA:21:TRP:CZ2	44:GA:65:ALA:HB2	2.41	0.55
44:GC:104:ALA:O	44:GC:108:TYR:N	2.30	0.55
44:GE:317:MET:O	44:GE:318:MET:HE2	2.05	0.55
45:GF:416:ASN:O	45:GF:419:VAL:HG12	2.07	0.55
44:GG:115:VAL:HG22	44:GG:119:LEU:HD23	1.87	0.55
45:GH:185:ALA:O	45:GH:188:SER:OG	2.19	0.55
44:GI:250:VAL:HB	44:GI:352:LYS:NZ	2.21	0.55
45:GL:325:GLU:HA	45:GL:328:GLU:HG2	1.88	0.55
44:GM:11:GLN:O	44:GM:15:GLN:HG3	2.06	0.55
44:GM:150:GLY:O	44:GM:154:LEU:HG	2.05	0.55
44:HA:225:THR:O	44:HA:229:ARG:HG3	2.05	0.55
45:HB:256:ASN:CB	45:HB:350:LYS:HD2	2.36	0.55
44:HC:210:TYR:HE2	45:HD:324:LYS:HA	1.71	0.55
45:HF:7:ILE:HB	45:HF:135:ILE:CD1	2.35	0.55
45:HH:257:LEU:HA	45:HH:312:THR:CG2	2.35	0.55
44:HI:384:ILE:O	44:HI:387:VAL:HG22	2.05	0.55
45:HJ:103:LYS:HG3	45:HJ:108:GLU:CG	2.35	0.55
44:HK:259:LEU:HD11	44:HK:378:ILE:O	2.05	0.55
45:HL:7:ILE:O	45:HL:135:ILE:HG23	2.06	0.55
45:HL:192:LEU:HG	45:HL:196:ALA:CB	2.35	0.55
44:IA:370:LYS:C	44:IA:370:LYS:HD2	2.26	0.55
45:IB:163:ILE:CD1	45:IB:250:LEU:HB2	2.36	0.55
44:IC:14:ILE:HD11	44:IC:69:ASP:HB2	1.87	0.55
44:II:265:ILE:HD12	44:II:432:TYR:CD1	2.41	0.55
44:IK:107:HIS:CD2	44:IK:152:LEU:HB2	2.40	0.55
45:IL:51:TYR:CE1	45:IL:61:PRO:HG3	2.38	0.55
45:IL:193:VAL:HA	45:IL:264:HIS:HE2	1.70	0.55
45:IN:156:ARG:CB	45:IN:195:ASN:HD21	2.17	0.55
45:IN:242:PHE:CG	45:IN:356:ILE:HG13	2.41	0.55
44:JA:278:ALA:N	44:JA:369:ALA:HB2	2.21	0.55
45:JB:141:GLY:HA3	48:JB:501:GDP:O3A	2.05	0.55
45:JB:285:THR:OG1	45:JB:287:PRO:HD2	2.05	0.55
45:JB:326:VAL:HG22	45:JB:330:MET:HE1	1.88	0.55
44:JC:8:HIS:CD2	44:JC:138:PHE:HD1	2.24	0.55
44:JC:107:HIS:O	44:JC:107:HIS:ND1	2.39	0.55
44:JC:319:TYR:CE1	44:JC:375:VAL:HB	2.41	0.55
44:JG:72:PRO:CD	45:JH:2:ARG:HH22	2.18	0.55
44:JG:288:VAL:O	44:JG:291:ILE:HG12	2.06	0.55
45:JJ:187:LEU:HD23	45:JJ:411:ALA:HB3	1.88	0.55
44:JM:15:GLN:OE1	44:JM:15:GLN:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:262:TYR:HE1	45:KD:393:ALA:HA	1.70	0.55
44:KE:428:LEU:HA	44:KE:431:ASP:OD2	2.06	0.55
44:KG:258:ASN:C	44:KG:259:LEU:HD22	2.26	0.55
45:KJ:310:TYR:HB2	45:KJ:341:PHE:CD2	2.41	0.55
44:KK:176:GLN:HG2	44:KK:177:VAL:N	2.20	0.55
44:LA:349:THR:HG21	45:LD:176:SER:OG	2.06	0.55
45:LB:49:VAL:HB	45:LB:241:ARG:HD3	1.88	0.55
45:LB:199:CYS:HB2	45:LB:265:PHE:CD1	2.40	0.55
45:LD:108:GLU:O	45:LD:111:GLU:HG3	2.07	0.55
45:LD:352:SER:O	45:LD:353:ILE:HD13	2.06	0.55
44:LE:187:SER:O	44:LE:190:SER:OG	2.14	0.55
44:LE:363:VAL:CG1	44:LE:364:PRO:HD2	2.36	0.55
45:LF:62:ARG:HH22	45:LF:127:CYS:HA	1.70	0.55
45:LF:113:ILE:HD13	45:LF:150:LEU:CD2	2.27	0.55
44:LG:188:ILE:CG2	44:LG:425:LEU:HD11	2.34	0.55
44:LG:345:ASP:OD1	44:LG:346:TRP:N	2.38	0.55
44:LI:236:SER:O	44:LI:240:ALA:N	2.39	0.55
44:LI:315:CYS:HB3	44:LI:351:PHE:CE1	2.40	0.55
45:LJ:171:PRO:HB2	45:LJ:181:GLU:OE1	2.07	0.55
45:LL:379:LYS:HA	45:LL:382:ALA:HB3	1.88	0.55
44:LM:188:ILE:HG23	44:LM:425:LEU:HD11	1.89	0.55
45:LN:105:HIS:ND1	45:LN:150:LEU:HD12	2.21	0.55
44:MA:70:LEU:HG	44:MA:145:THR:OG1	2.05	0.55
45:MB:23:VAL:O	45:MB:27:GLU:N	2.34	0.55
45:MB:325:GLU:HG3	45:MB:328:GLU:OE2	2.06	0.55
44:MC:183:GLU:N	44:MC:184:PRO:HD2	2.21	0.55
44:MC:188:ILE:HG21	44:MC:395:PHE:CE1	2.41	0.55
44:ME:292:THR:HG21	44:ME:331:SER:HB3	1.88	0.55
44:MG:316:SER:HB2	44:MG:352:LYS:HB3	1.86	0.55
44:MI:98:ASP:OD1	44:MI:99:ALA:N	2.39	0.55
44:MK:288:VAL:HA	44:MK:291:ILE:CG1	2.34	0.55
44:MM:209:ILE:O	44:MM:212:ILE:HG22	2.05	0.55
44:NA:324:VAL:HG13	44:NA:325:PRO:HD2	1.88	0.55
45:NB:7:ILE:CG2	45:NB:135:ILE:HD11	2.35	0.55
44:NC:326:LYS:CE	45:NF:220:PRO:HD2	2.33	0.55
45:ND:122:LYS:HA	45:ND:125:GLU:OE2	2.05	0.55
45:ND:372:THR:O	45:ND:375:GLN:HG2	2.05	0.55
44:NE:270:SER:O	44:NE:301:MET:HE3	2.06	0.55
45:NF:95:THR:HG21	45:NF:108:GLU:CD	2.27	0.55
45:NF:131:GLN:HE22	45:NF:251:ARG:HG3	1.71	0.55
45:NF:191:GLN:HG3	45:NF:195:ASN:ND2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:202:ILE:HD11	45:NF:268:ILE:CG1	2.35	0.55
44:NG:161:TYR:HB3	44:NG:164:LYS:CE	2.35	0.55
44:NG:205:ASP:OD1	44:NG:205:ASP:N	2.39	0.55
45:NJ:116:VAL:O	45:NJ:120:VAL:HG12	2.06	0.55
45:NN:268:ILE:HA	45:NN:367:PHE:O	2.06	0.55
45:NN:342:VAL:HG12	45:NN:345:ILE:HG22	1.88	0.55
44:OA:154:LEU:HD13	44:OA:194:LEU:HB3	1.87	0.55
44:OC:3:GLU:OE1	44:OC:132:LEU:HA	2.06	0.55
44:OC:276:ILE:HG23	44:OC:280:LYS:CE	2.20	0.55
44:OC:310:GLY:N	44:OC:383:ALA:HB2	2.20	0.55
44:OC:321:GLY:N	44:OC:358:GLN:O	2.39	0.55
45:OD:290:THR:HG21	45:OD:329:GLN:HG2	1.87	0.55
45:OD:316:LEU:C	45:OD:365:VAL:HG23	2.26	0.55
45:OF:222:TYR:HD1	45:OF:225:LEU:HD12	1.71	0.55
45:OF:265:PHE:HE2	45:OF:418:LEU:HD21	1.69	0.55
44:OG:141:VAL:HG12	44:OG:171:ILE:O	2.06	0.55
45:OH:316:LEU:HD13	45:OH:352:SER:HB2	1.88	0.55
44:OI:106:GLY:O	44:OI:149:LEU:HD12	2.06	0.55
44:OI:115:VAL:HG21	44:OI:152:LEU:HD23	1.87	0.55
44:OI:329:ASN:HB3	45:OL:175:VAL:HG12	1.87	0.55
45:OJ:178:THR:CB	45:OJ:181:GLU:HG3	2.31	0.55
44:OK:265:ILE:HG22	44:OK:380:ASN:HD21	1.70	0.55
44:OK:288:VAL:HG11	44:OK:327:ASP:CB	2.26	0.55
44:OK:328:VAL:O	44:OK:332:ILE:HG12	2.06	0.55
44:OK:399:TYR:O	44:OK:402:ARG:HD3	2.06	0.55
44:OM:6:SER:O	44:OM:7:ILE:HD13	2.05	0.55
44:OM:9:VAL:HG21	44:OM:150:GLY:H	1.70	0.55
44:OM:181:VAL:CG1	45:ON:256:ASN:HA	2.36	0.55
44:PC:261:PRO:HG2	44:PC:313:MET:HE3	1.87	0.55
45:PD:73:MET:O	45:PD:76:VAL:HG12	2.06	0.55
45:PD:175:VAL:O	45:PD:175:VAL:HG23	2.07	0.55
45:PD:200:MET:HG2	45:PD:266:PHE:HB2	1.87	0.55
44:PG:2:ARG:HB2	44:PG:133:GLN:NE2	2.20	0.55
44:PG:71:GLU:OE2	44:PG:73:THR:OG1	2.18	0.55
45:PH:103:LYS:HG3	45:PH:108:GLU:CG	2.36	0.55
45:PH:310:TYR:HE1	45:PH:371:SER:HB2	1.71	0.55
45:PJ:180:VAL:O	45:PJ:180:VAL:HG22	2.05	0.55
44:PK:104:ALA:HB2	44:PK:413:MET:CG	2.36	0.55
44:PM:32:PRO:HB3	44:PM:83:TYR:CE1	2.41	0.55
44:PM:71:GLU:OE1	44:PM:74:VAL:N	2.32	0.55
44:QA:248:LEU:HD21	44:QA:353:VAL:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:316:LEU:HG	45:QB:352:SER:HB2	1.87	0.55
44:QC:213:CYS:O	44:QC:217:LEU:HB2	2.05	0.55
44:QC:320:ARG:NH2	44:QC:360:PRO:HA	2.20	0.55
44:QE:287:SER:O	44:QE:291:ILE:HG23	2.05	0.55
45:QF:175:VAL:O	45:QF:175:VAL:HG23	2.06	0.55
44:QG:4:VAL:HG23	44:QG:134:GLY:O	2.06	0.55
44:QG:183:GLU:N	44:QG:184:PRO:HD2	2.20	0.55
44:QG:290:GLU:O	44:QG:293:ASN:HB2	2.06	0.55
45:QH:10:GLY:O	45:QH:13:GLY:N	2.39	0.55
45:QH:110:ALA:O	45:QH:113:ILE:HG22	2.06	0.55
45:QL:138:SER:CB	45:QL:169:VAL:HB	2.35	0.55
44:QM:310:GLY:N	44:QM:383:ALA:HB2	2.21	0.55
44:QM:433:GLU:O	44:QM:437:ILE:HG23	2.06	0.55
45:RB:237:THR:HG23	45:RB:241:ARG:NE	2.21	0.55
45:RB:309:ARG:NH2	45:RB:426:GLN:O	2.40	0.55
44:RC:285:GLN:HG3	44:RC:287:SER:H	1.71	0.55
44:RE:183:GLU:HG2	44:RE:184:PRO:HD3	1.88	0.55
44:RE:384:ILE:HG21	44:RE:432:TYR:CE1	2.41	0.55
45:RF:130:LEU:HB3	45:RF:162:ARG:CD	2.34	0.55
44:RK:239:THR:HG22	44:RK:252:ILE:CD1	2.25	0.55
44:RK:387:VAL:HA	44:RK:390:ARG:CG	2.36	0.55
45:RL:256:ASN:ND2	45:RL:350:LYS:HD2	2.11	0.55
44:RM:254:GLU:CG	45:RN:98:GLY:HA2	2.34	0.55
45:RN:141:GLY:HA3	48:RN:501:GDP:O3A	2.06	0.55
44:SA:7:ILE:HG12	44:SA:136:LEU:O	2.05	0.55
45:SB:259:PRO:HG2	45:SB:263:LEU:HD22	1.88	0.55
44:SC:123:ARG:HG3	44:SC:123:ARG:HH11	1.72	0.55
44:SC:183:GLU:HG2	44:SC:184:PRO:HD3	1.88	0.55
45:SF:12:CYS:SG	45:SF:138:SER:HB2	2.47	0.55
45:SF:255:VAL:HG11	44:SG:100:ALA:O	2.05	0.55
45:SH:60:VAL:CG1	45:SH:86:ARG:HH22	2.19	0.55
45:SH:403:MET:HE2	45:SH:407:GLU:OE2	2.06	0.55
44:SI:428:LEU:HG	44:SI:432:TYR:HE2	1.71	0.55
45:SJ:376:GLU:CG	45:SJ:380:ARG:HH21	2.18	0.55
45:SJ:382:ALA:O	45:SJ:386:THR:HG23	2.06	0.55
45:SL:312:THR:HG1	45:SL:348:ASN:HB2	1.71	0.55
44:SM:52:PHE:C	44:SM:53:PHE:HB3	2.26	0.55
44:SM:153:LEU:O	44:SM:156:ARG:HG3	2.06	0.55
45:SN:100:ASN:HB3	45:SN:103:LYS:CE	2.36	0.55
45:SN:103:LYS:HB3	45:SN:401:GLU:OE1	2.06	0.55
44:TA:320:ARG:HA	44:TA:356:ASN:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:212:PHE:O	45:TB:216:LYS:HA	2.04	0.55
44:TC:187:SER:HA	44:TC:190:SER:HG	1.71	0.55
44:TC:247:ALA:HB3	44:TC:355:ILE:CD1	2.34	0.55
45:TD:8:GLN:NE2	45:TD:65:LEU:HG	2.21	0.55
44:TE:135:PHE:CB	44:TE:166:LYS:HG2	2.36	0.55
44:TE:151:SER:CB	44:TE:193:SER:HG	2.16	0.55
44:TG:270:SER:O	44:TG:302:MET:HB2	2.05	0.55
45:TH:134:GLN:O	45:TH:134:GLN:HG3	2.06	0.55
45:TH:220:PRO:HA	45:TH:224:ASP:OD2	2.05	0.55
45:TJ:133:PHE:O	45:TJ:165:GLU:HB2	2.06	0.55
45:TJ:284:LEU:HB3	45:TJ:363:MET:CE	2.36	0.55
45:TJ:287:PRO:HA	45:TJ:290:THR:CG2	2.35	0.55
45:TJ:420:SER:HA	45:TJ:423:GLN:CG	2.35	0.55
44:TK:315:CYS:SG	44:TK:379:SER:OG	2.64	0.55
44:UA:141:VAL:HG11	44:UA:172:TYR:HA	1.87	0.55
44:UA:174:SER:OG	44:UA:207:GLU:HB2	2.06	0.55
45:UD:318:ARG:NH1	45:UD:358:PRO:HG3	2.21	0.55
44:UE:91:GLN:HE22	44:UE:125:LEU:HD11	1.72	0.55
44:UE:439:THR:HG21	45:UF:390:ARG:CD	2.32	0.55
44:UG:4:VAL:HG23	44:UG:134:GLY:C	2.26	0.55
45:UH:256:ASN:O	45:UH:257:LEU:HD12	2.06	0.55
45:UH:334:GLN:OE1	45:UH:349:ILE:HD12	2.07	0.55
44:UI:1:MET:SD	45:UJ:70:PRO:HG2	2.45	0.55
44:UI:118:CYS:O	44:UI:122:ILE:HG12	2.06	0.55
44:UI:183:GLU:O	44:UI:185:TYR:N	2.39	0.55
44:UK:14:ILE:HD11	44:UK:69:ASP:CB	2.30	0.55
44:UK:345:ASP:HB2	44:UK:438:GLU:HG3	1.86	0.55
45:UL:269:GLY:HA2	45:UL:300:MET:CE	2.36	0.55
44:UM:265:ILE:HG12	44:UM:432:TYR:HE1	1.69	0.55
44:VA:63:PRO:CG	44:VA:86:LEU:HG	2.34	0.55
44:VA:269:LEU:H	44:VA:269:LEU:HD23	1.71	0.55
45:VB:334:GLN:HB2	45:VB:349:ILE:HD11	1.88	0.55
44:VC:311:LYS:HB2	44:VC:344:VAL:HG22	1.87	0.55
45:VD:203:ASP:OD1	45:VD:205:GLU:N	2.38	0.55
45:VF:2:ARG:HG3	45:VF:240:LEU:HD11	1.88	0.55
44:VG:60:LYS:HD3	44:WG:283:HIS:CE1	2.41	0.55
44:VG:229:ARG:HG2	44:VG:363:VAL:HG11	1.87	0.55
44:VG:298:PRO:HA	44:VG:301:MET:SD	2.46	0.55
45:VH:100:ASN:HB3	45:VH:103:LYS:HB2	1.87	0.55
45:VH:183:TYR:CE2	45:VH:388:MET:HE3	2.41	0.55
44:VI:146:GLY:N	46:VI:501:GTP:O1B	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:146:GLY:H	46:VI:501:GTP:PB	2.28	0.55
44:VI:314:ALA:H	44:VI:380:ASN:HB3	1.72	0.55
45:VL:25:SER:HB2	45:VL:81:PHE:HE2	1.70	0.55
44:WC:16:VAL:O	44:WC:20:CYS:N	2.39	0.55
44:WE:172:TYR:HD2	44:WE:203:MET:SD	2.29	0.55
45:WF:257:LEU:HD21	45:WF:314:SER:OG	2.06	0.55
45:WH:16:ILE:HG13	45:WH:226:ASN:OD1	2.06	0.55
45:WH:67:ASP:OD2	45:WH:72:THR:OG1	2.23	0.55
44:WI:33:ASP:HB3	44:WI:35:GLN:NE2	2.22	0.55
44:WI:200:VAL:HG13	44:WI:268:MET:SD	2.46	0.55
45:WJ:166:THR:OG1	45:WJ:198:GLU:O	2.23	0.55
44:WK:11:GLN:OE1	44:WK:11:GLN:N	2.39	0.55
44:WK:140:SER:OG	46:WK:501:GTP:O2B	2.24	0.55
45:WL:260:PHE:HB3	45:WL:261:PRO:HD2	1.88	0.55
45:WL:315:ALA:N	45:WL:350:LYS:O	2.39	0.55
44:WM:3:GLU:O	44:WM:132:LEU:HA	2.06	0.55
44:WM:210:TYR:CE2	45:WN:324:LYS:HG3	2.40	0.55
44:WM:317:MET:CE	44:WM:375:VAL:HG13	2.36	0.55
45:WN:152:ILE:O	45:WN:156:ARG:HG2	2.06	0.55
45:WN:198:GLU:OE2	45:WN:254:ALA:HB2	2.06	0.55
8:1G:155:PRO:HG3	44:KA:31:GLN:HA	1.88	0.55
8:1G:178:LYS:HE2	44:LA:330:ALA:HA	1.88	0.55
24:1O:185:ARG:NH2	45:UD:276:ARG:O	2.37	0.55
12:1S:17:LYS:NZ	45:WF:90:PHE:HB2	2.21	0.55
2:2A:74:SER:HA	44:AI:219:ILE:HD11	1.88	0.55
24:2O:156:ARG:CD	44:VK:279:GLU:HG2	2.37	0.55
12:2S:146:LYS:HA	44:WG:123:ARG:NH2	2.12	0.55
15:2V:46:PRO:CD	44:LE:114:ILE:HD11	2.35	0.55
15:2V:225:THR:HA	45:VH:77:ARG:HD2	1.88	0.55
32:3I:206:GLN:HA	44:GK:308:ARG:NH1	2.21	0.55
35:5R:12:LEU:HB3	35:5R:13:PRO:HD2	1.88	0.55
35:5R:96:TYR:HB2	35:5R:181:VAL:CG1	2.37	0.55
35:5R:478:ASN:HB3	35:5R:481:ASN:CG	2.26	0.55
35:6R:12:LEU:HB2	35:6R:15:HIS:CD2	2.40	0.55
35:6R:404:LEU:CD1	45:DN:77:ARG:HD2	2.30	0.55
35:7R:388:TYR:CE2	35:7R:390:GLY:HA2	2.40	0.55
43:8R:143:UNK:HB1	45:PJ:362:LYS:HE3	1.87	0.55
44:AA:276:ILE:HD13	44:AA:286:LEU:HD11	1.88	0.55
45:AB:245:GLN:C	45:AB:246:LEU:HD12	2.26	0.55
45:AB:378:PHE:HB3	45:AB:415:MET:HE3	1.88	0.55
44:AC:3:GLU:HG3	44:AC:129:CYS:SG	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:26:LEU:O	44:AC:26:LEU:HD23	2.05	0.55
44:AC:155:GLU:HG2	44:AC:197:HIS:NE2	2.20	0.55
44:AC:177:VAL:CG2	45:AD:331:LEU:HD22	2.35	0.55
44:AG:91:GLN:HG3	44:AG:92:LEU:HD12	1.89	0.55
45:AH:130:LEU:HD11	45:AH:133:PHE:HE1	1.71	0.55
45:AJ:214:THR:O	45:AJ:216:LYS:HG3	2.07	0.55
45:AJ:251:ARG:O	45:AJ:255:VAL:HG23	2.06	0.55
44:AK:69:ASP:OD2	44:AK:74:VAL:HG21	2.06	0.55
45:AL:319:GLY:HA2	45:AL:357:PRO:HG3	1.88	0.55
45:AN:97:ALA:CB	45:AN:143:THR:HB	2.37	0.55
44:BA:20:CYS:HA	44:BA:232:ALA:HB1	1.87	0.55
44:BA:207:GLU:OE2	44:BA:304:LYS:HE3	2.06	0.55
44:BA:296:PHE:CD2	44:BA:335:ILE:HD12	2.42	0.55
44:BC:172:TYR:HD1	44:BC:203:MET:SD	2.29	0.55
44:BC:208:ALA:O	44:BC:212:ILE:HG12	2.06	0.55
45:BD:65:LEU:HD21	45:BD:85:PHE:CE2	2.40	0.55
45:BD:372:THR:HA	45:BD:422:TYR:CE1	2.41	0.55
44:BE:172:TYR:HB3	44:BE:173:PRO:HD2	1.88	0.55
44:BE:178:SER:OG	45:BF:347:ASN:HB3	2.06	0.55
45:BF:141:GLY:HA3	48:BF:502:GDP:PA	2.46	0.55
44:BG:88:HIS:O	44:BG:89:PRO:HG2	2.07	0.55
44:BG:205:ASP:OD2	44:BG:304:LYS:N	2.34	0.55
44:BG:439:THR:HB	45:BJ:390:ARG:NH2	2.21	0.55
45:BH:242:PHE:CG	45:BH:356:ILE:HG13	2.41	0.55
44:BI:141:VAL:HG12	44:BI:171:ILE:O	2.06	0.55
45:BJ:237:THR:HG1	45:BJ:241:ARG:HH12	1.49	0.55
45:BL:150:LEU:HD12	45:BL:153:SER:OG	2.07	0.55
44:BM:344:VAL:HG11	44:BM:346:TRP:CE2	2.41	0.55
44:BM:386:GLU:O	44:BM:390:ARG:HG2	2.06	0.55
44:CA:260:VAL:HB	45:CB:397:TRP:HZ2	1.69	0.55
45:CB:52:ASN:HD21	45:CB:62:ARG:HB3	1.72	0.55
45:CB:164:MET:CB	45:CB:197:ASP:H	2.19	0.55
44:CC:31:GLN:HB2	44:CC:32:PRO:CD	2.36	0.55
44:CC:171:ILE:HG13	44:CC:204:LEU:HB2	1.89	0.55
44:CC:195:LEU:HD21	44:CC:264:ARG:NH2	2.21	0.55
45:CD:3:GLU:HG3	45:CD:62:ARG:NH2	2.21	0.55
45:CD:105:HIS:ND1	45:CD:150:LEU:HD12	2.21	0.55
45:CD:113:ILE:CD1	45:CD:150:LEU:HD22	2.36	0.55
44:CE:19:ALA:HA	44:CE:22:GLU:OE1	2.06	0.55
44:CE:24:PHE:CE2	44:CE:52:PHE:HE1	2.24	0.55
44:CG:183:GLU:N	44:CG:184:PRO:HD2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:209:ILE:CG2	44:CG:227:LEU:HD13	2.36	0.55
45:CJ:46:ARG:HD2	45:CJ:46:ARG:N	2.19	0.55
45:CL:20:PHE:CE1	45:CL:24:ILE:HD11	2.41	0.55
45:CL:350:LYS:NZ	44:CM:180:ALA:HA	2.21	0.55
45:CL:410:GLU:O	45:CL:413:SER:N	2.39	0.55
44:CM:13:GLY:CA	44:CM:16:VAL:HG12	2.35	0.55
44:CM:31:GLN:CD	44:CM:37:PRO:HD3	2.26	0.55
44:CM:270:SER:HB2	44:CM:377:MET:O	2.06	0.55
44:DA:14:ILE:CD1	44:DA:74:VAL:HB	2.36	0.55
44:DA:121:ARG:HB2	44:DA:121:ARG:NH1	2.20	0.55
44:DA:268:MET:HB2	44:DA:379:SER:O	2.07	0.55
44:DC:34:GLY:O	44:DC:60:LYS:HA	2.06	0.55
45:DD:113:ILE:HG13	45:DD:116:VAL:CG1	2.37	0.55
44:DE:89:PRO:CD	44:EE:280:LYS:HD2	2.34	0.55
45:DF:86:ARG:HD3	45:EF:281:TYR:CA	2.36	0.55
45:DF:101:TRP:CZ3	45:DF:187:LEU:HD13	2.41	0.55
44:DG:318:MET:SD	44:DG:354:GLY:HA3	2.46	0.55
45:DH:163:ILE:HG13	45:DH:251:ARG:HE	1.70	0.55
45:DJ:217:LEU:HD12	45:DJ:217:LEU:O	2.05	0.55
45:DJ:242:PHE:HD2	45:DJ:356:ILE:HB	1.72	0.55
44:DK:107:HIS:CE1	44:DK:152:LEU:HD13	2.40	0.55
45:DL:252:LYS:HA	44:DM:100:ALA:HB1	1.88	0.55
45:DL:378:PHE:N	45:DL:379:LYS:HG2	2.21	0.55
45:DN:23:VAL:HG21	45:DN:230:SER:CB	2.36	0.55
45:DN:175:VAL:HG21	45:DN:205:GLU:HB3	1.87	0.55
45:DN:305:PRO:HB2	45:DN:310:TYR:CE1	2.32	0.55
44:EA:201:ALA:O	44:EA:267:PHE:HA	2.06	0.55
44:EC:51:THR:HG22	44:EC:52:PHE:CD1	2.41	0.55
44:EE:88:HIS:HB3	44:EE:91:GLN:CG	2.37	0.55
44:EE:320:ARG:CZ	44:EE:360:PRO:HB3	2.36	0.55
44:EI:168:GLY:O	44:EI:201:ALA:HA	2.06	0.55
45:EJ:223:GLY:HA2	45:EJ:226:ASN:HD22	1.71	0.55
45:EL:302:ALA:CB	45:EL:377:MET:HE1	2.35	0.55
44:EM:26:LEU:CD2	44:EM:363:VAL:HA	2.37	0.55
45:EN:99:ASN:HA	45:EN:142:GLY:HA3	1.88	0.55
45:EN:248:SER:CA	45:EN:252:LYS:HD2	2.33	0.55
45:EN:398:TYR:CD2	45:EN:403:MET:HE1	2.39	0.55
45:FB:61:PRO:CG	45:FB:84:LEU:HD23	2.36	0.55
45:FB:166:THR:O	45:FB:200:MET:HB2	2.06	0.55
45:FB:320:ARG:HG2	45:FB:355:ASP:HB3	1.88	0.55
44:FG:9:VAL:HG21	44:FG:149:LEU:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:22:GLU:HG3	44:FG:83:TYR:OH	2.06	0.55
44:FG:240:ALA:CB	44:FG:320:ARG:HH21	2.19	0.55
45:FH:11:GLN:HG3	45:FH:72:THR:OG1	2.06	0.55
44:FI:145:THR:O	44:FI:149:LEU:HB2	2.06	0.55
44:FK:47:ASP:HB2	44:FK:49:PHE:CE1	2.41	0.55
44:FK:175:PRO:CD	44:FK:304:LYS:HD3	2.31	0.55
44:FK:220:GLU:OE1	44:FK:221:ARG:HB2	2.06	0.55
45:FL:258:ILE:HG23	45:FL:263:LEU:O	2.06	0.55
45:FL:326:VAL:HG11	45:FL:353:ILE:HD11	1.88	0.55
44:FM:224:TYR:CD2	45:FN:323:THR:HG22	2.40	0.55
45:FN:73:MET:HA	45:FN:76:VAL:CG1	2.36	0.55
44:GA:235:ILE:O	44:GA:239:THR:HG23	2.07	0.55
45:GB:22:GLU:HG2	45:GB:81:PHE:CB	2.36	0.55
45:GB:337:ASN:HB2	45:GB:341:PHE:HE2	1.71	0.55
45:GB:396:HIS:HA	45:GB:399:THR:OG1	2.06	0.55
44:GC:296:PHE:CD2	44:GC:335:ILE:HG21	2.41	0.55
44:GE:26:LEU:CD2	44:GE:364:PRO:HD3	2.36	0.55
45:GF:267:MET:CE	45:GF:299:MET:HG2	2.35	0.55
44:GG:97:GLU:HG3	44:GG:105:ARG:HH22	1.70	0.55
44:GG:205:ASP:OD2	44:GG:304:LYS:N	2.29	0.55
44:GI:221:ARG:CG	45:GJ:322:SER:HB3	2.35	0.55
44:GI:384:ILE:HG13	44:GI:388:PHE:CE1	2.36	0.55
45:GJ:97:ALA:HB3	45:GJ:143:THR:HB	1.87	0.55
44:GK:174:SER:CB	44:GK:207:GLU:HB2	2.36	0.55
44:GK:210:TYR:HD1	44:GK:227:LEU:HD21	1.71	0.55
45:GL:102:ALA:HB3	45:GL:401:GLU:OE1	2.06	0.55
44:GM:66:VAL:HG13	44:GM:66:VAL:O	2.06	0.55
45:GN:135:ILE:HB	45:GN:152:ILE:HD11	1.86	0.55
45:GN:198:GLU:OE2	45:GN:254:ALA:HB2	2.05	0.55
45:GN:229:VAL:HG12	45:GN:233:MET:HE2	1.88	0.55
44:HA:174:SER:CB	44:HA:207:GLU:HB2	2.36	0.55
44:HA:271:SER:HB2	44:HA:377:MET:SD	2.45	0.55
45:HB:294:PHE:CE2	45:HB:333:VAL:HG11	2.41	0.55
45:HB:372:THR:HG22	45:HB:422:TYR:HD2	1.72	0.55
44:HC:104:ALA:HB2	44:HC:408:TYR:HD2	1.72	0.55
44:HC:217:LEU:HB3	44:HC:219:ILE:CD1	2.35	0.55
44:HE:5:ILE:HD11	44:HE:135:PHE:CZ	2.41	0.55
44:HG:319:TYR:HE2	44:HG:328:VAL:HG22	1.70	0.55
45:HH:256:ASN:HB2	45:HH:350:LYS:HD2	1.87	0.55
45:HH:377:MET:O	45:HH:380:ARG:HG2	2.06	0.55
45:HH:395:LEU:HG	45:HH:399:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:26:LEU:CD2	44:HI:363:VAL:HA	2.36	0.55
44:HK:241:SER:OG	44:HK:250:VAL:O	2.24	0.55
44:HK:287:SER:O	44:HK:291:ILE:HG23	2.05	0.55
45:HL:6:HIS:ND1	45:HL:134:GLN:HG3	2.21	0.55
45:HL:392:LYS:HE2	45:HL:395:LEU:HD22	1.87	0.55
44:HM:51:THR:HG21	44:HM:243:ARG:CZ	2.37	0.55
45:IB:291:GLN:NE2	45:IB:292:GLN:HB2	2.21	0.55
44:IC:285:GLN:HG3	44:IC:287:SER:H	1.72	0.55
45:ID:170:VAL:HG23	45:ID:171:PRO:HD2	1.87	0.55
44:IE:218:ASP:C	44:IE:219:ILE:HD13	2.27	0.55
45:IF:40:SER:O	45:IF:43:GLN:HB2	2.06	0.55
45:IH:376:GLU:CG	45:IH:380:ARG:HH21	2.18	0.55
44:II:1:MET:HE2	45:IL:94:GLN:HG3	1.88	0.55
45:IN:239:CYS:SG	45:IN:247:ASN:HA	2.46	0.55
45:JB:108:GLU:O	45:JB:111:GLU:HG3	2.06	0.55
45:JB:209:ASP:OD1	45:JB:210:ILE:HG13	2.06	0.55
44:JC:287:SER:O	44:JC:291:ILE:HG23	2.06	0.55
44:JC:323:VAL:HG11	44:JC:355:ILE:HD12	1.87	0.55
45:JD:282:ARG:HH12	45:JD:284:LEU:HD11	1.71	0.55
45:JF:210:ILE:HG12	45:JF:297:LYS:NZ	2.21	0.55
45:JH:169:VAL:HA	45:JH:202:ILE:O	2.06	0.55
44:JI:243:ARG:HG3	44:JI:244:PHE:CE2	2.41	0.55
45:JJ:193:VAL:HG23	45:JJ:264:HIS:CE1	2.41	0.55
44:JK:175:PRO:HA	44:JK:390:ARG:NH1	2.20	0.55
44:JM:169:PHE:HD1	44:JM:202:VAL:HG21	1.68	0.55
44:JM:172:TYR:HB3	44:JM:173:PRO:HD2	1.87	0.55
45:JN:178:THR:O	45:JN:181:GLU:HG3	2.07	0.55
45:JN:242:PHE:HD2	45:JN:356:ILE:HG13	1.71	0.55
44:KA:51:THR:HG21	44:KA:243:ARG:HG2	1.88	0.55
45:KB:404:ASP:OD1	45:KB:407:GLU:HG3	2.06	0.55
45:KD:47:ILE:HG12	45:KD:59:TYR:HE2	1.72	0.55
44:KE:183:GLU:N	44:KE:184:PRO:HD2	2.21	0.55
45:KF:227:HIS:HA	45:KF:230:SER:OG	2.06	0.55
45:KF:272:PRO:CD	45:KF:289:LEU:HD21	2.35	0.55
45:KF:389:PHE:HE1	45:KF:395:LEU:HD13	1.71	0.55
44:KG:118:CYS:SG	44:KG:153:LEU:HD11	2.47	0.55
44:KG:272:TYR:HD2	44:KG:275:ILE:HD11	1.69	0.55
44:KG:287:SER:N	44:KG:290:GLU:OE2	2.37	0.55
44:KK:183:GLU:HA	44:KK:186:ASN:OD1	2.06	0.55
45:KL:139:LEU:HD22	45:KL:170:VAL:CG1	2.36	0.55
45:KL:313:ALA:HB1	45:KL:367:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:325:GLU:HA	45:KL:328:GLU:CG	2.34	0.55
44:KM:166:LYS:O	44:KM:199:ASP:HB2	2.05	0.55
44:LA:56:THR:HG21	44:LA:60:LYS:N	2.21	0.55
44:LA:300:ASN:OD1	44:LA:300:ASN:O	2.24	0.55
45:LD:19:LYS:HD2	45:LD:22:GLU:OE2	2.06	0.55
45:LD:130:LEU:HD23	45:LD:162:ARG:HD2	1.87	0.55
45:LF:352:SER:C	45:LF:353:ILE:HD12	2.27	0.55
44:LG:118:CYS:O	44:LG:122:ILE:HG12	2.06	0.55
44:LG:183:GLU:N	44:LG:184:PRO:HD2	2.22	0.55
44:LI:11:GLN:HE22	45:LJ:246:LEU:HA	1.69	0.55
44:LI:225:THR:O	44:LI:229:ARG:HG2	2.06	0.55
45:LJ:192:LEU:HG	45:LJ:199:CYS:SG	2.46	0.55
45:LN:2:ARG:NH2	45:LN:240:LEU:HG	2.21	0.55
45:MB:253:LEU:O	45:MB:257:LEU:HD13	2.06	0.55
45:MB:293:MET:CE	45:MB:365:VAL:HG12	2.35	0.55
45:MD:378:PHE:HA	45:MD:381:VAL:HG12	1.88	0.55
44:MG:262:TYR:HB3	44:MG:263:PRO:CD	2.30	0.55
45:MH:44:LEU:HA	45:MH:47:ILE:CG1	2.37	0.55
44:MI:222:PRO:HD2	45:MJ:324:LYS:HD3	1.87	0.55
45:MJ:101:TRP:CZ3	45:MJ:187:LEU:HG	2.41	0.55
44:MK:320:ARG:HA	44:MK:356:ASN:O	2.05	0.55
45:MN:286:VAL:HG22	45:MN:287:PRO:HD3	1.89	0.55
44:NA:30:ILE:HD11	44:NA:34:GLY:O	2.06	0.55
44:NA:232:ALA:HA	44:NA:235:ILE:CG1	2.36	0.55
45:ND:391:ARG:O	45:ND:392:LYS:HG3	2.06	0.55
45:NF:345:ILE:O	45:NF:345:ILE:HG23	2.07	0.55
45:NH:55:THR:CG2	45:OH:284:LEU:HD23	2.34	0.55
45:NH:105:HIS:CD2	45:NH:150:LEU:HB2	2.41	0.55
45:NH:167:PHE:HE1	45:NH:200:MET:CE	2.17	0.55
45:NH:406:MET:O	45:NH:409:THR:HG22	2.06	0.55
44:NI:2:ARG:NH2	44:NI:133:GLN:HG3	2.21	0.55
44:NI:100:ALA:CB	45:NJ:252:LYS:HA	2.36	0.55
45:NJ:99:ASN:HA	45:NJ:142:GLY:CA	2.36	0.55
44:NK:6:SER:O	44:NK:66:VAL:HG22	2.06	0.55
44:NK:171:ILE:HG23	44:NK:204:LEU:O	2.06	0.55
45:NN:9:GLY:HA2	45:NN:66:MET:O	2.06	0.55
45:NN:217:LEU:HD12	45:NN:217:LEU:O	2.06	0.55
44:OA:188:ILE:HG13	44:OA:395:PHE:CD1	2.40	0.55
44:OA:279:GLU:HG2	44:OA:280:LYS:N	2.20	0.55
44:OC:224:TYR:CE1	45:OD:323:THR:HG21	2.41	0.55
44:OC:276:ILE:HG22	44:OC:277:SER:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:34:GLY:O	45:OD:58:ARG:HG3	2.05	0.55
45:OD:286:VAL:HG21	45:OD:325:GLU:CD	2.26	0.55
44:OE:276:ILE:CD1	44:OE:286:LEU:HD21	2.36	0.55
45:OF:156:ARG:CD	45:OF:195:ASN:HB3	2.36	0.55
45:OF:178:THR:N	45:OF:181:GLU:OE2	2.32	0.55
45:OH:146:GLY:O	45:OH:149:THR:HG22	2.06	0.55
45:OH:282:ARG:HG2	45:OH:283:ALA:H	1.71	0.55
45:OJ:133:PHE:CD2	45:OJ:155:VAL:HG11	2.42	0.55
44:OK:188:ILE:CG1	44:OK:425:LEU:HG	2.36	0.55
45:OL:152:ILE:HD12	45:OL:164:MET:HE1	1.87	0.55
45:ON:3:GLU:HB3	45:ON:49:VAL:HA	1.88	0.55
44:PA:212:ILE:HG21	44:PA:275:ILE:HD13	1.89	0.55
44:PE:226:ASN:O	44:PE:230:LEU:HD23	2.06	0.55
45:PF:190:HIS:O	45:PF:193:VAL:HG12	2.06	0.55
45:PF:286:VAL:HG21	45:PF:325:GLU:HG2	1.87	0.55
44:PG:110:ILE:HG13	44:PG:111:GLY:N	2.22	0.55
45:PH:193:VAL:HA	45:PH:264:HIS:CE1	2.42	0.55
45:PJ:239:CYS:SG	45:PJ:248:SER:N	2.77	0.55
45:PJ:282:ARG:NH2	45:PJ:292:GLN:OE1	2.39	0.55
44:PK:70:LEU:HD23	44:PK:145:THR:OG1	2.07	0.55
44:PK:340:THR:HG23	44:PK:341:ILE:HG13	1.87	0.55
44:PM:52:PHE:O	44:PM:63:PRO:HA	2.06	0.55
45:PN:315:ALA:HB1	45:PN:317:PHE:HE1	1.71	0.55
45:QB:246:LEU:HD11	44:QC:224:TYR:HE2	1.70	0.55
45:QB:287:PRO:CA	45:QB:290:THR:HG22	2.32	0.55
45:QB:296:ALA:HB1	45:QB:305:PRO:HD2	1.87	0.55
45:QB:350:LYS:HE3	44:QC:101:ASN:ND2	2.22	0.55
44:QC:242:LEU:CD1	44:QC:252:ILE:HG13	2.27	0.55
45:QD:24:ILE:CG2	45:QD:241:ARG:HH22	2.16	0.55
44:QE:231:ILE:O	44:QE:234:VAL:HB	2.06	0.55
44:QE:319:TYR:CD2	44:QE:323:VAL:HG11	2.36	0.55
44:QE:325:PRO:HG3	44:QE:355:ILE:HD13	1.89	0.55
44:QE:326:LYS:HG2	45:QF:220:PRO:HG2	1.87	0.55
45:QF:117:LEU:HD22	45:QF:154:LYS:HD2	1.87	0.55
44:QG:47:ASP:HB2	44:QG:49:PHE:CD1	2.42	0.55
44:QG:137:VAL:HG12	44:QG:167:LEU:O	2.06	0.55
45:QH:191:GLN:OE1	45:QH:191:GLN:HA	2.06	0.55
45:QJ:294:PHE:HD2	45:QJ:333:VAL:HG11	1.71	0.55
45:QN:166:THR:O	45:QN:199:CYS:HA	2.06	0.55
44:RA:328:VAL:O	44:RA:331:SER:HB2	2.06	0.55
45:RB:317:PHE:HB2	45:RB:352:SER:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RC:166:LYS:O	44:RC:199:ASP:HB2	2.06	0.55
45:RD:178:THR:CG2	45:RD:180:VAL:HG12	2.36	0.55
44:RG:156:ARG:HA	44:RG:159:VAL:HG12	1.89	0.55
45:RH:7:ILE:HB	45:RH:135:ILE:CD1	2.36	0.55
45:RH:112:LEU:O	45:RH:112:LEU:HD23	2.06	0.55
45:RH:210:ILE:O	45:RH:214:THR:OG1	2.13	0.55
44:RK:104:ALA:CB	44:RK:411:GLU:HB2	2.31	0.55
44:RK:261:PRO:HG2	44:RK:313:MET:CG	2.37	0.55
45:RL:332:ASN:OD1	45:RL:336:LYS:HG2	2.06	0.55
44:RM:348:PRO:HD2	45:RN:388:MET:CE	2.37	0.55
44:SA:55:GLU:HG3	44:SA:57:GLY:H	1.71	0.55
44:SA:212:ILE:O	44:SA:216:ASN:N	2.35	0.55
44:SC:4:VAL:HG22	44:SC:136:LEU:HG	1.87	0.55
44:SC:12:GLY:O	44:SC:16:VAL:HG12	2.05	0.55
44:SC:14:ILE:HG21	44:SC:74:VAL:HG22	1.89	0.55
45:SF:141:GLY:HA3	48:SF:501:GDP:O2B	2.07	0.55
45:SJ:14:ASN:OD1	45:SJ:15:GLN:N	2.40	0.55
45:SL:154:LYS:O	45:SL:157:GLU:N	2.38	0.55
44:SM:9:VAL:CA	44:SM:68:LEU:HB2	2.35	0.55
44:SM:68:LEU:CD2	44:SM:153:LEU:HD11	2.32	0.55
44:SM:124:LYS:CA	44:SM:127:ASP:HB2	2.29	0.55
45:SN:7:ILE:HG21	45:SN:66:MET:CE	2.36	0.55
45:TD:206:ALA:O	45:TD:210:ILE:N	2.32	0.55
44:TE:52:PHE:O	44:TE:64:ARG:HD3	2.05	0.55
45:TH:91:VAL:HG21	45:TH:116:VAL:CB	2.18	0.55
44:TK:118:CYS:O	44:TK:122:ILE:HG12	2.05	0.55
44:TK:154:LEU:O	44:TK:158:SER:N	2.34	0.55
45:TL:97:ALA:HB3	45:TL:143:THR:N	2.20	0.55
44:TM:186:ASN:OD1	44:TM:187:SER:N	2.40	0.55
44:UA:313:MET:CE	44:UA:344:VAL:HG11	2.37	0.55
45:UB:330:MET:HE2	45:UB:349:ILE:HB	1.88	0.55
44:UC:297:GLU:HB2	44:UC:300:ASN:ND2	2.21	0.55
44:UC:312:TYR:HB2	44:UC:342:GLN:O	2.05	0.55
45:UD:280:GLN:OE1	45:UD:281:TYR:N	2.38	0.55
45:UD:305:PRO:HA	45:UD:373:ALA:HB3	1.88	0.55
44:UE:104:ALA:HA	44:UE:108:TYR:CD2	2.41	0.55
44:UE:271:SER:HG	44:UE:301:MET:HA	1.71	0.55
45:UF:23:VAL:O	45:UF:26:ASP:N	2.37	0.55
45:UF:68:LEU:HB3	45:UF:143:THR:OG1	2.06	0.55
45:UH:172:SER:HB3	45:UH:203:ASP:OD1	2.06	0.55
44:UK:74:VAL:O	44:UK:78:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:258:ASN:HD21	45:UL:178:THR:HG23	1.71	0.55
44:UM:186:ASN:OD1	44:UM:187:SER:N	2.39	0.55
44:UM:186:ASN:O	44:UM:190:SER:N	2.32	0.55
44:UM:254:GLU:OE1	44:UM:254:GLU:N	2.40	0.55
45:VB:244:GLY:HA2	45:VB:355:ASP:CG	2.27	0.55
44:VC:73:THR:OG1	45:VD:2:ARG:NH2	2.38	0.55
44:VE:68:LEU:HD12	44:VE:69:ASP:N	2.22	0.55
44:VE:317:MET:HA	44:VE:377:MET:HA	1.87	0.55
45:VH:251:ARG:O	45:VH:254:ALA:HB3	2.05	0.55
44:VI:14:ILE:HD11	44:VI:69:ASP:CB	2.29	0.55
44:VI:407:TRP:HZ3	45:VJ:255:VAL:CA	2.17	0.55
45:VJ:324:LYS:O	45:VJ:328:GLU:HG2	2.06	0.55
44:VK:222:PRO:CG	45:VL:324:LYS:HD3	2.35	0.55
44:VM:63:PRO:CG	44:VM:86:LEU:HG	2.36	0.55
44:VM:141:VAL:HG22	44:VM:187:SER:OG	2.06	0.55
44:VM:291:ILE:HG13	44:VM:292:THR:N	2.20	0.55
45:VN:212:PHE:O	45:VN:216:LYS:HA	2.07	0.55
44:WA:87:PHE:CB	44:WA:92:LEU:HD11	2.36	0.55
44:WA:251:ASP:O	44:WA:254:GLU:N	2.39	0.55
45:WB:107:THR:CG2	45:WB:401:GLU:HB3	2.36	0.55
45:WD:329:GLN:O	45:WD:333:VAL:HG23	2.06	0.55
44:WG:288:VAL:HA	44:WG:291:ILE:CG2	2.36	0.55
45:WH:4:ILE:HG22	45:WH:131:GLN:HB3	1.88	0.55
45:WH:171:PRO:HB2	45:WH:181:GLU:OE1	2.06	0.55
44:WI:172:TYR:H	44:WI:203:MET:HE3	1.71	0.55
44:WK:191:THR:HA	44:WK:194:LEU:CD2	2.36	0.55
45:WL:22:GLU:HG2	45:WL:81:PHE:CD2	2.35	0.55
3:0B:243:TYR:HB3	45:JL:360:GLY:HA3	1.87	0.55
15:1V:141:ASN:O	44:LK:415:GLU:OE1	2.24	0.55
27:1W:176:GLU:OE2	45:LD:217:LEU:HD13	2.06	0.55
6:2E:135:GLY:HA3	35:5R:433:GLN:NE2	2.21	0.55
31:2H:174:PHE:HD2	35:7R:147:ARG:HD2	1.70	0.55
22:2L:870:ARG:NE	45:CJ:359:LYS:HA	2.22	0.55
15:2V:228:HIS:CE1	45:VH:77:ARG:HB2	2.41	0.55
16:2X:29:GLY:O	45:ML:217:LEU:HD21	2.05	0.55
26:3R:9:PRO:HB3	45:MN:227:HIS:CD2	2.41	0.55
12:3S:123:ALA:HB2	45:AN:423:GLN:OE1	2.06	0.55
38:5F:213:TYR:O	45:LJ:390:ARG:NH1	2.38	0.55
38:5G:120:GLU:HG3	38:5G:121:GLU:CG	2.30	0.55
35:5R:425:ARG:NH1	44:EI:40:LYS:HZ2	2.04	0.55
35:5R:478:ASN:CG	35:5R:479:PRO:HD2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:547:GLU:HA	35:5R:550:VAL:HG22	1.88	0.55
36:5S:76:ILE:HG22	36:5S:89:TRP:CD1	2.42	0.55
11:6Q:7:GLN:HB3	11:6Q:73:LEU:CD2	2.34	0.55
11:6Q:71:ILE:CG2	11:6Q:73:LEU:HG	2.36	0.55
35:6R:241:PRO:CB	44:CM:373:ARG:HH12	2.18	0.55
35:7R:351:ASN:HA	35:7R:370:PRO:CB	2.36	0.55
42:8N:311:UNK:CB	45:RB:280:GLN:HE21	2.19	0.55
42:8N:329:UNK:CB	44:QA:58:ALA:HB2	2.36	0.55
43:8P:333:UNK:O	43:8P:337:UNK:N	2.40	0.55
45:AB:383:GLU:O	45:AB:386:THR:HG22	2.05	0.55
44:AC:102:ASN:CG	44:AC:105:ARG:HG3	2.27	0.55
45:AD:21:TRP:HA	45:AD:24:ILE:CG2	2.30	0.55
45:AD:103:LYS:HA	45:AD:107:THR:OG1	2.06	0.55
45:AD:375:GLN:O	45:AD:379:LYS:HG3	2.06	0.55
44:AE:285:GLN:HA	44:ME:56:THR:O	2.06	0.55
45:AF:13:GLY:O	45:AF:16:ILE:HG22	2.06	0.55
44:AG:177:VAL:O	44:AG:177:VAL:HG13	2.07	0.55
44:AG:384:ILE:O	44:AG:387:VAL:HG22	2.05	0.55
45:AH:16:ILE:CG2	45:AH:136:THR:HG21	2.35	0.55
45:AH:248:SER:CB	45:AH:252:LYS:HD2	2.36	0.55
44:AI:155:GLU:HG3	44:AI:197:HIS:CE1	2.41	0.55
44:AI:174:SER:HB3	44:AI:207:GLU:HB2	1.87	0.55
44:AI:289:ALA:O	44:AI:292:THR:HG22	2.06	0.55
44:AK:217:LEU:HD21	44:AK:275:ILE:CG2	2.35	0.55
45:AL:330:MET:O	45:AL:333:VAL:HG12	2.05	0.55
44:AM:11:GLN:NE2	45:AN:247:ASN:H	2.00	0.55
44:AM:188:ILE:O	44:AM:191:THR:HG22	2.07	0.55
45:AN:87:PRO:HA	45:AN:90:PHE:CD2	2.42	0.55
44:BC:100:ALA:O	45:BD:255:VAL:HG21	2.05	0.55
44:BC:348:PRO:HD2	45:BF:388:MET:HE2	1.89	0.55
45:BD:207:LEU:CB	45:BD:225:LEU:HD22	2.22	0.55
44:BE:55:GLU:HG3	44:BE:57:GLY:N	2.17	0.55
44:BG:19:ALA:HA	44:BG:22:GLU:OE1	2.05	0.55
44:BK:22:GLU:HG3	44:BK:83:TYR:HE2	1.70	0.55
44:BK:93:ILE:CG2	44:BK:114:ILE:HD11	2.34	0.55
44:BK:141:VAL:HG11	44:BK:172:TYR:HA	1.88	0.55
45:BL:113:ILE:HG12	45:BL:154:LYS:HE2	1.88	0.55
44:BM:252:ILE:HA	44:BM:255:PHE:CE2	2.41	0.55
45:CB:286:VAL:O	45:CB:290:THR:HG22	2.07	0.55
45:CB:311:LEU:HB2	45:CB:370:ASN:CG	2.26	0.55
44:CC:104:ALA:CA	44:CC:413:MET:HE3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:327:ASP:HB3	44:CE:177:VAL:HG13	1.87	0.55
45:CF:403:MET:CE	45:CF:404:ASP:H	2.18	0.55
44:CG:210:TYR:HE1	44:CG:227:LEU:HD21	1.70	0.55
45:CJ:286:VAL:HG13	45:CJ:287:PRO:HD3	1.88	0.55
44:CK:72:PRO:HG3	44:CK:95:GLY:O	2.07	0.55
44:CK:134:GLY:HA3	44:CK:164:LYS:HZ2	1.69	0.55
45:CL:311:LEU:HD21	45:CL:370:ASN:CG	2.26	0.55
44:CM:2:ARG:O	44:CM:3:GLU:HG3	2.06	0.55
44:DA:439:THR:HG21	45:DB:390:ARG:HD2	1.88	0.55
45:DB:318:ARG:HH11	45:DB:358:PRO:CG	2.17	0.55
45:DB:324:LYS:CE	44:DC:210:TYR:HB3	2.30	0.55
45:DB:345:ILE:O	45:DB:345:ILE:HG23	2.07	0.55
45:DD:237:THR:HG23	45:DD:241:ARG:HE	1.71	0.55
45:DF:242:PHE:HD2	45:DF:356:ILE:HG13	1.71	0.55
45:DH:9:GLY:O	45:DH:137:HIS:HA	2.07	0.55
45:DJ:170:VAL:CG2	45:DJ:171:PRO:HD2	2.37	0.55
44:DK:426:ALA:O	44:DK:430:LYS:N	2.33	0.55
44:DK:431:ASP:O	44:DK:435:VAL:HG13	2.06	0.55
45:DL:20:PHE:O	45:DL:24:ILE:HG12	2.06	0.55
45:DL:324:LYS:HB2	44:DM:222:PRO:O	2.06	0.55
44:DM:296:PHE:HD2	44:DM:335:ILE:HD12	1.70	0.55
44:DM:387:VAL:O	44:DM:391:LEU:HD13	2.06	0.55
45:DN:309:ARG:O	45:DN:371:SER:HA	2.05	0.55
45:EB:81:PHE:HA	45:EB:84:LEU:HD13	1.88	0.55
45:EB:215:LEU:HB3	45:EB:217:LEU:HD23	1.87	0.55
45:EB:272:PRO:HG3	45:EB:289:LEU:CD2	2.36	0.55
44:EC:318:MET:O	44:EC:375:VAL:HA	2.05	0.55
45:ED:286:VAL:HB	45:ED:325:GLU:OE1	2.06	0.55
45:ED:304:ASP:OD1	45:ED:305:PRO:HD2	2.06	0.55
44:EE:136:LEU:CD2	44:EE:167:LEU:HB2	2.36	0.55
44:EE:179:THR:HB	46:EE:501:GTP:O3'	2.06	0.55
45:EF:201:VAL:O	45:EF:202:ILE:HD13	2.06	0.55
45:EH:184:ASN:OD1	45:EH:185:ALA:N	2.39	0.55
45:EL:167:PHE:CE1	45:EL:200:MET:HB3	2.42	0.55
45:EN:135:ILE:N	45:EN:165:GLU:O	2.38	0.55
45:EN:187:LEU:HD11	45:EN:408:PHE:CE1	2.42	0.55
45:EN:221:THR:O	45:EN:224:ASP:N	2.34	0.55
45:EN:242:PHE:CE1	45:EN:356:ILE:HG21	2.41	0.55
44:FA:268:MET:HG2	44:FA:380:ASN:HB2	1.88	0.55
44:FA:296:PHE:CE2	44:FA:335:ILE:HG21	2.42	0.55
45:FB:61:PRO:HD2	45:FB:84:LEU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:109:GLY:O	45:FB:113:ILE:HG23	2.07	0.55
45:FB:167:PHE:HA	45:FB:200:MET:HB2	1.89	0.55
45:FB:213:ARG:HB3	45:FB:297:LYS:NZ	2.21	0.55
44:FC:87:PHE:HB3	44:FC:91:GLN:NE2	2.10	0.55
44:FC:215:ARG:NH2	44:FC:299:ALA:O	2.36	0.55
44:FC:348:PRO:HB2	45:FF:384:GLN:HE22	1.71	0.55
45:FD:21:TRP:CE3	45:FD:61:PRO:HB2	2.42	0.55
45:FD:403:MET:HE1	45:FD:407:GLU:HB2	1.87	0.55
44:FE:328:VAL:O	44:FE:332:ILE:HG12	2.05	0.55
45:FF:108:GLU:O	45:FF:111:GLU:HG3	2.07	0.55
45:FF:344:TRP:CE3	45:FF:345:ILE:HG12	2.41	0.55
44:FG:88:HIS:HB3	44:FG:91:GLN:HG2	1.88	0.55
44:FG:186:ASN:OD1	44:FG:187:SER:N	2.40	0.55
44:FG:217:LEU:HD22	44:FG:277:SER:HB3	1.87	0.55
44:FG:287:SER:HB3	44:FG:290:GLU:OE2	2.07	0.55
45:FH:200:MET:CE	45:FH:200:MET:HA	2.36	0.55
44:FI:183:GLU:N	44:FI:184:PRO:HD2	2.20	0.55
44:FI:221:ARG:NH1	45:FJ:325:GLU:HG3	2.19	0.55
44:FI:288:VAL:HA	44:FI:291:ILE:CG1	2.36	0.55
44:FI:301:MET:HA	44:FI:301:MET:HE3	1.86	0.55
44:FM:4:VAL:H	44:FM:64:ARG:HH21	1.54	0.55
44:FM:219:ILE:HG22	44:FM:222:PRO:CD	2.36	0.55
45:FN:105:HIS:HD2	45:FN:146:GLY:HA3	1.72	0.55
45:FN:187:LEU:HD21	45:FN:408:PHE:CE1	2.42	0.55
45:GB:11:GLN:HG3	45:GB:72:THR:OG1	2.06	0.55
45:GB:14:ASN:OD1	45:GB:65:LEU:HD23	2.07	0.55
44:GC:31:GLN:CD	44:GC:37:PRO:HG3	2.27	0.55
44:GC:183:GLU:N	44:GC:184:PRO:HD2	2.21	0.55
45:GD:3:GLU:CG	45:GD:127:CYS:HB2	2.36	0.55
45:GD:11:GLN:HG3	48:GD:503:GDP:O1B	2.07	0.55
45:GD:406:MET:O	45:GD:410:GLU:HG3	2.05	0.55
44:GG:28:HIS:HE1	44:GG:243:ARG:HH11	1.54	0.55
45:GH:248:SER:CA	45:GH:252:LYS:HD2	2.36	0.55
44:GI:238:LEU:O	44:GI:238:LEU:HD23	2.06	0.55
44:GI:315:CYS:O	44:GI:351:PHE:HA	2.06	0.55
44:GK:70:LEU:HD12	44:GK:145:THR:HG22	1.87	0.55
45:GN:164:MET:O	45:GN:197:ASP:HB2	2.05	0.55
45:GN:290:THR:HG21	45:GN:329:GLN:OE1	2.06	0.55
45:GN:374:ILE:HA	45:GN:377:MET:CE	2.36	0.55
44:HA:189:LEU:HD11	44:HA:418:PHE:CE1	2.41	0.55
44:HA:384:ILE:HG13	44:HA:387:VAL:CG2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:193:VAL:HA	45:HB:264:HIS:NE2	2.21	0.55
44:HC:266:HIS:ND1	44:HC:266:HIS:O	2.40	0.55
45:HD:42:LEU:HD23	45:HD:243:PRO:CD	2.35	0.55
45:HD:87:PRO:HD2	45:ID:281:TYR:HD2	1.70	0.55
44:HE:280:LYS:HD2	44:HE:283:HIS:ND1	2.20	0.55
45:HF:40:SER:N	45:HF:43:GLN:OE1	2.38	0.55
44:HG:182:VAL:O	44:HG:182:VAL:HG22	2.07	0.55
44:HI:96:LYS:HD2	45:HJ:1:MET:HE3	1.87	0.55
44:HI:350:GLY:HA2	45:HL:179:VAL:HG12	1.89	0.55
44:HK:258:ASN:O	44:HK:259:LEU:HD23	2.07	0.55
44:HM:205:ASP:OD1	44:HM:303:ALA:HA	2.06	0.55
44:HM:235:ILE:HD13	44:HM:238:LEU:HD21	1.87	0.55
44:HM:259:LEU:HD21	44:HM:316:SER:HB2	1.89	0.55
44:HM:273:ALA:HB1	44:HM:274:PRO:HA	1.87	0.55
44:HM:311:LYS:HB2	44:HM:382:THR:HG23	1.87	0.55
45:HN:21:TRP:CZ3	45:HN:61:PRO:HB3	2.41	0.55
45:HN:329:GLN:O	45:HN:333:VAL:HG23	2.07	0.55
44:IC:54:SER:HB3	44:IC:64:ARG:CZ	2.37	0.55
45:ID:109:GLY:O	45:ID:113:ILE:N	2.37	0.55
45:ID:295:ASP:OD1	45:ID:296:ALA:N	2.39	0.55
44:IE:91:GLN:HG3	44:IE:92:LEU:HD12	1.89	0.55
45:IL:173:PRO:HG2	45:IL:380:ARG:HD3	1.88	0.55
45:IL:239:CYS:SG	45:IL:248:SER:N	2.75	0.55
45:JB:271:ALA:HB1	45:JB:272:PRO:HA	1.87	0.55
44:JC:118:CYS:O	44:JC:122:ILE:HG13	2.06	0.55
44:JC:178:SER:HB2	44:JC:183:GLU:OE1	2.06	0.55
44:JC:215:ARG:NH2	44:JC:299:ALA:HB1	2.22	0.55
44:JC:259:LEU:HD13	44:JC:314:ALA:HB1	1.88	0.55
44:JE:99:ALA:HB3	46:JE:501:GTP:O2G	2.06	0.55
45:JF:130:LEU:HD21	45:JF:133:PHE:CE1	2.41	0.55
45:JF:221:THR:HG22	45:JF:222:TYR:N	2.20	0.55
44:JG:107:HIS:O	44:JG:107:HIS:ND1	2.38	0.55
45:JH:65:LEU:HD22	45:JH:90:PHE:CE1	2.42	0.55
44:JM:183:GLU:N	44:JM:184:PRO:HD2	2.21	0.55
45:JN:42:LEU:O	45:JN:45:GLU:HG2	2.07	0.55
45:JN:183:TYR:OH	45:JN:389:PHE:HA	2.06	0.55
44:KA:181:VAL:CG1	45:KB:345:ILE:HD11	2.35	0.55
44:KA:417:GLU:O	44:KA:420:GLU:HG2	2.06	0.55
44:KC:137:VAL:HG22	44:KC:167:LEU:O	2.06	0.55
45:KD:216:LYS:HB2	45:KD:275:SER:OG	2.06	0.55
45:KD:218:THR:HG23	45:KD:219:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:398:TYR:O	45:KD:403:MET:HB2	2.06	0.55
44:KG:70:LEU:HA	44:KG:95:GLY:HA3	1.87	0.55
44:KG:261:PRO:HA	45:KJ:394:PHE:CD1	2.42	0.55
45:KJ:294:PHE:CD2	45:KJ:333:VAL:HG21	2.41	0.55
44:KK:7:ILE:HD11	44:KK:122:ILE:HD12	1.88	0.55
44:KM:256:GLN:HA	44:KM:260:VAL:CG2	2.37	0.55
44:KM:256:GLN:HA	44:KM:260:VAL:HG23	1.88	0.55
44:LA:174:SER:HB2	44:LA:177:VAL:O	2.06	0.55
44:LC:36:MET:HE2	44:LC:36:MET:HA	1.88	0.55
44:LG:346:TRP:CZ3	44:LG:347:CYS:HB2	2.42	0.55
45:LJ:105:HIS:CE1	45:LJ:150:LEU:HD11	2.41	0.55
45:LJ:135:ILE:CB	45:LJ:166:THR:HG22	2.28	0.55
45:LL:198:GLU:OE2	45:LL:254:ALA:HB2	2.07	0.55
44:LM:319:TYR:H	44:LM:354:GLY:C	2.03	0.55
45:LN:117:LEU:HA	45:LN:120:VAL:CG1	2.35	0.55
44:MA:209:ILE:HB	44:MA:302:MET:HE3	1.88	0.55
45:MB:105:HIS:CD2	45:MB:150:LEU:HD12	2.42	0.55
45:MB:143:THR:O	45:MB:147:MET:N	2.35	0.55
44:MC:221:ARG:HG2	45:MD:322:SER:HB3	1.87	0.55
45:MD:420:SER:O	45:MD:423:GLN:HG3	2.06	0.55
44:ME:1:MET:HG2	44:ME:130:THR:OG1	2.06	0.55
44:ME:223:THR:HB	45:MF:322:SER:O	2.06	0.55
44:ME:230:LEU:HD11	44:ME:368:LEU:HD21	1.89	0.55
44:ME:383:ALA:HB3	44:ME:433:GLU:N	2.22	0.55
45:MF:21:TRP:CZ2	45:MF:61:PRO:HB3	2.41	0.55
45:MF:116:VAL:HG22	45:MF:120:VAL:CG2	2.36	0.55
45:MF:178:THR:CG2	45:MF:180:VAL:HG12	2.37	0.55
44:MG:71:GLU:OE1	44:MG:73:THR:HB	2.06	0.55
45:MH:135:ILE:HG13	45:MH:152:ILE:CD1	2.35	0.55
45:MH:161:ASP:CG	45:MH:162:ARG:HE	2.08	0.55
44:MK:174:SER:HB3	44:MK:207:GLU:CG	2.33	0.55
44:MK:272:TYR:CD1	44:MK:275:ILE:HD11	2.41	0.55
44:MK:280:LYS:HD3	44:MK:283:HIS:HE2	1.70	0.55
45:ML:99:ASN:HA	45:ML:142:GLY:H	1.71	0.55
45:NB:20:PHE:O	45:NB:24:ILE:HG12	2.05	0.55
44:NC:301:MET:HE2	44:NC:307:PRO:CG	2.37	0.55
44:NC:324:VAL:HG11	45:NF:219:THR:CG2	2.36	0.55
44:NC:423:GLU:O	44:NC:427:ALA:N	2.26	0.55
44:NE:60:LYS:HE3	44:OE:282:TYR:CD2	2.41	0.55
44:NE:76:ASP:OD2	45:NF:46:ARG:NH2	2.34	0.55
45:NF:99:ASN:HA	45:NF:142:GLY:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:167:PHE:CE2	45:NF:233:MET:HG2	2.40	0.55
45:NF:211:CYS:SG	45:NF:225:LEU:HD21	2.47	0.55
45:NF:260:PHE:HB3	45:NF:261:PRO:CD	2.34	0.55
44:NG:141:VAL:HG11	44:NG:172:TYR:CD1	2.42	0.55
44:NG:183:GLU:N	44:NG:183:GLU:OE1	2.39	0.55
44:NG:328:VAL:HG21	44:NG:355:ILE:HD11	1.88	0.55
45:NH:76:VAL:O	45:NH:76:VAL:HG22	2.07	0.55
44:NI:261:PRO:HA	45:NL:394:PHE:CE1	2.41	0.55
45:NJ:238:CYS:SG	45:NJ:239:CYS:N	2.79	0.55
45:NL:11:GLN:O	45:NL:15:GLN:N	2.29	0.55
45:NN:67:ASP:OD2	45:NN:69:GLU:HG3	2.07	0.55
45:OB:64:ILE:HG22	45:OB:66:MET:SD	2.46	0.55
45:OD:18:ALA:O	45:OD:22:GLU:HG3	2.06	0.55
45:OD:183:TYR:O	45:OD:186:THR:HG22	2.06	0.55
44:OI:167:LEU:HD13	44:OI:200:VAL:HB	1.89	0.55
44:OI:317:MET:HE2	44:OI:375:VAL:HG21	1.88	0.55
45:OJ:86:ARG:HB3	45:OJ:89:ASN:HD22	1.72	0.55
45:OJ:374:ILE:HG12	45:OJ:422:TYR:CE2	2.41	0.55
45:OL:2:ARG:HH12	45:OL:240:LEU:HA	1.71	0.55
45:OL:73:MET:O	45:OL:76:VAL:HG22	2.07	0.55
45:OL:139:LEU:HD22	45:OL:188:SER:OG	2.06	0.55
45:OL:260:PHE:HB3	45:OL:261:PRO:HD2	1.88	0.55
44:OM:272:TYR:O	44:OM:300:ASN:ND2	2.36	0.55
45:ON:239:CYS:HB2	45:ON:354:CYS:HB2	1.87	0.55
45:ON:342:VAL:CG1	45:ON:348:ASN:HD22	2.18	0.55
44:PA:106:GLY:O	44:PA:149:LEU:HD22	2.05	0.55
44:PA:183:GLU:HG2	44:PA:184:PRO:CD	2.37	0.55
44:PC:189:LEU:HD11	44:PC:418:PHE:CE1	2.41	0.55
44:PG:97:GLU:HG2	44:PG:105:ARG:HH22	1.71	0.55
44:PG:344:VAL:HG13	44:PG:347:CYS:HB3	1.88	0.55
45:PH:310:TYR:HB2	45:PH:341:PHE:CD1	2.42	0.55
45:PH:372:THR:HA	45:PH:422:TYR:CE2	2.40	0.55
45:PJ:63:ALA:HB1	45:PJ:65:LEU:HD13	1.88	0.55
45:PL:14:ASN:OD1	45:PL:15:GLN:N	2.40	0.55
45:PL:309:ARG:N	45:PL:372:THR:OG1	2.40	0.55
44:PM:221:ARG:HG3	45:PN:322:SER:HB2	1.88	0.55
45:PN:260:PHE:HB2	45:PN:263:LEU:HD13	1.87	0.55
45:QB:42:LEU:HA	45:QB:45:GLU:CG	2.36	0.55
45:QB:136:THR:HG22	45:QB:167:PHE:HD2	1.72	0.55
44:QC:52:PHE:HE2	44:QC:239:THR:HG1	1.52	0.55
44:QC:349:THR:OG1	45:QD:179:VAL:HG12	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:217:LEU:HD11	45:QD:220:PRO:HG3	1.87	0.55
45:QD:248:SER:CB	45:QD:252:LYS:HD2	2.37	0.55
44:QE:329:ASN:HB3	45:QF:175:VAL:HG11	1.87	0.55
45:QF:179:VAL:O	45:QF:182:PRO:HD2	2.07	0.55
45:QF:256:ASN:C	45:QF:257:LEU:HD12	2.26	0.55
44:QG:262:TYR:HB3	44:QG:263:PRO:HD2	1.89	0.55
45:QH:30:ILE:HG23	45:QH:35:THR:O	2.07	0.55
45:QH:105:HIS:HD2	45:QH:146:GLY:O	1.89	0.55
44:QK:349:THR:HG23	45:QL:179:VAL:CA	2.33	0.55
44:QM:70:LEU:HB3	44:QM:98:ASP:HA	1.88	0.55
44:QM:223:THR:HG23	44:QM:225:THR:H	1.72	0.55
45:QN:45:GLU:O	45:QN:46:ARG:HD3	2.07	0.55
45:QN:60:VAL:HG21	45:QN:86:ARG:CD	2.31	0.55
44:RA:56:THR:HG23	44:RA:58:ALA:H	1.70	0.55
44:RA:278:ALA:HB1	44:RA:282:TYR:CE2	2.41	0.55
44:RA:319:TYR:HB2	44:RA:354:GLY:O	2.07	0.55
45:RB:155:VAL:O	45:RB:159:TYR:N	2.38	0.55
44:RC:26:LEU:CD2	44:RC:364:PRO:HD3	2.35	0.55
44:RC:194:LEU:HD13	44:RC:198:THR:HG21	1.88	0.55
44:RC:298:PRO:HA	44:RC:301:MET:CG	2.33	0.55
45:RD:375:GLN:HG3	45:RD:379:LYS:HG3	1.88	0.55
44:RE:7:ILE:HB	44:RE:137:VAL:CA	2.33	0.55
44:RG:5:ILE:HB	44:RG:135:PHE:CD1	2.41	0.55
44:RG:287:SER:CB	44:RG:290:GLU:HG2	2.31	0.55
45:RH:28:HIS:NE2	45:RH:241:ARG:HD2	2.22	0.55
44:RI:66:VAL:HG12	44:RI:68:LEU:CD1	2.36	0.55
45:RJ:116:VAL:O	45:RJ:119:VAL:HG12	2.05	0.55
44:RK:203:MET:HG3	44:RK:384:ILE:CD1	2.35	0.55
45:RL:315:ALA:C	45:RL:316:LEU:HD12	2.27	0.55
45:RL:317:PHE:CZ	45:RL:326:VAL:HG13	2.40	0.55
45:RL:324:LYS:HE2	44:RM:210:TYR:HB3	1.87	0.55
45:RN:20:PHE:HB2	45:RN:233:MET:HE1	1.88	0.55
45:RN:207:LEU:CB	45:RN:225:LEU:HD22	2.36	0.55
45:RN:375:GLN:HA	45:RN:378:PHE:HD2	1.72	0.55
44:SC:195:LEU:C	44:SC:266:HIS:HE2	2.08	0.55
44:SE:111:GLY:O	44:SE:115:VAL:N	2.35	0.55
44:SE:203:MET:CG	44:SE:384:ILE:HD11	2.22	0.55
44:SE:363:VAL:HG13	44:SE:366:GLY:HA3	1.89	0.55
45:SF:113:ILE:HA	45:SF:116:VAL:CG1	2.35	0.55
45:SF:164:MET:HE3	45:SF:197:ASP:N	2.21	0.55
45:SH:192:LEU:HG	45:SH:196:ALA:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:316:LEU:HG	45:SH:352:SER:CB	2.32	0.55
45:SJ:178:THR:CG2	45:SJ:180:VAL:HG12	2.37	0.55
44:SM:21:TRP:HZ3	44:SM:87:PHE:HE1	1.54	0.55
45:TB:178:THR:HG22	45:TB:180:VAL:H	1.70	0.55
45:TB:317:PHE:CE2	45:TB:326:VAL:HG22	2.42	0.55
45:TD:172:SER:HB2	45:TD:173:PRO:CD	2.36	0.55
45:TD:204:ASN:HA	45:TD:207:LEU:HD12	1.89	0.55
45:TF:175:VAL:HG11	45:TF:208:TYR:HE2	1.70	0.55
45:TJ:6:HIS:HE1	45:TJ:20:PHE:HD2	1.55	0.55
45:TJ:7:ILE:HG12	45:TJ:64:ILE:HB	1.88	0.55
45:TL:287:PRO:CA	45:TL:290:THR:HG22	2.32	0.55
45:TN:174:LYS:HD2	45:TN:175:VAL:HG13	1.88	0.55
45:TN:257:LEU:HD21	45:TN:314:SER:CB	2.36	0.55
44:UA:203:MET:HG3	44:UA:303:ALA:CB	2.36	0.55
45:UD:141:GLY:HA2	48:UD:501:GDP:O2A	2.07	0.55
45:UD:351:SER:HB2	44:UE:179:THR:HG23	1.89	0.55
44:UE:91:GLN:HG2	44:UE:121:ARG:NH1	2.21	0.55
45:UF:283:ALA:O	45:UF:288:GLU:HG3	2.06	0.55
45:UF:324:LYS:CG	44:UG:222:PRO:HG2	2.25	0.55
45:UH:325:GLU:HB2	45:UH:328:GLU:CG	2.35	0.55
44:UI:126:ALA:HA	44:UI:129:CYS:HB2	1.88	0.55
44:UI:262:TYR:HB3	44:UI:263:PRO:HD2	1.87	0.55
44:UI:306:ASP:OD2	44:UI:308:ARG:NH2	2.36	0.55
44:UI:326:LYS:HB3	45:UJ:220:PRO:HB2	1.87	0.55
45:UJ:32:PRO:HG3	45:UJ:81:PHE:CZ	2.41	0.55
45:UJ:173:PRO:HB3	45:UJ:384:GLN:OE1	2.06	0.55
44:UK:2:ARG:CA	44:UK:133:GLN:HE22	2.14	0.55
44:UK:9:VAL:HG22	44:UK:145:THR:O	2.06	0.55
44:UK:135:PHE:O	44:UK:136:LEU:HD23	2.05	0.55
44:UK:180:ALA:CB	44:UK:183:GLU:HB3	2.37	0.55
45:UL:110:ALA:O	45:UL:113:ILE:HG22	2.05	0.55
45:UL:148:GLY:O	45:UL:152:ILE:HG12	2.06	0.55
44:UM:138:PHE:CD2	44:UM:169:PHE:HB2	2.41	0.55
44:UM:271:SER:CB	44:UM:377:MET:HB2	2.23	0.55
45:UN:19:LYS:O	45:UN:22:GLU:HG2	2.05	0.55
45:UN:21:TRP:CZ3	45:UN:61:PRO:HB3	2.42	0.55
45:UN:383:GLU:HA	45:UN:386:THR:HG22	1.87	0.55
44:VA:275:ILE:HG23	44:VA:368:LEU:HD11	1.87	0.55
44:VG:231:ILE:HD11	44:VG:302:MET:HE1	1.87	0.55
45:VH:420:SER:O	45:VH:423:GLN:HG3	2.06	0.55
44:VI:75:ILE:HG22	44:VI:79:ARG:NH1	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:232:ALA:O	44:VI:236:SER:N	2.39	0.55
44:VI:312:TYR:HA	44:VI:380:ASN:O	2.07	0.55
45:VL:3:GLU:OE2	45:VL:127:CYS:HB2	2.05	0.55
45:VL:49:VAL:HG11	45:VL:240:LEU:HD22	1.87	0.55
45:VL:387:ALA:O	45:VL:390:ARG:HG2	2.06	0.55
44:VM:145:THR:HG23	46:VM:501:GTP:O1B	2.06	0.55
45:VN:293:MET:SD	45:VN:367:PHE:HB2	2.46	0.55
45:VN:315:ALA:HB3	45:VN:351:SER:HA	1.88	0.55
44:WA:123:ARG:NE	44:WA:123:ARG:HA	2.20	0.55
45:WB:40:SER:N	45:WB:43:GLN:OE1	2.39	0.55
45:WB:112:LEU:HD23	45:WB:112:LEU:O	2.05	0.55
45:WB:215:LEU:O	45:WB:216:LYS:HG2	2.06	0.55
44:WC:145:THR:N	46:WC:501:GTP:O3B	2.36	0.55
44:WE:183:GLU:N	44:WE:184:PRO:HD2	2.22	0.55
45:WF:24:ILE:HD12	45:WF:24:ILE:H	1.71	0.55
45:WF:202:ILE:HG23	45:WF:300:MET:HG2	1.88	0.55
44:WG:133:GLN:C	44:WG:164:LYS:HE3	2.27	0.55
44:WG:233:GLN:HB3	44:WG:272:TYR:HE1	1.72	0.55
45:WH:268:ILE:HG22	45:WH:368:VAL:HG22	1.86	0.55
45:WH:314:SER:HB2	45:WH:350:LYS:HD3	1.87	0.55
45:WH:377:MET:CE	45:WH:380:ARG:HD2	2.37	0.55
44:WI:394:LYS:NZ	45:WJ:346:PRO:HB2	2.22	0.55
45:WJ:105:HIS:CD2	45:WJ:150:LEU:HB2	2.42	0.55
44:WK:2:ARG:HD3	44:WK:242:LEU:HD22	1.86	0.55
44:WK:6:SER:OG	44:WK:65:ALA:HA	2.06	0.55
44:WK:306:ASP:HB3	44:WK:309:HIS:CG	2.41	0.55
45:WL:8:GLN:NE2	45:WL:17:GLY:HA3	2.20	0.55
44:WM:66:VAL:HG13	44:WM:66:VAL:O	2.07	0.55
7:0F:53:ALA:CB	44:EE:279:GLU:HG3	2.29	0.55
4:1C:75:LEU:HG	45:EL:362:LYS:HG2	1.87	0.55
26:1R:391:SER:O	45:ED:276:ARG:NH1	2.01	0.55
12:1S:43:TYR:HB2	44:WC:88:HIS:HE2	1.68	0.55
15:1V:172:LYS:NZ	44:MK:423:GLU:OE2	2.38	0.55
16:1X:30:GLU:CD	45:MH:276:ARG:HB2	2.26	0.55
17:2B:3:TRP:HB2	45:LL:320:ARG:NH2	2.12	0.55
26:2R:146:ILE:HG12	45:BJ:277:GLY:CA	2.36	0.55
28:3C:65:PHE:CE2	44:LA:33:ASP:HB2	2.41	0.55
22:3L:57:ARG:NH2	45:AB:47:ILE:HG22	2.21	0.55
14:3U:236:LEU:HB2	45:WN:33:THR:HG22	1.88	0.55
11:4Q:109:GLN:NE2	44:AI:420:GLU:OE2	2.39	0.55
38:5G:36:PRO:HA	44:OG:282:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5H:44:ARG:HB3	44:OK:285:GLN:OE1	2.06	0.55
38:5H:118:PRO:O	38:5H:119:GLU:HB2	2.05	0.55
39:5I:66:SER:HA	39:5I:69:LYS:HB2	1.89	0.55
11:5Q:92:GLN:HG3	11:5Q:101:ARG:O	2.07	0.55
35:5R:150:ILE:HG12	35:5R:174:PHE:HE1	1.72	0.55
36:5S:131:GLY:CA	36:5S:135:ILE:HD11	2.28	0.55
35:7R:118:LEU:HD11	35:7R:127:ILE:CG1	2.36	0.55
35:7R:378:ILE:HG13	35:7R:378:ILE:O	2.06	0.55
35:7R:410:ARG:C	35:7R:411:LYS:HD3	2.27	0.55
43:8R:160:UNK:O	43:8R:163:UNK:N	2.40	0.55
44:AA:14:ILE:HD11	44:AA:69:ASP:HB2	1.87	0.55
45:AB:68:LEU:HG	45:AB:96:GLY:HA2	1.88	0.55
45:AB:421:GLU:HA	45:AB:424:GLN:CD	2.26	0.55
44:AC:288:VAL:CA	44:AC:291:ILE:HG12	2.37	0.55
45:AD:12:CYS:SG	45:AD:138:SER:HB2	2.46	0.55
45:AF:135:ILE:N	45:AF:165:GLU:O	2.29	0.55
44:AG:113:GLU:O	44:AG:114:ILE:HD13	2.06	0.55
44:AG:182:VAL:HG22	44:AG:182:VAL:O	2.07	0.55
44:AI:268:MET:HG3	44:AI:378:ILE:HG22	1.89	0.55
45:AJ:31:ASP:HB3	45:AJ:32:PRO:HD2	1.88	0.55
45:AJ:308:GLY:HA2	45:AJ:426:GLN:NE2	2.22	0.55
44:AK:183:GLU:N	44:AK:184:PRO:HD2	2.20	0.55
44:AK:272:TYR:CE1	44:AK:376:CYS:HB2	2.42	0.55
44:AK:289:ALA:O	44:AK:292:THR:HG22	2.06	0.55
44:AK:407:TRP:CE3	45:AL:255:VAL:HA	2.40	0.55
45:AL:342:VAL:HG13	45:AL:345:ILE:CG2	2.35	0.55
44:BA:6:SER:O	44:BA:7:ILE:HD13	2.06	0.55
44:BC:145:THR:H	46:BC:501:GTP:PG	2.29	0.55
44:BC:384:ILE:O	44:BC:387:VAL:HG22	2.06	0.55
44:BE:120:ASP:O	44:BE:124:LYS:HG3	2.07	0.55
44:BE:204:LEU:HD22	44:BE:231:ILE:CD1	2.36	0.55
44:BG:344:VAL:HG21	44:BG:346:TRP:CE2	2.41	0.55
45:BH:47:ILE:HG12	45:BH:51:TYR:HB2	1.87	0.55
44:BM:177:VAL:CG2	45:BN:327:ASP:HB3	2.36	0.55
44:CC:427:ALA:O	44:CC:430:LYS:HG3	2.05	0.55
44:CE:287:SER:O	44:CE:291:ILE:HG23	2.07	0.55
44:CG:175:PRO:HG2	44:CG:304:LYS:HG2	1.88	0.55
44:CG:204:LEU:HD22	44:CG:231:ILE:CD1	2.36	0.55
44:CG:350:GLY:HA2	45:CH:179:VAL:CG1	2.33	0.55
44:CI:19:ALA:HA	44:CI:22:GLU:OE1	2.06	0.55
44:CI:99:ALA:HB3	44:CI:145:THR:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:245:GLN:C	45:CJ:246:LEU:HD12	2.26	0.55
45:CL:143:THR:HG22	48:CL:501:GDP:PB	2.47	0.55
45:DB:103:LYS:O	45:DB:107:THR:OG1	2.24	0.55
44:DC:11:GLN:HG3	44:DC:74:VAL:CG1	2.34	0.55
44:DC:315:CYS:N	44:DC:350:GLY:O	2.39	0.55
45:DD:6:HIS:HE2	45:DD:8:GLN:CB	2.20	0.55
44:DG:60:LYS:HD3	44:EG:283:HIS:CD2	2.41	0.55
44:DK:324:VAL:HG13	44:DK:325:PRO:HD2	1.89	0.55
44:EA:205:ASP:OD2	44:EA:304:LYS:HG3	2.07	0.55
44:EA:278:ALA:CA	44:EA:369:ALA:HB2	2.36	0.55
45:EB:316:LEU:HB2	45:EB:366:THR:CB	2.30	0.55
44:EC:268:MET:CB	44:EC:380:ASN:HB2	2.37	0.55
45:ED:322:SER:OG	44:EE:221:ARG:NH1	2.39	0.55
44:EE:208:ALA:HB2	44:EE:304:LYS:HE3	1.89	0.55
44:EE:223:THR:CG2	44:EE:225:THR:HG23	2.35	0.55
45:EF:172:SER:HB2	45:EF:205:GLU:HB2	1.87	0.55
45:EF:178:THR:HG22	45:EF:180:VAL:HG12	1.89	0.55
45:EH:260:PHE:HB3	45:EH:261:PRO:HD2	1.89	0.55
44:EI:88:HIS:HE1	44:EI:90:GLU:HG2	1.69	0.55
44:EI:173:PRO:HD3	44:EI:187:SER:OG	2.07	0.55
44:EI:183:GLU:N	44:EI:184:PRO:HD2	2.21	0.55
45:EJ:189:VAL:HG11	45:EJ:378:PHE:CZ	2.40	0.55
45:EJ:272:PRO:HD3	45:EJ:289:LEU:CD2	2.36	0.55
45:EN:172:SER:HB3	45:EN:203:ASP:OD1	2.06	0.55
44:FA:110:ILE:HG13	44:FA:111:GLY:N	2.21	0.55
45:FB:198:GLU:HG2	45:FB:266:PHE:HE2	1.71	0.55
45:FD:270:PHE:CD2	45:FD:273:LEU:HD21	2.42	0.55
44:FE:221:ARG:CD	45:FF:322:SER:HB2	2.37	0.55
45:FF:242:PHE:HD2	45:FF:356:ILE:CB	2.19	0.55
44:FG:237:SER:HA	44:FG:320:ARG:HH22	1.68	0.55
44:FG:306:ASP:HB3	44:FG:309:HIS:CG	2.42	0.55
45:FH:318:ARG:HD3	45:FH:358:PRO:HD3	1.88	0.55
45:FJ:405:GLU:O	45:FJ:409:THR:HG23	2.06	0.55
44:FK:195:LEU:HD12	44:FK:266:HIS:NE2	2.21	0.55
44:FK:253:THR:O	44:FK:257:THR:HG23	2.06	0.55
44:FK:253:THR:HG23	44:FK:254:GLU:HG3	1.89	0.55
45:FL:257:LEU:HD11	45:FL:314:SER:HB2	1.87	0.55
45:FN:138:SER:O	45:FN:145:SER:HA	2.04	0.55
44:GA:87:PHE:HB3	44:GA:92:LEU:HD11	1.88	0.55
44:GA:219:ILE:HG22	44:GA:222:PRO:CD	2.34	0.55
45:GB:54:ALA:HA	45:HB:283:ALA:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:180:VAL:O	45:GB:180:VAL:HG22	2.06	0.55
45:GD:101:TRP:O	45:GD:104:GLY:N	2.38	0.55
44:GE:183:GLU:N	44:GE:184:PRO:HD2	2.21	0.55
44:GE:279:GLU:OE1	44:GE:279:GLU:N	2.39	0.55
44:GE:394:LYS:HG2	45:GF:346:PRO:HG3	1.89	0.55
45:GF:114:ASP:OD1	45:GF:115:SER:N	2.39	0.55
45:GF:237:THR:CG2	45:GF:250:LEU:HD21	2.36	0.55
44:GG:10:GLY:O	44:GG:13:GLY:N	2.40	0.55
45:GH:161:ASP:O	45:GH:162:ARG:NH2	2.40	0.55
44:GI:216:ASN:HB3	44:GI:275:ILE:O	2.07	0.55
45:GJ:183:TYR:O	45:GJ:187:LEU:HG	2.06	0.55
45:GJ:309:ARG:NE	45:GJ:339:SER:O	2.39	0.55
44:GM:139:ASN:O	44:GM:170:THR:HA	2.07	0.55
45:GN:273:LEU:H	45:GN:292:GLN:HE22	1.52	0.55
44:HA:99:ALA:HB1	44:HA:105:ARG:HB2	1.88	0.55
44:HA:288:VAL:HG23	44:HA:291:ILE:HD11	1.88	0.55
44:HA:308:ARG:O	44:HA:340:THR:OG1	2.20	0.55
45:HB:70:PRO:HG3	45:HB:92:PHE:CD1	2.41	0.55
45:HB:102:ALA:HB2	45:HB:398:TYR:HD1	1.72	0.55
45:HB:270:PHE:CZ	45:HB:358:PRO:HG2	2.41	0.55
44:HC:105:ARG:HG2	44:HC:411:GLU:OE1	2.06	0.55
44:HC:332:ILE:O	44:HC:335:ILE:HG22	2.06	0.55
44:HC:406:HIS:CE1	45:HD:261:PRO:HD3	2.41	0.55
44:HE:225:THR:O	44:HE:228:ASN:HB2	2.06	0.55
44:HI:11:GLN:CG	46:HI:501:GTP:C8	2.88	0.55
44:HI:271:SER:HB2	44:HI:377:MET:SD	2.45	0.55
44:HI:315:CYS:HB3	44:HI:351:PHE:CE1	2.40	0.55
45:HJ:7:ILE:HD11	45:HJ:120:VAL:HG22	1.88	0.55
45:HJ:20:PHE:O	45:HJ:24:ILE:HG12	2.05	0.55
45:HJ:148:GLY:O	45:HJ:152:ILE:HG12	2.05	0.55
44:HK:9:VAL:HG11	44:HK:153:LEU:CD1	2.37	0.55
45:HL:166:THR:OG1	45:HL:199:CYS:HA	2.05	0.55
45:HL:262:ARG:NH1	45:HL:421:GLU:OE1	2.40	0.55
44:HM:285:GLN:HG3	44:HM:290:GLU:OE2	2.06	0.55
45:HN:165:GLU:OE2	45:HN:250:LEU:HD13	2.06	0.55
44:IA:28:HIS:CE1	44:IA:243:ARG:HD2	2.42	0.55
45:IB:286:VAL:HA	45:IB:289:LEU:CB	2.36	0.55
45:IB:303:ALA:HB2	45:IB:377:MET:CE	2.37	0.55
45:IB:398:TYR:HB3	45:IB:403:MET:HE2	1.88	0.55
44:IC:123:ARG:HH12	44:IC:127:ASP:HB2	1.71	0.55
44:IC:195:LEU:HA	44:IC:266:HIS:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:142:GLY:O	45:ID:145:SER:OG	2.19	0.55
45:ID:233:MET:O	45:ID:236:VAL:HG12	2.06	0.55
45:IF:174:LYS:HE3	45:IF:205:GLU:OE1	2.05	0.55
45:IF:217:LEU:O	45:IF:217:LEU:HD12	2.05	0.55
45:IH:272:PRO:O	45:IH:273:LEU:HD22	2.06	0.55
44:IK:31:GLN:HB3	44:IK:32:PRO:CD	2.35	0.55
44:IK:141:VAL:CG1	44:IK:187:SER:HA	2.36	0.55
44:IM:9:VAL:HG21	44:IM:149:LEU:CB	2.33	0.55
44:IM:91:GLN:O	44:IM:93:ILE:HD12	2.06	0.55
44:IM:178:SER:HB2	44:IM:183:GLU:OE2	2.06	0.55
44:IM:208:ALA:O	44:IM:212:ILE:HG12	2.05	0.55
45:IN:293:MET:HA	45:IN:298:ASN:ND2	2.21	0.55
45:JD:101:TRP:CZ3	45:JD:187:LEU:CB	2.88	0.55
45:JF:209:ASP:OD1	45:JF:210:ILE:N	2.40	0.55
44:JI:260:VAL:O	44:JI:260:VAL:HG23	2.07	0.55
44:JK:177:VAL:HG22	45:JL:331:LEU:CD1	2.36	0.55
44:JK:217:LEU:HD12	44:JK:367:ASP:HB3	1.88	0.55
44:JK:261:PRO:HB2	44:JK:262:TYR:CD1	2.42	0.55
45:JL:318:ARG:HD2	45:JL:356:ILE:O	2.07	0.55
44:JM:24:PHE:O	44:JM:27:GLU:HG2	2.06	0.55
44:JM:318:MET:HA	44:JM:318:MET:CE	2.36	0.55
44:KA:52:PHE:HE2	44:KA:239:THR:HG21	1.72	0.55
44:KC:12:GLY:O	44:KC:16:VAL:HG12	2.06	0.55
45:KD:313:ALA:O	45:KD:349:ILE:HG13	2.06	0.55
44:KE:202:VAL:HA	44:KE:268:MET:O	2.07	0.55
44:KG:100:ALA:O	44:KG:102:ASN:ND2	2.40	0.55
44:KG:428:LEU:HA	44:KG:431:ASP:OD2	2.06	0.55
45:KH:406:MET:O	45:KH:409:THR:HG22	2.06	0.55
44:KI:6:SER:O	44:KI:7:ILE:HD13	2.06	0.55
44:KI:407:TRP:HZ3	45:KJ:255:VAL:CA	2.12	0.55
44:KI:422:ARG:HD2	44:KI:422:ARG:O	2.07	0.55
44:KK:183:GLU:N	44:KK:184:PRO:HD2	2.20	0.55
45:KL:237:THR:HG22	45:KL:250:LEU:HD21	1.87	0.55
44:KM:242:LEU:HD11	44:KM:252:ILE:CD1	2.37	0.55
44:LC:183:GLU:CD	44:LC:184:PRO:HD3	2.26	0.55
44:LC:259:LEU:HD11	44:LC:316:SER:CB	2.37	0.55
45:LD:293:MET:HE1	45:LD:365:VAL:CG1	2.37	0.55
44:LE:108:TYR:HA	44:LE:112:LYS:HZ3	1.70	0.55
44:LG:200:VAL:HG13	44:LG:268:MET:CE	2.37	0.55
44:LG:274:PRO:HB2	44:LG:276:ILE:HD11	1.88	0.55
44:LG:291:ILE:HD12	44:LG:375:VAL:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:101:TRP:HE1	45:LH:146:GLY:HA2	1.71	0.55
45:LH:178:THR:O	45:LH:181:GLU:HG3	2.06	0.55
45:LJ:418:LEU:CA	45:LJ:421:GLU:HG2	2.36	0.55
45:LL:360:GLY:O	45:LL:361:LEU:HD22	2.07	0.55
44:LM:35:GLN:HG3	44:LM:59:GLY:C	2.27	0.55
44:LM:271:SER:HB3	44:LM:377:MET:HB3	1.88	0.55
44:LM:404:PHE:CZ	45:LN:259:PRO:HA	2.42	0.55
45:MB:141:GLY:HA3	48:MB:501:GDP:O3A	2.07	0.55
45:MB:165:GLU:OE2	45:MB:250:LEU:HD22	2.06	0.55
45:MB:180:VAL:O	45:MB:180:VAL:HG12	2.05	0.55
45:MB:204:ASN:HA	45:MB:207:LEU:CD1	2.35	0.55
45:MB:237:THR:HG22	45:MB:250:LEU:CD2	2.24	0.55
44:MC:67:PHE:C	44:MC:68:LEU:HD22	2.26	0.55
44:MC:221:ARG:HG2	45:MD:322:SER:CB	2.36	0.55
45:MD:186:THR:OG1	45:MD:415:MET:HE3	2.07	0.55
45:MD:313:ALA:O	45:MD:349:ILE:HA	2.06	0.55
44:MK:325:PRO:HA	44:MK:328:VAL:HG12	1.87	0.55
44:MM:31:GLN:HG3	44:MM:32:PRO:CD	2.33	0.55
44:MM:141:VAL:HG13	44:MM:190:SER:OG	2.06	0.55
44:MM:204:LEU:HD23	44:MM:302:MET:HE1	1.89	0.55
44:MM:207:GLU:HG2	44:MM:304:LYS:HZ2	1.69	0.55
44:NA:291:ILE:HG13	44:NA:292:THR:N	2.22	0.55
45:NB:217:LEU:HD11	45:NB:220:PRO:CB	2.37	0.55
44:NC:301:MET:CE	44:NC:307:PRO:HG2	2.36	0.55
45:ND:318:ARG:CB	45:ND:364:ALA:HB3	2.30	0.55
44:NE:295:ALA:HB1	44:NE:377:MET:CG	2.36	0.55
45:NF:12:CYS:O	45:NF:16:ILE:HG12	2.06	0.55
45:NF:86:ARG:HA	45:OF:281:TYR:HD2	1.69	0.55
44:NG:11:GLN:CG	44:NG:74:VAL:HG11	2.36	0.55
44:NG:244:PHE:CD2	44:NG:358:GLN:HG3	2.41	0.55
45:NH:242:PHE:CE2	45:NH:356:ILE:HD11	2.40	0.55
45:NJ:22:GLU:HA	45:NJ:81:PHE:CD2	2.41	0.55
45:NL:54:ALA:CA	45:OL:283:ALA:HB2	2.36	0.55
44:NM:183:GLU:HG2	44:NM:184:PRO:CD	2.36	0.55
44:NM:274:PRO:HG2	44:NM:371:VAL:HG21	1.88	0.55
44:NM:311:LYS:HE2	44:NM:438:GLU:OE2	2.07	0.55
45:NN:2:ARG:HB2	45:NN:131:GLN:HG3	1.87	0.55
45:NN:52:ASN:OD1	45:NN:62:ARG:NH2	2.39	0.55
45:NN:284:LEU:HD11	45:NN:363:MET:HB3	1.89	0.55
44:OA:79:ARG:O	44:OA:84:ARG:HB2	2.05	0.55
44:OA:261:PRO:HA	45:OD:394:PHE:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:34:GLY:C	45:OD:58:ARG:HG3	2.26	0.55
45:OD:103:LYS:HG2	45:OD:108:GLU:OE2	2.06	0.55
45:OD:398:TYR:HB3	45:OD:403:MET:CG	2.36	0.55
45:OF:64:ILE:HG12	45:OF:119:VAL:CG2	2.37	0.55
45:OF:423:GLN:NE2	45:OF:427:ASP:OD2	2.40	0.55
44:OI:22:GLU:HG2	44:OI:83:TYR:CE2	2.41	0.55
44:OI:220:GLU:HB3	44:OI:221:ARG:HH11	1.71	0.55
45:OJ:242:PHE:CE2	45:OJ:356:ILE:HG21	2.41	0.55
45:OL:268:ILE:HG13	45:OL:300:MET:HE2	1.87	0.55
45:OL:294:PHE:HE1	45:OL:367:PHE:CE1	2.23	0.55
44:PA:52:PHE:HZ	44:PA:239:THR:HG21	1.72	0.55
44:PA:213:CYS:O	44:PA:217:LEU:HB2	2.07	0.55
45:PB:390:ARG:O	45:PB:392:LYS:NZ	2.37	0.55
44:PC:297:GLU:HB2	44:PC:300:ASN:ND2	2.21	0.55
45:PD:25:SER:HB2	45:PD:81:PHE:CE2	2.40	0.55
45:PD:231:ALA:HB1	45:PD:270:PHE:CE1	2.41	0.55
44:PE:209:ILE:CG2	44:PE:227:LEU:HD22	2.36	0.55
45:PF:60:VAL:O	45:PF:60:VAL:HG23	2.05	0.55
45:PF:178:THR:HB	45:PF:181:GLU:CG	2.29	0.55
44:PG:68:LEU:HG	44:PG:93:ILE:HB	1.88	0.55
44:PG:288:VAL:O	44:PG:291:ILE:HG12	2.07	0.55
44:PI:88:HIS:HE1	44:PI:90:GLU:HG2	1.70	0.55
45:PJ:271:ALA:O	45:PJ:364:ALA:HB1	2.06	0.55
45:PJ:375:GLN:O	45:PJ:379:LYS:N	2.36	0.55
44:PK:170:THR:O	44:PK:204:LEU:HB2	2.07	0.55
44:PK:285:GLN:O	44:PK:286:LEU:HB2	2.05	0.55
44:PK:288:VAL:CA	44:PK:373:ARG:HE	2.20	0.55
45:PL:64:ILE:HD11	45:PL:123:GLU:HG3	1.87	0.55
45:PL:238:CYS:SG	45:PL:318:ARG:NE	2.80	0.55
45:PL:270:PHE:HD2	45:PL:273:LEU:HD21	1.71	0.55
44:PM:93:ILE:HD12	44:PM:93:ILE:H	1.72	0.55
44:PM:118:CYS:O	44:PM:122:ILE:N	2.24	0.55
44:PM:311:LYS:O	44:PM:381:SER:HA	2.06	0.55
45:QB:382:ALA:HA	45:QB:385:PHE:HB3	1.89	0.55
44:QC:183:GLU:N	44:QC:184:PRO:HD2	2.21	0.55
44:QC:188:ILE:CG2	44:QC:425:LEU:HD11	2.36	0.55
45:QD:19:LYS:HA	45:QD:22:GLU:HB2	1.87	0.55
45:QD:190:HIS:O	45:QD:193:VAL:HG12	2.06	0.55
44:QE:183:GLU:HG2	44:QE:184:PRO:CD	2.36	0.55
45:QF:66:MET:HE2	45:QF:147:MET:HG2	1.89	0.55
44:QI:98:ASP:O	44:QI:105:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:116:VAL:HG22	45:QL:120:VAL:CG2	2.36	0.55
45:QN:302:ALA:HB3	45:QN:377:MET:CE	2.37	0.55
45:RD:317:PHE:HE2	45:RD:326:VAL:HG13	1.70	0.55
45:RD:414:ASN:HA	45:RD:417:ASP:HB3	1.88	0.55
45:RF:119:VAL:HA	45:RF:122:LYS:HZ2	1.70	0.55
44:RG:105:ARG:HB3	44:RG:110:ILE:HD13	1.88	0.55
44:RG:238:LEU:HA	44:RG:318:MET:SD	2.45	0.55
45:RH:236:VAL:HG13	45:RH:253:LEU:HD22	1.89	0.55
45:RJ:182:PRO:HG2	45:RJ:388:MET:HE3	1.86	0.55
45:RJ:374:ILE:HD12	45:RJ:378:PHE:CE2	2.42	0.55
44:RK:141:VAL:CG1	44:RK:172:TYR:HA	2.36	0.55
45:RL:290:THR:HG21	45:RL:329:GLN:OE1	2.06	0.55
44:RM:346:TRP:HA	45:RN:390:ARG:HH12	1.70	0.55
45:RN:6:His:O	45:RN:63:ALA:HA	2.06	0.55
45:RN:285:THR:O	45:RN:287:PRO:HD2	2.07	0.55
45:RN:372:THR:HA	45:RN:422:TYR:CE2	2.38	0.55
45:SB:1:MET:CE	45:SB:2:ARG:HD3	2.36	0.55
44:SC:183:GLU:N	44:SC:184:PRO:HD2	2.20	0.55
44:SC:236:SER:HA	44:SC:239:THR:OG1	2.06	0.55
45:SD:86:ARG:HH12	45:TD:281:TYR:CB	2.20	0.55
45:SD:286:VAL:HA	45:SD:289:LEU:HB2	1.88	0.55
44:SE:48:ALA:HB1	44:SE:243:ARG:HB2	1.88	0.55
44:SG:271:SER:OG	44:SG:301:MET:HA	2.06	0.55
45:SH:55:THR:CG2	45:TH:283:ALA:HA	2.34	0.55
44:SI:311:LYS:HE2	44:SI:342:GLN:NE2	2.21	0.55
44:SI:321:GLY:HA2	44:SI:359:PRO:HA	1.89	0.55
45:SJ:5:VAL:HG12	45:SJ:62:ARG:HD2	1.89	0.55
45:SJ:172:SER:HG	45:SJ:205:GLU:HB2	1.71	0.55
45:SJ:341:PHE:HB3	45:SJ:348:ASN:ND2	2.21	0.55
44:SK:206:ASN:CG	46:SK:501:GTP:HN22	2.08	0.55
44:SK:372:MET:O	44:SK:373:ARG:HD3	2.06	0.55
44:SM:6:SER:O	44:SM:7:ILE:HD13	2.05	0.55
44:SM:200:VAL:HG13	44:SM:268:MET:SD	2.46	0.55
44:SM:269:LEU:HD23	44:SM:269:LEU:H	1.72	0.55
44:TA:88:His:ND1	44:TA:90:GLU:HG2	2.22	0.55
44:TA:104:ALA:HB2	44:TA:413:MET:HE2	1.87	0.55
44:TA:141:VAL:HG12	44:TA:171:ILE:O	2.05	0.55
44:TA:183:GLU:HG2	44:TA:184:PRO:HD3	1.88	0.55
44:TA:217:LEU:HD13	44:TA:367:ASP:CB	2.37	0.55
45:TB:1:MET:SD	45:TB:2:ARG:N	2.79	0.55
45:TD:304:ASP:OD1	45:TD:306:ARG:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:288:VAL:HG11	44:TE:327:ASP:HB3	1.89	0.55
44:TG:47:ASP:HA	44:TG:49:PHE:CE2	2.41	0.55
45:TH:32:PRO:HG3	45:TH:81:PHE:CZ	2.41	0.55
44:TI:268:MET:HB2	44:TI:380:ASN:CA	2.36	0.55
44:TI:270:SER:HB2	44:TI:378:ILE:HD13	1.89	0.55
45:TL:135:ILE:HB	45:TL:166:THR:HG22	1.87	0.55
45:TL:231:ALA:HB1	45:TL:270:PHE:CE1	2.41	0.55
45:TL:268:ILE:HG13	45:TL:300:MET:HE2	1.87	0.55
44:TM:137:VAL:HG13	44:TM:168:GLY:HA2	1.87	0.55
45:TN:272:PRO:HD3	45:TN:289:LEU:HD21	1.88	0.55
44:UC:157:LEU:HA	44:UC:160:ASP:HB2	1.89	0.55
44:UC:213:CYS:SG	44:UC:217:LEU:HD12	2.46	0.55
45:UD:255:VAL:HG21	44:UE:100:ALA:O	2.06	0.55
45:UD:322:SER:HB2	44:UE:221:ARG:CZ	2.36	0.55
44:UE:114:ILE:CD1	44:UE:117:LEU:HD21	2.34	0.55
45:UF:131:GLN:HE21	45:UF:250:LEU:CD2	2.18	0.55
45:UF:139:LEU:HD23	45:UF:188:SER:OG	2.06	0.55
45:UF:322:SER:HB3	44:UG:221:ARG:NE	2.21	0.55
45:UH:5:VAL:HG22	45:UH:133:PHE:HE1	1.72	0.55
45:UH:55:THR:CG2	45:VH:283:ALA:HA	2.17	0.55
45:UH:322:SER:CB	45:UH:323:THR:CA	2.79	0.55
44:UI:13:GLY:O	44:UI:16:VAL:HG22	2.07	0.55
44:UI:392:ASP:OD1	44:UI:393:HIS:N	2.39	0.55
45:UJ:285:THR:HG23	45:UJ:288:GLU:H	1.71	0.55
44:UK:278:ALA:N	44:UK:369:ALA:HB2	2.21	0.55
44:UK:360:PRO:HG2	44:UK:374:ALA:HB3	1.88	0.55
45:UL:208:TYR:CE1	45:UL:225:LEU:HD11	2.42	0.55
44:VA:274:PRO:N	44:VA:291:ILE:HD11	2.21	0.55
44:VA:348:PRO:CD	45:VD:388:MET:HE2	2.35	0.55
44:VA:384:ILE:HG13	44:VA:387:VAL:CG2	2.37	0.55
44:VE:104:ALA:CB	44:VE:411:GLU:HB2	2.36	0.55
44:VE:398:MET:CE	45:VF:345:ILE:HG13	2.36	0.55
45:VF:270:PHE:CD2	45:VF:273:LEU:HD21	2.41	0.55
44:VG:54:SER:HA	44:VG:64:ARG:HH21	1.71	0.55
44:VG:219:ILE:O	44:VG:222:PRO:HD3	2.07	0.55
44:VG:377:MET:O	44:VG:378:ILE:HD13	2.06	0.55
44:VI:1:MET:O	44:VI:131:GLY:HA3	2.06	0.55
44:VI:431:ASP:O	44:VI:435:VAL:HG23	2.07	0.55
45:VJ:289:LEU:HD13	45:VJ:365:VAL:CG2	2.32	0.55
45:VJ:323:THR:O	45:VJ:326:VAL:N	2.36	0.55
45:VL:51:TYR:HE1	45:VL:61:PRO:HG3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:299:MET:HG3	45:VL:305:PRO:CG	2.24	0.55
44:VM:175:PRO:HD3	44:VM:390:ARG:CZ	2.35	0.55
45:VN:182:PRO:HG3	45:VN:384:GLN:NE2	2.21	0.55
44:WC:115:VAL:HG22	44:WC:119:LEU:HD23	1.88	0.55
45:WD:101:TRP:CD1	45:WD:146:GLY:HA2	2.41	0.55
45:WD:256:ASN:OD1	45:WD:350:LYS:HB2	2.06	0.55
44:WE:188:ILE:HG23	44:WE:425:LEU:HD12	1.87	0.55
45:WF:109:GLY:O	45:WF:113:ILE:HB	2.07	0.55
44:WG:406:HIS:NE2	45:WH:260:PHE:HA	2.21	0.55
44:WI:261:PRO:HA	45:WL:394:PHE:CE2	2.41	0.55
44:WI:287:SER:HB3	44:WI:290:GLU:CG	2.35	0.55
44:WI:287:SER:CB	44:WI:290:GLU:HG2	2.36	0.55
44:WI:288:VAL:HG23	44:WI:291:ILE:HD11	1.88	0.55
44:WI:319:TYR:HB2	44:WI:355:ILE:CD1	2.35	0.55
45:WN:242:PHE:HB2	45:WN:356:ILE:HD13	1.86	0.55
1:6H:174:MET:HG2	45:FB:320:ARG:HD2	1.87	0.55
5:0D:168:GLY:O	44:EC:84:ARG:NH2	2.40	0.55
5:1D:20:LYS:NZ	45:CF:55:THR:HA	2.21	0.55
20:1J:56:PRO:CB	45:ID:322:SER:HB3	2.35	0.55
22:1L:151:ARG:NH1	45:CH:357:PRO:HG2	2.22	0.55
23:1M:288:LEU:HD23	40:6F:56:LEU:O	2.06	0.55
15:1V:71:PHE:HB2	45:MJ:306:ARG:HH21	1.71	0.55
32:3I:199:VAL:HG12	44:GK:339:ARG:HG3	1.87	0.55
16:3X:8:TYR:CD1	44:MM:357:TYR:HB3	2.40	0.55
35:4R:105:GLU:CD	45:BH:279:GLN:HG3	2.26	0.55
36:4S:203:HIS:NE2	45:WD:54:ALA:HA	2.21	0.55
16:4X:30:GLU:CD	45:LL:276:ARG:HD3	2.27	0.55
38:5E:75:PHE:HB3	45:KB:421:GLU:OE2	2.06	0.55
38:5F:173:LYS:HD3	45:KH:194:GLU:HA	1.89	0.55
38:5F:185:LYS:O	38:5F:189:ILE:HG23	2.07	0.55
38:5G:42:TYR:HB2	44:OG:371:VAL:HG12	1.87	0.55
38:5G:140:ASN:HA	45:OL:279:GLN:HE22	1.69	0.55
35:5R:140:GLU:OE2	45:AL:77:ARG:NH2	2.38	0.55
35:5R:262:TRP:CZ2	35:5R:264:ASP:HB2	2.42	0.55
35:5R:436:GLU:HB2	45:FJ:280:GLN:NE2	2.21	0.55
36:5S:206:TYR:CD2	45:WH:86:ARG:HG2	2.41	0.55
40:6F:110:LYS:O	40:6F:115:LYS:HE3	2.06	0.55
11:6Q:96:ASP:OD1	11:6Q:149:ILE:HD11	2.06	0.55
35:6R:436:GLU:CD	45:FN:280:GLN:CD	2.65	0.55
35:7R:107:PRO:HA	45:BD:360:GLY:CA	2.37	0.55
42:8N:280:UNK:O	42:8N:284:UNK:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:257:LEU:CD2	45:AB:368:VAL:HG12	2.37	0.55
44:AC:141:VAL:HG23	44:AC:190:SER:OG	2.07	0.55
45:AD:372:THR:HA	45:AD:422:TYR:OH	2.05	0.55
44:AE:264:ARG:O	44:AE:266:HIS:ND1	2.39	0.55
45:AF:39:ASP:N	45:AF:43:GLN:OE1	2.32	0.55
45:AF:103:LYS:HE2	45:AF:108:GLU:HG3	1.88	0.55
45:AH:396:HIS:HA	45:AH:399:THR:HG22	1.88	0.55
44:AK:425:LEU:O	44:AK:429:GLU:HG3	2.07	0.55
44:AM:191:THR:HA	44:AM:194:LEU:HG	1.89	0.55
45:AN:11:GLN:O	45:AN:15:GLN:HG2	2.06	0.55
45:AN:239:CYS:SG	45:AN:248:SER:OG	2.59	0.55
44:BA:79:ARG:HE	44:BA:92:LEU:CB	2.19	0.55
44:BA:326:LYS:CE	45:BD:219:THR:HB	2.36	0.55
44:BE:54:SER:HB3	44:BE:64:ARG:CZ	2.36	0.55
45:BF:173:PRO:HG3	45:BF:380:ARG:HD3	1.86	0.55
45:BF:211:CYS:SG	45:BF:217:LEU:HD21	2.47	0.55
44:BG:88:HIS:CE1	44:BG:90:GLU:HG2	2.41	0.55
44:BG:256:GLN:HB2	44:BG:260:VAL:HG23	1.89	0.55
45:BH:22:GLU:HG2	45:BH:81:PHE:HD2	1.71	0.55
45:BH:186:THR:O	45:BH:189:VAL:HG12	2.06	0.55
44:BI:103:PHE:CD2	44:BI:189:LEU:HD13	2.42	0.55
44:BI:205:ASP:OD1	44:BI:303:ALA:HA	2.06	0.55
44:BI:407:TRP:HZ3	45:BJ:255:VAL:HA	1.72	0.55
45:BJ:51:TYR:HE1	45:BJ:61:PRO:HG3	1.70	0.55
44:BK:184:PRO:O	44:BK:187:SER:OG	2.24	0.55
44:BK:261:PRO:HA	45:BN:394:PHE:CE1	2.41	0.55
44:BM:180:ALA:HA	45:BN:350:LYS:HZ3	1.70	0.55
45:BN:164:MET:N	45:BN:197:ASP:OD2	2.40	0.55
44:CA:37:PRO:HG2	44:CA:40:LYS:O	2.07	0.55
44:CC:84:ARG:HG3	44:CC:85:GLN:NE2	2.20	0.55
44:CC:296:PHE:CE2	44:CC:335:ILE:HG21	2.42	0.55
44:CC:317:MET:HA	44:CC:377:MET:HA	1.87	0.55
44:CE:278:ALA:HB2	44:CE:369:ALA:HB2	1.88	0.55
45:CF:1:MET:HE2	45:CF:2:ARG:NH1	2.21	0.55
45:CF:178:THR:HB	45:CF:181:GLU:CG	2.37	0.55
45:CF:361:LEU:HB3	45:CF:362:LYS:C	2.26	0.55
45:CH:65:LEU:HD11	45:CH:85:PHE:CE1	2.42	0.55
45:CH:183:TYR:OH	45:CH:388:MET:HG2	2.05	0.55
44:CK:165:SER:HA	44:CK:199:ASP:OD2	2.07	0.55
44:CM:103:PHE:H	44:CM:408:TYR:HE1	1.55	0.55
44:CM:137:VAL:HG12	44:CM:168:GLY:HA2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:258:ILE:HG23	45:CN:263:LEU:O	2.07	0.55
44:DA:25:CYS:CA	44:DA:30:ILE:HB	2.36	0.55
44:DA:298:PRO:O	44:DA:301:MET:HG2	2.07	0.55
45:DB:256:ASN:OD1	44:DC:182:VAL:HG12	2.06	0.55
45:DF:31:ASP:HB3	45:DF:32:PRO:CD	2.36	0.55
45:DF:136:THR:CG2	45:DF:167:PHE:HB2	2.24	0.55
44:DG:181:VAL:HG12	44:DG:181:VAL:O	2.07	0.55
44:DK:20:CYS:CA	44:DK:232:ALA:HB1	2.36	0.55
44:DM:66:VAL:CG2	44:DM:121:ARG:HG2	2.36	0.55
45:EB:66:MET:HA	45:EB:91:VAL:CG1	2.37	0.55
45:EB:178:THR:N	45:EB:181:GLU:OE2	2.37	0.55
45:EB:217:LEU:CD1	45:EB:220:PRO:HG3	2.36	0.55
45:EB:324:LYS:CD	44:EC:222:PRO:HD2	2.36	0.55
44:EE:136:LEU:HD22	44:EE:167:LEU:HB2	1.88	0.55
45:EF:322:SER:O	45:EF:326:VAL:HG23	2.06	0.55
44:EG:55:GLU:OE1	44:EG:61:HIS:NE2	2.40	0.55
45:EH:124:ALA:CA	45:EH:130:LEU:HD21	2.37	0.55
45:EH:289:LEU:HD13	45:EH:365:VAL:HG21	1.88	0.55
44:EI:257:THR:HA	45:EJ:397:TRP:CZ2	2.40	0.55
44:EK:89:PRO:HD2	44:FI:280:LYS:HZ2	1.71	0.55
44:FA:161:TYR:HB3	44:FA:164:LYS:CE	2.34	0.55
44:FE:3:GLU:OE2	44:FE:129:CYS:HB3	2.06	0.55
45:FF:28:HIS:O	45:FF:43:GLN:NE2	2.39	0.55
45:FF:325:GLU:HA	45:FF:328:GLU:CG	2.34	0.55
44:FG:102:ASN:HB3	44:FG:105:ARG:HB2	1.89	0.55
45:FJ:166:THR:HG21	45:FJ:192:LEU:HD11	1.87	0.55
44:FK:184:PRO:HA	44:FK:187:SER:OG	2.06	0.55
44:FK:398:MET:CE	45:FL:346:PRO:HD2	2.37	0.55
44:FM:317:MET:HE2	44:FM:319:TYR:CE1	2.42	0.55
44:FM:406:HIS:HA	44:FM:409:VAL:HB	1.89	0.55
44:GA:239:THR:HB	44:GA:242:LEU:HD12	1.89	0.55
45:GB:134:GLN:HE22	45:GB:233:MET:CE	2.19	0.55
44:GC:121:ARG:HD3	44:GC:125:LEU:HD23	1.88	0.55
44:GC:183:GLU:CD	44:GC:184:PRO:HD3	2.27	0.55
45:GD:47:ILE:HD12	45:GD:59:TYR:CE2	2.42	0.55
44:GE:278:ALA:CB	44:GE:369:ALA:HB2	2.22	0.55
44:GG:115:VAL:HG22	44:GG:119:LEU:CD2	2.37	0.55
44:GI:210:TYR:HA	44:GI:213:CYS:HB2	1.88	0.55
45:GJ:42:LEU:HG	45:GJ:45:GLU:OE2	2.06	0.55
45:GL:278:SER:O	45:GL:281:TYR:N	2.40	0.55
45:GL:296:ALA:HB2	45:GL:306:ARG:NH2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:70:LEU:HD12	44:GM:145:THR:HB	1.87	0.55
45:GN:105:HIS:O	45:GN:105:HIS:ND1	2.40	0.55
44:HC:60:LYS:O	44:HC:61:HIS:ND1	2.40	0.55
44:HC:115:VAL:HG23	44:HC:153:LEU:CD2	2.36	0.55
44:HC:251:ASP:O	44:HC:254:GLU:N	2.36	0.55
45:HD:172:SER:HB3	45:HD:175:VAL:HG22	1.89	0.55
45:HD:270:PHE:HE2	45:HD:273:LEU:HD21	1.71	0.55
44:HE:155:GLU:HA	44:HE:197:HIS:NE2	2.22	0.55
45:HF:60:VAL:CG2	45:HF:86:ARG:HG2	2.36	0.55
44:HG:98:ASP:O	44:HG:105:ARG:NH1	2.37	0.55
45:HH:60:VAL:HG21	45:HH:86:ARG:NE	2.22	0.55
45:HH:251:ARG:O	45:HH:254:ALA:HB3	2.07	0.55
45:HJ:214:THR:O	45:HJ:275:SER:HB3	2.06	0.55
44:HK:115:VAL:HG22	44:HK:119:LEU:CD2	2.37	0.55
44:HK:185:TYR:HE2	44:HK:404:PHE:CB	2.19	0.55
44:HM:318:MET:O	44:HM:375:VAL:HA	2.06	0.55
44:IA:181:VAL:N	45:IB:256:ASN:OD1	2.39	0.55
44:IA:271:SER:HB2	44:IA:377:MET:CE	2.33	0.55
44:IE:240:ALA:HB1	44:IE:356:ASN:HD22	1.71	0.55
45:IH:49:VAL:HG11	45:IH:241:ARG:CG	2.34	0.55
45:IH:69:GLU:OE2	45:IH:72:THR:HG23	2.05	0.55
45:IH:169:VAL:HG12	45:IH:202:ILE:HG23	1.87	0.55
45:IH:314:SER:OG	45:IH:350:LYS:HB3	2.07	0.55
44:II:119:LEU:O	44:II:122:ILE:HG22	2.06	0.55
44:II:224:TYR:HB3	46:II:501:GTP:O6	2.07	0.55
45:IJ:236:VAL:HG23	45:IJ:253:LEU:HD22	1.87	0.55
45:IJ:318:ARG:NH1	45:IJ:354:CYS:SG	2.80	0.55
45:IL:69:GLU:OE1	45:IL:71:GLY:N	2.37	0.55
45:IL:286:VAL:HB	45:IL:325:GLU:CD	2.26	0.55
44:IM:210:TYR:HB3	45:IN:324:LYS:NZ	2.22	0.55
44:IM:274:PRO:O	44:IM:275:ILE:HD13	2.06	0.55
45:IN:65:LEU:HD21	45:IN:85:PHE:HE2	1.72	0.55
45:JB:214:THR:O	45:JB:275:SER:HB3	2.05	0.55
44:JC:1:MET:O	44:JC:1:MET:HG2	2.06	0.55
44:JC:194:LEU:HD12	44:JC:195:LEU:N	2.21	0.55
45:JD:127:CYS:SG	45:JD:130:LEU:HG	2.46	0.55
44:JE:250:VAL:HG13	44:JE:352:LYS:HZ3	1.72	0.55
44:JG:56:THR:HG23	44:JG:61:HIS:HA	1.88	0.55
45:JH:7:ILE:HB	45:JH:135:ILE:CD1	2.35	0.55
45:JJ:158:GLU:HG2	45:JJ:159:TYR:CE1	2.42	0.55
44:JK:325:PRO:O	44:JK:328:VAL:HB	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:326:LYS:NZ	45:JN:220:PRO:HB2	2.21	0.55
45:JL:285:THR:CB	45:JL:287:PRO:HD2	2.36	0.55
45:JN:183:TYR:CD2	45:JN:388:MET:HE3	2.42	0.55
44:KA:99:ALA:HB2	44:KA:110:ILE:HD11	1.89	0.55
44:KA:109:THR:OG1	44:KA:411:GLU:OE1	2.15	0.55
45:KB:20:PHE:CD1	45:KB:233:MET:HB3	2.42	0.55
45:KB:332:ASN:O	45:KB:336:LYS:HG2	2.07	0.55
44:KC:188:ILE:HG13	44:KC:189:LEU:N	2.22	0.55
45:KD:423:GLN:O	45:KD:426:GLN:HG2	2.05	0.55
44:KE:10:GLY:O	44:KE:14:ILE:N	2.32	0.55
45:KF:272:PRO:HA	45:KF:292:GLN:OE1	2.06	0.55
45:KH:221:THR:HG23	45:KH:223:GLY:H	1.72	0.55
44:KI:225:THR:HA	44:KI:228:ASN:HD22	1.72	0.55
45:KJ:285:THR:HG22	45:KJ:288:GLU:CB	2.35	0.55
44:KK:311:LYS:HB3	44:KK:344:VAL:HA	1.88	0.55
44:LA:259:LEU:HB3	44:LA:268:MET:HE2	1.87	0.55
44:LA:305:CYS:SG	44:LA:383:ALA:HB1	2.45	0.55
44:LC:275:ILE:CD1	44:LC:368:LEU:HD11	2.28	0.55
44:LE:407:TRP:CE3	45:LF:255:VAL:HA	2.41	0.55
44:LE:428:LEU:HD21	44:LE:432:TYR:CE2	2.41	0.55
44:LG:155:GLU:HG3	44:LG:197:HIS:HE1	1.69	0.55
45:LH:12:CYS:O	45:LH:16:ILE:HG12	2.06	0.55
45:LJ:2:ARG:HH21	45:LJ:240:LEU:HG	1.71	0.55
45:LL:3:GLU:HG3	45:LL:127:CYS:SG	2.47	0.55
45:LL:131:GLN:O	45:LL:163:ILE:HG22	2.06	0.55
45:LL:152:ILE:HD12	45:LL:164:MET:CE	2.37	0.55
45:LN:296:ALA:HB3	45:LN:306:ARG:NH2	2.22	0.55
45:MB:97:ALA:HB3	45:MB:143:THR:HB	1.89	0.55
44:MC:261:PRO:HG2	44:MC:313:MET:SD	2.46	0.55
45:MD:3:GLU:HG3	45:MD:62:ARG:NH2	2.22	0.55
45:MD:313:ALA:HB1	45:MD:367:PHE:CE1	2.41	0.55
44:ME:210:TYR:CD1	44:ME:227:LEU:HD21	2.41	0.55
44:ME:288:VAL:O	44:ME:291:ILE:HG12	2.07	0.55
45:MF:302:ALA:N	45:MF:377:MET:HE1	2.22	0.55
44:MG:183:GLU:N	44:MG:184:PRO:HD2	2.21	0.55
44:MK:11:GLN:HE21	44:MK:15:GLN:NE2	2.05	0.55
44:MK:215:ARG:NH2	44:MK:299:ALA:O	2.38	0.55
45:ML:201:VAL:HG22	45:ML:266:PHE:O	2.06	0.55
44:MM:363:VAL:HG23	44:MM:364:PRO:HD2	1.89	0.55
45:MN:217:LEU:CD1	45:MN:220:PRO:HG3	2.36	0.55
45:MN:288:GLU:HA	45:MN:291:GLN:CG	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:11:GLN:O	45:NB:15:GLN:HG2	2.07	0.55
45:NB:103:LYS:HA	45:NB:107:THR:HG21	1.86	0.55
44:NC:229:ARG:HD2	44:NC:367:ASP:OD2	2.06	0.55
45:ND:11:GLN:O	45:ND:14:ASN:HB2	2.06	0.55
45:ND:272:PRO:C	45:ND:273:LEU:HD22	2.27	0.55
45:ND:343:GLU:OE2	45:ND:429:THR:HA	2.06	0.55
44:NE:12:GLY:O	44:NE:16:VAL:HG22	2.05	0.55
44:NE:141:VAL:HG12	44:NE:171:ILE:O	2.06	0.55
44:NE:183:GLU:N	44:NE:184:PRO:HD2	2.21	0.55
45:NF:33:THR:O	45:NF:58:ARG:NH2	2.40	0.55
44:NG:90:GLU:OE1	44:NG:121:ARG:NH1	2.39	0.55
45:NH:326:VAL:O	45:NH:330:MET:HB2	2.06	0.55
44:NK:221:ARG:HD2	45:NL:324:LYS:NZ	2.22	0.55
45:NL:193:VAL:HG21	45:NL:262:ARG:NH2	2.16	0.55
45:NN:7:ILE:HD12	45:NN:64:ILE:HB	1.89	0.55
45:NN:239:CYS:SG	45:NN:248:SER:OG	2.45	0.55
45:NN:242:PHE:HE2	45:NN:356:ILE:HG21	1.71	0.55
44:OA:2:ARG:HH21	45:OD:70:PRO:HD2	1.71	0.55
44:OA:390:ARG:HG3	44:OA:391:LEU:HD12	1.89	0.55
44:OC:326:LYS:NZ	45:OF:220:PRO:CG	2.69	0.55
45:OD:116:VAL:HA	45:OD:119:VAL:HG12	1.88	0.55
45:OD:130:LEU:HD22	45:OD:162:ARG:CD	2.37	0.55
45:OF:74:ASP:OD1	45:OF:77:ARG:NH2	2.39	0.55
45:OF:299:MET:HE2	45:OF:305:PRO:HG3	1.88	0.55
45:OH:67:ASP:C	45:OH:68:LEU:HD22	2.27	0.55
45:OH:86:ARG:NH2	45:PH:281:TYR:O	2.39	0.55
44:OI:60:LYS:HG2	44:OI:61:HIS:N	2.21	0.55
44:OI:287:SER:OG	44:OI:290:GLU:HG2	2.06	0.55
45:OJ:28:HIS:O	45:OJ:43:GLN:HB3	2.05	0.55
45:OJ:245:GLN:C	45:OJ:246:LEU:HD12	2.27	0.55
45:OL:178:THR:HG22	45:OL:180:VAL:N	2.22	0.55
45:PB:131:GLN:O	45:PB:163:ILE:HG12	2.06	0.55
45:PD:52:ASN:OD1	45:PD:62:ARG:HG2	2.06	0.55
45:PD:65:LEU:HD21	45:PD:85:PHE:CE2	2.42	0.55
45:PD:311:LEU:HB2	45:PD:370:ASN:O	2.06	0.55
44:PE:115:VAL:HG21	44:PE:152:LEU:HG	1.86	0.55
45:PF:7:ILE:HG12	45:PF:64:ILE:HD13	1.88	0.55
45:PF:252:LYS:HE2	45:PF:350:LYS:NZ	2.20	0.55
45:PH:113:ILE:O	45:PH:116:VAL:HG12	2.06	0.55
45:PH:330:MET:HE3	45:PH:349:ILE:CB	2.35	0.55
44:PK:291:ILE:HD13	44:PK:373:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:22:GLU:HA	45:PL:81:PHE:HD2	1.71	0.55
45:PL:311:LEU:O	45:PL:348:ASN:ND2	2.39	0.55
45:QB:36:TYR:CE2	45:QB:44:LEU:HG	2.41	0.55
45:QB:139:LEU:CA	45:QB:145:SER:HB3	2.30	0.55
45:QB:331:LEU:HD12	45:QB:334:GLN:HE21	1.71	0.55
45:QB:345:ILE:HB	44:QC:398:MET:CE	2.36	0.55
44:QC:351:PHE:O	45:QD:179:VAL:HG13	2.07	0.55
45:QD:105:HIS:CE1	45:QD:150:LEU:HD12	2.42	0.55
44:QE:115:VAL:O	44:QE:119:LEU:HD23	2.06	0.55
45:QF:8:GLN:HE21	45:QF:14:ASN:HA	1.69	0.55
45:QH:104:GLY:O	45:QH:109:GLY:HA3	2.06	0.55
44:QK:234:VAL:HG22	44:QK:272:TYR:HB2	1.88	0.55
45:QL:110:ALA:O	45:QL:113:ILE:HG22	2.06	0.55
45:QL:395:LEU:HG	45:QL:399:THR:CG2	2.36	0.55
44:QM:141:VAL:CG2	44:QM:187:SER:HA	2.36	0.55
44:QM:168:GLY:O	44:QM:202:VAL:N	2.39	0.55
45:RB:19:LYS:HB3	45:RB:230:SER:OG	2.07	0.55
45:RB:135:ILE:HB	45:RB:166:THR:HG22	1.87	0.55
45:RB:198:GLU:OE2	45:RB:254:ALA:HB2	2.07	0.55
45:RB:237:THR:HG23	45:RB:241:ARG:HH21	1.71	0.55
44:RC:105:ARG:HG2	44:RC:411:GLU:OE1	2.07	0.55
45:RD:42:LEU:H	45:RD:42:LEU:HD12	1.71	0.55
45:RD:247:ASN:OD1	44:RE:11:GLN:NE2	2.40	0.55
44:RE:394:LYS:O	44:RE:397:LEU:HB2	2.07	0.55
45:RF:102:ALA:HB2	45:RF:398:TYR:CD1	2.42	0.55
45:RF:186:THR:O	45:RF:189:VAL:HG12	2.07	0.55
45:RF:317:PHE:CD2	45:RF:365:VAL:HB	2.41	0.55
45:RJ:84:LEU:O	45:RJ:86:ARG:NH2	2.40	0.55
44:RK:56:THR:HG23	44:RK:58:ALA:H	1.71	0.55
44:RK:265:ILE:HD12	44:RK:435:VAL:HG21	1.88	0.55
45:RL:320:ARG:HG3	45:RL:355:ASP:O	2.06	0.55
45:RN:30:ILE:HG21	45:RN:84:LEU:CD2	2.37	0.55
45:RN:73:MET:O	45:RN:77:ARG:NH1	2.39	0.55
45:RN:112:LEU:HD23	45:RN:116:VAL:HB	1.89	0.55
44:SA:246:GLY:CA	44:SA:356:ASN:HA	2.36	0.55
44:SA:269:LEU:H	44:SA:269:LEU:HD23	1.70	0.55
44:SA:417:GLU:O	44:SA:420:GLU:HG2	2.07	0.55
45:SB:6:HIS:O	45:SB:63:ALA:HA	2.06	0.55
45:SB:325:GLU:HA	45:SB:328:GLU:CG	2.35	0.55
44:SC:340:THR:HG23	44:SC:341:ILE:HG13	1.87	0.55
45:SD:54:ALA:CB	45:TD:283:ALA:HB2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:311:LEU:HA	45:SD:342:VAL:CG1	2.37	0.55
44:SE:320:ARG:N	44:SE:374:ALA:O	2.39	0.55
45:SH:246:LEU:HA	44:SI:11:GLN:HE22	1.72	0.55
45:SH:420:SER:O	45:SH:423:GLN:HG3	2.06	0.55
44:SI:315:CYS:N	44:SI:350:GLY:O	2.35	0.55
44:SI:319:TYR:CD2	44:SI:323:VAL:HG11	2.42	0.55
45:SJ:222:TYR:O	45:SJ:226:ASN:ND2	2.29	0.55
45:SJ:304:ASP:OD1	45:SJ:306:ARG:HG2	2.06	0.55
45:SL:116:VAL:O	45:SL:119:VAL:HG12	2.06	0.55
44:TA:2:ARG:CD	44:TA:242:LEU:HB3	2.37	0.55
44:TA:115:VAL:HG22	44:TA:119:LEU:HD23	1.87	0.55
45:TB:335:ASN:O	45:TB:338:SER:HB3	2.06	0.55
44:TC:180:ALA:O	44:TC:183:GLU:HG3	2.06	0.55
44:TC:317:MET:HE1	44:TC:351:PHE:CA	2.30	0.55
45:TD:113:ILE:HG13	45:TD:151:LEU:HD21	1.88	0.55
44:TE:153:LEU:O	44:TE:157:LEU:HG	2.06	0.55
44:TE:184:PRO:CG	44:TE:398:MET:HE1	2.36	0.55
44:TE:198:THR:HG22	44:TE:199:ASP:N	2.21	0.55
45:TF:4:ILE:HD11	45:TF:50:TYR:OH	2.06	0.55
45:TF:6:HIS:NE2	45:TF:8:GLN:HB3	2.21	0.55
45:TF:100:ASN:O	45:TF:103:LYS:N	2.40	0.55
44:TG:314:ALA:O	44:TG:379:SER:HB2	2.06	0.55
45:TH:77:ARG:HG3	45:TH:82:GLY:O	2.07	0.55
45:TH:103:LYS:HA	45:TH:401:GLU:OE2	2.06	0.55
45:TH:283:ALA:O	45:TH:288:GLU:HG3	2.07	0.55
44:TI:7:ILE:HD12	44:TI:122:ILE:CD1	2.36	0.55
44:TI:54:SER:HB2	44:TI:64:ARG:CZ	2.37	0.55
45:TJ:141:GLY:HA2	48:TJ:501:GDP:O2A	2.07	0.55
44:TK:56:THR:OG1	44:UK:284:GLU:O	2.23	0.55
45:TL:2:ARG:H	45:TL:129:CYS:HG	1.51	0.55
45:TL:178:THR:HG22	45:TL:180:VAL:HG12	1.89	0.55
44:UA:21:TRP:HZ2	44:UA:65:ALA:HB2	1.72	0.55
44:UA:72:PRO:HG3	44:UA:95:GLY:O	2.05	0.55
44:UC:21:TRP:HA	44:UC:24:PHE:HD2	1.70	0.55
44:UC:67:PHE:CD2	44:UC:92:LEU:HG	2.41	0.55
44:UC:324:VAL:HG11	45:UD:220:PRO:O	2.06	0.55
45:UD:183:TYR:CZ	45:UD:388:MET:HB3	2.42	0.55
44:UE:122:ILE:O	44:UE:126:ALA:N	2.39	0.55
44:UG:212:ILE:HD12	44:UG:215:ARG:HH22	1.72	0.55
44:UG:284:GLU:HG3	44:UG:286:LEU:HD22	1.87	0.55
45:UH:60:VAL:HG11	45:UH:86:ARG:HH21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:262:ARG:CZ	45:UH:421:GLU:HB3	2.36	0.55
45:UH:320:ARG:HH11	45:UH:320:ARG:HG2	1.72	0.55
44:UI:13:GLY:CA	44:UI:16:VAL:HG22	2.36	0.55
44:UI:256:GLN:HA	44:UI:260:VAL:HG23	1.89	0.55
44:UI:424:ASP:HA	44:UI:427:ALA:HB3	1.89	0.55
45:UJ:46:ARG:HB3	45:UJ:49:VAL:CG1	2.37	0.55
44:UK:75:ILE:HA	44:UK:78:VAL:CG2	2.37	0.55
44:UK:88:HIS:ND1	44:UK:90:GLU:HG2	2.20	0.55
44:UK:180:ALA:HB3	44:UK:183:GLU:HB3	1.89	0.55
44:UM:1:MET:O	44:UM:131:GLY:HA3	2.07	0.55
44:VA:320:ARG:NE	44:VA:360:PRO:HG3	2.20	0.55
44:VA:326:LYS:HE2	45:VD:212:PHE:CZ	2.41	0.55
45:VB:184:ASN:OD1	45:VB:185:ALA:N	2.40	0.55
45:VB:215:LEU:CD1	45:VB:217:LEU:HD23	2.34	0.55
45:VB:287:PRO:HA	45:VB:290:THR:CG2	2.35	0.55
44:VC:11:GLN:O	44:VC:15:GLN:N	2.30	0.55
44:VC:136:LEU:HD23	44:VC:167:LEU:HB2	1.88	0.55
44:VE:132:LEU:HD22	44:VE:164:LYS:HD3	1.89	0.55
44:VG:183:GLU:N	44:VG:184:PRO:HD2	2.21	0.55
44:VI:9:VAL:HG21	44:VI:149:LEU:HB3	1.87	0.55
44:VI:256:GLN:CB	45:VL:397:TRP:HH2	2.19	0.55
45:VJ:5:VAL:HA	45:VJ:62:ARG:CZ	2.35	0.55
45:VJ:210:ILE:HD12	45:VJ:300:MET:SD	2.47	0.55
44:VK:235:ILE:C	44:VK:239:THR:HG1	2.09	0.55
44:VM:70:LEU:HB3	44:VM:97:GLU:O	2.06	0.55
44:VM:154:LEU:O	44:VM:158:SER:N	2.39	0.55
44:VM:214:ARG:O	44:VM:218:ASP:HA	2.06	0.55
44:VM:324:VAL:O	44:VM:328:VAL:HG23	2.07	0.55
45:VN:268:ILE:HG22	45:VN:368:VAL:CG1	2.33	0.55
45:WB:16:ILE:HD12	45:WB:229:VAL:CG1	2.36	0.55
45:WD:44:LEU:HD23	45:WD:47:ILE:HD12	1.88	0.55
45:WD:65:LEU:HD22	45:WD:90:PHE:CE1	2.41	0.55
44:WE:352:LYS:HD3	45:WH:178:THR:HA	1.89	0.55
44:WE:384:ILE:O	44:WE:387:VAL:HG22	2.06	0.55
44:WG:406:HIS:CD2	45:WH:260:PHE:HA	2.41	0.55
45:WH:325:GLU:CA	45:WH:328:GLU:HG2	2.34	0.55
44:WI:221:ARG:NH2	45:WJ:321:MET:HB2	2.21	0.55
44:WI:268:MET:HB2	44:WI:379:SER:C	2.27	0.55
45:WJ:3:GLU:O	45:WJ:131:GLN:HB3	2.06	0.55
45:WJ:244:GLY:HA2	45:WJ:355:ASP:OD1	2.06	0.55
44:WM:143:GLY:HA3	46:WM:501:GTP:PB	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:242:LYS:HB2	44:FC:357:TYR:HE2	1.71	0.55
2:0A:95:LEU:HD22	45:MB:33:THR:HG23	1.87	0.55
10:0N:6:VAL:HG21	45:IN:128:ASP:OD2	2.07	0.55
22:1L:45:ARG:HH12	45:AJ:55:THR:CG2	2.18	0.55
10:1N:247:GLN:HE21	44:KG:2:ARG:NH1	1.99	0.55
25:1P:366:ALA:HB2	45:TB:360:GLY:CA	2.37	0.55
14:1U:236:LEU:HB3	45:WF:33:THR:CG2	2.33	0.55
27:1W:165:ILE:HA	45:LD:279:GLN:HE22	1.66	0.55
30:2G:35:GLU:OE2	45:KJ:218:THR:N	2.34	0.55
10:2N:249:LEU:HD11	45:KB:73:MET:HB3	1.88	0.55
26:2R:126:PHE:CD1	44:AG:44:GLY:HA2	2.36	0.55
16:4X:3:ARG:NE	44:LI:247:ALA:HA	2.21	0.55
38:5G:88:HIS:N	38:5G:92:GLN:OE1	2.32	0.55
11:5Q:125:LEU:HD12	11:5Q:130:ASN:HD21	1.72	0.55
36:5S:83:ALA:HA	45:WH:108:GLU:OE1	2.06	0.55
41:6G:100:PHE:HA	41:6G:103:ILE:HG22	1.88	0.55
35:6R:389:ASN:H	45:EN:276:ARG:HH12	1.46	0.55
42:8L:370:UNK:O	42:8L:374:UNK:N	2.40	0.55
43:8R:143:UNK:HB1	45:PJ:362:LYS:HE2	1.87	0.55
44:AA:398:MET:CE	45:AB:345:ILE:HG13	2.37	0.55
45:AB:52:ASN:HD21	45:AB:62:ARG:HB3	1.71	0.55
44:AC:238:LEU:O	44:AC:238:LEU:HD23	2.06	0.55
44:AE:268:MET:HG3	44:AE:378:ILE:CG2	2.36	0.55
45:AH:113:ILE:HD13	45:AH:150:LEU:CD2	2.33	0.55
45:AJ:7:ILE:HD11	45:AJ:120:VAL:HG23	1.88	0.55
45:AJ:215:LEU:HD13	45:AJ:217:LEU:HD23	1.88	0.55
45:AJ:420:SER:O	45:AJ:423:GLN:HG3	2.06	0.55
44:AK:68:LEU:HD21	44:AK:118:CYS:HB2	1.88	0.55
44:AM:11:GLN:HE22	45:AN:247:ASN:N	2.02	0.55
45:AN:49:VAL:CG2	45:AN:241:ARG:HD3	2.37	0.55
44:BA:26:LEU:CD2	44:BA:363:VAL:HA	2.36	0.55
44:BA:344:VAL:HG11	44:BA:346:TRP:CE2	2.41	0.55
44:BC:98:ASP:OD1	44:BC:99:ALA:N	2.39	0.55
44:BE:97:GLU:CD	45:BF:131:GLN:HE22	2.10	0.55
44:BK:141:VAL:HG12	44:BK:172:TYR:HA	1.88	0.55
45:BL:12:CYS:O	45:BL:16:ILE:HG12	2.07	0.55
45:BL:77:ARG:HG3	45:BL:77:ARG:HH11	1.71	0.55
45:BL:167:PHE:CE2	45:BL:233:MET:HG2	2.42	0.55
45:BL:257:LEU:HD11	45:BL:314:SER:HB2	1.89	0.55
45:BL:270:PHE:HD2	45:BL:273:LEU:HD21	1.72	0.55
45:BL:407:GLU:O	45:BL:410:GLU:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:269:LEU:HD23	44:BM:269:LEU:H	1.70	0.55
45:CB:5:VAL:O	45:CB:7:ILE:HD12	2.07	0.55
45:CB:62:ARG:O	45:CB:62:ARG:HG3	2.06	0.55
44:CC:417:GLU:O	44:CC:420:GLU:HG2	2.06	0.55
45:CD:69:GLU:OE2	45:CD:72:THR:HG22	2.06	0.55
45:CF:178:THR:N	45:CF:181:GLU:OE2	2.36	0.55
44:CG:188:ILE:HD11	44:CG:425:LEU:HG	1.89	0.55
45:CH:165:GLU:HG2	45:CH:198:GLU:OE1	2.06	0.55
44:CI:363:VAL:HG13	44:CI:366:GLY:HA3	1.89	0.55
45:CJ:3:GLU:HG3	45:CJ:127:CYS:HB2	1.87	0.55
45:CJ:403:MET:HG3	45:CJ:407:GLU:OE2	2.07	0.55
44:CK:237:SER:HB3	44:CK:376:CYS:SG	2.46	0.55
45:CL:221:THR:O	45:CL:224:ASP:N	2.40	0.55
44:CM:99:ALA:HB3	44:CM:145:THR:CG2	2.37	0.55
44:CM:152:LEU:CD1	44:CM:156:ARG:HH12	2.18	0.55
44:CM:229:ARG:O	44:CM:232:ALA:HB3	2.06	0.55
45:CN:112:LEU:O	45:CN:112:LEU:HD23	2.06	0.55
45:CN:127:CYS:SG	45:CN:130:LEU:HD13	2.47	0.55
44:DA:64:ARG:HG3	44:DA:125:LEU:HD22	1.87	0.55
44:DA:227:LEU:O	44:DA:231:ILE:N	2.38	0.55
44:DA:242:LEU:HD11	44:DA:252:ILE:CD1	2.37	0.55
44:DA:324:VAL:O	44:DA:327:ASP:N	2.36	0.55
45:DD:318:ARG:HD3	45:DD:358:PRO:HD3	1.88	0.55
44:DE:9:VAL:O	44:DE:139:ASN:HA	2.06	0.55
44:DE:14:ILE:HD11	44:DE:69:ASP:CB	2.34	0.55
45:DF:104:GLY:O	45:DF:147:MET:HB2	2.07	0.55
45:DF:113:ILE:HD13	45:DF:150:LEU:CD2	2.35	0.55
45:DF:266:PHE:CE1	45:DF:370:ASN:HB2	2.41	0.55
44:DG:87:PHE:HB3	44:DG:92:LEU:HD21	1.89	0.55
44:DG:138:PHE:HE1	44:DG:169:PHE:CD2	2.25	0.55
44:DG:186:ASN:OD1	44:DG:187:SER:N	2.39	0.55
45:DJ:325:GLU:OE1	44:DK:221:ARG:NH1	2.38	0.55
44:DK:161:TYR:HB3	44:DK:164:LYS:HE2	1.89	0.55
44:DK:294:SER:HA	44:DK:297:GLU:HG3	1.89	0.55
44:DK:315:CYS:O	44:DK:351:PHE:HA	2.07	0.55
44:DK:324:VAL:CG1	44:DK:325:PRO:HD2	2.37	0.55
44:DM:24:PHE:HE1	44:DM:236:SER:HA	1.72	0.55
44:DM:75:ILE:O	44:DM:79:ARG:HG3	2.06	0.55
44:DM:387:VAL:HA	44:DM:390:ARG:HG2	1.87	0.55
45:DN:199:CYS:HB3	45:DN:265:PHE:HA	1.88	0.55
45:EB:67:ASP:OD2	45:EB:69:GLU:HG3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:270:PHE:HD2	45:EB:273:LEU:HD11	1.72	0.55
44:EC:265:ILE:HG23	44:EC:432:TYR:HE1	1.71	0.55
44:EE:124:LYS:HA	44:EE:127:ASP:HB2	1.87	0.55
45:EF:289:LEU:HD11	45:EF:363:MET:SD	2.47	0.55
44:EG:340:THR:C	44:EG:341:ILE:HD13	2.27	0.55
45:EH:213:ARG:HE	45:EH:297:LYS:HE2	1.71	0.55
44:EI:37:PRO:CG	44:EI:40:LYS:HB2	2.36	0.55
45:EJ:19:LYS:O	45:EJ:22:GLU:HB2	2.06	0.55
44:EK:356:ASN:OD1	44:EK:357:TYR:N	2.38	0.55
45:EL:238:CYS:SG	45:EL:318:ARG:NE	2.80	0.55
44:EM:70:LEU:CD2	44:EM:110:ILE:HD12	2.36	0.55
44:EM:413:MET:HE1	44:EM:417:GLU:CB	2.36	0.55
45:EN:118:ASP:H	45:EN:119:VAL:CG2	2.17	0.55
45:EN:145:SER:O	45:EN:149:THR:HG22	2.07	0.55
44:FA:54:SER:HB3	44:FA:64:ARG:NH2	2.21	0.55
44:FA:122:ILE:HG22	44:FA:161:TYR:OH	2.06	0.55
44:FA:161:TYR:O	44:FA:164:LYS:NZ	2.38	0.55
44:FC:221:ARG:HH22	45:FD:321:MET:HB3	1.72	0.55
44:FC:274:PRO:CD	44:FC:374:ALA:HA	2.36	0.55
45:FD:137:HIS:HE1	45:FD:139:LEU:HD11	1.72	0.55
45:FD:215:LEU:HD12	45:FD:217:LEU:HD21	1.88	0.55
45:FD:403:MET:HE3	45:FD:407:GLU:HB2	1.87	0.55
44:FE:257:THR:HG22	45:FH:397:TRP:CZ2	2.42	0.55
44:FE:434:GLU:HA	44:FE:437:ILE:HD13	1.88	0.55
44:FG:54:SER:HB3	44:FG:64:ARG:HE	1.72	0.55
45:FH:86:ARG:HE	45:FH:87:PRO:CD	2.20	0.55
45:FH:249:ASP:OD1	45:FH:252:LYS:N	2.34	0.55
44:FI:143:GLY:HA3	46:FI:501:GTP:O2B	2.07	0.55
44:FI:175:PRO:HG3	44:FI:390:ARG:NH2	2.22	0.55
44:FI:311:LYS:HG3	44:FI:342:GLN:HG3	1.88	0.55
45:FJ:228:LEU:HD22	45:FJ:273:LEU:HD11	1.88	0.55
44:FK:5:ILE:HB	44:FK:135:PHE:CE1	2.42	0.55
45:FL:334:GLN:NE2	45:FL:348:ASN:H	2.05	0.55
44:FM:386:GLU:O	44:FM:390:ARG:HG2	2.07	0.55
45:FN:260:PHE:HB3	45:FN:261:PRO:HD2	1.88	0.55
45:FN:293:MET:CE	45:FN:367:PHE:HA	2.36	0.55
45:GB:217:LEU:O	45:GB:217:LEU:HD12	2.07	0.55
45:GB:256:ASN:ND2	45:GB:350:LYS:HD2	2.22	0.55
45:GB:294:PHE:CE2	45:GB:333:VAL:HG11	2.42	0.55
45:GD:234:SER:O	45:GD:238:CYS:HB3	2.06	0.55
44:GE:70:LEU:HD13	44:GE:110:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:105:ARG:NH2	44:GE:110:ILE:HG21	2.21	0.55
44:GE:132:LEU:O	44:GE:132:LEU:HD12	2.07	0.55
44:GE:258:ASN:HD22	44:GE:352:LYS:HD2	1.70	0.55
44:GE:407:TRP:HZ3	45:GF:255:VAL:CA	2.17	0.55
45:GF:370:ASN:OD1	45:GF:422:TYR:OH	2.24	0.55
44:GI:362:VAL:CG1	44:GI:370:LYS:HB3	2.30	0.55
45:GJ:325:GLU:HA	45:GJ:328:GLU:CG	2.37	0.55
44:GM:20:CYS:HA	44:GM:232:ALA:HB1	1.88	0.55
44:GM:401:LYS:O	44:GM:402:ARG:HG2	2.07	0.55
45:HB:54:ALA:HA	45:IB:283:ALA:CB	2.37	0.55
45:HB:54:ALA:CB	45:IB:283:ALA:HB2	2.37	0.55
44:HG:224:TYR:CD1	44:HG:227:LEU:HD12	2.41	0.55
44:HI:132:LEU:HD22	44:HI:164:LYS:HG2	1.89	0.55
44:HI:176:GLN:HG2	44:HI:177:VAL:HG23	1.89	0.55
45:HJ:66:MET:O	45:HJ:66:MET:HG3	2.07	0.55
44:HK:15:GLN:CA	44:HK:18:ASN:HB2	2.29	0.55
44:HK:256:GLN:NE2	45:HN:397:TRP:HH2	2.04	0.55
45:HL:73:MET:HE1	45:HL:92:PHE:HD2	1.69	0.55
45:HL:239:CYS:SG	45:HL:248:SER:HB3	2.47	0.55
44:IA:77:GLU:OE1	44:IA:80:THR:OG1	2.24	0.55
45:IB:70:PRO:HD3	45:IB:93:GLY:O	2.05	0.55
45:IB:131:GLN:HG3	45:IB:250:LEU:HD12	1.89	0.55
45:IB:136:THR:HG22	45:IB:167:PHE:HD1	1.70	0.55
45:IB:222:TYR:HA	45:IB:225:LEU:HD12	1.89	0.55
45:IB:293:MET:HG3	45:IB:294:PHE:HD1	1.70	0.55
44:IC:407:TRP:CZ3	45:ID:255:VAL:HA	2.42	0.55
45:ID:110:ALA:O	45:ID:113:ILE:HG12	2.05	0.55
45:ID:135:ILE:HG13	45:ID:152:ILE:HD11	1.89	0.55
45:ID:299:MET:CE	45:ID:305:PRO:HG3	2.37	0.55
44:IE:34:GLY:HA3	44:IE:60:LYS:HE3	1.89	0.55
46:IE:501:GTP:H8	45:IF:246:LEU:HD21	1.71	0.55
44:IG:182:VAL:O	44:IG:182:VAL:HG22	2.07	0.55
45:IH:137:HIS:O	45:IH:168:SER:HA	2.06	0.55
44:II:260:VAL:HG23	45:IL:397:TRP:CZ2	2.41	0.55
44:IK:240:ALA:CB	44:IK:356:ASN:HD22	2.17	0.55
44:IM:167:LEU:HG	44:IM:200:VAL:CB	2.23	0.55
44:IM:174:SER:HB3	44:IM:207:GLU:CD	2.27	0.55
44:IM:404:PHE:N	45:IN:259:PRO:O	2.30	0.55
45:IN:5:VAL:HG22	45:IN:133:PHE:CE1	2.42	0.55
45:IN:54:ALA:HB1	44:JK:284:GLU:O	2.07	0.55
45:IN:289:LEU:HD13	45:IN:365:VAL:CG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:99:ASN:HA	45:JB:142:GLY:HA3	1.88	0.55
44:JC:250:VAL:HG22	44:JC:352:LYS:HZ3	1.69	0.55
45:JD:173:PRO:HG3	45:JD:380:ARG:HD3	1.88	0.55
45:JF:4:ILE:HD11	45:JF:50:TYR:CZ	2.41	0.55
44:JG:88:HIS:HB3	44:JG:91:GLN:CB	2.36	0.55
45:JJ:50:TYR:OH	45:JJ:237:THR:HG21	2.07	0.55
44:JK:133:GLN:CB	44:JK:252:ILE:HD11	2.35	0.55
44:JK:234:VAL:O	44:JK:237:SER:HB3	2.06	0.55
44:JM:24:PHE:HZ	44:JM:235:ILE:HG22	1.70	0.55
45:KB:169:VAL:HG13	45:KB:202:ILE:HG22	1.89	0.55
45:KB:211:CYS:HA	45:KB:215:LEU:CG	2.36	0.55
45:KB:266:PHE:CE1	45:KB:370:ASN:HB2	2.42	0.55
45:KB:286:VAL:HG11	45:KB:325:GLU:HG3	1.88	0.55
44:KC:210:TYR:HH	44:KC:224:TYR:HE1	1.55	0.55
45:KD:130:LEU:HD21	45:KD:133:PHE:CZ	2.41	0.55
45:KD:135:ILE:CG1	45:KD:166:THR:HG22	2.35	0.55
44:KE:91:GLN:HG2	44:KE:92:LEU:HD12	1.88	0.55
44:KG:20:CYS:HA	44:KG:232:ALA:CB	2.36	0.55
45:KH:135:ILE:HG13	45:KH:152:ILE:HD11	1.89	0.55
45:KH:287:PRO:O	45:KH:290:THR:HG22	2.07	0.55
44:KI:109:THR:HG23	44:KI:110:ILE:N	2.21	0.55
45:KJ:100:ASN:ND2	45:KJ:103:LYS:HG3	2.22	0.55
44:KK:238:LEU:O	44:KK:238:LEU:HD23	2.06	0.55
45:KL:235:GLY:HA3	45:KL:366:THR:CG2	2.32	0.55
45:KN:62:ARG:HG3	45:KN:123:GLU:CG	2.37	0.55
45:LB:1:MET:SD	45:LB:2:ARG:HD3	2.47	0.55
45:LB:279:GLN:HG3	45:LB:280:GLN:N	2.21	0.55
44:LC:153:LEU:O	44:LC:157:LEU:HD23	2.06	0.55
44:LC:241:SER:HA	44:LC:356:ASN:HD21	1.71	0.55
45:LD:285:THR:CB	45:LD:287:PRO:HD2	2.37	0.55
44:LE:14:ILE:HD13	44:LE:75:ILE:CD1	2.37	0.55
45:LH:297:LYS:HD2	45:LH:298:ASN:N	2.22	0.55
44:LI:269:LEU:HD12	44:LI:269:LEU:O	2.07	0.55
44:MC:172:TYR:HB3	44:MC:173:PRO:CD	2.36	0.55
45:MD:161:ASP:OD2	45:MD:162:ARG:NH1	2.39	0.55
44:MG:88:HIS:ND1	44:MG:90:GLU:HG2	2.21	0.55
45:MH:213:ARG:CG	45:MH:297:LYS:HE2	2.36	0.55
44:MI:11:GLN:CG	44:MI:74:VAL:HG11	2.37	0.55
44:MI:294:SER:HA	44:MI:297:GLU:HG3	1.88	0.55
45:MJ:230:SER:HA	45:MJ:233:MET:CE	2.33	0.55
44:MK:30:ILE:CD1	44:MK:36:MET:HG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:29:GLY:HA3	45:ML:43:GLN:HE21	1.72	0.55
45:MN:330:MET:HE2	45:MN:349:ILE:HG21	1.89	0.55
44:NA:13:GLY:CA	44:NA:16:VAL:HG12	2.36	0.55
44:NA:137:VAL:HG23	44:NA:168:GLY:HA2	1.89	0.55
44:NA:274:PRO:HD2	44:NA:374:ALA:HA	1.88	0.55
44:NC:69:ASP:OD1	44:NC:70:LEU:N	2.40	0.55
44:NC:101:ASN:HB3	44:NC:182:VAL:HG21	1.88	0.55
44:NE:121:ARG:HA	44:NE:124:LYS:HE2	1.88	0.55
44:NE:174:SER:CB	44:NE:207:GLU:HB2	2.37	0.55
45:NF:170:VAL:CG2	45:NF:171:PRO:HD2	2.36	0.55
45:NF:317:PHE:CE2	45:NF:326:VAL:HG22	2.41	0.55
44:NG:255:PHE:O	44:NG:259:LEU:HD13	2.06	0.55
45:NH:228:LEU:CD2	45:NH:300:MET:HE1	2.36	0.55
45:NH:272:PRO:HG3	45:NH:289:LEU:HD22	1.89	0.55
45:NJ:86:ARG:HH12	45:OJ:282:ARG:HA	1.71	0.55
45:NJ:317:PHE:CD2	45:NJ:326:VAL:HG22	2.41	0.55
44:NK:139:ASN:OD1	44:NK:170:THR:HG22	2.06	0.55
45:NL:101:TRP:NE1	45:NL:145:SER:O	2.39	0.55
45:NL:271:ALA:HB1	45:NL:272:PRO:HA	1.89	0.55
44:NM:194:LEU:O	44:NM:198:THR:HG22	2.06	0.55
44:OC:238:LEU:HG	44:OC:255:PHE:CE2	2.42	0.55
44:OE:10:GLY:O	44:OE:14:ILE:HD12	2.07	0.55
45:OF:305:PRO:HA	45:OF:373:ALA:HB2	1.88	0.55
45:OL:133:PHE:O	45:OL:164:MET:HA	2.07	0.55
44:OM:208:ALA:HA	44:OM:304:LYS:NZ	2.21	0.55
45:ON:113:ILE:HD11	45:ON:151:LEU:HA	1.88	0.55
45:ON:193:VAL:HA	45:ON:264:HIS:NE2	2.22	0.55
45:PB:101:TRP:HA	45:PB:142:GLY:CA	2.36	0.55
45:PB:256:ASN:O	45:PB:257:LEU:HD12	2.07	0.55
44:PC:258:ASN:HA	45:PF:179:VAL:CG2	2.35	0.55
44:PC:419:SER:O	44:PC:422:ARG:HB3	2.07	0.55
45:PD:317:PHE:O	45:PD:354:CYS:N	2.39	0.55
44:PE:99:ALA:HB1	44:PE:105:ARG:HB2	1.89	0.55
44:PE:424:ASP:O	44:PE:428:LEU:N	2.37	0.55
45:PF:13:GLY:HA3	45:PF:137:HIS:HA	1.89	0.55
45:PF:293:MET:HG3	45:PF:294:PHE:CD1	2.35	0.55
44:PG:258:ASN:HD21	44:PG:352:LYS:CB	2.20	0.55
45:PH:174:LYS:CD	45:PH:175:VAL:HG13	2.36	0.55
44:PI:105:ARG:O	44:PI:110:ILE:HG22	2.07	0.55
45:PJ:310:TYR:HA	45:PJ:371:SER:OG	2.06	0.55
44:PK:182:VAL:C	44:PK:184:PRO:HD2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:69:GLU:OE2	45:PL:72:THR:HG22	2.05	0.55
45:PL:272:PRO:HD3	45:PL:364:ALA:HA	1.88	0.55
45:PN:164:MET:O	45:PN:197:ASP:HB2	2.06	0.55
44:QC:75:ILE:HG21	44:QC:92:LEU:HB3	1.87	0.55
44:QE:68:LEU:HD21	44:QE:118:CYS:SG	2.47	0.55
44:QE:191:THR:HG22	44:QE:195:LEU:HB2	1.88	0.55
45:QF:143:THR:HG23	45:QF:144:GLY:N	2.21	0.55
45:QF:287:PRO:HD3	45:QF:325:GLU:OE2	2.07	0.55
44:QG:51:THR:HG22	44:QG:52:PHE:CE1	2.42	0.55
44:QG:141:VAL:HG23	44:QG:190:SER:OG	2.06	0.55
44:QG:149:LEU:O	44:QG:153:LEU:HD13	2.07	0.55
44:QG:164:LYS:HG3	44:QG:165:SER:N	2.21	0.55
45:QH:190:HIS:CG	45:QH:411:ALA:HA	2.42	0.55
45:QH:304:ASP:O	45:QH:307:HIS:HB2	2.07	0.55
45:QH:311:LEU:O	45:QH:312:THR:OG1	2.18	0.55
45:QH:321:MET:CE	45:QH:326:VAL:HG21	2.37	0.55
44:QI:288:VAL:HG12	44:QI:373:ARG:CD	2.36	0.55
44:QI:338:LYS:HG3	44:QI:340:THR:HG22	1.88	0.55
44:QI:377:MET:O	44:QI:378:ILE:HD13	2.07	0.55
45:QJ:152:ILE:HD12	45:QJ:164:MET:CE	2.36	0.55
45:QJ:222:TYR:O	45:QJ:226:ASN:ND2	2.39	0.55
45:QJ:318:ARG:HB3	45:QJ:357:PRO:HA	1.89	0.55
44:QK:315:CYS:SG	44:QK:317:MET:CE	2.94	0.55
45:QL:23:VAL:HG22	45:QL:227:HIS:CE1	2.40	0.55
45:QL:345:ILE:HG12	45:QL:348:ASN:OD1	2.06	0.55
44:QM:155:GLU:HG2	44:QM:197:HIS:NE2	2.22	0.55
44:QM:294:SER:HB3	44:QM:300:ASN:ND2	2.22	0.55
44:QM:405:VAL:O	44:QM:409:VAL:HG23	2.05	0.55
45:QN:44:LEU:HD22	45:QN:47:ILE:HG21	1.88	0.55
45:QN:172:SER:OG	45:QN:175:VAL:HG23	2.07	0.55
45:QN:174:LYS:HD2	45:QN:205:GLU:OE2	2.07	0.55
45:RB:178:THR:CG2	45:RB:180:VAL:HG12	2.37	0.55
45:RB:289:LEU:O	45:RB:293:MET:HE3	2.06	0.55
44:RC:1:MET:O	44:RC:131:GLY:HA3	2.05	0.55
44:RC:188:ILE:HG23	44:RC:425:LEU:HD11	1.89	0.55
45:RD:204:ASN:O	45:RD:207:LEU:HB2	2.07	0.55
45:RD:404:ASP:OD1	45:RD:407:GLU:HG3	2.05	0.55
45:RF:1:MET:HE2	44:RG:96:LYS:HG2	1.88	0.55
45:RF:73:MET:HE2	45:RF:90:PHE:HD1	1.71	0.55
45:RF:259:PRO:HA	44:RG:404:PHE:CZ	2.42	0.55
44:RG:5:ILE:HD11	44:RG:132:LEU:HG	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:268:MET:HE2	44:RG:380:ASN:HB2	1.88	0.55
44:RG:272:TYR:CD1	44:RG:376:CYS:HB2	2.41	0.55
44:RK:416:GLY:O	44:RK:419:SER:OG	2.14	0.55
45:RL:165:GLU:HG2	45:RL:198:GLU:OE1	2.05	0.55
44:RM:68:LEU:HD11	44:RM:93:ILE:HD13	1.88	0.55
44:SA:319:TYR:HE1	44:SA:353:VAL:HG23	1.72	0.55
45:SB:253:LEU:O	45:SB:257:LEU:HD13	2.05	0.55
45:SD:28:HIS:HB3	45:SD:47:ILE:HD12	1.89	0.55
45:SD:321:MET:CE	45:SD:353:ILE:HG23	2.31	0.55
44:SG:270:SER:CB	44:SG:378:ILE:HD13	2.35	0.55
45:SH:4:ILE:HG22	45:SH:132:GLY:N	2.22	0.55
45:SH:81:PHE:CA	45:SH:84:LEU:HD13	2.36	0.55
45:SH:301:CYS:HB3	45:SH:377:MET:HE3	1.88	0.55
44:SI:332:ILE:HD12	44:SI:351:PHE:CE2	2.42	0.55
45:SJ:73:MET:HE3	45:SJ:92:PHE:HB3	1.88	0.55
45:SJ:344:TRP:O	45:SJ:345:ILE:HD13	2.07	0.55
44:SK:298:PRO:HA	44:SK:301:MET:HE1	1.88	0.55
44:SK:328:VAL:HG21	44:SK:355:ILE:CD1	2.29	0.55
44:SM:201:ALA:HB3	44:SM:267:PHE:CD2	2.42	0.55
44:TA:32:PRO:HB3	44:TA:83:TYR:CE1	2.41	0.55
44:TA:246:GLY:CA	44:TA:356:ASN:HA	2.36	0.55
45:TB:38:GLY:HA3	45:TB:43:GLN:NE2	2.21	0.55
45:TB:189:VAL:HB	45:TB:415:MET:HE1	1.88	0.55
45:TB:237:THR:CG2	45:TB:241:ARG:HE	2.18	0.55
44:TC:213:CYS:O	44:TC:217:LEU:HB2	2.06	0.55
44:TE:177:VAL:HG11	44:TE:207:GLU:HG3	1.87	0.55
45:TF:199:CYS:O	45:TF:265:PHE:HA	2.07	0.55
44:TG:217:LEU:HB3	44:TG:219:ILE:CD1	2.37	0.55
44:TG:269:LEU:HD23	44:TG:379:SER:O	2.07	0.55
45:TH:376:GLU:HG3	45:TH:380:ARG:HH21	1.72	0.55
44:TI:60:LYS:HD2	44:UI:282:TYR:O	2.07	0.55
44:TK:259:LEU:HD11	44:TK:316:SER:CB	2.32	0.55
45:TL:217:LEU:HD11	45:TL:220:PRO:HG3	1.87	0.55
45:TL:247:ASN:O	45:TL:252:LYS:HE3	2.07	0.55
44:TM:171:ILE:HD13	46:TM:501:GTP:HN22	1.72	0.55
45:TN:8:GLN:HB2	45:TN:13:GLY:O	2.07	0.55
45:TN:180:VAL:HG23	45:TN:183:TYR:CD2	2.41	0.55
45:TN:235:GLY:O	45:TN:316:LEU:HD22	2.07	0.55
44:UA:259:LEU:HD21	44:UA:316:SER:CB	2.36	0.55
45:UB:278:SER:OG	45:UB:282:ARG:HG3	2.07	0.55
45:UB:290:THR:OG1	45:UB:333:VAL:HG11	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:49:VAL:HG12	45:UD:50:TYR:HD2	1.71	0.55
45:UD:312:THR:HG22	45:UD:370:ASN:HB3	1.87	0.55
44:UE:56:THR:O	44:VC:285:GLN:HA	2.06	0.55
44:UE:253:THR:HG23	44:UE:254:GLU:CD	2.26	0.55
44:UG:77:GLU:OE1	44:UG:80:THR:OG1	2.25	0.55
44:UG:289:ALA:O	44:UG:292:THR:HG22	2.07	0.55
45:UH:1:MET:HE3	44:UI:72:PRO:HD3	1.88	0.55
44:UI:23:LEU:HD21	44:UI:233:GLN:HA	1.89	0.55
44:UK:141:VAL:CG2	44:UK:187:SER:HA	2.37	0.55
44:UK:184:PRO:O	44:UK:188:ILE:HG12	2.07	0.55
45:UL:396:HIS:O	45:UL:399:THR:OG1	2.18	0.55
45:UN:6:HIS:HE1	45:UN:136:THR:HG23	1.71	0.55
45:UN:317:PHE:N	45:UN:352:SER:O	2.34	0.55
45:VB:242:PHE:HB3	45:VB:356:ILE:HG13	1.88	0.55
44:VC:91:GLN:O	44:VC:93:ILE:HD12	2.06	0.55
44:VC:387:VAL:O	44:VC:391:LEU:HB2	2.07	0.55
44:VE:311:LYS:HD2	44:VE:342:GLN:HG3	1.87	0.55
45:VF:304:ASP:OD1	45:VF:305:PRO:HD2	2.07	0.55
45:VF:325:GLU:HA	45:VF:328:GLU:HG2	1.88	0.55
45:VH:164:MET:N	45:VH:197:ASP:HB2	2.20	0.55
44:VI:326:LYS:HD3	45:VL:212:PHE:HZ	1.72	0.55
45:VJ:248:SER:OG	45:VJ:253:LEU:HD12	2.06	0.55
45:VJ:272:PRO:CD	45:VJ:364:ALA:HA	2.37	0.55
44:VK:30:ILE:HD13	44:VK:53:PHE:CD2	2.40	0.55
45:VL:50:TYR:HE2	45:VL:237:THR:HG21	1.70	0.55
45:VL:371:SER:O	45:VL:374:ILE:HG23	2.07	0.55
44:VM:2:ARG:O	44:VM:51:THR:HA	2.07	0.55
44:VM:221:ARG:NH1	45:VN:322:SER:HG	2.04	0.55
44:VM:270:SER:CB	44:VM:378:ILE:HD13	2.36	0.55
44:VM:296:PHE:CE2	44:VM:335:ILE:HG13	2.32	0.55
45:VN:285:THR:O	45:VN:285:THR:HG23	2.06	0.55
45:VN:323:THR:O	45:VN:326:VAL:N	2.40	0.55
44:WA:185:TYR:O	44:WA:189:LEU:HG	2.06	0.55
45:WD:183:TYR:O	45:WD:186:THR:OG1	2.21	0.55
45:WD:392:LYS:HG3	45:WD:395:LEU:CD2	2.36	0.55
45:WD:418:LEU:O	45:WD:422:TYR:N	2.40	0.55
44:WE:186:ASN:OD1	44:WE:187:SER:N	2.40	0.55
45:WF:302:ALA:HB3	45:WF:377:MET:HE3	1.88	0.55
44:WG:88:HIS:ND1	44:WG:90:GLU:HG2	2.22	0.55
44:WG:261:PRO:HA	45:WJ:394:PHE:CE2	2.42	0.55
45:WH:300:MET:CE	45:WH:300:MET:HA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:115:VAL:HG21	44:WK:156:ARG:NH2	2.22	0.55
45:WN:201:VAL:HG23	45:WN:301:CYS:SG	2.46	0.55
5:0D:107:VAL:HG21	44:DC:35:GLN:HE21	1.70	0.55
2:1A:73:ALA:O	44:AE:219:ILE:HD13	2.06	0.55
2:1A:138:TRP:HZ3	44:AE:81:GLY:HA2	1.70	0.55
5:1D:75:ASP:OD2	45:EF:284:LEU:HD23	2.06	0.55
19:1I:148:GLU:CD	44:KE:225:THR:HB	2.26	0.55
20:1J:273:TRP:HE1	45:IL:276:ARG:CD	2.18	0.55
17:2B:258:LYS:HA	44:KK:278:ALA:HB3	1.89	0.55
16:2X:30:GLU:OE1	45:ML:276:ARG:HG3	2.06	0.55
6:3E:50:ILE:HG23	35:6R:382:TYR:CE1	2.41	0.55
12:3S:142:ASP:OD1	11:5Q:72:LYS:HE3	2.05	0.55
37:5B:161:ILE:HG12	44:KG:386:GLU:OE2	2.06	0.55
38:5G:104:MET:SD	38:5G:105:LYS:N	2.79	0.55
39:5J:86:LYS:NZ	44:NG:308:ARG:O	2.40	0.55
39:5K:19:MET:HA	39:5K:22:TRP:CE3	2.41	0.55
35:5R:227:GLU:OE1	35:5R:227:GLU:N	2.40	0.55
35:5R:379:LYS:HD2	35:5R:379:LYS:C	2.27	0.55
35:5R:566:PHE:HA	35:5R:589:MET:CE	2.37	0.55
41:6G:177:ARG:HD2	41:6G:179:ILE:CG1	2.37	0.55
41:6G:282:PHE:HA	41:6G:285:MET:CE	2.34	0.55
11:6Q:170:ARG:HH11	11:6Q:172:TYR:HE1	1.54	0.55
35:6R:350:PHE:O	35:6R:351:ASN:ND2	2.40	0.55
35:7R:54:ILE:HD11	35:7R:59:MET:HE1	1.88	0.55
35:7R:554:LYS:HE2	35:7R:560:ARG:NH2	2.21	0.55
42:8L:284:UNK:HA	42:8L:287:UNK:CB	2.37	0.55
43:8R:278:UNK:O	43:8R:282:UNK:N	2.39	0.55
45:AB:212:PHE:CZ	45:AB:220:PRO:HG2	2.42	0.55
44:AC:74:VAL:O	44:AC:78:VAL:HG23	2.06	0.55
44:AE:289:ALA:O	44:AE:292:THR:HG22	2.06	0.55
45:AF:45:GLU:HG3	45:AF:46:ARG:HG2	1.88	0.55
44:AI:183:GLU:N	44:AI:184:PRO:HD2	2.22	0.55
44:AM:361:THR:HA	44:AM:370:LYS:NZ	2.22	0.55
44:BA:254:GLU:HG2	45:BD:98:GLY:HA2	1.88	0.55
44:BA:272:TYR:HA	44:BA:376:CYS:HA	1.89	0.55
44:BC:229:ARG:NH1	44:BC:363:VAL:HG11	2.21	0.55
44:BE:88:HIS:O	44:BE:91:GLN:HG2	2.07	0.55
45:BF:271:ALA:HB1	45:BF:272:PRO:HA	1.87	0.55
45:BH:3:GLU:CB	45:BH:49:VAL:HA	2.37	0.55
45:BH:178:THR:HG22	45:BH:180:VAL:HG12	1.88	0.55
45:BH:376:GLU:HG3	45:BH:380:ARG:HH21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:244:PHE:HB2	44:BM:356:ASN:HD21	1.72	0.55
45:BN:4:ILE:HG23	45:BN:132:GLY:O	2.05	0.55
44:CA:170:THR:O	44:CA:204:LEU:HB2	2.07	0.55
45:CB:318:ARG:HD2	45:CB:358:PRO:CD	2.37	0.55
45:CB:342:VAL:HG11	45:CB:348:ASN:HD22	1.72	0.55
45:CD:99:ASN:HA	45:CD:142:GLY:HA3	1.89	0.55
44:CE:223:THR:HG22	44:CE:226:ASN:OD1	2.07	0.55
45:CF:127:CYS:SG	45:CF:130:LEU:HD22	2.47	0.55
45:CF:143:THR:HG23	45:CF:144:GLY:N	2.22	0.55
44:CG:288:VAL:HA	44:CG:291:ILE:CD1	2.37	0.55
45:CJ:256:ASN:CB	44:CK:181:VAL:HG22	2.36	0.55
44:CK:265:ILE:CD1	44:CK:435:VAL:HG11	2.37	0.55
44:CK:311:LYS:H	44:CK:382:THR:HG22	1.71	0.55
45:CL:202:ILE:HG12	45:CL:300:MET:HG3	1.88	0.55
45:CL:326:VAL:O	45:CL:330:MET:HG2	2.07	0.55
44:CM:4:VAL:N	44:CM:51:THR:HG23	2.22	0.55
44:CM:381:SER:O	44:CM:384:ILE:HG22	2.06	0.55
45:CN:51:TYR:HB3	45:CN:59:TYR:CB	2.18	0.55
45:CN:211:CYS:HA	45:CN:215:LEU:CB	2.25	0.55
45:CN:289:LEU:HD13	45:CN:365:VAL:HG23	1.89	0.55
45:DB:260:PHE:HB3	45:DB:261:PRO:HD2	1.89	0.55
44:DC:258:ASN:HD21	45:DD:178:THR:CG2	2.16	0.55
44:DC:274:PRO:HD3	44:DC:374:ALA:HA	1.87	0.55
45:DD:135:ILE:HD12	45:DD:152:ILE:HD11	1.87	0.55
45:DD:371:SER:O	45:DD:374:ILE:HG23	2.06	0.55
44:DE:392:ASP:OD1	44:DE:422:ARG:NE	2.38	0.55
44:DE:417:GLU:CA	44:DE:420:GLU:HG2	2.37	0.55
45:DF:58:ARG:HG3	45:DF:86:ARG:HH22	1.72	0.55
44:DI:97:GLU:HG2	44:DI:105:ARG:HH22	1.70	0.55
44:DI:128:ASN:ND2	44:DI:128:ASN:O	2.40	0.55
44:DI:215:ARG:HH22	44:DI:300:ASN:HA	1.72	0.55
45:DJ:207:LEU:CB	45:DJ:225:LEU:HD22	2.37	0.55
45:DL:170:VAL:CG2	45:DL:378:PHE:HE1	2.19	0.55
44:DM:37:PRO:O	44:DM:38:SER:HB3	2.07	0.55
44:DM:183:GLU:O	44:DM:187:SER:N	2.39	0.55
44:DM:206:ASN:HB2	44:DM:210:TYR:CE1	2.41	0.55
44:DM:208:ALA:HB2	44:DM:304:LYS:HE3	1.89	0.55
45:DN:31:ASP:HB3	45:DN:32:PRO:HD2	1.88	0.55
45:DN:342:VAL:HG21	45:DN:344:TRP:NE1	2.21	0.55
45:DN:387:ALA:O	45:DN:390:ARG:HG2	2.07	0.55
45:EB:44:LEU:CD2	45:EB:47:ILE:HD13	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:193:VAL:HG21	45:EB:418:LEU:HD22	1.89	0.55
45:EB:309:ARG:NH2	45:EB:426:GLN:O	2.38	0.55
45:ED:97:ALA:CB	45:ED:143:THR:HB	2.29	0.55
45:ED:105:HIS:CE1	45:ED:150:LEU:HD12	2.42	0.55
45:ED:193:VAL:HG23	45:ED:264:HIS:NE2	2.20	0.55
45:ED:377:MET:HA	45:ED:380:ARG:HD2	1.86	0.55
45:EF:101:TRP:CH2	45:EF:187:LEU:HB3	2.42	0.55
44:EG:317:MET:HG2	44:EG:377:MET:HB2	1.87	0.55
44:EI:13:GLY:O	44:EI:16:VAL:HG12	2.07	0.55
44:EI:102:ASN:HB3	44:EI:105:ARG:HB2	1.87	0.55
44:EI:257:THR:HA	45:EJ:397:TRP:CH2	2.41	0.55
45:EJ:213:ARG:HH21	45:EJ:297:LYS:HD3	1.72	0.55
45:EJ:255:VAL:HA	44:EK:407:TRP:CZ3	2.42	0.55
45:EJ:269:GLY:HA3	45:EJ:299:MET:CE	2.37	0.55
45:EJ:390:ARG:NH1	45:EJ:391:ARG:HD3	2.17	0.55
44:EM:254:GLU:O	44:EM:255:PHE:HD1	1.89	0.55
44:EM:344:VAL:HG11	44:EM:346:TRP:NE1	2.21	0.55
45:EN:86:ARG:HH21	45:EN:87:PRO:HD2	1.71	0.55
44:FE:259:LEU:HD21	44:FE:316:SER:HB3	1.89	0.55
45:FF:391:ARG:HG3	45:FF:391:ARG:HH11	1.72	0.55
44:FG:260:VAL:HG13	44:FG:260:VAL:O	2.06	0.55
45:FH:31:ASP:OD2	45:FH:35:THR:HG23	2.07	0.55
44:FI:63:PRO:HG2	44:FI:87:PHE:HA	1.89	0.55
45:FJ:323:THR:HA	45:FJ:326:VAL:HG12	1.89	0.55
44:FK:91:GLN:HB3	44:FK:121:ARG:NE	2.22	0.55
44:FK:137:VAL:HG12	44:FK:167:LEU:O	2.07	0.55
44:FK:226:ASN:O	44:FK:230:LEU:HD23	2.06	0.55
45:FL:104:GLY:HA2	45:FL:109:GLY:N	2.12	0.55
44:FM:119:LEU:HA	44:FM:122:ILE:CG1	2.37	0.55
45:FN:149:THR:O	45:FN:152:ILE:N	2.39	0.55
44:GA:358:GLN:OE1	44:GA:359:PRO:HD2	2.07	0.55
44:GC:24:PHE:HZ	44:GC:235:ILE:HG22	1.70	0.55
45:GD:19:LYS:HD3	45:GD:22:GLU:OE2	2.07	0.55
45:GD:68:LEU:HD11	45:GD:95:THR:OG1	2.07	0.55
44:GE:10:GLY:O	44:GE:14:ILE:HG13	2.06	0.55
45:GF:312:THR:HA	45:GF:342:VAL:HG21	1.89	0.55
44:GI:257:THR:HA	45:GL:397:TRP:CZ2	2.40	0.55
45:GJ:67:ASP:HB3	45:GJ:73:MET:CE	2.37	0.55
44:GK:32:PRO:HB3	44:GK:83:TYR:CE1	2.41	0.55
44:GK:275:ILE:HG23	44:GK:368:LEU:HD11	1.89	0.55
44:GK:319:TYR:N	44:GK:354:GLY:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:363:VAL:HG23	44:GK:364:PRO:HD2	1.88	0.55
45:GL:222:TYR:HA	45:GL:225:LEU:HB2	1.88	0.55
44:GM:187:SER:HG	44:GM:188:ILE:H	1.53	0.55
44:GM:394:LYS:HG2	44:GM:397:LEU:HD12	1.88	0.55
45:GN:14:ASN:OD1	45:GN:65:LEU:HD23	2.06	0.55
45:GN:161:ASP:OD1	45:GN:162:ARG:HG2	2.07	0.55
44:HC:104:ALA:HB1	44:HC:411:GLU:HB2	1.89	0.55
45:HD:209:ASP:OD1	45:HD:213:ARG:HG3	2.06	0.55
45:HD:267:MET:N	45:HD:369:GLY:O	2.38	0.55
44:HE:153:LEU:O	44:HE:157:LEU:HD23	2.06	0.55
44:HG:11:GLN:HE22	45:HH:246:LEU:HA	1.71	0.55
44:HG:271:SER:HA	44:HG:302:MET:HB2	1.89	0.55
45:HH:274:THR:HG21	45:HH:279:GLN:HA	1.88	0.55
44:HK:55:GLU:HA	44:HK:55:GLU:OE1	2.04	0.55
44:HK:228:ASN:O	44:HK:231:ILE:N	2.40	0.55
44:HK:259:LEU:HD13	44:HK:268:MET:HG3	1.88	0.55
44:HK:332:ILE:CG2	44:HK:336:LYS:HE2	2.37	0.55
45:HL:6:HIS:HE1	45:HL:136:THR:HG23	1.71	0.55
45:HL:69:GLU:OE2	45:HL:72:THR:HB	2.06	0.55
45:HL:345:ILE:O	45:HL:345:ILE:HG23	2.07	0.55
44:HM:413:MET:CE	44:HM:417:GLU:HG3	2.36	0.55
45:HN:8:GLN:HE21	45:HN:65:LEU:CG	2.20	0.55
45:HN:11:GLN:HG2	45:HN:12:CYS:N	2.21	0.55
44:IA:311:LYS:HD2	44:IA:342:GLN:HG3	1.89	0.55
45:IB:97:ALA:HB1	45:IB:103:LYS:HB3	1.87	0.55
45:IB:143:THR:O	45:IB:147:MET:HB2	2.06	0.55
44:IE:174:SER:HB2	44:IE:177:VAL:O	2.07	0.55
45:IF:178:THR:HG22	45:IF:180:VAL:N	2.21	0.55
45:IF:289:LEU:HD13	45:IF:365:VAL:HG23	1.88	0.55
44:IG:355:ILE:HD13	45:IJ:222:TYR:OH	2.07	0.55
44:IG:384:ILE:O	44:IG:387:VAL:HG22	2.07	0.55
44:II:212:ILE:CD1	44:II:300:ASN:HA	2.36	0.55
44:IK:24:PHE:HZ	44:IK:235:ILE:HG22	1.71	0.55
44:IK:234:VAL:HG13	44:IK:376:CYS:SG	2.46	0.55
44:IK:265:ILE:CG2	44:IK:380:ASN:HD21	2.20	0.55
44:IK:298:PRO:HG3	44:IK:308:ARG:NH1	2.21	0.55
45:IL:141:GLY:HA3	48:IL:501:GDP:O3A	2.06	0.55
45:IL:208:TYR:CE1	45:IL:225:LEU:HD11	2.42	0.55
45:IL:213:ARG:HD3	45:IL:297:LYS:NZ	2.22	0.55
44:IM:80:THR:CA	44:IM:84:ARG:HD2	2.34	0.55
45:JB:375:GLN:HB2	45:JB:379:LYS:NZ	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:308:GLY:O	45:JD:309:ARG:NE	2.34	0.55
44:JI:326:LYS:HG2	45:JL:208:TYR:CE2	2.40	0.55
45:JJ:21:TRP:O	45:JJ:25:SER:N	2.35	0.55
45:JL:46:ARG:HG2	45:JL:49:VAL:CG2	2.35	0.55
45:KB:285:THR:HA	45:KB:363:MET:HE1	1.88	0.55
44:KC:7:ILE:HD11	44:KC:122:ILE:HD12	1.88	0.55
44:KC:20:CYS:HA	44:KC:232:ALA:CB	2.37	0.55
44:KE:265:ILE:HG23	44:KE:432:TYR:CE1	2.37	0.55
44:KE:271:SER:HB2	44:KE:377:MET:SD	2.46	0.55
45:KF:60:VAL:HG22	45:KF:86:ARG:NH2	2.21	0.55
45:KF:256:ASN:O	45:KF:257:LEU:HD23	2.06	0.55
45:KF:330:MET:O	45:KF:333:VAL:HG12	2.06	0.55
45:KH:252:LYS:HE3	45:KH:350:LYS:CE	2.35	0.55
44:KI:183:GLU:HG3	44:KI:184:PRO:HD3	1.89	0.55
44:KI:389:SER:HA	44:KI:392:ASP:CB	2.36	0.55
45:KJ:107:THR:HG21	45:KJ:401:GLU:HG2	1.89	0.55
44:KK:356:ASN:OD1	44:KK:357:TYR:N	2.39	0.55
45:KL:16:ILE:HD13	45:KL:226:ASN:OD1	2.07	0.55
44:KM:189:LEU:HD23	44:KM:421:ALA:HB2	1.89	0.55
45:KN:2:ARG:HG3	45:KN:2:ARG:O	2.05	0.55
44:LC:273:ALA:HB1	44:LC:274:PRO:HA	1.88	0.55
44:LC:291:ILE:HD12	44:LC:375:VAL:HG13	1.88	0.55
44:LC:363:VAL:CG2	44:LC:364:PRO:HD2	2.37	0.55
45:LD:284:LEU:O	45:LD:285:THR:HG23	2.06	0.55
44:LE:11:GLN:HG3	44:LE:74:VAL:HG11	1.89	0.55
44:LG:31:GLN:HE22	44:LG:33:ASP:CG	2.10	0.55
44:LG:295:ALA:HB2	44:LG:375:VAL:HG21	1.89	0.55
44:LI:317:MET:SD	44:LI:332:ILE:HD11	2.47	0.55
45:LJ:274:THR:HG23	45:LJ:279:GLN:HB2	1.89	0.55
44:LM:133:GLN:C	44:LM:252:ILE:HD11	2.27	0.55
45:LN:286:VAL:CA	45:LN:289:LEU:HD12	2.34	0.55
44:MC:313:MET:HE2	44:MC:346:TRP:HZ2	1.71	0.55
45:MD:319:GLY:N	45:MD:354:CYS:O	2.38	0.55
44:ME:71:GLU:OE2	45:MF:2:ARG:NH2	2.40	0.55
44:ME:256:GLN:HE22	45:MH:397:TRP:HH2	1.53	0.55
45:MF:113:ILE:HA	45:MF:116:VAL:HG12	1.89	0.55
45:MH:3:GLU:OE2	45:MH:127:CYS:HB2	2.07	0.55
44:MI:183:GLU:N	44:MI:184:PRO:HD2	2.22	0.55
45:MJ:251:ARG:O	45:MJ:255:VAL:HG23	2.07	0.55
44:MK:326:LYS:HG2	45:MN:220:PRO:HD2	1.87	0.55
45:ML:101:TRP:HB2	45:ML:184:ASN:OD1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:232:ALA:CB	45:ML:268:ILE:HD12	2.37	0.55
44:MM:315:CYS:HA	44:MM:379:SER:CB	2.36	0.55
44:NA:101:ASN:HA	44:NA:144:GLY:N	2.16	0.55
45:NB:164:MET:HE2	45:NB:197:ASP:N	2.22	0.55
45:NB:237:THR:HG22	45:NB:250:LEU:CD2	2.35	0.55
45:NB:268:ILE:HG22	45:NB:368:VAL:HG22	1.88	0.55
44:NC:70:LEU:CB	44:NC:98:ASP:HA	2.37	0.55
44:NC:166:LYS:O	44:NC:167:LEU:HD12	2.06	0.55
44:NC:294:SER:HA	44:NC:297:GLU:CG	2.29	0.55
45:ND:34:GLY:O	45:ND:58:ARG:HA	2.06	0.55
45:ND:342:VAL:HG13	45:ND:345:ILE:HG22	1.87	0.55
44:NE:174:SER:HB3	44:NE:207:GLU:HB2	1.88	0.55
44:NE:371:VAL:HG22	44:NE:372:MET:N	2.22	0.55
44:NG:72:PRO:HG2	45:NH:1:MET:CE	2.34	0.55
45:NH:86:ARG:NE	45:OH:281:TYR:HB3	2.22	0.55
45:NJ:159:TYR:HB3	45:NJ:162:ARG:CG	2.36	0.55
45:NJ:206:ALA:O	45:NJ:209:ASP:N	2.39	0.55
44:NK:192:HIS:ND1	44:NK:424:ASP:OD2	2.40	0.55
45:NL:286:VAL:CG1	45:NL:325:GLU:HG3	2.18	0.55
45:NL:294:PHE:HD2	45:NL:333:VAL:HG11	1.70	0.55
44:NM:101:ASN:OD1	44:NM:143:GLY:HA2	2.07	0.55
45:NN:314:SER:HB3	45:NN:368:VAL:CG1	2.36	0.55
45:NN:330:MET:O	45:NN:333:VAL:HG12	2.05	0.55
44:OA:35:GLN:OE1	44:OA:59:GLY:HA2	2.07	0.55
44:OA:172:TYR:HB3	44:OA:173:PRO:HD2	1.89	0.55
44:OC:126:ALA:O	44:OC:129:CYS:N	2.39	0.55
45:OD:87:PRO:HG2	45:PD:278:SER:CB	2.35	0.55
44:OE:183:GLU:HA	44:OE:186:ASN:CG	2.27	0.55
44:OE:237:SER:CB	44:OE:376:CYS:HB2	2.36	0.55
45:OF:272:PRO:CD	45:OF:364:ALA:HA	2.33	0.55
45:OF:335:ASN:O	45:OF:338:SER:HB3	2.06	0.55
44:OI:33:ASP:O	44:OI:60:LYS:HG3	2.07	0.55
45:ON:103:LYS:HB2	45:ON:401:GLU:OE2	2.07	0.55
45:ON:280:GLN:HG3	45:ON:281:TYR:CE1	2.42	0.55
44:PA:145:THR:OG1	44:PA:149:LEU:HD23	2.07	0.55
45:PB:294:PHE:CD2	45:PB:333:VAL:HG11	2.41	0.55
44:PC:346:TRP:CD1	45:PF:391:ARG:HG3	2.42	0.55
44:PI:22:GLU:HG3	44:PI:83:TYR:CE2	2.42	0.55
44:PM:312:TYR:HA	44:PM:381:SER:HA	1.88	0.55
45:PN:70:PRO:HA	45:PN:73:MET:HG3	1.88	0.55
45:QB:325:GLU:H	44:QC:221:ARG:NH1	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:78:VAL:HG11	44:QC:92:LEU:HD21	1.89	0.55
44:QC:252:ILE:HG12	44:QC:255:PHE:HE2	1.70	0.55
45:QD:11:GLN:HG3	45:QD:72:THR:HB	1.87	0.55
45:QD:178:THR:CG2	45:QD:180:VAL:HG12	2.37	0.55
45:QD:267:MET:HE2	45:QD:299:MET:HB3	1.88	0.55
44:QE:82:THR:HG23	44:QE:83:TYR:CD1	2.41	0.55
44:QE:270:SER:CB	44:QE:378:ILE:HD13	2.36	0.55
44:QG:152:LEU:O	44:QG:156:ARG:HG2	2.05	0.55
44:QI:23:LEU:HB2	44:QI:229:ARG:HH22	1.72	0.55
44:QI:143:GLY:HA3	46:QI:501:GTP:O2B	2.06	0.55
44:QI:264:ARG:HG3	44:QI:264:ARG:HH11	1.72	0.55
45:QJ:8:GLN:HE21	45:QJ:65:LEU:HG	1.71	0.55
44:QK:269:LEU:HD23	44:QK:269:LEU:H	1.72	0.55
45:QL:61:PRO:HG3	45:QL:84:LEU:HD23	1.89	0.55
44:QM:269:LEU:HD23	44:QM:269:LEU:H	1.71	0.55
44:RA:67:PHE:C	44:RA:68:LEU:HD12	2.27	0.55
45:RB:251:ARG:CZ	44:RC:100:ALA:HB3	2.37	0.55
45:RB:316:LEU:N	45:RB:366:THR:O	2.39	0.55
44:RC:108:TYR:O	44:RC:112:LYS:HE3	2.07	0.55
44:RC:393:HIS:O	44:RC:397:LEU:HG	2.07	0.55
45:RD:12:CYS:O	45:RD:16:ILE:HG12	2.07	0.55
45:RD:380:ARG:O	45:RD:384:GLN:HG3	2.06	0.55
44:RE:51:THR:HB	44:RE:243:ARG:HD3	1.89	0.55
44:RE:184:PRO:O	44:RE:188:ILE:HG12	2.07	0.55
45:RF:61:PRO:HG2	45:RF:84:LEU:CB	2.29	0.55
45:RH:2:ARG:NH2	45:RH:240:LEU:O	2.39	0.55
45:RH:289:LEU:HD11	45:RH:363:MET:SD	2.46	0.55
45:RH:331:LEU:O	45:RH:334:GLN:HG3	2.07	0.55
45:RL:28:HIS:ND1	45:RL:43:GLN:HG2	2.22	0.55
45:RL:318:ARG:HH11	45:RL:358:PRO:CG	2.19	0.55
44:RM:219:ILE:CG2	44:RM:222:PRO:HB3	2.36	0.55
44:RM:248:LEU:HD11	48:RN:501:GDP:H5''	1.87	0.55
44:RM:321:GLY:N	44:RM:356:ASN:O	2.32	0.55
44:SA:1:MET:CE	45:SB:70:PRO:HG2	2.37	0.55
44:SA:313:MET:SD	44:SA:382:THR:HG23	2.47	0.55
45:SB:253:LEU:HD21	45:SB:316:LEU:HD11	1.89	0.55
45:SD:32:PRO:HG3	45:SD:81:PHE:CZ	2.41	0.55
44:SE:174:SER:OG	44:SE:207:GLU:HB2	2.07	0.55
45:SF:86:ARG:HH12	45:TF:281:TYR:HB2	1.72	0.55
45:SF:289:LEU:HD11	45:SF:363:MET:SD	2.46	0.55
45:SF:360:GLY:O	45:SF:361:LEU:HD23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:417:ASP:O	45:SF:420:SER:N	2.40	0.55
44:SG:269:LEU:HD23	44:SG:269:LEU:H	1.70	0.55
45:SJ:350:LYS:HA	44:SK:179:THR:O	2.07	0.55
44:SK:191:THR:HA	44:SK:194:LEU:CG	2.35	0.55
45:SL:3:GLU:CD	45:SL:127:CYS:HB2	2.26	0.55
45:SL:20:PHE:O	45:SL:24:ILE:HG13	2.07	0.55
45:SL:72:THR:HA	45:SL:75:SER:OG	2.06	0.55
45:SL:184:ASN:OD1	45:SL:185:ALA:N	2.38	0.55
45:SL:252:LYS:CA	44:SM:100:ALA:HB1	2.36	0.55
44:SM:241:SER:HB2	44:SM:249:ASN:CB	2.37	0.55
45:SN:69:GLU:OE1	45:SN:71:GLY:N	2.40	0.55
44:TC:141:VAL:HG12	44:TC:171:ILE:O	2.06	0.55
45:TD:193:VAL:HA	45:TD:264:HIS:CE1	2.42	0.55
44:TE:48:ALA:HB1	44:TE:243:ARG:O	2.05	0.55
45:TF:159:TYR:HB3	45:TF:162:ARG:CG	2.35	0.55
44:TG:169:PHE:CD1	44:TG:202:VAL:HG21	2.42	0.55
44:TG:246:GLY:HA2	44:TG:357:TYR:CE2	2.41	0.55
45:TH:141:GLY:HA3	48:TH:501:GDP:O3A	2.06	0.55
45:TH:242:PHE:CE1	45:TH:356:ILE:HG21	2.42	0.55
44:TI:56:THR:HG22	44:TI:60:LYS:O	2.07	0.55
45:TJ:207:LEU:CB	45:TJ:225:LEU:HD22	2.23	0.55
44:TK:109:THR:HG21	44:TK:411:GLU:OE1	2.06	0.55
44:TM:9:VAL:HG13	44:TM:139:ASN:OD1	2.07	0.55
45:TN:61:PRO:HD2	45:TN:84:LEU:O	2.07	0.55
44:UA:270:SER:CB	44:UA:378:ILE:HD13	2.37	0.55
45:UB:36:TYR:CZ	45:UB:44:LEU:HG	2.42	0.55
45:UB:286:VAL:HG13	45:UB:287:PRO:HD3	1.89	0.55
44:UC:6:SER:O	44:UC:7:ILE:HD13	2.07	0.55
44:UC:212:ILE:CD1	44:UC:275:ILE:HD11	2.37	0.55
44:UC:325:PRO:HG3	44:UC:355:ILE:CD1	2.36	0.55
45:UD:391:ARG:O	45:UD:392:LYS:HB2	2.06	0.55
44:UE:71:GLU:OE1	44:UE:73:THR:HB	2.06	0.55
44:UE:98:ASP:OD1	44:UE:145:THR:HB	2.07	0.55
44:UE:114:ILE:HG23	44:UE:117:LEU:CD2	2.35	0.55
44:UE:117:LEU:HD12	44:UE:118:CYS:N	2.21	0.55
44:UG:69:ASP:OD1	44:UG:70:LEU:N	2.39	0.55
44:UG:70:LEU:HD13	44:UG:110:ILE:HD12	1.88	0.55
44:UG:417:GLU:O	44:UG:420:GLU:HG2	2.06	0.55
45:UH:253:LEU:O	45:UH:257:LEU:HD13	2.07	0.55
44:UI:413:MET:SD	44:UI:417:GLU:HB2	2.46	0.55
45:UJ:222:TYR:HB3	48:UJ:501:GDP:O6	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:313:ALA:HB3	45:UJ:349:ILE:HG23	1.87	0.55
45:UJ:420:SER:O	45:UJ:423:GLN:HG3	2.07	0.55
45:UL:132:GLY:HA3	45:UL:163:ILE:HG13	1.87	0.55
45:UL:253:LEU:HD21	45:UL:316:LEU:HD21	1.89	0.55
44:UM:53:PHE:HB3	44:UM:61:HIS:HB3	1.89	0.55
44:UM:406:HIS:CA	44:UM:409:VAL:HG22	2.36	0.55
45:UN:215:LEU:CD1	45:UN:228:LEU:HD11	2.26	0.55
45:UN:372:THR:HG22	45:UN:422:TYR:CE1	2.41	0.55
44:VA:87:PHE:CB	44:VA:92:LEU:HD11	2.32	0.55
45:VB:165:GLU:OE2	45:VB:250:LEU:HD13	2.07	0.55
45:VB:285:THR:O	45:VB:287:PRO:HD2	2.06	0.55
45:VB:410:GLU:O	45:VB:413:SER:OG	2.21	0.55
44:VE:55:GLU:OE1	44:VE:61:HIS:NE2	2.40	0.55
44:VE:258:ASN:ND2	45:VH:179:VAL:HG22	2.22	0.55
44:VG:210:TYR:CD1	45:VH:324:LYS:HD2	2.42	0.55
44:VG:406:HIS:O	44:VG:410:GLY:N	2.36	0.55
45:VH:65:LEU:HB2	45:VH:90:PHE:CE1	2.41	0.55
45:VH:142:GLY:O	45:VH:146:GLY:N	2.38	0.55
45:VH:376:GLU:CG	45:VH:380:ARG:HH21	2.20	0.55
44:VI:204:LEU:CD2	44:VI:302:MET:HE2	2.37	0.55
44:VI:280:LYS:CD	44:VI:283:HIS:HB2	2.33	0.55
44:VM:68:LEU:HD21	44:VM:118:CYS:HB2	1.89	0.55
44:VM:115:VAL:CG2	44:VM:156:ARG:HD2	2.36	0.55
44:VM:285:GLN:NE2	44:VM:287:SER:HB2	2.21	0.55
44:VM:320:ARG:HG3	44:VM:360:PRO:HG3	1.88	0.55
44:VM:402:ARG:HA	44:VM:405:VAL:HG21	1.89	0.55
45:VN:2:ARG:HH22	45:VN:240:LEU:CD1	2.19	0.55
45:VN:389:PHE:O	45:VN:392:LYS:HD2	2.07	0.55
44:WA:36:MET:SD	44:WA:38:SER:OG	2.48	0.55
44:WA:148:GLY:O	44:WA:153:LEU:N	2.40	0.55
44:WA:182:VAL:O	44:WA:182:VAL:HG22	2.07	0.55
45:WB:316:LEU:HB2	45:WB:366:THR:O	2.06	0.55
44:WC:135:PHE:CE2	44:WC:157:LEU:HD13	2.41	0.55
45:WD:4:ILE:HG21	45:WD:250:LEU:HD11	1.89	0.55
45:WD:70:PRO:HD3	45:WD:93:GLY:O	2.07	0.55
45:WD:239:CYS:HG	45:WD:248:SER:HG	1.49	0.55
44:WE:215:ARG:NH2	44:WE:300:ASN:HA	2.21	0.55
45:WF:77:ARG:NH1	45:WF:83:GLN:OE1	2.33	0.55
45:WF:181:GLU:HB2	45:WF:182:PRO:HD3	1.89	0.55
45:WF:398:TYR:O	45:WF:403:MET:HB2	2.07	0.55
45:WF:404:ASP:OD1	45:WF:406:MET:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WH:130:LEU:HD23	45:WH:162:ARG:HD2	1.87	0.55
45:WH:267:MET:HE1	45:WH:301:CYS:CB	2.26	0.55
44:WI:169:PHE:HB3	44:WI:204:LEU:HD11	1.88	0.55
45:WJ:210:ILE:HD13	45:WJ:300:MET:CE	2.36	0.55
44:WK:289:ALA:O	44:WK:292:THR:HG22	2.07	0.55
44:WK:428:LEU:HG	44:WK:432:TYR:HE2	1.71	0.55
45:WL:228:LEU:HD22	45:WL:273:LEU:HD13	1.88	0.55
45:WN:404:ASP:OD1	45:WN:407:GLU:HG3	2.06	0.55
9:1H:253:LEU:HD12	44:HE:364:PRO:HB3	1.89	0.55
20:1J:142:VAL:O	44:HE:57:GLY:HA3	2.07	0.55
12:1S:43:TYR:CZ	44:WC:121:ARG:HD2	2.41	0.55
13:1T:132:PRO:CD	44:MC:123:ARG:HH12	2.19	0.55
22:2L:526:ARG:HB2	45:BN:362:LYS:CE	2.37	0.55
22:2L:543:THR:HG21	44:BM:279:GLU:HG3	1.88	0.55
26:2R:464:LEU:HA	45:EH:78:ALA:O	2.06	0.55
6:3E:118:ARG:NH2	35:6R:581:THR:HG21	2.21	0.55
15:3V:101:ILE:CD1	44:LA:416:GLY:HA2	2.37	0.55
16:3X:1:MET:HE1	44:MM:244:PHE:O	2.06	0.55
38:5F:197:LEU:HD12	44:LG:393:HIS:CE1	2.42	0.55
38:5G:206:VAL:HG21	44:LK:426:ALA:CB	2.37	0.55
36:5S:180:VAL:HG12	36:5S:181:PRO:HD3	1.88	0.55
41:6G:265:LEU:HD11	44:VA:339:ARG:HD2	1.88	0.55
35:6R:534:HIS:CG	35:6R:578:TYR:HH	2.21	0.55
35:7R:587:THR:O	35:7R:591:TYR:N	2.40	0.55
42:8L:27:UNK:O	42:8L:31:UNK:N	2.40	0.55
42:8N:282:UNK:HA	44:RC:370:LYS:NZ	2.22	0.55
45:AB:69:GLU:OE1	45:AB:71:GLY:N	2.39	0.55
45:AB:316:LEU:HB2	45:AB:366:THR:O	2.07	0.55
44:AC:402:ARG:CG	44:AC:405:VAL:HG11	2.28	0.55
44:AE:69:ASP:OD2	44:AE:74:VAL:HG21	2.07	0.55
45:AF:398:TYR:HD1	45:AF:408:PHE:HZ	1.55	0.55
44:AG:102:ASN:CG	44:AG:105:ARG:HG3	2.27	0.55
45:AH:311:LEU:HD12	45:AH:342:VAL:HG11	1.88	0.55
46:AI:501:GTP:N7	45:AJ:246:LEU:HD11	2.21	0.55
44:AK:229:ARG:NH1	44:AK:366:GLY:HA2	2.22	0.55
44:AK:239:THR:O	44:AK:239:THR:HG22	2.05	0.55
45:AL:299:MET:HE1	45:AL:367:PHE:HE2	1.70	0.55
45:AN:86:ARG:HA	45:BN:281:TYR:CD2	2.41	0.55
44:BA:71:GLU:OE1	44:BA:73:THR:HB	2.07	0.55
44:BA:433:GLU:O	44:BA:437:ILE:HG23	2.06	0.55
44:BE:384:ILE:HD11	44:BE:432:TYR:OH	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:275:ILE:HD12	44:BG:368:LEU:HD21	1.89	0.55
44:BK:241:SER:O	44:BK:249:ASN:ND2	2.39	0.55
45:BL:172:SER:OG	45:BL:175:VAL:HG22	2.06	0.55
45:BL:184:ASN:OD1	45:BL:185:ALA:N	2.40	0.55
45:BN:146:GLY:O	45:BN:149:THR:HG22	2.06	0.55
45:CB:267:MET:HE1	45:CB:371:SER:H	1.72	0.55
45:CB:315:ALA:O	45:CB:351:SER:HA	2.06	0.55
45:CD:286:VAL:HB	45:CD:325:GLU:OE1	2.06	0.55
45:CF:290:THR:HA	45:CF:293:MET:HG3	1.89	0.55
44:CG:13:GLY:O	44:CG:16:VAL:HG12	2.06	0.55
45:CH:249:ASP:OD2	44:CI:98:ASP:HB3	2.07	0.55
45:CL:316:LEU:HB2	45:CL:366:THR:HG23	1.87	0.55
45:CL:324:LYS:HD3	44:CM:222:PRO:CG	2.36	0.55
44:CM:89:PRO:HG3	44:DM:280:LYS:HB3	1.89	0.55
44:CM:171:ILE:HG23	44:CM:204:LEU:O	2.07	0.55
45:CN:383:GLU:O	45:CN:386:THR:HG22	2.06	0.55
44:DA:4:VAL:HG23	44:DA:134:GLY:O	2.06	0.55
45:DB:163:ILE:HG13	45:DB:163:ILE:O	2.06	0.55
45:DB:217:LEU:HD11	45:DB:220:PRO:CA	2.37	0.55
44:DC:319:TYR:CD2	44:DC:375:VAL:HB	2.42	0.55
45:DH:305:PRO:O	45:DH:308:GLY:N	2.28	0.55
44:DI:311:LYS:HB3	44:DI:382:THR:CG2	2.36	0.55
45:DJ:2:ARG:NH1	45:DJ:240:LEU:HG	2.21	0.55
45:DJ:275:SER:HG	45:DJ:278:SER:CB	2.20	0.55
44:DK:118:CYS:O	44:DK:122:ILE:HG12	2.06	0.55
44:DK:138:PHE:HZ	44:DK:235:ILE:HD11	1.71	0.55
45:DL:259:PRO:HA	44:DM:404:PHE:CD1	2.42	0.55
44:DM:26:LEU:HG	44:DM:361:THR:CG2	2.36	0.55
44:EA:258:ASN:HD21	45:EB:178:THR:HG23	1.71	0.55
45:EB:113:ILE:CA	45:EB:116:VAL:HG12	2.30	0.55
45:EB:260:PHE:HB3	45:EB:261:PRO:HD2	1.89	0.55
44:EC:189:LEU:O	44:EC:192:HIS:HB3	2.07	0.55
45:ED:17:GLY:O	45:ED:21:TRP:N	2.35	0.55
45:ED:377:MET:O	45:ED:381:VAL:HG12	2.07	0.55
44:EE:270:SER:HB2	44:EE:378:ILE:HD13	1.89	0.55
45:EF:418:LEU:O	45:EF:422:TYR:N	2.34	0.55
44:EG:136:LEU:CD2	44:EG:167:LEU:HB2	2.36	0.55
44:EI:141:VAL:CG1	44:EI:172:TYR:HA	2.37	0.55
45:EJ:192:LEU:CD2	45:EJ:196:ALA:HB3	2.37	0.55
45:EL:389:PHE:O	45:EL:392:LYS:HD2	2.06	0.55
45:EN:136:THR:HG22	45:EN:167:PHE:CB	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:200:MET:CE	45:FB:266:PHE:HB2	2.36	0.55
45:FB:263:LEU:HD23	45:FB:311:LEU:HD13	1.87	0.55
44:FC:221:ARG:NH1	45:FD:325:GLU:H	2.05	0.55
44:FC:424:ASP:HA	44:FC:427:ALA:HB3	1.88	0.55
45:FF:268:ILE:HG22	45:FF:368:VAL:HA	1.89	0.55
44:FG:246:GLY:HA2	44:FG:357:TYR:CE2	2.42	0.55
44:FI:270:SER:CB	44:FI:378:ILE:HD13	2.37	0.55
44:FI:291:ILE:HG13	44:FI:292:THR:N	2.21	0.55
45:FJ:8:GLN:NE2	45:FJ:65:LEU:HG	2.21	0.55
45:FJ:8:GLN:OE1	45:FJ:17:GLY:HA3	2.07	0.55
45:FJ:348:ASN:O	45:FJ:349:ILE:HD13	2.06	0.55
45:FL:11:GLN:O	45:FL:15:GLN:HG2	2.06	0.55
45:FL:101:TRP:NE1	45:FL:146:GLY:HA3	2.21	0.55
44:FM:141:VAL:HG23	44:FM:190:SER:OG	2.07	0.55
45:FN:318:ARG:CB	45:FN:358:PRO:HD3	2.36	0.55
45:GB:215:LEU:HA	45:GB:275:SER:HA	1.89	0.55
45:GD:44:LEU:CD2	45:GD:47:ILE:HG21	2.37	0.55
45:GD:97:ALA:HB3	45:GD:143:THR:HG22	1.87	0.55
45:GD:101:TRP:CE3	45:GD:403:MET:HE1	2.42	0.55
45:GD:295:ASP:OD1	45:GD:296:ALA:N	2.40	0.55
44:GE:11:GLN:NE2	45:GF:245:GLN:O	2.30	0.55
44:GE:165:SER:O	44:GE:166:LYS:HG3	2.06	0.55
44:GE:433:GLU:OE2	44:GE:437:ILE:HD11	2.07	0.55
44:GG:97:GLU:CG	44:GG:105:ARG:HH22	2.19	0.55
45:GH:114:ASP:O	45:GH:118:ASP:N	2.37	0.55
45:GH:178:THR:HG21	45:GH:180:VAL:HG12	1.89	0.55
44:GI:229:ARG:NH2	44:GI:364:PRO:O	2.39	0.55
44:GK:141:VAL:CG1	44:GK:173:PRO:HD3	2.37	0.55
44:GK:209:ILE:HG22	44:GK:227:LEU:HD22	1.87	0.55
44:GM:224:TYR:OH	45:GN:323:THR:HG21	2.06	0.55
45:GN:7:ILE:HD13	45:GN:135:ILE:HD11	1.88	0.55
45:GN:208:TYR:HH	45:GN:222:TYR:HE1	1.53	0.55
44:HA:316:SER:O	44:HA:377:MET:HB2	2.06	0.55
44:HC:224:TYR:O	44:HC:228:ASN:N	2.34	0.55
44:HC:262:TYR:HB3	44:HC:263:PRO:HD2	1.88	0.55
44:HE:199:ASP:O	44:HE:266:HIS:HB2	2.07	0.55
45:HF:60:VAL:HG23	45:HF:84:LEU:O	2.06	0.55
45:HF:290:THR:HG21	45:HF:329:GLN:CD	2.27	0.55
45:HL:193:VAL:HA	45:HL:264:HIS:CE1	2.39	0.55
45:IB:7:ILE:HD13	45:IB:64:ILE:HB	1.89	0.55
45:IB:254:ALA:HA	45:IB:257:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IC:249:ASN:OD1	44:IC:250:VAL:N	2.39	0.55
45:ID:49:VAL:HG22	45:ID:50:TYR:CD2	2.41	0.55
45:ID:234:SER:HA	45:ID:237:THR:HG22	1.88	0.55
45:ID:323:THR:O	45:ID:326:VAL:HB	2.07	0.55
44:IE:31:GLN:HB3	44:IE:32:PRO:CD	2.37	0.55
44:IE:254:GLU:CG	45:IH:98:GLY:HA2	2.37	0.55
44:IE:261:PRO:HA	45:IH:394:PHE:HE1	1.69	0.55
44:IG:183:GLU:N	44:IG:184:PRO:HD2	2.21	0.55
44:IG:323:VAL:CG2	44:IG:328:VAL:HG23	2.37	0.55
44:II:186:ASN:OD1	44:II:187:SER:N	2.39	0.55
44:II:428:LEU:HD21	44:II:432:TYR:HE2	1.72	0.55
45:IJ:86:ARG:HH22	44:JG:280:LYS:HA	1.70	0.55
45:IJ:230:SER:HA	45:IJ:233:MET:HE3	1.89	0.55
44:IK:275:ILE:O	44:IK:275:ILE:HG23	2.06	0.55
45:IL:165:GLU:HB3	45:IL:167:PHE:CE1	2.42	0.55
45:IL:404:ASP:OD1	45:IL:407:GLU:HG3	2.07	0.55
44:IM:227:LEU:O	44:IM:231:ILE:HG12	2.06	0.55
45:IN:139:LEU:CD1	45:IN:168:SER:HB3	2.36	0.55
45:JB:134:GLN:O	45:JB:135:ILE:HD13	2.07	0.55
44:JC:248:LEU:HD21	45:JF:222:TYR:HE2	1.72	0.55
44:JC:335:ILE:CA	44:JC:338:LYS:HZ3	2.20	0.55
45:JD:20:PHE:O	45:JD:23:VAL:HG12	2.07	0.55
45:JD:271:ALA:O	45:JD:364:ALA:HB1	2.07	0.55
44:JE:88:HIS:ND1	44:JE:89:PRO:HD2	2.22	0.55
45:JF:7:ILE:HG23	45:JF:64:ILE:CG2	2.37	0.55
45:JF:135:ILE:O	45:JF:166:THR:HA	2.07	0.55
45:JJ:51:TYR:HE2	45:JJ:61:PRO:HG3	1.71	0.55
44:JK:177:VAL:HG22	45:JL:331:LEU:HD12	1.89	0.55
45:JN:183:TYR:CZ	45:JN:388:MET:HE3	2.41	0.55
45:JN:417:ASP:O	45:JN:421:GLU:HG3	2.07	0.55
44:KA:271:SER:HB3	44:KA:377:MET:HB3	1.89	0.55
45:KD:268:ILE:HG13	45:KD:300:MET:HE3	1.89	0.55
45:KD:289:LEU:O	45:KD:293:MET:HB2	2.07	0.55
45:KF:3:GLU:HB2	45:KF:62:ARG:HH12	1.72	0.55
44:KG:263:PRO:HD3	45:KJ:396:HIS:CE1	2.42	0.55
45:KH:377:MET:HE2	45:KH:378:PHE:CE1	2.42	0.55
44:KI:288:VAL:CA	44:KI:291:ILE:HG12	2.32	0.55
44:KM:164:LYS:HD3	44:KM:164:LYS:C	2.27	0.55
45:KN:185:ALA:O	45:KN:189:VAL:N	2.40	0.55
44:LA:384:ILE:O	44:LA:387:VAL:HG22	2.07	0.55
45:LB:193:VAL:HG23	45:LB:264:HIS:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:306:ASP:OD2	44:LE:309:HIS:NE2	2.40	0.55
44:LE:407:TRP:HZ3	45:LF:255:VAL:HA	1.72	0.55
44:LG:73:THR:HG1	45:LH:2:ARG:HH22	1.55	0.55
44:LG:210:TYR:CE1	44:LG:227:LEU:HD11	2.42	0.55
45:LH:36:TYR:CE1	45:LH:44:LEU:HD11	2.42	0.55
44:LI:229:ARG:HB3	44:LI:229:ARG:NH1	2.21	0.55
45:LJ:7:ILE:HG13	45:LJ:7:ILE:O	2.07	0.55
45:LJ:36:TYR:CZ	45:LJ:38:GLY:HA3	2.41	0.55
45:LJ:187:LEU:HD21	45:LJ:408:PHE:CE1	2.41	0.55
45:LL:112:LEU:HB3	45:LL:147:MET:HE3	1.89	0.55
44:LM:24:PHE:O	44:LM:27:GLU:HB3	2.06	0.55
44:LM:369:ALA:O	44:LM:371:VAL:HG23	2.07	0.55
44:MA:175:PRO:HD2	44:MA:207:GLU:OE1	2.07	0.55
44:MA:182:VAL:HG23	44:MA:185:TYR:HD2	1.72	0.55
44:MA:183:GLU:CD	44:MA:184:PRO:HD3	2.27	0.55
44:MA:369:ALA:O	44:MA:371:VAL:HG13	2.07	0.55
45:MB:187:LEU:HD21	45:MB:408:PHE:CE1	2.42	0.55
44:MC:250:VAL:O	44:MC:250:VAL:HG13	2.07	0.55
44:MC:363:VAL:HG23	44:MC:364:PRO:HD2	1.88	0.55
44:ME:268:MET:CG	44:ME:378:ILE:HG22	2.37	0.55
44:ME:280:LYS:O	44:ME:283:HIS:N	2.32	0.55
45:MF:260:PHE:HB3	45:MF:261:PRO:HD2	1.89	0.55
45:MH:174:LYS:HE3	45:MH:205:GLU:OE2	2.06	0.55
45:MJ:415:MET:O	45:MJ:419:VAL:HG23	2.07	0.55
44:MK:164:LYS:HE3	44:MK:164:LYS:CA	2.36	0.55
44:MK:350:GLY:HA2	45:MN:179:VAL:HG12	1.89	0.55
45:MN:67:ASP:HB3	45:MN:73:MET:CE	2.36	0.55
45:MN:113:ILE:HD12	45:MN:113:ILE:H	1.70	0.55
44:NA:63:PRO:HB2	44:NA:87:PHE:CE2	2.42	0.55
44:NA:328:VAL:CG2	44:NA:353:VAL:HG21	2.37	0.55
44:NC:435:VAL:O	45:NF:391:ARG:NH2	2.26	0.55
45:ND:238:CYS:SG	45:ND:316:LEU:HD22	2.47	0.55
45:ND:260:PHE:HB3	45:ND:261:PRO:HD2	1.88	0.55
44:NE:156:ARG:O	44:NE:159:VAL:HG12	2.07	0.55
45:NF:372:THR:HA	45:NF:422:TYR:CE1	2.42	0.55
45:NH:2:ARG:HB2	45:NH:131:GLN:HG3	1.88	0.55
44:NM:10:GLY:O	44:NM:14:ILE:HG12	2.06	0.55
45:NN:3:GLU:OE2	45:NN:127:CYS:HB2	2.07	0.55
44:OA:320:ARG:CB	44:OA:356:ASN:HB3	2.37	0.55
45:OD:77:ARG:HD3	45:OD:90:PHE:CZ	2.41	0.55
44:OE:93:ILE:HD11	44:OE:121:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:242:PHE:HD2	45:OH:356:ILE:HB	1.71	0.55
45:OH:287:PRO:CA	45:OH:329:GLN:HE22	2.20	0.55
44:OI:118:CYS:O	44:OI:122:ILE:HG13	2.06	0.55
45:OJ:8:GLN:HE21	45:OJ:14:ASN:HA	1.70	0.55
44:OK:253:THR:CG2	45:ON:98:GLY:HA3	2.37	0.55
44:OM:136:LEU:CD2	44:OM:167:LEU:HD12	2.37	0.55
44:OM:329:ASN:O	44:OM:332:ILE:HB	2.06	0.55
44:PA:252:ILE:HD13	44:PA:255:PHE:CZ	2.42	0.55
45:PB:3:GLU:OE2	45:PB:128:ASP:N	2.40	0.55
45:PB:185:ALA:HA	45:PB:188:SER:HG	1.71	0.55
45:PB:372:THR:O	45:PB:375:GLN:HG2	2.06	0.55
44:PC:8:HIS:HB2	44:PC:67:PHE:CE2	2.41	0.55
44:PC:70:LEU:HD22	44:PC:97:GLU:O	2.06	0.55
44:PC:221:ARG:HH22	45:PD:325:GLU:HB2	1.72	0.55
44:PC:252:ILE:HA	44:PC:255:PHE:HD2	1.72	0.55
44:PG:278:ALA:HB1	44:PG:282:TYR:HE2	1.70	0.55
44:PG:355:ILE:HD13	45:PJ:222:TYR:HE2	1.71	0.55
44:PI:14:ILE:HD11	44:PI:69:ASP:CB	2.29	0.55
44:PK:129:CYS:SG	44:PK:132:LEU:HD21	2.46	0.55
44:PK:284:GLU:HG3	44:PK:286:LEU:CD1	2.37	0.55
45:PL:6:HIS:HB2	45:PL:134:GLN:HG3	1.88	0.55
45:PL:36:TYR:CG	45:PL:44:LEU:HD11	2.41	0.55
45:PL:242:PHE:CD2	45:PL:356:ILE:HG21	2.42	0.55
45:PL:410:GLU:HA	45:PL:413:SER:OG	2.06	0.55
44:PM:89:PRO:HG3	44:QM:280:LYS:CD	2.37	0.55
44:PM:141:VAL:O	44:PM:147:SER:HB3	2.07	0.55
44:PM:310:GLY:HA3	44:PM:383:ALA:N	2.21	0.55
45:PN:315:ALA:HB1	45:PN:317:PHE:CE1	2.42	0.55
45:QB:38:GLY:HA3	45:QB:43:GLN:NE2	2.22	0.55
45:QB:405:GLU:HG2	45:QB:406:MET:N	2.21	0.55
44:QG:13:GLY:HA2	44:QG:16:VAL:CG2	2.37	0.55
44:QG:35:GLN:OE1	44:QG:60:LYS:HB3	2.07	0.55
45:QH:150:LEU:CD2	45:QH:154:LYS:HG3	2.37	0.55
45:QH:382:ALA:O	45:QH:386:THR:HG23	2.07	0.55
45:QJ:4:ILE:HG22	45:QJ:132:GLY:N	2.21	0.55
45:QJ:241:ARG:HB2	45:QJ:241:ARG:CZ	2.37	0.55
45:QJ:304:ASP:OD1	45:QJ:305:PRO:HD2	2.06	0.55
44:QK:264:ARG:HA	44:QK:264:ARG:HH11	1.72	0.55
45:QL:101:TRP:H	45:QL:398:TYR:HE1	1.55	0.55
45:QL:200:MET:HE1	45:QL:266:PHE:HB2	1.89	0.55
44:QM:67:PHE:HB2	44:QM:92:LEU:HG	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:70:PRO:HG3	45:QN:92:PHE:CD1	2.42	0.55
44:RA:195:LEU:HD12	44:RA:267:PHE:CE1	2.41	0.55
44:RA:439:THR:HG21	45:RB:390:ARG:CD	2.37	0.55
45:RB:99:ASN:HB3	45:RB:180:VAL:HG11	1.88	0.55
44:RC:9:VAL:CG1	44:RC:139:ASN:HB3	2.37	0.55
44:RC:185:TYR:CE2	44:RC:405:VAL:HG22	2.41	0.55
44:RC:291:ILE:O	44:RC:375:VAL:HG11	2.07	0.55
45:RD:3:GLU:HG3	45:RD:62:ARG:NH1	2.22	0.55
45:RD:183:TYR:O	45:RD:186:THR:HG22	2.07	0.55
45:RD:201:VAL:HG22	45:RD:266:PHE:O	2.07	0.55
45:RD:317:PHE:CE2	45:RD:326:VAL:HG13	2.41	0.55
45:RH:121:ARG:HG3	45:RH:159:TYR:OH	2.06	0.55
44:RI:217:LEU:HD13	44:RI:367:ASP:OD2	2.07	0.55
44:RI:291:ILE:HG13	44:RI:292:THR:N	2.21	0.55
45:RJ:60:VAL:HG21	45:RJ:86:ARG:CD	2.36	0.55
45:RJ:414:ASN:HA	45:RJ:417:ASP:CB	2.34	0.55
45:RL:251:ARG:O	45:RL:254:ALA:HB3	2.07	0.55
44:RM:22:GLU:HA	44:RM:25:CYS:SG	2.47	0.55
45:RN:401:GLU:HB2	45:RN:403:MET:HE3	1.89	0.55
45:RN:409:THR:HA	45:RN:412:GLU:OE1	2.07	0.55
44:SA:213:CYS:SG	44:SA:217:LEU:HD12	2.47	0.55
44:SA:316:SER:O	44:SA:378:ILE:N	2.20	0.55
45:SD:423:GLN:O	45:SD:426:GLN:HG2	2.06	0.55
45:SF:210:ILE:HG21	45:SF:228:LEU:HD13	1.87	0.55
45:SH:186:THR:HA	45:SH:189:VAL:CG1	2.35	0.55
45:SH:267:MET:HE1	45:SH:305:PRO:HB3	1.89	0.55
45:SJ:208:TYR:CE1	45:SJ:225:LEU:HD11	2.42	0.55
45:SL:8:GLN:NE2	45:SL:17:GLY:HA3	2.15	0.55
45:SL:21:TRP:HH2	45:SL:63:ALA:HA	1.72	0.55
45:SL:86:ARG:HA	45:TL:281:TYR:HD2	1.71	0.55
45:SL:136:THR:HG22	45:SL:167:PHE:HB2	1.88	0.55
45:SL:416:ASN:O	45:SL:419:VAL:HB	2.06	0.55
44:SM:66:VAL:HB	44:SM:91:GLN:NE2	2.22	0.55
45:SN:131:GLN:O	45:SN:163:ILE:HD12	2.07	0.55
45:SN:257:LEU:HA	45:SN:312:THR:HG21	1.88	0.55
44:TA:20:CYS:HA	44:TA:232:ALA:HB1	1.87	0.55
44:TA:326:LYS:HA	44:TA:329:ASN:HB2	1.89	0.55
44:TC:242:LEU:CD2	44:TC:252:ILE:HG13	2.36	0.55
44:TC:318:MET:HB2	44:TC:376:CYS:HB3	1.88	0.55
45:TD:165:GLU:HG2	45:TD:198:GLU:OE1	2.07	0.55
45:TD:303:ALA:HB2	45:TD:377:MET:CG	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:105:HIS:CE1	45:TF:150:LEU:HD12	2.41	0.55
45:TF:313:ALA:O	45:TF:349:ILE:HA	2.07	0.55
44:TI:288:VAL:HA	44:TI:291:ILE:CG1	2.33	0.55
45:TJ:3:GLU:N	45:TJ:129:CYS:O	2.36	0.55
45:TJ:20:PHE:CZ	45:TJ:233:MET:HG3	2.42	0.55
45:TJ:165:GLU:OE2	45:TJ:250:LEU:HD13	2.07	0.55
44:TK:288:VAL:CA	44:TK:291:ILE:HG12	2.36	0.55
45:TN:9:GLY:O	45:TN:13:GLY:HA3	2.06	0.55
45:UB:206:ALA:CB	45:UB:301:CYS:HA	2.37	0.55
45:UB:207:LEU:HD21	45:UB:300:MET:CE	2.37	0.55
44:UC:205:ASP:OD1	44:UC:303:ALA:HA	2.06	0.55
44:UC:209:ILE:CD1	44:UC:302:MET:HG3	2.36	0.55
44:UC:333:ALA:HA	44:UC:336:LYS:HZ2	1.69	0.55
45:UD:2:ARG:HG3	45:UD:2:ARG:O	2.06	0.55
45:UD:375:GLN:OE1	45:UD:423:GLN:HB2	2.07	0.55
45:UH:342:VAL:HG13	45:UH:345:ILE:HG22	1.88	0.55
45:UJ:248:SER:HB3	45:UJ:252:LYS:HD2	1.88	0.55
45:UL:42:LEU:HD21	45:UL:243:PRO:CD	2.37	0.55
45:UL:260:PHE:CE1	44:UM:403:ALA:HA	2.41	0.55
45:UL:328:GLU:O	45:UL:331:LEU:HB3	2.07	0.55
45:VB:377:MET:O	45:VB:381:VAL:HG23	2.07	0.55
45:VB:420:SER:C	45:VB:424:GLN:HE22	2.10	0.55
44:VC:221:ARG:NH1	45:VD:322:SER:OG	2.40	0.55
44:VC:267:PHE:CE2	44:VC:428:LEU:HD21	2.41	0.55
45:VD:274:THR:CG2	45:VD:279:GLN:HB2	2.36	0.55
44:VE:417:GLU:O	44:VE:420:GLU:HG2	2.06	0.55
45:VF:294:PHE:CZ	45:VF:333:VAL:HG21	2.42	0.55
44:VG:32:PRO:O	44:VG:85:GLN:NE2	2.40	0.55
45:VH:358:PRO:HG2	45:VH:364:ALA:HB2	1.89	0.55
44:VI:387:VAL:O	44:VI:391:LEU:HD13	2.06	0.55
45:VJ:338:SER:C	45:VJ:340:TYR:H	2.10	0.55
44:VK:66:VAL:HG22	44:VK:68:LEU:CD1	2.37	0.55
44:VK:291:ILE:HG13	44:VK:292:THR:N	2.22	0.55
45:VL:68:LEU:HG	45:VL:96:GLY:HA2	1.89	0.55
45:VL:344:TRP:CE3	45:VL:345:ILE:HB	2.40	0.55
45:VN:318:ARG:O	45:VN:321:MET:HE1	2.07	0.55
45:WD:377:MET:O	45:WD:380:ARG:HG2	2.07	0.55
45:WF:139:LEU:HD13	45:WF:168:SER:HB3	1.88	0.55
44:WG:271:SER:O	44:WG:377:MET:HG2	2.05	0.55
44:WI:100:ALA:HB1	45:WJ:251:ARG:CG	2.37	0.55
44:WM:226:ASN:ND2	44:WM:367:ASP:OD2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:317:MET:HE2	44:WM:375:VAL:C	2.27	0.55
45:WN:270:PHE:HE2	45:WN:273:LEU:HD21	1.71	0.55
10:0N:10:TYR:OH	45:IN:52:ASN:OD1	2.14	0.55
15:0V:98:LEU:HD22	44:LM:402:ARG:NH2	2.20	0.55
16:0X:3:ARG:HD2	45:MD:15:GLN:NE2	2.20	0.55
2:1A:39:TYR:CD2	44:ME:77:GLU:HG3	2.41	0.55
21:1K:216:LEU:HD11	44:GA:278:ALA:HB1	1.88	0.55
22:1L:151:ARG:CZ	45:CH:357:PRO:HG2	2.35	0.55
25:1P:277:LYS:HZ2	44:TE:282:TYR:HB2	1.72	0.55
2:2A:152:LYS:HB3	35:5R:82:GLN:HE22	1.72	0.55
29:2F:70:TYR:HD2	45:GF:118:ASP:OD2	1.90	0.55
24:2O:184:GLU:HB2	45:VL:276:ARG:HD2	1.88	0.55
2:3A:150:LEU:CA	35:6R:78:ILE:CD1	2.84	0.55
14:3U:193:LYS:HB2	45:WN:79:GLY:HA2	1.88	0.55
37:5B:108:ARG:HG3	44:KE:393:HIS:CE1	2.35	0.55
37:5D:59:TYR:CZ	45:KN:186:THR:HB	2.41	0.55
38:5F:120:GLU:HG3	38:5F:121:GLU:N	2.21	0.55
38:5G:123:ARG:HB3	44:OI:372:MET:CE	2.34	0.55
11:5Q:95:ASP:CB	11:5Q:146:THR:HG21	2.33	0.55
35:5R:291:LYS:NZ	45:DJ:218:THR:HG21	2.22	0.55
36:5S:183:TYR:O	36:5S:187:LEU:HD13	2.06	0.55
40:6F:134:PHE:CD1	45:IH:356:ILE:HD12	2.32	0.55
41:6G:183:GLY:O	41:6G:184:LYS:HB3	2.06	0.55
11:6Q:99:VAL:HB	11:6Q:101:ARG:NH1	2.21	0.55
35:6R:12:LEU:HB3	35:6R:13:PRO:HD2	1.88	0.55
35:6R:476:HIS:NE2	35:6R:498:LEU:HD22	2.21	0.55
35:7R:146:LYS:HA	35:7R:146:LYS:HE2	1.89	0.55
35:7R:423:ILE:HG23	35:7R:446:PHE:O	2.07	0.55
35:7R:429:LYS:N	35:7R:504:GLN:O	2.39	0.55
44:AA:145:THR:HG23	46:AA:501:GTP:O1B	2.06	0.55
44:AA:183:GLU:CG	44:AA:184:PRO:HD3	2.37	0.55
45:AB:36:TYR:CZ	45:AB:44:LEU:HD11	2.42	0.55
44:AE:222:PRO:O	45:AF:322:SER:HB2	2.06	0.55
44:AG:183:GLU:N	44:AG:184:PRO:HD2	2.22	0.55
44:AG:288:VAL:HG11	44:AG:327:ASP:CB	2.31	0.55
45:AH:392:LYS:HE3	45:AH:395:LEU:HD23	1.88	0.55
45:AL:318:ARG:NH1	45:AL:318:ARG:HG3	2.21	0.55
44:BA:326:LYS:NZ	45:BD:219:THR:HB	2.21	0.55
44:BE:10:GLY:O	44:BE:14:ILE:HG12	2.06	0.55
44:BE:26:LEU:CD2	44:BE:363:VAL:HA	2.37	0.55
44:BE:118:CYS:O	44:BE:122:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:175:PRO:HB2	44:BE:176:GLN:OE1	2.07	0.55
45:BH:167:PHE:HE1	45:BH:200:MET:SD	2.29	0.55
45:BH:358:PRO:N	45:BH:361:LEU:HD13	2.21	0.55
45:BL:174:LYS:HE3	45:BL:205:GLU:HG3	1.87	0.55
45:BL:287:PRO:O	45:BL:290:THR:HG22	2.07	0.55
44:BM:141:VAL:HG23	44:BM:190:SER:OG	2.07	0.55
44:BM:384:ILE:O	44:BM:387:VAL:HG22	2.07	0.55
45:CB:64:ILE:HG21	45:CB:116:VAL:HG23	1.88	0.55
44:CC:104:ALA:HA	44:CC:413:MET:HE3	1.89	0.55
45:CD:113:ILE:HD13	45:CD:150:LEU:HD22	1.88	0.55
45:CF:25:SER:CA	45:CF:30:ILE:HB	2.37	0.55
45:CF:178:THR:HG22	45:CF:180:VAL:H	1.71	0.55
45:CF:180:VAL:O	45:CF:180:VAL:HG22	2.07	0.55
44:CG:305:CYS:O	44:CG:307:PRO:HD3	2.07	0.55
44:CG:405:VAL:O	44:CG:409:VAL:HG23	2.06	0.55
44:CG:433:GLU:O	44:CG:437:ILE:HG23	2.07	0.55
45:CH:309:ARG:NH2	45:CH:426:GLN:O	2.39	0.55
44:CI:68:LEU:HD21	44:CI:118:CYS:CB	2.34	0.55
44:CI:88:HIS:HB3	44:CI:91:GLN:OE1	2.05	0.55
45:CJ:344:TRP:CZ2	44:CK:401:LYS:HE3	2.41	0.55
44:CK:112:LYS:HE3	44:CK:113:GLU:HG2	1.89	0.55
44:CK:207:GLU:C	44:CK:208:ALA:HB3	2.27	0.55
45:CL:268:ILE:HG13	45:CL:300:MET:CB	2.37	0.55
44:CM:273:ALA:HB1	44:CM:274:PRO:HA	1.88	0.55
44:CM:408:TYR:HB3	44:CM:413:MET:HE2	1.89	0.55
45:CN:313:ALA:HB1	45:CN:367:PHE:CE1	2.40	0.55
44:DA:151:SER:HB3	44:DA:193:SER:OG	2.05	0.55
45:DB:110:ALA:O	45:DB:113:ILE:HG22	2.07	0.55
44:DC:69:ASP:OD2	44:DC:74:VAL:HG21	2.07	0.55
45:DD:350:LYS:HD2	44:DE:179:THR:O	2.06	0.55
45:DF:2:ARG:NH2	44:DG:72:PRO:HD2	2.22	0.55
45:DF:418:LEU:O	45:DF:422:TYR:HB2	2.06	0.55
45:DH:5:VAL:HG12	45:DH:62:ARG:HD2	1.87	0.55
45:DJ:103:LYS:HG2	45:DJ:401:GLU:OE2	2.06	0.55
44:DK:137:VAL:HG21	44:DK:154:LEU:HD21	1.87	0.55
44:DK:263:PRO:HD3	45:DL:396:HIS:CG	2.42	0.55
45:DL:221:THR:HG22	45:DL:224:ASP:OD2	2.07	0.55
44:EA:188:ILE:HD12	44:EA:425:LEU:CD1	2.37	0.55
44:EA:324:VAL:CG1	44:EA:326:LYS:HG3	2.37	0.55
45:EB:237:THR:HG23	45:EB:241:ARG:NE	2.16	0.55
45:EB:268:ILE:HG13	45:EB:300:MET:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:71:GLU:OE1	44:EC:73:THR:HB	2.07	0.55
44:EC:311:LYS:HD3	44:EC:342:GLN:O	2.06	0.55
45:ED:182:PRO:O	45:ED:186:THR:OG1	2.15	0.55
45:ED:237:THR:CG2	45:ED:241:ARG:HE	2.19	0.55
44:EE:36:MET:CB	44:EE:37:PRO:CD	2.84	0.55
45:EF:66:MET:CE	45:EF:151:LEU:HD13	2.37	0.55
45:EF:263:LEU:HB3	45:EF:422:TYR:CE1	2.34	0.55
44:EG:113:GLU:O	44:EG:114:ILE:HD13	2.07	0.55
45:EH:102:ALA:HB2	45:EH:398:TYR:HD1	1.72	0.55
45:EH:335:ASN:O	45:EH:338:SER:N	2.40	0.55
45:EH:371:SER:O	45:EH:374:ILE:HG23	2.06	0.55
45:EJ:62:ARG:HH12	45:EJ:127:CYS:HB3	1.72	0.55
45:EJ:285:THR:HB	45:EJ:287:PRO:HD2	1.89	0.55
44:EK:141:VAL:HG11	44:EK:172:TYR:HD1	1.72	0.55
44:EM:259:LEU:HD11	44:EM:316:SER:HB3	1.89	0.55
44:FC:126:ALA:O	44:FC:129:CYS:N	2.40	0.55
45:FD:334:GLN:NE2	45:FD:348:ASN:OD1	2.39	0.55
44:FE:56:THR:OG1	44:GE:285:GLN:HA	2.07	0.55
44:FE:132:LEU:CD2	44:FE:164:LYS:HE2	2.36	0.55
44:FE:181:VAL:HG22	45:FF:256:ASN:CG	2.27	0.55
44:FE:228:ASN:O	44:FE:231:ILE:HG22	2.06	0.55
45:FH:72:THR:O	45:FH:75:SER:OG	2.19	0.55
45:FH:173:PRO:HG3	45:FH:380:ARG:HD3	1.88	0.55
45:FH:237:THR:HG23	45:FH:241:ARG:HH21	1.71	0.55
44:FI:200:VAL:HG13	44:FI:268:MET:CE	2.37	0.55
44:FK:320:ARG:CD	44:FK:360:PRO:HG3	2.37	0.55
45:FL:192:LEU:CD1	45:FL:196:ALA:HB2	2.37	0.55
45:FL:237:THR:HG23	45:FL:240:LEU:CB	2.32	0.55
44:FM:119:LEU:HA	44:FM:122:ILE:HG12	1.88	0.55
44:FM:211:ASP:OD2	44:FM:304:LYS:NZ	2.26	0.55
44:FM:318:MET:N	44:FM:376:CYS:O	2.32	0.55
44:GA:7:ILE:HD12	44:GA:136:LEU:O	2.07	0.55
45:GB:66:MET:CE	45:GB:147:MET:HB3	2.35	0.55
45:GB:217:LEU:HD11	45:GB:220:PRO:CG	2.34	0.55
45:GB:386:THR:HA	45:GB:389:PHE:HB3	1.89	0.55
44:GC:13:GLY:O	44:GC:16:VAL:HG12	2.06	0.55
44:GC:261:PRO:HA	45:GF:394:PHE:HD1	1.72	0.55
45:GD:268:ILE:O	45:GD:300:MET:HE3	2.07	0.55
45:GD:330:MET:CE	45:GD:349:ILE:HG21	2.33	0.55
45:GF:60:VAL:HA	45:GF:86:ARG:CZ	2.37	0.55
45:GF:187:LEU:HD11	45:GF:408:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:318:ARG:HH11	45:GF:358:PRO:CG	2.20	0.55
44:GG:169:PHE:HA	44:GG:202:VAL:HG22	1.89	0.55
45:GH:28:HIS:HB3	45:GH:30:ILE:CD1	2.36	0.55
45:GH:322:SER:CB	45:GH:323:THR:OG1	2.51	0.55
45:GL:240:LEU:HD12	45:GL:250:LEU:HG	1.88	0.55
44:GM:107:HIS:O	44:GM:107:HIS:ND1	2.40	0.55
45:GN:384:GLN:HB3	45:GN:387:ALA:N	2.22	0.55
45:HB:330:MET:SD	45:HB:334:GLN:NE2	2.80	0.55
44:HC:183:GLU:HG2	44:HC:184:PRO:CD	2.35	0.55
44:HC:203:MET:HA	44:HC:203:MET:CE	2.37	0.55
45:HD:67:ASP:OD1	45:HD:68:LEU:N	2.39	0.55
45:HD:295:ASP:OD1	45:HD:296:ALA:N	2.40	0.55
44:HE:89:PRO:HD3	44:IE:283:HIS:ND1	2.21	0.55
44:HE:217:LEU:HB3	44:HE:219:ILE:HG13	1.87	0.55
45:HF:287:PRO:O	45:HF:290:THR:HG22	2.07	0.55
45:HF:359:LYS:HD2	45:HF:359:LYS:O	2.06	0.55
44:HG:271:SER:HB2	44:HG:377:MET:SD	2.47	0.55
44:HG:291:ILE:HG13	44:HG:292:THR:N	2.22	0.55
44:HI:89:PRO:HG3	44:II:280:LYS:CE	2.36	0.55
44:HI:269:LEU:H	44:HI:269:LEU:HD23	1.72	0.55
44:HI:319:TYR:CE1	44:HI:323:VAL:HG21	2.42	0.55
45:HJ:54:ALA:HA	45:IJ:283:ALA:HB2	1.89	0.55
44:HK:74:VAL:HG13	44:HK:75:ILE:HD12	1.88	0.55
44:HK:102:ASN:HB3	44:HK:105:ARG:HB2	1.89	0.55
44:HK:183:GLU:CD	44:HK:184:PRO:HD3	2.27	0.55
44:HK:268:MET:HB2	44:HK:379:SER:O	2.05	0.55
45:HL:163:ILE:CD1	45:HL:250:LEU:HB2	2.37	0.55
45:HL:246:LEU:CD1	45:HL:353:ILE:HD13	2.32	0.55
44:HM:294:SER:O	44:HM:300:ASN:ND2	2.40	0.55
45:HN:388:MET:HE3	45:HN:393:ALA:C	2.27	0.55
44:IA:172:TYR:HE2	44:IA:203:MET:CE	2.20	0.55
44:IG:129:CYS:HB2	44:IG:132:LEU:CD1	2.36	0.55
44:II:141:VAL:HG23	44:II:190:SER:CB	2.37	0.55
44:II:384:ILE:HG21	44:II:432:TYR:CZ	2.42	0.55
45:IJ:199:CYS:O	45:IJ:265:PHE:HA	2.07	0.55
44:IK:19:ALA:HB2	44:IK:228:ASN:HB3	1.89	0.55
44:IK:209:ILE:CG2	44:IK:227:LEU:HD22	2.36	0.55
45:IN:150:LEU:HA	45:IN:153:SER:OG	2.06	0.55
44:JA:115:VAL:HG21	44:JA:152:LEU:HD21	1.87	0.55
44:JA:317:MET:O	44:JA:353:VAL:HA	2.07	0.55
44:JC:269:LEU:HD11	44:JC:301:MET:CE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:24:PHE:HE1	44:JE:236:SER:HG	1.55	0.55
44:JE:118:CYS:O	44:JE:122:ILE:HG12	2.07	0.55
44:JE:178:SER:HG	45:JF:347:ASN:ND2	2.05	0.55
44:JE:437:ILE:HG13	44:JE:437:ILE:O	2.07	0.55
44:JG:68:LEU:HD23	44:JG:149:LEU:HD21	1.87	0.55
44:JI:133:GLN:O	44:JI:252:ILE:HD11	2.07	0.55
45:JJ:139:LEU:HG	45:JJ:168:SER:HB3	1.87	0.55
45:JL:310:TYR:CD1	45:JL:371:SER:HB3	2.42	0.55
45:JL:318:ARG:HG2	45:JL:358:PRO:HD3	1.89	0.55
44:JM:141:VAL:HG12	44:JM:187:SER:HA	1.88	0.55
45:KB:1:MET:O	45:KB:2:ARG:HG2	2.07	0.55
45:KD:99:ASN:HA	45:KD:142:GLY:HA3	1.88	0.55
45:KD:113:ILE:HA	45:KD:116:VAL:HG12	1.87	0.55
45:KF:60:VAL:HG22	45:KF:86:ARG:NE	2.21	0.55
44:KG:327:ASP:O	44:KG:331:SER:N	2.29	0.55
45:KJ:51:TYR:HB3	45:KJ:59:TYR:HB3	1.89	0.55
45:KJ:407:GLU:O	45:KJ:410:GLU:HG2	2.06	0.55
44:KM:108:TYR:HA	44:KM:112:LYS:NZ	2.22	0.55
44:KM:134:GLY:HA2	44:KM:164:LYS:HE2	1.87	0.55
44:KM:272:TYR:CD1	44:KM:376:CYS:HB3	2.33	0.55
45:KN:234:SER:O	45:KN:238:CYS:HB3	2.07	0.55
45:KN:259:PRO:HG3	45:KN:311:LEU:CD1	2.37	0.55
44:LA:36:MET:HE3	44:LA:55:GLU:OE2	2.06	0.55
45:LB:34:GLY:O	45:LB:58:ARG:HA	2.06	0.55
45:LB:341:PHE:HB3	45:LB:348:ASN:HD21	1.71	0.55
44:LC:221:ARG:NH2	45:LD:322:SER:H	2.05	0.55
45:LD:7:ILE:HG22	45:LD:64:ILE:HB	1.88	0.55
44:LG:1:MET:HG2	44:LG:1:MET:O	2.06	0.55
44:LG:66:VAL:HG13	44:LG:66:VAL:O	2.07	0.55
45:LH:222:TYR:CD1	45:LH:225:LEU:HD12	2.42	0.55
44:LI:13:GLY:HA2	44:LI:16:VAL:HG22	1.88	0.55
45:LJ:199:CYS:HB2	45:LJ:265:PHE:CD1	2.42	0.55
45:LJ:246:LEU:HD13	45:LJ:353:ILE:HD13	1.87	0.55
44:LM:80:THR:HA	44:LM:84:ARG:CD	2.37	0.55
45:LN:100:ASN:HD21	45:LN:103:LYS:CD	2.18	0.55
45:MB:309:ARG:CZ	45:MB:342:VAL:HA	2.36	0.55
44:MC:259:LEU:HD21	44:MC:316:SER:HB2	1.88	0.55
45:MD:154:LYS:HB2	45:MD:154:LYS:HZ3	1.72	0.55
45:MD:167:PHE:HE1	45:MD:200:MET:SD	2.29	0.55
45:MD:252:LYS:HG2	45:MD:350:LYS:CE	2.35	0.55
45:MD:367:PHE:CZ	45:MD:369:GLY:HA3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:67:ASP:CB	45:MF:73:MET:HE2	2.35	0.55
44:MK:397:LEU:HD11	45:ML:344:TRP:CB	2.37	0.55
45:ML:257:LEU:HD11	45:ML:314:SER:HB3	1.89	0.55
44:MM:174:SER:HB3	44:MM:207:GLU:OE1	2.07	0.55
44:MM:386:GLU:HA	44:MM:389:SER:OG	2.07	0.55
44:NA:84:ARG:HG3	44:NA:85:GLN:HG2	1.89	0.55
44:NA:105:ARG:HA	44:NA:109:THR:CG2	2.36	0.55
44:NA:252:ILE:HA	44:NA:255:PHE:HD2	1.72	0.55
45:ND:16:ILE:HD12	45:ND:16:ILE:H	1.72	0.55
45:ND:271:ALA:HA	45:ND:273:LEU:CD2	2.37	0.55
44:NE:202:VAL:HA	44:NE:268:MET:O	2.06	0.55
45:NF:193:VAL:HA	45:NF:264:HIS:NE2	2.22	0.55
45:NH:416:ASN:O	45:NH:419:VAL:HB	2.06	0.55
44:NI:326:LYS:HD3	45:NL:220:PRO:HD2	1.88	0.55
45:NJ:101:TRP:CE3	45:NJ:187:LEU:HD13	2.42	0.55
44:NM:264:ARG:CZ	44:NM:428:LEU:HD22	2.36	0.55
44:NM:285:GLN:O	44:NM:286:LEU:HB2	2.06	0.55
45:NN:3:GLU:OE1	45:NN:3:GLU:N	2.36	0.55
44:OA:276:ILE:HG13	44:OA:280:LYS:HG3	1.88	0.55
44:OA:329:ASN:HD21	45:OD:175:VAL:HG12	1.72	0.55
45:OB:216:LYS:HE2	45:OB:275:SER:OG	2.07	0.55
44:OC:183:GLU:CD	44:OC:184:PRO:HD3	2.27	0.55
44:OC:189:LEU:HD21	44:OC:418:PHE:CE2	2.42	0.55
45:OF:284:LEU:HD21	45:OF:362:LYS:HB2	1.88	0.55
44:OG:261:PRO:HA	45:OJ:394:PHE:CE2	2.42	0.55
44:OG:390:ARG:HG3	44:OG:391:LEU:N	2.21	0.55
45:OH:7:ILE:O	45:OH:135:ILE:HD12	2.07	0.55
45:OH:113:ILE:HD12	45:OH:151:LEU:HD22	1.88	0.55
44:OI:215:ARG:HG2	44:OI:216:ASN:OD1	2.07	0.55
44:OK:108:TYR:HE2	44:OK:413:MET:CA	2.20	0.55
45:OL:28:HIS:HA	45:OL:43:GLN:CD	2.27	0.55
44:OM:320:ARG:CG	44:OM:374:ALA:HB3	2.35	0.55
45:ON:319:GLY:HA2	45:ON:357:PRO:CG	2.32	0.55
44:PA:34:GLY:HA3	44:PA:60:LYS:NZ	2.21	0.55
44:PA:72:PRO:HG2	45:PB:1:MET:HE3	1.88	0.55
44:PA:417:GLU:O	44:PA:420:GLU:HG2	2.07	0.55
44:PA:435:VAL:HA	45:PD:391:ARG:HH21	1.71	0.55
45:PB:380:ARG:O	45:PB:384:GLN:HG3	2.06	0.55
44:PC:269:LEU:HD23	44:PC:379:SER:O	2.07	0.55
44:PC:422:ARG:HH12	44:PC:426:ALA:HB2	1.72	0.55
44:PC:435:VAL:CA	45:PF:391:ARG:HH22	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:188:ILE:HG13	44:PE:395:PHE:CB	2.37	0.55
44:PE:320:ARG:HG3	44:PE:360:PRO:HD3	1.88	0.55
45:PF:2:ARG:NH2	45:PF:240:LEU:HG	2.21	0.55
45:PF:248:SER:CA	45:PF:252:LYS:HD3	2.36	0.55
45:PF:334:GLN:HG3	45:PF:349:ILE:HD11	1.87	0.55
44:PI:88:HIS:H	44:PI:91:GLN:NE2	2.05	0.55
44:PK:144:GLY:N	46:PK:501:GTP:O2G	2.40	0.55
44:PK:189:LEU:HD21	44:PK:418:PHE:HA	1.88	0.55
44:PK:317:MET:HA	44:PK:377:MET:HA	1.88	0.55
44:PK:407:TRP:CZ3	45:PL:255:VAL:HG22	2.41	0.55
45:PL:32:PRO:HG3	45:PL:81:PHE:HE1	1.71	0.55
44:PM:268:MET:HE2	44:PM:378:ILE:CG2	2.37	0.55
44:PM:398:MET:CE	45:PN:345:ILE:HG13	2.35	0.55
45:QB:65:LEU:HB2	45:QB:90:PHE:CE1	2.40	0.55
45:QB:345:ILE:HG23	45:QB:345:ILE:O	2.07	0.55
44:QC:4:VAL:HG23	44:QC:134:GLY:O	2.07	0.55
44:QC:209:ILE:HD11	44:QC:227:LEU:HD13	1.89	0.55
45:QD:103:LYS:O	45:QD:108:GLU:HB2	2.06	0.55
45:QD:138:SER:OG	45:QD:144:GLY:HA3	2.07	0.55
45:QD:170:VAL:HG13	45:QD:203:ASP:OD1	2.07	0.55
45:QD:225:LEU:O	45:QD:229:VAL:HG23	2.07	0.55
44:QE:387:VAL:O	44:QE:390:ARG:HG2	2.07	0.55
45:QH:8:GLN:O	45:QH:66:MET:HB3	2.07	0.55
45:QH:65:LEU:HB2	45:QH:90:PHE:CE1	2.42	0.55
45:QH:130:LEU:HB3	45:QH:162:ARG:HD2	1.88	0.55
45:QH:135:ILE:O	45:QH:166:THR:HA	2.06	0.55
44:QI:291:ILE:HD13	44:QI:373:ARG:NH1	2.21	0.55
45:QL:141:GLY:HA3	48:QL:501:GDP:O3A	2.04	0.55
45:QL:141:GLY:HA3	48:QL:501:GDP:PB	2.46	0.55
45:QL:267:MET:HE1	45:QL:371:SER:HB3	1.88	0.55
45:QL:270:PHE:CE2	45:QL:273:LEU:HD21	2.40	0.55
44:QM:102:ASN:CG	44:QM:105:ARG:HG3	2.27	0.55
44:QM:259:LEU:HD23	44:QM:314:ALA:HB3	1.89	0.55
45:QN:287:PRO:HA	45:QN:290:THR:HG22	1.89	0.55
45:RB:206:ALA:HB3	45:RB:300:MET:C	2.28	0.55
44:RC:30:ILE:O	44:RC:30:ILE:HG13	2.06	0.55
44:RC:209:ILE:HA	44:RC:212:ILE:CD1	2.34	0.55
44:RC:238:LEU:HD21	44:RC:255:PHE:CE2	2.42	0.55
45:RD:73:MET:HB2	45:RD:90:PHE:CE1	2.42	0.55
45:RD:190:HIS:CD2	45:RD:411:ALA:HA	2.42	0.55
45:RF:266:PHE:CE1	45:RF:370:ASN:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:331:LEU:HD22	44:RG:177:VAL:HG22	1.87	0.55
44:RG:139:ASN:O	44:RG:170:THR:HA	2.06	0.55
44:RG:209:ILE:HG22	44:RG:227:LEU:HD22	1.89	0.55
45:RH:62:ARG:HG3	45:RH:123:GLU:CD	2.27	0.55
45:RH:256:ASN:C	45:RH:257:LEU:HD12	2.28	0.55
44:RI:15:GLN:HG3	44:RI:228:ASN:OD1	2.06	0.55
44:RI:123:ARG:HH21	44:RI:160:ASP:HB3	1.72	0.55
45:RJ:286:VAL:HA	45:RJ:289:LEU:CD1	2.36	0.55
45:RJ:377:MET:HE2	45:RJ:378:PHE:CE2	2.42	0.55
44:RK:88:HIS:HE1	44:RK:90:GLU:HG2	1.67	0.55
44:RK:145:THR:N	46:RK:501:GTP:O2G	2.32	0.55
45:RN:267:MET:CE	45:RN:374:ILE:HG22	2.37	0.55
45:RN:378:PHE:HB3	45:RN:419:VAL:HG22	1.89	0.55
44:SA:208:ALA:HB2	44:SA:304:LYS:HB2	1.88	0.55
44:SA:387:VAL:CA	44:SA:390:ARG:HG2	2.34	0.55
45:SB:324:LYS:HE3	44:SC:214:ARG:HD2	1.88	0.55
44:SC:254:GLU:HB3	44:SC:258:ASN:ND2	2.21	0.55
45:SF:146:GLY:O	45:SF:149:THR:HG22	2.07	0.55
44:SI:35:GLN:HG2	44:SI:60:LYS:HB3	1.89	0.55
45:SJ:86:ARG:HH12	45:TJ:281:TYR:CB	2.19	0.55
45:SL:86:ARG:HA	45:TL:281:TYR:CD2	2.42	0.55
44:SM:124:LYS:HA	44:SM:127:ASP:CB	2.32	0.55
44:TA:54:SER:HB3	44:TA:64:ARG:CZ	2.37	0.55
44:TA:188:ILE:HD12	44:TA:425:LEU:CD1	2.33	0.55
44:TA:247:ALA:HB3	44:TA:355:ILE:HG21	1.89	0.55
45:TB:186:THR:O	45:TB:415:MET:HE1	2.06	0.55
45:TB:395:LEU:HG	45:TB:399:THR:CG2	2.37	0.55
45:TD:199:CYS:HB3	45:TD:264:HIS:O	2.07	0.55
45:TD:231:ALA:HA	45:TD:234:SER:CB	2.37	0.55
45:TF:242:PHE:CE2	45:TF:356:ILE:HD13	2.42	0.55
45:TF:303:ALA:HB1	45:TF:373:ALA:O	2.07	0.55
45:TH:93:GLY:N	45:TH:112:LEU:HD11	2.22	0.55
45:TH:215:LEU:O	45:TH:275:SER:HB2	2.07	0.55
44:TI:70:LEU:HD12	44:TI:145:THR:OG1	2.07	0.55
44:TI:123:ARG:O	44:TI:126:ALA:N	2.40	0.55
44:TK:287:SER:HB3	44:TK:290:GLU:CG	2.35	0.55
45:TL:334:GLN:O	45:TL:338:SER:HB3	2.07	0.55
44:UC:260:VAL:O	44:UC:260:VAL:HG23	2.07	0.55
45:UD:322:SER:CB	44:UE:223:THR:HB	2.37	0.55
44:UE:70:LEU:HD11	44:UE:149:LEU:CD2	2.36	0.55
44:UE:98:ASP:OD1	44:UE:99:ALA:N	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:188:ILE:HG13	44:UE:395:PHE:CG	2.41	0.55
45:UF:42:LEU:HA	45:UF:45:GLU:CG	2.37	0.55
44:UG:5:ILE:HD12	44:UG:135:PHE:CZ	2.42	0.55
44:UG:206:ASN:OD1	44:UG:207:GLU:N	2.40	0.55
45:UH:337:ASN:HB3	45:UH:340:TYR:HD2	1.71	0.55
44:UI:2:ARG:HD3	44:UI:242:LEU:HD23	1.88	0.55
45:UJ:64:ILE:HG13	45:UJ:89:ASN:ND2	2.22	0.55
45:UJ:259:PRO:HA	44:UK:404:PHE:CZ	2.42	0.55
44:UK:137:VAL:HG22	44:UK:167:LEU:O	2.06	0.55
45:UL:114:ASP:OD1	45:UL:115:SER:N	2.39	0.55
44:UM:182:VAL:O	44:UM:182:VAL:HG22	2.07	0.55
44:VA:206:ASN:OD1	44:VA:207:GLU:N	2.40	0.55
44:VA:416:GLY:O	44:VA:419:SER:N	2.40	0.55
45:VB:42:LEU:HA	45:VB:45:GLU:HG3	1.89	0.55
44:VC:125:LEU:HA	44:VC:128:ASN:OD1	2.07	0.55
45:VD:240:LEU:HD12	45:VD:249:ASP:CB	2.36	0.55
45:VD:256:ASN:C	45:VD:257:LEU:HD12	2.26	0.55
44:VE:16:VAL:O	44:VE:20:CYS:N	2.32	0.55
44:VE:88:HIS:HE1	44:VE:90:GLU:HG2	1.72	0.55
45:VF:101:TRP:CD1	45:VF:146:GLY:HA2	2.42	0.55
44:VG:88:HIS:O	44:VG:91:GLN:HG2	2.07	0.55
44:VG:340:THR:HG23	44:VG:341:ILE:HG13	1.88	0.55
44:VI:98:ASP:O	44:VI:105:ARG:NH1	2.40	0.55
44:VI:120:ASP:HA	44:VI:123:ARG:NH2	2.21	0.55
44:VI:224:TYR:CD1	45:VJ:323:THR:HG21	2.41	0.55
44:VK:222:PRO:HD2	45:VL:324:LYS:HB3	1.89	0.55
44:VK:288:VAL:O	44:VK:292:THR:HG22	2.06	0.55
45:VL:99:ASN:C	45:VL:142:GLY:HA3	2.26	0.55
44:VM:278:ALA:HB2	44:VM:369:ALA:HB1	1.89	0.55
44:WA:64:ARG:NH1	44:WA:129:CYS:SG	2.80	0.55
44:WA:166:LYS:HD2	44:WA:166:LYS:N	2.22	0.55
45:WB:263:LEU:HG	45:WB:422:TYR:CD1	2.42	0.55
44:WC:273:ALA:HB1	44:WC:274:PRO:HA	1.89	0.55
45:WD:169:VAL:HG22	45:WD:202:ILE:CB	2.36	0.55
45:WD:258:ILE:CG1	45:WD:266:PHE:HZ	2.20	0.55
44:WE:290:GLU:O	44:WE:294:SER:N	2.33	0.55
45:WF:175:VAL:O	45:WF:175:VAL:HG23	2.06	0.55
44:WI:221:ARG:NH1	45:WJ:325:GLU:OE1	2.40	0.55
45:WJ:239:CYS:SG	45:WJ:248:SER:HB3	2.47	0.55
45:WN:31:ASP:OD2	45:WN:37:HIS:HB2	2.07	0.55
45:WN:232:ALA:CB	45:WN:268:ILE:HD12	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6H:286:GLU:HG3	45:FH:227:HIS:CD2	2.40	0.55
2:0A:50:PRO:O	35:7R:70:ARG:NH1	2.40	0.55
8:1G:180:PRO:CG	45:LD:174:LYS:HE2	2.36	0.55
22:1L:884:LYS:NZ	45:BD:48:ASN:OD1	2.38	0.55
5:2D:84:SER:CB	45:EJ:355:ASP:HB3	2.36	0.55
29:2F:50:VAL:HG21	44:GC:27:GLU:HA	1.88	0.55
30:2G:37:LYS:HG2	45:JJ:77:ARG:NH2	2.20	0.55
26:3R:128:TYR:OH	44:AK:44:GLY:N	2.39	0.55
35:4R:231:TYR:OH	45:CF:216:LYS:HE3	2.07	0.55
35:4R:470:PHE:O	45:EF:78:ALA:HA	2.06	0.55
37:5B:125:GLN:HG2	45:NH:224:ASP:OD1	2.07	0.55
37:5D:115:ASP:O	44:NM:373:ARG:NH1	2.38	0.55
38:5F:32:ALA:HB3	44:OC:279:GLU:OE1	2.07	0.55
39:5J:109:TYR:HE2	45:NJ:307:HIS:HA	1.71	0.55
35:5R:262:TRP:HB2	35:5R:347:CYS:SG	2.47	0.55
35:5R:456:TYR:CE1	35:5R:469:LYS:HG3	2.42	0.55
41:6G:236:LEU:HG	41:6G:236:LEU:O	2.07	0.55
35:6R:379:LYS:HE3	35:6R:381:PHE:CE2	2.41	0.55
35:6R:417:TYR:CZ	44:EM:372:MET:SD	3.00	0.55
42:8L:393:UNK:O	42:8L:397:UNK:N	2.40	0.55
44:AA:22:GLU:HG3	44:AA:83:TYR:CE2	2.41	0.55
44:AA:109:THR:HG23	44:AA:110:ILE:N	2.22	0.55
44:AA:296:PHE:CD2	44:AA:335:ILE:HG21	2.42	0.55
45:AB:43:GLN:O	45:AB:43:GLN:HG2	2.07	0.55
45:AB:270:PHE:HE2	45:AB:273:LEU:HD21	1.71	0.55
45:AD:12:CYS:HB3	45:AD:138:SER:HB2	1.89	0.55
45:AD:286:VAL:N	45:AD:287:PRO:HD2	2.22	0.55
44:AE:12:GLY:O	44:AE:16:VAL:HG12	2.07	0.55
44:AE:284:GLU:HG3	44:AE:286:LEU:HD21	1.89	0.55
44:AG:176:GLN:HG3	45:AH:331:LEU:HD21	1.88	0.55
44:AG:407:TRP:CZ3	45:AH:255:VAL:HB	2.42	0.55
44:AI:14:ILE:CD1	44:AI:75:ILE:HD11	2.32	0.55
44:AK:408:TYR:HB3	44:AK:413:MET:HE3	1.88	0.55
45:AN:86:ARG:NH1	45:BN:281:TYR:HB2	2.21	0.55
45:AN:86:ARG:HA	45:BN:281:TYR:HD2	1.71	0.55
45:AN:372:THR:HA	45:AN:422:TYR:CE2	2.37	0.55
44:BA:79:ARG:HE	44:BA:92:LEU:HB2	1.72	0.55
44:BA:105:ARG:HA	44:BA:109:THR:HB	1.89	0.55
44:BC:340:THR:HG23	44:BC:341:ILE:HG13	1.89	0.55
45:BD:287:PRO:O	45:BD:290:THR:HG22	2.06	0.55
45:BD:377:MET:O	45:BD:381:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:19:ALA:HA	44:BE:22:GLU:OE1	2.07	0.55
45:BF:134:GLN:O	45:BF:134:GLN:HG3	2.07	0.55
45:BH:173:PRO:CG	45:BH:380:ARG:HD3	2.36	0.55
44:BK:244:PHE:CE2	44:BK:358:GLN:HG2	2.42	0.55
45:BL:6:HIS:NE2	45:BL:8:GLN:HG2	2.21	0.55
45:BL:137:HIS:O	45:BL:168:SER:HA	2.07	0.55
44:BM:54:SER:HB3	44:BM:64:ARG:NH2	2.22	0.55
45:BN:1:MET:SD	45:BN:2:ARG:HD3	2.47	0.55
45:CB:248:SER:CB	45:CB:252:LYS:HG3	2.36	0.55
44:CC:34:GLY:O	44:CC:60:LYS:HA	2.07	0.55
45:CD:143:THR:HG1	48:CD:501:GDP:PB	2.29	0.55
45:CF:58:ARG:CD	45:DF:280:GLN:HG3	2.31	0.55
44:CG:14:ILE:CD1	44:CG:69:ASP:HB2	2.34	0.55
44:CG:182:VAL:HG23	44:CG:185:TYR:HD2	1.71	0.55
45:CJ:304:ASP:CG	45:CJ:306:ARG:HG2	2.28	0.55
44:CK:363:VAL:HG22	44:CK:364:PRO:HD2	1.88	0.55
45:CL:323:THR:O	45:CL:326:VAL:HB	2.06	0.55
44:CM:31:GLN:HG3	44:CM:37:PRO:HD3	1.89	0.55
44:CM:287:SER:HB3	44:CM:290:GLU:HG2	1.89	0.55
45:CN:378:PHE:HA	45:CN:381:VAL:HG12	1.88	0.55
44:DA:32:PRO:HA	44:DA:83:TYR:HE1	1.72	0.55
45:DD:8:GLN:NE2	45:DD:13:GLY:O	2.39	0.55
45:DD:67:ASP:OD1	45:DD:68:LEU:N	2.39	0.55
45:DD:269:GLY:HA2	45:DD:300:MET:CE	2.36	0.55
44:DE:2:ARG:HG2	44:DE:242:LEU:HD11	1.89	0.55
44:DE:7:ILE:HD12	44:DE:122:ILE:HD12	1.89	0.55
44:DE:18:ASN:O	44:DE:22:GLU:HG3	2.06	0.55
44:DE:151:SER:HB3	44:DE:193:SER:CB	2.36	0.55
45:DF:278:SER:HA	45:DF:281:TYR:HD2	1.72	0.55
44:DG:14:ILE:HD13	44:DG:75:ILE:CD1	2.27	0.55
44:DG:240:ALA:HB2	44:DG:320:ARG:NH1	2.21	0.55
45:DH:3:GLU:OE1	45:DH:3:GLU:N	2.38	0.55
45:DH:313:ALA:CB	45:DH:369:GLY:HA2	2.37	0.55
44:DI:217:LEU:HD12	44:DI:367:ASP:HB3	1.89	0.55
45:DJ:68:LEU:HD11	45:DJ:95:THR:OG1	2.06	0.55
44:DK:324:VAL:HG12	44:DK:326:LYS:H	1.71	0.55
45:DL:11:GLN:HG3	45:DL:72:THR:OG1	2.06	0.55
45:DL:404:ASP:OD1	45:DL:407:GLU:HG3	2.07	0.55
45:DN:163:ILE:HD13	45:DN:251:ARG:HD2	1.89	0.55
44:EA:9:VAL:HG21	44:EA:149:LEU:CB	2.36	0.55
45:EB:143:THR:O	45:EB:147:MET:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:318:ARG:HH11	45:EB:358:PRO:HG3	1.72	0.55
44:EC:37:PRO:HD2	44:EC:40:LYS:HB2	1.89	0.55
44:EE:321:GLY:HA3	44:EE:373:ARG:HH22	1.70	0.55
45:EF:132:GLY:N	45:EF:162:ARG:HH22	2.05	0.55
45:EF:163:ILE:HD11	45:EF:250:LEU:HD12	1.89	0.55
45:EF:170:VAL:HG11	45:EF:377:MET:HB2	1.89	0.55
45:EF:187:LEU:HD11	45:EF:408:PHE:CZ	2.42	0.55
44:EK:4:VAL:HG11	44:EK:52:PHE:CE1	2.41	0.55
44:EK:88:HIS:O	44:EK:91:GLN:HG2	2.07	0.55
45:EL:167:PHE:CE2	45:EL:233:MET:HG2	2.41	0.55
45:EL:247:ASN:ND2	44:EM:74:VAL:HG13	2.22	0.55
45:EL:304:ASP:OD1	45:EL:306:ARG:HG2	2.07	0.55
44:EM:315:CYS:SG	44:EM:379:SER:HB3	2.46	0.55
45:EN:187:LEU:HD11	45:EN:408:PHE:HE1	1.72	0.55
44:FA:215:ARG:NH2	44:FA:299:ALA:O	2.40	0.55
44:FA:271:SER:HB3	44:FA:300:ASN:O	2.07	0.55
44:FC:67:PHE:C	44:FC:68:LEU:HD12	2.27	0.55
44:FC:191:THR:O	44:FC:195:LEU:HB2	2.06	0.55
45:FD:234:SER:O	45:FD:238:CYS:HB3	2.07	0.55
44:FE:245:ASP:OD1	44:FE:246:GLY:N	2.40	0.55
45:FF:52:ASN:OD1	45:FF:53:GLU:N	2.39	0.55
44:FG:7:ILE:O	44:FG:137:VAL:HA	2.07	0.55
45:FH:325:GLU:HG3	45:FH:327:ASP:OD2	2.07	0.55
44:FI:194:LEU:O	44:FI:194:LEU:HD23	2.07	0.55
45:FJ:7:ILE:HB	45:FJ:135:ILE:HD12	1.88	0.55
45:FJ:97:ALA:HB3	45:FJ:143:THR:HA	1.89	0.55
44:FK:268:MET:HE2	44:FK:380:ASN:CB	2.37	0.55
44:FK:284:GLU:OE1	44:FK:286:LEU:HD22	2.06	0.55
44:FK:408:TYR:HB3	44:FK:413:MET:HE2	1.89	0.55
45:FL:101:TRP:HE1	45:FL:146:GLY:CA	2.20	0.55
44:FM:75:ILE:HG13	44:FM:93:ILE:O	2.06	0.55
45:FN:11:GLN:O	45:FN:15:GLN:HG2	2.07	0.55
45:FN:190:HIS:CE1	45:FN:411:ALA:HA	2.42	0.55
44:GA:9:VAL:HG22	44:GA:138:PHE:O	2.07	0.55
44:GA:102:ASN:HB3	44:GA:105:ARG:CG	2.37	0.55
44:GA:174:SER:HB2	44:GA:177:VAL:O	2.06	0.55
44:GC:17:GLY:HA2	44:GC:20:CYS:SG	2.46	0.55
45:GD:212:PHE:CZ	45:GD:220:PRO:HG3	2.42	0.55
45:GF:295:ASP:OD1	45:GF:296:ALA:N	2.40	0.55
44:GI:291:ILE:HG13	44:GI:292:THR:N	2.21	0.55
44:GK:137:VAL:HG11	44:GK:154:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:22:GLU:HA	45:GL:81:PHE:HD2	1.71	0.55
45:GL:319:GLY:N	45:GL:354:CYS:O	2.36	0.55
44:GM:301:MET:CE	44:GM:307:PRO:HB3	2.36	0.55
44:HA:115:VAL:O	44:HA:119:LEU:HD23	2.06	0.55
45:HB:272:PRO:HB3	45:HB:289:LEU:CD2	2.37	0.55
45:HD:178:THR:HG22	45:HD:179:VAL:N	2.21	0.55
44:HE:161:TYR:HD2	44:HE:164:LYS:HZ3	1.53	0.55
45:HF:144:GLY:H	48:HF:502:GDP:PB	2.29	0.55
45:HF:256:ASN:C	45:HF:257:LEU:HD12	2.28	0.55
45:HH:62:ARG:HH12	45:HH:127:CYS:CB	2.19	0.55
44:HI:105:ARG:O	44:HI:110:ILE:HG12	2.07	0.55
45:HJ:60:VAL:HG13	45:HJ:60:VAL:O	2.07	0.55
45:HJ:173:PRO:CG	45:HJ:380:ARG:HD3	2.29	0.55
45:HJ:310:TYR:CE1	45:HJ:371:SER:HB3	2.42	0.55
44:HK:344:VAL:HG21	44:HK:346:TRP:CZ2	2.42	0.55
45:HN:68:LEU:HG	45:HN:96:GLY:HA2	1.89	0.55
45:HN:215:LEU:HD13	45:HN:275:SER:CA	2.24	0.55
44:IA:30:ILE:CG2	44:IA:34:GLY:HA2	2.37	0.55
45:IB:154:LYS:O	45:IB:157:GLU:HB3	2.07	0.55
45:IB:383:GLU:HA	45:IB:386:THR:CG2	2.35	0.55
44:IC:7:ILE:HG13	44:IC:66:VAL:CG1	2.37	0.55
44:IC:101:ASN:OD1	44:IC:143:GLY:HA2	2.06	0.55
44:IC:413:MET:CE	44:IC:417:GLU:HG3	2.37	0.55
44:IE:245:ASP:OD1	44:IE:246:GLY:N	2.40	0.55
44:IE:350:GLY:HA2	45:IH:179:VAL:HG12	1.88	0.55
45:IH:68:LEU:CD1	45:IH:97:ALA:HB2	2.37	0.55
45:IH:116:VAL:O	45:IH:120:VAL:HG23	2.07	0.55
44:II:261:PRO:HA	45:IL:394:PHE:HD1	1.70	0.55
45:IJ:19:LYS:HD3	45:IJ:22:GLU:OE2	2.07	0.55
45:IJ:86:ARG:HH21	45:IJ:87:PRO:HG2	1.71	0.55
45:IN:130:LEU:HD21	45:IN:133:PHE:HE1	1.70	0.55
44:JA:233:GLN:HG2	44:JA:272:TYR:CZ	2.42	0.55
45:JB:2:ARG:NH2	45:JB:240:LEU:HA	2.22	0.55
45:JB:318:ARG:HG2	45:JB:354:CYS:HB3	1.89	0.55
44:JC:260:VAL:HG13	45:JF:397:TRP:HE1	1.72	0.55
45:JD:31:ASP:HB2	45:JD:32:PRO:HD2	1.89	0.55
44:JE:332:ILE:HD11	44:JE:353:VAL:HG11	1.88	0.55
44:JE:439:THR:HB	45:JH:391:ARG:NH2	2.22	0.55
44:JI:187:SER:O	44:JI:190:SER:OG	2.12	0.55
44:JK:104:ALA:CB	44:JK:411:GLU:HB3	2.35	0.55
45:JL:32:PRO:HD3	45:JL:81:PHE:CZ	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:71:GLU:OE1	44:JM:73:THR:HB	2.07	0.55
44:JM:75:ILE:HG23	44:JM:78:VAL:CG1	2.37	0.55
45:JN:9:GLY:HA3	45:JN:66:MET:HG2	1.88	0.55
45:JN:66:MET:HE3	45:JN:147:MET:HG2	1.88	0.55
45:JN:214:THR:O	45:JN:275:SER:HB3	2.07	0.55
44:KE:151:SER:HB2	44:KE:193:SER:OG	2.07	0.55
44:KG:174:SER:OG	44:KG:175:PRO:HD2	2.07	0.55
45:KJ:304:ASP:OD1	45:KJ:305:PRO:HD2	2.07	0.55
45:KJ:330:MET:HE3	45:KJ:330:MET:HA	1.89	0.55
45:KJ:427:ASP:O	45:KJ:429:THR:HG23	2.07	0.55
44:KM:17:GLY:HA2	44:KM:20:CYS:SG	2.46	0.55
44:KM:217:LEU:HB3	44:KM:219:ILE:CD1	2.37	0.55
45:KN:318:ARG:N	45:KN:364:ALA:O	2.36	0.55
44:LA:183:GLU:N	44:LA:184:PRO:HD2	2.21	0.55
45:LB:373:ALA:O	45:LB:376:GLU:HG3	2.07	0.55
44:LC:11:GLN:NE2	45:LD:245:GLN:O	2.40	0.55
44:LE:11:GLN:NE2	45:LF:246:LEU:HA	2.20	0.55
44:LE:407:TRP:CH2	45:LF:258:ILE:HD12	2.41	0.55
44:LG:324:VAL:O	44:LG:324:VAL:HG23	2.07	0.55
45:LH:3:GLU:O	45:LH:130:LEU:HD12	2.06	0.55
44:LI:141:VAL:HG11	44:LI:172:TYR:CD1	2.42	0.55
45:LJ:321:MET:CG	45:LJ:363:MET:HE3	2.37	0.55
44:LM:149:LEU:O	44:LM:153:LEU:HG	2.06	0.55
44:LM:324:VAL:HG13	44:LM:325:PRO:HD2	1.89	0.55
44:MA:137:VAL:HG12	44:MA:167:LEU:O	2.07	0.55
44:MA:179:THR:HG21	46:MA:501:GTP:C3'	2.33	0.55
44:MA:210:TYR:CE1	45:MB:324:LYS:HB2	2.42	0.55
44:MA:326:LYS:HG3	45:MD:212:PHE:CZ	2.36	0.55
45:MB:304:ASP:CG	45:MB:306:ARG:HG2	2.27	0.55
44:MC:259:LEU:HD21	44:MC:316:SER:CB	2.37	0.55
45:MF:274:THR:HB	45:MF:279:GLN:HA	1.89	0.55
45:MH:334:GLN:HE22	45:MH:347:ASN:HA	1.71	0.55
44:MI:14:ILE:HD11	44:MI:69:ASP:HB2	1.89	0.55
45:MJ:22:GLU:HG2	45:MJ:81:PHE:CD1	2.41	0.55
44:NA:174:SER:HB2	44:NA:177:VAL:O	2.06	0.55
44:NA:340:THR:O	44:NA:341:ILE:HD13	2.08	0.55
44:NA:370:LYS:CD	44:NA:372:MET:HE1	2.37	0.55
45:ND:116:VAL:HA	45:ND:119:VAL:CG2	2.37	0.55
45:NF:165:GLU:OE2	45:NF:200:MET:HE2	2.07	0.55
45:NF:258:ILE:HD11	45:NF:266:PHE:HZ	1.72	0.55
44:NG:102:ASN:N	44:NG:144:GLY:HA3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:289:ALA:HA	44:NG:292:THR:HG22	1.87	0.55
45:NH:262:ARG:HG2	45:NH:262:ARG:HH11	1.71	0.55
45:NH:284:LEU:CB	45:NH:289:LEU:HD21	2.32	0.55
44:NI:88:HIS:HA	44:OI:283:HIS:ND1	2.22	0.55
44:NI:195:LEU:HD21	44:NI:264:ARG:NH2	2.22	0.55
44:NI:261:PRO:HB3	44:NI:313:MET:HE2	1.89	0.55
45:NJ:95:THR:HG23	45:NJ:96:GLY:N	2.22	0.55
44:NK:421:ALA:O	44:NK:424:ASP:HB2	2.07	0.55
44:OA:286:LEU:N	44:OA:290:GLU:OE2	2.40	0.55
44:OA:313:MET:HB3	44:OA:344:VAL:HB	1.89	0.55
44:OC:331:SER:O	44:OC:334:THR:OG1	2.23	0.55
44:OE:104:ALA:HB3	44:OE:411:GLU:HB2	1.89	0.55
44:OE:242:LEU:HD11	44:OE:251:ASP:HA	1.88	0.55
45:OF:268:ILE:HG22	45:OF:368:VAL:HG22	1.89	0.55
45:OH:286:VAL:HG21	45:OH:325:GLU:OE2	2.07	0.55
44:OI:261:PRO:HA	45:OL:394:PHE:HE2	1.69	0.55
44:OI:261:PRO:HG2	44:OI:313:MET:CE	2.36	0.55
45:OL:23:VAL:HG21	45:OL:230:SER:HB3	1.88	0.55
44:OM:276:ILE:HG22	44:OM:281:ALA:HB2	1.89	0.55
45:ON:221:THR:HG22	45:ON:222:TYR:H	1.72	0.55
45:ON:273:LEU:N	45:ON:292:GLN:OE1	2.40	0.55
44:PA:32:PRO:HB3	44:PA:83:TYR:HD1	1.70	0.55
44:PA:140:SER:CB	44:PA:171:ILE:HB	2.36	0.55
45:PB:133:PHE:HB2	45:PB:164:MET:SD	2.47	0.55
45:PB:421:GLU:HA	45:PB:424:GLN:CG	2.37	0.55
45:PD:22:GLU:OE1	45:PD:81:PHE:HB2	2.07	0.55
45:PD:136:THR:HG23	45:PD:136:THR:O	2.07	0.55
45:PD:293:MET:HG3	45:PD:367:PHE:HB2	1.89	0.55
45:PD:309:ARG:NH1	45:PD:342:VAL:HA	2.21	0.55
44:PE:340:THR:CG2	44:PE:341:ILE:HD12	2.31	0.55
45:PF:202:ILE:CD1	45:PF:229:VAL:HG23	2.36	0.55
44:PG:431:ASP:O	44:PG:434:GLU:HB3	2.07	0.55
45:PH:186:THR:HG23	45:PH:415:MET:CE	2.36	0.55
44:PI:284:GLU:CG	44:PI:286:LEU:HD22	2.26	0.55
44:PI:398:MET:HA	44:PI:398:MET:HE2	1.89	0.55
45:PJ:69:GLU:CD	45:PJ:71:GLY:H	2.10	0.55
45:PJ:161:ASP:O	45:PJ:162:ARG:NE	2.40	0.55
44:PK:407:TRP:CZ3	45:PL:255:VAL:HA	2.42	0.55
44:PM:291:ILE:HA	44:PM:294:SER:OG	2.06	0.55
45:PN:316:LEU:C	45:PN:365:VAL:HG13	2.27	0.55
44:QA:142:GLY:O	46:QA:501:GTP:H4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:67:ASP:HB3	45:QB:73:MET:CE	2.31	0.55
45:QB:311:LEU:HA	45:QB:342:VAL:HG11	1.88	0.55
45:QB:315:ALA:O	45:QB:352:SER:N	2.38	0.55
44:QC:238:LEU:HD22	44:QC:239:THR:HG23	1.88	0.55
45:QD:316:LEU:HB2	45:QD:366:THR:CG2	2.37	0.55
45:QH:51:TYR:HE1	45:QH:61:PRO:HG3	1.72	0.55
44:QI:62:VAL:HG13	44:QI:62:VAL:O	2.07	0.55
44:QI:175:PRO:HB3	44:QI:390:ARG:NE	2.21	0.55
44:QI:339:ARG:O	44:QI:339:ARG:HD3	2.07	0.55
45:QJ:8:GLN:O	45:QJ:8:GLN:HG2	2.07	0.55
44:QK:356:ASN:OD1	44:QK:357:TYR:N	2.40	0.55
45:QL:211:CYS:HA	45:QL:215:LEU:CD2	2.37	0.55
45:QL:263:LEU:HB3	45:QL:370:ASN:HD21	1.72	0.55
44:RC:203:MET:HG3	44:RC:384:ILE:CD1	2.36	0.55
45:RD:87:PRO:O	45:RD:90:PHE:HB2	2.07	0.55
45:RF:7:ILE:HG12	45:RF:64:ILE:HD13	1.88	0.55
44:RG:272:TYR:HD1	44:RG:376:CYS:HB2	1.72	0.55
45:RJ:101:TRP:HB3	45:RJ:398:TYR:HE1	1.71	0.55
44:RM:152:LEU:HD11	44:RM:156:ARG:HE	1.72	0.55
44:RM:192:HIS:ND1	44:RM:424:ASP:OD2	2.36	0.55
44:RM:434:GLU:O	44:RM:437:ILE:HG12	2.07	0.55
45:SB:42:LEU:CA	45:SB:45:GLU:HG3	2.33	0.55
45:SB:342:VAL:HG13	45:SB:345:ILE:CG2	2.36	0.55
44:SC:55:GLU:OE2	44:SC:58:ALA:N	2.40	0.55
44:SC:93:ILE:HD11	44:SC:121:ARG:HH21	1.72	0.55
44:SC:195:LEU:O	44:SC:266:HIS:NE2	2.28	0.55
44:SC:212:ILE:CD1	44:SC:300:ASN:HA	2.35	0.55
45:SD:324:LYS:NZ	44:SE:214:ARG:HH21	2.05	0.55
45:SF:289:LEU:O	45:SF:293:MET:N	2.37	0.55
44:SG:203:MET:O	44:SG:303:ALA:HB2	2.07	0.55
44:SG:226:ASN:HB3	44:SG:367:ASP:OD2	2.07	0.55
44:SI:88:HIS:O	44:SI:91:GLN:HG2	2.07	0.55
44:SK:104:ALA:HB1	44:SK:411:GLU:HB2	1.88	0.55
45:SL:344:TRP:CZ3	45:SL:345:ILE:HB	2.41	0.55
45:SN:66:MET:HG3	45:SN:147:MET:HE1	1.89	0.55
45:SN:105:HIS:CA	45:SN:150:LEU:HD12	2.37	0.55
45:SN:387:ALA:O	45:SN:390:ARG:HG2	2.08	0.55
45:TB:246:LEU:HD13	45:TB:353:ILE:CD1	2.25	0.55
45:TD:164:MET:HB3	45:TD:197:ASP:CB	2.36	0.55
44:TE:386:GLU:O	44:TE:390:ARG:HG2	2.06	0.55
44:TE:439:THR:HG21	45:TF:390:ARG:CD	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:173:PRO:HG3	45:TF:380:ARG:CD	2.37	0.55
44:TI:200:VAL:HG13	44:TI:268:MET:CE	2.37	0.55
45:TL:342:VAL:HG13	45:TL:345:ILE:CG2	2.37	0.55
44:TM:202:VAL:CG2	44:TM:268:MET:HB3	2.16	0.55
45:TN:21:TRP:HZ3	45:TN:50:TYR:HB3	1.71	0.55
45:TN:374:ILE:HD12	45:TN:378:PHE:HE2	1.72	0.55
44:UA:317:MET:HE3	44:UA:375:VAL:HG22	1.87	0.55
44:UA:388:PHE:CE2	44:UA:428:LEU:HD21	2.41	0.55
45:UB:178:THR:HG22	45:UB:180:VAL:H	1.72	0.55
45:UB:255:VAL:HG11	44:UC:101:ASN:HB2	1.89	0.55
44:UC:76:ASP:O	44:UC:80:THR:HG23	2.06	0.55
44:UC:121:ARG:HH12	44:UC:124:LYS:HD2	1.72	0.55
45:UJ:278:SER:O	45:UJ:281:TYR:HB3	2.08	0.55
44:UK:169:PHE:CZ	44:UK:235:ILE:HD12	2.41	0.55
44:UM:132:LEU:HD21	44:UM:135:PHE:CZ	2.42	0.55
45:VD:47:ILE:HG12	45:VD:51:TYR:N	2.22	0.55
45:VD:113:ILE:HA	45:VD:116:VAL:HG12	1.89	0.55
45:VD:113:ILE:HD12	45:VD:150:LEU:HD22	1.89	0.55
44:VE:28:HIS:CD2	44:VE:48:ALA:HB1	2.42	0.55
44:VE:137:VAL:HG11	44:VE:154:LEU:HD21	1.89	0.55
45:VJ:4:ILE:C	45:VJ:62:ARG:HH22	2.09	0.55
45:VJ:267:MET:HE1	45:VJ:305:PRO:HB3	1.89	0.55
44:VK:142:GLY:O	46:VK:501:GTP:H5'	2.07	0.55
44:VM:13:GLY:CA	44:VM:16:VAL:HG12	2.35	0.55
44:WA:102:ASN:HD21	44:WA:411:GLU:HG3	1.72	0.55
45:WB:173:PRO:CG	45:WB:380:ARG:HD3	2.37	0.55
45:WB:207:LEU:CB	45:WB:225:LEU:HD22	2.36	0.55
44:WC:119:LEU:HD21	44:WC:153:LEU:HD23	1.89	0.55
44:WC:188:ILE:HG23	44:WC:425:LEU:HD11	1.88	0.55
44:WG:188:ILE:HD12	44:WG:425:LEU:CD1	2.37	0.55
44:WK:105:ARG:HH21	44:WK:110:ILE:HD11	1.71	0.55
44:WK:185:TYR:HB3	44:WK:408:TYR:HE2	1.71	0.55
44:WK:383:ALA:O	44:WK:386:GLU:HG2	2.07	0.55
45:WL:77:ARG:HH21	45:WL:90:PHE:HD2	1.54	0.55
45:WL:248:SER:CB	45:WL:252:LYS:HD2	2.37	0.55
45:WL:370:ASN:OD1	45:WL:422:TYR:OH	2.25	0.55
44:WM:272:TYR:O	44:WM:275:ILE:HD11	2.07	0.55
44:WM:277:SER:HA	44:WM:369:ALA:HB2	1.89	0.55
45:WN:110:ALA:O	45:WN:113:ILE:HG22	2.06	0.55
45:WN:315:ALA:HB1	45:WN:317:PHE:HE1	1.71	0.55
2:0A:150:LEU:CA	35:7R:78:ILE:HD11	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0G:172:TYR:CE1	44:KM:130:THR:HG22	2.41	0.54
18:1F:153:LYS:HA	45:GL:118:ASP:OD2	2.07	0.54
20:1J:125:ARG:HH11	44:IE:280:LYS:NZ	2.05	0.54
26:1R:392:LEU:HA	45:ED:276:ARG:NH1	2.22	0.54
27:1W:194:HIS:HA	45:LD:221:THR:HG21	1.88	0.54
16:1X:103:ASN:ND2	44:MC:370:LYS:H	2.05	0.54
2:2A:17:GLN:HE22	35:5R:46:GLU:H	1.54	0.54
22:2L:526:ARG:HB2	45:BN:362:LYS:HE3	1.88	0.54
14:2U:445:MET:HB3	44:WI:278:ALA:HB1	1.89	0.54
27:2W:202:GLN:NE2	44:KM:57:GLY:O	2.40	0.54
28:3C:68:ASN:H	44:LA:84:ARG:NH2	1.98	0.54
31:3H:205:GLN:O	44:AG:82:THR:HG21	2.05	0.54
15:3V:234:THR:HG21	44:VA:50:ASN:OD1	2.06	0.54
38:5F:208:PRO:HD3	44:LG:430:LYS:CE	2.37	0.54
38:5H:27:ARG:NH2	45:OL:320:ARG:HH22	2.05	0.54
39:5K:37:GLU:HG3	44:JK:419:SER:HB2	1.88	0.54
39:5K:94:ILE:HG12	44:JM:431:ASP:OD1	2.06	0.54
11:5Q:90:GLU:HG2	11:5Q:104:ARG:NH1	2.22	0.54
35:5R:127:ILE:HD11	35:5R:150:ILE:CG1	2.38	0.54
35:5R:322:THR:OG1	35:5R:324:LYS:HG2	2.07	0.54
41:6G:274:ASN:C	41:6G:276:PRO:HD2	2.27	0.54
11:6Q:68:THR:HG21	11:6Q:152:LEU:CD2	2.37	0.54
35:7R:477:ASN:HB2	35:7R:483:LYS:C	2.27	0.54
42:8N:83:UNK:HA	42:8N:86:UNK:CB	2.37	0.54
44:AA:155:GLU:HA	44:AA:197:HIS:CE1	2.42	0.54
45:AB:203:ASP:O	45:AB:207:LEU:HD23	2.07	0.54
45:AF:135:ILE:HG13	45:AF:152:ILE:CD1	2.35	0.54
45:AF:170:VAL:HG23	45:AF:171:PRO:HD2	1.89	0.54
44:AI:291:ILE:HD12	44:AI:375:VAL:CG2	2.37	0.54
45:AJ:165:GLU:OE2	45:AJ:250:LEU:HD22	2.08	0.54
45:AJ:272:PRO:HB3	45:AJ:289:LEU:CD2	2.36	0.54
44:AK:198:THR:HG22	44:AK:200:VAL:H	1.72	0.54
45:AL:267:MET:HE3	45:AL:301:CYS:HB2	1.89	0.54
44:AM:4:VAL:HG13	44:AM:134:GLY:O	2.07	0.54
44:AM:183:GLU:HG2	44:AM:184:PRO:N	2.21	0.54
45:BD:69:GLU:OE1	45:BD:71:GLY:N	2.36	0.54
44:BI:260:VAL:HG13	44:BI:260:VAL:O	2.07	0.54
44:BI:262:TYR:OH	45:BL:393:ALA:HB2	2.07	0.54
44:BI:407:TRP:CE3	45:BJ:255:VAL:HG22	2.42	0.54
44:BK:236:SER:HA	44:BK:239:THR:HG22	1.89	0.54
45:BL:68:LEU:HD23	45:BL:97:ALA:CA	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:204:ASN:OD1	48:BL:502:GDP:O2'	2.25	0.54
45:BN:214:THR:O	45:BN:216:LYS:HG3	2.08	0.54
44:CC:288:VAL:HG21	44:CC:327:ASP:HB3	1.87	0.54
44:CC:317:MET:HB3	44:CC:377:MET:HB3	1.89	0.54
45:CD:4:ILE:HG12	45:CD:50:TYR:HE1	1.72	0.54
45:CD:36:TYR:CE2	45:CD:44:LEU:HG	2.41	0.54
45:CF:405:GLU:HA	45:CF:408:PHE:CD2	2.34	0.54
44:CG:97:GLU:CG	44:CG:105:ARG:HH12	2.20	0.54
45:CH:42:LEU:HA	45:CH:45:GLU:OE1	2.07	0.54
44:CI:13:GLY:HA2	44:CI:16:VAL:CG1	2.36	0.54
44:CI:21:TRP:CH2	44:CI:63:PRO:HB3	2.42	0.54
44:CK:70:LEU:HD12	44:CK:145:THR:HB	1.89	0.54
45:CL:173:PRO:HG3	45:CL:380:ARG:HD3	1.87	0.54
45:CL:286:VAL:HB	45:CL:287:PRO:HD3	1.88	0.54
45:CL:377:MET:HA	45:CL:380:ARG:HD2	1.88	0.54
44:CM:137:VAL:O	44:CM:169:PHE:N	2.31	0.54
45:CN:47:ILE:HG21	45:CN:59:TYR:HD2	1.72	0.54
44:DA:88:HIS:O	44:DA:91:GLN:HG2	2.07	0.54
44:DA:114:ILE:O	44:DA:114:ILE:HG22	2.07	0.54
44:DA:318:MET:HE2	44:DA:318:MET:HA	1.88	0.54
44:DC:216:ASN:HB3	44:DC:275:ILE:O	2.07	0.54
44:DC:268:MET:HB2	44:DC:380:ASN:HA	1.88	0.54
44:DE:99:ALA:HA	44:DE:110:ILE:CD1	2.37	0.54
44:DE:183:GLU:N	44:DE:184:PRO:HD2	2.21	0.54
45:DF:280:GLN:HG2	45:DF:281:TYR:HD1	1.72	0.54
45:DF:303:ALA:HB1	45:DF:376:GLU:HB3	1.89	0.54
45:DF:318:ARG:C	45:DF:321:MET:HE1	2.27	0.54
45:DH:270:PHE:O	45:DH:298:ASN:ND2	2.40	0.54
44:DI:183:GLU:N	44:DI:184:PRO:HD2	2.21	0.54
44:DI:203:MET:HG3	44:DI:384:ILE:HD11	1.88	0.54
45:DJ:304:ASP:OD1	45:DJ:306:ARG:HG2	2.06	0.54
44:DK:168:GLY:N	44:DK:200:VAL:O	2.39	0.54
44:DK:307:PRO:HB3	44:DK:312:TYR:OH	2.07	0.54
45:DL:1:MET:CE	45:DL:2:ARG:HD3	2.37	0.54
45:DL:6:HIS:HB3	45:DL:63:ALA:CB	2.38	0.54
45:DL:133:PHE:HB2	45:DL:164:MET:CE	2.36	0.54
44:DM:12:GLY:O	44:DM:16:VAL:HG23	2.06	0.54
45:EB:345:ILE:HG23	45:EB:348:ASN:HD22	1.72	0.54
45:ED:2:ARG:NH2	44:EE:73:THR:OG1	2.40	0.54
45:ED:210:ILE:HD12	45:ED:300:MET:HG2	1.89	0.54
45:EF:268:ILE:HG22	45:EF:368:VAL:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:341:PHE:HD2	45:EH:348:ASN:ND2	2.05	0.54
44:EI:88:HIS:HB3	44:EI:91:GLN:CG	2.37	0.54
45:EJ:317:PHE:HD1	45:EJ:365:VAL:CG1	2.20	0.54
45:EL:21:TRP:CZ2	45:EL:61:PRO:HB3	2.42	0.54
45:EL:51:TYR:HE1	45:EL:61:PRO:HG3	1.71	0.54
44:EM:356:ASN:OD1	44:EM:357:TYR:N	2.40	0.54
45:EN:123:GLU:OE1	45:EN:123:GLU:N	2.40	0.54
45:EN:163:ILE:HG21	45:EN:251:ARG:HG3	1.89	0.54
45:EN:222:TYR:HD1	45:EN:225:LEU:HD12	1.71	0.54
44:FA:404:PHE:CD2	45:FB:259:PRO:HA	2.42	0.54
45:FD:83:GLN:OE1	45:FD:83:GLN:HA	2.07	0.54
44:FE:221:ARG:HD2	45:FF:322:SER:HB2	1.88	0.54
45:FF:65:LEU:HD22	45:FF:90:PHE:CE1	2.43	0.54
45:FF:66:MET:HG3	45:FF:147:MET:CE	2.36	0.54
44:FI:238:LEU:HD21	44:FI:255:PHE:HE2	1.72	0.54
44:FI:261:PRO:HG3	45:FL:394:PHE:CZ	2.41	0.54
45:FJ:7:ILE:HB	45:FJ:135:ILE:HD11	1.87	0.54
45:FJ:117:LEU:HA	45:FJ:120:VAL:HG12	1.89	0.54
45:FJ:318:ARG:CZ	45:FJ:358:PRO:HG3	2.37	0.54
44:FK:188:ILE:HD12	44:FK:425:LEU:CD1	2.38	0.54
44:FM:219:ILE:CG2	44:FM:222:PRO:HB3	2.37	0.54
45:FN:315:ALA:HB3	45:FN:351:SER:HA	1.88	0.54
45:FN:321:MET:HG2	45:FN:326:VAL:CG2	2.37	0.54
44:GA:328:VAL:O	44:GA:332:ILE:HG12	2.06	0.54
44:GC:98:ASP:OD1	44:GC:99:ALA:N	2.40	0.54
45:GF:99:ASN:C	45:GF:142:GLY:HA3	2.27	0.54
44:GG:155:GLU:OE1	44:GG:155:GLU:HA	2.06	0.54
44:GI:54:SER:CB	44:GI:64:ARG:HH12	2.15	0.54
44:GI:407:TRP:HH2	45:GJ:254:ALA:HB1	1.71	0.54
45:GL:207:LEU:O	45:GL:210:ILE:HG22	2.07	0.54
45:GL:360:GLY:C	45:GL:361:LEU:HD22	2.27	0.54
45:GL:387:ALA:HA	45:GL:390:ARG:CZ	2.38	0.54
45:GN:270:PHE:HA	45:GN:365:VAL:O	2.06	0.54
44:HA:353:VAL:CG2	45:HD:177:ASP:HA	2.36	0.54
44:HA:392:ASP:OD1	44:HA:422:ARG:NE	2.39	0.54
44:HC:181:VAL:HG12	45:HD:256:ASN:OD1	2.07	0.54
44:HE:28:HIS:CE1	44:HE:49:PHE:HA	2.41	0.54
44:HG:10:GLY:O	44:HG:14:ILE:N	2.30	0.54
45:HH:180:VAL:O	45:HH:180:VAL:HG22	2.07	0.54
44:HI:174:SER:HB3	44:HI:207:GLU:HB2	1.88	0.54
44:HK:189:LEU:HD11	44:HK:418:PHE:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:224:TYR:CE2	45:HL:246:LEU:HD11	2.43	0.54
45:HL:60:VAL:HG11	45:HL:86:ARG:NH2	2.22	0.54
45:HN:325:GLU:CA	45:HN:328:GLU:HG2	2.34	0.54
44:IA:270:SER:O	44:IA:302:MET:HE3	2.07	0.54
45:ID:121:ARG:NH2	45:ID:158:GLU:OE2	2.40	0.54
45:ID:274:THR:HB	45:ID:282:ARG:HH12	1.72	0.54
45:ID:274:THR:HG21	45:ID:279:GLN:HG3	1.89	0.54
44:IE:319:TYR:HE2	44:IE:328:VAL:HG22	1.72	0.54
44:IG:244:PHE:CE2	44:IG:358:GLN:HG2	2.41	0.54
45:IH:203:ASP:OD2	45:IH:301:CYS:HB3	2.07	0.54
45:IJ:325:GLU:HA	45:IJ:328:GLU:HG2	1.89	0.54
44:IK:13:GLY:HA2	44:IK:16:VAL:HG22	1.88	0.54
44:IK:142:GLY:O	46:IK:501:GTP:H5'	2.07	0.54
44:IK:221:ARG:HG3	45:IL:322:SER:CB	2.37	0.54
44:IK:348:PRO:HD3	45:IN:388:MET:CE	2.37	0.54
44:IM:88:HIS:H	44:IM:91:GLN:NE2	2.05	0.54
44:IM:172:TYR:O	44:IM:205:ASP:HA	2.06	0.54
45:IN:234:SER:O	45:IN:238:CYS:HB3	2.08	0.54
44:JA:239:THR:O	44:JA:243:ARG:NH1	2.40	0.54
44:JA:297:GLU:OE2	44:JA:299:ALA:HB3	2.07	0.54
44:JC:88:HIS:HB3	44:JC:91:GLN:HG2	1.88	0.54
44:JC:349:THR:CG2	45:JF:384:GLN:HE22	2.19	0.54
45:JD:376:GLU:HA	45:JD:379:LYS:CG	2.36	0.54
45:JF:253:LEU:HD11	45:JF:314:SER:CB	2.37	0.54
44:JG:6:SER:O	44:JG:66:VAL:HG12	2.07	0.54
44:JG:270:SER:HB2	44:JG:377:MET:O	2.08	0.54
44:JK:145:THR:HG21	46:JK:501:GTP:O3G	2.07	0.54
45:JL:180:VAL:O	45:JL:180:VAL:HG22	2.07	0.54
44:JM:21:TRP:CH2	44:JM:63:PRO:HB3	2.42	0.54
45:JN:200:MET:HB3	45:JN:266:PHE:HB2	1.89	0.54
44:KA:261:PRO:HA	45:KD:394:PHE:CZ	2.42	0.54
44:KC:182:VAL:HG22	44:KC:182:VAL:O	2.07	0.54
45:KD:68:LEU:HG	45:KD:143:THR:OG1	2.07	0.54
45:KD:383:GLU:O	45:KD:386:THR:HG22	2.07	0.54
44:KE:21:TRP:CZ2	44:KE:65:ALA:HB2	2.42	0.54
44:KE:233:GLN:HB3	44:KE:272:TYR:CE2	2.43	0.54
45:KF:222:TYR:CD1	45:KF:225:LEU:HD12	2.41	0.54
45:KH:9:GLY:CA	45:KH:66:MET:HG3	2.37	0.54
45:KH:45:GLU:C	45:KH:46:ARG:HD2	2.27	0.54
45:KL:276:ARG:NH1	45:KL:279:GLN:HE21	2.05	0.54
44:KM:363:VAL:CG2	44:KM:364:PRO:HD2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:2:ARG:HB2	45:LB:131:GLN:CG	2.37	0.54
44:LC:288:VAL:O	44:LC:291:ILE:HG12	2.07	0.54
45:LD:7:ILE:HD12	45:LD:151:LEU:HD23	1.89	0.54
44:LE:277:SER:OG	44:LE:280:LYS:HG2	2.07	0.54
44:LE:362:VAL:CG1	44:LE:370:LYS:HB3	2.36	0.54
45:LH:321:MET:HE3	45:LH:353:ILE:CD1	2.36	0.54
45:LJ:251:ARG:NH1	45:LJ:251:ARG:HB3	2.23	0.54
45:LL:170:VAL:CG2	45:LL:171:PRO:HD2	2.37	0.54
45:LL:183:TYR:O	45:LL:186:THR:HG22	2.06	0.54
44:LM:422:ARG:HH11	44:LM:426:ALA:HB2	1.71	0.54
45:LN:12:CYS:HB3	45:LN:138:SER:HB2	1.89	0.54
45:LN:234:SER:HA	45:LN:237:THR:HG22	1.88	0.54
45:MB:42:LEU:HD13	45:MB:356:ILE:CG2	2.37	0.54
45:MB:77:ARG:HD3	45:MB:90:PHE:CE2	2.42	0.54
45:MD:46:ARG:HG3	45:MD:49:VAL:HG23	1.89	0.54
44:ME:237:SER:CA	44:ME:320:ARG:HH11	2.19	0.54
45:MF:77:ARG:HG3	45:MF:82:GLY:O	2.08	0.54
45:MF:296:ALA:HB1	45:MF:305:PRO:HD2	1.87	0.54
44:MG:88:HIS:CG	44:MG:89:PRO:HD2	2.42	0.54
44:MG:233:GLN:OE1	44:MG:233:GLN:HA	2.06	0.54
44:MG:297:GLU:CD	44:MG:299:ALA:H	2.10	0.54
45:MH:209:ASP:OD1	45:MH:297:LYS:NZ	2.32	0.54
45:MJ:21:TRP:CZ3	45:MJ:61:PRO:HB3	2.42	0.54
44:MK:71:GLU:OE1	45:ML:247:ASN:ND2	2.40	0.54
45:ML:68:LEU:HD12	45:ML:97:ALA:HB2	1.89	0.54
44:MM:248:LEU:N	44:MM:355:ILE:HB	2.22	0.54
45:ND:213:ARG:HH22	45:ND:298:ASN:CG	2.10	0.54
44:NG:71:GLU:HG3	44:NG:98:ASP:CB	2.34	0.54
44:NG:254:GLU:CG	45:NJ:98:GLY:HA2	2.36	0.54
44:NG:360:PRO:HG3	44:NG:371:VAL:O	2.07	0.54
45:NH:36:TYR:CE1	45:NH:44:LEU:HD11	2.42	0.54
44:NI:13:GLY:HA2	44:NI:16:VAL:HG12	1.87	0.54
44:NI:413:MET:HA	44:NI:413:MET:CE	2.36	0.54
44:NK:95:GLY:O	44:NK:96:LYS:HE2	2.07	0.54
45:NL:190:HIS:NE2	45:NL:410:GLU:OE1	2.39	0.54
44:NM:276:ILE:HG22	44:NM:369:ALA:HB3	1.88	0.54
44:OA:2:ARG:NH2	45:OD:70:PRO:HD2	2.22	0.54
44:OA:207:GLU:O	44:OA:210:TYR:N	2.38	0.54
45:OB:28:HIS:HE1	45:OB:241:ARG:HD2	1.72	0.54
44:OC:104:ALA:HA	44:OC:413:MET:HE1	1.89	0.54
44:OC:173:PRO:HG3	44:OC:187:SER:OG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:238:LEU:HG	44:OC:255:PHE:HE2	1.72	0.54
45:OD:34:GLY:O	45:OD:58:ARG:HA	2.07	0.54
45:OD:139:LEU:HD22	45:OD:188:SER:OG	2.08	0.54
45:OD:282:ARG:NH1	45:OD:284:LEU:HD23	2.22	0.54
44:OE:326:LYS:HD2	45:OH:220:PRO:HG2	1.87	0.54
45:OF:64:ILE:HG21	45:OF:119:VAL:HG11	1.89	0.54
45:OH:65:LEU:HD22	45:OH:90:PHE:CE1	2.42	0.54
45:OH:137:HIS:HB2	45:OH:144:GLY:CA	2.37	0.54
45:OH:192:LEU:HD22	45:OH:196:ALA:HB2	1.87	0.54
45:OH:207:LEU:HD23	45:OH:300:MET:SD	2.47	0.54
45:OH:286:VAL:HG13	45:OH:321:MET:HE3	1.89	0.54
45:OH:293:MET:CE	45:OH:365:VAL:HG11	2.37	0.54
44:OI:3:GLU:HG3	44:OI:129:CYS:SG	2.47	0.54
44:OI:147:SER:OG	44:OI:190:SER:HB2	2.07	0.54
44:OI:287:SER:O	44:OI:291:ILE:HG12	2.06	0.54
45:OJ:110:ALA:HA	45:OJ:113:ILE:CG2	2.36	0.54
44:OK:181:VAL:HG12	45:OL:256:ASN:OD1	2.07	0.54
44:OM:358:GLN:OE1	44:OM:359:PRO:HD2	2.06	0.54
44:OM:427:ALA:O	44:OM:430:LYS:HB2	2.07	0.54
45:ON:268:ILE:HG13	45:ON:300:MET:HE2	1.89	0.54
45:ON:319:GLY:O	45:ON:355:ASP:HA	2.07	0.54
44:PA:256:GLN:HB2	44:PA:260:VAL:CG2	2.37	0.54
44:PA:408:TYR:HB3	44:PA:413:MET:HE2	1.88	0.54
45:PD:268:ILE:HG13	45:PD:300:MET:CE	2.38	0.54
44:PE:67:PHE:C	44:PE:68:LEU:HD22	2.28	0.54
44:PE:321:GLY:HA2	44:PE:359:PRO:CB	2.37	0.54
45:PF:156:ARG:HH11	45:PF:160:PRO:HA	1.69	0.54
45:PF:208:TYR:OH	45:PF:225:LEU:HD11	2.08	0.54
45:PH:286:VAL:HG11	45:PH:325:GLU:CG	2.29	0.54
44:PI:184:PRO:O	44:PI:188:ILE:HG12	2.07	0.54
44:PI:251:ASP:CG	44:PI:253:THR:HG22	2.26	0.54
45:PJ:150:LEU:O	45:PJ:150:LEU:HD23	2.07	0.54
45:PJ:200:MET:HE1	45:PJ:266:PHE:HB2	1.87	0.54
45:PJ:202:ILE:HG21	45:PJ:207:LEU:HD21	1.89	0.54
44:PM:296:PHE:HE2	44:PM:335:ILE:HG13	1.71	0.54
44:QA:182:VAL:C	44:QA:184:PRO:HD2	2.27	0.54
45:QB:345:ILE:HB	44:QC:398:MET:HE2	1.89	0.54
44:QC:206:ASN:HA	44:QC:209:ILE:CD1	2.37	0.54
44:QC:439:THR:HB	45:QD:391:ARG:NH1	2.22	0.54
45:QD:246:LEU:HD13	45:QD:353:ILE:CD1	2.30	0.54
44:QE:311:LYS:HG3	44:QE:342:GLN:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:207:LEU:HD23	45:QF:300:MET:SD	2.46	0.54
45:QH:167:PHE:HE1	45:QH:200:MET:CE	2.19	0.54
45:QJ:148:GLY:O	45:QJ:152:ILE:HG12	2.07	0.54
45:QJ:325:GLU:HA	45:QJ:328:GLU:HG2	1.89	0.54
45:QL:122:LYS:O	45:QL:126:GLY:N	2.40	0.54
44:QM:258:ASN:HD21	45:QN:178:THR:HG23	1.72	0.54
45:QN:52:ASN:N	45:QN:60:VAL:O	2.27	0.54
45:QN:267:MET:CG	45:QN:301:CYS:HB2	2.37	0.54
44:RA:70:LEU:HD22	44:RA:110:ILE:HD12	1.90	0.54
44:RA:143:GLY:O	44:RA:147:SER:OG	2.13	0.54
44:RA:287:SER:HB3	44:RA:290:GLU:HG2	1.89	0.54
45:RB:117:LEU:CD1	45:RB:154:LYS:HG2	2.37	0.54
45:RD:116:VAL:HG13	45:RD:151:LEU:HD12	1.89	0.54
45:RD:164:MET:HA	45:RD:164:MET:CE	2.36	0.54
45:RD:331:LEU:HD21	44:RE:176:GLN:HG3	1.89	0.54
44:RE:2:ARG:HD3	44:RE:242:LEU:HD23	1.88	0.54
44:RE:166:LYS:HZ1	44:RE:199:ASP:N	2.04	0.54
44:RE:325:PRO:HB2	45:RF:208:TYR:OH	2.07	0.54
45:RF:36:TYR:CE2	45:RF:44:LEU:HD11	2.42	0.54
44:RI:169:PHE:CD1	44:RI:202:VAL:HG11	2.42	0.54
45:RJ:3:GLU:HG3	45:RJ:62:ARG:NH1	2.21	0.54
45:RJ:185:ALA:O	45:RJ:189:VAL:HG23	2.07	0.54
44:RK:261:PRO:HG2	44:RK:313:MET:HG2	1.87	0.54
44:RM:133:GLN:OE1	44:RM:133:GLN:HA	2.07	0.54
44:RM:285:GLN:HE21	44:RM:287:SER:HB2	1.72	0.54
44:RM:391:LEU:HD12	44:RM:394:LYS:NZ	2.21	0.54
46:RM:501:GTP:H8	46:RM:501:GTP:O2A	1.90	0.54
45:RN:198:GLU:OE2	45:RN:254:ALA:HB2	2.07	0.54
45:SB:8:GLN:NE2	45:SB:65:LEU:HG	2.22	0.54
44:SC:271:SER:HB2	44:SC:377:MET:SD	2.47	0.54
45:SD:105:HIS:CD2	45:SD:150:LEU:HD12	2.41	0.54
45:SF:221:THR:HG22	45:SF:222:TYR:N	2.23	0.54
45:SH:7:ILE:HB	45:SH:135:ILE:CG2	2.35	0.54
44:SK:145:THR:HG22	46:SK:501:GTP:PG	2.47	0.54
44:SK:183:GLU:N	44:SK:184:PRO:HD2	2.22	0.54
44:SK:328:VAL:HG11	44:SK:353:VAL:HG21	1.87	0.54
45:SL:103:LYS:HG3	45:SL:107:THR:OG1	2.08	0.54
45:SL:217:LEU:CD1	45:SL:220:PRO:HD3	2.36	0.54
44:SM:344:VAL:HG21	44:SM:346:TRP:CZ2	2.42	0.54
45:SN:390:ARG:HG3	45:SN:391:ARG:N	2.23	0.54
44:TA:75:ILE:HG23	44:TA:92:LEU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:114:ASP:OD1	45:TB:115:SER:N	2.39	0.54
45:TB:341:PHE:HB3	45:TB:348:ASN:HD21	1.72	0.54
45:TD:300:MET:O	45:TD:300:MET:HG3	2.07	0.54
45:TF:230:SER:HA	45:TF:233:MET:CE	2.37	0.54
44:TG:88:HIS:HB3	44:TG:91:GLN:HG2	1.88	0.54
45:TH:248:SER:OG	45:TH:252:LYS:HD2	2.07	0.54
44:TI:313:MET:HE3	44:TI:380:ASN:C	2.28	0.54
44:TK:268:MET:HB3	44:TK:380:ASN:HB2	1.88	0.54
45:TL:311:LEU:O	45:TL:345:ILE:HD13	2.07	0.54
44:TM:88:HIS:O	44:TM:91:GLN:HG2	2.06	0.54
44:TM:169:PHE:CE1	44:TM:235:ILE:HD11	2.43	0.54
45:TN:266:PHE:CD1	45:TN:370:ASN:HB2	2.43	0.54
44:UA:19:ALA:HA	44:UA:22:GLU:OE1	2.07	0.54
44:UA:288:VAL:O	44:UA:289:ALA:HB3	2.07	0.54
45:UB:4:ILE:HD11	45:UB:50:TYR:CZ	2.42	0.54
45:UB:305:PRO:HB2	45:UB:310:TYR:OH	2.07	0.54
45:UD:185:ALA:O	45:UD:188:SER:N	2.37	0.54
45:UD:325:GLU:HB3	44:UE:221:ARG:CZ	2.37	0.54
44:UE:33:ASP:HB3	44:UE:35:GLN:NE2	2.21	0.54
44:UE:319:TYR:CD2	44:UE:323:VAL:HG21	2.42	0.54
45:UF:20:PHE:CE1	45:UF:233:MET:HB2	2.42	0.54
45:UF:405:GLU:HA	45:UF:408:PHE:HD2	1.72	0.54
44:UG:311:LYS:HD2	44:UG:342:GLN:CG	2.35	0.54
44:UG:311:LYS:O	44:UG:381:SER:HB2	2.07	0.54
44:UG:352:LYS:HB2	45:UH:178:THR:HA	1.89	0.54
45:UH:341:PHE:HB3	45:UH:348:ASN:HD21	1.72	0.54
44:UI:332:ILE:HD12	44:UI:351:PHE:CD2	2.42	0.54
45:UJ:313:ALA:O	45:UJ:349:ILE:HA	2.07	0.54
44:UK:168:GLY:O	44:UK:202:VAL:HG22	2.07	0.54
45:UL:192:LEU:HD12	45:UL:196:ALA:HB2	1.88	0.54
45:UL:243:PRO:HG3	44:UM:77:GLU:OE2	2.07	0.54
44:UM:201:ALA:O	44:UM:268:MET:N	2.35	0.54
44:VA:67:PHE:C	44:VA:68:LEU:HD12	2.27	0.54
45:VD:167:PHE:HD2	45:VD:233:MET:SD	2.30	0.54
45:VD:213:ARG:HH21	45:VD:297:LYS:CE	2.18	0.54
44:VE:121:ARG:O	44:VE:125:LEU:HD23	2.06	0.54
45:VF:257:LEU:O	45:VF:312:THR:HG21	2.08	0.54
44:VG:13:GLY:CA	44:VG:16:VAL:HG12	2.36	0.54
44:VG:122:ILE:HG21	44:VG:157:LEU:HD21	1.89	0.54
45:VH:302:ALA:HB3	45:VH:377:MET:CE	2.37	0.54
44:VI:189:LEU:HD11	44:VI:418:PHE:CE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:256:GLN:O	44:VI:260:VAL:HG12	2.07	0.54
45:VL:42:LEU:HA	45:VL:45:GLU:OE2	2.06	0.54
45:VL:229:VAL:O	45:VL:232:ALA:N	2.40	0.54
44:WA:210:TYR:CE1	44:WA:227:LEU:HD11	2.42	0.54
44:WA:262:TYR:HB3	44:WA:263:PRO:HD2	1.89	0.54
44:WA:317:MET:HA	44:WA:377:MET:HA	1.88	0.54
44:WC:211:ASP:HB3	44:WC:215:ARG:NH2	2.22	0.54
44:WE:406:HIS:CD2	45:WF:261:PRO:HD3	2.42	0.54
45:WF:99:ASN:HA	45:WF:142:GLY:N	2.22	0.54
45:WF:251:ARG:HA	45:WF:254:ALA:HB3	1.89	0.54
45:WF:325:GLU:HG2	45:WF:328:GLU:OE2	2.07	0.54
45:WH:280:GLN:O	45:WH:281:TYR:HD1	1.90	0.54
44:WK:91:GLN:HA	44:WK:121:ARG:NH2	2.22	0.54
44:WK:213:CYS:O	44:WK:218:ASP:N	2.40	0.54
45:WL:2:ARG:HE	45:WL:240:LEU:HD11	1.72	0.54
45:WL:19:LYS:O	45:WL:22:GLU:N	2.40	0.54
45:WL:65:LEU:HD22	45:WL:90:PHE:HE1	1.72	0.54
45:WL:294:PHE:HE2	45:WL:333:VAL:HG11	1.71	0.54
45:WL:377:MET:SD	45:WL:380:ARG:HD2	2.47	0.54
44:WM:9:VAL:CG1	44:WM:139:ASN:HB3	2.35	0.54
44:WM:317:MET:HE1	44:WM:375:VAL:HG13	1.88	0.54
44:WM:319:TYR:HB2	44:WM:354:GLY:O	2.06	0.54
45:WN:118:ASP:HA	45:WN:121:ARG:CZ	2.37	0.54
3:0B:327:THR:OG1	45:LL:209:ASP:OD1	2.26	0.54
9:1H:115:ARG:CZ	45:HL:280:GLN:HG2	2.37	0.54
9:1H:115:ARG:HH22	45:HL:280:GLN:H	1.55	0.54
9:1H:256:GLU:OE2	44:HE:32:PRO:HD3	2.07	0.54
21:1K:212:ARG:HH21	44:GA:371:VAL:HG23	1.71	0.54
27:1W:114:ASN:HD21	45:LF:279:GLN:HG3	1.73	0.54
2:2A:36:ARG:HH12	45:MJ:356:ILE:HG12	1.72	0.54
29:2F:79:CYS:HA	45:HF:332:ASN:ND2	2.22	0.54
30:2G:37:LYS:HE3	45:JJ:77:ARG:NH2	2.21	0.54
24:2O:209:LYS:HG2	44:VI:278:ALA:CB	2.36	0.54
2:3A:61:TYR:OH	45:MN:53:GLU:HB2	2.08	0.54
31:3H:205:GLN:CB	44:AG:82:THR:HG23	2.37	0.54
35:4R:236:LEU:HD12	44:BE:130:THR:HB	1.87	0.54
16:4X:1:MET:HE2	44:LI:241:SER:O	2.06	0.54
37:5A:58:TYR:CD2	45:KB:392:LYS:HE2	2.41	0.54
38:5F:123:ARG:HH11	44:OE:370:LYS:HZ3	1.55	0.54
39:5K:36:TYR:CE1	44:NK:309:HIS:HA	2.42	0.54
35:5R:98:TYR:CZ	35:5R:205:PRO:HD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6Q:69:LEU:O	11:6Q:71:ILE:HG13	2.07	0.54
35:7R:242:ASN:CB	44:BA:57:GLY:HA3	2.34	0.54
43:8R:139:UNK:O	43:8R:143:UNK:HB2	2.06	0.54
44:AC:35:GLN:HE22	44:AC:59:GLY:HA2	1.73	0.54
44:AC:200:VAL:HG13	44:AC:268:MET:HE1	1.90	0.54
44:AE:280:LYS:HG3	44:ME:89:PRO:HG2	1.88	0.54
45:AF:207:LEU:CB	45:AF:225:LEU:HD22	2.37	0.54
45:AF:245:GLN:O	45:AF:246:LEU:HD12	2.07	0.54
44:AG:221:ARG:O	44:AG:221:ARG:HG3	2.06	0.54
44:AG:423:GLU:O	44:AG:427:ALA:N	2.27	0.54
45:AH:2:ARG:HG3	45:AH:240:LEU:HD11	1.88	0.54
45:AH:309:ARG:H	45:AH:372:THR:HG1	1.54	0.54
44:AK:71:GLU:HG3	45:AL:247:ASN:ND2	2.22	0.54
44:AM:275:ILE:HG23	44:AM:368:LEU:HD13	1.88	0.54
44:BA:98:ASP:OD1	44:BA:99:ALA:N	2.41	0.54
45:BB:25:SER:HG	45:BB:51:TYR:HH	1.52	0.54
45:BD:169:VAL:HA	45:BD:202:ILE:O	2.07	0.54
45:BD:186:THR:HA	45:BD:415:MET:CE	2.37	0.54
44:BE:139:ASN:O	44:BE:170:THR:HA	2.07	0.54
45:BF:282:ARG:NH2	45:BF:292:GLN:OE1	2.40	0.54
45:BF:287:PRO:HG3	45:BF:329:GLN:NE2	2.22	0.54
44:BG:22:GLU:HG3	44:BG:83:TYR:OH	2.06	0.54
44:BG:388:PHE:O	44:BG:392:ASP:N	2.38	0.54
45:BJ:90:PHE:HB3	45:BJ:92:PHE:HE2	1.72	0.54
44:BM:185:TYR:CE1	44:BM:398:MET:HB3	2.42	0.54
44:CA:55:GLU:OE1	44:CA:55:GLU:HA	2.06	0.54
44:CA:235:ILE:O	44:CA:238:LEU:N	2.40	0.54
44:CA:316:SER:HB3	44:CA:378:ILE:HB	1.90	0.54
45:CB:9:GLY:HA2	45:CB:14:ASN:OD1	2.08	0.54
44:CE:329:ASN:HB3	45:CF:175:VAL:HG12	1.89	0.54
44:CG:183:GLU:HG2	44:CG:184:PRO:CD	2.37	0.54
45:CJ:187:LEU:HD11	45:CJ:408:PHE:CZ	2.41	0.54
44:CK:4:VAL:CG1	44:CK:133:GLN:HB2	2.37	0.54
45:CL:311:LEU:HD11	45:CL:370:ASN:HB3	1.90	0.54
44:CM:200:VAL:CG2	44:CM:256:GLN:HB3	2.36	0.54
44:DA:323:VAL:CG1	44:DA:355:ILE:HG23	2.37	0.54
45:DB:291:GLN:NE2	45:DB:292:GLN:HB2	2.22	0.54
45:DB:330:MET:SD	45:DB:351:SER:OG	2.65	0.54
45:DB:398:TYR:C	45:DB:403:MET:HB2	2.27	0.54
44:DC:174:SER:CB	44:DC:207:GLU:HB2	2.37	0.54
45:DD:134:GLN:C	45:DD:135:ILE:HD13	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DD:265:PHE:HB2	45:DD:374:ILE:CD1	2.37	0.54
45:DF:22:GLU:HG2	45:DF:81:PHE:CD2	2.38	0.54
45:DF:100:ASN:OD1	45:DF:103:LYS:HB2	2.07	0.54
44:DG:70:LEU:CD1	44:DG:110:ILE:HD12	2.33	0.54
44:DG:131:GLY:O	44:DG:133:GLN:NE2	2.34	0.54
45:DH:133:PHE:O	45:DH:165:GLU:HB2	2.07	0.54
44:DI:320:ARG:NE	44:DI:360:PRO:HG3	2.21	0.54
44:DK:186:ASN:O	44:DK:190:SER:OG	2.19	0.54
44:DK:204:LEU:HD13	44:DK:231:ILE:CD1	2.29	0.54
44:DM:33:ASP:HB2	44:DM:35:GLN:OE1	2.08	0.54
44:DM:243:ARG:HG3	44:DM:244:PHE:CE2	2.42	0.54
44:DM:331:SER:O	44:DM:334:THR:HB	2.07	0.54
45:EB:217:LEU:HD11	45:EB:220:PRO:HG3	1.90	0.54
44:EI:54:SER:HB2	44:EI:64:ARG:NH2	2.21	0.54
44:EI:288:VAL:HA	44:EI:291:ILE:HG12	1.89	0.54
45:EJ:27:GLU:OE2	45:EJ:241:ARG:NH1	2.39	0.54
45:EJ:310:TYR:HB2	45:EJ:341:PHE:CD2	2.43	0.54
44:EK:11:GLN:HB3	46:EK:501:GTP:O2B	2.07	0.54
44:EK:51:THR:HG22	44:EK:52:PHE:CD1	2.42	0.54
44:EK:402:ARG:HB2	44:EK:405:VAL:HG21	1.89	0.54
44:EK:413:MET:HE2	44:EK:413:MET:HA	1.89	0.54
44:FC:101:ASN:HD21	45:FD:252:LYS:HG3	1.72	0.54
44:FC:265:ILE:O	44:FC:265:ILE:HG23	2.07	0.54
44:FC:270:SER:O	44:FC:302:MET:HE2	2.07	0.54
44:FC:439:THR:HG21	45:FF:390:ARG:CD	2.37	0.54
45:FH:173:PRO:HG2	45:FH:380:ARG:HD3	1.88	0.54
45:FH:182:PRO:HG2	45:FH:388:MET:SD	2.46	0.54
45:FH:242:PHE:CG	45:FH:356:ILE:HG13	2.42	0.54
44:FI:192:HIS:ND1	44:FI:424:ASP:OD2	2.40	0.54
44:FI:245:ASP:OD1	44:FI:246:GLY:N	2.40	0.54
44:FI:258:ASN:C	44:FI:259:LEU:HD22	2.27	0.54
44:FI:316:SER:CB	44:FI:352:LYS:HB3	2.38	0.54
45:FJ:2:ARG:NH2	45:FJ:240:LEU:HG	2.23	0.54
45:FJ:334:GLN:HG3	45:FJ:341:PHE:CD2	2.41	0.54
44:FK:184:PRO:O	44:FK:188:ILE:HG12	2.07	0.54
44:FK:225:THR:CB	44:FK:229:ARG:HH12	2.17	0.54
44:FM:79:ARG:HG3	44:FM:92:LEU:HD22	1.88	0.54
44:FM:171:ILE:HG12	44:FM:204:LEU:CB	2.36	0.54
45:FN:387:ALA:O	45:FN:390:ARG:HG2	2.06	0.54
44:GA:156:ARG:HA	44:GA:159:VAL:CG1	2.38	0.54
44:GA:179:THR:O	45:GB:350:LYS:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:295:ASP:OD2	45:GB:297:LYS:HE2	2.06	0.54
45:GB:395:LEU:O	45:GB:399:THR:HG23	2.07	0.54
44:GC:311:LYS:HA	44:GC:342:GLN:NE2	2.22	0.54
45:GF:115:SER:O	45:GF:118:ASP:CB	2.56	0.54
45:GH:49:VAL:HG11	45:GH:241:ARG:HG2	1.88	0.54
45:GJ:65:LEU:HD11	45:GJ:85:PHE:CE2	2.43	0.54
45:GN:105:HIS:CE1	45:GN:150:LEU:HD12	2.42	0.54
45:GN:311:LEU:CD2	45:GN:372:THR:HG23	2.37	0.54
44:HA:93:ILE:HD12	44:HA:93:ILE:H	1.72	0.54
45:HB:319:GLY:HA2	45:HB:357:PRO:HB3	1.89	0.54
44:HC:115:VAL:HG23	44:HC:153:LEU:HD21	1.88	0.54
44:HE:259:LEU:CD2	44:HE:316:SER:HB2	2.37	0.54
44:HE:296:PHE:CE1	44:HE:377:MET:HG3	2.38	0.54
45:HJ:40:SER:OG	45:HJ:43:GLN:HG3	2.07	0.54
44:HK:54:SER:HB3	44:HK:64:ARG:CZ	2.36	0.54
44:HK:56:THR:HA	44:IK:285:GLN:HB3	1.88	0.54
44:HM:210:TYR:CE1	45:HN:324:LYS:HB2	2.42	0.54
44:HM:276:ILE:HD11	44:HM:280:LYS:CG	2.38	0.54
45:HN:113:ILE:HD13	45:HN:154:LYS:HE3	1.89	0.54
45:HN:114:ASP:OD1	45:HN:115:SER:N	2.40	0.54
45:IB:190:HIS:HB2	45:IB:411:ALA:HB1	1.89	0.54
44:IC:90:GLU:HG3	44:IC:121:ARG:CZ	2.36	0.54
44:IC:90:GLU:HG3	44:IC:121:ARG:NH2	2.22	0.54
44:IC:179:THR:HG21	46:ID:501:GTP:C3'	2.37	0.54
44:IC:221:ARG:HH22	45:ID:326:VAL:HG23	1.70	0.54
44:IC:275:ILE:HG23	44:IC:368:LEU:HD11	1.89	0.54
44:IC:414:GLU:HB2	44:IC:417:GLU:CG	2.30	0.54
45:ID:49:VAL:HG22	45:ID:50:TYR:HD2	1.73	0.54
45:ID:226:ASN:HD21	48:ID:502:GDP:HN1	1.56	0.54
44:IE:182:VAL:O	44:IE:182:VAL:HG22	2.07	0.54
44:IE:288:VAL:HG11	44:IE:327:ASP:CB	2.37	0.54
44:IG:265:ILE:HD13	44:IG:432:TYR:HE1	1.71	0.54
45:IH:68:LEU:HD21	45:IH:147:MET:HE1	1.88	0.54
44:II:179:THR:HG21	46:II:501:GTP:H3'	1.88	0.54
45:IJ:383:GLU:O	45:IJ:386:THR:HG22	2.06	0.54
44:IM:53:PHE:CD1	44:IM:63:PRO:HA	2.43	0.54
45:IN:143:THR:HG22	48:IN:501:GDP:O2B	2.06	0.54
45:IN:245:GLN:N	45:IN:353:ILE:O	2.40	0.54
44:JA:166:LYS:NZ	44:JA:197:HIS:O	2.33	0.54
45:JB:2:ARG:CZ	45:JB:240:LEU:HG	2.37	0.54
44:JC:105:ARG:O	44:JC:110:ILE:HG12	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:150:GLY:O	44:JC:154:LEU:HD23	2.06	0.54
45:JD:173:PRO:HG3	45:JD:380:ARG:CD	2.37	0.54
45:JF:36:TYR:CE1	45:JF:44:LEU:HD21	2.42	0.54
44:JG:66:VAL:HG11	44:JG:122:ILE:HD11	1.88	0.54
44:JG:183:GLU:N	44:JG:184:PRO:HD2	2.23	0.54
45:JH:73:MET:O	45:JH:76:VAL:HG12	2.08	0.54
45:JH:101:TRP:NE1	45:JH:146:GLY:HA2	2.21	0.54
45:JH:151:LEU:O	45:JH:151:LEU:HD23	2.07	0.54
45:JH:275:SER:HG	45:JH:278:SER:HG	1.53	0.54
44:JI:21:TRP:HZ2	44:JI:65:ALA:HB2	1.69	0.54
44:JI:260:VAL:CG2	45:JL:397:TRP:HZ2	2.20	0.54
44:JI:297:GLU:OE2	44:JI:299:ALA:HB3	2.07	0.54
45:JJ:267:MET:O	45:JJ:369:GLY:N	2.40	0.54
45:JJ:378:PHE:CA	45:JJ:381:VAL:HG12	2.31	0.54
45:JL:158:GLU:HG2	45:JL:159:TYR:CD1	2.42	0.54
45:KB:238:CYS:SG	45:KB:239:CYS:N	2.80	0.54
44:KC:224:TYR:CE2	45:KD:246:LEU:HD11	2.37	0.54
44:KE:172:TYR:HB3	44:KE:173:PRO:CD	2.37	0.54
44:KE:300:ASN:O	44:KE:302:MET:HE2	2.07	0.54
44:KE:326:LYS:HD3	45:KH:212:PHE:HZ	1.73	0.54
45:KF:152:ILE:HG23	45:KF:164:MET:CE	2.29	0.54
44:KG:306:ASP:HB3	44:KG:309:HIS:HD2	1.71	0.54
45:KH:186:THR:HG21	45:KH:385:PHE:CD1	2.43	0.54
45:KL:47:ILE:HD13	45:KL:59:TYR:CE2	2.42	0.54
44:KM:184:PRO:O	44:KM:188:ILE:HG12	2.07	0.54
45:KN:265:PHE:HB3	45:KN:374:ILE:CD1	2.37	0.54
44:LA:121:ARG:CZ	44:LA:124:LYS:HD2	2.37	0.54
44:LA:260:VAL:CG2	45:LD:397:TRP:HE1	2.14	0.54
44:LC:417:GLU:O	44:LC:420:GLU:HG2	2.07	0.54
45:LF:117:LEU:HA	45:LF:120:VAL:HG12	1.89	0.54
45:LF:139:LEU:HD23	45:LF:188:SER:OG	2.07	0.54
44:LG:5:ILE:HD12	44:LG:135:PHE:CE1	2.40	0.54
44:LG:50:ASN:HA	44:LG:53:PHE:O	2.06	0.54
44:LI:207:GLU:HA	44:LI:210:TYR:CD2	2.42	0.54
44:LI:250:VAL:HB	44:LI:352:LYS:NZ	2.22	0.54
45:LJ:330:MET:O	45:LJ:333:VAL:HG12	2.07	0.54
45:LJ:412:GLU:O	45:LJ:416:ASN:HB2	2.07	0.54
44:LM:222:PRO:O	45:LN:322:SER:HB2	2.07	0.54
45:MB:53:GLU:OE1	45:MB:53:GLU:HA	2.06	0.54
44:MC:217:LEU:HD11	44:MC:368:LEU:HD22	1.88	0.54
44:ME:315:CYS:O	44:ME:351:PHE:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:166:LYS:C	44:MG:167:LEU:HD12	2.27	0.54
44:MI:70:LEU:HD13	44:MI:110:ILE:CD1	2.35	0.54
44:MI:155:GLU:HG2	44:MI:197:HIS:NE2	2.22	0.54
44:MI:189:LEU:HD11	44:MI:418:PHE:CE1	2.39	0.54
45:MJ:143:THR:O	45:MJ:147:MET:N	2.35	0.54
44:MM:265:ILE:HG12	44:MM:432:TYR:HE1	1.72	0.54
45:MN:33:THR:OG1	45:MN:35:THR:HG22	2.07	0.54
44:NA:326:LYS:CD	45:ND:220:PRO:HD2	2.37	0.54
45:NB:192:LEU:HG	45:NB:196:ALA:HB2	1.88	0.54
44:NC:330:ALA:O	44:NC:333:ALA:HB3	2.07	0.54
45:ND:40:SER:O	45:ND:43:GLN:HG3	2.07	0.54
45:ND:296:ALA:CB	45:ND:305:PRO:HG2	2.37	0.54
44:NE:261:PRO:CD	44:NE:262:TYR:H	2.06	0.54
44:NG:175:PRO:HB3	44:NG:390:ARG:CD	2.36	0.54
44:NG:247:ALA:HB1	45:NJ:222:TYR:HD2	1.72	0.54
46:NI:501:GTP:O1G	45:NJ:252:LYS:NZ	2.40	0.54
45:NJ:260:PHE:HB3	45:NJ:261:PRO:CD	2.31	0.54
45:NJ:287:PRO:HA	45:NJ:329:GLN:NE2	2.22	0.54
44:NK:332:ILE:HG22	44:NK:336:LYS:HD2	1.89	0.54
45:NL:19:LYS:HD2	45:NL:22:GLU:OE1	2.07	0.54
45:NL:296:ALA:HB1	45:NL:304:ASP:OD1	2.06	0.54
44:NM:265:ILE:HD11	44:NM:435:VAL:HG21	1.89	0.54
45:NN:130:LEU:CD2	45:NN:162:ARG:HG2	2.37	0.54
45:NN:238:CYS:HB2	45:NN:318:ARG:NE	2.21	0.54
45:OB:165:GLU:OE1	45:OB:165:GLU:N	2.40	0.54
45:OB:290:THR:HG21	45:OB:329:GLN:OE1	2.07	0.54
44:OC:167:LEU:HD23	44:OC:200:VAL:HG21	1.89	0.54
44:OC:320:ARG:NH2	44:OC:360:PRO:HA	2.22	0.54
45:OD:139:LEU:CD2	45:OD:145:SER:HA	2.35	0.54
44:OE:377:MET:O	44:OE:378:ILE:HD13	2.06	0.54
45:OF:207:LEU:HA	45:OF:210:ILE:HG22	1.87	0.54
45:OH:136:THR:HA	45:OH:167:PHE:O	2.06	0.54
45:OH:242:PHE:CD2	45:OH:356:ILE:HB	2.42	0.54
44:OI:224:TYR:CE2	45:OJ:323:THR:HG21	2.41	0.54
44:OK:263:PRO:HD3	45:ON:396:HIS:CG	2.42	0.54
44:OK:269:LEU:H	44:OK:269:LEU:HD23	1.72	0.54
45:OL:334:GLN:OE1	45:OL:347:ASN:HA	2.07	0.54
45:ON:293:MET:CG	45:ON:365:VAL:HG21	2.37	0.54
45:ON:313:ALA:HB3	45:ON:349:ILE:HG13	1.88	0.54
44:PA:88:HIS:ND1	44:PA:90:GLU:HG2	2.22	0.54
44:PA:140:SER:HA	44:PA:171:ILE:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:16:VAL:HG11	44:PC:138:PHE:CD2	2.42	0.54
44:PE:297:GLU:HB2	44:PE:300:ASN:HD22	1.71	0.54
45:PF:187:LEU:HD11	45:PF:408:PHE:CZ	2.42	0.54
45:PF:187:LEU:HD21	45:PF:408:PHE:CE1	2.42	0.54
44:PG:60:LYS:HD3	44:QG:283:HIS:CD2	2.41	0.54
45:PJ:245:GLN:C	45:PJ:246:LEU:HD12	2.28	0.54
44:PK:51:THR:HG21	44:PK:243:ARG:HB3	1.88	0.54
45:PL:19:LYS:HG3	45:PL:230:SER:OG	2.07	0.54
44:PM:103:PHE:CD1	44:PM:148:GLY:HA2	2.41	0.54
44:QA:3:GLU:O	44:QA:132:LEU:HA	2.07	0.54
44:QA:101:ASN:ND2	44:QA:142:GLY:O	2.36	0.54
44:QA:236:SER:HA	44:QA:239:THR:OG1	2.08	0.54
45:QB:130:LEU:CB	45:QB:162:ARG:HD2	2.34	0.54
45:QB:375:GLN:NE2	45:QB:419:VAL:HA	2.17	0.54
44:QC:275:ILE:HG23	44:QC:368:LEU:CD1	2.28	0.54
45:QD:139:LEU:CD1	45:QD:168:SER:HB3	2.36	0.54
45:QD:244:GLY:HA2	45:QD:355:ASP:OD2	2.08	0.54
45:QF:347:ASN:O	44:QG:181:VAL:HA	2.07	0.54
45:QF:370:ASN:O	45:QF:370:ASN:OD1	2.26	0.54
44:QI:104:ALA:CB	44:QI:411:GLU:HB2	2.36	0.54
44:QI:401:LYS:O	44:QI:402:ARG:HG2	2.07	0.54
44:QI:420:GLU:HA	44:QI:423:GLU:CG	2.34	0.54
45:QJ:319:GLY:HA3	45:QJ:357:PRO:HG3	1.89	0.54
44:QK:115:VAL:HG23	44:QK:153:LEU:CD2	2.37	0.54
44:QK:150:GLY:HA2	44:QK:153:LEU:HB2	1.89	0.54
44:QM:114:ILE:O	44:QM:117:LEU:N	2.40	0.54
44:QM:252:ILE:HA	44:QM:255:PHE:CE2	2.43	0.54
45:QN:235:GLY:O	45:QN:316:LEU:HD22	2.06	0.54
44:RA:140:SER:HB2	46:RA:501:GTP:O4'	2.07	0.54
45:RB:318:ARG:HA	45:RB:354:CYS:SG	2.47	0.54
44:RC:76:ASP:OD1	44:RC:79:ARG:NH2	2.40	0.54
44:RC:333:ALA:HA	44:RC:336:LYS:HG2	1.89	0.54
45:RD:31:ASP:HB3	45:RD:32:PRO:CD	2.37	0.54
45:RD:222:TYR:O	45:RD:226:ASN:N	2.37	0.54
44:RE:11:GLN:HG3	44:RE:74:VAL:CG1	2.35	0.54
44:RE:119:LEU:HD21	44:RE:156:ARG:HD2	1.89	0.54
44:RG:236:SER:HA	44:RG:239:THR:CG2	2.37	0.54
45:RH:86:ARG:HH11	45:RH:89:ASN:ND2	2.05	0.54
44:RI:269:LEU:HD12	44:RI:301:MET:SD	2.46	0.54
45:RJ:256:ASN:C	45:RJ:257:LEU:HD12	2.26	0.54
44:RK:169:PHE:HZ	44:RK:238:LEU:CD1	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:206:ASN:HA	44:RK:209:ILE:CD1	2.29	0.54
44:RK:295:ALA:HA	44:RK:377:MET:CE	2.37	0.54
45:RL:2:ARG:O	45:RL:131:GLN:HB2	2.06	0.54
45:RL:4:ILE:CG2	45:RL:131:GLN:HB3	2.37	0.54
45:RL:21:TRP:CH2	45:RL:61:PRO:HB3	2.42	0.54
45:RL:324:LYS:CD	44:RM:222:PRO:HG2	2.36	0.54
44:RM:137:VAL:O	44:RM:168:GLY:HA2	2.07	0.54
44:RM:189:LEU:HD11	44:RM:418:PHE:CE1	2.42	0.54
44:RM:315:CYS:HB3	44:RM:350:GLY:O	2.07	0.54
45:RN:87:PRO:HA	45:RN:90:PHE:HD2	1.72	0.54
45:RN:404:ASP:OD1	45:RN:407:GLU:HG3	2.07	0.54
44:SA:313:MET:CG	44:SA:382:THR:HG23	2.37	0.54
45:SB:193:VAL:HG23	45:SB:264:HIS:CE1	2.41	0.54
45:SB:389:PHE:O	45:SB:392:LYS:HD2	2.08	0.54
45:SD:72:THR:HG23	45:SD:73:MET:N	2.23	0.54
44:SE:276:ILE:HD11	44:SE:371:VAL:HG11	1.88	0.54
45:SF:268:ILE:O	45:SF:300:MET:HB2	2.08	0.54
45:SH:7:ILE:O	45:SH:135:ILE:HA	2.07	0.54
45:SH:213:ARG:NH2	45:SH:297:LYS:HD2	2.21	0.54
45:SJ:49:VAL:HG21	45:SJ:240:LEU:CD2	2.38	0.54
44:SK:97:GLU:HG3	44:SK:105:ARG:HH12	1.71	0.54
45:SL:7:ILE:O	45:SL:135:ILE:HA	2.08	0.54
45:SN:293:MET:SD	45:SN:367:PHE:HB2	2.48	0.54
44:TA:280:LYS:HD3	44:TA:283:HIS:ND1	2.22	0.54
45:TD:86:ARG:HE	45:TD:87:PRO:CD	2.11	0.54
45:TD:168:SER:O	45:TD:201:VAL:HA	2.07	0.54
44:TE:137:VAL:HG12	44:TE:167:LEU:O	2.07	0.54
44:TE:346:TRP:CE3	44:TE:347:CYS:HB2	2.42	0.54
44:TG:205:ASP:CG	44:TG:304:LYS:H	2.09	0.54
44:TG:319:TYR:HE2	44:TG:328:VAL:HG22	1.71	0.54
45:TH:319:GLY:O	45:TH:321:MET:HE3	2.06	0.54
45:TH:376:GLU:HG3	45:TH:380:ARG:NH2	2.21	0.54
44:TI:10:GLY:O	44:TI:14:ILE:HG13	2.07	0.54
44:TI:91:GLN:HB3	44:TI:121:ARG:HD2	1.88	0.54
44:TI:201:ALA:HB3	44:TI:267:PHE:CD2	2.42	0.54
45:TJ:193:VAL:HG21	45:TJ:418:LEU:HD22	1.89	0.54
44:TK:75:ILE:O	44:TK:78:VAL:HB	2.08	0.54
44:TK:105:ARG:HA	44:TK:109:THR:OG1	2.08	0.54
45:TL:246:LEU:HD21	45:TL:252:LYS:HE3	1.89	0.54
45:TL:259:PRO:HG2	45:TL:311:LEU:HD12	1.89	0.54
45:TN:12:CYS:HA	45:TN:15:GLN:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:101:TRP:HB3	45:TN:398:TYR:HE1	1.71	0.54
44:UA:242:LEU:HD11	44:UA:252:ILE:CD1	2.38	0.54
44:UA:289:ALA:C	44:UA:292:THR:HG22	2.28	0.54
45:UB:55:THR:HG23	45:VB:283:ALA:HA	1.88	0.54
45:UD:334:GLN:HG3	45:UD:341:PHE:CD2	2.32	0.54
44:UE:248:LEU:HD23	44:UE:353:VAL:HG13	1.89	0.54
45:UF:47:ILE:CG1	45:UF:51:TYR:HB2	2.36	0.54
45:UH:337:ASN:HB3	45:UH:340:TYR:CD2	2.42	0.54
45:UJ:1:MET:HE2	44:UK:96:LYS:CB	2.37	0.54
44:UK:210:TYR:CE1	44:UK:227:LEU:HD21	2.43	0.54
44:UM:142:GLY:HA2	44:UM:186:ASN:OD1	2.06	0.54
45:UN:70:PRO:HA	45:UN:73:MET:HB2	1.89	0.54
45:VB:316:LEU:HB2	45:VB:366:THR:HG22	1.88	0.54
45:VB:372:THR:HA	45:VB:422:TYR:CE2	2.41	0.54
45:VD:303:ALA:HB1	45:VD:373:ALA:O	2.07	0.54
44:VE:434:GLU:O	44:VE:437:ILE:HG12	2.07	0.54
45:VF:6:HIS:ND1	45:VF:134:GLN:HG3	2.22	0.54
45:VF:102:ALA:HB3	45:VF:401:GLU:HB2	1.89	0.54
44:VG:141:VAL:HG21	44:VG:170:THR:CG2	2.35	0.54
45:VH:130:LEU:HD11	45:VH:133:PHE:CE1	2.38	0.54
45:VJ:248:SER:HA	45:VJ:252:LYS:HD2	1.89	0.54
44:VK:135:PHE:CD2	44:VK:166:LYS:HD3	2.42	0.54
45:VN:390:ARG:HG3	45:VN:391:ARG:N	2.22	0.54
45:WB:180:VAL:HG21	45:WB:398:TYR:CE2	2.43	0.54
45:WB:321:MET:SD	45:WB:322:SER:N	2.79	0.54
45:WF:47:ILE:HD13	45:WF:59:TYR:CZ	2.42	0.54
45:WF:143:THR:HG23	45:WF:144:GLY:H	1.71	0.54
44:WI:182:VAL:O	44:WI:182:VAL:HG12	2.07	0.54
44:WK:329:ASN:OD1	45:WN:175:VAL:HB	2.06	0.54
44:WM:212:ILE:CD1	44:WM:215:ARG:HH22	2.21	0.54
45:WN:25:SER:O	45:WN:29:GLY:N	2.40	0.54
45:WN:200:MET:HE1	45:WN:268:ILE:HG12	1.89	0.54
3:0B:5:CYS:HB3	45:JH:218:THR:CG2	2.36	0.54
7:0F:105:ASN:HD21	44:EE:33:ASP:HB3	1.69	0.54
18:1F:132:GLU:OE2	44:GI:26:LEU:HD13	2.06	0.54
9:1H:275:TYR:OH	45:HF:362:LYS:N	2.40	0.54
25:2P:407:GLN:HB3	45:SL:56:GLY:HA2	1.87	0.54
26:2R:463:PHE:O	45:EH:78:ALA:HA	2.05	0.54
15:2V:98:LEU:HD21	44:LE:405:VAL:CG2	2.33	0.54
37:5D:107:TYR:CB	44:NM:279:GLU:HG2	2.37	0.54
37:5D:117:PRO:HD2	44:NM:323:VAL:CG1	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5G:185:LYS:O	38:5G:189:ILE:HG23	2.07	0.54
38:5G:196:GLU:HG2	38:5G:196:GLU:O	2.07	0.54
38:5H:88:HIS:HA	38:5H:93:PHE:CZ	2.42	0.54
39:5K:45:LYS:HE2	44:JK:430:LYS:NZ	2.22	0.54
11:5Q:61:ALA:HB2	11:5Q:154:VAL:O	2.07	0.54
41:6G:177:ARG:HB2	41:6G:179:ILE:HD11	1.88	0.54
41:6G:187:ILE:HG23	44:UG:120:ASP:OD2	2.07	0.54
35:6R:300:PHE:HE2	45:CN:77:ARG:HD2	1.56	0.54
35:6R:301:PRO:CD	45:CN:74:ASP:OD1	2.56	0.54
35:6R:417:TYR:CE2	44:EM:372:MET:HE1	2.43	0.54
35:7R:12:LEU:HD11	45:LB:360:GLY:HA3	1.88	0.54
35:7R:173:LEU:HD22	35:7R:178:PHE:HE2	1.72	0.54
35:7R:207:ASP:H	35:7R:210:GLU:CG	2.21	0.54
42:8N:217:UNK:O	42:8N:221:UNK:N	2.40	0.54
42:8N:241:UNK:O	42:8N:244:UNK:N	2.40	0.54
43:8R:234:UNK:CE1	44:PE:279:GLU:HA	2.37	0.54
44:AA:21:TRP:HZ2	44:AA:65:ALA:HB2	1.72	0.54
44:AA:74:VAL:CG1	44:AA:75:ILE:HD12	2.37	0.54
44:AA:260:VAL:O	44:AA:260:VAL:HG23	2.07	0.54
45:AB:148:GLY:O	45:AB:152:ILE:HG12	2.07	0.54
44:AC:407:TRP:HH2	45:AD:254:ALA:CB	2.20	0.54
44:AE:63:PRO:HG3	44:AE:87:PHE:CD1	2.43	0.54
44:AE:229:ARG:HE	44:AE:363:VAL:HG11	1.73	0.54
45:AH:163:ILE:HG13	45:AH:164:MET:H	1.72	0.54
45:AJ:167:PHE:CZ	45:AJ:233:MET:HG3	2.42	0.54
44:AK:22:GLU:HG3	44:AK:83:TYR:CE2	2.43	0.54
44:AK:288:VAL:HG11	44:AK:327:ASP:CG	2.27	0.54
45:AL:8:GLN:HE21	45:AL:14:ASN:HA	1.73	0.54
45:AL:20:PHE:O	45:AL:23:VAL:HG12	2.07	0.54
45:AL:135:ILE:O	45:AL:166:THR:HA	2.06	0.54
44:AM:425:LEU:HD12	44:AM:426:ALA:CA	2.38	0.54
45:AN:1:MET:CE	45:AN:129:CYS:HB3	2.37	0.54
44:BA:183:GLU:N	44:BA:184:PRO:HD2	2.21	0.54
44:BC:107:HIS:NE2	44:BC:151:SER:OG	2.40	0.54
44:BC:151:SER:O	44:BC:155:GLU:HG3	2.07	0.54
45:BD:257:LEU:HA	45:BD:312:THR:HG21	1.88	0.54
44:BE:221:ARG:O	44:BE:221:ARG:HG3	2.08	0.54
45:BF:46:ARG:HG3	45:BF:241:ARG:HA	1.89	0.54
45:BF:282:ARG:HG2	45:BF:283:ALA:N	2.21	0.54
45:BH:163:ILE:HD11	45:BH:250:LEU:HD13	1.89	0.54
44:BI:98:ASP:HB3	45:BJ:249:ASP:OD2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:192:LEU:CD1	45:BJ:196:ALA:HB2	2.36	0.54
44:BK:174:SER:HB2	44:BK:177:VAL:O	2.07	0.54
45:BL:20:PHE:O	45:BL:24:ILE:HG12	2.08	0.54
45:BL:99:ASN:HA	45:BL:142:GLY:HA3	1.89	0.54
45:BL:200:MET:CE	45:BL:268:ILE:HG21	2.36	0.54
44:BM:403:ALA:O	44:BM:404:PHE:HB2	2.06	0.54
45:BN:24:ILE:CA	45:BN:27:GLU:HG2	2.33	0.54
44:CA:1:MET:HE3	45:CB:94:GLN:HA	1.87	0.54
44:CA:258:ASN:HA	45:CB:394:PHE:HE2	1.72	0.54
45:CB:181:GLU:N	45:CB:182:PRO:HD2	2.22	0.54
44:CC:31:GLN:NE2	44:CC:35:GLN:H	2.05	0.54
44:CC:223:THR:HG22	44:CC:224:TYR:N	2.22	0.54
45:CD:65:LEU:HD11	45:CD:85:PHE:HD2	1.71	0.54
45:CL:202:ILE:HG12	45:CL:300:MET:CG	2.38	0.54
44:CM:99:ALA:HB3	44:CM:145:THR:HG22	1.89	0.54
44:CM:320:ARG:NH2	44:CM:360:PRO:HA	2.22	0.54
44:DA:11:GLN:HB3	46:DA:501:GTP:PA	2.48	0.54
44:DA:302:MET:CE	44:DA:302:MET:HA	2.37	0.54
44:DA:350:GLY:HA2	45:DB:179:VAL:HG11	1.88	0.54
45:DB:136:THR:HG22	45:DB:167:PHE:CB	2.35	0.54
45:DB:245:GLN:NE2	45:DB:355:ASP:OD1	2.40	0.54
45:DB:246:LEU:HD11	44:DC:224:TYR:CE2	2.36	0.54
45:DB:318:ARG:HB2	45:DB:364:ALA:HB3	1.88	0.54
45:DD:272:PRO:HD3	45:DD:289:LEU:HD22	1.90	0.54
44:DE:135:PHE:HB2	44:DE:166:LYS:HG2	1.89	0.54
44:DE:261:PRO:HG2	44:DE:313:MET:SD	2.47	0.54
45:DH:150:LEU:HD23	45:DH:154:LYS:HG3	1.89	0.54
44:DI:54:SER:HB3	44:DI:64:ARG:NH2	2.22	0.54
45:DJ:165:GLU:OE2	45:DJ:250:LEU:HD22	2.07	0.54
44:DK:217:LEU:HD13	44:DK:367:ASP:CB	2.37	0.54
44:DK:334:THR:O	44:DK:337:THR:HB	2.08	0.54
44:DM:413:MET:HG3	44:DM:417:GLU:HG3	1.89	0.54
45:EB:54:ALA:HB1	45:FB:283:ALA:HB2	1.88	0.54
45:EB:246:LEU:HD11	44:EC:224:TYR:HE2	1.70	0.54
45:ED:66:MET:HE2	45:ED:112:LEU:HD21	1.90	0.54
44:EE:137:VAL:O	44:EE:168:GLY:HA2	2.06	0.54
44:EE:187:SER:O	44:EE:190:SER:OG	2.23	0.54
45:EF:99:ASN:CA	45:EF:142:GLY:HA3	2.37	0.54
45:EF:135:ILE:O	45:EF:167:PHE:N	2.31	0.54
45:EF:176:SER:HB2	45:EF:181:GLU:OE1	2.06	0.54
44:EG:168:GLY:O	44:EG:201:ALA:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:188:ILE:O	44:EG:191:THR:HB	2.07	0.54
44:EI:391:LEU:O	44:EI:394:LYS:N	2.41	0.54
44:EK:1:MET:O	44:EK:1:MET:HG3	2.07	0.54
44:EK:26:LEU:CD2	44:EK:364:PRO:HD3	2.37	0.54
44:EK:280:LYS:HE3	44:EK:283:HIS:ND1	2.22	0.54
44:EK:291:ILE:HG13	44:EK:292:THR:N	2.22	0.54
45:EL:313:ALA:CB	45:EL:349:ILE:HG12	2.36	0.54
45:EL:395:LEU:O	45:EL:399:THR:HG23	2.07	0.54
44:EM:346:TRP:CZ3	45:EN:388:MET:HE1	2.43	0.54
45:FB:36:TYR:CE1	45:FB:44:LEU:HG	2.42	0.54
45:FB:102:ALA:O	45:FB:106:TYR:HB2	2.08	0.54
45:FB:313:ALA:HB3	45:FB:349:ILE:HD12	1.88	0.54
44:FC:230:LEU:HD11	44:FC:275:ILE:CG2	2.37	0.54
44:FC:316:SER:CB	44:FC:352:LYS:HB3	2.37	0.54
44:FC:401:LYS:HA	44:FC:401:LYS:HE2	1.90	0.54
45:FD:348:ASN:OD1	45:FD:349:ILE:HD12	2.07	0.54
44:FE:200:VAL:HG21	44:FE:256:GLN:HB3	1.87	0.54
45:FF:325:GLU:HG2	45:FF:328:GLU:OE2	2.07	0.54
44:FG:137:VAL:CG2	44:FG:168:GLY:HA2	2.37	0.54
44:FG:322:ASP:OD1	44:FG:373:ARG:HG2	2.07	0.54
44:FI:31:GLN:CG	44:FI:32:PRO:HD2	2.37	0.54
45:FJ:7:ILE:HD11	45:FJ:120:VAL:HG23	1.89	0.54
45:FJ:187:LEU:HD21	45:FJ:408:PHE:HE1	1.72	0.54
45:FJ:317:PHE:CE2	45:FJ:326:VAL:HG23	2.42	0.54
44:FK:14:ILE:HD11	44:FK:69:ASP:HB2	1.89	0.54
44:FM:1:MET:O	44:FM:131:GLY:HA3	2.07	0.54
44:FM:319:TYR:HB3	44:FM:323:VAL:HG11	1.88	0.54
44:GA:7:ILE:HD11	44:GA:135:PHE:CD2	2.32	0.54
45:GB:81:PHE:O	45:GB:84:LEU:HD13	2.08	0.54
45:GD:103:LYS:N	45:GD:401:GLU:OE1	2.41	0.54
45:GD:134:GLN:HA	45:GD:165:GLU:O	2.08	0.54
45:GF:36:TYR:CE2	45:GF:44:LEU:HD11	2.43	0.54
45:GH:42:LEU:HG	45:GH:45:GLU:OE2	2.06	0.54
45:GJ:286:VAL:CG1	45:GJ:321:MET:HE3	2.32	0.54
45:GL:178:THR:CG2	45:GL:180:VAL:HG12	2.36	0.54
44:GM:23:LEU:HD21	44:GM:236:SER:CB	2.35	0.54
45:GN:268:ILE:HG22	45:GN:368:VAL:CG2	2.35	0.54
45:GN:273:LEU:H	45:GN:292:GLN:NE2	2.06	0.54
45:GN:318:ARG:HH11	45:GN:358:PRO:CG	2.20	0.54
44:HA:155:GLU:HG2	44:HA:197:HIS:CD2	2.42	0.54
44:HA:348:PRO:HD2	45:HD:388:MET:CE	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:260:VAL:HG13	44:HC:260:VAL:O	2.06	0.54
45:HD:358:PRO:HD2	45:HD:364:ALA:HB2	1.88	0.54
45:HF:36:TYR:CE2	45:HF:44:LEU:HG	2.42	0.54
45:HF:399:THR:HA	45:HF:403:MET:O	2.08	0.54
44:HG:231:ILE:O	44:HG:235:ILE:HG12	2.07	0.54
45:HH:211:CYS:O	45:HH:215:LEU:HB2	2.07	0.54
45:HH:285:THR:O	45:HH:289:LEU:HG	2.07	0.54
44:HI:3:GLU:OE2	44:HI:130:THR:N	2.31	0.54
45:HJ:4:ILE:HD11	45:HJ:50:TYR:OH	2.06	0.54
44:HK:14:ILE:HG22	44:HK:18:ASN:ND2	2.22	0.54
44:HM:88:HIS:ND1	44:HM:90:GLU:HG2	2.22	0.54
44:HM:124:LYS:O	44:HM:127:ASP:HB2	2.06	0.54
44:HM:404:PHE:HE1	45:HN:259:PRO:HA	1.71	0.54
44:HM:417:GLU:O	44:HM:420:GLU:HG2	2.07	0.54
45:HN:60:VAL:HG23	45:HN:84:LEU:O	2.07	0.54
45:HN:385:PHE:CD1	45:HN:386:THR:HA	2.43	0.54
45:IB:257:LEU:HD12	45:IB:258:ILE:CB	2.33	0.54
45:IB:334:GLN:NE2	45:IB:348:ASN:OD1	2.39	0.54
44:IC:11:GLN:HE21	44:IC:15:GLN:NE2	2.05	0.54
44:IC:311:LYS:CD	44:IC:342:GLN:HG3	2.37	0.54
45:ID:310:TYR:CE1	45:ID:371:SER:HB3	2.43	0.54
44:IE:243:ARG:C	44:IE:244:PHE:HD1	2.10	0.54
45:IF:248:SER:OG	45:IF:252:LYS:HD2	2.07	0.54
44:IG:183:GLU:HG2	44:IG:184:PRO:CD	2.38	0.54
44:IG:231:ILE:HD11	44:IG:302:MET:CE	2.33	0.54
45:IH:193:VAL:HG21	45:IH:418:LEU:HD22	1.89	0.54
45:IH:382:ALA:HB2	45:IH:415:MET:CE	2.37	0.54
44:II:330:ALA:O	44:II:334:THR:HG23	2.07	0.54
45:IJ:30:ILE:HG13	45:IJ:30:ILE:O	2.07	0.54
45:IJ:238:CYS:SG	45:IJ:318:ARG:NH1	2.81	0.54
45:IL:37:HIS:ND1	45:IL:37:HIS:O	2.40	0.54
45:IL:88:ASP:HA	45:IL:116:VAL:HG22	1.89	0.54
45:IN:310:TYR:HA	45:IN:371:SER:HA	1.89	0.54
44:JA:69:ASP:HB3	44:JA:75:ILE:HD11	1.88	0.54
44:JA:258:ASN:C	44:JA:259:LEU:HD23	2.27	0.54
44:JA:434:GLU:O	44:JA:437:ILE:HG12	2.07	0.54
45:JD:130:LEU:CB	45:JD:162:ARG:HD2	2.36	0.54
45:JD:152:ILE:O	45:JD:155:VAL:HG12	2.06	0.54
45:JD:309:ARG:NH1	45:JD:340:TYR:HA	2.22	0.54
44:JE:90:GLU:HB3	44:KE:280:LYS:HZ1	1.70	0.54
45:JH:87:PRO:CD	45:KH:281:TYR:HD2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JI:180:ALA:CB	44:JI:183:GLU:HB3	2.34	0.54
44:JI:404:PHE:CE2	45:JJ:345:ILE:HD11	2.42	0.54
44:JM:176:GLN:OE1	44:JM:176:GLN:N	2.40	0.54
44:JM:219:ILE:O	44:JM:222:PRO:HD3	2.07	0.54
44:KA:84:ARG:HD2	44:KA:84:ARG:O	2.07	0.54
44:KC:176:GLN:NE2	44:KC:207:GLU:OE2	2.40	0.54
44:KC:349:THR:O	45:KF:179:VAL:HG13	2.07	0.54
45:KF:146:GLY:O	45:KF:149:THR:HG22	2.07	0.54
44:KG:203:MET:HA	44:KG:203:MET:CE	2.37	0.54
44:KG:326:LYS:HZ3	45:KJ:219:THR:CA	2.20	0.54
44:KI:21:TRP:CZ2	44:KI:65:ALA:HB2	2.42	0.54
44:KI:23:LEU:O	44:KI:27:GLU:HG3	2.07	0.54
44:KI:79:ARG:NH2	44:KI:92:LEU:O	2.40	0.54
45:KJ:174:LYS:HE2	45:KJ:174:LYS:H	1.71	0.54
44:KK:88:HIS:CE1	44:KK:89:PRO:HD2	2.43	0.54
44:KK:388:PHE:CD2	44:KK:428:LEU:HD21	2.43	0.54
45:KL:204:ASN:OD1	45:KL:205:GLU:N	2.40	0.54
45:KL:287:PRO:O	45:KL:290:THR:HG22	2.08	0.54
44:KM:176:GLN:HG2	44:KM:177:VAL:N	2.22	0.54
44:KM:250:VAL:CG1	44:KM:352:LYS:HE3	2.37	0.54
44:KM:319:TYR:N	44:KM:354:GLY:O	2.35	0.54
45:KN:309:ARG:CB	45:KN:342:VAL:HG22	2.38	0.54
45:LB:166:THR:OG1	45:LB:198:GLU:O	2.25	0.54
45:LB:356:ILE:O	45:LB:356:ILE:HG23	2.07	0.54
45:LB:383:GLU:O	45:LB:386:THR:HG22	2.07	0.54
45:LB:395:LEU:HG	45:LB:399:THR:OG1	2.07	0.54
44:LC:196:GLU:HG2	44:LC:197:HIS:CE1	2.42	0.54
45:LD:21:TRP:CH2	45:LD:61:PRO:HB3	2.42	0.54
45:LD:99:ASN:HA	45:LD:142:GLY:H	1.72	0.54
45:LD:143:THR:HG23	45:LD:144:GLY:N	2.22	0.54
45:LH:102:ALA:CB	45:LH:401:GLU:HG3	2.36	0.54
44:LI:74:VAL:HG13	45:LJ:247:ASN:OD1	2.06	0.54
44:LI:288:VAL:HG11	44:LI:327:ASP:CB	2.31	0.54
45:LJ:3:GLU:CG	45:LJ:127:CYS:HB2	2.37	0.54
45:LJ:28:HIS:ND1	45:LJ:47:ILE:HD13	2.22	0.54
45:LL:342:VAL:HG22	45:LL:343:GLU:H	1.71	0.54
44:LM:1:MET:CE	44:LM:131:GLY:HA3	2.37	0.54
44:MC:195:LEU:HG	44:MC:196:GLU:OE2	2.07	0.54
45:MD:61:PRO:HD2	45:MD:84:LEU:O	2.07	0.54
45:MD:83:GLN:HA	45:MD:83:GLN:OE1	2.07	0.54
44:ME:377:MET:O	44:ME:378:ILE:HD13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:73:MET:CE	45:MF:92:PHE:HB3	2.38	0.54
44:MI:56:THR:HG23	44:MI:58:ALA:H	1.72	0.54
45:MJ:21:TRP:HA	45:MJ:24:ILE:HG22	1.89	0.54
44:MK:156:ARG:HA	44:MK:159:VAL:HG12	1.89	0.54
44:MK:362:VAL:HG13	44:MK:362:VAL:O	2.07	0.54
45:ML:352:SER:C	45:ML:353:ILE:HD12	2.27	0.54
45:MN:8:GLN:O	45:MN:66:MET:HG2	2.07	0.54
45:MN:395:LEU:O	45:MN:399:THR:HG23	2.07	0.54
44:NA:100:ALA:HB1	45:NB:252:LYS:HD3	1.88	0.54
44:NC:36:MET:SD	44:NC:61:HIS:HE1	2.30	0.54
44:NE:107:HIS:C	44:NE:108:TYR:HD1	2.11	0.54
44:NE:319:TYR:CD1	44:NE:375:VAL:HG22	2.43	0.54
44:NG:54:SER:CA	44:NG:64:ARG:HH21	2.20	0.54
44:NI:103:PHE:CE2	44:NI:189:LEU:HD13	2.42	0.54
44:NI:188:ILE:HG23	44:NI:425:LEU:CD2	2.38	0.54
44:NK:136:LEU:CD2	44:NK:167:LEU:HB2	2.37	0.54
44:NK:177:VAL:HG22	44:NK:207:GLU:OE2	2.07	0.54
44:NM:109:THR:HG21	44:NM:411:GLU:CG	2.38	0.54
44:NM:276:ILE:HG13	44:NM:371:VAL:N	2.23	0.54
45:NN:172:SER:HB2	45:NN:173:PRO:HD2	1.88	0.54
45:NN:261:PRO:CD	45:NN:262:ARG:H	2.15	0.54
44:OA:21:TRP:CZ2	44:OA:63:PRO:HB3	2.41	0.54
44:OA:21:TRP:HA	44:OA:24:PHE:HB2	1.89	0.54
45:OB:113:ILE:HG12	45:OB:117:LEU:HD21	1.86	0.54
45:OB:169:VAL:HG22	45:OB:202:ILE:HG21	1.88	0.54
44:OC:71:GLU:CD	44:OC:73:THR:H	2.10	0.54
45:OH:238:CYS:HB3	45:OH:318:ARG:NH1	2.22	0.54
45:OJ:183:TYR:CE1	45:OJ:388:MET:HB2	2.42	0.54
45:OJ:298:ASN:O	45:OJ:298:ASN:ND2	2.39	0.54
44:OK:306:ASP:OD2	44:OK:309:HIS:N	2.40	0.54
45:OL:166:THR:OG1	45:OL:199:CYS:HA	2.07	0.54
45:OL:215:LEU:HD13	45:OL:217:LEU:CD1	2.37	0.54
44:OM:294:SER:O	44:OM:297:GLU:HB2	2.07	0.54
45:ON:314:SER:HA	45:ON:350:LYS:HB3	1.88	0.54
45:ON:342:VAL:HG11	45:ON:345:ILE:HD11	1.89	0.54
44:PA:106:GLY:C	44:PA:111:GLY:HA3	2.27	0.54
44:PA:387:VAL:HA	44:PA:390:ARG:CG	2.35	0.54
45:PB:304:ASP:OD1	45:PB:305:PRO:HD2	2.07	0.54
44:PC:209:ILE:CG2	44:PC:227:LEU:HD22	2.37	0.54
45:PD:146:GLY:O	45:PD:150:LEU:HG	2.08	0.54
45:PD:309:ARG:HG2	45:PD:340:TYR:C	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:86:ARG:HE	45:PF:87:PRO:HD2	1.70	0.54
44:PG:141:VAL:HG21	44:PG:172:TYR:CE1	2.43	0.54
44:PG:221:ARG:NH2	45:PH:321:MET:HA	2.21	0.54
44:PG:230:LEU:CD1	44:PG:275:ILE:HD13	2.37	0.54
44:PG:344:VAL:CG1	44:PG:347:CYS:HB3	2.38	0.54
45:PH:47:ILE:HG12	45:PH:51:TYR:CB	2.36	0.54
45:PH:72:THR:HG23	45:PH:73:MET:N	2.21	0.54
45:PH:267:MET:HE1	45:PH:371:SER:HB3	1.88	0.54
44:PI:5:ILE:HD11	44:PI:132:LEU:CD1	2.38	0.54
44:PI:291:ILE:HG13	44:PI:292:THR:N	2.21	0.54
45:PJ:395:LEU:O	45:PJ:399:THR:HG23	2.07	0.54
44:PK:141:VAL:HG11	44:PK:172:TYR:CD1	2.40	0.54
44:PK:270:SER:O	44:PK:302:MET:HB2	2.07	0.54
44:PK:312:TYR:CD1	44:PK:341:ILE:HG23	2.41	0.54
45:PL:309:ARG:CZ	45:PL:342:VAL:HA	2.36	0.54
44:PM:89:PRO:HD3	44:QM:280:LYS:NZ	2.22	0.54
45:PN:267:MET:SD	45:PN:303:ALA:HB3	2.47	0.54
44:QA:185:TYR:O	44:QA:188:ILE:HG22	2.06	0.54
45:QF:86:ARG:HB3	45:QF:89:ASN:CG	2.28	0.54
45:QF:271:ALA:HB1	45:QF:272:PRO:HA	1.89	0.54
44:QG:189:LEU:HD11	44:QG:413:MET:SD	2.47	0.54
44:QG:319:TYR:CZ	44:QG:328:VAL:HG23	2.43	0.54
45:QH:60:VAL:HG13	45:QH:60:VAL:O	2.07	0.54
44:QI:5:ILE:HD12	44:QI:135:PHE:HE1	1.71	0.54
44:QI:71:GLU:OE1	44:QI:73:THR:N	2.39	0.54
44:QI:188:ILE:HD12	44:QI:425:LEU:HD11	1.88	0.54
44:QI:208:ALA:O	44:QI:212:ILE:HG12	2.07	0.54
45:QL:28:HIS:C	45:QL:43:GLN:HE21	2.11	0.54
45:QL:40:SER:OG	45:QL:43:GLN:HB2	2.08	0.54
45:QL:214:THR:O	45:QL:216:LYS:HG3	2.07	0.54
45:QL:229:VAL:HA	45:QL:232:ALA:HB3	1.88	0.54
45:QL:304:ASP:CG	45:QL:306:ARG:HG2	2.28	0.54
44:QM:259:LEU:HD11	44:QM:378:ILE:HG22	1.89	0.54
44:QM:340:THR:HG23	44:QM:341:ILE:HG13	1.89	0.54
45:QN:146:GLY:O	45:QN:149:THR:HG22	2.07	0.54
44:RA:209:ILE:HG22	44:RA:227:LEU:HD22	1.89	0.54
45:RB:131:GLN:HE22	45:RB:249:ASP:HB2	1.72	0.54
45:RB:167:PHE:CZ	45:RB:233:MET:HG3	2.42	0.54
45:RB:257:LEU:HD12	45:RB:314:SER:CB	2.37	0.54
45:RB:282:ARG:HG3	45:RB:283:ALA:N	2.22	0.54
45:RD:4:ILE:HG22	45:RD:131:GLN:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:11:GLN:HG3	45:RD:72:THR:OG1	2.08	0.54
45:RD:190:HIS:CE1	45:RD:414:ASN:HB3	2.43	0.54
45:RD:257:LEU:HD21	45:RD:314:SER:OG	2.06	0.54
45:RF:132:GLY:HA3	45:RF:163:ILE:HG13	1.88	0.54
44:RG:5:ILE:HB	44:RG:135:PHE:HD1	1.72	0.54
44:RG:102:ASN:OD1	44:RG:104:ALA:HB3	2.07	0.54
44:RG:200:VAL:HA	44:RG:266:HIS:CB	2.20	0.54
44:RG:264:ARG:NE	44:RG:431:ASP:OD2	2.40	0.54
45:RH:324:LYS:HD2	44:RI:210:TYR:CD1	2.43	0.54
44:RI:88:HIS:HB3	44:RI:91:GLN:CD	2.27	0.54
44:RI:320:ARG:NE	44:RI:360:PRO:HG3	2.23	0.54
45:RJ:288:GLU:HA	45:RJ:291:GLN:CG	2.36	0.54
45:RL:205:GLU:O	45:RL:209:ASP:N	2.29	0.54
45:RL:210:ILE:HD11	45:RL:298:ASN:O	2.07	0.54
45:RN:101:TRP:HZ2	45:RN:149:THR:HG21	1.71	0.54
45:RN:290:THR:HA	45:RN:293:MET:HE3	1.89	0.54
44:SA:54:SER:HB3	44:SA:64:ARG:HH12	1.72	0.54
45:SB:289:LEU:O	45:SB:293:MET:HG3	2.08	0.54
44:SC:63:PRO:HG2	44:SC:86:LEU:HG	1.88	0.54
44:SC:206:ASN:HA	44:SC:209:ILE:CD1	2.37	0.54
45:SD:3:GLU:HA	45:SD:49:VAL:HG23	1.89	0.54
44:SE:69:ASP:OD2	44:SE:74:VAL:HG21	2.08	0.54
44:SE:271:SER:HB2	44:SE:377:MET:SD	2.48	0.54
45:SF:55:THR:HG23	45:TF:283:ALA:HA	1.88	0.54
44:SG:99:ALA:CA	44:SG:110:ILE:HD11	2.32	0.54
44:SI:328:VAL:HG21	44:SI:355:ILE:HD11	1.89	0.54
45:SJ:97:ALA:O	45:SJ:103:LYS:HD2	2.06	0.54
45:SJ:263:LEU:HD21	45:SJ:422:TYR:CE1	2.43	0.54
45:SJ:358:PRO:CB	45:SJ:361:LEU:HB2	2.29	0.54
45:SL:127:CYS:SG	45:SL:130:LEU:HB2	2.48	0.54
45:SL:235:GLY:C	45:SL:366:THR:HG21	2.27	0.54
45:SL:320:ARG:HG3	45:SL:355:ASP:HB3	1.88	0.54
44:TA:275:ILE:HG23	44:TA:368:LEU:CD1	2.37	0.54
44:TC:118:CYS:O	44:TC:122:ILE:HG12	2.08	0.54
44:TC:261:PRO:HA	45:TD:394:PHE:CD1	2.43	0.54
44:TC:320:ARG:CG	44:TC:374:ALA:HB3	2.37	0.54
44:TE:145:THR:HG22	46:TE:501:GTP:O3B	2.06	0.54
45:TH:256:ASN:C	45:TH:257:LEU:HD12	2.26	0.54
44:TI:49:PHE:HD2	44:TI:53:PHE:HB2	1.71	0.54
44:TI:189:LEU:O	44:TI:192:HIS:HB3	2.08	0.54
45:TJ:164:MET:HG3	45:TJ:197:ASP:CG	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:166:THR:O	45:TJ:199:CYS:HA	2.07	0.54
44:TM:68:LEU:CD2	44:TM:153:LEU:HD11	2.37	0.54
44:TM:188:ILE:HG23	44:TM:425:LEU:CD1	2.38	0.54
44:TM:202:VAL:HA	44:TM:268:MET:O	2.07	0.54
45:UB:102:ALA:HB2	45:UB:398:TYR:CD1	2.42	0.54
44:UC:200:VAL:HG13	44:UC:268:MET:SD	2.47	0.54
44:UC:213:CYS:O	44:UC:217:LEU:HB2	2.08	0.54
45:UD:207:LEU:O	45:UD:211:CYS:N	2.38	0.54
44:UE:213:CYS:HA	44:UE:217:LEU:HB2	1.89	0.54
45:UF:81:PHE:HD2	45:UF:84:LEU:HD11	1.72	0.54
44:UG:173:PRO:HG2	44:UG:391:LEU:HD11	1.88	0.54
44:UG:231:ILE:O	44:UG:235:ILE:HG12	2.07	0.54
45:UH:7:ILE:HB	45:UH:135:ILE:HD13	1.88	0.54
44:UI:268:MET:HG3	44:UI:378:ILE:HG22	1.90	0.54
44:UI:402:ARG:O	44:UI:405:VAL:HG22	2.08	0.54
44:UI:439:THR:OG1	45:UJ:390:ARG:HD3	2.08	0.54
44:UK:292:THR:O	44:UK:295:ALA:HB3	2.06	0.54
44:UK:318:MET:O	44:UK:375:VAL:HG23	2.06	0.54
45:UL:334:GLN:HG3	45:UL:341:PHE:CD2	2.42	0.54
44:UM:70:LEU:HB3	44:UM:97:GLU:O	2.07	0.54
44:UM:93:ILE:H	44:UM:93:ILE:HD12	1.71	0.54
44:UM:261:PRO:HG3	45:UN:394:PHE:CZ	2.42	0.54
44:UM:360:PRO:HG2	44:UM:374:ALA:HB2	1.89	0.54
45:UN:119:VAL:CA	45:UN:122:LYS:HB2	2.32	0.54
44:VA:107:HIS:CE1	44:VA:152:LEU:HD13	2.42	0.54
44:VA:390:ARG:HG3	44:VA:391:LEU:N	2.22	0.54
45:VB:139:LEU:HG	45:VB:188:SER:OG	2.07	0.54
45:VB:139:LEU:CD1	45:VB:168:SER:HB3	2.37	0.54
44:VC:91:GLN:C	44:VC:93:ILE:HD12	2.28	0.54
45:VD:314:SER:CB	45:VD:350:LYS:HB3	2.36	0.54
44:VE:202:VAL:CG1	44:VE:204:LEU:HD11	2.37	0.54
44:VG:298:PRO:HA	44:VG:301:MET:CE	2.38	0.54
44:VK:191:THR:HA	44:VK:194:LEU:CG	2.38	0.54
45:VL:19:LYS:O	45:VL:22:GLU:HB2	2.07	0.54
45:VN:180:VAL:HG22	45:VN:183:TYR:HB2	1.89	0.54
44:WA:270:SER:HB2	44:WA:377:MET:O	2.08	0.54
44:WC:141:VAL:CG1	44:WC:172:TYR:HA	2.36	0.54
44:WC:361:THR:HG22	44:WC:362:VAL:N	2.22	0.54
45:WD:222:TYR:O	45:WD:226:ASN:ND2	2.38	0.54
45:WF:101:TRP:HB3	45:WF:398:TYR:HE1	1.73	0.54
44:WI:287:SER:O	44:WI:291:ILE:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:245:GLN:C	45:WJ:246:LEU:HD12	2.28	0.54
45:WL:182:PRO:HG2	45:WL:388:MET:HE1	1.89	0.54
44:WM:285:GLN:NE2	44:WM:287:SER:HB2	2.20	0.54
45:WN:40:SER:N	45:WN:43:GLN:OE1	2.36	0.54
3:0B:23:ALA:HA	45:JH:276:ARG:NH2	2.20	0.54
7:0F:192:THR:HG21	45:ED:1:MET:HG3	1.87	0.54
10:1N:160:GLN:O	45:KJ:276:ARG:HD3	2.08	0.54
25:1P:200:LEU:HD22	45:TH:276:ARG:HG2	1.88	0.54
25:1P:341:LEU:HB3	44:TC:364:PRO:HG3	1.89	0.54
26:1R:193:TYR:HD1	44:AC:40:LYS:HG2	1.72	0.54
15:1V:106:TYR:OH	44:LI:193:SER:HA	2.07	0.54
32:2I:67:LYS:HG2	44:GE:326:LYS:NZ	2.22	0.54
22:2L:489:ASN:O	35:6R:220:ILE:CD1	2.55	0.54
22:2L:756:GLU:OE2	45:BL:285:THR:HG22	2.07	0.54
31:3H:218:HIS:O	44:MG:84:ARG:NH2	2.37	0.54
32:3I:281:THR:HG21	45:GJ:219:THR:HG23	1.87	0.54
16:4X:129:ILE:HD11	45:KH:55:THR:OG1	2.08	0.54
39:5K:22:TRP:CZ2	45:NL:343:GLU:HB3	2.42	0.54
35:5R:286:GLU:OE1	35:5R:288:LYS:HG3	2.07	0.54
35:5R:455:VAL:HG21	35:5R:471:LEU:HD12	1.88	0.54
41:6G:181:GLY:O	41:6G:183:GLY:N	2.36	0.54
35:6R:286:GLU:OE2	35:6R:288:LYS:HE3	2.07	0.54
35:7R:118:LEU:CD1	35:7R:127:ILE:HD11	2.37	0.54
42:8L:33:UNK:HA	42:8L:36:UNK:CB	2.38	0.54
44:AA:217:LEU:HD11	44:AA:275:ILE:HG22	1.89	0.54
44:AA:278:ALA:N	44:AA:369:ALA:HB2	2.23	0.54
44:AA:422:ARG:CZ	44:AA:422:ARG:HB3	2.37	0.54
44:AE:229:ARG:HD3	44:AE:363:VAL:HG11	1.88	0.54
44:AG:170:THR:O	44:AG:171:ILE:HD13	2.08	0.54
44:AG:236:SER:C	44:AG:320:ARG:HH12	2.11	0.54
44:AI:96:LYS:HB3	45:AJ:1:MET:HE2	1.89	0.54
44:AI:100:ALA:CB	45:AJ:251:ARG:HG2	2.37	0.54
45:AJ:372:THR:HA	45:AJ:422:TYR:CE2	2.36	0.54
45:AL:13:GLY:O	45:AL:16:ILE:HG22	2.07	0.54
44:AM:137:VAL:HG13	44:AM:168:GLY:HA2	1.89	0.54
45:BB:114:ASP:OD1	45:BB:115:SER:N	2.40	0.54
45:BD:25:SER:OG	45:BD:51:TYR:OH	2.22	0.54
45:BD:73:MET:O	45:BD:76:VAL:HG12	2.07	0.54
45:BD:165:GLU:OE2	45:BD:250:LEU:HD22	2.07	0.54
44:BE:60:LYS:HD3	44:CE:283:HIS:NE2	2.22	0.54
44:BE:212:ILE:HD13	44:BE:215:ARG:NH2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:201:VAL:HG22	45:BF:266:PHE:O	2.08	0.54
44:BG:66:VAL:HG22	44:BG:68:LEU:CD1	2.38	0.54
44:BG:320:ARG:CD	44:BG:360:PRO:HD3	2.38	0.54
44:BI:71:GLU:OE1	44:BI:73:THR:HB	2.07	0.54
44:CA:107:HIS:NE2	44:CA:152:LEU:HD13	2.22	0.54
45:CB:10:GLY:O	45:CB:14:ASN:HB2	2.07	0.54
45:CB:68:LEU:HD12	45:CB:93:GLY:HA3	1.90	0.54
44:CC:262:TYR:OH	45:CD:391:ARG:O	2.12	0.54
44:CI:88:HIS:HB3	44:CI:91:GLN:CG	2.37	0.54
44:CI:262:TYR:HB3	44:CI:263:PRO:HD2	1.87	0.54
45:CJ:165:GLU:OE2	45:CJ:250:LEU:HD13	2.08	0.54
45:CJ:271:ALA:HB1	45:CJ:272:PRO:HA	1.90	0.54
45:CJ:274:THR:OG1	45:CJ:279:GLN:HA	2.07	0.54
45:CJ:323:THR:HG23	44:CK:223:THR:HG23	1.90	0.54
45:CJ:389:PHE:CE1	45:CJ:408:PHE:HB3	2.41	0.54
44:CM:6:SER:HA	44:CM:136:LEU:H	1.71	0.54
44:CM:270:SER:HB3	44:CM:378:ILE:CD1	2.37	0.54
45:CN:137:HIS:O	45:CN:168:SER:HA	2.07	0.54
45:CN:249:ASP:OD1	45:CN:252:LYS:HG2	2.08	0.54
45:CN:286:VAL:HG21	45:CN:321:MET:HE3	1.88	0.54
44:DA:141:VAL:HG11	44:DA:172:TYR:HA	1.88	0.54
44:DA:161:TYR:HB3	44:DA:164:LYS:HB2	1.90	0.54
44:DC:27:GLU:OE1	44:DC:243:ARG:NH2	2.40	0.54
44:DC:154:LEU:HD22	44:DC:166:LYS:HD2	1.88	0.54
45:DD:54:ALA:HA	45:ED:283:ALA:CB	2.36	0.54
45:DD:139:LEU:HD23	45:DD:188:SER:OG	2.07	0.54
44:DE:265:ILE:O	44:DE:265:ILE:HG23	2.07	0.54
44:DG:182:VAL:O	44:DG:182:VAL:HG22	2.08	0.54
44:DG:320:ARG:HG3	44:DG:374:ALA:HB3	1.89	0.54
44:DI:183:GLU:HG2	44:DI:184:PRO:HD3	1.89	0.54
44:DK:207:GLU:OE1	44:DK:304:LYS:HE3	2.07	0.54
45:DL:5:VAL:HA	45:DL:62:ARG:HD3	1.88	0.54
44:DM:273:ALA:O	44:DM:375:VAL:HG12	2.08	0.54
45:DN:211:CYS:O	45:DN:216:LYS:N	2.39	0.54
45:DN:395:LEU:O	45:DN:399:THR:HG23	2.07	0.54
45:EF:273:LEU:HD12	45:EF:298:ASN:OD1	2.08	0.54
45:EH:288:GLU:HA	45:EH:291:GLN:CG	2.37	0.54
44:EI:231:ILE:O	44:EI:234:VAL:HB	2.08	0.54
44:EI:276:ILE:CD1	44:EI:280:LYS:HG2	2.21	0.54
44:EI:311:LYS:HB2	44:EI:344:VAL:CG2	2.37	0.54
45:EJ:318:ARG:HB3	45:EJ:358:PRO:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:175:PRO:HB2	44:EK:176:GLN:OE1	2.07	0.54
45:EL:198:GLU:OE2	45:EL:258:ILE:HD11	2.07	0.54
44:EM:6:SER:HB3	44:EM:136:LEU:HB2	1.88	0.54
44:FA:203:MET:HA	44:FA:203:MET:HE3	1.89	0.54
45:FB:191:GLN:O	45:FB:195:ASN:N	2.37	0.54
44:FC:192:HIS:ND1	44:FC:424:ASP:OD2	2.40	0.54
45:FD:377:MET:HA	45:FD:380:ARG:NE	2.23	0.54
44:FE:66:VAL:HG13	44:FE:66:VAL:O	2.08	0.54
45:FF:215:LEU:HD13	45:FF:217:LEU:HD21	1.90	0.54
44:FG:287:SER:HB3	44:FG:290:GLU:HG2	1.88	0.54
44:FG:319:TYR:CD2	44:FG:323:VAL:HG21	2.42	0.54
45:FH:289:LEU:HD11	45:FH:363:MET:CE	2.33	0.54
45:FH:377:MET:O	45:FH:380:ARG:HG2	2.08	0.54
45:FJ:105:HIS:O	45:FJ:105:HIS:ND1	2.41	0.54
45:FJ:215:LEU:HD23	45:FJ:215:LEU:O	2.07	0.54
44:FK:66:VAL:HG21	44:FK:122:ILE:HD11	1.90	0.54
44:FK:98:ASP:OD1	44:FK:99:ALA:N	2.41	0.54
44:FK:221:ARG:NH2	45:FL:326:VAL:HG23	2.07	0.54
45:FL:117:LEU:O	45:FL:120:VAL:HG12	2.06	0.54
44:FM:169:PHE:CE1	44:FM:202:VAL:HG21	2.42	0.54
45:FN:187:LEU:HD21	45:FN:408:PHE:CD1	2.42	0.54
45:FN:222:TYR:HA	45:FN:225:LEU:HB2	1.88	0.54
44:GA:269:LEU:O	44:GA:379:SER:N	2.21	0.54
45:GH:170:VAL:CG2	45:GH:171:PRO:HD2	2.36	0.54
44:GI:21:TRP:CZ2	44:GI:65:ALA:HB2	2.42	0.54
44:GI:217:LEU:HD22	44:GI:367:ASP:HB3	1.88	0.54
45:GJ:114:ASP:OD1	45:GJ:115:SER:N	2.38	0.54
44:GK:177:VAL:CG2	45:GL:331:LEU:HD23	2.38	0.54
44:GK:213:CYS:SG	44:GK:217:LEU:HD12	2.47	0.54
45:GL:193:VAL:HA	45:GL:264:HIS:NE2	2.22	0.54
44:GM:298:PRO:HA	44:GM:307:PRO:HG3	1.89	0.54
44:HA:26:LEU:O	44:HA:26:LEU:HD12	2.07	0.54
44:HA:217:LEU:HD21	44:HA:368:LEU:CD2	2.37	0.54
44:HA:248:LEU:HD21	44:HA:353:VAL:HG23	1.89	0.54
45:HB:134:GLN:HA	45:HB:165:GLU:O	2.07	0.54
45:HB:287:PRO:HA	45:HB:290:THR:CG2	2.37	0.54
44:HE:261:PRO:HG2	44:HE:313:MET:HE2	1.88	0.54
45:HF:2:ARG:HB2	45:HF:131:GLN:HG2	1.89	0.54
45:HH:53:GLU:O	45:IH:283:ALA:HB2	2.08	0.54
45:HH:68:LEU:HB3	45:HH:143:THR:OG1	2.08	0.54
45:HH:341:PHE:HB3	45:HH:348:ASN:ND2	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:101:ASN:HA	44:HK:144:GLY:CA	2.37	0.54
44:HK:101:ASN:OD1	44:HK:144:GLY:N	2.40	0.54
44:HK:258:ASN:HD21	44:HK:352:LYS:HE2	1.72	0.54
45:HL:268:ILE:HG21	45:HL:368:VAL:HG22	1.88	0.54
45:HL:334:GLN:HA	45:HL:341:PHE:HE2	1.70	0.54
44:HM:240:ALA:HA	44:HM:243:ARG:HG2	1.89	0.54
44:IC:288:VAL:HG11	44:IC:327:ASP:CB	2.37	0.54
45:ID:6:HIS:O	45:ID:63:ALA:HA	2.07	0.54
45:IF:238:CYS:SG	45:IF:318:ARG:HD2	2.48	0.54
44:II:23:LEU:HD11	44:II:233:GLN:OE1	2.08	0.54
45:IJ:46:ARG:O	45:IJ:49:VAL:HG12	2.08	0.54
45:IJ:215:LEU:O	45:IJ:275:SER:HB2	2.07	0.54
45:IJ:387:ALA:O	45:IJ:390:ARG:HG2	2.07	0.54
44:IK:222:PRO:HD2	45:IL:324:LYS:HD3	1.90	0.54
45:IL:88:ASP:OD2	45:IL:151:LEU:HB2	2.07	0.54
45:IL:137:HIS:NE2	45:IL:168:SER:OG	2.41	0.54
45:IL:161:ASP:O	45:IL:162:ARG:NH2	2.40	0.54
45:IL:318:ARG:CZ	45:IL:358:PRO:HD3	2.38	0.54
45:IN:192:LEU:CD1	45:IN:196:ALA:HB2	2.37	0.54
45:JB:36:TYR:OH	45:JB:43:GLN:NE2	2.41	0.54
44:JC:212:ILE:HD11	44:JC:300:ASN:HA	1.88	0.54
44:JC:250:VAL:HG22	44:JC:352:LYS:HZ2	1.72	0.54
44:JC:274:PRO:HD2	44:JC:374:ALA:CB	2.37	0.54
44:JE:153:LEU:O	44:JE:157:LEU:HD23	2.08	0.54
45:JF:208:TYR:O	45:JF:211:CYS:N	2.41	0.54
45:JF:330:MET:O	45:JF:333:VAL:HG12	2.08	0.54
44:JG:2:ARG:HG3	44:JG:2:ARG:O	2.07	0.54
44:JG:135:PHE:CE1	44:JG:157:LEU:HD21	2.41	0.54
44:JK:28:HIS:HB3	44:JK:36:MET:CE	2.37	0.54
45:JL:182:PRO:O	45:JL:186:THR:HG23	2.08	0.54
44:JM:269:LEU:HB2	44:JM:301:MET:HE2	1.89	0.54
44:JM:340:THR:HG23	44:JM:341:ILE:HG12	1.88	0.54
45:KB:173:PRO:HD3	45:KB:380:ARG:CZ	2.37	0.54
44:KC:363:VAL:CG2	44:KC:364:PRO:HD2	2.37	0.54
44:KE:222:PRO:HD2	45:KF:324:LYS:HD2	1.88	0.54
44:KE:276:ILE:HG23	44:KE:280:LYS:HB3	1.89	0.54
45:KF:286:VAL:CB	45:KF:325:GLU:HG3	2.37	0.54
45:KH:9:GLY:HA3	45:KH:66:MET:HG3	1.88	0.54
45:KN:395:LEU:HD21	45:KN:399:THR:CG2	2.38	0.54
44:LA:224:TYR:CG	45:LB:323:THR:HG21	2.42	0.54
45:LB:345:ILE:HG13	45:LB:345:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:319:TYR:HB3	44:LE:323:VAL:HG11	1.88	0.54
44:LG:99:ALA:O	44:LG:102:ASN:N	2.35	0.54
45:LH:10:GLY:O	45:LH:14:ASN:N	2.35	0.54
45:LH:285:THR:HB	45:LH:287:PRO:HD2	1.89	0.54
44:LI:214:ARG:HG2	44:LI:214:ARG:O	2.07	0.54
44:LK:256:GLN:O	45:LN:397:TRP:CZ2	2.61	0.54
44:LM:301:MET:HE2	44:LM:301:MET:HA	1.89	0.54
45:LN:286:VAL:CG1	45:LN:289:LEU:HD12	2.35	0.54
45:MB:21:TRP:CZ3	45:MB:61:PRO:HB3	2.43	0.54
44:MC:6:SER:O	44:MC:7:ILE:HD13	2.07	0.54
44:MC:182:VAL:HG12	44:MC:182:VAL:O	2.05	0.54
45:MD:3:GLU:O	45:MD:130:LEU:HD12	2.08	0.54
44:ME:277:SER:O	44:ME:281:ALA:HB2	2.07	0.54
45:MF:165:GLU:OE2	45:MF:250:LEU:HD13	2.06	0.54
44:MG:176:GLN:HG2	44:MG:177:VAL:N	2.23	0.54
45:MH:3:GLU:HG3	45:MH:62:ARG:HH12	1.72	0.54
44:MI:216:ASN:HB3	44:MI:275:ILE:O	2.07	0.54
45:ML:99:ASN:HA	45:ML:142:GLY:N	2.21	0.54
44:MM:4:VAL:HG21	44:MM:136:LEU:HG	1.89	0.54
44:MM:155:GLU:HA	44:MM:197:HIS:CE1	2.42	0.54
45:MN:97:ALA:HA	45:MN:103:LYS:HD2	1.89	0.54
45:NB:64:ILE:HD11	45:NB:123:GLU:HG3	1.90	0.54
45:NB:199:CYS:HB3	45:NB:265:PHE:CE1	2.43	0.54
45:NB:318:ARG:HH11	45:NB:358:PRO:HG3	1.71	0.54
44:NC:167:LEU:HG	44:NC:200:VAL:HG23	1.90	0.54
44:NC:217:LEU:HA	44:NC:277:SER:HG	1.72	0.54
45:NF:376:GLU:O	45:NF:380:ARG:N	2.29	0.54
45:NH:352:SER:C	45:NH:353:ILE:HD12	2.28	0.54
45:NJ:134:GLN:HG3	45:NJ:134:GLN:O	2.06	0.54
45:NJ:238:CYS:HB2	45:NJ:318:ARG:NE	2.22	0.54
44:NK:185:TYR:HA	44:NK:395:PHE:CE1	2.42	0.54
44:NK:222:PRO:O	45:NL:322:SER:OG	2.23	0.54
45:NL:396:HIS:HA	45:NL:399:THR:CG2	2.34	0.54
44:NM:306:ASP:HB3	44:NM:309:HIS:CE1	2.43	0.54
45:NN:10:GLY:O	45:NN:14:ASN:ND2	2.37	0.54
45:NN:66:MET:CE	45:NN:147:MET:HB3	2.37	0.54
45:NN:309:ARG:NH2	45:NN:339:SER:OG	2.41	0.54
44:OA:388:PHE:HB2	44:OA:429:GLU:OE1	2.07	0.54
45:OB:4:ILE:HG22	45:OB:132:GLY:N	2.22	0.54
45:OB:285:THR:OG1	45:OB:288:GLU:HG2	2.07	0.54
44:OC:108:TYR:HE2	44:OC:413:MET:HG2	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:110:ALA:O	45:OD:113:ILE:HG22	2.07	0.54
45:OD:170:VAL:HG13	45:OD:201:VAL:CG2	2.31	0.54
44:OE:236:SER:HB3	44:OE:320:ARG:HH22	1.72	0.54
44:OE:265:ILE:CD1	44:OE:435:VAL:HG21	2.37	0.54
45:OH:262:ARG:C	45:OH:263:LEU:HD12	2.28	0.54
45:OH:407:GLU:HA	45:OH:410:GLU:OE1	2.07	0.54
44:OI:270:SER:HB2	44:OI:378:ILE:HD13	1.89	0.54
44:OK:3:GLU:OE2	44:OK:129:CYS:HB3	2.07	0.54
45:ON:239:CYS:CB	45:ON:354:CYS:HB2	2.36	0.54
45:ON:379:LYS:O	45:ON:382:ALA:HB3	2.08	0.54
45:PF:51:TYR:CE1	45:PF:61:PRO:HG3	2.42	0.54
44:PG:69:ASP:OD1	44:PG:70:LEU:N	2.40	0.54
44:PG:332:ILE:HG23	44:PG:351:PHE:CE2	2.42	0.54
45:PJ:105:HIS:O	45:PJ:106:TYR:HD1	1.90	0.54
45:PJ:360:GLY:O	45:PJ:361:LEU:HD22	2.07	0.54
44:PK:5:ILE:HD12	44:PK:135:PHE:CE1	2.42	0.54
45:PL:299:MET:HG3	45:PL:305:PRO:CG	2.35	0.54
44:PM:5:ILE:HD11	44:PM:125:LEU:O	2.07	0.54
45:PN:45:GLU:O	45:PN:46:ARG:HD3	2.06	0.54
45:PN:215:LEU:HA	45:PN:275:SER:HA	1.89	0.54
45:PN:286:VAL:HG11	45:PN:325:GLU:HG2	1.90	0.54
44:QA:210:TYR:HE1	44:QA:227:LEU:HD21	1.72	0.54
44:QA:296:PHE:CD2	44:QA:335:ILE:HG12	2.42	0.54
45:QB:290:THR:HG21	45:QB:329:GLN:OE1	2.07	0.54
44:QC:330:ALA:HA	44:QC:333:ALA:HB3	1.89	0.54
44:QE:1:MET:C	44:QE:2:ARG:HD3	2.28	0.54
44:QE:206:ASN:HD21	46:QE:501:GTP:C2'	2.20	0.54
45:QF:8:GLN:HB2	45:QF:13:GLY:O	2.06	0.54
45:QF:252:LYS:CD	44:QG:100:ALA:HA	2.37	0.54
44:QG:3:GLU:O	44:QG:133:GLN:N	2.40	0.54
44:QI:383:ALA:O	44:QI:386:GLU:HG2	2.07	0.54
45:QJ:139:LEU:HD12	45:QJ:188:SER:HB2	1.90	0.54
45:QJ:175:VAL:O	45:QJ:175:VAL:HG23	2.08	0.54
45:QJ:257:LEU:CA	45:QJ:312:THR:HG21	2.27	0.54
44:QK:10:GLY:HA2	44:QK:145:THR:HG23	1.89	0.54
45:QL:65:LEU:HD22	45:QL:90:PHE:CE1	2.42	0.54
45:QL:325:GLU:HA	45:QL:328:GLU:HG2	1.90	0.54
44:QM:393:HIS:NE2	44:QM:397:LEU:HD11	2.22	0.54
45:QN:407:GLU:O	45:QN:411:ALA:N	2.35	0.54
44:RA:383:ALA:O	44:RA:386:GLU:HG2	2.08	0.54
45:RB:97:ALA:CB	45:RB:143:THR:HB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:68:LEU:CD2	44:RE:153:LEU:HD11	2.37	0.54
45:RH:49:VAL:HG11	45:RH:241:ARG:CG	2.36	0.54
45:RH:86:ARG:HD2	45:RH:89:ASN:CG	2.28	0.54
45:RH:398:TYR:HB3	45:RH:403:MET:HE3	1.88	0.54
44:RI:155:GLU:HA	44:RI:197:HIS:NE2	2.21	0.54
45:RJ:66:MET:CE	45:RJ:147:MET:HG3	2.38	0.54
45:RJ:87:PRO:HD2	45:SJ:281:TYR:CD2	2.42	0.54
45:RJ:304:ASP:HB3	45:RJ:307:HIS:ND1	2.22	0.54
44:RK:2:ARG:HD2	44:RK:242:LEU:O	2.06	0.54
44:RK:291:ILE:HG13	44:RK:292:THR:N	2.22	0.54
45:RL:97:ALA:HB3	45:RL:143:THR:HG23	1.88	0.54
45:RL:268:ILE:CG2	45:RL:368:VAL:HG22	2.37	0.54
45:RL:303:ALA:HB1	45:RL:373:ALA:HB3	1.89	0.54
45:RL:324:LYS:HG3	44:RM:210:TYR:CD2	2.43	0.54
44:RM:141:VAL:HG13	44:RM:187:SER:OG	2.08	0.54
45:SB:354:CYS:SG	45:SB:356:ILE:HG22	2.47	0.54
44:SE:99:ALA:CA	44:SE:145:THR:HG23	2.37	0.54
45:SF:102:ALA:HB2	45:SF:403:MET:CE	2.38	0.54
45:SF:231:ALA:O	45:SF:234:SER:OG	2.16	0.54
45:SH:81:PHE:HA	45:SH:84:LEU:CD1	2.37	0.54
45:SJ:4:ILE:HD11	45:SJ:50:TYR:OH	2.07	0.54
44:SK:175:PRO:HD2	44:SK:207:GLU:OE1	2.08	0.54
45:SL:269:GLY:HA3	45:SL:299:MET:CE	2.36	0.54
44:SM:405:VAL:HG12	44:SM:409:VAL:HG23	1.90	0.54
45:SN:267:MET:HE3	45:SN:299:MET:CG	2.28	0.54
44:TA:14:ILE:HD12	44:TA:69:ASP:HB2	1.90	0.54
44:TA:115:VAL:O	44:TA:119:LEU:HD23	2.06	0.54
45:TB:189:VAL:HB	45:TB:415:MET:CE	2.38	0.54
45:TB:229:VAL:O	45:TB:233:MET:N	2.38	0.54
45:TB:256:ASN:CG	45:TB:350:LYS:HD2	2.28	0.54
45:TF:199:CYS:HB3	45:TF:264:HIS:O	2.07	0.54
44:TG:279:GLU:HB2	44:TG:280:LYS:NZ	2.23	0.54
44:TG:433:GLU:O	44:TG:437:ILE:HG23	2.07	0.54
44:TK:102:ASN:HB3	44:TK:105:ARG:HG3	1.88	0.54
45:TL:198:GLU:HG2	45:TL:266:PHE:HE2	1.73	0.54
44:TM:8:HIS:CD2	44:TM:16:VAL:HG13	2.43	0.54
44:TM:21:TRP:HA	44:TM:24:PHE:HB2	1.89	0.54
44:TM:23:LEU:O	44:TM:27:GLU:HG3	2.08	0.54
45:UB:284:LEU:HD13	45:UB:285:THR:N	2.22	0.54
44:UC:77:GLU:HA	44:UC:80:THR:OG1	2.07	0.54
44:UC:194:LEU:HD12	44:UC:266:HIS:HE1	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:8:GLN:O	45:UD:66:MET:HG2	2.07	0.54
44:UE:288:VAL:HA	44:UE:291:ILE:HG12	1.88	0.54
45:UF:247:ASN:ND2	44:UG:71:GLU:HG3	2.22	0.54
45:UF:249:ASP:OD1	45:UF:252:LYS:N	2.35	0.54
44:UI:269:LEU:H	44:UI:269:LEU:HD23	1.72	0.54
44:UI:276:ILE:HD11	44:UI:280:LYS:O	2.08	0.54
45:UJ:51:TYR:CD1	45:UJ:61:PRO:HA	2.43	0.54
45:UL:382:ALA:HA	45:UL:385:PHE:HB3	1.88	0.54
44:UM:70:LEU:HA	44:UM:95:GLY:HA3	1.90	0.54
45:UN:198:GLU:HB3	45:UN:200:MET:CE	2.38	0.54
44:VA:87:PHE:HB3	44:VA:92:LEU:CD1	2.33	0.54
44:VA:271:SER:OG	44:VA:301:MET:HA	2.07	0.54
44:VA:275:ILE:HA	44:VA:368:LEU:HD11	1.88	0.54
44:VA:323:VAL:CG1	44:VA:355:ILE:HG23	2.38	0.54
44:VC:280:LYS:CA	44:VC:283:HIS:HD2	2.21	0.54
45:VD:215:LEU:HD21	45:VD:217:LEU:HD23	1.89	0.54
44:VE:93:ILE:HD13	44:VE:117:LEU:CB	2.33	0.54
45:VF:282:ARG:HG2	45:VF:283:ALA:H	1.72	0.54
45:VF:294:PHE:CE2	45:VF:333:VAL:HG21	2.42	0.54
44:VG:242:LEU:HD11	44:VG:252:ILE:CD1	2.37	0.54
44:VK:416:GLY:HA2	44:VK:419:SER:OG	2.07	0.54
44:VM:269:LEU:H	44:VM:269:LEU:HD23	1.73	0.54
45:WB:242:PHE:CD2	45:WB:356:ILE:HB	2.42	0.54
44:WE:210:TYR:HA	45:WF:324:LYS:NZ	2.22	0.54
44:WE:325:PRO:CG	44:WE:355:ILE:HD13	2.31	0.54
45:WF:138:SER:O	45:WF:145:SER:HB3	2.07	0.54
44:WG:221:ARG:O	44:WG:221:ARG:HG3	2.07	0.54
44:WI:183:GLU:HA	44:WI:186:ASN:OD1	2.07	0.54
45:WJ:199:CYS:O	45:WJ:266:PHE:N	2.34	0.54
44:WK:71:GLU:OE1	44:WK:73:THR:N	2.40	0.54
45:WL:299:MET:HE1	45:WL:367:PHE:CE2	2.42	0.54
44:WM:103:PHE:CE1	44:WM:148:GLY:HA2	2.42	0.54
44:WM:208:ALA:HB3	44:WM:302:MET:O	2.07	0.54
1:6H:251:ASP:OD2	45:FF:361:LEU:CA	2.48	0.54
3:0B:211:GLN:HB2	44:JI:47:ASP:OD1	2.06	0.54
8:0G:56:LEU:CD2	44:JK:32:PRO:HD2	2.38	0.54
8:1G:175:THR:HB	45:LD:212:PHE:CD1	2.41	0.54
20:1J:162:VAL:HG23	45:IH:362:LYS:CE	2.34	0.54
22:1L:659:ASN:ND2	44:BE:79:ARG:O	2.41	0.54
10:1N:245:LYS:HE2	45:KJ:75:SER:HB3	1.90	0.54
27:1W:239:ARG:HB2	45:LB:279:GLN:HE21	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1X:99:VAL:O	44:MC:282:TYR:OH	2.26	0.54
2:2A:39:TYR:CE2	44:MI:78:VAL:HG22	2.42	0.54
26:2R:347:LYS:CG	44:CG:39:ASP:HB2	2.38	0.54
32:3I:254:ARG:NH2	44:FI:90:GLU:OE2	2.41	0.54
32:3I:263:PHE:HE1	45:GJ:294:PHE:HB3	1.72	0.54
26:3R:399:ILE:HD11	45:DL:92:PHE:CE2	2.42	0.54
31:4H:183:PHE:CZ	45:AL:228:LEU:HD21	2.42	0.54
31:4H:200:TYR:CE2	44:AK:77:GLU:HB3	2.41	0.54
35:4R:318:TYR:HE1	45:CF:273:LEU:HD23	1.69	0.54
37:5C:75:TYR:HE2	45:NJ:320:ARG:HG3	1.72	0.54
38:5F:206:VAL:HG21	44:LG:426:ALA:CB	2.38	0.54
38:5F:208:PRO:HD3	44:LG:430:LYS:NZ	2.22	0.54
39:5I:91:SER:HB2	44:JA:430:LYS:HG2	1.88	0.54
39:5K:31:SER:O	39:5K:35:ILE:HG12	2.08	0.54
35:5R:256:LEU:HD11	35:5R:359:TRP:CZ3	2.42	0.54
36:5S:125:GLU:HG3	36:5S:164:LYS:HE3	1.89	0.54
35:6R:354:ALA:HB3	44:CM:39:ASP:HB2	1.89	0.54
35:7R:127:ILE:CG2	35:7R:150:ILE:HG13	2.38	0.54
35:7R:351:ASN:OD1	35:7R:370:PRO:HB2	2.06	0.54
35:7R:389:ASN:N	45:EB:276:ARG:HH12	2.05	0.54
42:8L:282:UNK:O	42:8L:286:UNK:N	2.40	0.54
42:8L:366:UNK:HA	44:SC:370:LYS:NZ	2.23	0.54
44:AC:98:ASP:OD1	44:AC:99:ALA:N	2.40	0.54
44:AC:407:TRP:CZ3	45:AD:255:VAL:CA	2.90	0.54
45:AD:73:MET:HE1	45:AD:91:VAL:O	2.07	0.54
44:AE:398:MET:CE	45:AF:346:PRO:HD2	2.36	0.54
45:AF:146:GLY:O	45:AF:149:THR:HG22	2.08	0.54
44:AG:181:VAL:CG1	45:AH:256:ASN:HB3	2.38	0.54
44:AG:250:VAL:HG11	44:AG:255:PHE:CE1	2.43	0.54
44:AG:268:MET:HG3	44:AG:378:ILE:CG2	2.37	0.54
44:AG:312:TYR:O	44:AG:344:VAL:HG13	2.08	0.54
44:AI:222:PRO:O	45:AJ:322:SER:HB2	2.08	0.54
45:AJ:170:VAL:HG22	45:AJ:171:PRO:HD2	1.90	0.54
45:AJ:281:TYR:CZ	45:MJ:87:PRO:HD2	2.42	0.54
45:AJ:390:ARG:O	45:AJ:391:ARG:HD2	2.08	0.54
45:AN:169:VAL:HG23	45:AN:169:VAL:O	2.07	0.54
45:BD:395:LEU:HD11	45:BD:408:PHE:CE2	2.42	0.54
44:BE:229:ARG:O	44:BE:232:ALA:HB3	2.06	0.54
44:BG:3:GLU:HG3	44:BG:50:ASN:O	2.07	0.54
44:BG:98:ASP:OD1	44:BG:99:ALA:N	2.40	0.54
45:BL:183:TYR:CZ	45:BL:388:MET:HB3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:97:GLU:CG	44:BM:105:ARG:HH22	2.21	0.54
44:BM:139:ASN:OD1	44:BM:170:THR:HG22	2.07	0.54
44:BM:284:GLU:OE2	44:BM:286:LEU:HD22	2.07	0.54
45:BN:100:ASN:OD1	45:BN:103:LYS:HB2	2.05	0.54
44:CA:261:PRO:HA	45:CB:394:PHE:CD1	2.43	0.54
44:CA:316:SER:HA	44:CA:352:LYS:HB3	1.89	0.54
45:CB:101:TRP:CE3	45:CB:187:LEU:HD13	2.42	0.54
45:CB:223:GLY:O	45:CB:227:HIS:N	2.38	0.54
45:CB:399:THR:HA	45:CB:403:MET:O	2.08	0.54
44:CC:286:LEU:O	44:CC:286:LEU:HD23	2.07	0.54
45:CF:319:GLY:HA3	45:CF:357:PRO:HG3	1.88	0.54
45:CH:247:ASN:H	44:CI:11:GLN:HE22	1.56	0.54
44:CI:7:ILE:HG21	44:CI:153:LEU:CD2	2.38	0.54
44:CI:317:MET:HE2	44:CI:319:TYR:CE1	2.43	0.54
45:CJ:304:ASP:OD1	45:CJ:305:PRO:HD2	2.07	0.54
44:CM:88:HIS:ND1	44:CM:89:PRO:HD2	2.22	0.54
45:CN:103:LYS:O	45:CN:108:GLU:HB2	2.07	0.54
44:DA:1:MET:CE	45:DB:94:GLN:HG2	2.38	0.54
44:DA:140:SER:CB	44:DA:171:ILE:HB	2.37	0.54
45:DD:132:GLY:HA3	45:DD:163:ILE:HG13	1.90	0.54
45:DF:239:CYS:HA	45:DF:354:CYS:SG	2.48	0.54
45:DF:263:LEU:HG	45:DF:422:TYR:CD1	2.42	0.54
45:DF:280:GLN:N	45:DF:282:ARG:O	2.41	0.54
44:DK:77:GLU:HA	44:DK:80:THR:OG1	2.06	0.54
44:DK:106:GLY:O	44:DK:149:LEU:HD22	2.07	0.54
45:DL:256:ASN:CB	45:DL:350:LYS:HD2	2.38	0.54
44:DM:156:ARG:O	44:DM:159:VAL:HG12	2.07	0.54
44:DM:262:TYR:OH	45:DN:391:ARG:O	2.24	0.54
45:DN:130:LEU:CD2	45:DN:162:ARG:HD2	2.37	0.54
44:EA:136:LEU:CD2	44:EA:167:LEU:HB2	2.37	0.54
45:EB:100:ASN:CB	45:EB:103:LYS:HG2	2.34	0.54
44:EC:209:ILE:HG12	44:EC:302:MET:HE3	1.88	0.54
45:EF:202:ILE:HD11	45:EF:268:ILE:CG1	2.37	0.54
44:EG:195:LEU:O	44:EG:266:HIS:NE2	2.36	0.54
44:EG:259:LEU:HD22	44:EG:268:MET:CE	2.36	0.54
44:EI:141:VAL:HG11	44:EI:172:TYR:HA	1.89	0.54
45:EJ:135:ILE:O	45:EJ:166:THR:HA	2.07	0.54
45:EJ:318:ARG:HD3	45:EJ:358:PRO:CG	2.38	0.54
45:EJ:342:VAL:CG1	45:EJ:345:ILE:HG22	2.37	0.54
45:EL:256:ASN:HD22	45:EL:350:LYS:HE2	1.72	0.54
44:EM:52:PHE:O	44:EM:64:ARG:HD3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:195:LEU:HD12	44:EM:266:HIS:CE1	2.43	0.54
44:EM:319:TYR:HE2	44:EM:328:VAL:HG13	1.73	0.54
44:EM:363:VAL:O	44:EM:363:VAL:HG13	2.08	0.54
45:EN:86:ARG:CB	45:EN:89:ASN:HD22	2.19	0.54
45:EN:413:SER:O	45:EN:417:ASP:N	2.30	0.54
44:FA:91:GLN:O	44:FA:93:ILE:HD12	2.07	0.54
45:FB:135:ILE:HG22	45:FB:137:HIS:ND1	2.21	0.54
45:FB:287:PRO:HA	45:FB:290:THR:CG2	2.37	0.54
44:FC:97:GLU:HG2	44:FC:105:ARG:HH22	1.71	0.54
44:FC:271:SER:HA	44:FC:302:MET:HE2	1.89	0.54
44:FE:313:MET:HB2	44:FE:380:ASN:O	2.08	0.54
45:FF:217:LEU:HD12	45:FF:217:LEU:O	2.07	0.54
45:FH:73:MET:O	45:FH:76:VAL:HG12	2.08	0.54
45:FH:284:LEU:HB3	45:FH:363:MET:SD	2.47	0.54
45:FJ:217:LEU:HD11	45:FJ:220:PRO:HA	1.89	0.54
44:FK:323:VAL:C	44:FK:355:ILE:HD11	2.28	0.54
45:FL:100:ASN:HD22	45:FL:103:LYS:HB2	1.73	0.54
44:FM:182:VAL:O	44:FM:182:VAL:HG22	2.07	0.54
45:FN:163:ILE:HA	45:FN:197:ASP:OD2	2.07	0.54
44:GA:261:PRO:HG3	45:GD:394:PHE:CE1	2.43	0.54
45:GB:1:MET:C	45:GB:2:ARG:HG2	2.27	0.54
45:GB:406:MET:HA	45:GB:406:MET:HE2	1.90	0.54
44:GC:209:ILE:HG12	44:GC:302:MET:HE1	1.89	0.54
45:GD:207:LEU:O	45:GD:210:ILE:HG22	2.07	0.54
44:GE:185:TYR:O	44:GE:188:ILE:HG22	2.08	0.54
44:GE:344:VAL:HG12	44:GE:347:CYS:HB2	1.90	0.54
45:GF:406:MET:O	45:GF:410:GLU:HG3	2.06	0.54
44:GG:326:LYS:HG2	45:GJ:220:PRO:HD2	1.89	0.54
45:GH:70:PRO:O	45:GH:74:ASP:HB2	2.07	0.54
45:GH:189:VAL:HG21	45:GH:378:PHE:CE1	2.43	0.54
44:GI:29:GLY:C	44:GI:30:ILE:HD13	2.28	0.54
45:GJ:163:ILE:HD12	45:GJ:250:LEU:HB2	1.88	0.54
45:GJ:344:TRP:CE3	45:GJ:345:ILE:HB	2.42	0.54
44:GK:131:GLY:O	44:GK:133:GLN:NE2	2.41	0.54
44:GK:349:THR:O	44:GK:349:THR:HG23	2.07	0.54
45:GN:73:MET:O	45:GN:76:VAL:HG12	2.07	0.54
45:GN:156:ARG:HD3	45:GN:164:MET:HG3	1.90	0.54
44:HA:230:LEU:O	44:HA:233:GLN:HB2	2.08	0.54
44:HA:234:VAL:HG13	44:HA:376:CYS:SG	2.47	0.54
45:HB:234:SER:O	45:HB:238:CYS:HB3	2.08	0.54
44:HC:273:ALA:HB1	44:HC:274:PRO:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:257:LEU:HD21	45:HH:314:SER:HB3	1.89	0.54
44:HM:292:THR:HG22	44:HM:319:TYR:HE2	1.72	0.54
45:HN:50:TYR:CE2	45:HN:241:ARG:HD3	2.42	0.54
45:HN:100:ASN:OD1	45:HN:103:LYS:HB3	2.08	0.54
44:IA:250:VAL:HG12	44:IA:255:PHE:HE1	1.71	0.54
45:IB:310:TYR:HA	45:IB:371:SER:CB	2.37	0.54
44:IC:1:MET:CE	45:IF:94:GLN:HG3	2.38	0.54
44:IC:324:VAL:HG12	44:IC:327:ASP:OD2	2.07	0.54
44:IC:426:ALA:O	44:IC:430:LYS:HG3	2.08	0.54
44:IE:28:HIS:HE1	44:IE:243:ARG:HH11	1.56	0.54
44:IG:398:MET:HE1	45:IH:345:ILE:HG13	1.90	0.54
44:II:60:LYS:HE2	45:JJ:281:TYR:CA	2.34	0.54
44:IK:4:VAL:HG21	44:IK:52:PHE:CE1	2.43	0.54
44:IK:109:THR:HB	44:IK:110:ILE:HD12	1.89	0.54
44:IM:102:ASN:HB3	44:IM:105:ARG:HG3	1.88	0.54
45:IN:286:VAL:CG2	45:IN:321:MET:HG2	2.38	0.54
45:IN:313:ALA:HA	45:IN:369:GLY:HA2	1.88	0.54
45:IN:343:GLU:OE2	45:IN:430:ALA:N	2.37	0.54
44:JA:296:PHE:CE2	44:JA:335:ILE:HG21	2.38	0.54
45:JD:395:LEU:HG	45:JD:399:THR:CG2	2.38	0.54
45:JF:314:SER:HA	45:JF:350:LYS:HE3	1.88	0.54
45:JF:344:TRP:CE3	45:JF:345:ILE:HB	2.42	0.54
44:JG:172:TYR:HB3	44:JG:173:PRO:HD2	1.89	0.54
45:JH:238:CYS:HB2	45:JH:318:ARG:HD3	1.88	0.54
45:JH:318:ARG:NH2	45:JH:358:PRO:HG3	2.22	0.54
45:JH:401:GLU:HG2	45:JH:401:GLU:O	2.07	0.54
45:JJ:49:VAL:HG21	45:JJ:241:ARG:CG	2.33	0.54
45:JJ:133:PHE:CE2	45:JJ:155:VAL:HG11	2.41	0.54
45:JJ:193:VAL:HA	45:JJ:264:HIS:CE1	2.42	0.54
45:JJ:245:GLN:C	45:JJ:246:LEU:HD12	2.28	0.54
45:JL:36:TYR:CE2	45:JL:44:LEU:HD11	2.43	0.54
45:JL:173:PRO:HD3	45:JL:380:ARG:HD3	1.90	0.54
44:JM:314:ALA:CB	44:JM:380:ASN:HB3	2.34	0.54
44:JM:420:GLU:O	44:JM:423:GLU:HB2	2.07	0.54
44:JM:427:ALA:HA	44:JM:430:LYS:NZ	2.22	0.54
45:JN:165:GLU:HG2	45:JN:198:GLU:OE1	2.07	0.54
45:JN:245:GLN:N	45:JN:353:ILE:O	2.40	0.54
44:KA:296:PHE:CE2	44:KA:335:ILE:HG21	2.40	0.54
44:KC:11:GLN:OE1	45:KD:246:LEU:HA	2.07	0.54
44:KC:256:GLN:CD	44:KC:257:THR:HG23	2.28	0.54
44:KC:288:VAL:HG11	44:KC:327:ASP:CB	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:67:ASP:OD2	45:KD:69:GLU:HG2	2.07	0.54
44:KE:7:ILE:HG13	44:KE:66:VAL:HG23	1.89	0.54
44:KG:262:TYR:HA	45:KJ:396:HIS:CE1	2.42	0.54
44:KG:284:GLU:HG2	44:KG:286:LEU:H	1.73	0.54
45:KH:350:LYS:HD3	45:KH:351:SER:N	2.22	0.54
44:KI:195:LEU:O	44:KI:266:HIS:NE2	2.39	0.54
44:KK:6:SER:OG	44:KK:65:ALA:HB2	2.08	0.54
44:KM:70:LEU:HD11	44:KM:149:LEU:HD21	1.90	0.54
45:LB:132:GLY:HA3	45:LB:163:ILE:CG2	2.28	0.54
44:LC:296:PHE:HE1	44:LC:335:ILE:HG21	1.73	0.54
45:LD:235:GLY:HA3	45:LD:366:THR:OG1	2.07	0.54
44:LE:398:MET:HE3	45:LF:346:PRO:HD2	1.89	0.54
44:LG:102:ASN:HB3	44:LG:105:ARG:HB2	1.90	0.54
44:LG:175:PRO:HD2	44:LG:207:GLU:OE1	2.08	0.54
44:LI:96:LYS:HA	45:LJ:1:MET:CE	2.37	0.54
45:LL:305:PRO:HB3	45:LL:310:TYR:HE1	1.72	0.54
44:LM:183:GLU:HG2	44:LM:184:PRO:HD3	1.89	0.54
44:LM:377:MET:O	44:LM:378:ILE:HD13	2.08	0.54
44:LM:386:GLU:O	44:LM:389:SER:OG	2.10	0.54
45:LN:68:LEU:HD12	45:LN:97:ALA:HB2	1.89	0.54
45:LN:263:LEU:HG	45:LN:422:TYR:CD1	2.43	0.54
45:LN:311:LEU:CD2	45:LN:372:THR:HG23	2.37	0.54
44:MC:4:VAL:HG12	44:MC:133:GLN:HB2	1.90	0.54
44:MC:243:ARG:HG3	44:MC:244:PHE:CE2	2.43	0.54
45:MD:16:ILE:HD13	45:MD:226:ASN:OD1	2.07	0.54
45:MD:139:LEU:HD13	45:MD:168:SER:HB3	1.90	0.54
45:MD:270:PHE:HD2	45:MD:273:LEU:HD11	1.73	0.54
44:MG:174:SER:HB3	44:MG:175:PRO:HD2	1.89	0.54
44:MK:264:ARG:HH21	44:MK:428:LEU:HB2	1.72	0.54
44:NA:152:LEU:HD23	44:NA:156:ARG:HB2	1.88	0.54
44:NA:276:ILE:HB	44:NA:283:HIS:CE1	2.42	0.54
45:NB:2:ARG:HB2	45:NB:131:GLN:HG3	1.88	0.54
45:NB:318:ARG:HB2	45:NB:364:ALA:O	2.07	0.54
45:NB:374:ILE:HA	45:NB:377:MET:HE2	1.89	0.54
45:ND:5:VAL:HG22	45:ND:6:HIS:N	2.23	0.54
45:ND:143:THR:HG23	48:ND:501:GDP:O1B	2.07	0.54
44:NE:184:PRO:O	44:NE:188:ILE:HG12	2.08	0.54
45:NF:358:PRO:HG2	45:NF:364:ALA:HB3	1.88	0.54
44:NG:294:SER:CA	44:NG:297:GLU:HG3	2.35	0.54
44:NG:407:TRP:CD2	45:NH:255:VAL:HG23	2.43	0.54
45:NH:22:GLU:HG2	45:NH:81:PHE:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:395:LEU:O	45:NH:399:THR:HG23	2.07	0.54
44:NI:60:LYS:HE3	44:OI:282:TYR:CE2	2.43	0.54
44:NI:383:ALA:O	44:NI:386:GLU:HG2	2.07	0.54
45:NJ:103:LYS:O	45:NJ:107:THR:OG1	2.22	0.54
45:NJ:311:LEU:HG	45:NJ:372:THR:HG23	1.90	0.54
45:NJ:320:ARG:NH1	45:NJ:355:ASP:O	2.38	0.54
45:NL:229:VAL:O	45:NL:232:ALA:N	2.40	0.54
44:NM:7:ILE:O	44:NM:137:VAL:HA	2.08	0.54
44:NM:229:ARG:HD2	44:NM:367:ASP:CG	2.27	0.54
44:NM:385:ALA:HB2	44:NM:432:TYR:HD2	1.72	0.54
45:NN:45:GLU:O	45:NN:46:ARG:NE	2.41	0.54
45:NN:46:ARG:O	45:NN:49:VAL:HG13	2.07	0.54
44:OA:29:GLY:O	44:OA:37:PRO:HG2	2.06	0.54
44:OC:294:SER:HA	44:OC:297:GLU:CG	2.38	0.54
45:OD:65:LEU:HB3	45:OD:73:MET:HE1	1.89	0.54
44:OE:210:TYR:CZ	45:OF:324:LYS:HD2	2.42	0.54
45:OF:398:TYR:O	45:OF:403:MET:HB2	2.07	0.54
44:OG:75:ILE:HD12	44:OG:75:ILE:H	1.71	0.54
45:OH:235:GLY:HA2	45:OH:318:ARG:NE	2.22	0.54
44:OI:19:ALA:HB3	44:OI:228:ASN:HB3	1.90	0.54
44:OI:291:ILE:O	44:OI:294:SER:OG	2.23	0.54
45:OJ:319:GLY:CA	45:OJ:357:PRO:HD3	2.36	0.54
44:OK:2:ARG:O	44:OK:51:THR:HA	2.07	0.54
44:OK:34:GLY:O	44:OK:60:LYS:HA	2.07	0.54
44:OK:199:ASP:O	44:OK:266:HIS:HB2	2.07	0.54
44:OK:287:SER:OG	44:OK:290:GLU:HG2	2.08	0.54
45:OL:135:ILE:O	45:OL:166:THR:HA	2.08	0.54
45:OL:186:THR:OG1	45:OL:415:MET:HG3	2.07	0.54
45:OL:202:ILE:HD11	45:OL:268:ILE:CD1	2.37	0.54
45:OL:257:LEU:HG	45:OL:266:PHE:CE1	2.43	0.54
44:OM:191:THR:O	44:OM:195:LEU:N	2.40	0.54
44:OM:335:ILE:O	44:OM:338:LYS:HB2	2.08	0.54
45:ON:322:SER:O	45:ON:325:GLU:HG2	2.08	0.54
45:PD:214:THR:HG22	45:PD:297:LYS:HZ1	1.72	0.54
44:PE:115:VAL:CG2	44:PE:156:ARG:HD2	2.37	0.54
44:PG:11:GLN:CA	44:PG:14:ILE:HD12	2.29	0.54
44:PI:6:SER:OG	44:PI:65:ALA:HA	2.07	0.54
44:PI:413:MET:HE3	44:PI:414:GLU:H	1.73	0.54
45:PJ:3:GLU:OE2	45:PJ:128:ASP:N	2.40	0.54
44:PK:395:PHE:CD1	44:PK:422:ARG:HD3	2.42	0.54
44:PM:199:ASP:O	44:PM:200:VAL:HG23	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:291:ILE:HG13	44:PM:292:THR:N	2.22	0.54
45:PN:403:MET:CE	45:PN:404:ASP:H	2.20	0.54
44:QA:175:PRO:HG2	44:QA:304:LYS:HG3	1.89	0.54
44:QA:267:PHE:HD1	44:QA:432:TYR:HH	1.56	0.54
45:QB:217:LEU:HD11	45:QB:220:PRO:CA	2.32	0.54
44:QE:287:SER:CB	44:QE:290:GLU:HG2	2.37	0.54
45:QF:221:THR:O	45:QF:224:ASP:N	2.38	0.54
45:QF:272:PRO:HD3	45:QF:289:LEU:CD2	2.37	0.54
45:QH:19:LYS:HA	45:QH:22:GLU:HB2	1.89	0.54
45:QH:319:GLY:CA	45:QH:357:PRO:HG3	2.38	0.54
44:QI:209:ILE:O	44:QI:213:CYS:N	2.35	0.54
44:QM:99:ALA:H	44:QM:145:THR:CG2	2.20	0.54
45:QN:222:TYR:C	45:QN:226:ASN:HD22	2.10	0.54
45:RB:135:ILE:HB	45:RB:165:GLU:O	2.06	0.54
44:RC:332:ILE:HD12	44:RC:351:PHE:CD2	2.43	0.54
45:RD:116:VAL:HA	45:RD:119:VAL:HG12	1.88	0.54
44:RE:195:LEU:HD11	44:RE:428:LEU:CD1	2.36	0.54
45:RF:130:LEU:HD21	45:RF:133:PHE:HE1	1.72	0.54
44:RG:313:MET:HE1	44:RG:346:TRP:CH2	2.43	0.54
44:RK:24:PHE:CE1	44:RK:236:SER:HA	2.39	0.54
45:RL:130:LEU:HD21	45:RL:133:PHE:CZ	2.43	0.54
45:RL:151:LEU:O	45:RL:155:VAL:N	2.33	0.54
45:RL:264:HIS:HA	45:RL:266:PHE:CE1	2.43	0.54
44:RM:372:MET:O	44:RM:373:ARG:HG3	2.07	0.54
45:RN:315:ALA:O	45:RN:351:SER:HA	2.07	0.54
44:SA:13:GLY:HA2	44:SA:16:VAL:CG1	2.37	0.54
44:SA:280:LYS:HA	44:SA:283:HIS:CD2	2.32	0.54
44:SA:326:LYS:HE2	45:SB:220:PRO:HD2	1.90	0.54
45:SB:67:ASP:OD2	45:SB:69:GLU:HG3	2.07	0.54
45:SB:148:GLY:O	45:SB:152:ILE:HG12	2.07	0.54
45:SB:311:LEU:HB2	45:SB:370:ASN:O	2.08	0.54
45:SD:52:ASN:OD1	45:SD:53:GLU:N	2.40	0.54
45:SF:303:ALA:N	45:SF:377:MET:HE1	2.20	0.54
44:SG:230:LEU:O	44:SG:233:GLN:HB3	2.07	0.54
44:SI:79:ARG:O	44:SI:84:ARG:HB3	2.08	0.54
45:SL:318:ARG:HG2	45:SL:354:CYS:CB	2.31	0.54
44:SM:384:ILE:O	44:SM:387:VAL:HG22	2.06	0.54
45:SN:102:ALA:HB2	45:SN:403:MET:HE3	1.89	0.54
44:TA:201:ALA:HB3	44:TA:267:PHE:CE2	2.42	0.54
45:TB:112:LEU:HD23	45:TB:112:LEU:O	2.07	0.54
45:TB:139:LEU:HG	45:TB:188:SER:OG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TC:5:ILE:O	44:TC:135:PHE:HA	2.07	0.54
44:TC:12:GLY:HA3	44:TC:140:SER:CB	2.28	0.54
45:TD:333:VAL:HG12	45:TD:333:VAL:O	2.06	0.54
44:TE:22:GLU:HG3	44:TE:83:TYR:HE2	1.69	0.54
44:TE:99:ALA:HA	44:TE:105:ARG:HB3	1.90	0.54
45:TF:19:LYS:O	45:TF:22:GLU:HB2	2.08	0.54
45:TF:97:ALA:CA	45:TF:103:LYS:HD2	2.35	0.54
45:TF:286:VAL:HG22	45:TF:321:MET:CE	2.33	0.54
44:TG:431:ASP:O	44:TG:435:VAL:HG23	2.07	0.54
44:TI:20:CYS:HA	44:TI:232:ALA:CB	2.38	0.54
44:TI:154:LEU:HD13	44:TI:198:THR:OG1	2.07	0.54
44:TI:268:MET:HB2	44:TI:380:ASN:HA	1.90	0.54
45:TJ:327:ASP:O	45:TJ:330:MET:HB3	2.07	0.54
44:TK:1:MET:CE	45:TL:70:PRO:HG2	2.37	0.54
45:TN:7:ILE:HG23	45:TN:66:MET:CE	2.38	0.54
45:TN:113:ILE:O	45:TN:116:VAL:HG12	2.07	0.54
44:UA:208:ALA:HB3	44:UA:302:MET:CE	2.37	0.54
45:UB:30:ILE:HD11	45:UB:36:TYR:HD2	1.71	0.54
45:UB:46:ARG:O	45:UB:49:VAL:HG23	2.07	0.54
45:UB:251:ARG:HH22	44:UC:98:ASP:HB3	1.69	0.54
44:UC:156:ARG:O	44:UC:160:ASP:N	2.38	0.54
44:UC:325:PRO:HG2	45:UD:222:TYR:CZ	2.43	0.54
44:UC:346:TRP:CE2	45:UD:391:ARG:HG3	2.42	0.54
45:UD:97:ALA:O	45:UD:103:LYS:HD2	2.08	0.54
45:UF:322:SER:HB3	44:UG:221:ARG:CZ	2.37	0.54
44:UG:74:VAL:O	44:UG:78:VAL:HG23	2.08	0.54
44:UG:132:LEU:HG	44:UG:132:LEU:O	2.07	0.54
45:UH:4:ILE:HG22	45:UH:132:GLY:H	1.71	0.54
44:UI:247:ALA:HB1	45:UJ:222:TYR:CE2	2.43	0.54
44:UI:354:GLY:O	44:UI:355:ILE:HG13	2.07	0.54
45:UJ:267:MET:HE1	45:UJ:374:ILE:HA	1.89	0.54
45:UJ:352:SER:O	45:UJ:353:ILE:HD13	2.08	0.54
44:UK:88:HIS:CE1	44:UK:90:GLU:HG2	2.43	0.54
44:UK:345:ASP:HB2	44:UK:438:GLU:CG	2.38	0.54
45:UN:183:TYR:O	45:UN:187:LEU:HD12	2.08	0.54
44:VC:205:ASP:OD1	44:VC:303:ALA:HA	2.08	0.54
44:VC:318:MET:SD	44:VC:354:GLY:HA3	2.47	0.54
45:VF:2:ARG:H	45:VF:129:CYS:HB3	1.72	0.54
45:VF:276:ARG:O	45:VF:276:ARG:NE	2.41	0.54
45:VF:345:ILE:HG23	45:VF:345:ILE:O	2.07	0.54
45:VH:242:PHE:CG	45:VH:356:ILE:HG13	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:205:ASP:OD1	44:VI:206:ASN:N	2.40	0.54
45:VJ:239:CYS:SG	45:VJ:248:SER:N	2.76	0.54
44:VK:210:TYR:CE1	44:VK:227:LEU:HD11	2.42	0.54
44:VM:209:ILE:HG22	44:VM:227:LEU:HD22	1.90	0.54
44:WA:53:PHE:HB3	44:WA:61:HIS:HB3	1.89	0.54
44:WA:93:ILE:HD12	44:WA:93:ILE:H	1.72	0.54
44:WC:251:ASP:O	44:WC:254:GLU:N	2.24	0.54
45:WD:22:GLU:HA	45:WD:81:PHE:CE2	2.42	0.54
45:WJ:232:ALA:O	45:WJ:235:GLY:N	2.37	0.54
45:WL:178:THR:HG22	45:WL:180:VAL:HG12	1.90	0.54
45:WL:304:ASP:HB3	45:WL:307:HIS:ND1	2.22	0.54
44:WM:101:ASN:HB3	45:WN:255:VAL:HG11	1.88	0.54
44:WM:286:LEU:O	44:WM:373:ARG:NH2	2.40	0.54
44:WM:288:VAL:HG23	44:WM:291:ILE:HD11	1.89	0.54
45:WN:311:LEU:HD12	45:WN:370:ASN:ND2	2.22	0.54
5:1D:171:LEU:CD2	44:EG:79:ARG:HB2	2.37	0.54
8:1G:178:LYS:NZ	44:LA:329:ASN:HB2	2.23	0.54
20:1J:84:SER:HG	45:IF:219:THR:HG1	1.52	0.54
15:2V:38:PHE:CD1	45:MF:328:GLU:HB3	2.42	0.54
14:3U:193:LYS:HE2	45:WN:79:GLY:HA2	1.89	0.54
28:4C:235:ARG:CZ	45:JN:56:GLY:HA3	2.36	0.54
35:4R:106:ASN:OD1	45:BH:279:GLN:NE2	2.41	0.54
16:4X:45:GLN:HB3	44:KI:58:ALA:CB	2.36	0.54
37:5B:122:ASN:O	45:NH:223:GLY:HA3	2.06	0.54
38:5E:93:PHE:CE2	45:KB:261:PRO:HG2	2.43	0.54
38:5G:28:SER:OG	38:5G:29:LYS:N	2.40	0.54
38:5G:96:TYR:HA	38:5G:97:ARG:HG3	1.90	0.54
38:5G:200:LEU:HD22	38:5G:203:PHE:CE2	2.42	0.54
38:5H:113:LEU:HD21	44:NM:84:ARG:CZ	2.37	0.54
39:5I:86:LYS:NZ	44:NA:309:HIS:HA	2.23	0.54
35:5R:396:ASP:OD1	45:EJ:218:THR:OG1	2.24	0.54
35:5R:556:ILE:HG22	35:5R:564:ILE:HG21	1.90	0.54
36:5S:128:LEU:CD2	36:5S:135:ILE:HG12	2.38	0.54
35:6R:300:PHE:HB3	45:CN:77:ARG:CZ	2.38	0.54
35:7R:215:LEU:HA	35:7R:218:ILE:CG1	2.35	0.54
35:7R:222:PRO:C	35:7R:224:ASN:H	2.10	0.54
35:7R:408:ALA:HA	45:EB:218:THR:OG1	2.08	0.54
45:AB:226:ASN:ND2	48:AB:502:GDP:HN1	2.04	0.54
44:AC:425:LEU:O	44:AC:428:LEU:HB3	2.08	0.54
45:AF:3:GLU:CD	45:AF:127:CYS:HB2	2.28	0.54
44:AG:254:GLU:CD	45:AJ:98:GLY:HA2	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:402:ARG:O	44:AG:405:VAL:HG22	2.08	0.54
45:AJ:278:SER:HA	45:AJ:281:TYR:CE2	2.42	0.54
44:AK:97:GLU:CG	44:AK:105:ARG:HH22	2.21	0.54
44:AM:104:ALA:HB1	44:AM:411:GLU:HB2	1.90	0.54
44:AM:141:VAL:HG12	44:AM:172:TYR:HA	1.88	0.54
45:AN:283:ALA:O	45:AN:288:GLU:HG3	2.07	0.54
44:BA:213:CYS:HB3	44:BA:219:ILE:HB	1.89	0.54
44:BA:294:SER:HA	44:BA:297:GLU:CD	2.28	0.54
44:BA:431:ASP:O	44:BA:435:VAL:HG23	2.07	0.54
45:BD:10:GLY:HA2	45:BD:143:THR:CG2	2.38	0.54
45:BF:51:TYR:CE1	45:BF:61:PRO:HG3	2.41	0.54
45:BF:180:VAL:HG22	45:BF:183:TYR:HB2	1.88	0.54
45:BF:359:LYS:O	45:BF:359:LYS:HD2	2.08	0.54
44:BG:53:PHE:C	44:BG:64:ARG:HH21	2.10	0.54
44:BG:229:ARG:HB2	44:BG:229:ARG:CZ	2.38	0.54
44:BI:175:PRO:HB2	44:BI:176:GLN:OE1	2.07	0.54
44:BI:408:TYR:HD2	44:BI:418:PHE:HZ	1.56	0.54
45:BJ:86:ARG:NH2	45:BJ:89:ASN:HB2	2.23	0.54
44:BK:93:ILE:HD12	44:BK:93:ILE:H	1.72	0.54
45:BL:3:GLU:CG	45:BL:127:CYS:HB2	2.38	0.54
45:BN:374:ILE:HD11	45:BN:422:TYR:CZ	2.43	0.54
44:CA:271:SER:HB2	44:CA:377:MET:SD	2.47	0.54
44:CA:311:LYS:HG2	44:CA:344:VAL:CG2	2.37	0.54
45:CB:83:GLN:OE1	45:CB:83:GLN:HA	2.08	0.54
45:CB:390:ARG:O	45:CB:392:LYS:NZ	2.41	0.54
45:CD:117:LEU:HD21	45:CD:121:ARG:HH22	1.72	0.54
45:CD:252:LYS:HZ3	45:CD:350:LYS:NZ	2.04	0.54
44:CE:14:ILE:HD11	44:CE:69:ASP:HB2	1.89	0.54
44:CE:70:LEU:HD12	44:CE:99:ALA:HB2	1.89	0.54
45:CF:259:PRO:HA	44:CG:404:PHE:CZ	2.42	0.54
45:CH:101:TRP:CZ2	45:CH:187:LEU:HB3	2.42	0.54
45:CH:178:THR:HG22	45:CH:180:VAL:N	2.18	0.54
44:CI:104:ALA:HB1	44:CI:411:GLU:HB2	1.89	0.54
44:CK:428:LEU:HG	44:CK:432:TYR:CE2	2.43	0.54
45:CL:102:ALA:CB	45:CL:403:MET:HG3	2.37	0.54
45:CL:116:VAL:O	45:CL:119:VAL:HG12	2.08	0.54
45:CL:177:ASP:HB2	48:CL:501:GDP:O3'	2.07	0.54
45:CL:214:THR:HB	45:CL:273:LEU:CB	2.36	0.54
44:CM:20:CYS:HA	44:CM:232:ALA:HB1	1.90	0.54
44:CM:151:SER:HB3	44:CM:193:SER:HB3	1.90	0.54
44:CM:265:ILE:HG12	44:CM:432:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:408:TYR:HB3	44:CM:413:MET:HE3	1.90	0.54
45:CN:3:GLU:OE2	45:CN:127:CYS:HB2	2.07	0.54
45:CN:97:ALA:HB3	45:CN:143:THR:HB	1.89	0.54
44:DA:253:THR:HG23	45:DB:98:GLY:CA	2.38	0.54
45:DB:65:LEU:HD11	45:DB:85:PHE:CD2	2.43	0.54
45:DB:86:ARG:HG3	45:DB:89:ASN:N	2.23	0.54
45:DB:156:ARG:NH1	45:DB:157:GLU:HB2	2.23	0.54
44:DC:64:ARG:NH2	44:DC:128:ASN:OD1	2.35	0.54
44:DC:132:LEU:HD11	44:DC:135:PHE:CZ	2.43	0.54
45:DF:238:CYS:HB2	45:DF:318:ARG:NH2	2.23	0.54
44:DG:2:ARG:O	44:DG:3:GLU:HG3	2.07	0.54
44:DG:103:PHE:CE1	44:DG:148:GLY:HA2	2.43	0.54
44:DG:132:LEU:HD11	44:DG:164:LYS:CG	2.34	0.54
44:DG:256:GLN:HB2	44:DG:260:VAL:HB	1.88	0.54
45:DH:317:PHE:HB3	45:DH:321:MET:HE1	1.89	0.54
45:DJ:199:CYS:O	45:DJ:266:PHE:N	2.25	0.54
45:DJ:207:LEU:HB3	45:DJ:225:LEU:HD22	1.88	0.54
45:DL:163:ILE:O	45:DL:164:MET:HE2	2.08	0.54
45:DL:257:LEU:HB3	45:DL:266:PHE:CE2	2.43	0.54
45:DL:259:PRO:HA	44:DM:404:PHE:CE1	2.43	0.54
44:DM:319:TYR:CE2	44:DM:375:VAL:HG23	2.42	0.54
45:DN:31:ASP:HB3	45:DN:32:PRO:CD	2.38	0.54
44:EA:254:GLU:OE1	45:EB:99:ASN:ND2	2.41	0.54
45:EB:54:ALA:HA	45:FB:283:ALA:CB	2.38	0.54
45:EB:248:SER:HA	45:EB:252:LYS:CE	2.38	0.54
44:EC:242:LEU:CD2	44:EC:251:ASP:HA	2.32	0.54
45:ED:419:VAL:O	45:ED:423:GLN:N	2.37	0.54
44:EE:22:GLU:HG3	44:EE:83:TYR:CE2	2.43	0.54
45:EF:4:ILE:HG22	45:EF:132:GLY:N	2.21	0.54
45:EF:70:PRO:O	45:EF:74:ASP:HB2	2.08	0.54
45:EF:163:ILE:HG21	45:EF:251:ARG:HD3	1.90	0.54
44:EG:12:GLY:O	44:EG:16:VAL:HG22	2.07	0.54
44:EG:417:GLU:HA	44:EG:420:GLU:OE2	2.07	0.54
45:EH:192:LEU:HG	45:EH:196:ALA:HB2	1.88	0.54
45:EJ:270:PHE:CE2	45:EJ:273:LEU:HD21	2.42	0.54
44:EK:401:LYS:O	44:EK:402:ARG:HG2	2.07	0.54
45:EL:287:PRO:O	45:EL:290:THR:HG22	2.07	0.54
44:EM:275:ILE:HG23	44:EM:368:LEU:CD2	2.37	0.54
45:EN:16:ILE:HD12	45:EN:229:VAL:CG1	2.38	0.54
45:EN:73:MET:SD	45:EN:92:PHE:HB3	2.48	0.54
45:EN:204:ASN:HA	45:EN:207:LEU:CD1	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:253:LEU:O	45:EN:257:LEU:HB2	2.07	0.54
44:FA:323:VAL:HG23	44:FA:327:ASP:CB	2.37	0.54
44:FA:328:VAL:O	44:FA:331:SER:OG	2.14	0.54
45:FB:287:PRO:HG3	45:FB:329:GLN:NE2	2.23	0.54
44:FC:70:LEU:HD12	44:FC:145:THR:OG1	2.08	0.54
44:FC:221:ARG:HG3	44:FC:221:ARG:O	2.06	0.54
44:FC:221:ARG:HG3	45:FD:322:SER:OG	2.07	0.54
44:FC:261:PRO:HG2	44:FC:313:MET:CE	2.38	0.54
44:FC:348:PRO:HB2	45:FF:384:GLN:NE2	2.22	0.54
44:FE:394:LYS:CE	45:FF:346:PRO:HG2	2.38	0.54
45:FH:89:ASN:HB3	45:FH:90:PHE:CD2	2.42	0.54
45:FH:135:ILE:N	45:FH:165:GLU:O	2.32	0.54
44:FI:284:GLU:HG3	44:FI:286:LEU:HD12	1.87	0.54
45:FJ:232:ALA:HB1	45:FJ:268:ILE:HD12	1.90	0.54
45:FJ:390:ARG:NH1	45:FJ:391:ARG:HD3	2.23	0.54
44:FK:11:GLN:HB3	46:FK:501:GTP:PB	2.47	0.54
44:FK:69:ASP:OD1	44:FK:71:GLU:N	2.31	0.54
44:FK:195:LEU:O	44:FK:266:HIS:NE2	2.39	0.54
45:FL:183:TYR:HE2	45:FL:394:PHE:HB2	1.72	0.54
44:FM:106:GLY:HA3	44:FM:144:GLY:O	2.07	0.54
45:FN:220:PRO:HA	45:FN:224:ASP:OD2	2.08	0.54
44:GA:54:SER:HB3	44:GA:64:ARG:NH2	2.22	0.54
44:GC:165:SER:HA	44:GC:199:ASP:OD2	2.06	0.54
44:GE:288:VAL:O	44:GE:291:ILE:HG12	2.08	0.54
45:GJ:65:LEU:HD22	45:GJ:90:PHE:CE1	2.42	0.54
45:GJ:375:GLN:HG3	45:GJ:376:GLU:N	2.23	0.54
44:GK:253:THR:HG22	44:GK:257:THR:CB	2.37	0.54
44:GK:258:ASN:N	45:GN:179:VAL:HG21	2.22	0.54
44:GK:348:PRO:CD	45:GN:387:ALA:HB1	2.37	0.54
45:GL:330:MET:SD	45:GL:349:ILE:HG21	2.47	0.54
45:GN:317:PHE:HB2	45:GN:353:ILE:HG13	1.88	0.54
44:HA:167:LEU:HD13	44:HA:200:VAL:HB	1.88	0.54
44:HA:215:ARG:NH2	44:HA:299:ALA:HB1	2.23	0.54
44:HA:273:ALA:O	44:HA:375:VAL:N	2.29	0.54
45:HB:178:THR:HB	45:HB:181:GLU:CG	2.20	0.54
44:HI:2:ARG:HB2	44:HI:133:GLN:NE2	2.23	0.54
45:HJ:42:LEU:HD13	45:HJ:45:GLU:OE2	2.08	0.54
45:HJ:254:ALA:HA	45:HJ:258:ILE:CD1	2.38	0.54
44:HM:234:VAL:HG13	44:HM:376:CYS:SG	2.48	0.54
44:HM:413:MET:HE3	44:HM:417:GLU:HG3	1.89	0.54
44:IA:221:ARG:HH11	45:IB:325:GLU:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:394:LYS:HB3	44:IA:398:MET:CE	2.38	0.54
45:IB:133:PHE:O	45:IB:164:MET:HA	2.08	0.54
44:IE:98:ASP:OD1	44:IE:99:ALA:N	2.41	0.54
44:IE:189:LEU:HD11	44:IE:418:PHE:HE1	1.71	0.54
44:IE:326:LYS:HD3	45:IH:212:PHE:CZ	2.42	0.54
45:IH:372:THR:HA	45:IH:422:TYR:CZ	2.41	0.54
45:IJ:72:THR:HG23	45:IJ:73:MET:CE	2.37	0.54
45:IJ:133:PHE:CE2	45:IJ:155:VAL:HG11	2.43	0.54
45:IL:318:ARG:HD3	45:IL:358:PRO:HD3	1.88	0.54
44:IM:271:SER:HB2	44:IM:377:MET:CE	2.37	0.54
45:IN:45:GLU:C	45:IN:46:ARG:HD2	2.28	0.54
44:JA:210:TYR:HE1	44:JA:227:LEU:HD11	1.73	0.54
44:JC:260:VAL:CG2	44:JC:266:HIS:HB3	2.37	0.54
45:JF:7:ILE:HB	45:JF:135:ILE:CD1	2.34	0.54
45:JF:279:GLN:CG	45:JF:280:GLN:HG2	2.37	0.54
44:JG:68:LEU:HD21	44:JG:118:CYS:SG	2.47	0.54
44:JI:352:LYS:HG2	45:JL:177:ASP:O	2.07	0.54
44:JK:31:GLN:HE22	44:JK:37:PRO:HD3	1.73	0.54
44:JK:141:VAL:HG23	44:JK:190:SER:CB	2.37	0.54
44:JM:72:PRO:HG2	45:JN:2:ARG:NH1	2.22	0.54
45:JN:311:LEU:HD11	45:JN:372:THR:HG23	1.88	0.54
45:KD:117:LEU:HD12	45:KD:120:VAL:HG11	1.90	0.54
44:KG:253:THR:O	44:KG:257:THR:HG23	2.08	0.54
44:KG:356:ASN:OD1	44:KG:357:TYR:N	2.39	0.54
45:KJ:338:SER:O	45:KJ:341:PHE:N	2.31	0.54
44:KK:258:ASN:O	45:KN:179:VAL:HG11	2.08	0.54
45:KL:49:VAL:HG11	45:KL:241:ARG:CD	2.37	0.54
45:KL:193:VAL:HA	45:KL:264:HIS:CE1	2.43	0.54
44:KM:355:ILE:HG13	44:KM:355:ILE:O	2.07	0.54
45:KN:107:THR:HG23	45:KN:401:GLU:HG3	1.88	0.54
45:LB:31:ASP:OD2	45:LB:35:THR:HB	2.07	0.54
45:LB:101:TRP:HB3	45:LB:398:TYR:CE2	2.36	0.54
44:LC:63:PRO:HD3	44:LC:86:LEU:HG	1.89	0.54
44:LE:67:PHE:HB2	44:LE:92:LEU:HD22	1.89	0.54
44:LE:183:GLU:HG2	44:LE:184:PRO:CD	2.38	0.54
44:LE:256:GLN:O	45:LH:397:TRP:NE1	2.40	0.54
44:LE:261:PRO:HG3	45:LH:394:PHE:CE1	2.42	0.54
44:LG:42:ILE:HG13	44:LG:43:GLY:H	1.72	0.54
44:LG:68:LEU:HD11	44:LG:118:CYS:SG	2.48	0.54
45:LJ:187:LEU:HD11	45:LJ:408:PHE:CE1	2.43	0.54
45:LL:7:ILE:CG1	45:LL:151:LEU:HD21	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:21:TRP:HA	45:LL:24:ILE:CG2	2.38	0.54
44:LM:25:CYS:HG	44:LM:53:PHE:HZ	1.56	0.54
44:LM:183:GLU:N	44:LM:184:PRO:HD2	2.22	0.54
44:LM:320:ARG:CG	44:LM:374:ALA:HB3	2.37	0.54
45:LN:294:PHE:CD1	45:LN:333:VAL:HG21	2.42	0.54
45:MB:269:GLY:O	45:MB:366:THR:HG23	2.06	0.54
45:MB:308:GLY:H	45:MB:373:ALA:HB2	1.71	0.54
44:MC:112:LYS:NZ	44:MC:152:LEU:HD22	2.22	0.54
45:MD:52:ASN:HB2	45:MD:60:VAL:HG13	1.90	0.54
45:MD:342:VAL:HG13	45:MD:345:ILE:HG22	1.89	0.54
44:ME:17:GLY:HA2	44:ME:20:CYS:SG	2.48	0.54
44:ME:30:ILE:HD13	44:ME:36:MET:CE	2.37	0.54
45:MF:267:MET:HB2	45:MF:301:CYS:SG	2.47	0.54
44:MG:407:TRP:CE3	45:MH:255:VAL:HA	2.43	0.54
45:MH:16:ILE:HD11	48:MH:501:GDP:N2	2.23	0.54
45:MJ:157:GLU:OE2	45:MJ:157:GLU:HA	2.07	0.54
45:ML:360:GLY:C	45:ML:361:LEU:HD22	2.27	0.54
44:MM:258:ASN:O	44:MM:259:LEU:HD23	2.07	0.54
44:NA:242:LEU:HD21	44:NA:252:ILE:H	1.72	0.54
44:NA:270:SER:HB2	44:NA:378:ILE:CD1	2.38	0.54
45:NB:7:ILE:HD13	45:NB:64:ILE:HB	1.90	0.54
45:NB:47:ILE:HG23	45:NB:51:TYR:CD1	2.43	0.54
45:NB:330:MET:O	45:NB:333:VAL:HG12	2.08	0.54
44:NC:60:LYS:HD2	44:OC:282:TYR:CZ	2.42	0.54
45:NF:16:ILE:HG13	45:NF:17:GLY:N	2.23	0.54
45:NF:130:LEU:CD2	45:NF:162:ARG:HG2	2.38	0.54
44:NG:384:ILE:O	44:NG:387:VAL:HG22	2.07	0.54
45:NH:202:ILE:HD11	45:NH:268:ILE:CG1	2.33	0.54
45:NH:228:LEU:HD23	45:NH:300:MET:HE1	1.90	0.54
45:NH:263:LEU:HD21	45:NH:422:TYR:HD1	1.72	0.54
45:NH:372:THR:HA	45:NH:422:TYR:OH	2.07	0.54
45:NJ:304:ASP:OD1	45:NJ:305:PRO:HD2	2.08	0.54
45:NJ:325:GLU:CA	45:NJ:328:GLU:HG2	2.32	0.54
44:NM:25:CYS:CB	44:NM:30:ILE:HB	2.37	0.54
44:NM:372:MET:CE	44:NM:372:MET:HA	2.38	0.54
44:OA:56:THR:HA	44:PA:285:GLN:HE22	1.73	0.54
44:OA:195:LEU:HD13	44:OA:428:LEU:HD22	1.89	0.54
44:OA:312:TYR:O	44:OA:344:VAL:N	2.29	0.54
44:OA:371:VAL:HG12	44:OA:372:MET:H	1.72	0.54
45:OB:60:VAL:HG23	45:OB:84:LEU:O	2.07	0.54
45:OB:103:LYS:HG3	45:OB:107:THR:OG1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:124:ALA:O	45:OD:127:CYS:N	2.40	0.54
44:OE:292:THR:O	44:OE:295:ALA:HB3	2.06	0.54
45:OF:178:THR:CB	45:OF:181:GLU:HG3	2.30	0.54
45:OF:242:PHE:CZ	45:OF:356:ILE:HG21	2.43	0.54
45:OF:318:ARG:HH11	45:OF:358:PRO:HG3	1.73	0.54
44:OG:208:ALA:HB2	44:OG:304:LYS:HZ2	1.72	0.54
45:OH:164:MET:HE3	45:OH:165:GLU:H	1.72	0.54
44:OI:258:ASN:C	44:OI:259:LEU:HD22	2.28	0.54
45:OJ:286:VAL:HG21	45:OJ:325:GLU:OE2	2.07	0.54
44:OK:188:ILE:HD11	44:OK:425:LEU:HG	1.88	0.54
45:ON:117:LEU:O	45:ON:121:ARG:HG2	2.07	0.54
44:PA:123:ARG:O	44:PA:126:ALA:HB3	2.07	0.54
45:PB:173:PRO:CG	45:PB:380:ARG:HD3	2.38	0.54
44:PC:191:THR:HA	44:PC:194:LEU:CG	2.38	0.54
44:PC:216:ASN:HB3	44:PC:275:ILE:O	2.07	0.54
45:PD:67:ASP:OD1	45:PD:68:LEU:N	2.36	0.54
45:PD:130:LEU:HD23	45:PD:130:LEU:C	2.28	0.54
45:PD:357:PRO:HB2	45:PD:358:PRO:HD2	1.88	0.54
44:PE:68:LEU:HD21	44:PE:118:CYS:SG	2.47	0.54
44:PK:325:PRO:CG	45:PN:222:TYR:HE2	2.11	0.54
45:PL:177:ASP:HB2	48:PL:501:GDP:O3'	2.07	0.54
44:PM:14:ILE:HD13	44:PM:75:ILE:HD11	1.90	0.54
44:PM:23:LEU:CD2	44:PM:233:GLN:HA	2.38	0.54
44:PM:25:CYS:HB3	44:PM:30:ILE:O	2.08	0.54
45:PN:387:ALA:O	45:PN:390:ARG:HG2	2.07	0.54
44:QA:31:GLN:HE22	44:QA:36:MET:CA	2.19	0.54
45:QB:222:TYR:O	45:QB:225:LEU:HB2	2.07	0.54
44:QC:200:VAL:HG13	44:QC:268:MET:CE	2.38	0.54
44:QC:268:MET:HB2	44:QC:379:SER:O	2.07	0.54
44:QC:268:MET:HB3	44:QC:380:ASN:OD1	2.08	0.54
44:QE:269:LEU:N	44:QE:379:SER:O	2.40	0.54
45:QF:190:HIS:CG	45:QF:411:ALA:HA	2.42	0.54
45:QF:350:LYS:HD2	44:QG:180:ALA:HA	1.90	0.54
44:QG:141:VAL:HG11	44:QG:172:TYR:CD1	2.42	0.54
44:QG:252:ILE:HD12	44:QG:255:PHE:HE2	1.73	0.54
44:QI:207:GLU:OE2	44:QI:304:LYS:HE2	2.07	0.54
44:QI:210:TYR:CE1	44:QI:227:LEU:HD21	2.42	0.54
44:QI:276:ILE:HG23	44:QI:281:ALA:CB	2.37	0.54
44:QI:301:MET:HA	44:QI:301:MET:HE2	1.89	0.54
45:QJ:265:PHE:HE2	45:QJ:418:LEU:HD21	1.71	0.54
45:QJ:342:VAL:HG12	45:QJ:343:GLU:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:415:MET:HE1	45:QJ:418:LEU:HD23	1.89	0.54
44:QM:321:GLY:N	44:QM:356:ASN:O	2.41	0.54
44:RA:248:LEU:CD1	44:RA:353:VAL:HG13	2.36	0.54
45:RB:231:ALA:O	45:RB:235:GLY:N	2.41	0.54
45:RB:318:ARG:HB2	45:RB:364:ALA:HB3	1.90	0.54
45:RD:99:ASN:CA	45:RD:142:GLY:HA3	2.37	0.54
45:RH:406:MET:O	45:RH:409:THR:HB	2.08	0.54
45:RJ:377:MET:O	45:RJ:380:ARG:HG2	2.08	0.54
44:RK:346:TRP:CD1	45:RL:391:ARG:HG3	2.43	0.54
45:RL:54:ALA:CB	45:SL:283:ALA:HB2	2.37	0.54
45:RL:267:MET:CE	45:RL:371:SER:H	2.20	0.54
45:RL:271:ALA:O	45:RL:364:ALA:HB1	2.06	0.54
44:RM:135:PHE:HB2	44:RM:166:LYS:HG2	1.89	0.54
44:RM:223:THR:HG23	44:RM:225:THR:HG23	1.89	0.54
45:RN:287:PRO:HA	45:RN:290:THR:CG2	2.36	0.54
44:SA:213:CYS:HA	44:SA:217:LEU:HB2	1.88	0.54
44:SA:426:ALA:CA	44:SA:429:GLU:HB2	2.28	0.54
45:SB:317:PHE:O	45:SB:353:ILE:HA	2.07	0.54
44:SC:313:MET:HE2	44:SC:381:SER:HA	1.89	0.54
44:SE:88:HIS:H	44:SE:91:GLN:NE2	2.05	0.54
44:SE:104:ALA:H	44:SE:408:TYR:HE2	1.56	0.54
45:SF:2:ARG:CZ	45:SF:240:LEU:HG	2.38	0.54
45:SF:15:GLN:OE1	45:SF:15:GLN:HA	2.07	0.54
45:SF:258:ILE:HG13	45:SF:266:PHE:CZ	2.32	0.54
44:SG:168:GLY:O	44:SG:201:ALA:HA	2.07	0.54
44:SI:174:SER:HB3	44:SI:207:GLU:HB2	1.90	0.54
44:SI:218:ASP:O	44:SI:219:ILE:HD13	2.08	0.54
45:SJ:73:MET:HA	45:SJ:76:VAL:HG22	1.90	0.54
45:SJ:131:GLN:HE22	45:SJ:250:LEU:HB2	1.70	0.54
45:SJ:209:ASP:O	45:SJ:213:ARG:HB2	2.07	0.54
44:SK:71:GLU:O	44:SK:74:VAL:HG22	2.08	0.54
45:SL:170:VAL:CG2	45:SL:171:PRO:HD2	2.38	0.54
45:SL:178:THR:HB	45:SL:181:GLU:CG	2.27	0.54
45:SL:187:LEU:HD11	45:SL:408:PHE:CE1	2.43	0.54
45:SL:257:LEU:CD2	45:SL:368:VAL:HG23	2.37	0.54
44:TA:158:SER:O	44:TA:162:GLY:HA2	2.07	0.54
45:TB:213:ARG:NH2	45:TB:214:THR:HA	2.22	0.54
45:TB:387:ALA:HA	45:TB:390:ARG:HG2	1.89	0.54
45:TB:399:THR:HG22	45:TB:403:MET:HE3	1.90	0.54
45:TD:15:GLN:HA	45:TD:15:GLN:OE1	2.06	0.54
44:TE:103:PHE:H	44:TE:408:TYR:HE2	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:168:SER:N	45:TF:200:MET:O	2.38	0.54
45:TF:229:VAL:HG12	45:TF:233:MET:HE2	1.90	0.54
45:TH:186:THR:HG23	45:TH:415:MET:SD	2.47	0.54
44:TI:201:ALA:O	44:TI:267:PHE:HA	2.07	0.54
44:TI:258:ASN:OD1	44:TI:352:LYS:HG2	2.08	0.54
44:TK:185:TYR:OH	44:TK:398:MET:HB3	2.08	0.54
44:TK:276:ILE:CD1	44:TK:281:ALA:HA	2.38	0.54
44:TM:13:GLY:CA	44:TM:16:VAL:HG12	2.37	0.54
44:TM:14:ILE:HG22	44:TM:18:ASN:ND2	2.23	0.54
44:TM:65:ALA:HB3	44:TM:87:PHE:HE1	1.72	0.54
45:TN:178:THR:HB	45:TN:181:GLU:CD	2.28	0.54
45:TN:398:TYR:HB3	45:TN:403:MET:SD	2.48	0.54
45:TN:420:SER:O	45:TN:424:GLN:HB2	2.07	0.54
44:UA:296:PHE:HE2	44:UA:335:ILE:HG13	1.72	0.54
45:UB:257:LEU:HA	45:UB:312:THR:HG21	1.90	0.54
45:UD:133:PHE:HB2	45:UD:164:MET:SD	2.48	0.54
45:UD:313:ALA:HB1	45:UD:367:PHE:CE1	2.43	0.54
45:UD:318:ARG:HD3	45:UD:358:PRO:HD3	1.89	0.54
44:UE:70:LEU:HD12	44:UE:145:THR:OG1	2.08	0.54
44:UE:256:GLN:O	45:UF:397:TRP:HH2	1.91	0.54
45:UF:313:ALA:HB1	45:UF:367:PHE:HE1	1.71	0.54
44:UG:328:VAL:HG12	44:UG:332:ILE:HG12	1.90	0.54
44:UG:402:ARG:HB3	44:UG:405:VAL:CG2	2.32	0.54
45:UH:178:THR:HG22	45:UH:179:VAL:H	1.73	0.54
45:UH:234:SER:O	45:UH:241:ARG:NH2	2.41	0.54
44:UI:257:THR:HA	45:UJ:397:TRP:HH2	1.68	0.54
45:UJ:285:THR:HG23	45:UJ:287:PRO:HD2	1.89	0.54
44:UK:21:TRP:CZ2	44:UK:65:ALA:HB2	2.43	0.54
44:UK:213:CYS:HA	44:UK:217:LEU:HD12	1.89	0.54
45:UL:51:TYR:CE1	45:UL:61:PRO:HG3	2.42	0.54
45:UL:173:PRO:HD3	45:UL:380:ARG:NH1	2.21	0.54
44:VA:1:MET:O	44:VA:131:GLY:HA3	2.07	0.54
44:VA:189:LEU:HD11	44:VA:418:PHE:CD1	2.42	0.54
44:VA:256:GLN:O	45:VD:397:TRP:NE1	2.41	0.54
44:VA:276:ILE:CD1	44:VA:281:ALA:HA	2.37	0.54
45:VB:229:VAL:HG12	45:VB:233:MET:HE1	1.90	0.54
45:VB:273:LEU:HG	45:VB:292:GLN:HE22	1.73	0.54
45:VB:273:LEU:N	45:VB:292:GLN:HE22	2.06	0.54
44:VC:181:VAL:HG22	45:VD:256:ASN:HB3	1.90	0.54
45:VD:51:TYR:HE2	45:VD:60:VAL:C	2.11	0.54
45:VD:54:ALA:HA	45:WD:283:ALA:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:222:PRO:HG2	45:VF:324:LYS:HD3	1.90	0.54
44:VE:287:SER:O	44:VE:290:GLU:HG2	2.07	0.54
45:VF:251:ARG:O	45:VF:255:VAL:HG23	2.07	0.54
44:VG:88:HIS:ND1	44:VG:89:PRO:HD2	2.22	0.54
44:VG:262:TYR:HE2	44:VG:435:VAL:HG22	1.72	0.54
44:VI:221:ARG:HA	45:VJ:324:LYS:HE2	1.90	0.54
45:VJ:68:LEU:HD23	45:VJ:97:ALA:N	2.22	0.54
45:VJ:390:ARG:O	45:VJ:392:LYS:NZ	2.40	0.54
44:VK:268:MET:HB3	44:VK:380:ASN:HB3	1.89	0.54
45:VL:216:LYS:HB2	45:VL:275:SER:HB3	1.90	0.54
44:VM:269:LEU:HB2	44:VM:301:MET:HE1	1.89	0.54
45:VN:371:SER:O	45:VN:422:TYR:OH	2.25	0.54
45:WB:136:THR:HA	45:WB:167:PHE:HB2	1.90	0.54
44:WC:3:GLU:O	44:WC:132:LEU:HA	2.07	0.54
44:WC:101:ASN:HA	44:WC:144:GLY:HA3	1.90	0.54
44:WC:319:TYR:CE2	44:WC:328:VAL:HG22	2.42	0.54
45:WF:130:LEU:HB3	45:WF:162:ARG:NH1	2.23	0.54
45:WF:285:THR:HG23	45:WF:285:THR:O	2.06	0.54
44:WG:213:CYS:SG	44:WG:217:LEU:HD12	2.48	0.54
44:WG:223:THR:O	44:WG:227:LEU:HG	2.08	0.54
44:WG:269:LEU:H	44:WG:269:LEU:HD23	1.71	0.54
45:WN:266:PHE:CE1	45:WN:370:ASN:HB2	2.43	0.54
7:0F:31:HIS:HA	44:DE:84:ARG:HH21	1.72	0.54
7:0F:142:GLY:O	44:FC:79:ARG:NE	2.39	0.54
19:1I:23:ILE:HB	45:ID:48:ASN:HD21	1.72	0.54
20:1J:125:ARG:HH11	44:IE:280:LYS:HZ1	1.52	0.54
20:1J:171:TYR:CE1	45:HH:57:GLY:HA2	2.43	0.54
20:1J:198:ARG:CD	44:IG:370:LYS:HB2	2.37	0.54
15:1V:69:SER:O	45:LJ:121:ARG:HD3	2.07	0.54
32:2I:142:LEU:HD11	45:GD:297:LYS:CE	2.33	0.54
22:2L:645:ASP:HB2	45:CL:362:LYS:CE	2.38	0.54
11:2Q:53:ASN:HD21	44:AE:400:ALA:HA	1.70	0.54
27:2W:234:GLN:OE1	45:KN:56:GLY:N	2.30	0.54
6:3E:46:ASP:OD2	35:6R:380:ARG:C	2.15	0.54
24:3O:420:ILE:CG2	44:TG:58:ALA:HB2	2.38	0.54
37:5D:57:PRO:HB2	45:KN:387:ALA:HB3	1.88	0.54
11:5Q:56:THR:HG21	44:AK:396:ASP:OD1	2.07	0.54
11:5Q:121:MET:CE	11:5Q:122:PRO:HD2	2.37	0.54
35:5R:93:LEU:HD11	35:5R:190:PHE:CE2	2.43	0.54
36:5S:163:LYS:HA	36:5S:166:GLN:NE2	2.22	0.54
41:6G:212:ASN:HA	45:VF:209:ASP:OD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:242:ASN:HD21	44:CM:373:ARG:NH2	2.05	0.54
44:AA:11:GLN:HG3	44:AA:74:VAL:HG21	1.89	0.54
44:AA:261:PRO:HG2	44:AA:313:MET:CE	2.38	0.54
44:AA:326:LYS:HD3	45:AD:220:PRO:HD3	1.89	0.54
45:AB:377:MET:HA	45:AB:380:ARG:CG	2.36	0.54
44:AC:174:SER:HB2	44:AC:177:VAL:O	2.07	0.54
45:AF:2:ARG:NH2	45:AF:240:LEU:HD12	2.23	0.54
44:AG:24:PHE:CZ	44:AG:235:ILE:HG22	2.43	0.54
44:AG:271:SER:HG	44:AG:301:MET:HA	1.70	0.54
44:AG:306:ASP:OD1	44:AG:308:ARG:NH1	2.40	0.54
44:AG:398:MET:HE2	45:AH:345:ILE:HG13	1.89	0.54
44:AI:328:VAL:HG21	44:AI:355:ILE:HD11	1.87	0.54
45:AJ:83:GLN:O	45:AJ:83:GLN:HG3	2.07	0.54
44:AK:280:LYS:NZ	44:MK:90:GLU:HB3	2.22	0.54
45:AL:26:ASP:HB3	45:AL:359:LYS:NZ	2.21	0.54
44:AM:128:ASN:OD1	44:BM:285:GLN:NE2	2.41	0.54
44:AM:135:PHE:HD2	44:AM:166:LYS:HG2	1.72	0.54
45:AN:87:PRO:HA	45:AN:90:PHE:HD2	1.73	0.54
45:AN:105:HIS:CD2	45:AN:150:LEU:HD12	2.42	0.54
45:AN:382:ALA:HA	45:AN:415:MET:HE1	1.90	0.54
44:BA:237:SER:HA	44:BA:320:ARG:NH1	2.22	0.54
44:BA:323:VAL:CG1	44:BA:355:ILE:HG23	2.38	0.54
45:BF:183:TYR:CE1	45:BF:388:MET:HB2	2.42	0.54
44:BG:155:GLU:HG2	44:BG:197:HIS:HD2	1.71	0.54
45:BJ:51:TYR:CE1	45:BJ:61:PRO:HG3	2.43	0.54
45:BJ:293:MET:HE1	45:BJ:315:ALA:HA	1.89	0.54
44:BK:260:VAL:O	45:BN:397:TRP:CH2	2.60	0.54
44:BK:338:LYS:CG	44:BK:340:THR:HG22	2.38	0.54
45:BL:65:LEU:HD22	45:BL:90:PHE:CE1	2.43	0.54
44:BM:88:HIS:HB3	44:BM:91:GLN:HG3	1.90	0.54
44:CA:324:VAL:HG13	44:CA:325:PRO:HD2	1.90	0.54
45:CD:99:ASN:CA	45:CD:142:GLY:HA3	2.38	0.54
44:CE:31:GLN:CG	44:CE:32:PRO:HD2	2.35	0.54
44:CG:422:ARG:NH1	44:CG:426:ALA:HB2	2.23	0.54
45:CJ:246:LEU:HD11	44:CK:224:TYR:CE2	2.43	0.54
45:CL:112:LEU:HD23	45:CL:112:LEU:O	2.08	0.54
45:CL:203:ASP:CG	45:CL:302:ALA:H	2.11	0.54
45:CL:328:GLU:HG3	45:CL:329:GLN:OE1	2.08	0.54
45:CN:131:GLN:C	45:CN:162:ARG:HD3	2.28	0.54
45:CN:379:LYS:O	45:CN:383:GLU:HB2	2.07	0.54
45:DB:65:LEU:HD22	45:DB:90:PHE:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DD:260:PHE:HB3	45:DD:261:PRO:CD	2.33	0.54
45:DF:3:GLU:HG3	45:DF:62:ARG:NH1	2.22	0.54
44:DG:278:ALA:CB	44:DG:369:ALA:HB2	2.38	0.54
45:DH:174:LYS:HD2	45:DH:175:VAL:HG13	1.88	0.54
44:DI:205:ASP:CG	44:DI:304:LYS:H	2.11	0.54
45:DJ:259:PRO:HA	44:DK:404:PHE:CZ	2.42	0.54
45:DL:196:ALA:HB3	45:DL:264:HIS:CE1	2.42	0.54
45:DN:100:ASN:HD22	45:DN:103:LYS:HB2	1.73	0.54
44:EA:263:PRO:HD3	45:EB:396:HIS:NE2	2.23	0.54
44:EA:319:TYR:CB	44:EA:355:ILE:HA	2.29	0.54
45:EB:295:ASP:CG	45:EB:297:LYS:HG2	2.28	0.54
45:EB:318:ARG:CB	45:EB:364:ALA:HB3	2.30	0.54
44:EC:97:GLU:HG2	44:EC:105:ARG:HH22	1.73	0.54
44:EC:183:GLU:CD	44:EC:184:PRO:HD3	2.27	0.54
45:ED:334:GLN:HG3	45:ED:341:PHE:CE2	2.42	0.54
44:EE:143:GLY:O	44:EE:147:SER:OG	2.13	0.54
45:EF:172:SER:HB3	45:EF:204:ASN:OD1	2.07	0.54
45:EF:256:ASN:C	45:EF:257:LEU:HD12	2.28	0.54
45:EF:256:ASN:O	45:EF:257:LEU:HD12	2.08	0.54
44:EG:319:TYR:HB3	44:EG:323:VAL:HG11	1.89	0.54
45:EH:149:THR:O	45:EH:152:ILE:N	2.40	0.54
45:EJ:20:PHE:CZ	45:EJ:24:ILE:HD11	2.43	0.54
45:EJ:293:MET:O	45:EJ:299:MET:HE3	2.08	0.54
44:EK:137:VAL:O	44:EK:168:GLY:HA2	2.08	0.54
45:EL:291:GLN:HE21	45:EL:292:GLN:HG3	1.73	0.54
45:EL:310:TYR:HD1	45:EL:371:SER:HB2	1.69	0.54
44:FA:318:MET:HA	44:FA:354:GLY:H	1.73	0.54
45:FB:191:GLN:O	45:FB:194:GLU:N	2.41	0.54
45:FB:240:LEU:CD1	45:FB:250:LEU:H	2.20	0.54
45:FB:423:GLN:HB2	45:FB:426:GLN:OE1	2.08	0.54
44:FC:101:ASN:CA	44:FC:144:GLY:HA3	2.37	0.54
45:FD:274:THR:HG23	45:FD:279:GLN:HA	1.89	0.54
44:FG:407:TRP:O	44:FG:411:GLU:HG2	2.08	0.54
45:FH:49:VAL:CG2	45:FH:241:ARG:HG2	2.36	0.54
45:FH:105:HIS:CE1	45:FH:150:LEU:HD12	2.43	0.54
45:FH:405:GLU:OE2	45:FH:409:THR:OG1	2.26	0.54
44:FI:188:ILE:CD1	44:FI:425:LEU:HD12	2.38	0.54
44:FI:212:ILE:HD11	44:FI:300:ASN:OD1	2.08	0.54
45:FJ:86:ARG:HE	45:FJ:87:PRO:HD2	1.73	0.54
44:FK:325:PRO:CD	44:FK:355:ILE:HD13	2.37	0.54
45:FL:139:LEU:HD13	45:FL:170:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:268:ILE:HA	45:FL:367:PHE:O	2.08	0.54
45:FN:86:ARG:NH1	45:GN:278:SER:HA	2.23	0.54
45:FN:100:ASN:OD1	45:FN:101:TRP:N	2.41	0.54
45:GB:260:PHE:HB3	45:GB:261:PRO:HD2	1.89	0.54
44:GC:89:PRO:CB	44:HC:280:LYS:HZ2	2.18	0.54
44:GC:320:ARG:HH12	44:GC:360:PRO:N	2.05	0.54
44:GE:200:VAL:HG13	44:GE:268:MET:HE1	1.90	0.54
44:GE:202:VAL:HG11	44:GE:270:SER:OG	2.08	0.54
44:GE:294:SER:HA	44:GE:297:GLU:CG	2.37	0.54
44:GG:73:THR:HG22	45:GH:46:ARG:HH12	1.72	0.54
44:GI:1:MET:HA	44:GI:130:THR:CG2	2.38	0.54
44:GI:145:THR:HG1	46:GI:501:GTP:PG	2.30	0.54
45:GJ:45:GLU:C	45:GJ:46:ARG:HD2	2.27	0.54
45:GJ:256:ASN:C	45:GJ:257:LEU:HD12	2.28	0.54
45:GJ:317:PHE:CE2	45:GJ:326:VAL:HG22	2.43	0.54
44:GK:217:LEU:CD2	44:GK:368:LEU:HD22	2.36	0.54
45:GL:21:TRP:CZ3	45:GL:61:PRO:HB3	2.43	0.54
45:GL:263:LEU:HG	45:GL:422:TYR:CD1	2.43	0.54
44:GM:11:GLN:HE22	45:GN:246:LEU:HA	1.73	0.54
44:GM:161:TYR:HB3	44:GM:164:LYS:HG3	1.89	0.54
45:GN:270:PHE:HE2	45:GN:273:LEU:HD21	1.72	0.54
44:HA:83:TYR:CD1	44:HA:86:LEU:HD22	2.43	0.54
44:HA:272:TYR:CD1	44:HA:376:CYS:HB2	2.42	0.54
45:HB:3:GLU:OE1	45:HB:129:CYS:HB3	2.07	0.54
45:HB:156:ARG:HD3	45:HB:164:MET:HG3	1.90	0.54
45:HD:19:LYS:HD3	45:HD:22:GLU:OE2	2.07	0.54
45:HD:135:ILE:HG13	45:HD:152:ILE:HD11	1.90	0.54
44:HI:174:SER:OG	44:HI:207:GLU:HB2	2.07	0.54
44:HK:271:SER:O	44:HK:377:MET:HG3	2.07	0.54
44:HK:332:ILE:HD12	44:HK:351:PHE:CE1	2.41	0.54
45:HL:40:SER:OG	45:HL:43:GLN:HG3	2.08	0.54
45:HL:180:VAL:HG23	45:HL:183:TYR:CD2	2.42	0.54
45:HN:232:ALA:CB	45:HN:268:ILE:HD12	2.38	0.54
45:ID:200:MET:HG2	45:ID:266:PHE:HB2	1.90	0.54
45:ID:251:ARG:O	45:ID:254:ALA:HB3	2.08	0.54
45:IF:58:ARG:HD3	44:JC:283:HIS:HD2	1.73	0.54
45:IF:180:VAL:HG22	45:IF:180:VAL:O	2.07	0.54
45:IH:388:MET:CE	45:IH:393:ALA:HB3	2.37	0.54
45:IJ:4:ILE:HD11	45:IJ:133:PHE:C	2.28	0.54
45:IL:360:GLY:C	45:IL:361:LEU:HD22	2.28	0.54
44:IM:272:TYR:CE1	44:IM:374:ALA:HB1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JA:1:MET:CE	45:JD:94:GLN:HE22	2.20	0.54
44:JA:184:PRO:O	44:JA:188:ILE:N	2.35	0.54
44:JC:261:PRO:HG2	44:JC:313:MET:SD	2.48	0.54
44:JE:326:LYS:HZ3	45:JH:208:TYR:HD1	1.54	0.54
44:JG:185:TYR:OH	44:JG:398:MET:HG3	2.07	0.54
44:JG:257:THR:N	45:JJ:397:TRP:HZ3	2.06	0.54
45:JH:110:ALA:O	45:JH:113:ILE:HG22	2.06	0.54
45:JH:304:ASP:OD1	45:JH:305:PRO:HD2	2.07	0.54
44:JI:175:PRO:HG2	44:JI:304:LYS:HG2	1.88	0.54
44:JI:288:VAL:CG1	44:JI:327:ASP:HB3	2.36	0.54
44:JI:349:THR:HG21	45:JL:176:SER:OG	2.07	0.54
45:JJ:151:LEU:O	45:JJ:155:VAL:HG23	2.08	0.54
45:JJ:305:PRO:HB2	45:JJ:310:TYR:OH	2.07	0.54
44:JK:54:SER:HB3	44:JK:64:ARG:NH2	2.23	0.54
44:JK:105:ARG:NH2	44:JK:110:ILE:HG21	2.23	0.54
45:JL:3:GLU:CG	45:JL:62:ARG:HH12	2.14	0.54
45:JL:178:THR:O	45:JL:181:GLU:HG3	2.08	0.54
44:KA:105:ARG:CA	44:KA:109:THR:HB	2.29	0.54
44:KA:139:ASN:O	44:KA:171:ILE:HD12	2.08	0.54
44:KC:179:THR:HG23	44:KC:180:ALA:N	2.23	0.54
45:KF:32:PRO:HG3	45:KF:81:PHE:CE1	2.41	0.54
45:KF:173:PRO:HD3	45:KF:380:ARG:CD	2.38	0.54
44:KG:72:PRO:HG2	45:KH:1:MET:CE	2.38	0.54
44:KG:175:PRO:HB3	44:KG:390:ARG:NH1	2.23	0.54
44:KG:320:ARG:HH11	44:KG:320:ARG:HG2	1.73	0.54
44:KI:95:GLY:O	44:KI:96:LYS:HE2	2.08	0.54
44:KI:172:TYR:HD2	44:KI:203:MET:SD	2.31	0.54
44:KM:243:ARG:O	44:KM:243:ARG:HG2	2.06	0.54
44:KM:401:LYS:NZ	45:KN:430:ALA:HA	2.22	0.54
45:KN:360:GLY:O	45:KN:361:LEU:HD23	2.07	0.54
45:LD:404:ASP:HB2	45:LD:407:GLU:OE1	2.08	0.54
45:LH:197:ASP:O	45:LH:264:HIS:HB2	2.06	0.54
44:LI:103:PHE:HB3	44:LI:408:TYR:HE2	1.72	0.54
44:LI:171:ILE:CD1	44:LI:204:LEU:HB2	2.37	0.54
44:LI:236:SER:O	44:LI:240:ALA:HB2	2.08	0.54
45:LL:100:ASN:HB3	45:LL:103:LYS:HG3	1.90	0.54
44:LM:182:VAL:O	44:LM:182:VAL:HG22	2.07	0.54
44:LM:276:ILE:CG2	44:LM:280:LYS:HG3	2.36	0.54
44:LM:403:ALA:O	44:LM:405:VAL:HG13	2.07	0.54
45:LN:60:VAL:CG2	45:LN:86:ARG:HG2	2.38	0.54
44:MA:195:LEU:HD13	44:MA:428:LEU:HD22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MA:387:VAL:O	44:MA:391:LEU:HD13	2.07	0.54
45:MB:101:TRP:CE3	45:MB:187:LEU:HB3	2.43	0.54
45:MB:345:ILE:CG2	45:MB:348:ASN:HD21	2.20	0.54
44:ME:232:ALA:O	44:ME:235:ILE:HG22	2.08	0.54
44:ME:308:ARG:HB2	44:ME:308:ARG:HH11	1.71	0.54
44:MG:38:SER:O	44:MG:40:LYS:HG3	2.08	0.54
44:MG:378:ILE:O	44:MG:378:ILE:HG23	2.06	0.54
44:MI:137:VAL:HG22	44:MI:167:LEU:O	2.07	0.54
44:MI:200:VAL:HG13	44:MI:268:MET:SD	2.47	0.54
44:MI:221:ARG:N	44:MI:222:PRO:HD3	2.22	0.54
44:MK:276:ILE:HD11	44:MK:371:VAL:HG11	1.89	0.54
44:NA:100:ALA:CA	45:NB:252:LYS:HD3	2.37	0.54
44:NA:274:PRO:HB2	44:NA:276:ILE:CD1	2.37	0.54
44:NA:329:ASN:OD1	44:NA:330:ALA:N	2.41	0.54
45:NB:26:ASP:HB3	45:NB:359:LYS:CD	2.38	0.54
45:NB:117:LEU:HG	45:NB:154:LYS:HZ2	1.72	0.54
45:NB:311:LEU:HD23	45:NB:342:VAL:HG11	1.89	0.54
44:NC:205:ASP:OD1	44:NC:205:ASP:N	2.41	0.54
44:NC:398:MET:HE1	45:ND:345:ILE:HD12	1.89	0.54
45:ND:45:GLU:CD	45:ND:46:ARG:HG2	2.28	0.54
45:NF:267:MET:HB3	45:NF:299:MET:HE2	1.90	0.54
44:NG:31:GLN:HG3	44:NG:32:PRO:CD	2.38	0.54
44:NG:287:SER:O	44:NG:291:ILE:HG23	2.08	0.54
45:NH:150:LEU:CD2	45:NH:154:LYS:HE3	2.38	0.54
45:NH:237:THR:HG22	45:NH:250:LEU:HD11	1.88	0.54
44:NI:68:LEU:CD2	44:NI:118:CYS:HB2	2.38	0.54
44:NI:254:GLU:CG	45:NL:98:GLY:HA2	2.38	0.54
45:NJ:131:GLN:O	45:NJ:163:ILE:HG22	2.08	0.54
44:NK:332:ILE:HG23	44:NK:351:PHE:CE2	2.42	0.54
45:NL:11:GLN:HB2	45:NL:72:THR:HG21	1.88	0.54
44:NM:118:CYS:O	44:NM:121:ARG:HB3	2.08	0.54
45:NN:31:ASP:OD1	45:NN:35:THR:N	2.41	0.54
45:NN:268:ILE:O	45:NN:300:MET:HE2	2.07	0.54
44:OA:332:ILE:HG22	44:OA:336:LYS:HZ3	1.72	0.54
45:OB:67:ASP:OD2	45:OB:73:MET:HG3	2.08	0.54
45:OB:318:ARG:HD3	45:OB:364:ALA:HB3	1.89	0.54
44:OC:251:ASP:H	44:OC:254:GLU:HB2	1.73	0.54
45:OD:108:GLU:O	45:OD:112:LEU:N	2.40	0.54
45:OJ:417:ASP:HA	45:OJ:420:SER:OG	2.08	0.54
44:OK:33:ASP:HA	44:OK:85:GLN:HG3	1.90	0.54
44:OM:9:VAL:HG22	44:OM:146:GLY:CA	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OM:80:THR:HA	44:OM:84:ARG:HD3	1.89	0.54
44:OM:224:TYR:CZ	45:ON:323:THR:HG21	2.42	0.54
44:PA:21:TRP:CZ2	44:PA:65:ALA:HB2	2.43	0.54
45:PB:3:GLU:OE2	45:PB:127:CYS:HB2	2.08	0.54
44:PC:277:SER:HA	44:PC:367:ASP:O	2.08	0.54
44:PC:311:LYS:NZ	44:PC:342:GLN:HG3	2.22	0.54
44:PE:203:MET:CE	44:PE:205:ASP:HB3	2.38	0.54
45:PH:211:CYS:O	45:PH:217:LEU:HG	2.07	0.54
44:PI:13:GLY:O	44:PI:16:VAL:HG12	2.06	0.54
45:PJ:7:ILE:HB	45:PJ:135:ILE:HD12	1.90	0.54
45:PJ:11:GLN:HB2	48:PJ:501:GDP:O3B	2.08	0.54
44:PK:1:MET:HG2	44:PK:1:MET:O	2.07	0.54
44:PK:5:ILE:O	44:PK:135:PHE:HA	2.08	0.54
44:PK:10:GLY:O	44:PK:14:ILE:HG13	2.08	0.54
44:PK:253:THR:HG23	44:PK:254:GLU:HG3	1.90	0.54
44:PK:325:PRO:HG3	44:PK:355:ILE:HD12	1.86	0.54
44:PM:222:PRO:CG	45:PN:324:LYS:HD3	2.37	0.54
44:PM:407:TRP:CH2	45:PN:255:VAL:HA	2.43	0.54
45:QB:11:GLN:HG3	45:QB:72:THR:HG21	1.89	0.54
45:QB:294:PHE:CE1	45:QB:333:VAL:HG11	2.42	0.54
44:QC:168:GLY:N	44:QC:200:VAL:O	2.38	0.54
44:QC:188:ILE:HG23	44:QC:425:LEU:HD11	1.90	0.54
45:QD:68:LEU:HD23	45:QD:97:ALA:N	2.21	0.54
45:QD:198:GLU:OE2	45:QD:254:ALA:HA	2.07	0.54
45:QD:200:MET:SD	45:QD:266:PHE:HB2	2.47	0.54
45:QD:251:ARG:HA	45:QD:254:ALA:HB3	1.88	0.54
44:QE:270:SER:HB3	44:QE:378:ILE:HD13	1.88	0.54
45:QF:31:ASP:HB3	45:QF:32:PRO:CD	2.38	0.54
44:QG:52:PHE:HZ	44:QG:239:THR:HG1	1.51	0.54
44:QG:212:ILE:HG21	44:QG:275:ILE:HD12	1.90	0.54
45:QH:91:VAL:HG12	45:QH:112:LEU:HD21	1.89	0.54
44:QI:34:GLY:HA3	44:QI:60:LYS:HB2	1.89	0.54
44:QI:64:ARG:CD	44:QI:125:LEU:HD22	2.23	0.54
45:QJ:2:ARG:HG3	45:QJ:240:LEU:HD11	1.90	0.54
44:QK:121:ARG:HH21	44:QK:124:LYS:HE2	1.73	0.54
44:QK:191:THR:O	44:QK:195:LEU:N	2.41	0.54
45:QN:211:CYS:CA	45:QN:215:LEU:HB2	2.38	0.54
44:RA:318:MET:SD	44:RA:354:GLY:HA3	2.48	0.54
45:RD:238:CYS:HA	45:RD:241:ARG:NH2	2.22	0.54
44:RE:128:ASN:HD21	44:SE:285:GLN:NE2	2.05	0.54
44:RE:166:LYS:C	44:RE:167:LEU:HD12	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:360:GLY:C	45:RF:361:LEU:HD23	2.28	0.54
44:RG:67:PHE:C	44:RG:68:LEU:HD12	2.28	0.54
45:RH:322:SER:HB2	44:RI:223:THR:CA	2.33	0.54
44:RI:268:MET:CB	44:RI:380:ASN:HA	2.35	0.54
45:RJ:118:ASP:O	45:RJ:121:ARG:HB3	2.08	0.54
45:RJ:414:ASN:O	45:RJ:418:LEU:N	2.34	0.54
44:RK:145:THR:HG22	46:RK:501:GTP:O2G	2.08	0.54
44:RK:213:CYS:HB2	44:RK:217:LEU:HD12	1.90	0.54
44:RM:329:ASN:HB3	45:RN:175:VAL:HG12	1.90	0.54
45:RN:293:MET:HG3	45:RN:294:PHE:HD1	1.72	0.54
45:SB:112:LEU:O	45:SB:112:LEU:HD23	2.08	0.54
44:SC:36:MET:HG3	44:SC:61:HIS:CE1	2.42	0.54
44:SC:269:LEU:HB2	44:SC:301:MET:HE2	1.89	0.54
44:SC:372:MET:HG3	44:SC:373:ARG:HG3	1.88	0.54
44:SE:84:ARG:NH1	44:SE:85:GLN:HB2	2.22	0.54
44:SE:206:ASN:HA	44:SE:209:ILE:CD1	2.38	0.54
44:SE:276:ILE:HD13	44:SE:286:LEU:HD11	1.90	0.54
45:SH:69:GLU:OE1	45:SH:71:GLY:N	2.34	0.54
45:SH:73:MET:CA	45:SH:76:VAL:HG22	2.37	0.54
45:SH:285:THR:OG1	45:SH:287:PRO:HD2	2.08	0.54
45:SH:318:ARG:HH11	45:SH:358:PRO:CG	2.18	0.54
45:SH:321:MET:SD	45:SH:353:ILE:HG23	2.48	0.54
44:SI:166:LYS:C	44:SI:167:LEU:HD12	2.27	0.54
44:SK:123:ARG:O	44:SK:127:ASP:N	2.40	0.54
44:SK:247:ALA:HB2	44:SK:357:TYR:OH	2.08	0.54
44:SK:331:SER:O	44:SK:334:THR:HB	2.08	0.54
45:SN:146:GLY:HA2	45:SN:149:THR:HG22	1.89	0.54
45:SN:313:ALA:CA	45:SN:369:GLY:HA2	2.38	0.54
44:TC:194:LEU:HB2	44:TC:198:THR:OG1	2.07	0.54
45:TD:103:LYS:HA	45:TD:107:THR:OG1	2.07	0.54
44:TE:93:ILE:CG2	44:TE:117:LEU:HB3	2.38	0.54
44:TE:183:GLU:N	44:TE:184:PRO:HD2	2.23	0.54
44:TE:417:GLU:O	44:TE:420:GLU:HG2	2.08	0.54
45:TF:32:PRO:HG3	45:TF:81:PHE:CZ	2.42	0.54
45:TH:64:ILE:CG1	45:TH:89:ASN:HD22	2.19	0.54
45:TH:336:LYS:HE2	45:TH:336:LYS:HA	1.89	0.54
44:TI:14:ILE:HD11	44:TI:68:LEU:O	2.06	0.54
44:TI:233:GLN:HA	44:TI:236:SER:OG	2.08	0.54
45:TJ:86:ARG:HB3	45:UJ:281:TYR:CE1	2.38	0.54
44:TK:21:TRP:HZ2	44:TK:65:ALA:HB2	1.73	0.54
45:TL:47:ILE:HD11	45:TL:51:TYR:HD2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:245:GLN:CG	45:TL:353:ILE:HG21	2.31	0.54
44:TM:75:ILE:HG23	44:TM:92:LEU:CD2	2.38	0.54
44:TM:210:TYR:HE1	44:TM:227:LEU:HD11	1.72	0.54
44:TM:225:THR:OG1	44:TM:229:ARG:NH2	2.40	0.54
45:TN:156:ARG:HD2	45:TN:164:MET:CE	2.38	0.54
44:UC:239:THR:O	44:UC:243:ARG:NE	2.29	0.54
45:UD:139:LEU:HD12	45:UD:168:SER:HB3	1.88	0.54
45:UD:164:MET:N	45:UD:197:ASP:OD2	2.41	0.54
44:UE:315:CYS:SG	44:UE:379:SER:HB3	2.47	0.54
44:UG:10:GLY:O	44:UG:14:ILE:HG13	2.08	0.54
44:UI:183:GLU:N	44:UI:184:PRO:HD2	2.22	0.54
44:UI:251:ASP:CG	44:UI:253:THR:HG22	2.27	0.54
44:UI:287:SER:HB3	44:UI:290:GLU:CG	2.35	0.54
45:UJ:211:CYS:O	45:UJ:217:LEU:HG	2.08	0.54
45:UL:205:GLU:OE1	45:UL:205:GLU:HA	2.07	0.54
44:VA:56:THR:HG23	44:VA:58:ALA:H	1.73	0.54
44:VA:88:HIS:CD2	44:VA:89:PRO:HD2	2.42	0.54
44:VA:287:SER:N	44:VA:290:GLU:OE2	2.36	0.54
44:VA:399:TYR:OH	44:VA:415:GLU:OE2	2.12	0.54
44:VC:89:PRO:HG3	44:WC:280:LYS:CG	2.37	0.54
44:VC:121:ARG:HH11	44:VC:124:LYS:NZ	2.04	0.54
45:VD:262:ARG:NH2	45:VD:418:LEU:HB2	2.22	0.54
44:VE:181:VAL:CG2	45:VF:256:ASN:HB3	2.37	0.54
45:VF:140:GLY:HA2	45:VF:184:ASN:OD1	2.08	0.54
44:VG:108:TYR:CE2	44:VG:413:MET:HG2	2.42	0.54
44:VG:174:SER:CB	44:VG:207:GLU:HB2	2.38	0.54
44:VI:317:MET:HE2	44:VI:377:MET:HB3	1.89	0.54
45:VJ:192:LEU:HD12	45:VJ:196:ALA:HB2	1.90	0.54
45:VJ:208:TYR:CE1	45:VJ:225:LEU:HD11	2.43	0.54
45:VJ:264:HIS:O	45:VJ:265:PHE:HD1	1.89	0.54
44:VK:67:PHE:HB2	44:VK:92:LEU:HG	1.89	0.54
45:VL:1:MET:HE1	45:VL:129:CYS:HB2	1.89	0.54
45:VL:114:ASP:OD1	45:VL:115:SER:N	2.40	0.54
45:VL:286:VAL:HG11	45:VL:325:GLU:HG2	1.89	0.54
45:VL:294:PHE:HD2	45:VL:333:VAL:HG21	1.66	0.54
44:WA:213:CYS:HB3	44:WA:219:ILE:HB	1.90	0.54
44:WC:12:GLY:O	44:WC:16:VAL:HG12	2.07	0.54
45:WD:254:ALA:O	45:WD:258:ILE:HD13	2.07	0.54
45:WD:304:ASP:OD1	45:WD:305:PRO:HD2	2.08	0.54
45:WF:25:SER:HB3	45:WF:30:ILE:O	2.07	0.54
44:WG:266:HIS:ND1	44:WG:266:HIS:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:67:PHE:HB2	44:WI:92:LEU:CD1	2.38	0.54
44:WI:288:VAL:O	44:WI:291:ILE:HG12	2.08	0.54
44:WK:182:VAL:HB	45:WL:256:ASN:OD1	2.07	0.54
45:WN:61:PRO:HD3	45:WN:84:LEU:HB3	1.90	0.54
45:WN:178:THR:CG2	45:WN:180:VAL:HG12	2.37	0.54
45:WN:279:GLN:HA	45:WN:282:ARG:NH1	2.23	0.54
45:WN:378:PHE:CB	45:WN:419:VAL:HG22	2.38	0.54
5:0D:14:TYR:HA	44:CC:79:ARG:NH2	2.21	0.54
5:0D:94:ASN:ND2	44:EC:26:LEU:HD13	2.22	0.54
10:0N:212:ILE:HD11	45:KN:33:THR:HG21	1.90	0.54
5:1D:171:LEU:HD21	44:EG:79:ARG:HB2	1.89	0.54
22:1L:555:LYS:HZ1	45:BF:355:ASP:HB3	1.72	0.54
26:1R:348:TYR:CD1	44:CC:40:LYS:HG2	2.43	0.54
15:1V:82:THR:HG21	45:LJ:402:GLY:O	2.07	0.54
22:2L:408:LEU:HG	45:CN:362:LYS:HE2	1.88	0.54
14:2U:449:ARG:NH2	44:VI:84:ARG:HG3	2.22	0.54
32:3I:247:ILE:HD11	45:GJ:328:GLU:HA	1.90	0.54
26:3R:226:PRO:O	45:BN:78:ALA:HB1	2.06	0.54
34:4F:198:LYS:HZ3	44:IM:219:ILE:HG12	1.71	0.54
35:4R:12:LEU:HD13	45:LF:361:LEU:HG	1.90	0.54
37:5D:48:LEU:HD13	44:KK:434:GLU:HG3	1.88	0.54
38:5H:77:LYS:O	38:5H:80:LYS:N	2.41	0.54
38:5H:113:LEU:HD23	38:5H:114:PRO:N	2.22	0.54
38:5H:123:ARG:O	38:5H:124:TYR:HB2	2.08	0.54
39:5K:40:THR:HG21	44:JK:423:GLU:OE2	2.06	0.54
35:5R:220:ILE:HG22	35:5R:221:PRO:HD2	1.89	0.54
35:5R:454:MET:SD	35:5R:455:VAL:N	2.81	0.54
36:5S:87:ILE:HD11	36:5S:126:GLU:CD	2.29	0.54
41:6G:235:ILE:HG13	44:UE:96:LYS:HG3	1.90	0.54
35:6R:300:PHE:HE2	45:CN:77:ARG:CD	2.10	0.54
35:6R:404:LEU:HD12	45:DN:77:ARG:CD	2.26	0.54
35:6R:413:ILE:O	35:6R:416:MET:N	2.41	0.54
35:6R:597:ASN:N	35:6R:597:ASN:OD1	2.39	0.54
35:7R:392:GLY:HA2	45:EB:224:ASP:OD1	2.07	0.54
45:AB:28:HIS:NE2	45:AB:241:ARG:HD2	2.22	0.54
45:AB:110:ALA:O	45:AB:113:ILE:HG22	2.08	0.54
45:AB:183:TYR:OH	45:AB:388:MET:O	2.25	0.54
45:AB:274:THR:OG1	45:AB:279:GLN:HA	2.08	0.54
44:AC:93:ILE:CG1	44:AC:117:LEU:HD22	2.35	0.54
44:AC:115:VAL:O	44:AC:119:LEU:HD23	2.08	0.54
44:AG:19:ALA:HA	44:AG:22:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:176:GLN:HG2	44:AG:177:VAL:N	2.22	0.54
45:AH:86:ARG:NE	45:AH:87:PRO:HD2	2.23	0.54
45:AH:170:VAL:HG23	45:AH:377:MET:HE1	1.89	0.54
45:AJ:245:GLN:N	45:AJ:245:GLN:OE1	2.41	0.54
44:AK:118:CYS:O	44:AK:122:ILE:HG12	2.08	0.54
45:AL:67:ASP:OD1	45:AL:68:LEU:N	2.39	0.54
45:AL:137:HIS:O	45:AL:168:SER:HA	2.07	0.54
44:AM:11:GLN:NE2	45:AN:245:GLN:O	2.40	0.54
44:AM:60:LYS:HD3	44:BM:283:HIS:CD2	2.43	0.54
44:AM:109:THR:HB	44:AM:110:ILE:HD12	1.89	0.54
45:AN:2:ARG:NH2	45:AN:240:LEU:HD12	2.22	0.54
45:AN:330:MET:SD	45:AN:349:ILE:HG21	2.48	0.54
44:BA:2:ARG:HH12	44:BA:51:THR:H	1.56	0.54
44:BC:1:MET:O	44:BC:1:MET:HG2	2.07	0.54
44:BC:189:LEU:O	44:BC:192:HIS:HB3	2.07	0.54
45:BD:17:GLY:O	45:BD:20:PHE:N	2.40	0.54
44:BE:210:TYR:CE1	45:BF:324:LYS:HB2	2.42	0.54
44:BE:242:LEU:HD21	44:BE:252:ILE:CD1	2.38	0.54
44:BE:407:TRP:CH2	45:BF:255:VAL:HA	2.41	0.54
45:BF:130:LEU:HG	45:BF:162:ARG:HD2	1.90	0.54
45:BF:377:MET:O	45:BF:380:ARG:HG2	2.07	0.54
44:BG:132:LEU:HB2	44:BG:164:LYS:NZ	2.22	0.54
44:BG:340:THR:CG2	44:BG:341:ILE:HD12	2.36	0.54
45:BH:253:LEU:O	45:BH:257:LEU:HD23	2.07	0.54
45:BJ:20:PHE:HE1	45:BJ:233:MET:HB3	1.73	0.54
45:BJ:124:ALA:O	45:BJ:130:LEU:HD21	2.07	0.54
44:BK:363:VAL:HG23	44:BK:364:PRO:HD2	1.89	0.54
44:BM:235:ILE:O	44:BM:239:THR:HG22	2.08	0.54
44:BM:242:LEU:HD11	44:BM:252:ILE:HG13	1.90	0.54
45:BN:164:MET:O	45:BN:197:ASP:HB2	2.07	0.54
44:CA:175:PRO:HB3	44:CA:390:ARG:CD	2.38	0.54
44:CA:215:ARG:NH2	44:CA:299:ALA:HB1	2.22	0.54
45:CB:7:ILE:HB	45:CB:135:ILE:CD1	2.37	0.54
45:CB:180:VAL:HG23	45:CB:183:TYR:CD2	2.43	0.54
45:CB:289:LEU:HD13	45:CB:365:VAL:HG23	1.88	0.54
45:CB:314:SER:CB	45:CB:350:LYS:HD3	2.37	0.54
44:CC:62:VAL:HG23	44:CC:62:VAL:O	2.08	0.54
45:CD:4:ILE:HG23	45:CD:131:GLN:HB3	1.89	0.54
45:CD:36:TYR:CZ	45:CD:38:GLY:HA3	2.43	0.54
45:CD:214:THR:O	45:CD:275:SER:HB3	2.08	0.54
44:CE:143:GLY:HA3	46:CE:501:GTP:O3B	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:105:HIS:O	45:CF:150:LEU:HD11	2.06	0.54
45:CF:372:THR:HG22	45:CF:422:TYR:CE1	2.42	0.54
44:CG:93:ILE:HD11	44:CG:121:ARG:CZ	2.37	0.54
44:CI:195:LEU:HD11	44:CI:428:LEU:HD13	1.89	0.54
44:CI:390:ARG:HG3	44:CI:391:LEU:HD12	1.90	0.54
44:CK:2:ARG:CD	44:CK:242:LEU:HD22	2.38	0.54
44:CK:363:VAL:HG23	44:CK:364:PRO:HD2	1.89	0.54
45:CL:311:LEU:CD1	45:CL:370:ASN:HB3	2.37	0.54
44:CM:167:LEU:HA	44:CM:200:VAL:O	2.08	0.54
44:DE:13:GLY:HA2	44:DE:16:VAL:HG22	1.90	0.54
44:DE:238:LEU:CA	44:DE:318:MET:HE1	2.37	0.54
45:DF:8:GLN:NE2	45:DF:16:ILE:HB	2.21	0.54
45:DF:253:LEU:O	45:DF:257:LEU:HD13	2.07	0.54
45:DJ:58:ARG:HH11	45:EJ:280:GLN:NE2	2.03	0.54
45:DJ:101:TRP:HB2	45:DJ:184:ASN:CB	2.38	0.54
45:DL:44:LEU:CD2	45:DL:47:ILE:HD13	2.37	0.54
45:DL:257:LEU:HA	45:DL:312:THR:HG21	1.90	0.54
44:EC:288:VAL:HG21	44:EC:323:VAL:HG21	1.89	0.54
45:ED:186:THR:HG21	45:ED:385:PHE:CD1	2.43	0.54
45:EH:25:SER:HA	45:EH:30:ILE:HG12	1.89	0.54
44:EI:268:MET:HG3	44:EI:378:ILE:CG2	2.38	0.54
45:EJ:103:LYS:HA	45:EJ:107:THR:HG21	1.89	0.54
45:EJ:139:LEU:HD23	45:EJ:188:SER:OG	2.07	0.54
44:EK:79:ARG:CD	44:EK:92:LEU:HD11	2.37	0.54
45:EL:7:ILE:HB	45:EL:135:ILE:CD1	2.37	0.54
45:EL:420:SER:O	45:EL:423:GLN:NE2	2.40	0.54
45:FB:65:LEU:O	45:FB:91:VAL:HG22	2.08	0.54
45:FB:121:ARG:NH2	45:FB:158:GLU:OE2	2.41	0.54
45:FF:215:LEU:HB3	45:FF:217:LEU:HD23	1.90	0.54
44:FG:125:LEU:HD23	44:FG:125:LEU:O	2.08	0.54
45:FH:310:TYR:CE1	45:FH:371:SER:HB2	2.43	0.54
44:FI:105:ARG:O	44:FI:109:THR:HG22	2.08	0.54
44:FI:182:VAL:O	44:FI:182:VAL:HG22	2.07	0.54
44:FI:269:LEU:HD23	44:FI:379:SER:O	2.07	0.54
45:FJ:3:GLU:CG	45:FJ:127:CYS:HB2	2.38	0.54
44:FK:225:THR:O	44:FK:228:ASN:N	2.41	0.54
45:FL:97:ALA:CB	45:FL:143:THR:HG23	2.35	0.54
44:FM:35:GLN:HG2	44:FM:60:LYS:HB3	1.88	0.54
44:FM:70:LEU:CA	44:FM:95:GLY:HA3	2.38	0.54
45:FN:12:CYS:O	45:FN:16:ILE:HG12	2.07	0.54
45:FN:314:SER:CB	45:FN:368:VAL:HB	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:260:VAL:HG22	44:GA:266:HIS:HA	1.89	0.54
45:GB:4:ILE:HG22	45:GB:132:GLY:H	1.72	0.54
45:GB:6:HIS:O	45:GB:63:ALA:HA	2.08	0.54
45:GB:20:PHE:CE1	45:GB:233:MET:HG3	2.43	0.54
44:GC:71:GLU:OE1	44:GC:73:THR:N	2.32	0.54
44:GE:106:GLY:O	44:GE:149:LEU:HD22	2.07	0.54
44:GE:350:GLY:HA2	45:GH:179:VAL:HG12	1.90	0.54
45:GF:60:VAL:O	45:GF:60:VAL:HG23	2.07	0.54
45:GF:378:PHE:CB	45:GF:415:MET:HE2	2.38	0.54
45:GH:54:ALA:HA	45:HH:283:ALA:CB	2.37	0.54
44:GK:167:LEU:HB3	44:GK:169:PHE:CE2	2.43	0.54
44:GK:317:MET:HE2	44:GK:375:VAL:CG2	2.27	0.54
45:GL:19:LYS:O	45:GL:23:VAL:HG12	2.07	0.54
44:GM:14:ILE:HG22	44:GM:18:ASN:HD21	1.71	0.54
45:GN:21:TRP:CH2	45:GN:61:PRO:HB3	2.43	0.54
45:GN:206:ALA:HB3	45:GN:300:MET:O	2.08	0.54
45:GN:311:LEU:H	45:GN:371:SER:HA	1.73	0.54
45:GN:317:PHE:CG	45:GN:365:VAL:HG22	2.42	0.54
44:HA:290:GLU:OE1	44:HA:290:GLU:HA	2.08	0.54
45:HB:173:PRO:HB3	45:HB:380:ARG:HH12	1.70	0.54
44:HC:383:ALA:O	44:HC:386:GLU:HG2	2.08	0.54
45:HD:130:LEU:HD11	45:HD:133:PHE:HE1	1.73	0.54
45:HD:213:ARG:NH2	45:HD:297:LYS:HE2	2.23	0.54
44:HE:205:ASP:OD1	44:HE:303:ALA:HA	2.07	0.54
44:HE:325:PRO:HG2	45:HH:222:TYR:CZ	2.42	0.54
44:HG:292:THR:HG21	44:HG:331:SER:HB2	1.90	0.54
45:HH:256:ASN:C	45:HH:257:LEU:HD12	2.28	0.54
45:HH:330:MET:SD	45:HH:349:ILE:HG12	2.48	0.54
44:HI:15:GLN:HB2	46:HI:501:GTP:O6	2.08	0.54
45:HJ:287:PRO:O	45:HJ:290:THR:HG22	2.08	0.54
45:HN:325:GLU:HG3	45:HN:328:GLU:OE2	2.08	0.54
44:IA:107:HIS:CE1	44:IA:108:TYR:CE1	2.96	0.54
45:IB:104:GLY:O	45:IB:147:MET:HG3	2.08	0.54
45:IB:226:ASN:OD1	48:IB:501:GDP:N1	2.40	0.54
44:IC:183:GLU:N	44:IC:184:PRO:HD2	2.22	0.54
44:IC:216:ASN:HB3	44:IC:275:ILE:O	2.07	0.54
45:ID:405:GLU:HG2	45:ID:406:MET:N	2.22	0.54
44:IE:241:SER:OG	44:IE:249:ASN:HB3	2.08	0.54
45:IF:141:GLY:HA2	48:IF:501:GDP:PA	2.48	0.54
45:IF:341:PHE:HB3	45:IF:348:ASN:HD21	1.73	0.54
45:IH:169:VAL:O	45:IH:169:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:163:ILE:HA	45:IJ:197:ASP:OD2	2.08	0.54
45:IJ:268:ILE:O	45:IJ:300:MET:HB2	2.07	0.54
45:IL:349:ILE:HG23	45:IL:349:ILE:O	2.06	0.54
44:JA:36:MET:CG	44:JA:37:PRO:HD2	2.34	0.54
44:JA:138:PHE:HE1	44:JA:169:PHE:CD2	2.25	0.54
45:JB:2:ARG:NH2	45:JB:240:LEU:HG	2.23	0.54
45:JB:344:TRP:CZ3	45:JB:345:ILE:HB	2.43	0.54
45:JF:309:ARG:HH21	45:JF:426:GLN:C	2.10	0.54
45:JF:314:SER:CB	45:JF:350:LYS:HE3	2.38	0.54
45:JH:19:LYS:O	45:JH:22:GLU:HB3	2.07	0.54
44:JK:93:ILE:H	44:JK:93:ILE:HD12	1.72	0.54
44:JM:201:ALA:HB3	44:JM:267:PHE:HA	1.88	0.54
44:JM:242:LEU:HD21	44:JM:252:ILE:HD12	1.90	0.54
45:JN:286:VAL:HG21	45:JN:321:MET:HE3	1.90	0.54
44:KA:132:LEU:HD12	44:KA:132:LEU:O	2.07	0.54
44:KA:183:GLU:N	44:KA:184:PRO:HD2	2.23	0.54
44:KA:231:ILE:O	44:KA:235:ILE:HG12	2.08	0.54
45:KB:36:TYR:HE2	45:KB:44:LEU:HD11	1.70	0.54
44:KC:53:PHE:HB3	44:KC:61:HIS:HB3	1.90	0.54
44:KC:121:ARG:HA	44:KC:121:ARG:NE	2.23	0.54
44:KE:103:PHE:HB2	44:KE:186:ASN:CB	2.37	0.54
44:KG:177:VAL:HG21	45:KH:327:ASP:HB3	1.88	0.54
44:KG:184:PRO:O	44:KG:188:ILE:HG12	2.07	0.54
45:KH:127:CYS:SG	45:KH:130:LEU:HB2	2.48	0.54
44:KI:268:MET:HB3	44:KI:380:ASN:HB2	1.89	0.54
44:KK:256:GLN:CD	44:KK:257:THR:HG23	2.28	0.54
44:KK:349:THR:O	45:KN:179:VAL:HG23	2.07	0.54
45:KL:3:GLU:CG	45:KL:127:CYS:HB2	2.38	0.54
45:KL:144:GLY:O	45:KL:148:GLY:HA3	2.08	0.54
44:KM:314:ALA:N	44:KM:380:ASN:O	2.39	0.54
44:LA:70:LEU:HD12	44:LA:145:THR:HB	1.90	0.54
44:LA:423:GLU:O	44:LA:426:ALA:N	2.41	0.54
45:LD:7:ILE:O	45:LD:7:ILE:HG13	2.08	0.54
45:LD:286:VAL:HG23	45:LD:287:PRO:HD3	1.90	0.54
45:LD:379:LYS:O	45:LD:383:GLU:N	2.32	0.54
45:LF:124:ALA:CB	45:LF:130:LEU:HD22	2.36	0.54
45:LJ:106:TYR:HE2	45:LJ:403:MET:HG2	1.72	0.54
44:LK:123:ARG:NH1	44:MK:338:LYS:HE3	2.23	0.54
44:LM:206:ASN:HB3	44:LM:210:TYR:CZ	2.43	0.54
44:LM:324:VAL:CG1	44:LM:325:PRO:HD2	2.37	0.54
45:LN:3:GLU:OE2	45:LN:127:CYS:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MA:183:GLU:N	44:MA:184:PRO:HD2	2.23	0.54
44:MA:434:GLU:O	44:MA:437:ILE:HG22	2.08	0.54
45:MB:252:LYS:HG2	45:MB:350:LYS:CE	2.34	0.54
44:MC:156:ARG:O	44:MC:159:VAL:HG12	2.08	0.54
45:MD:9:GLY:O	45:MD:13:GLY:HA3	2.08	0.54
45:MD:213:ARG:HE	45:MD:297:LYS:HE3	1.73	0.54
45:MD:286:VAL:HG23	45:MD:287:PRO:CD	2.31	0.54
44:ME:282:TYR:CE1	44:ME:371:VAL:HG12	2.43	0.54
45:MF:67:ASP:OD1	45:MF:68:LEU:N	2.41	0.54
44:MG:137:VAL:O	44:MG:168:GLY:HA2	2.08	0.54
45:MH:303:ALA:H	45:MH:377:MET:HE2	1.73	0.54
45:MJ:302:ALA:CB	45:MJ:377:MET:HE1	2.28	0.54
44:MK:101:ASN:HA	44:MK:144:GLY:H	1.73	0.54
44:MM:13:GLY:CA	44:MM:16:VAL:HG22	2.38	0.54
44:NA:66:VAL:HG13	44:NA:91:GLN:O	2.08	0.54
44:NA:108:TYR:CA	44:NA:112:LYS:HZ2	2.20	0.54
44:NA:242:LEU:CD2	44:NA:252:ILE:HB	2.38	0.54
44:NC:159:VAL:O	44:NC:159:VAL:HG12	2.08	0.54
44:NC:274:PRO:HB2	44:NC:276:ILE:CD1	2.37	0.54
44:NG:178:SER:HB3	45:NH:347:ASN:HB3	1.89	0.54
44:NI:258:ASN:HA	45:NL:179:VAL:HG21	1.90	0.54
45:NJ:421:GLU:O	45:NJ:424:GLN:HG3	2.06	0.54
44:NK:339:ARG:HD2	44:NK:339:ARG:O	2.07	0.54
45:NL:418:LEU:HA	45:NL:421:GLU:HG2	1.89	0.54
44:NM:394:LYS:HA	44:NM:397:LEU:CD1	2.38	0.54
45:OB:147:MET:HA	45:OB:150:LEU:HB3	1.90	0.54
45:OB:262:ARG:C	45:OB:263:LEU:HD12	2.28	0.54
44:OC:181:VAL:HG12	45:OD:256:ASN:OD1	2.08	0.54
44:OE:295:ALA:CB	44:OE:377:MET:HE2	2.37	0.54
44:OE:417:GLU:HA	44:OE:420:GLU:CD	2.28	0.54
45:OH:113:ILE:HA	45:OH:116:VAL:HG12	1.90	0.54
44:OI:332:ILE:HG23	44:OI:351:PHE:CD2	2.43	0.54
45:OJ:32:PRO:HG3	45:OJ:81:PHE:CZ	2.42	0.54
44:OK:108:TYR:HE2	44:OK:413:MET:HA	1.73	0.54
44:OK:254:GLU:CG	45:ON:98:GLY:HA2	2.35	0.54
45:OL:135:ILE:N	45:OL:165:GLU:O	2.35	0.54
45:OL:316:LEU:HD23	45:OL:352:SER:CB	2.38	0.54
44:OM:318:MET:O	44:OM:375:VAL:HA	2.08	0.54
45:ON:238:CYS:SG	45:ON:239:CYS:N	2.81	0.54
44:PC:212:ILE:HD13	44:PC:215:ARG:HH22	1.72	0.54
45:PD:102:ALA:HB2	45:PD:398:TYR:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:178:THR:HG21	45:PD:181:GLU:CG	2.38	0.54
45:PD:258:ILE:O	45:PD:258:ILE:HG13	2.08	0.54
45:PF:103:LYS:O	45:PF:107:THR:OG1	2.21	0.54
45:PH:21:TRP:CZ3	45:PH:61:PRO:HB3	2.43	0.54
44:PI:14:ILE:HD13	44:PI:75:ILE:CD1	2.38	0.54
44:PI:195:LEU:HD21	44:PI:264:ARG:NH2	2.23	0.54
44:PK:126:ALA:HB1	44:PK:132:LEU:HD11	1.89	0.54
45:PL:224:ASP:O	45:PL:228:LEU:HD23	2.08	0.54
44:PM:79:ARG:HH12	44:PM:94:SER:HB2	1.72	0.54
44:PM:346:TRP:CZ2	44:PM:435:VAL:HG12	2.43	0.54
44:QA:67:PHE:HB2	44:QA:92:LEU:HA	1.89	0.54
46:QA:501:GTP:H8	46:QA:501:GTP:O1A	1.91	0.54
45:QB:5:VAL:HG12	45:QB:133:PHE:CD1	2.43	0.54
44:QC:9:VAL:HA	44:QC:68:LEU:O	2.08	0.54
44:QE:215:ARG:HH22	44:QE:299:ALA:HB1	1.71	0.54
45:QF:187:LEU:HD13	45:QF:403:MET:HE1	1.89	0.54
45:QF:285:THR:OG1	45:QF:287:PRO:HD2	2.08	0.54
45:QF:295:ASP:OD1	45:QF:296:ALA:N	2.41	0.54
45:QF:325:GLU:OE1	44:QG:221:ARG:NH1	2.41	0.54
45:QH:12:CYS:HB2	48:QH:501:GDP:C1'	2.37	0.54
45:QH:221:THR:HG23	45:QH:223:GLY:N	2.21	0.54
45:QL:52:ASN:HB3	45:QL:60:VAL:CG1	2.38	0.54
44:QM:254:GLU:HG2	45:QN:98:GLY:C	2.28	0.54
44:QM:276:ILE:HG23	44:QM:281:ALA:HB2	1.90	0.54
45:QN:178:THR:HG22	45:QN:180:VAL:H	1.73	0.54
45:RB:326:VAL:O	45:RB:330:MET:HG3	2.07	0.54
44:RC:172:TYR:HB3	44:RC:173:PRO:HD2	1.89	0.54
44:RC:175:PRO:CG	44:RC:304:LYS:HD2	2.37	0.54
45:RD:134:GLN:HA	45:RD:165:GLU:HB2	1.90	0.54
45:RD:143:THR:HG23	45:RD:144:GLY:N	2.23	0.54
44:RE:254:GLU:CG	45:RF:98:GLY:HA2	2.28	0.54
45:RF:73:MET:CE	45:RF:90:PHE:HD1	2.21	0.54
45:RF:166:THR:OG1	45:RF:199:CYS:HA	2.06	0.54
45:RF:178:THR:N	45:RF:181:GLU:OE2	2.40	0.54
44:RG:183:GLU:N	44:RG:184:PRO:HD2	2.23	0.54
45:RH:138:SER:OG	45:RH:169:VAL:HB	2.08	0.54
45:RJ:60:VAL:HG23	45:RJ:84:LEU:O	2.07	0.54
45:RL:372:THR:O	45:RL:375:GLN:HG2	2.08	0.54
44:RM:188:ILE:HG21	44:RM:395:PHE:CD1	2.43	0.54
45:RN:295:ASP:OD2	45:RN:297:LYS:HG2	2.08	0.54
45:RN:407:GLU:HA	45:RN:410:GLU:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:179:THR:HB	46:SA:501:GTP:O3'	2.08	0.54
45:SB:134:GLN:HB2	45:SB:167:PHE:CZ	2.42	0.54
44:SC:93:ILE:HD12	44:SC:93:ILE:H	1.72	0.54
44:SC:139:ASN:OD1	44:SC:170:THR:HG22	2.08	0.54
45:SD:105:HIS:HD2	45:SD:150:LEU:HB2	1.73	0.54
45:SD:345:ILE:HG23	45:SD:345:ILE:O	2.07	0.54
44:SE:210:TYR:CE1	44:SE:227:LEU:HD11	2.43	0.54
45:SF:73:MET:HE1	45:SF:92:PHE:HB3	1.88	0.54
45:SF:112:LEU:O	45:SF:112:LEU:HD23	2.08	0.54
45:SF:415:MET:O	45:SF:419:VAL:HG23	2.08	0.54
44:SG:289:ALA:O	44:SG:292:THR:HG22	2.08	0.54
45:SH:40:SER:H	45:SH:43:GLN:NE2	2.06	0.54
45:SH:114:ASP:OD1	45:SH:115:SER:N	2.41	0.54
45:SJ:62:ARG:O	45:SJ:62:ARG:HG3	2.07	0.54
44:SK:101:ASN:HA	44:SK:144:GLY:N	2.22	0.54
44:SK:212:ILE:HG23	44:SK:216:ASN:ND2	2.20	0.54
45:SL:231:ALA:HB1	45:SL:270:PHE:CZ	2.43	0.54
45:SN:74:ASP:OD1	45:SN:75:SER:N	2.41	0.54
45:SN:287:PRO:CA	45:SN:290:THR:HG22	2.37	0.54
44:TA:13:GLY:N	44:TA:139:ASN:HA	2.23	0.54
44:TA:143:GLY:HA3	46:TA:501:GTP:PB	2.48	0.54
45:TB:246:LEU:HD21	46:TC:501:GTP:C8	2.34	0.54
44:TC:284:GLU:HG3	44:TC:286:LEU:HD23	1.89	0.54
44:TE:70:LEU:HD12	44:TE:145:THR:OG1	2.08	0.54
45:TF:341:PHE:CB	45:TF:348:ASN:HD21	2.11	0.54
44:TG:141:VAL:O	44:TG:141:VAL:HG12	2.07	0.54
45:TH:214:THR:O	45:TH:275:SER:HB3	2.07	0.54
45:TJ:114:ASP:HA	45:TJ:117:LEU:HB3	1.89	0.54
45:TJ:217:LEU:HD11	45:TJ:220:PRO:HB3	1.90	0.54
45:TJ:290:THR:HG21	45:TJ:329:GLN:HG2	1.90	0.54
45:TL:318:ARG:HD3	45:TL:358:PRO:HD3	1.90	0.54
45:TN:4:ILE:HD11	45:TN:133:PHE:CA	2.37	0.54
44:UA:119:LEU:HD11	44:UA:157:LEU:HD22	1.90	0.54
45:UB:165:GLU:OE2	45:UB:250:LEU:HD22	2.07	0.54
44:UC:11:GLN:HG3	44:UC:74:VAL:HG11	1.90	0.54
44:UC:248:LEU:HD12	45:UD:11:GLN:OE1	2.08	0.54
45:UD:267:MET:SD	45:UD:299:MET:CE	2.95	0.54
44:UE:88:HIS:ND1	44:UE:90:GLU:HG2	2.23	0.54
45:UF:15:GLN:OE1	45:UF:15:GLN:HA	2.08	0.54
45:UF:65:LEU:HD22	45:UF:90:PHE:CE1	2.43	0.54
44:UG:242:LEU:HD11	44:UG:252:ILE:HG13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:209:ASP:OD1	45:UH:213:ARG:HD3	2.08	0.54
44:UI:422:ARG:NH1	44:UI:426:ALA:HB2	2.22	0.54
45:UJ:403:MET:CE	45:UJ:404:ASP:H	2.20	0.54
44:UK:288:VAL:HG22	44:UK:331:SER:OG	2.07	0.54
45:UL:135:ILE:O	45:UL:166:THR:HA	2.08	0.54
45:UL:164:MET:O	45:UL:198:GLU:HB2	2.08	0.54
45:UL:315:ALA:HB3	45:UL:351:SER:CB	2.38	0.54
45:UN:127:CYS:SG	45:UN:130:LEU:HB2	2.47	0.54
45:UN:212:PHE:CB	45:UN:213:ARG:HH11	2.20	0.54
44:VA:75:ILE:HG13	44:VA:94:SER:CB	2.38	0.54
45:VB:212:PHE:CZ	45:VB:220:PRO:HG2	2.43	0.54
45:VB:382:ALA:HB2	45:VB:415:MET:HE3	1.89	0.54
44:VC:389:SER:HG	44:VC:390:ARG:H	1.56	0.54
44:VC:415:GLU:HA	44:VC:418:PHE:CD2	2.42	0.54
45:VD:330:MET:HB3	45:VD:349:ILE:HG21	1.90	0.54
44:VG:275:ILE:HG23	44:VG:368:LEU:HD13	1.89	0.54
44:VG:298:PRO:HA	44:VG:301:MET:HE1	1.90	0.54
44:VG:350:GLY:HA2	45:VJ:179:VAL:HG12	1.89	0.54
45:VJ:61:PRO:CG	45:VJ:84:LEU:HD23	2.38	0.54
45:VJ:222:TYR:HB3	48:VJ:501:GDP:O6	2.07	0.54
44:VK:213:CYS:SG	44:VK:227:LEU:HD23	2.48	0.54
45:VL:21:TRP:CZ3	45:VL:61:PRO:HB3	2.43	0.54
45:VL:47:ILE:HD13	45:VL:59:TYR:CE2	2.43	0.54
45:VL:330:MET:O	45:VL:333:VAL:HG12	2.08	0.54
44:VM:270:SER:HB3	44:VM:378:ILE:HD13	1.90	0.54
45:WB:113:ILE:HA	45:WB:147:MET:HE1	1.90	0.54
45:WB:130:LEU:HD12	45:WB:131:GLN:N	2.22	0.54
45:WD:117:LEU:HD21	45:WD:121:ARG:NH1	2.22	0.54
45:WF:91:VAL:HG21	45:WF:115:SER:CB	2.37	0.54
45:WH:192:LEU:HD21	45:WH:199:CYS:SG	2.48	0.54
44:WI:30:ILE:HG22	44:WI:31:GLN:O	2.08	0.54
44:WI:177:VAL:CG1	45:WJ:327:ASP:HB3	2.38	0.54
45:WJ:9:GLY:O	45:WJ:13:GLY:HA3	2.08	0.54
45:WJ:135:ILE:N	45:WJ:165:GLU:O	2.37	0.54
44:WM:310:GLY:HA3	44:WM:383:ALA:HB2	1.90	0.54
45:WN:139:LEU:CD1	45:WN:168:SER:HB3	2.37	0.54
5:OD:20:LYS:NZ	45:CB:54:ALA:O	2.31	0.54
5:OD:38:ILE:HD11	44:DC:84:ARG:CB	2.33	0.54
22:1L:892:ARG:HH12	44:CC:280:LYS:HZ1	1.55	0.54
10:1N:16:ILE:HG22	45:IJ:48:ASN:HB2	1.89	0.54
10:1N:159:PRO:HD3	45:KJ:227:HIS:ND1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2B:59:PHE:HE2	44:LK:82:THR:O	1.91	0.54
5:2D:35:LYS:CE	44:DK:85:GLN:HE21	2.20	0.54
31:2H:187:LEU:HD11	45:AD:276:ARG:NH2	2.09	0.54
24:2O:148:MET:HG3	44:VK:370:LYS:NZ	2.23	0.54
26:2R:93:VAL:HA	44:AG:370:LYS:HE2	1.88	0.54
12:2S:146:LYS:HD2	44:WG:123:ARG:NE	2.23	0.54
2:3A:91:ASN:HB3	45:MN:37:HIS:NE2	2.23	0.54
32:3I:228:ARG:HH11	45:GL:296:ALA:HB3	1.73	0.54
31:4H:183:PHE:CE1	45:AL:228:LEU:HD21	2.43	0.54
37:5B:58:TYR:CD2	45:KF:392:LYS:HD2	2.43	0.54
37:5C:40:VAL:HA	44:KG:264:ARG:NE	2.23	0.54
37:5D:23:LEU:HD21	45:KN:408:PHE:O	2.07	0.54
38:5E:157:ARG:HH12	45:ND:37:HIS:HB3	1.72	0.54
38:5F:126:LEU:HD13	44:NE:57:GLY:HA3	1.89	0.54
38:5H:65:GLU:OE2	45:NN:35:THR:HG21	2.08	0.54
38:5H:113:LEU:HD23	38:5H:114:PRO:O	2.07	0.54
35:5R:80:ARG:NH1	44:MI:33:ASP:OD2	2.41	0.54
35:5R:181:VAL:HG13	35:5R:182:ASP:N	2.23	0.54
35:5R:260:VAL:HG21	35:5R:276:LEU:CD1	2.38	0.54
35:5R:487:GLU:HB3	35:5R:523:PHE:HZ	1.73	0.54
36:5S:84:HIS:O	36:5S:85:ARG:HG3	2.08	0.54
41:6G:306:GLU:HB2	45:VB:306:ARG:NH2	2.23	0.54
35:6R:511:TYR:CD1	44:EM:40:LYS:HE2	2.42	0.54
35:7R:427:GLU:HB3	35:7R:507:ARG:HG3	1.90	0.54
43:8R:230:UNK:CE1	44:PE:282:TYR:HB2	2.38	0.54
44:AA:18:ASN:ND2	44:AA:78:VAL:HG21	2.23	0.54
44:AA:217:LEU:HD11	44:AA:275:ILE:CG2	2.38	0.54
44:AA:390:ARG:HG3	44:AA:391:LEU:HD12	1.89	0.54
44:AC:269:LEU:H	44:AC:269:LEU:HD23	1.72	0.54
45:AF:7:ILE:O	45:AF:7:ILE:HG23	2.08	0.54
44:AG:23:LEU:HD22	44:AG:232:ALA:HB1	1.89	0.54
44:AG:66:VAL:HG22	44:AG:68:LEU:CD2	2.38	0.54
45:AH:1:MET:HE1	45:AH:2:ARG:HD3	1.90	0.54
45:AJ:3:GLU:CD	45:AJ:127:CYS:HB2	2.28	0.54
45:AJ:396:HIS:HA	45:AJ:399:THR:CG2	2.36	0.54
44:AK:66:VAL:HG23	44:AK:91:GLN:O	2.08	0.54
44:AM:200:VAL:HG23	44:AM:268:MET:CE	2.38	0.54
44:AM:301:MET:HA	44:AM:301:MET:CE	2.38	0.54
45:AN:325:GLU:O	45:AN:328:GLU:HG2	2.08	0.54
45:AN:341:PHE:HB3	45:AN:348:ASN:HD21	1.73	0.54
45:AN:404:ASP:OD1	45:AN:407:GLU:HG3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:257:THR:HA	45:BD:397:TRP:CE2	2.42	0.54
44:BC:6:SER:HA	44:BC:136:LEU:O	2.08	0.54
44:BC:6:SER:O	44:BC:7:ILE:HD13	2.07	0.54
45:BD:141:GLY:HA2	48:BD:502:GDP:PA	2.47	0.54
45:BD:211:CYS:O	45:BD:217:LEU:HG	2.07	0.54
45:BD:301:CYS:HB3	45:BD:377:MET:CE	2.31	0.54
45:BD:309:ARG:HD2	45:BD:340:TYR:C	2.28	0.54
45:BF:114:ASP:OD1	45:BF:115:SER:N	2.41	0.54
44:BI:84:ARG:NH1	44:BI:85:GLN:HG3	2.23	0.54
44:BK:261:PRO:HD2	44:BK:265:ILE:HG23	1.90	0.54
45:BL:178:THR:H	45:BL:181:GLU:CD	2.12	0.54
44:BM:87:PHE:HB2	44:BM:92:LEU:HD11	1.89	0.54
45:CB:299:MET:HG2	45:CB:305:PRO:HG3	1.88	0.54
45:CD:318:ARG:CB	45:CD:364:ALA:HB3	2.28	0.54
45:CF:67:ASP:OD1	45:CF:68:LEU:N	2.39	0.54
45:CH:25:SER:HB2	45:CH:81:PHE:CE2	2.43	0.54
45:CH:105:HIS:CE1	45:CH:150:LEU:HD12	2.43	0.54
44:CI:363:VAL:HG22	44:CI:364:PRO:HD2	1.89	0.54
45:CJ:245:GLN:O	44:CK:15:GLN:NE2	2.41	0.54
45:CL:127:CYS:SG	45:CL:130:LEU:HD22	2.48	0.54
45:CL:153:SER:HA	45:CL:195:ASN:HD22	1.73	0.54
45:CL:324:LYS:HD2	44:CM:210:TYR:CD1	2.42	0.54
44:CM:137:VAL:HG13	44:CM:168:GLY:HA2	1.89	0.54
45:DB:66:MET:SD	45:DB:151:LEU:HD13	2.48	0.54
45:DB:318:ARG:HD3	45:DB:358:PRO:CD	2.31	0.54
44:DE:288:VAL:HG11	44:DE:327:ASP:CB	2.37	0.54
45:DH:112:LEU:HD23	45:DH:112:LEU:O	2.08	0.54
44:DI:93:ILE:HD11	44:DI:121:ARG:HG3	1.90	0.54
44:DI:118:CYS:O	44:DI:122:ILE:HD12	2.08	0.54
44:DI:175:PRO:HG2	44:DI:304:LYS:HG3	1.90	0.54
44:DI:284:GLU:HG3	44:DI:286:LEU:CD2	2.34	0.54
44:DI:288:VAL:HA	44:DI:291:ILE:CG1	2.35	0.54
45:DL:184:ASN:OD1	45:DL:398:TYR:OH	2.24	0.54
44:DM:319:TYR:HB3	44:DM:373:ARG:HH12	1.72	0.54
45:DN:378:PHE:CB	45:DN:419:VAL:HG22	2.37	0.54
44:EA:99:ALA:CB	44:EA:145:THR:HB	2.38	0.54
44:EA:136:LEU:HA	44:EA:167:LEU:O	2.08	0.54
44:EA:306:ASP:O	44:EA:383:ALA:HB1	2.08	0.54
45:ED:4:ILE:HD11	45:ED:50:TYR:OH	2.08	0.54
45:ED:257:LEU:HB3	45:ED:266:PHE:CE2	2.43	0.54
44:EI:269:LEU:H	44:EI:269:LEU:HD23	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:323:THR:O	45:EJ:326:VAL:HB	2.07	0.54
44:EK:69:ASP:OD1	44:EK:70:LEU:N	2.41	0.54
44:EK:175:PRO:HD2	44:EK:207:GLU:OE1	2.07	0.54
45:EL:257:LEU:HD12	45:EL:312:THR:HG23	1.89	0.54
44:EM:340:THR:HG23	44:EM:341:ILE:HG13	1.89	0.54
44:EM:405:VAL:O	44:EM:408:TYR:N	2.41	0.54
45:EN:136:THR:HG22	45:EN:167:PHE:CG	2.42	0.54
44:FA:96:LYS:HA	45:FB:1:MET:CE	2.36	0.54
44:FA:165:SER:HA	44:FA:199:ASP:OD2	2.07	0.54
44:FA:252:ILE:HA	44:FA:255:PHE:CE2	2.43	0.54
44:FC:245:ASP:OD1	44:FC:246:GLY:N	2.33	0.54
45:FD:101:TRP:CZ3	45:FD:187:LEU:HD13	2.42	0.54
45:FD:202:ILE:HG23	45:FD:300:MET:HB3	1.90	0.54
45:FD:267:MET:O	45:FD:368:VAL:HA	2.07	0.54
45:FF:245:GLN:HG3	45:FF:353:ILE:HG21	1.90	0.54
44:FG:70:LEU:HD11	44:FG:149:LEU:HD21	1.88	0.54
44:FG:118:CYS:SG	44:FG:153:LEU:HD21	2.48	0.54
45:FH:187:LEU:HD11	45:FH:408:PHE:CZ	2.43	0.54
44:FK:259:LEU:HD23	44:FK:314:ALA:CB	2.38	0.54
45:FL:67:ASP:OD2	45:FL:69:GLU:HG3	2.07	0.54
45:FL:208:TYR:CZ	45:FL:225:LEU:HD11	2.43	0.54
44:GA:56:THR:O	44:HA:285:GLN:HA	2.08	0.54
44:GA:175:PRO:HB3	44:GA:390:ARG:NH2	2.23	0.54
45:GB:284:LEU:O	45:GB:363:MET:HG3	2.07	0.54
44:GC:14:ILE:HD13	44:GC:74:VAL:HG23	1.90	0.54
44:GC:422:ARG:HA	44:GC:425:LEU:HB2	1.90	0.54
44:GE:89:PRO:HD3	44:HE:280:LYS:HG2	1.89	0.54
44:GG:122:ILE:O	44:GG:125:LEU:HB2	2.08	0.54
44:GG:406:HIS:CD2	45:GH:261:PRO:HD3	2.43	0.54
44:GI:49:PHE:CZ	44:GI:61:HIS:CE1	2.96	0.54
45:GJ:109:GLY:HA2	45:GJ:147:MET:CE	2.38	0.54
44:GK:150:GLY:O	44:GK:154:LEU:HG	2.08	0.54
44:GK:422:ARG:HA	44:GK:425:LEU:CD1	2.30	0.54
44:GM:53:PHE:HE2	44:GM:63:PRO:HG3	1.73	0.54
44:HA:394:LYS:O	44:HA:398:MET:HG2	2.08	0.54
44:HC:183:GLU:N	44:HC:184:PRO:HD2	2.22	0.54
44:HC:265:ILE:CD1	44:HC:435:VAL:HG21	2.37	0.54
44:HE:11:GLN:CG	44:HE:74:VAL:HG11	2.35	0.54
44:HE:101:ASN:HA	44:HE:144:GLY:HA3	1.89	0.54
45:HF:374:ILE:HD11	45:HF:422:TYR:CZ	2.43	0.54
44:HG:13:GLY:HA2	44:HG:16:VAL:CG1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:17:GLY:HA2	45:HH:20:PHE:HB3	1.90	0.54
45:HH:47:ILE:HG13	45:HH:47:ILE:O	2.08	0.54
44:HI:386:GLU:O	44:HI:390:ARG:HG2	2.07	0.54
45:IB:21:TRP:CH2	45:IB:61:PRO:HB3	2.43	0.54
45:IB:248:SER:OG	45:IB:253:LEU:HD12	2.08	0.54
44:IC:222:PRO:CG	45:ID:324:LYS:HD3	2.38	0.54
45:ID:146:GLY:O	45:ID:150:LEU:N	2.26	0.54
45:IH:310:TYR:CE1	45:IH:371:SER:HB2	2.43	0.54
44:II:74:VAL:O	44:II:78:VAL:HG23	2.07	0.54
44:II:223:THR:O	44:II:227:LEU:HG	2.08	0.54
44:II:279:GLU:OE1	44:II:280:LYS:HG2	2.08	0.54
45:IJ:55:THR:HB	44:JG:372:MET:HE3	1.87	0.54
44:IK:183:GLU:N	44:IK:184:PRO:HD2	2.22	0.54
44:IM:288:VAL:HB	44:IM:373:ARG:HE	1.71	0.54
45:IN:67:ASP:OD2	45:IN:72:THR:HG21	2.07	0.54
44:JA:185:TYR:O	44:JA:188:ILE:HG22	2.07	0.54
45:JB:33:THR:O	45:JB:58:ARG:HD2	2.08	0.54
44:JC:105:ARG:HA	44:JC:411:GLU:HG2	1.90	0.54
44:JC:387:VAL:O	44:JC:390:ARG:HG2	2.08	0.54
44:JE:222:PRO:O	45:JF:322:SER:OG	2.25	0.54
45:JH:3:GLU:HB2	45:JH:62:ARG:HH22	1.73	0.54
45:JH:101:TRP:CZ3	45:JH:187:LEU:HD22	2.43	0.54
45:JH:135:ILE:HG13	45:JH:152:ILE:CD1	2.38	0.54
44:JI:404:PHE:CZ	45:JJ:345:ILE:HD11	2.43	0.54
45:JJ:189:VAL:HG22	45:JJ:415:MET:HE1	1.90	0.54
45:JJ:256:ASN:ND2	45:JJ:350:LYS:HD2	2.22	0.54
45:JJ:285:THR:OG1	45:JJ:287:PRO:HD2	2.07	0.54
44:JK:60:LYS:HZ3	44:KK:282:TYR:HB2	1.71	0.54
44:JK:169:PHE:HD1	44:JK:202:VAL:HB	1.73	0.54
45:JL:286:VAL:HG21	45:JL:325:GLU:CB	2.27	0.54
44:JM:55:GLU:HG3	44:JM:57:GLY:N	2.23	0.54
44:JM:363:VAL:HG23	44:JM:364:PRO:HD2	1.90	0.54
44:KA:5:ILE:CD1	44:KA:126:ALA:HA	2.37	0.54
45:KB:272:PRO:HD3	45:KB:289:LEU:HD21	1.90	0.54
44:KC:288:VAL:CG1	44:KC:327:ASP:HB3	2.35	0.54
44:KE:92:LEU:CD2	44:KE:121:ARG:HG2	2.37	0.54
44:KE:145:THR:H	46:KE:501:GTP:PG	2.30	0.54
44:KE:224:TYR:CD1	44:KE:227:LEU:HD12	2.42	0.54
44:KG:195:LEU:HD11	44:KG:428:LEU:HD21	1.89	0.54
44:KI:111:GLY:HA2	44:KI:149:LEU:HD21	1.90	0.54
45:KJ:153:SER:HA	45:KJ:195:ASN:HD22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:7:ILE:HD12	44:KM:66:VAL:HG11	1.89	0.54
45:KN:240:LEU:HD23	45:KN:240:LEU:O	2.08	0.54
44:LC:137:VAL:HG12	44:LC:168:GLY:HA2	1.90	0.54
44:LE:26:LEU:HD23	44:LE:26:LEU:O	2.07	0.54
44:LE:367:ASP:OD1	44:LE:368:LEU:N	2.40	0.54
45:LF:370:ASN:OD1	45:LF:422:TYR:OH	2.26	0.54
44:LG:54:SER:HB3	44:LG:64:ARG:CZ	2.38	0.54
44:LG:249:ASN:OD1	44:LG:250:VAL:N	2.41	0.54
44:LK:287:SER:O	44:LK:291:ILE:HG23	2.07	0.54
45:LN:36:TYR:CZ	45:LN:38:GLY:HA3	2.43	0.54
45:LN:240:LEU:HD23	45:LN:240:LEU:O	2.08	0.54
45:LN:256:ASN:ND2	45:LN:350:LYS:HD2	2.23	0.54
45:LN:321:MET:SD	45:LN:353:ILE:HG23	2.48	0.54
44:MA:214:ARG:HD2	44:MA:215:ARG:N	2.23	0.54
44:MA:291:ILE:HG13	44:MA:292:THR:N	2.22	0.54
45:MF:20:PHE:HB2	45:MF:233:MET:CE	2.38	0.54
45:MF:392:LYS:HG3	45:MF:395:LEU:HD22	1.90	0.54
44:MG:42:ILE:HD12	44:MG:45:GLY:HA2	1.90	0.54
44:MG:135:PHE:CE2	44:MG:157:LEU:HD22	2.43	0.54
45:MH:256:ASN:ND2	45:MH:350:LYS:HD2	2.19	0.54
44:MI:423:GLU:O	44:MI:427:ALA:N	2.33	0.54
44:NA:1:MET:CE	45:ND:94:GLN:HB3	2.38	0.54
44:NA:189:LEU:HD21	44:NA:418:PHE:CE1	2.42	0.54
44:NA:195:LEU:HD12	44:NA:266:HIS:HE1	1.73	0.54
44:NA:411:GLU:N	44:NA:411:GLU:OE1	2.41	0.54
45:NB:40:SER:OG	45:NB:43:GLN:HG3	2.08	0.54
45:NB:116:VAL:O	45:NB:120:VAL:HG12	2.08	0.54
45:NB:207:LEU:HA	45:NB:210:ILE:HB	1.90	0.54
44:NC:177:VAL:HG22	44:NC:207:GLU:CG	2.38	0.54
45:ND:22:GLU:HG2	45:ND:81:PHE:HB2	1.88	0.54
45:ND:86:ARG:CZ	45:ND:87:PRO:HD2	2.38	0.54
45:ND:305:PRO:O	45:ND:310:TYR:HE1	1.90	0.54
45:ND:345:ILE:O	45:ND:345:ILE:HG23	2.08	0.54
44:NE:288:VAL:HG21	44:NE:327:ASP:CG	2.28	0.54
45:NH:309:ARG:O	45:NH:372:THR:HG23	2.08	0.54
44:NI:174:SER:HB2	44:NI:177:VAL:HG23	1.89	0.54
44:NI:200:VAL:HG13	44:NI:268:MET:CE	2.38	0.54
45:NL:103:LYS:N	45:NL:401:GLU:OE1	2.41	0.54
44:NM:325:PRO:O	44:NM:328:VAL:HG23	2.08	0.54
45:NN:60:VAL:HG23	45:NN:84:LEU:O	2.08	0.54
44:OA:207:GLU:HB3	44:OA:304:LYS:HZ2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:287:SER:HB3	44:OA:290:GLU:CG	2.37	0.54
44:OC:310:GLY:CA	44:OC:383:ALA:HB2	2.37	0.54
44:OC:320:ARG:NE	44:OC:360:PRO:HG3	2.22	0.54
45:OD:68:LEU:HD21	45:OD:112:LEU:HD23	1.90	0.54
45:OD:113:ILE:CD1	45:OD:150:LEU:HG	2.38	0.54
45:OD:358:PRO:HD2	45:OD:364:ALA:HB3	1.89	0.54
44:OE:115:VAL:O	44:OE:118:CYS:HB3	2.08	0.54
44:OE:288:VAL:HA	44:OE:291:ILE:HG12	1.89	0.54
45:OF:245:GLN:C	45:OF:246:LEU:HD12	2.29	0.54
44:OG:319:TYR:CE2	44:OG:328:VAL:HG22	2.43	0.54
45:OH:64:ILE:HD11	45:OH:123:GLU:HG3	1.89	0.54
45:OH:117:LEU:O	45:OH:120:VAL:HG12	2.07	0.54
44:OI:183:GLU:N	44:OI:184:PRO:HD2	2.23	0.54
45:OJ:24:ILE:HD11	45:OJ:234:SER:CB	2.37	0.54
44:OK:174:SER:CB	44:OK:207:GLU:HB2	2.38	0.54
45:OL:190:HIS:O	45:OL:193:VAL:HG12	2.08	0.54
45:ON:216:LYS:HG2	45:ON:216:LYS:O	2.08	0.54
44:PA:427:ALA:HA	44:PA:430:LYS:HZ3	1.73	0.54
45:PB:24:ILE:HG13	45:PB:28:HIS:HD2	1.72	0.54
45:PD:58:ARG:NH2	45:QB:281:TYR:HA	2.12	0.54
45:PD:217:LEU:HD12	45:PD:217:LEU:O	2.08	0.54
45:PD:331:LEU:O	45:PD:334:GLN:HB3	2.08	0.54
45:PF:208:TYR:CZ	45:PF:225:LEU:HD11	2.42	0.54
44:PG:169:PHE:HE1	44:PG:202:VAL:HG21	1.72	0.54
44:PG:172:TYR:HD2	44:PG:203:MET:SD	2.31	0.54
44:PG:184:PRO:O	44:PG:188:ILE:HG12	2.07	0.54
44:PK:80:THR:O	44:PK:80:THR:HG22	2.08	0.54
44:PK:171:ILE:HD13	46:PK:501:GTP:HN22	1.72	0.54
45:PL:182:PRO:HB3	45:PL:385:PHE:CA	2.38	0.54
45:PL:315:ALA:C	45:PL:316:LEU:HD12	2.28	0.54
44:QA:11:GLN:N	46:QA:501:GTP:O1B	2.29	0.54
44:QA:21:TRP:HZ2	44:QA:65:ALA:HB2	1.73	0.54
44:QA:207:GLU:OE1	44:QA:304:LYS:HG2	2.08	0.54
45:QB:7:ILE:HB	45:QB:135:ILE:HD11	1.87	0.54
45:QD:192:LEU:CD1	45:QD:196:ALA:HB2	2.37	0.54
45:QF:238:CYS:SG	45:QF:318:ARG:NE	2.81	0.54
44:QG:326:LYS:HD3	45:QH:212:PHE:HZ	1.72	0.54
45:QH:238:CYS:SG	45:QH:318:ARG:NE	2.80	0.54
44:QI:344:VAL:HG21	44:QI:346:TRP:CE2	2.43	0.54
44:QM:115:VAL:HG23	44:QM:153:LEU:HD23	1.90	0.54
44:QM:319:TYR:O	44:QM:356:ASN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:4:ILE:HG22	45:QN:131:GLN:HB3	1.89	0.54
45:QN:257:LEU:HA	45:QN:312:THR:HG21	1.89	0.54
45:QN:374:ILE:HG13	45:QN:378:PHE:CE2	2.43	0.54
44:RA:108:TYR:OH	44:RA:417:GLU:OE2	2.24	0.54
45:RB:64:ILE:HD13	45:RB:119:VAL:CG1	2.37	0.54
44:RC:332:ILE:HG22	44:RC:336:LYS:HZ1	1.72	0.54
45:RD:113:ILE:HD12	45:RD:150:LEU:HD22	1.89	0.54
45:RD:285:THR:OG1	45:RD:288:GLU:HG2	2.08	0.54
45:RF:288:GLU:HA	45:RF:291:GLN:CD	2.28	0.54
45:RF:323:THR:HG21	44:RG:224:TYR:CE1	2.43	0.54
44:RG:10:GLY:O	44:RG:13:GLY:N	2.41	0.54
44:RG:288:VAL:O	44:RG:291:ILE:HG12	2.08	0.54
45:RH:208:TYR:OH	45:RH:225:LEU:HD11	2.08	0.54
44:RK:9:VAL:CG2	44:RK:139:ASN:HB3	2.37	0.54
45:RL:67:ASP:O	45:RL:92:PHE:HA	2.06	0.54
45:RL:183:TYR:OH	45:RL:393:ALA:HB3	2.08	0.54
45:RL:213:ARG:HH21	45:RL:297:LYS:CD	2.20	0.54
44:RM:15:GLN:O	44:RM:18:ASN:N	2.38	0.54
44:RM:167:LEU:HD21	44:RM:255:PHE:CD2	2.42	0.54
45:RN:175:VAL:O	45:RN:175:VAL:HG23	2.08	0.54
44:SA:191:THR:HA	44:SA:194:LEU:CG	2.38	0.54
44:SA:222:PRO:HA	44:SA:226:ASN:OD1	2.08	0.54
45:SB:7:ILE:HB	45:SB:135:ILE:HD11	1.90	0.54
45:SB:19:LYS:O	45:SB:23:VAL:N	2.29	0.54
45:SD:175:VAL:O	45:SD:175:VAL:HG23	2.08	0.54
45:SD:200:MET:SD	45:SD:268:ILE:HG21	2.48	0.54
44:SE:250:VAL:O	44:SE:250:VAL:HG13	2.07	0.54
44:SG:183:GLU:N	44:SG:184:PRO:HD2	2.22	0.54
44:SG:253:THR:O	44:SG:257:THR:HG23	2.08	0.54
45:SH:4:ILE:HG22	45:SH:132:GLY:H	1.72	0.54
44:SI:183:GLU:HG2	44:SI:184:PRO:HD3	1.90	0.54
44:SI:298:PRO:O	44:SI:301:MET:HG2	2.07	0.54
45:SJ:167:PHE:CE2	45:SJ:233:MET:HG2	2.43	0.54
44:SK:259:LEU:CD2	44:SK:316:SER:HB3	2.33	0.54
44:SK:324:VAL:HG12	44:SK:326:LYS:HG2	1.90	0.54
45:SL:21:TRP:HZ3	45:SL:63:ALA:HB2	1.72	0.54
45:SL:257:LEU:HB3	45:SL:266:PHE:CZ	2.43	0.54
45:SL:372:THR:O	45:SL:375:GLN:HG2	2.08	0.54
44:SM:9:VAL:HA	44:SM:68:LEU:CB	2.38	0.54
44:SM:77:GLU:O	44:SM:81:GLY:N	2.39	0.54
45:SN:130:LEU:HG	45:SN:162:ARG:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:293:ASN:O	44:TA:297:GLU:HG3	2.07	0.54
45:TB:383:GLU:O	45:TB:386:THR:HG22	2.08	0.54
45:TD:350:LYS:HD2	44:TE:180:ALA:HB1	1.90	0.54
44:TE:313:MET:SD	44:TE:382:THR:HG22	2.47	0.54
44:TI:172:TYR:HE2	44:TI:203:MET:HE2	1.72	0.54
45:TJ:72:THR:HA	45:TJ:75:SER:OG	2.07	0.54
45:TJ:262:ARG:H	45:TJ:262:ARG:HD3	1.72	0.54
45:TL:110:ALA:O	45:TL:113:ILE:HG22	2.08	0.54
45:TL:274:THR:HG21	45:TL:279:GLN:CB	2.38	0.54
44:TM:90:GLU:O	44:TM:121:ARG:NH1	2.40	0.54
45:TN:199:CYS:N	45:TN:264:HIS:O	2.41	0.54
44:UA:269:LEU:H	44:UA:269:LEU:HD23	1.72	0.54
45:UB:162:ARG:NE	45:UB:162:ARG:HA	2.23	0.54
44:UE:325:PRO:HG3	45:UF:222:TYR:CE2	2.42	0.54
44:UG:183:GLU:N	44:UG:184:PRO:HD2	2.23	0.54
45:UH:11:GLN:CA	45:UH:14:ASN:HB2	2.35	0.54
45:UH:34:GLY:O	45:UH:58:ARG:HA	2.08	0.54
44:UI:320:ARG:HB2	44:UI:358:GLN:O	2.07	0.54
44:UM:315:CYS:N	44:UM:350:GLY:O	2.40	0.54
44:UM:405:VAL:O	44:UM:409:VAL:HG13	2.08	0.54
44:UM:424:ASP:O	44:UM:428:LEU:N	2.39	0.54
45:UN:76:VAL:O	45:UN:79:GLY:N	2.40	0.54
44:VA:254:GLU:CG	45:VD:98:GLY:HA2	2.38	0.54
45:VB:222:TYR:O	45:VB:226:ASN:ND2	2.25	0.54
45:VB:256:ASN:HB3	45:VB:350:LYS:HD2	1.90	0.54
44:VC:206:ASN:HA	44:VC:209:ILE:HD12	1.90	0.54
45:VD:36:TYR:CD2	45:VD:44:LEU:HD21	2.43	0.54
45:VD:318:ARG:CB	45:VD:364:ALA:HB3	2.37	0.54
44:VE:115:VAL:HG21	44:VE:156:ARG:HD2	1.90	0.54
44:VE:211:ASP:O	44:VE:214:ARG:N	2.29	0.54
44:VE:251:ASP:CG	44:VE:253:THR:HG22	2.28	0.54
44:VE:349:THR:O	45:VH:179:VAL:HA	2.08	0.54
45:VF:233:MET:HA	45:VF:233:MET:HE3	1.89	0.54
45:VF:257:LEU:HD21	45:VF:368:VAL:CG2	2.36	0.54
44:VG:207:GLU:OE1	44:VG:304:LYS:HG3	2.08	0.54
44:VG:265:ILE:HG23	44:VG:432:TYR:OH	2.07	0.54
44:VI:9:VAL:HG21	44:VI:149:LEU:CB	2.38	0.54
44:VI:257:THR:CA	45:VL:397:TRP:HZ3	2.20	0.54
45:VJ:289:LEU:O	45:VJ:293:MET:HB2	2.07	0.54
45:VJ:306:ARG:HG3	45:VJ:307:HIS:CD2	2.43	0.54
44:VK:217:LEU:HD12	44:VK:277:SER:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:326:LYS:CG	45:VN:220:PRO:HD2	2.36	0.54
45:VL:257:LEU:O	45:VL:312:THR:HG21	2.08	0.54
44:VM:183:GLU:HG2	44:VM:184:PRO:CD	2.38	0.54
45:VN:30:ILE:HA	45:VN:35:THR:O	2.08	0.54
45:VN:288:GLU:HA	45:VN:291:GLN:CG	2.38	0.54
44:WA:289:ALA:O	44:WA:292:THR:HG22	2.08	0.54
45:WB:86:ARG:HG3	45:WB:88:ASP:OD1	2.07	0.54
44:WC:392:ASP:OD2	44:WC:422:ARG:NH2	2.41	0.54
44:WE:181:VAL:HB	45:WF:348:ASN:HA	1.90	0.54
44:WE:380:ASN:OD1	44:WE:381:SER:N	2.40	0.54
44:WG:88:HIS:CE1	44:WG:90:GLU:HG2	2.43	0.54
44:WG:270:SER:HB3	44:WG:378:ILE:HD13	1.89	0.54
45:WH:345:ILE:O	45:WH:345:ILE:HG23	2.08	0.54
44:WI:54:SER:HB3	44:WI:64:ARG:HH21	1.73	0.54
44:WI:175:PRO:HG3	44:WI:304:LYS:HG2	1.90	0.54
44:WI:319:TYR:CE1	44:WI:375:VAL:HG21	2.42	0.54
45:WJ:170:VAL:CG2	45:WJ:171:PRO:HD2	2.37	0.54
44:WK:23:LEU:CD2	44:WK:233:GLN:HA	2.37	0.54
45:WL:206:ALA:O	45:WL:209:ASP:N	2.41	0.54
44:WM:136:LEU:CD2	44:WM:167:LEU:HB2	2.37	0.54
44:WM:404:PHE:CE2	45:WN:259:PRO:HA	2.43	0.54
45:WN:114:ASP:OD1	45:WN:115:SER:N	2.40	0.54
1:6H:344:ASN:ND2	44:FI:77:GLU:HG3	2.22	0.54
18:1F:167:HIS:HB2	44:GK:114:ILE:HD11	1.89	0.54
9:1H:297:THR:HG23	44:GC:58:ALA:HA	1.89	0.54
20:1J:76:VAL:HA	44:IC:370:LYS:HZ2	1.73	0.54
20:1J:232:LYS:NZ	45:HJ:39:ASP:O	2.41	0.54
25:1P:248:LYS:HG2	45:TF:280:GLN:OE1	2.06	0.54
22:3L:42:LYS:CG	45:BB:320:ARG:HH12	2.20	0.54
16:4X:3:ARG:CZ	45:LL:15:GLN:HE22	2.20	0.54
37:5C:67:ALA:HB1	38:5G:69:LYS:CE	2.20	0.54
37:5D:71:SER:HB3	45:NN:359:LYS:NZ	2.22	0.54
38:5G:61:LYS:NZ	45:OJ:276:ARG:HD2	2.23	0.54
11:5Q:178:PRO:HB2	11:5Q:180:GLU:CD	2.29	0.54
35:5R:95:PHE:HB3	35:5R:180:ILE:CG2	2.37	0.54
35:5R:478:ASN:ND2	35:5R:481:ASN:H	2.06	0.54
36:5S:183:TYR:CA	36:5S:187:LEU:HD13	2.38	0.54
41:6G:138:LYS:HB3	44:VG:308:ARG:HD3	1.89	0.54
35:6R:321:MET:C	45:CN:276:ARG:HH22	2.10	0.54
35:7R:145:ILE:HA	45:AD:78:ALA:O	2.07	0.54
35:7R:189:GLU:HA	35:7R:192:VAL:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:8L:343:UNK:O	42:8L:347:UNK:N	2.41	0.54
42:8N:90:UNK:O	42:8N:94:UNK:N	2.41	0.54
45:AB:325:GLU:HA	45:AB:328:GLU:CD	2.27	0.54
45:AF:180:VAL:O	45:AF:180:VAL:HG22	2.08	0.54
44:AG:174:SER:CB	44:AG:207:GLU:HB2	2.38	0.54
44:AG:217:LEU:CD2	44:AG:275:ILE:HG22	2.38	0.54
44:AI:96:LYS:HB3	45:AJ:1:MET:HE1	1.90	0.54
44:AI:96:LYS:O	45:AJ:1:MET:HE2	2.08	0.54
44:AK:7:ILE:HD13	44:AK:66:VAL:CG1	2.38	0.54
44:AK:166:LYS:C	44:AK:167:LEU:HD12	2.27	0.54
45:AL:268:ILE:HG22	45:AL:368:VAL:HG22	1.91	0.54
45:AL:293:MET:HG2	45:AL:294:PHE:CD1	2.43	0.54
45:AL:318:ARG:HD2	45:AL:358:PRO:CD	2.36	0.54
44:AM:171:ILE:HD13	44:AM:204:LEU:CB	2.38	0.54
45:BB:42:LEU:HA	45:BB:45:GLU:HG3	1.89	0.54
44:BC:70:LEU:HD13	44:BC:110:ILE:CD1	2.38	0.54
44:BE:98:ASP:OD1	44:BE:99:ALA:N	2.40	0.54
44:BE:202:VAL:HA	44:BE:268:MET:O	2.08	0.54
45:BF:187:LEU:HD11	45:BF:408:PHE:CZ	2.43	0.54
44:BG:21:TRP:O	44:BG:25:CYS:N	2.30	0.54
44:BG:291:ILE:HG13	44:BG:292:THR:N	2.23	0.54
44:BI:204:LEU:HD22	44:BI:302:MET:HG2	1.88	0.54
44:BK:102:ASN:HB3	44:BK:105:ARG:CG	2.23	0.54
45:BL:122:LYS:C	45:BL:122:LYS:HD2	2.27	0.54
45:BL:295:ASP:OD2	45:BL:297:LYS:HE2	2.07	0.54
44:BM:120:ASP:O	44:BM:123:ARG:HG2	2.08	0.54
44:BM:279:GLU:C	44:BM:280:LYS:HD3	2.28	0.54
45:BN:372:THR:HA	45:BN:422:TYR:CE2	2.38	0.54
44:CA:132:LEU:HD22	44:CA:164:LYS:CE	2.38	0.54
44:CA:324:VAL:CG1	44:CA:325:PRO:HD2	2.38	0.54
44:CC:174:SER:HB3	44:CC:177:VAL:O	2.07	0.54
44:CC:258:ASN:ND2	44:CC:352:LYS:HD3	2.23	0.54
45:CD:245:GLN:HB2	45:CD:246:LEU:HD12	1.90	0.54
45:CF:9:GLY:O	45:CF:13:GLY:HA3	2.07	0.54
45:CF:266:PHE:CD1	45:CF:370:ASN:HB2	2.42	0.54
44:CG:288:VAL:O	44:CG:291:ILE:HG13	2.08	0.54
45:CH:105:HIS:O	45:CH:106:TYR:HD1	1.91	0.54
45:CH:133:PHE:HD2	45:CH:155:VAL:HG11	1.72	0.54
45:CJ:66:MET:SD	45:CJ:116:VAL:HG21	2.47	0.54
45:CJ:117:LEU:O	45:CJ:120:VAL:HG12	2.08	0.54
45:CJ:203:ASP:OD2	45:CJ:301:CYS:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:65:LEU:HD22	45:CL:90:PHE:CE1	2.42	0.54
44:CM:66:VAL:HG22	44:CM:68:LEU:CD2	2.38	0.54
44:CM:107:HIS:HA	44:CM:152:LEU:HD22	1.90	0.54
44:CM:259:LEU:HD13	44:CM:268:MET:SD	2.47	0.54
44:CM:278:ALA:CB	44:CM:369:ALA:HB2	2.37	0.54
44:DA:141:VAL:CG1	44:DA:173:PRO:HD3	2.37	0.54
45:DB:50:TYR:CD2	45:DB:241:ARG:HD3	2.43	0.54
45:DB:117:LEU:HB2	45:DB:154:LYS:NZ	2.22	0.54
45:DB:361:LEU:HG	45:DB:362:LYS:N	2.23	0.54
45:DD:289:LEU:HD11	45:DD:363:MET:HB2	1.90	0.54
45:DD:345:ILE:HG13	44:DE:398:MET:SD	2.48	0.54
44:DG:14:ILE:CD1	44:DG:75:ILE:HD11	2.26	0.54
44:DG:346:TRP:CD1	45:DH:391:ARG:HG3	2.43	0.54
45:DH:289:LEU:HD11	45:DH:363:MET:CB	2.32	0.54
45:DH:421:GLU:O	45:DH:424:GLN:N	2.32	0.54
44:DI:32:PRO:HB3	44:DI:83:TYR:CE1	2.41	0.54
44:DI:319:TYR:HB3	44:DI:323:VAL:HG11	1.89	0.54
45:DJ:105:HIS:CE1	45:DJ:150:LEU:HD12	2.43	0.54
45:DJ:290:THR:CG2	45:DJ:329:GLN:HE21	2.16	0.54
44:DK:276:ILE:HD13	44:DK:281:ALA:HA	1.89	0.54
45:DL:31:ASP:HB3	45:DL:32:PRO:HD2	1.90	0.54
45:DL:86:ARG:CD	45:EL:281:TYR:HB3	2.34	0.54
45:DL:97:ALA:HB1	45:DL:103:LYS:HG2	1.90	0.54
45:DN:207:LEU:O	45:DN:210:ILE:HB	2.07	0.54
45:DN:342:VAL:CG1	45:DN:345:ILE:HG22	2.38	0.54
44:EA:7:ILE:HA	44:EA:66:VAL:HG12	1.87	0.54
44:EA:169:PHE:HB3	44:EA:204:LEU:CD1	2.38	0.54
45:EB:178:THR:HG22	45:EB:180:VAL:HG12	1.90	0.54
44:EC:71:GLU:OE2	44:EC:73:THR:OG1	2.16	0.54
44:EE:202:VAL:HG22	44:EE:268:MET:SD	2.48	0.54
44:EG:137:VAL:HG22	44:EG:167:LEU:O	2.08	0.54
44:EG:319:TYR:CE2	44:EG:328:VAL:HG22	2.42	0.54
44:EI:292:THR:O	44:EI:295:ALA:HB3	2.07	0.54
45:EJ:249:ASP:O	45:EJ:253:LEU:HD13	2.08	0.54
45:EJ:348:ASN:OD1	45:EJ:349:ILE:HD12	2.08	0.54
44:EK:34:GLY:O	44:EK:60:LYS:HA	2.07	0.54
45:EL:8:GLN:NE2	45:EL:65:LEU:HG	2.23	0.54
45:EL:185:ALA:O	45:EL:189:VAL:HG23	2.08	0.54
44:EM:37:PRO:CB	44:EM:40:LYS:HB2	2.38	0.54
44:EM:312:TYR:HA	44:EM:381:SER:HA	1.90	0.54
44:FA:270:SER:O	44:FA:302:MET:HE3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:7:ILE:HB	45:FB:135:ILE:CD1	2.37	0.54
45:FB:142:GLY:HA2	45:FB:184:ASN:HD22	1.72	0.54
45:FB:267:MET:HE2	45:FB:374:ILE:CG2	2.38	0.54
44:FC:426:ALA:O	44:FC:430:LYS:N	2.36	0.54
45:FD:101:TRP:HB2	45:FD:184:ASN:HB3	1.90	0.54
45:FD:183:TYR:HB3	45:FD:398:TYR:HE2	1.73	0.54
44:FE:432:TYR:O	44:FE:435:VAL:HG12	2.08	0.54
44:FG:183:GLU:HG2	44:FG:184:PRO:CD	2.38	0.54
44:FG:324:VAL:HB	44:FG:326:LYS:HZ2	1.73	0.54
45:FH:262:ARG:NH2	45:FH:421:GLU:HB3	2.22	0.54
45:FH:326:VAL:O	45:FH:329:GLN:HB2	2.08	0.54
44:FI:141:VAL:HG21	44:FI:172:TYR:CE1	2.41	0.54
45:FJ:178:THR:HB	45:FJ:181:GLU:CG	2.26	0.54
44:FK:269:LEU:HD23	44:FK:379:SER:O	2.07	0.54
44:FK:422:ARG:HH12	44:FK:426:ALA:HB2	1.72	0.54
45:FL:180:VAL:O	45:FL:180:VAL:HG22	2.08	0.54
44:FM:88:HIS:O	44:FM:91:GLN:HG2	2.07	0.54
45:FN:293:MET:HG2	45:FN:367:PHE:HB2	1.89	0.54
45:FN:312:THR:HG22	45:FN:370:ASN:CB	2.37	0.54
44:GA:262:TYR:OH	45:GD:391:ARG:O	2.23	0.54
44:GA:407:TRP:O	44:GA:411:GLU:N	2.41	0.54
45:GB:406:MET:SD	45:GB:409:THR:HB	2.47	0.54
45:GD:166:THR:O	45:GD:199:CYS:HA	2.08	0.54
44:GE:222:PRO:CG	45:GF:324:LYS:HD3	2.38	0.54
45:GF:86:ARG:HE	45:HF:281:TYR:HH	1.53	0.54
45:GF:282:ARG:HH22	45:GF:292:GLN:HG3	1.73	0.54
45:GF:309:ARG:NH2	45:GF:343:GLU:O	2.41	0.54
45:GH:253:LEU:HD21	45:GH:316:LEU:HD11	1.90	0.54
45:GH:304:ASP:OD1	45:GH:306:ARG:HG2	2.07	0.54
44:GK:70:LEU:HD11	44:GK:149:LEU:CD2	2.38	0.54
44:GK:221:ARG:CZ	45:GL:322:SER:H	2.20	0.54
45:GL:135:ILE:CG2	45:GL:152:ILE:HD11	2.35	0.54
44:GM:100:ALA:O	44:GM:101:ASN:HB2	2.08	0.54
45:GN:30:ILE:CD1	45:GN:36:TYR:HA	2.37	0.54
45:GN:134:GLN:O	45:GN:134:GLN:HG3	2.08	0.54
45:GN:319:GLY:HA2	45:GN:357:PRO:HD3	1.90	0.54
44:HC:171:ILE:HG13	44:HC:204:LEU:HB2	1.89	0.54
45:HF:258:ILE:HG13	45:HF:266:PHE:HZ	1.73	0.54
44:HG:136:LEU:CD2	44:HG:167:LEU:HB2	2.38	0.54
44:HG:290:GLU:HA	44:HG:293:ASN:HB2	1.89	0.54
44:HI:89:PRO:HG3	44:II:280:LYS:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:145:THR:HG22	46:HK:501:GTP:PB	2.48	0.54
44:HK:230:LEU:CD1	44:HK:275:ILE:HD13	2.37	0.54
44:HK:276:ILE:CD1	44:HK:281:ALA:HA	2.36	0.54
45:HN:146:GLY:C	45:HN:147:MET:HE2	2.29	0.54
45:HN:170:VAL:HG13	45:HN:201:VAL:HG23	1.88	0.54
44:IC:20:CYS:HA	44:IC:232:ALA:HB1	1.90	0.54
45:ID:151:LEU:CD2	45:ID:155:VAL:HG21	2.38	0.54
45:ID:163:ILE:HD12	45:ID:250:LEU:HB3	1.90	0.54
44:IE:5:ILE:CG2	44:IE:7:ILE:HD11	2.37	0.54
44:IE:10:GLY:HA2	44:IE:145:THR:HG23	1.89	0.54
44:IG:23:LEU:HD22	44:IG:233:GLN:HA	1.90	0.54
44:IG:294:SER:HA	44:IG:297:GLU:HG3	1.90	0.54
45:IH:10:GLY:O	45:IH:14:ASN:ND2	2.40	0.54
45:IH:86:ARG:HE	45:IH:87:PRO:HD2	1.73	0.54
44:II:71:GLU:OE1	45:IJ:247:ASN:ND2	2.41	0.54
44:II:269:LEU:HD23	44:II:379:SER:O	2.09	0.54
45:IJ:268:ILE:HA	45:IJ:367:PHE:O	2.08	0.54
44:IM:221:ARG:NH2	45:IN:321:MET:HG3	2.22	0.54
44:IM:296:PHE:CE2	44:IM:335:ILE:HG21	2.43	0.54
44:JA:103:PHE:N	44:JA:408:TYR:OH	2.22	0.54
44:JA:268:MET:HB2	44:JA:379:SER:O	2.07	0.54
45:JB:309:ARG:CZ	45:JB:342:VAL:HA	2.37	0.54
45:JB:371:SER:O	45:JB:422:TYR:OH	2.21	0.54
45:JD:169:VAL:HA	45:JD:202:ILE:O	2.07	0.54
44:JE:169:PHE:CE2	44:JE:235:ILE:HD12	2.43	0.54
45:JF:284:LEU:HD12	45:JF:362:LYS:NZ	2.23	0.54
44:JG:26:LEU:HD13	44:JG:363:VAL:HA	1.89	0.54
45:JH:297:LYS:HE2	45:JH:297:LYS:HA	1.90	0.54
45:JH:372:THR:HG22	45:JH:422:TYR:HE1	1.73	0.54
44:JI:188:ILE:CG2	44:JI:189:LEU:HD12	2.38	0.54
44:JK:16:VAL:HG21	44:JK:231:ILE:HG21	1.90	0.54
44:JK:259:LEU:HD11	44:JK:316:SER:OG	2.08	0.54
45:JL:274:THR:HG21	45:JL:282:ARG:NE	2.19	0.54
44:JM:344:VAL:HG13	44:JM:346:TRP:H	1.73	0.54
45:JN:114:ASP:OD1	45:JN:115:SER:N	2.41	0.54
44:KA:259:LEU:CB	44:KA:268:MET:HE1	2.31	0.54
45:KB:2:ARG:O	45:KB:2:ARG:HG3	2.08	0.54
45:KB:4:ILE:HG22	45:KB:132:GLY:N	2.23	0.54
44:KC:110:ILE:HG13	44:KC:110:ILE:O	2.08	0.54
44:KC:260:VAL:O	44:KC:260:VAL:HG23	2.07	0.54
45:KF:372:THR:O	45:KF:375:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KH:272:PRO:HD3	45:KH:364:ALA:HA	1.90	0.54
45:KH:285:THR:OG1	45:KH:287:PRO:HD2	2.08	0.54
45:KH:355:ASP:O	45:KH:356:ILE:HD13	2.08	0.54
44:KI:269:LEU:HD23	44:KI:379:SER:O	2.08	0.54
44:KK:22:GLU:HG3	44:KK:83:TYR:OH	2.08	0.54
44:KK:268:MET:HE2	44:KK:378:ILE:CG2	2.36	0.54
44:KK:389:SER:HA	44:KK:429:GLU:OE2	2.08	0.54
44:KM:269:LEU:H	44:KM:269:LEU:HD23	1.73	0.54
44:KM:274:PRO:HD3	44:KM:374:ALA:CB	2.38	0.54
45:LB:66:MET:SD	45:LB:116:VAL:HG21	2.48	0.54
44:LE:311:LYS:N	44:LE:382:THR:OG1	2.30	0.54
44:LG:113:GLU:O	44:LG:114:ILE:HD13	2.08	0.54
44:LI:105:ARG:HH21	44:LI:110:ILE:HG21	1.73	0.54
44:LI:167:LEU:CD2	44:LI:200:VAL:HB	2.32	0.54
44:LI:401:LYS:HD2	45:LJ:344:TRP:CG	2.43	0.54
44:LK:261:PRO:HA	45:LN:394:PHE:CD1	2.43	0.54
44:LK:292:THR:HG21	44:LK:331:SER:HB2	1.89	0.54
45:LL:143:THR:HG22	48:LL:501:GDP:O2B	2.06	0.54
44:LM:214:ARG:HH21	44:LM:215:ARG:CG	2.19	0.54
44:LM:273:ALA:O	44:LM:375:VAL:HG22	2.08	0.54
45:LN:313:ALA:HA	45:LN:369:GLY:CA	2.36	0.54
44:MA:9:VAL:CG1	44:MA:139:ASN:HB3	2.37	0.54
44:MA:276:ILE:HG23	44:MA:281:ALA:HB2	1.89	0.54
44:MC:105:ARG:HG2	44:MC:411:GLU:OE1	2.07	0.54
45:MD:248:SER:CB	45:MD:252:LYS:HD2	2.35	0.54
44:ME:282:TYR:OH	44:ME:370:LYS:N	2.41	0.54
45:MF:30:ILE:CG2	45:MF:84:LEU:HD21	2.38	0.54
44:MI:236:SER:O	44:MI:240:ALA:HB2	2.07	0.54
45:MJ:130:LEU:CD2	45:MJ:162:ARG:HG2	2.38	0.54
44:MK:1:MET:SD	45:MN:70:PRO:HG2	2.48	0.54
44:NA:176:GLN:OE1	44:NA:176:GLN:N	2.39	0.54
44:NA:205:ASP:OD2	44:NA:304:LYS:N	2.25	0.54
45:NB:207:LEU:HD23	45:NB:225:LEU:HD22	1.90	0.54
45:NB:257:LEU:HB3	45:NB:266:PHE:CZ	2.43	0.54
45:NB:268:ILE:HG13	45:NB:300:MET:CE	2.38	0.54
45:NB:405:GLU:HG2	45:NB:406:MET:N	2.23	0.54
44:NE:67:PHE:C	44:NE:68:LEU:HD12	2.29	0.54
45:NF:311:LEU:HD22	45:NF:344:TRP:HZ2	1.73	0.54
44:NG:73:THR:HB	45:NH:247:ASN:ND2	2.17	0.54
45:NH:288:GLU:O	45:NH:291:GLN:HB3	2.08	0.54
45:NJ:60:VAL:CG2	45:NJ:86:ARG:HG3	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:192:LEU:HD23	45:NJ:196:ALA:HB3	1.89	0.54
44:NK:51:THR:CG2	44:NK:243:ARG:HG2	2.31	0.54
44:NK:297:GLU:OE1	44:NK:299:ALA:HB3	2.07	0.54
45:NL:45:GLU:O	45:NL:46:ARG:NE	2.40	0.54
45:NL:113:ILE:O	45:NL:116:VAL:HG12	2.07	0.54
45:NL:323:THR:CA	45:NL:326:VAL:HB	2.38	0.54
44:NM:70:LEU:HB3	44:NM:97:GLU:O	2.08	0.54
44:NM:109:THR:HG21	44:NM:411:GLU:HG3	1.90	0.54
44:NM:425:LEU:HA	44:NM:428:LEU:HG	1.89	0.54
44:OA:93:ILE:HG21	44:OA:117:LEU:CD2	2.38	0.54
44:OA:208:ALA:HB2	44:OA:304:LYS:HD3	1.88	0.54
44:OA:224:TYR:CG	45:OB:323:THR:HG21	2.43	0.54
44:OA:349:THR:O	45:OD:179:VAL:HG23	2.07	0.54
45:OB:280:GLN:HG3	45:OB:281:TYR:CD1	2.43	0.54
44:OC:88:HIS:NE2	44:OC:90:GLU:HB3	2.23	0.54
44:OC:346:TRP:O	44:OC:346:TRP:HE3	1.90	0.54
45:OD:86:ARG:HA	45:PD:281:TYR:CD2	2.43	0.54
45:OD:217:LEU:CD1	45:OD:220:PRO:HG3	2.38	0.54
45:OD:248:SER:HA	45:OD:252:LYS:HD3	1.90	0.54
45:OD:305:PRO:HB2	45:OD:310:TYR:CE1	2.43	0.54
45:OF:345:ILE:O	45:OF:345:ILE:HG13	2.07	0.54
44:OG:205:ASP:OD2	44:OG:304:LYS:HD3	2.07	0.54
45:OH:34:GLY:HA3	45:OH:58:ARG:CG	2.31	0.54
45:OH:207:LEU:CB	45:OH:225:LEU:HD23	2.38	0.54
44:OI:102:ASN:HB3	44:OI:105:ARG:HG3	1.89	0.54
44:OK:224:TYR:HA	44:OK:227:LEU:HD13	1.89	0.54
44:OK:276:ILE:HG23	44:OK:280:LYS:HB2	1.90	0.54
45:OL:137:HIS:O	45:OL:168:SER:HA	2.08	0.54
45:OL:318:ARG:HB2	45:OL:364:ALA:HB3	1.89	0.54
44:OM:103:PHE:CE1	44:OM:148:GLY:HA2	2.43	0.54
44:OM:172:TYR:HB2	44:OM:203:MET:HE2	1.89	0.54
45:ON:407:GLU:HA	45:ON:410:GLU:OE2	2.08	0.54
45:PD:28:HIS:C	45:PD:43:GLN:HE21	2.10	0.54
45:PD:32:PRO:HG3	45:PD:81:PHE:CE1	2.42	0.54
45:PD:153:SER:HB2	45:PD:191:GLN:CG	2.38	0.54
45:PD:169:VAL:HG22	45:PD:202:ILE:CB	2.36	0.54
45:PF:130:LEU:HD21	45:PF:133:PHE:CZ	2.42	0.54
45:PJ:60:VAL:O	45:PJ:60:VAL:HG13	2.08	0.54
45:PJ:175:VAL:HG23	45:PJ:175:VAL:O	2.08	0.54
45:PJ:271:ALA:HB1	45:PJ:272:PRO:HA	1.89	0.54
44:PK:171:ILE:HG12	44:PK:204:LEU:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:311:LYS:N	44:PK:382:THR:HG1	2.06	0.54
44:PM:318:MET:HG2	44:PM:376:CYS:HB3	1.90	0.54
44:QA:14:ILE:HD11	44:QA:68:LEU:O	2.08	0.54
44:QA:16:VAL:HA	44:QA:228:ASN:HB3	1.88	0.54
44:QA:30:ILE:HA	44:QA:36:MET:HE1	1.90	0.54
44:QA:67:PHE:CB	44:QA:92:LEU:HG	2.37	0.54
45:QB:215:LEU:HD11	45:QB:228:LEU:HD21	1.89	0.54
45:QB:273:LEU:HD12	45:QB:298:ASN:OD1	2.08	0.54
44:QC:67:PHE:CD2	44:QC:92:LEU:HG	2.42	0.54
44:QC:88:HIS:HE1	44:QC:90:GLU:HG2	1.72	0.54
44:QC:98:ASP:OD1	44:QC:99:ALA:N	2.40	0.54
44:QC:230:LEU:CD1	44:QC:275:ILE:HD13	2.38	0.54
44:QC:292:THR:HG21	44:QC:331:SER:HB3	1.90	0.54
45:QD:11:GLN:HG3	45:QD:72:THR:CB	2.38	0.54
44:QI:156:ARG:O	44:QI:159:VAL:HG12	2.08	0.54
44:QI:182:VAL:O	44:QI:182:VAL:HG22	2.07	0.54
44:QI:184:PRO:O	44:QI:188:ILE:HG12	2.08	0.54
44:QI:248:LEU:CD2	44:QI:353:VAL:HG13	2.38	0.54
44:QK:258:ASN:HA	45:QL:394:PHE:HE2	1.73	0.54
44:QK:352:LYS:HE2	44:QK:352:LYS:HA	1.89	0.54
45:QN:68:LEU:HD12	45:QN:112:LEU:HD13	1.90	0.54
45:QN:146:GLY:CA	45:QN:149:THR:HG22	2.37	0.54
45:RB:327:ASP:HA	45:RB:330:MET:HE2	1.90	0.54
44:RC:292:THR:HA	44:RC:375:VAL:HG21	1.89	0.54
45:RD:20:PHE:HA	45:RD:230:SER:HB3	1.89	0.54
45:RD:127:CYS:SG	45:RD:130:LEU:HD13	2.47	0.54
44:RE:248:LEU:CB	44:RE:355:ILE:HD12	2.38	0.54
45:RF:72:THR:HG23	45:RF:73:MET:N	2.22	0.54
44:RG:88:HIS:O	44:RG:90:GLU:N	2.41	0.54
45:RH:322:SER:CB	44:RI:223:THR:HA	2.33	0.54
45:RH:345:ILE:HG13	44:RI:398:MET:HE3	1.89	0.54
45:RH:403:MET:HE1	45:RH:408:PHE:CZ	2.43	0.54
44:RI:271:SER:OG	44:RI:301:MET:HA	2.07	0.54
45:RJ:107:THR:HG23	45:RJ:108:GLU:N	2.22	0.54
45:RJ:178:THR:CG2	45:RJ:180:VAL:HG12	2.38	0.54
44:RK:13:GLY:CA	44:RK:16:VAL:HG12	2.38	0.54
44:RK:104:ALA:HB1	44:RK:411:GLU:CB	2.32	0.54
45:RL:150:LEU:HD21	45:RL:154:LYS:HE2	1.89	0.54
45:RN:378:PHE:HB3	45:RN:419:VAL:CG2	2.38	0.54
44:SA:25:CYS:HA	44:SA:30:ILE:HB	1.89	0.54
44:SA:313:MET:HB2	44:SA:381:SER:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:314:ALA:HB3	44:SA:380:ASN:CB	2.23	0.54
45:SB:325:GLU:HG3	44:SC:221:ARG:CD	2.38	0.54
44:SC:259:LEU:CD1	44:SC:316:SER:HB2	2.25	0.54
45:SD:266:PHE:CE1	45:SD:370:ASN:HB2	2.44	0.54
45:SF:20:PHE:O	45:SF:24:ILE:HG12	2.08	0.54
45:SF:131:GLN:O	45:SF:163:ILE:HG12	2.08	0.54
44:SG:206:ASN:CA	44:SG:209:ILE:HD12	2.36	0.54
44:SI:154:LEU:CA	44:SI:157:LEU:HB2	2.35	0.54
45:SJ:175:VAL:HG13	45:SJ:205:GLU:HA	1.89	0.54
45:SJ:323:THR:HG21	44:SK:224:TYR:CZ	2.42	0.54
45:SJ:345:ILE:CD1	44:SK:398:MET:HG2	2.37	0.54
44:SK:325:PRO:O	44:SK:328:VAL:HB	2.08	0.54
45:SL:207:LEU:HD23	45:SL:210:ILE:HD12	1.90	0.54
45:SL:255:VAL:HA	44:SM:407:TRP:CH2	2.43	0.54
45:SL:287:PRO:HA	45:SL:290:THR:CG2	2.38	0.54
45:SL:326:VAL:CG1	45:SL:353:ILE:HD11	2.37	0.54
44:SM:76:ASP:OD1	44:SM:79:ARG:NH2	2.41	0.54
44:SM:212:ILE:HG21	44:SM:275:ILE:HD12	1.89	0.54
44:SM:288:VAL:HA	44:SM:291:ILE:CD1	2.38	0.54
45:SN:211:CYS:HB3	45:SN:217:LEU:HD21	1.89	0.54
45:TB:134:GLN:HA	45:TB:165:GLU:O	2.08	0.54
45:TB:258:ILE:HD13	45:TB:266:PHE:HZ	1.73	0.54
44:TC:5:ILE:HB	44:TC:135:PHE:CE1	2.43	0.54
44:TC:221:ARG:O	44:TC:221:ARG:NE	2.41	0.54
45:TD:34:GLY:C	45:TD:58:ARG:HB2	2.28	0.54
45:TD:100:ASN:OD1	45:TD:102:ALA:HB3	2.08	0.54
45:TD:319:GLY:HA3	45:TD:363:MET:CE	2.37	0.54
44:TE:254:GLU:HA	44:TE:257:THR:CG2	2.38	0.54
44:TE:269:LEU:H	44:TE:269:LEU:HD23	1.73	0.54
45:TF:258:ILE:HG13	45:TF:266:PHE:CZ	2.43	0.54
45:TF:330:MET:HE1	45:TF:349:ILE:HG21	1.89	0.54
44:TG:200:VAL:HG21	44:TG:256:GLN:HB3	1.89	0.54
44:TI:377:MET:O	44:TI:378:ILE:HD13	2.07	0.54
44:TK:151:SER:HB3	44:TK:193:SER:OG	2.08	0.54
45:TL:274:THR:HG21	45:TL:279:GLN:HA	1.88	0.54
44:TM:52:PHE:O	44:TM:64:ARG:HG3	2.07	0.54
44:TM:137:VAL:CG1	44:TM:168:GLY:HA2	2.38	0.54
44:TM:151:SER:HB3	44:TM:193:SER:OG	2.08	0.54
44:TM:319:TYR:HB2	44:TM:355:ILE:CG1	2.38	0.54
44:UA:91:GLN:HE21	44:UA:121:ARG:HD2	1.71	0.54
45:UB:51:TYR:CE1	45:UB:61:PRO:HG3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:68:LEU:HD23	45:UB:97:ALA:N	2.23	0.54
44:UC:122:ILE:HG22	44:UC:161:TYR:OH	2.08	0.54
45:UD:46:ARG:NH2	44:UE:73:THR:HA	2.16	0.54
45:UD:278:SER:HA	45:UD:280:GLN:N	2.23	0.54
44:UE:23:LEU:O	44:UE:26:LEU:HB3	2.08	0.54
45:UF:210:ILE:HD11	45:UF:299:MET:O	2.08	0.54
44:UG:362:VAL:HG23	44:UG:368:LEU:O	2.08	0.54
45:UH:172:SER:HB3	45:UH:203:ASP:CG	2.28	0.54
44:UI:5:ILE:HD11	44:UI:132:LEU:CD1	2.31	0.54
44:UI:326:LYS:HA	44:UI:329:ASN:OD1	2.08	0.54
44:UI:385:ALA:HA	44:UI:388:PHE:CD2	2.42	0.54
44:UK:22:GLU:HG3	44:UK:83:TYR:CZ	2.42	0.54
45:UL:44:LEU:HD21	45:UL:59:TYR:CZ	2.44	0.54
45:UL:346:PRO:HB2	44:UM:394:LYS:HZ2	1.73	0.54
45:UN:181:GLU:HA	45:UN:184:ASN:OD1	2.08	0.54
44:VA:331:SER:O	44:VA:335:ILE:HG12	2.07	0.54
45:VB:17:GLY:O	45:VB:20:PHE:N	2.41	0.54
45:VB:203:ASP:HB2	45:VB:301:CYS:HA	1.88	0.54
44:VC:72:PRO:CG	45:VD:1:MET:HE2	2.34	0.54
44:VG:49:PHE:HE2	44:VG:55:GLU:HB2	1.72	0.54
44:VG:261:PRO:HG3	45:VJ:394:PHE:CZ	2.43	0.54
45:VH:233:MET:O	45:VH:236:VAL:HG12	2.08	0.54
44:VI:147:SER:O	44:VI:151:SER:OG	2.23	0.54
45:VJ:173:PRO:CG	45:VJ:380:ARG:HD3	2.37	0.54
44:VK:186:ASN:OD1	44:VK:187:SER:N	2.40	0.54
44:VM:101:ASN:HA	44:VM:144:GLY:N	2.23	0.54
45:VN:286:VAL:HG11	45:VN:325:GLU:OE1	2.08	0.54
45:WB:245:GLN:C	45:WB:246:LEU:HD12	2.28	0.54
44:WC:64:ARG:HD2	44:WC:129:CYS:SG	2.48	0.54
44:WC:363:VAL:HG23	44:WC:364:PRO:HD2	1.89	0.54
45:WD:185:ALA:O	45:WD:189:VAL:HG23	2.08	0.54
45:WF:257:LEU:HD21	45:WF:314:SER:HB3	1.90	0.54
44:WI:188:ILE:O	44:WI:191:THR:HB	2.08	0.54
44:WI:222:PRO:CG	45:WJ:324:LYS:HD3	2.37	0.54
45:WJ:145:SER:OG	45:WJ:184:ASN:HB2	2.07	0.54
45:WL:211:CYS:HA	45:WL:215:LEU:HB2	1.89	0.54
45:WN:20:PHE:CE1	45:WN:24:ILE:HD11	2.43	0.54
5:OD:85:VAL:HG12	45:EB:355:ASP:OD2	2.08	0.53
9:OH:415:PRO:HB3	44:GK:58:ALA:CB	2.35	0.53
19:II:216:PRO:HG2	44:LE:359:PRO:HG3	1.90	0.53
21:IK:162:GLN:HB2	44:GC:282:TYR:HE2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1R:192:ILE:HB	44:AC:39:ASP:OD2	2.07	0.53
12:1S:222:ARG:NH2	45:AF:420:SER:OG	2.41	0.53
32:2I:29:TYR:CD2	44:GG:299:ALA:HB2	2.43	0.53
25:2P:385:ILE:HD11	44:TM:282:TYR:HB3	1.90	0.53
26:2R:119:ARG:NE	45:BJ:276:ARG:HH21	2.06	0.53
13:2T:139:TYR:CD1	45:MJ:107:THR:HB	2.44	0.53
15:2V:232:ILE:CD1	45:WH:218:THR:HG22	2.37	0.53
27:2W:234:GLN:OE1	45:KN:55:THR:HA	2.08	0.53
27:2W:248:GLN:HG3	35:6R:17:PHE:CE1	2.42	0.53
16:2X:29:GLY:C	45:ML:217:LEU:HD21	2.29	0.53
2:3A:67:PRO:HD3	45:MN:53:GLU:HG2	1.90	0.53
31:3H:183:PHE:HB3	45:AH:227:HIS:CG	2.43	0.53
26:3R:97:ARG:HH22	44:AK:26:LEU:CD1	2.21	0.53
31:4H:193:LEU:CD2	45:AL:357:PRO:HG2	2.38	0.53
35:4R:107:PRO:HD3	45:BH:358:PRO:C	2.29	0.53
35:4R:174:PHE:CZ	45:AH:80:PRO:HB3	2.43	0.53
39:5K:39:PHE:O	39:5K:43:PRO:HD2	2.08	0.53
35:5R:318:TYR:CD1	35:5R:319:PRO:HD2	2.42	0.53
35:5R:425:ARG:HD2	44:EI:40:LYS:HZ2	1.72	0.53
36:5S:77:ALA:HB2	44:WE:123:ARG:HH21	1.71	0.53
41:6G:177:ARG:HD2	41:6G:179:ILE:HG12	1.90	0.53
11:6Q:29:ILE:HD11	11:6Q:34:ILE:CD1	2.39	0.53
35:6R:29:GLN:CD	44:LK:1:MET:N	2.61	0.53
35:6R:538:PHE:CE1	35:6R:578:TYR:HA	2.43	0.53
35:7R:350:PHE:O	35:7R:370:PRO:HB2	2.08	0.53
44:AA:297:GLU:OE1	44:AA:299:ALA:HB3	2.08	0.53
45:AB:54:ALA:CA	45:BB:283:ALA:HB2	2.36	0.53
45:AD:21:TRP:CA	45:AD:24:ILE:HG22	2.31	0.53
45:AD:268:ILE:HG22	45:AD:368:VAL:HA	1.89	0.53
44:AE:102:ASN:HB3	44:AE:105:ARG:CG	2.36	0.53
45:AF:58:ARG:NH2	45:BF:281:TYR:HD1	2.01	0.53
45:AH:135:ILE:HG12	45:AH:164:MET:HE2	1.88	0.53
44:AI:105:ARG:O	44:AI:110:ILE:HG12	2.08	0.53
45:AJ:7:ILE:HB	45:AJ:135:ILE:HD11	1.89	0.53
44:AK:88:HIS:ND1	44:AK:90:GLU:HG2	2.22	0.53
45:AL:3:GLU:HB2	45:AL:49:VAL:O	2.08	0.53
45:AL:6:HIS:O	45:AL:63:ALA:HA	2.08	0.53
45:AL:242:PHE:CG	45:AL:356:ILE:HG13	2.43	0.53
45:AN:86:ARG:HE	45:AN:87:PRO:HD2	1.71	0.53
45:AN:309:ARG:O	45:AN:372:THR:HG23	2.08	0.53
44:BC:254:GLU:HG2	45:BF:98:GLY:HA2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:262:ARG:C	45:BD:263:LEU:HD12	2.28	0.53
44:BE:105:ARG:O	44:BE:110:ILE:HG12	2.08	0.53
45:BF:342:VAL:HG23	45:BF:345:ILE:CG2	2.36	0.53
44:BG:87:PHE:HB3	44:BG:91:GLN:NE2	2.23	0.53
44:BG:135:PHE:O	44:BG:136:LEU:HD23	2.08	0.53
44:BG:141:VAL:CG2	44:BG:172:TYR:HA	2.38	0.53
45:BH:40:SER:O	45:BH:43:GLN:HB2	2.08	0.53
45:BH:113:ILE:O	45:BH:116:VAL:HG12	2.08	0.53
44:BI:72:PRO:HB2	45:BJ:46:ARG:HH22	1.73	0.53
44:BI:274:PRO:HG3	44:BI:286:LEU:HD12	1.90	0.53
45:BJ:141:GLY:HA3	48:BJ:502:GDP:O3A	2.09	0.53
45:BJ:377:MET:HA	45:BJ:380:ARG:HD3	1.89	0.53
44:BK:139:ASN:OD1	44:BK:170:THR:HG22	2.08	0.53
44:BK:229:ARG:HH21	44:BK:363:VAL:HG13	1.73	0.53
44:BM:185:TYR:HE1	44:BM:398:MET:CB	2.20	0.53
45:BN:314:SER:HB3	45:BN:368:VAL:CG2	2.37	0.53
44:CA:228:ASN:O	44:CA:231:ILE:N	2.41	0.53
45:CB:267:MET:N	45:CB:267:MET:SD	2.81	0.53
44:CC:115:VAL:O	44:CC:119:LEU:HD23	2.08	0.53
44:CC:229:ARG:HG2	44:CC:229:ARG:HH11	1.74	0.53
45:CD:187:LEU:HD21	45:CD:408:PHE:CE1	2.43	0.53
44:CE:256:GLN:HE22	45:CF:397:TRP:HH2	1.55	0.53
44:CE:278:ALA:HA	44:CE:369:ALA:HB2	1.90	0.53
45:CF:10:GLY:O	45:CF:14:ASN:ND2	2.40	0.53
45:CF:309:ARG:HG2	45:CF:309:ARG:NH1	2.22	0.53
45:CF:406:MET:O	45:CF:410:GLU:OE1	2.25	0.53
45:CH:178:THR:HB	45:CH:181:GLU:CG	2.38	0.53
45:CJ:206:ALA:HB1	45:CJ:300:MET:HA	1.91	0.53
45:CL:321:MET:HB2	44:CM:221:ARG:HH21	1.73	0.53
44:CM:317:MET:CE	44:CM:375:VAL:HG23	2.37	0.53
45:CN:396:HIS:HA	45:CN:399:THR:CG2	2.38	0.53
44:DA:7:ILE:N	44:DA:136:LEU:O	2.32	0.53
44:DA:174:SER:HG	44:DA:206:ASN:HB3	1.71	0.53
44:DA:216:ASN:ND2	44:DA:275:ILE:HB	2.23	0.53
45:DB:117:LEU:HD13	45:DB:154:LYS:HZ3	1.70	0.53
44:DC:108:TYR:HA	44:DC:112:LYS:HE3	1.90	0.53
44:DE:225:THR:O	44:DE:228:ASN:N	2.41	0.53
44:DE:253:THR:HG23	44:DE:254:GLU:HG3	1.90	0.53
45:DF:139:LEU:HD13	45:DF:168:SER:HB3	1.89	0.53
44:DG:269:LEU:HD23	44:DG:269:LEU:H	1.71	0.53
44:DI:23:LEU:HD23	44:DI:233:GLN:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:159:VAL:O	44:DI:159:VAL:HG22	2.09	0.53
44:DI:224:TYR:O	44:DI:228:ASN:ND2	2.41	0.53
44:DI:229:ARG:HH11	44:DI:363:VAL:HG11	1.73	0.53
45:DL:6:HIS:HB3	45:DL:63:ALA:HB2	1.89	0.53
45:DN:165:GLU:OE2	45:DN:250:LEU:HD13	2.07	0.53
44:EA:99:ALA:HB3	44:EA:145:THR:HB	1.89	0.53
45:EB:166:THR:O	45:EB:199:CYS:HA	2.07	0.53
45:EB:208:TYR:CZ	45:EB:225:LEU:HD11	2.43	0.53
45:EB:325:GLU:H	44:EC:221:ARG:HH12	1.54	0.53
44:EC:2:ARG:HH21	44:EC:243:ARG:HA	1.73	0.53
44:EC:145:THR:H	46:EC:501:GTP:PG	2.31	0.53
45:ED:138:SER:HA	45:ED:169:VAL:CG2	2.38	0.53
45:ED:324:LYS:NZ	44:EE:227:LEU:HD11	2.22	0.53
45:EF:68:LEU:CD1	45:EF:112:LEU:HD13	2.36	0.53
45:EF:186:THR:HA	45:EF:415:MET:HE1	1.91	0.53
44:EG:268:MET:HG3	44:EG:378:ILE:HG23	1.88	0.53
45:EH:208:TYR:OH	45:EH:225:LEU:HD11	2.09	0.53
44:EI:256:GLN:OE1	45:EJ:397:TRP:HH2	1.90	0.53
44:EI:261:PRO:HB3	45:EJ:394:PHE:CE2	2.43	0.53
45:EJ:61:PRO:CD	45:EJ:84:LEU:HB3	2.38	0.53
44:EK:51:THR:HG22	44:EK:52:PHE:HD1	1.72	0.53
44:EK:121:ARG:HH22	44:EK:124:LYS:HD2	1.73	0.53
44:EK:275:ILE:HA	44:EK:368:LEU:HD11	1.90	0.53
45:EL:156:ARG:CZ	45:EL:156:ARG:HB3	2.37	0.53
44:EM:7:ILE:HG23	44:EM:66:VAL:HG23	1.87	0.53
44:EM:267:PHE:HD2	44:EM:388:PHE:HZ	1.54	0.53
45:EN:118:ASP:OD1	45:EN:122:LYS:HB2	2.09	0.53
44:FA:1:MET:O	44:FA:1:MET:HG3	2.07	0.53
44:FA:64:ARG:NH1	44:FA:128:ASN:HB3	2.21	0.53
44:FA:140:SER:OG	46:FA:501:GTP:O2A	2.19	0.53
44:FA:288:VAL:O	44:FA:292:THR:HG22	2.09	0.53
45:FB:183:TYR:HA	45:FB:385:PHE:HD1	1.72	0.53
45:FB:242:PHE:HD2	45:FB:356:ILE:HG21	1.72	0.53
45:FB:268:ILE:HA	45:FB:368:VAL:HA	1.89	0.53
44:FC:293:ASN:O	44:FC:297:GLU:HG3	2.09	0.53
44:FC:361:THR:HG23	44:FC:361:THR:O	2.08	0.53
44:FE:426:ALA:HA	44:FE:429:GLU:HB2	1.88	0.53
45:FF:135:ILE:HG12	45:FF:164:MET:CE	2.38	0.53
45:FH:11:GLN:HG3	45:FH:72:THR:CB	2.38	0.53
45:FH:86:ARG:CD	45:GH:281:TYR:HB2	2.24	0.53
45:FH:304:ASP:OD1	45:FH:305:PRO:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:326:LYS:HE2	45:FL:219:THR:HA	1.88	0.53
45:FJ:163:ILE:HD12	45:FJ:250:LEU:HB3	1.90	0.53
45:FJ:308:GLY:HA3	45:FJ:372:THR:CG2	2.37	0.53
45:FL:406:MET:SD	45:FL:406:MET:N	2.82	0.53
45:FN:28:HIS:ND1	45:FN:43:GLN:HG2	2.22	0.53
44:GA:147:SER:O	44:GA:150:GLY:N	2.33	0.53
45:GB:377:MET:HA	45:GB:380:ARG:HG2	1.90	0.53
44:GE:145:THR:HG22	46:GE:501:GTP:O3G	2.08	0.53
45:GF:32:PRO:HG3	45:GF:81:PHE:CE1	2.44	0.53
45:GF:115:SER:O	45:GF:118:ASP:HB3	2.08	0.53
44:GG:99:ALA:CB	44:GG:145:THR:HB	2.38	0.53
45:GH:345:ILE:O	45:GH:345:ILE:HG23	2.09	0.53
44:GI:209:ILE:HG21	44:GI:227:LEU:HD13	1.90	0.53
44:GK:210:TYR:CE2	45:GL:324:LYS:HA	2.43	0.53
44:GK:405:VAL:O	44:GK:409:VAL:HG23	2.09	0.53
44:GM:328:VAL:HG11	44:GM:353:VAL:CG2	2.37	0.53
44:HA:174:SER:OG	44:HA:206:ASN:HB2	2.08	0.53
45:HB:100:ASN:HD22	45:HB:103:LYS:HB2	1.72	0.53
45:HB:114:ASP:OD1	45:HB:115:SER:N	2.41	0.53
45:HB:273:LEU:H	45:HB:292:GLN:NE2	2.05	0.53
45:HD:51:TYR:CE1	45:HD:61:PRO:HG3	2.44	0.53
44:HE:352:LYS:O	44:HE:352:LYS:HD2	2.08	0.53
44:HG:230:LEU:HD11	44:HG:275:ILE:HD12	1.90	0.53
45:HH:274:THR:CG2	45:HH:279:GLN:HG3	2.38	0.53
45:HL:1:MET:O	45:HL:2:ARG:HG3	2.09	0.53
45:HL:3:GLU:CD	45:HL:127:CYS:HB2	2.28	0.53
45:HL:107:THR:HG23	45:HL:108:GLU:N	2.23	0.53
44:HM:231:ILE:O	44:HM:235:ILE:HG12	2.07	0.53
44:HM:296:PHE:CE2	44:HM:335:ILE:HG21	2.42	0.53
45:HN:42:LEU:HA	45:HN:45:GLU:CG	2.38	0.53
45:HN:269:GLY:HA2	45:HN:300:MET:CE	2.38	0.53
44:IA:24:PHE:HA	44:IA:27:GLU:HG2	1.89	0.53
45:IB:169:VAL:HG11	45:IB:204:ASN:OD1	2.08	0.53
44:IC:88:HIS:HD2	45:JD:281:TYR:HB3	1.73	0.53
44:IC:417:GLU:O	44:IC:420:GLU:HG2	2.07	0.53
45:ID:62:ARG:O	45:ID:62:ARG:HG3	2.08	0.53
44:IG:70:LEU:HD11	44:IG:149:LEU:HD21	1.90	0.53
44:IG:91:GLN:HG3	44:IG:92:LEU:HD12	1.89	0.53
44:IG:203:MET:HG3	44:IG:384:ILE:CD1	2.38	0.53
44:II:296:PHE:CE2	44:II:335:ILE:HG12	2.43	0.53
45:IJ:7:ILE:CG1	45:IJ:64:ILE:HD13	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:172:TYR:HE2	44:IK:203:MET:HE2	1.73	0.53
45:IL:318:ARG:NE	45:IL:358:PRO:HD3	2.22	0.53
44:IM:12:GLY:O	44:IM:16:VAL:HG12	2.07	0.53
44:IM:21:TRP:CZ2	44:IM:65:ALA:HB2	2.43	0.53
44:IM:97:GLU:HA	44:IM:97:GLU:OE1	2.08	0.53
44:IM:373:ARG:HG3	44:IM:373:ARG:HH11	1.73	0.53
44:JA:177:VAL:CG2	45:JB:331:LEU:HD22	2.37	0.53
45:JD:293:MET:SD	45:JD:367:PHE:HB2	2.47	0.53
44:JE:66:VAL:HG22	44:JE:68:LEU:CD2	2.38	0.53
45:JF:374:ILE:O	45:JF:374:ILE:HG13	2.07	0.53
44:JG:3:GLU:HB2	44:JG:129:CYS:SG	2.48	0.53
45:JL:62:ARG:HG2	45:JL:123:GLU:OE2	2.08	0.53
44:JM:96:LYS:HD2	44:JM:97:GLU:HB3	1.88	0.53
45:JN:32:PRO:HG3	45:JN:81:PHE:CE1	2.42	0.53
45:JN:318:ARG:NH1	45:JN:358:PRO:HG3	2.22	0.53
44:KC:177:VAL:CG2	45:KD:327:ASP:HB3	2.37	0.53
45:KD:263:LEU:HG	45:KD:422:TYR:CE1	2.42	0.53
44:KE:224:TYR:HB3	46:KE:501:GTP:O6	2.08	0.53
44:KG:145:THR:HG22	46:KG:501:GTP:O3G	2.07	0.53
44:KG:252:ILE:HD12	44:KG:252:ILE:H	1.72	0.53
44:KG:338:LYS:HD2	44:KG:341:ILE:CD1	2.38	0.53
45:KH:60:VAL:O	45:KH:60:VAL:HG13	2.08	0.53
45:KH:240:LEU:O	45:KH:240:LEU:HD23	2.08	0.53
45:KH:315:ALA:C	45:KH:316:LEU:HD12	2.29	0.53
45:KJ:3:GLU:HG3	45:KJ:62:ARG:HH12	1.74	0.53
45:KJ:194:GLU:OE2	45:KJ:414:ASN:ND2	2.40	0.53
45:KL:186:THR:HA	45:KL:415:MET:HE1	1.90	0.53
44:KM:33:ASP:O	44:KM:35:GLN:NE2	2.41	0.53
45:LB:5:VAL:HG12	45:LB:62:ARG:CD	2.38	0.53
45:LB:114:ASP:HA	45:LB:117:LEU:HB3	1.89	0.53
45:LF:299:MET:HA	45:LF:299:MET:CE	2.39	0.53
44:LG:66:VAL:HG11	44:LG:122:ILE:CD1	2.32	0.53
44:LG:119:LEU:HD12	44:LG:156:ARG:HH21	1.73	0.53
44:LG:241:SER:HA	44:LG:356:ASN:HD22	1.70	0.53
44:LG:296:PHE:HE2	44:LG:335:ILE:HG21	1.73	0.53
44:LI:425:LEU:O	44:LI:428:LEU:N	2.35	0.53
45:LJ:15:GLN:HB3	45:LJ:226:ASN:ND2	2.22	0.53
45:LJ:217:LEU:CD1	45:LJ:220:PRO:HG3	2.32	0.53
45:LJ:242:PHE:CE2	45:LJ:356:ILE:HG21	2.44	0.53
45:LL:22:GLU:HG2	45:LL:81:PHE:HB2	1.88	0.53
46:MA:501:GTP:N7	45:MB:246:LEU:HD21	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:175:VAL:CG2	45:MB:205:GLU:HB2	2.38	0.53
45:MB:314:SER:CB	45:MB:350:LYS:HB3	2.37	0.53
44:MC:271:SER:HB2	44:MC:377:MET:HG2	1.89	0.53
45:MD:3:GLU:N	45:MD:3:GLU:OE1	2.41	0.53
44:ME:211:ASP:OD2	44:ME:304:LYS:NZ	2.37	0.53
45:MF:104:GLY:CA	45:MF:109:GLY:HA3	2.39	0.53
44:MG:14:ILE:HD11	44:MG:69:ASP:CB	2.33	0.53
44:MG:195:LEU:HD21	44:MG:264:ARG:NH2	2.24	0.53
44:MG:239:THR:O	44:MG:239:THR:HG22	2.08	0.53
45:MH:257:LEU:HA	45:MH:312:THR:CG2	2.37	0.53
45:MJ:52:ASN:OD1	45:MJ:53:GLU:N	2.35	0.53
44:MK:101:ASN:CG	45:ML:252:LYS:HZ2	2.08	0.53
44:MK:138:PHE:HZ	44:MK:235:ILE:HD12	1.73	0.53
44:MK:333:ALA:HB2	45:MN:174:LYS:HE3	1.90	0.53
44:MK:407:TRP:CZ3	45:ML:255:VAL:HG22	2.43	0.53
45:ML:296:ALA:HB2	45:ML:306:ARG:HH12	1.72	0.53
44:NA:52:PHE:CE2	44:NA:243:ARG:HD3	2.41	0.53
45:NB:345:ILE:O	45:NB:345:ILE:HG23	2.08	0.53
45:ND:174:LYS:HB2	45:ND:205:GLU:OE2	2.07	0.53
44:NI:103:PHE:HB2	44:NI:186:ASN:HB3	1.90	0.53
45:NL:61:PRO:CG	45:NL:84:LEU:HB3	2.35	0.53
45:NL:257:LEU:HD21	45:NL:314:SER:HB2	1.88	0.53
44:NM:174:SER:OG	44:NM:207:GLU:HG2	2.07	0.53
44:OA:384:ILE:HG23	44:OA:432:TYR:CE2	2.43	0.53
45:OB:249:ASP:O	45:OB:253:LEU:HD13	2.08	0.53
44:OC:215:ARG:HH21	44:OC:300:ASN:HD21	1.55	0.53
44:OE:88:HIS:HD2	44:PE:283:HIS:HB2	1.73	0.53
44:OG:229:ARG:O	44:OG:233:GLN:HG2	2.08	0.53
44:OG:319:TYR:HB2	44:OG:354:GLY:O	2.08	0.53
44:OG:362:VAL:HG23	44:OG:368:LEU:HB2	1.90	0.53
45:OH:201:VAL:O	45:OH:202:ILE:HD13	2.06	0.53
44:OI:183:GLU:HG3	44:OI:184:PRO:HD3	1.90	0.53
45:OJ:143:THR:HG22	48:OJ:501:GDP:PB	2.49	0.53
45:OL:344:TRP:O	45:OL:345:ILE:HG23	2.07	0.53
44:OM:181:VAL:HG12	45:ON:256:ASN:HA	1.89	0.53
45:ON:73:MET:HE2	45:ON:92:PHE:HB3	1.91	0.53
44:PA:112:LYS:HA	44:PA:115:VAL:CG1	2.38	0.53
45:PB:299:MET:HG3	45:PB:305:PRO:CG	2.35	0.53
44:PC:87:PHE:HB3	44:PC:92:LEU:CD1	2.38	0.53
45:PD:113:ILE:HD13	45:PD:154:LYS:CE	2.38	0.53
44:PE:7:ILE:CB	44:PE:137:VAL:HG23	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:91:GLN:HG3	44:PE:92:LEU:CD1	2.31	0.53
44:PE:325:PRO:O	44:PE:328:VAL:HB	2.08	0.53
45:PF:77:ARG:O	45:PF:82:GLY:HA3	2.07	0.53
45:PH:42:LEU:CD2	45:PH:356:ILE:HD11	2.38	0.53
44:PK:19:ALA:HA	44:PK:22:GLU:OE2	2.08	0.53
44:PK:107:HIS:O	44:PK:107:HIS:CG	2.60	0.53
45:PL:134:GLN:O	45:PL:135:ILE:HD13	2.08	0.53
44:PM:55:GLU:HG3	44:PM:57:GLY:H	1.73	0.53
45:PN:8:GLN:HE21	45:PN:65:LEU:CG	2.21	0.53
45:PN:274:THR:HB	45:PN:282:ARG:NH1	2.23	0.53
44:QA:119:LEU:HD12	44:QA:120:ASP:N	2.22	0.53
45:QB:274:THR:HB	45:QB:282:ARG:NH1	2.13	0.53
44:QC:224:TYR:O	44:QC:227:LEU:HB2	2.08	0.53
44:QE:352:LYS:HD2	45:QF:177:ASP:O	2.08	0.53
44:QE:356:ASN:OD1	44:QE:357:TYR:N	2.39	0.53
44:QG:326:LYS:HD3	45:QH:212:PHE:CZ	2.43	0.53
44:QG:372:MET:SD	44:QG:373:ARG:HD3	2.48	0.53
45:QH:3:GLU:HB2	45:QH:62:ARG:HH12	1.73	0.53
45:QH:314:SER:CB	45:QH:350:LYS:HB3	2.38	0.53
44:QI:121:ARG:NE	44:QI:121:ARG:HA	2.23	0.53
44:QI:291:ILE:HG12	44:QI:373:ARG:HH12	1.72	0.53
45:QJ:2:ARG:HG3	45:QJ:240:LEU:HD21	1.90	0.53
45:QJ:15:GLN:O	45:QJ:18:ALA:HB3	2.09	0.53
45:QL:12:CYS:SG	45:QL:16:ILE:HG13	2.47	0.53
45:QL:240:LEU:HD23	45:QL:240:LEU:O	2.08	0.53
45:QL:304:ASP:OD1	45:QL:306:ARG:HG2	2.09	0.53
44:QM:91:GLN:CB	44:QM:121:ARG:HH22	2.15	0.53
44:QM:141:VAL:HG22	44:QM:187:SER:OG	2.09	0.53
45:RB:1:MET:CE	45:RB:2:ARG:HD3	2.37	0.53
45:RB:145:SER:O	45:RB:149:THR:HG22	2.08	0.53
45:RD:29:GLY:O	45:RD:30:ILE:HD13	2.08	0.53
45:RD:344:TRP:HB3	45:RD:430:ALA:HB2	1.89	0.53
45:RD:420:SER:O	45:RD:423:GLN:HG3	2.09	0.53
44:RE:112:LYS:O	44:RE:115:VAL:HG12	2.07	0.53
45:RF:69:GLU:OE2	45:RF:72:THR:HG22	2.08	0.53
45:RF:166:THR:HG21	45:RF:192:LEU:HD11	1.89	0.53
45:RF:380:ARG:CA	45:RF:383:GLU:HB3	2.28	0.53
44:RI:246:GLY:HA2	44:RI:357:TYR:CD2	2.42	0.53
44:RI:389:SER:OG	44:RI:429:GLU:OE2	2.20	0.53
45:RJ:4:ILE:O	45:RJ:62:ARG:HD2	2.07	0.53
45:RJ:317:PHE:HA	45:RJ:365:VAL:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:11:GLN:H	46:RK:501:GTP:PB	2.31	0.53
45:RL:313:ALA:HA	45:RL:369:GLY:HA2	1.88	0.53
44:RM:427:ALA:HA	44:RM:430:LYS:NZ	2.23	0.53
45:RN:304:ASP:OD1	45:RN:305:PRO:HD2	2.08	0.53
45:RN:363:MET:HG2	45:RN:364:ALA:N	2.23	0.53
45:SB:30:ILE:HA	45:SB:36:TYR:HA	1.90	0.53
45:SB:101:TRP:CZ3	45:SB:187:LEU:HD13	2.43	0.53
45:SB:229:VAL:HG12	45:SB:233:MET:HE2	1.88	0.53
44:SC:323:VAL:CG2	44:SC:328:VAL:HG23	2.38	0.53
45:SD:237:THR:HG23	45:SD:241:ARG:HE	1.72	0.53
44:SE:200:VAL:HG23	44:SE:256:GLN:HG2	1.89	0.53
44:SE:269:LEU:H	44:SE:269:LEU:HD23	1.73	0.53
44:SG:1:MET:CG	44:SG:2:ARG:HH11	2.21	0.53
44:SG:169:PHE:CD1	44:SG:202:VAL:HB	2.43	0.53
44:SG:324:VAL:HG12	44:SG:326:LYS:HG3	1.89	0.53
44:SG:332:ILE:HD11	44:SG:351:PHE:CG	2.42	0.53
44:SI:205:ASP:OD1	44:SI:303:ALA:HA	2.07	0.53
45:SJ:86:ARG:HH12	45:TJ:281:TYR:HB2	1.72	0.53
45:SJ:113:ILE:HD13	45:SJ:150:LEU:CD2	2.37	0.53
45:SJ:289:LEU:HD21	45:SJ:363:MET:HE3	1.90	0.53
44:SK:183:GLU:HG2	44:SK:184:PRO:CD	2.38	0.53
45:SL:203:ASP:CB	45:SL:301:CYS:HA	2.27	0.53
45:SL:404:ASP:OD1	45:SL:407:GLU:HG3	2.09	0.53
44:SM:183:GLU:CD	44:SM:184:PRO:HD3	2.28	0.53
45:SN:283:ALA:HB3	45:SN:288:GLU:HG3	1.90	0.53
44:TA:155:GLU:O	44:TA:159:VAL:HG12	2.08	0.53
44:TE:27:GLU:HB3	44:TE:28:HIS:CE1	2.43	0.53
44:TE:313:MET:HE2	44:TE:380:ASN:HB3	1.90	0.53
45:TF:50:TYR:O	45:TF:62:ARG:HG2	2.07	0.53
45:TF:99:ASN:O	45:TF:180:VAL:HG11	2.09	0.53
45:TF:423:GLN:HA	45:TF:426:GLN:HB2	1.90	0.53
44:TG:171:ILE:HG23	44:TG:204:LEU:O	2.08	0.53
44:TG:224:TYR:HB3	46:TG:501:GTP:O6	2.09	0.53
44:TG:319:TYR:CD1	44:TG:375:VAL:HG22	2.43	0.53
44:TG:362:VAL:O	44:TG:362:VAL:HG13	2.08	0.53
45:TH:287:PRO:HA	45:TH:290:THR:CG2	2.38	0.53
44:TI:268:MET:HB3	44:TI:380:ASN:HB2	1.89	0.53
45:TJ:62:ARG:O	45:TJ:64:ILE:HD12	2.08	0.53
44:TK:91:GLN:O	44:TK:93:ILE:HD12	2.08	0.53
45:TL:244:GLY:HA2	45:TL:355:ASP:OD2	2.08	0.53
45:TL:350:LYS:HE2	44:TM:180:ALA:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:238:LEU:HD21	44:TM:255:PHE:CZ	2.43	0.53
45:TN:22:GLU:O	45:TN:26:ASP:N	2.40	0.53
45:TN:287:PRO:O	45:TN:290:THR:HG22	2.08	0.53
45:TN:342:VAL:HG13	45:TN:345:ILE:CG2	2.38	0.53
45:TN:345:ILE:O	45:TN:345:ILE:HG23	2.07	0.53
44:UA:31:GLN:CD	44:UA:33:ASP:HB2	2.29	0.53
44:UA:183:GLU:N	44:UA:184:PRO:HD2	2.23	0.53
45:UB:284:LEU:HD22	45:UB:285:THR:CG2	2.38	0.53
45:UB:406:MET:O	45:UB:410:GLU:HG3	2.08	0.53
44:UC:5:ILE:HD12	44:UC:135:PHE:CE1	2.42	0.53
45:UD:214:THR:HG21	45:UD:273:LEU:CB	2.36	0.53
45:UD:316:LEU:HB2	45:UD:366:THR:OG1	2.08	0.53
44:UE:13:GLY:O	44:UE:16:VAL:HG12	2.07	0.53
45:UF:350:LYS:HG3	44:UG:179:THR:O	2.09	0.53
44:UI:84:ARG:HG3	44:UI:85:GLN:OE1	2.08	0.53
45:UL:406:MET:HA	45:UL:409:THR:HB	1.90	0.53
44:UM:346:TRP:CD1	45:UN:391:ARG:HG3	2.43	0.53
44:VA:326:LYS:O	44:VA:329:ASN:N	2.41	0.53
45:VB:131:GLN:HG3	45:VB:250:LEU:HD12	1.89	0.53
45:VB:169:VAL:HG13	45:VB:202:ILE:HG22	1.90	0.53
45:VB:244:GLY:HA3	45:VB:354:CYS:HA	1.89	0.53
44:VC:317:MET:HE2	44:VC:332:ILE:HD11	1.90	0.53
44:VE:88:HIS:CG	44:VE:89:PRO:HD2	2.42	0.53
45:VF:189:VAL:HB	45:VF:415:MET:CE	2.38	0.53
45:VF:309:ARG:HA	45:VF:340:TYR:O	2.08	0.53
44:VG:407:TRP:HZ3	45:VH:255:VAL:O	1.90	0.53
44:VI:7:ILE:O	44:VI:137:VAL:HA	2.08	0.53
44:VI:52:PHE:HZ	44:VI:239:THR:HG21	1.71	0.53
44:VM:60:LYS:HD3	44:WM:283:HIS:NE2	2.23	0.53
44:WA:165:SER:HA	44:WA:199:ASP:OD2	2.08	0.53
44:WA:169:PHE:HZ	44:WA:238:LEU:HD13	1.73	0.53
46:WA:501:GTP:H5''	45:WB:246:LEU:HD21	1.90	0.53
45:WB:221:THR:HG22	45:WB:224:ASP:CG	2.28	0.53
44:WC:261:PRO:HA	45:WF:394:PHE:CD2	2.43	0.53
44:WC:389:SER:OG	44:WC:429:GLU:OE2	2.21	0.53
45:WD:47:ILE:HD13	45:WD:59:TYR:CE2	2.44	0.53
44:WE:214:ARG:HG3	44:WE:219:ILE:O	2.08	0.53
44:WE:324:VAL:HG13	44:WE:326:LYS:HG3	1.90	0.53
44:WK:317:MET:HA	44:WK:377:MET:HA	1.89	0.53
45:WL:217:LEU:HD11	45:WL:220:PRO:CG	2.38	0.53
44:WM:64:ARG:HH12	44:WM:129:CYS:N	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:183:GLU:HG2	44:WM:184:PRO:CD	2.38	0.53
44:WM:328:VAL:O	44:WM:332:ILE:HG12	2.07	0.53
44:WM:405:VAL:O	44:WM:408:TYR:N	2.34	0.53
45:WN:20:PHE:HE1	45:WN:24:ILE:HD11	1.72	0.53
45:WN:36:TYR:CE1	45:WN:44:LEU:HG	2.42	0.53
1:6H:174:MET:CG	45:FB:320:ARG:HD2	2.37	0.53
3:0B:290:THR:CG2	45:KL:284:LEU:HD21	2.38	0.53
3:0B:318:VAL:HG11	45:KL:77:ARG:HG3	1.88	0.53
3:0B:326:VAL:HG21	45:LL:174:LYS:NZ	2.23	0.53
15:0V:86:ARG:HH12	45:LN:414:ASN:ND2	2.04	0.53
17:1B:63:GLN:HB3	44:LC:84:ARG:NH2	2.23	0.53
4:1C:73:PRO:CD	45:DL:55:THR:HB	2.38	0.53
5:1D:93:GLN:OE1	44:EG:32:PRO:HD2	2.08	0.53
20:1J:145:ILE:HD13	44:IE:324:VAL:HG23	1.90	0.53
20:1J:314:VAL:HG13	44:IK:372:MET:HE3	1.90	0.53
22:1L:45:ARG:HH12	45:AJ:55:THR:HG21	1.71	0.53
26:1R:410:TRP:HZ2	44:EC:372:MET:HE2	1.73	0.53
32:2I:76:PRO:HG3	44:GE:339:ARG:HH22	1.70	0.53
32:2I:113:ASP:HB2	44:FC:162:GLY:N	2.23	0.53
24:2O:149:TYR:HE2	44:VK:281:ALA:HB3	1.72	0.53
24:2O:210:ILE:CD1	44:VI:279:GLU:HA	2.39	0.53
13:2T:74:ILE:CD1	44:MG:159:VAL:HG22	2.29	0.53
16:2X:25:LYS:O	45:ML:276:ARG:NH1	2.41	0.53
34:4F:139:ALA:HB3	44:IK:358:GLN:NE2	2.22	0.53
31:4H:193:LEU:CD2	45:AL:362:LYS:HA	2.37	0.53
37:5C:108:ARG:CZ	44:KI:393:HIS:ND1	2.71	0.53
37:5C:134:VAL:CG2	45:KL:427:ASP:HB3	2.38	0.53
38:5E:54:LYS:HG3	45:OB:227:HIS:NE2	2.23	0.53
39:5J:87:SER:OG	39:5J:88:PRO:HD3	2.08	0.53
11:5Q:70:GLY:HA3	11:5Q:150:GLU:OE1	2.07	0.53
11:5Q:140:THR:HG21	11:5Q:148:TYR:HB3	1.90	0.53
41:6G:150:GLU:OE1	41:6G:153:LYS:HD3	2.09	0.53
41:6G:181:GLY:HA3	44:VE:340:THR:HG22	1.90	0.53
35:7R:259:ASN:HB2	35:7R:351:ASN:HB2	1.90	0.53
35:7R:282:ASP:OD2	35:7R:306:ARG:NH2	2.41	0.53
44:AA:208:ALA:O	44:AA:211:ASP:N	2.41	0.53
45:AB:109:GLY:O	45:AB:113:ILE:HB	2.07	0.53
44:AC:76:ASP:OD2	45:AD:46:ARG:NH2	2.39	0.53
45:AD:228:LEU:HD21	45:AD:273:LEU:CD2	2.37	0.53
45:AF:286:VAL:HG12	45:AF:287:PRO:HD3	1.82	0.53
45:AF:333:VAL:O	45:AF:333:VAL:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:341:PHE:HB3	45:AF:348:ASN:HD21	1.73	0.53
45:AJ:135:ILE:HG22	45:AJ:137:HIS:HD2	1.74	0.53
45:AJ:274:THR:HG21	45:AJ:282:ARG:CD	2.32	0.53
45:AJ:293:MET:HE3	45:AJ:367:PHE:CD1	2.42	0.53
45:AL:116:VAL:O	45:AL:119:VAL:HG12	2.09	0.53
44:AM:14:ILE:CD1	44:AM:75:ILE:HD11	2.33	0.53
44:BA:262:TYR:OH	45:BD:391:ARG:O	2.10	0.53
44:BA:324:VAL:HG12	44:BA:326:LYS:HE2	1.90	0.53
44:BG:1:MET:O	44:BG:1:MET:HG3	2.08	0.53
44:BG:224:TYR:CE1	45:BH:323:THR:HG21	2.44	0.53
45:BH:377:MET:O	45:BH:380:ARG:HG2	2.08	0.53
44:BK:105:ARG:HG2	44:BK:411:GLU:HG3	1.91	0.53
44:BK:348:PRO:CG	45:BN:384:GLN:HG3	2.33	0.53
44:BM:88:HIS:CE1	44:BM:90:GLU:HG2	2.42	0.53
44:BM:295:ALA:HB1	44:BM:377:MET:HE3	1.90	0.53
44:CA:231:ILE:O	44:CA:234:VAL:HG22	2.08	0.53
44:CA:426:ALA:C	44:CA:430:LYS:HZ2	2.12	0.53
45:CD:272:PRO:HA	45:CD:292:GLN:OE1	2.08	0.53
45:CF:86:ARG:CG	45:DF:281:TYR:HB3	2.38	0.53
44:CG:209:ILE:HB	44:CG:227:LEU:HD11	1.89	0.53
44:CG:273:ALA:HB1	44:CG:274:PRO:HA	1.91	0.53
44:CG:276:ILE:HD11	44:CG:281:ALA:HA	1.89	0.53
45:CH:1:MET:HE2	44:CI:96:LYS:O	2.07	0.53
45:CH:178:THR:CG2	45:CH:180:VAL:HG22	2.37	0.53
44:CI:89:PRO:HB3	44:DI:280:LYS:CE	2.38	0.53
45:CJ:152:ILE:HD12	45:CJ:164:MET:HE2	1.90	0.53
45:CJ:318:ARG:O	45:CJ:363:MET:HB2	2.08	0.53
44:CK:71:GLU:OE1	44:CK:73:THR:HB	2.08	0.53
44:CM:217:LEU:CD1	44:CM:277:SER:HA	2.38	0.53
45:DB:6:HIS:HA	45:DB:134:GLN:O	2.07	0.53
44:DC:69:ASP:OD1	44:DC:70:LEU:N	2.41	0.53
44:DC:141:VAL:HG21	44:DC:172:TYR:HE1	1.73	0.53
44:DC:370:LYS:O	44:DC:370:LYS:HG3	2.08	0.53
44:DC:386:GLU:HG3	44:DC:387:VAL:N	2.23	0.53
45:DD:81:PHE:HB3	45:DD:84:LEU:HD13	1.91	0.53
45:DD:105:HIS:ND1	45:DD:150:LEU:HD12	2.23	0.53
45:DD:240:LEU:HD12	45:DD:249:ASP:CB	2.37	0.53
45:DF:107:THR:HG21	45:DF:401:GLU:OE1	2.07	0.53
45:DF:252:LYS:HA	44:DG:100:ALA:HB1	1.88	0.53
45:DF:347:ASN:O	44:DG:181:VAL:HG22	2.08	0.53
44:DG:103:PHE:CD2	44:DG:189:LEU:HD13	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:101:TRP:HB2	45:DH:184:ASN:OD1	2.07	0.53
45:DH:294:PHE:HD2	45:DH:333:VAL:HG11	1.71	0.53
44:DI:217:LEU:CD2	44:DI:275:ILE:HG22	2.36	0.53
45:DL:200:MET:CE	45:DL:266:PHE:HB2	2.19	0.53
45:DL:272:PRO:HB3	45:DL:282:ARG:NH2	2.23	0.53
44:DM:18:ASN:O	44:DM:22:GLU:OE1	2.25	0.53
44:DM:270:SER:HB2	44:DM:377:MET:O	2.08	0.53
45:DN:211:CYS:HB3	45:DN:220:PRO:CG	2.38	0.53
44:EA:35:GLN:HE22	44:EA:38:SER:HB2	1.73	0.53
44:EA:208:ALA:HB2	44:EA:304:LYS:HB3	1.91	0.53
45:EB:154:LYS:O	45:EB:158:GLU:HG3	2.08	0.53
45:ED:238:CYS:SG	45:ED:318:ARG:NE	2.81	0.53
45:EF:14:ASN:OD1	45:EF:67:ASP:HB2	2.07	0.53
45:EF:178:THR:HG22	45:EF:180:VAL:H	1.71	0.53
45:EJ:101:TRP:CE3	45:EJ:187:LEU:HD13	2.43	0.53
45:EJ:269:GLY:HA3	45:EJ:299:MET:HE2	1.90	0.53
44:EK:121:ARG:NH2	44:EK:124:LYS:HD2	2.23	0.53
44:EK:270:SER:HB3	44:EK:378:ILE:HD13	1.90	0.53
45:EL:268:ILE:HG22	45:EL:368:VAL:HG13	1.90	0.53
44:EM:174:SER:OG	44:EM:207:GLU:HB2	2.08	0.53
45:EN:99:ASN:C	45:EN:142:GLY:HA3	2.29	0.53
45:FB:32:PRO:HG3	45:FB:81:PHE:CE1	2.43	0.53
45:FB:215:LEU:CD2	45:FB:273:LEU:HD22	2.37	0.53
45:FB:221:THR:HG23	45:FB:223:GLY:N	2.24	0.53
45:FB:330:MET:SD	45:FB:349:ILE:HG21	2.48	0.53
45:FB:334:GLN:HE22	45:FB:348:ASN:H	1.56	0.53
44:FC:363:VAL:HG13	44:FC:366:GLY:CA	2.28	0.53
44:FC:421:ALA:O	44:FC:424:ASP:N	2.41	0.53
45:FD:112:LEU:O	45:FD:112:LEU:HD23	2.08	0.53
44:FE:205:ASP:OD1	44:FE:303:ALA:HA	2.07	0.53
44:FE:224:TYR:HB3	46:FE:501:GTP:O6	2.08	0.53
45:FH:383:GLU:O	45:FH:386:THR:HG22	2.07	0.53
44:FI:156:ARG:HH11	44:FI:156:ARG:HG2	1.72	0.53
45:FJ:392:LYS:HG3	45:FJ:395:LEU:HD22	1.90	0.53
44:FK:355:ILE:O	44:FK:355:ILE:HG23	2.09	0.53
45:FN:169:VAL:HA	45:FN:202:ILE:O	2.08	0.53
45:GB:36:TYR:CE2	45:GB:44:LEU:HD21	2.43	0.53
44:GC:311:LYS:HG3	44:GC:342:GLN:NE2	2.13	0.53
45:GD:54:ALA:HB3	45:GD:58:ARG:C	2.27	0.53
44:GE:55:GLU:HG3	44:GE:57:GLY:H	1.72	0.53
45:GF:283:ALA:O	45:GF:288:GLU:HG3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:322:SER:OG	45:GF:325:GLU:HG2	2.09	0.53
45:GJ:200:MET:CE	45:GJ:266:PHE:HD2	2.22	0.53
45:GJ:290:THR:O	45:GJ:293:MET:HB3	2.08	0.53
44:GK:229:ARG:NE	44:GK:363:VAL:HG11	2.23	0.53
45:GL:180:VAL:HG23	45:GL:183:TYR:HD2	1.74	0.53
44:HA:2:ARG:HH21	44:HA:243:ARG:HA	1.73	0.53
45:HB:4:ILE:HG21	45:HB:250:LEU:CD1	2.38	0.53
45:HB:228:LEU:O	45:HB:231:ALA:HB3	2.08	0.53
44:HC:87:PHE:HB3	44:HC:91:GLN:HE21	1.73	0.53
44:HC:96:LYS:HG2	45:HD:1:MET:HE2	1.91	0.53
44:HE:3:GLU:OE2	44:HE:129:CYS:HB3	2.08	0.53
44:HE:239:THR:HG23	44:HE:243:ARG:NH1	2.23	0.53
45:HF:295:ASP:OD1	45:HF:297:LYS:HG2	2.07	0.53
45:HJ:36:TYR:CE1	45:HJ:44:LEU:HD21	2.44	0.53
44:HK:12:GLY:O	44:HK:16:VAL:HG23	2.08	0.53
45:HL:274:THR:CG2	45:HL:279:GLN:HA	2.37	0.53
45:HL:300:MET:HA	45:HL:300:MET:HE2	1.90	0.53
45:HN:113:ILE:HD13	45:HN:154:LYS:HD2	1.89	0.53
44:IA:115:VAL:O	44:IA:119:LEU:HD23	2.08	0.53
44:IA:139:ASN:OD1	44:IA:170:THR:HG22	2.08	0.53
45:IB:28:HIS:CG	45:IB:47:ILE:HD13	2.43	0.53
45:IB:130:LEU:CD2	45:IB:162:ARG:HD2	2.32	0.53
45:IB:252:LYS:O	45:IB:255:VAL:HB	2.09	0.53
44:IC:80:THR:CA	44:IC:84:ARG:HD2	2.34	0.53
44:IC:289:ALA:O	44:IC:292:THR:HG22	2.08	0.53
45:ID:293:MET:HE3	45:ID:315:ALA:HB2	1.90	0.53
44:IE:220:GLU:O	44:IE:221:ARG:HD2	2.08	0.53
45:IF:101:TRP:CD2	45:IF:187:LEU:HD13	2.44	0.53
45:IF:142:GLY:N	48:IF:501:GDP:O2B	2.40	0.53
44:IG:151:SER:HB3	44:IG:193:SER:OG	2.08	0.53
45:IH:207:LEU:HD23	45:IH:300:MET:SD	2.49	0.53
45:IH:377:MET:O	45:IH:380:ARG:HG2	2.07	0.53
44:II:2:ARG:HD2	44:II:242:LEU:O	2.07	0.53
44:II:363:VAL:CG2	44:II:364:PRO:HD2	2.38	0.53
45:IL:67:ASP:HB3	45:IL:73:MET:SD	2.49	0.53
45:IL:193:VAL:HA	45:IL:264:HIS:NE2	2.23	0.53
45:IN:116:VAL:HA	45:IN:119:VAL:CG1	2.38	0.53
45:IN:282:ARG:NH1	45:IN:292:GLN:OE1	2.30	0.53
44:JC:121:ARG:NH2	44:JC:124:LYS:HD2	2.24	0.53
45:JD:4:ILE:HD11	45:JD:50:TYR:HE1	1.71	0.53
45:JD:375:GLN:C	45:JD:379:LYS:HE3	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:202:ILE:HG21	45:JF:229:VAL:HG22	1.90	0.53
44:JG:217:LEU:CD2	44:JG:275:ILE:HG22	2.38	0.53
44:JG:238:LEU:HD11	44:JG:255:PHE:HE2	1.68	0.53
44:JI:135:PHE:HB2	44:JI:166:LYS:CG	2.34	0.53
44:JI:311:LYS:HD3	44:JI:342:GLN:CG	2.37	0.53
45:JJ:321:MET:HE3	45:JJ:326:VAL:HG21	1.90	0.53
44:JK:320:ARG:HA	44:JK:356:ASN:O	2.07	0.53
45:JL:272:PRO:HD3	45:JL:364:ALA:HA	1.91	0.53
44:JM:134:GLY:HA2	44:JM:164:LYS:HZ1	1.73	0.53
45:JN:86:ARG:HG2	45:JN:88:ASP:H	1.74	0.53
45:JN:175:VAL:N	45:JN:205:GLU:OE2	2.41	0.53
45:KB:61:PRO:HG3	45:KB:84:LEU:C	2.29	0.53
45:KB:315:ALA:C	45:KB:316:LEU:HD12	2.29	0.53
44:KC:403:ALA:HB2	45:KD:344:TRP:HZ3	1.74	0.53
45:KD:325:GLU:O	45:KD:329:GLN:HB2	2.08	0.53
44:KG:23:LEU:HD21	44:KG:236:SER:CB	2.35	0.53
45:KH:328:GLU:HG3	45:KH:329:GLN:NE2	2.18	0.53
45:KH:413:SER:O	45:KH:416:ASN:HB2	2.08	0.53
44:KI:257:THR:HG21	45:KL:98:GLY:O	2.08	0.53
44:KI:433:GLU:OE1	44:KI:433:GLU:HA	2.07	0.53
44:KK:49:PHE:HB2	44:KK:53:PHE:CD1	2.43	0.53
45:KL:162:ARG:NH1	45:KL:162:ARG:HG2	2.22	0.53
45:KL:208:TYR:CE1	45:KL:225:LEU:HD11	2.42	0.53
45:KL:272:PRO:HA	45:KL:292:GLN:NE2	2.22	0.53
44:KM:400:ALA:C	44:KM:401:LYS:HD2	2.28	0.53
45:LB:201:VAL:HG23	45:LB:301:CYS:SG	2.48	0.53
44:LC:259:LEU:HD13	44:LC:268:MET:CE	2.38	0.53
44:LE:88:HIS:CE1	44:LE:90:GLU:HG2	2.43	0.53
45:LF:97:ALA:HB1	45:LF:143:THR:H	1.73	0.53
44:LG:119:LEU:HD12	44:LG:156:ARG:NH2	2.23	0.53
44:LG:346:TRP:CE3	44:LG:347:CYS:HB2	2.44	0.53
44:LG:404:PHE:CE2	45:LH:259:PRO:HA	2.43	0.53
45:LH:100:ASN:HB3	45:LH:103:LYS:HD3	1.90	0.53
44:LI:72:PRO:HG3	44:LI:95:GLY:O	2.08	0.53
44:LI:423:GLU:HA	44:LI:426:ALA:HB3	1.91	0.53
45:LJ:286:VAL:HB	45:LJ:325:GLU:CD	2.28	0.53
45:LL:7:ILE:CD1	45:LL:64:ILE:HG13	2.36	0.53
45:LL:105:HIS:HD2	45:LL:149:THR:HG23	1.73	0.53
45:LL:113:ILE:O	45:LL:117:LEU:HG	2.09	0.53
44:LM:72:PRO:HG2	45:LN:1:MET:SD	2.48	0.53
44:LM:207:GLU:HA	44:LM:210:TYR:CD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LM:265:ILE:HG13	44:LM:265:ILE:O	2.08	0.53
45:LN:265:PHE:HB3	45:LN:374:ILE:CD1	2.38	0.53
44:ME:156:ARG:HG3	44:ME:160:ASP:OD2	2.08	0.53
45:MH:110:ALA:O	45:MH:113:ILE:HG22	2.08	0.53
45:MH:253:LEU:O	45:MH:257:LEU:HD13	2.07	0.53
44:MI:52:PHE:CE1	44:MI:239:THR:HG21	2.42	0.53
45:MJ:3:GLU:HB3	45:MJ:49:VAL:HA	1.91	0.53
45:MJ:127:CYS:SG	45:MJ:130:LEU:HB2	2.48	0.53
45:MJ:362:LYS:HE2	45:MJ:363:MET:HE2	1.88	0.53
44:MM:230:LEU:CD1	44:MM:368:LEU:HD21	2.38	0.53
45:MN:310:TYR:HB2	45:MN:341:PHE:CE1	2.43	0.53
45:MN:317:PHE:HA	45:MN:365:VAL:HG22	1.90	0.53
44:NA:242:LEU:HD21	44:NA:252:ILE:CG2	2.39	0.53
44:NC:91:GLN:HB3	44:NC:121:ARG:CZ	2.38	0.53
45:ND:21:TRP:CZ3	45:ND:61:PRO:HB3	2.43	0.53
45:ND:113:ILE:O	45:ND:116:VAL:HG12	2.08	0.53
45:ND:167:PHE:HZ	45:ND:233:MET:HA	1.73	0.53
44:NE:287:SER:HB3	44:NE:290:GLU:CD	2.29	0.53
45:NF:304:ASP:OD1	45:NF:305:PRO:HD2	2.08	0.53
45:NF:309:ARG:NH1	45:NF:342:VAL:HA	2.23	0.53
44:NG:68:LEU:HD21	44:NG:118:CYS:CB	2.35	0.53
45:NH:7:ILE:HD13	45:NH:133:PHE:HD2	1.73	0.53
45:NH:279:GLN:HB2	45:NH:281:TYR:HE1	1.74	0.53
44:NI:270:SER:HB2	44:NI:378:ILE:HD13	1.91	0.53
44:NI:288:VAL:HA	44:NI:291:ILE:CG1	2.36	0.53
44:NI:332:ILE:O	44:NI:336:LYS:HG3	2.07	0.53
45:NJ:131:GLN:N	45:NJ:162:ARG:HH22	2.05	0.53
45:NJ:323:THR:O	45:NJ:326:VAL:HB	2.08	0.53
44:NK:199:ASP:O	44:NK:266:HIS:ND1	2.41	0.53
45:NN:86:ARG:HG3	45:NN:89:ASN:H	1.73	0.53
45:NN:156:ARG:NH1	45:NN:197:ASP:OD1	2.41	0.53
44:OA:62:VAL:CG1	44:OA:63:PRO:HA	2.36	0.53
44:OA:99:ALA:CA	44:OA:105:ARG:HD3	2.37	0.53
44:OA:257:THR:HG21	45:OD:98:GLY:O	2.07	0.53
45:OB:183:TYR:HE2	45:OB:394:PHE:HB2	1.73	0.53
44:OC:84:ARG:HE	44:OC:85:GLN:HE22	1.56	0.53
44:OC:265:ILE:HD12	44:OC:432:TYR:CZ	2.43	0.53
45:OD:137:HIS:HB2	45:OD:144:GLY:O	2.08	0.53
45:OD:348:ASN:O	45:OD:349:ILE:HD13	2.07	0.53
44:OE:238:LEU:HG	44:OE:255:PHE:CE2	2.43	0.53
45:OF:282:ARG:NH1	45:OF:284:LEU:HA	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:7:ILE:HG23	45:OH:135:ILE:HD13	1.89	0.53
45:OH:7:ILE:HG12	45:OH:135:ILE:HD13	1.88	0.53
45:OH:237:THR:HG23	45:OH:240:LEU:CB	2.38	0.53
44:OI:101:ASN:OD1	45:OJ:252:LYS:HG3	2.08	0.53
44:OI:209:ILE:HD11	44:OI:302:MET:HB3	1.90	0.53
45:OJ:423:GLN:NE2	45:OJ:427:ASP:OD2	2.41	0.53
44:OK:85:GLN:OE1	44:OK:85:GLN:N	2.38	0.53
44:OK:297:GLU:HB2	44:OK:300:ASN:OD1	2.07	0.53
45:OL:240:LEU:O	45:OL:240:LEU:HD23	2.08	0.53
44:OM:105:ARG:HH12	45:ON:251:ARG:HH11	1.57	0.53
45:ON:318:ARG:HD3	45:ON:358:PRO:CG	2.34	0.53
44:PA:34:GLY:HA3	44:PA:60:LYS:CD	2.38	0.53
44:PC:407:TRP:HZ2	45:PD:258:ILE:CD1	2.20	0.53
45:PD:234:SER:O	45:PD:237:THR:HG22	2.08	0.53
44:PE:179:THR:HG23	45:PF:351:SER:HB2	1.89	0.53
44:PG:152:LEU:O	44:PG:156:ARG:N	2.36	0.53
44:PG:210:TYR:CZ	45:PH:324:LYS:HB2	2.43	0.53
44:PG:224:TYR:HD2	46:PG:501:GTP:O6	1.91	0.53
44:PG:262:TYR:HB3	44:PG:263:PRO:HD2	1.89	0.53
45:PH:299:MET:HE3	45:PH:305:PRO:HG2	1.89	0.53
44:PM:183:GLU:N	44:PM:184:PRO:HD2	2.23	0.53
44:PM:225:THR:O	44:PM:229:ARG:HG3	2.09	0.53
45:QB:9:GLY:HA2	45:QB:14:ASN:HD21	1.73	0.53
45:QB:348:ASN:HA	44:QC:181:VAL:HG12	1.91	0.53
44:QC:22:GLU:HG3	44:QC:83:TYR:CE2	2.43	0.53
45:QD:105:HIS:HD2	45:QD:149:THR:HG23	1.73	0.53
44:QE:169:PHE:HD1	44:QE:202:VAL:HB	1.71	0.53
45:QF:139:LEU:HD23	45:QF:188:SER:OG	2.09	0.53
45:QF:377:MET:O	45:QF:380:ARG:HG2	2.09	0.53
45:QH:244:GLY:HA2	45:QH:355:ASP:OD2	2.09	0.53
44:QI:276:ILE:HG23	44:QI:281:ALA:HB2	1.89	0.53
45:QL:119:VAL:HG23	45:QL:122:LYS:NZ	2.23	0.53
45:QL:315:ALA:HB3	45:QL:351:SER:CB	2.38	0.53
44:QM:188:ILE:HD13	44:QM:395:PHE:CD1	2.43	0.53
44:RA:225:THR:O	44:RA:229:ARG:HD3	2.09	0.53
44:RA:320:ARG:CG	44:RA:374:ALA:HB3	2.37	0.53
45:RB:105:HIS:HB2	45:RB:146:GLY:HA3	1.89	0.53
45:RB:251:ARG:NH2	44:RC:100:ALA:HB3	2.23	0.53
45:RD:62:ARG:HD3	45:RD:123:GLU:OE2	2.08	0.53
45:RD:303:ALA:HB2	45:RD:377:MET:CE	2.36	0.53
45:RD:354:CYS:SG	45:RD:355:ASP:N	2.80	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:143:THR:HG23	45:RF:144:GLY:N	2.21	0.53
45:RF:231:ALA:HA	45:RF:234:SER:OG	2.08	0.53
44:RG:268:MET:HG2	44:RG:380:ASN:HB2	1.89	0.53
45:RH:285:THR:N	45:RH:288:GLU:OE1	2.42	0.53
44:RI:182:VAL:HG22	44:RI:182:VAL:O	2.07	0.53
45:RJ:260:PHE:HA	44:RK:406:HIS:CD2	2.43	0.53
45:RJ:342:VAL:HG22	45:RJ:343:GLU:N	2.23	0.53
44:RK:289:ALA:CA	44:RK:292:THR:HG22	2.38	0.53
44:RK:317:MET:O	44:RK:353:VAL:HA	2.08	0.53
44:RM:100:ALA:HA	46:RM:501:GTP:O2G	2.08	0.53
44:SA:275:ILE:HG23	44:SA:368:LEU:HD11	1.89	0.53
44:SE:56:THR:HG23	44:SE:58:ALA:N	2.23	0.53
44:SE:98:ASP:OD2	44:SE:100:ALA:HA	2.09	0.53
44:SE:275:ILE:HG23	44:SE:368:LEU:CD1	2.39	0.53
45:SF:334:GLN:HA	45:SF:341:PHE:CE2	2.44	0.53
45:SF:404:ASP:HB2	45:SF:406:MET:HE1	1.90	0.53
44:SG:104:ALA:HB3	44:SG:411:GLU:HB2	1.90	0.53
45:SH:256:ASN:C	45:SH:257:LEU:HD12	2.28	0.53
45:SH:287:PRO:HB3	45:SH:329:GLN:CD	2.29	0.53
44:SK:297:GLU:HG3	44:SK:298:PRO:HD2	1.89	0.53
45:SL:274:THR:CG2	45:SL:282:ARG:HD3	2.38	0.53
44:SM:118:CYS:O	44:SM:122:ILE:N	2.29	0.53
44:SM:141:VAL:HG23	44:SM:190:SER:OG	2.08	0.53
45:SN:40:SER:OG	45:SN:43:GLN:HG3	2.08	0.53
44:TA:4:VAL:HG12	44:TA:51:THR:CG2	2.38	0.53
44:TA:13:GLY:HA3	44:TA:139:ASN:HA	1.88	0.53
44:TA:68:LEU:HD22	44:TA:153:LEU:HD11	1.91	0.53
44:TA:285:GLN:HG3	44:TA:287:SER:H	1.72	0.53
45:TB:316:LEU:O	45:TB:365:VAL:HA	2.08	0.53
45:TB:318:ARG:CD	45:TB:358:PRO:HD3	2.38	0.53
44:TC:102:ASN:HB3	44:TC:105:ARG:HB2	1.90	0.53
44:TE:64:ARG:N	44:TE:64:ARG:HD2	2.24	0.53
44:TE:81:GLY:O	44:TE:84:ARG:HG2	2.07	0.53
44:TE:270:SER:HB2	44:TE:378:ILE:CD1	2.38	0.53
44:TG:68:LEU:HD21	44:TG:118:CYS:CB	2.38	0.53
44:TG:326:LYS:HD3	45:TH:212:PHE:CZ	2.42	0.53
44:TI:288:VAL:CA	44:TI:291:ILE:HG12	2.37	0.53
44:TK:183:GLU:N	44:TK:184:PRO:HD2	2.23	0.53
44:TK:390:ARG:O	44:TK:394:LYS:NZ	2.28	0.53
45:TL:55:THR:HG23	45:UL:283:ALA:CA	2.37	0.53
45:TL:101:TRP:HD1	45:TL:145:SER:HG	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:378:PHE:CD2	45:TL:419:VAL:HG22	2.42	0.53
45:TN:256:ASN:HB2	45:TN:350:LYS:HD2	1.89	0.53
45:TN:375:GLN:CB	45:TN:419:VAL:HG13	2.39	0.53
44:UA:23:LEU:HD13	44:UA:233:GLN:NE2	2.23	0.53
45:UB:4:ILE:HG21	45:UB:250:LEU:HD12	1.90	0.53
45:UB:284:LEU:HD13	45:UB:285:THR:HG22	1.89	0.53
44:UE:113:GLU:O	44:UE:114:ILE:HD13	2.07	0.53
44:UE:291:ILE:HG13	44:UE:292:THR:N	2.23	0.53
45:UF:20:PHE:HE1	45:UF:233:MET:HB2	1.73	0.53
45:UF:163:ILE:HD12	45:UF:250:LEU:CD1	2.38	0.53
45:UF:387:ALA:O	45:UF:390:ARG:HG2	2.08	0.53
44:UG:101:ASN:HA	44:UG:144:GLY:CA	2.35	0.53
44:UG:195:LEU:CD1	44:UG:428:LEU:HD11	2.38	0.53
44:UG:260:VAL:CG1	45:UH:397:TRP:HE1	2.18	0.53
45:UH:113:ILE:HA	45:UH:116:VAL:CG1	2.36	0.53
44:UI:311:LYS:CD	44:UI:342:GLN:HG3	2.38	0.53
44:UI:319:TYR:HB3	44:UI:323:VAL:HG11	1.91	0.53
44:UK:136:LEU:CD2	44:UK:167:LEU:HB2	2.39	0.53
44:UK:286:LEU:HA	44:UK:290:GLU:OE2	2.08	0.53
45:UL:344:TRP:C	45:UL:345:ILE:HD12	2.28	0.53
44:UM:10:GLY:O	44:UM:14:ILE:HG13	2.08	0.53
45:UN:325:GLU:O	45:UN:329:GLN:HG2	2.08	0.53
44:VA:311:LYS:HB2	44:VA:344:VAL:HG13	1.91	0.53
44:VA:405:VAL:HG12	44:VA:409:VAL:HG23	1.90	0.53
45:VB:18:ALA:O	45:VB:22:GLU:HG3	2.08	0.53
45:VB:86:ARG:HH2	45:WB:278:SER:HA	1.73	0.53
45:VB:240:LEU:HD23	45:VB:240:LEU:O	2.07	0.53
44:VC:100:ALA:O	45:VD:255:VAL:HG11	2.07	0.53
44:VE:221:ARG:NH2	45:VF:286:VAL:HG21	2.23	0.53
44:VE:278:ALA:HB2	44:VE:369:ALA:HB2	1.89	0.53
44:VE:312:TYR:HE1	44:VE:379:SER:HB2	1.72	0.53
45:VF:21:TRP:CE3	45:VF:61:PRO:HB3	2.44	0.53
45:VH:4:ILE:HG23	45:VH:132:GLY:O	2.07	0.53
44:VI:287:SER:HA	44:VI:373:ARG:HH21	1.74	0.53
45:VJ:65:LEU:HB2	45:VJ:90:PHE:HE1	1.72	0.53
45:VJ:201:VAL:HG22	45:VJ:266:PHE:O	2.09	0.53
44:VK:8:HIS:HB3	44:VK:13:GLY:O	2.08	0.53
44:VK:141:VAL:HG13	44:VK:173:PRO:HD3	1.89	0.53
45:VN:42:LEU:CA	45:VN:45:GLU:HG3	2.32	0.53
45:VN:313:ALA:CB	45:VN:349:ILE:HG12	2.38	0.53
44:WC:5:ILE:O	44:WC:135:PHE:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:406:HIS:CG	45:WF:261:PRO:HD3	2.44	0.53
45:WF:170:VAL:CG2	45:WF:171:PRO:HD2	2.39	0.53
45:WF:343:GLU:OE2	45:WF:430:ALA:N	2.39	0.53
45:WH:42:LEU:HA	45:WH:45:GLU:CG	2.38	0.53
44:WI:206:ASN:O	44:WI:209:ILE:HG12	2.07	0.53
44:WI:346:TRP:O	44:WI:346:TRP:HE3	1.91	0.53
45:WL:153:SER:HA	45:WL:195:ASN:ND2	2.21	0.53
44:WM:54:SER:N	44:WM:62:VAL:O	2.41	0.53
44:WM:171:ILE:HG12	44:WM:204:LEU:HB3	1.90	0.53
44:WM:318:MET:O	44:WM:375:VAL:HG23	2.07	0.53
44:WM:377:MET:HE2	44:WM:379:SER:HB3	1.91	0.53
45:WN:102:ALA:HB3	45:WN:401:GLU:OE1	2.07	0.53
2:0A:74:SER:HA	44:AA:219:ILE:HD12	1.84	0.53
2:0A:150:LEU:HD11	35:7R:89:ASP:HB3	1.89	0.53
3:0B:312:ARG:NE	44:KI:46:ASP:OD1	2.40	0.53
22:1L:292:ASP:OD2	44:BG:221:ARG:HB2	2.08	0.53
25:1P:276:THR:HA	44:TE:370:LYS:HZ3	1.71	0.53
25:1P:340:ARG:HH22	44:TC:37:PRO:HD3	1.72	0.53
15:1V:46:PRO:HD2	44:LI:114:ILE:HD11	1.89	0.53
16:1X:103:ASN:HD21	44:MC:370:LYS:CB	2.22	0.53
31:2H:187:LEU:CD1	45:AD:276:ARG:HH12	2.20	0.53
22:2L:555:LYS:HZ3	45:BN:355:ASP:HB3	1.72	0.53
22:2L:772:ASN:ND2	44:BK:279:GLU:HG2	2.23	0.53
27:2W:248:GLN:OE1	35:6R:17:PHE:HZ	1.91	0.53
32:3I:204:TYR:CE2	44:FK:119:LEU:HD12	2.42	0.53
22:3L:57:ARG:HH21	45:AB:47:ILE:HG22	1.73	0.53
11:3Q:37:ILE:CD1	36:5S:208:GLN:HB2	2.28	0.53
26:3R:224:PHE:CD1	45:BN:80:PRO:HG3	2.42	0.53
16:3X:75:LEU:HD12	45:MN:280:GLN:NE2	2.05	0.53
34:4F:193:LYS:NZ	44:IM:219:ILE:HG23	2.23	0.53
35:4R:21:LEU:HD21	44:LC:322:ASP:CB	2.37	0.53
35:5R:533:ASN:O	35:5R:537:LYS:HG2	2.09	0.53
41:6G:137:GLN:NE2	44:VG:297:GLU:HA	2.23	0.53
35:6R:118:LEU:HD11	35:6R:127:ILE:CG2	2.39	0.53
35:7R:105:GLU:CG	45:BD:279:GLN:HE21	2.20	0.53
35:7R:294:ASN:H	45:DB:218:THR:HG21	1.73	0.53
43:8R:199:UNK:O	43:8R:203:UNK:N	2.41	0.53
45:AB:116:VAL:O	45:AB:119:VAL:HG12	2.08	0.53
45:AB:274:THR:HG21	45:AB:279:GLN:HA	1.90	0.53
45:AB:343:GLU:CD	45:AB:430:ALA:HB2	2.28	0.53
45:AD:286:VAL:HB	45:AD:325:GLU:CG	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:67:PHE:O	44:AE:68:LEU:HD22	2.09	0.53
44:AE:183:GLU:N	44:AE:184:PRO:HD2	2.23	0.53
45:AF:276:ARG:HD2	45:AF:276:ARG:O	2.08	0.53
45:AH:383:GLU:O	45:AH:386:THR:HG22	2.08	0.53
45:AJ:60:VAL:HG13	45:AJ:60:VAL:O	2.08	0.53
44:AK:14:ILE:CD1	44:AK:67:PHE:HB3	2.38	0.53
45:AL:139:LEU:HG	45:AL:188:SER:CB	2.39	0.53
44:AM:264:ARG:NH2	44:AM:431:ASP:OD2	2.42	0.53
44:BA:272:TYR:HD2	44:BA:275:ILE:HD11	1.74	0.53
44:BC:19:ALA:HA	44:BC:22:GLU:OE1	2.09	0.53
45:BD:392:LYS:HG3	45:BD:395:LEU:HD23	1.90	0.53
44:BG:191:THR:HG21	44:BG:425:LEU:HD21	1.88	0.53
44:BG:215:ARG:NH1	44:BG:299:ALA:HB1	2.24	0.53
44:BG:221:ARG:NH2	45:BH:321:MET:HB2	2.23	0.53
45:BH:20:PHE:O	45:BH:24:ILE:HG12	2.08	0.53
44:BI:102:ASN:O	44:BI:105:ARG:HB2	2.08	0.53
45:BJ:170:VAL:HG11	45:BJ:377:MET:HE1	1.89	0.53
45:BJ:184:ASN:OD1	45:BJ:185:ALA:N	2.42	0.53
45:BL:2:ARG:HH12	45:BL:46:ARG:NH1	2.06	0.53
44:BM:35:GLN:OE1	44:BM:60:LYS:HB3	2.07	0.53
45:BN:107:THR:HG21	45:BN:401:GLU:HB3	1.89	0.53
45:BN:174:LYS:HD2	45:BN:175:VAL:HG13	1.90	0.53
44:CA:101:ASN:HA	44:CA:144:GLY:H	1.73	0.53
44:CC:105:ARG:O	44:CC:110:ILE:HG22	2.09	0.53
44:CC:313:MET:HG3	44:CC:346:TRP:HH2	1.74	0.53
45:CD:181:GLU:N	45:CD:182:PRO:HD2	2.24	0.53
44:CG:151:SER:HB3	44:CG:193:SER:OG	2.09	0.53
44:CG:256:GLN:HE22	45:CH:397:TRP:HH2	1.56	0.53
45:CH:165:GLU:OE1	45:CH:200:MET:HE3	2.08	0.53
44:CI:183:GLU:HG2	44:CI:184:PRO:CD	2.37	0.53
44:CI:318:MET:SD	44:CI:354:GLY:HA3	2.48	0.53
45:CJ:254:ALA:HA	45:CJ:258:ILE:CD1	2.38	0.53
44:CK:223:THR:HG22	44:CK:224:TYR:N	2.23	0.53
45:CL:66:MET:HG3	45:CL:116:VAL:HG21	1.90	0.53
44:CM:295:ALA:HB1	44:CM:377:MET:CE	2.38	0.53
44:DA:93:ILE:H	44:DA:93:ILE:HD12	1.73	0.53
45:DB:311:LEU:O	45:DB:348:ASN:HB2	2.08	0.53
44:DC:329:ASN:OD1	45:DD:175:VAL:HG11	2.09	0.53
44:DE:260:VAL:HG22	44:DE:262:TYR:O	2.08	0.53
44:DG:102:ASN:HA	44:DG:408:TYR:CZ	2.42	0.53
44:DG:106:GLY:O	44:DG:149:LEU:HD22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:239:THR:O	44:DG:239:THR:HG22	2.08	0.53
44:DK:131:GLY:O	44:DK:133:GLN:NE2	2.38	0.53
44:DK:184:PRO:HG2	44:DK:398:MET:HE1	1.89	0.53
44:DK:229:ARG:NH1	44:DK:363:VAL:HG11	2.23	0.53
44:DK:272:TYR:O	44:DK:300:ASN:ND2	2.41	0.53
44:DK:335:ILE:HA	44:DK:338:LYS:CE	2.38	0.53
45:DL:44:LEU:CD2	45:DL:47:ILE:HG21	2.36	0.53
45:DL:60:VAL:HG21	45:DL:86:ARG:HG2	1.89	0.53
45:DL:135:ILE:O	45:DL:166:THR:HA	2.07	0.53
45:DL:296:ALA:HB1	45:DL:305:PRO:HD2	1.90	0.53
45:DL:348:ASN:HA	44:DM:181:VAL:HG12	1.90	0.53
44:DM:66:VAL:HA	44:DM:91:GLN:HG2	1.90	0.53
44:DM:276:ILE:HD13	44:DM:281:ALA:HA	1.90	0.53
45:DN:1:MET:O	45:DN:2:ARG:HG2	2.08	0.53
44:EA:2:ARG:O	44:EA:51:THR:HA	2.08	0.53
44:EA:20:CYS:HB3	44:EA:232:ALA:HA	1.89	0.53
45:EB:65:LEU:N	45:EB:89:ASN:O	2.29	0.53
44:EC:1:MET:HE2	45:ED:92:PHE:HE2	1.73	0.53
44:EC:54:SER:HB3	44:EC:64:ARG:NH2	2.23	0.53
45:ED:4:ILE:HG22	45:ED:132:GLY:H	1.73	0.53
44:EG:157:LEU:HD22	44:EG:166:LYS:CD	2.24	0.53
44:EG:205:ASP:CG	44:EG:304:LYS:H	2.10	0.53
45:EH:21:TRP:O	45:EH:25:SER:OG	2.12	0.53
45:EH:278:SER:HA	45:EH:281:TYR:HB2	1.89	0.53
45:EJ:130:LEU:HD21	45:EJ:133:PHE:CZ	2.44	0.53
45:EJ:183:TYR:OH	45:EJ:393:ALA:O	2.08	0.53
44:EK:3:GLU:CD	44:EK:131:GLY:H	2.11	0.53
44:EK:272:TYR:CD2	44:EK:275:ILE:HD11	2.43	0.53
45:EL:198:GLU:OE2	45:EL:254:ALA:HA	2.08	0.53
45:EL:238:CYS:HB2	45:EL:318:ARG:NH2	2.23	0.53
45:EL:320:ARG:O	45:EL:321:MET:CE	2.55	0.53
45:EN:185:ALA:O	45:EN:189:VAL:HG23	2.09	0.53
44:FA:268:MET:HG2	44:FA:380:ASN:CB	2.39	0.53
45:FB:83:GLN:OE1	45:FB:83:GLN:HA	2.09	0.53
45:FB:170:VAL:HB	45:FB:171:PRO:HD2	1.89	0.53
45:FB:323:THR:HG22	45:FB:353:ILE:HG12	1.91	0.53
44:FC:243:ARG:NH1	44:FC:244:PHE:CE2	2.76	0.53
44:FC:288:VAL:CG2	44:FC:327:ASP:HB3	2.33	0.53
44:FE:115:VAL:O	44:FE:119:LEU:HD23	2.07	0.53
45:FH:227:HIS:O	45:FH:230:SER:N	2.40	0.53
45:FH:376:GLU:CG	45:FH:380:ARG:HH21	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:31:GLN:HG2	44:FI:32:PRO:HD2	1.89	0.53
44:FI:119:LEU:O	44:FI:122:ILE:HG22	2.07	0.53
45:FJ:258:ILE:HD11	45:FJ:266:PHE:HZ	1.74	0.53
44:FK:71:GLU:CD	44:FK:73:THR:H	2.11	0.53
44:FK:256:GLN:NE2	45:FN:397:TRP:HH2	2.07	0.53
45:FL:136:THR:HA	45:FL:167:PHE:O	2.09	0.53
45:FL:136:THR:HG22	45:FL:167:PHE:HB2	1.89	0.53
45:FL:242:PHE:HD2	45:FL:356:ILE:CB	2.21	0.53
44:FM:99:ALA:O	44:FM:105:ARG:HD3	2.08	0.53
45:FN:23:VAL:HG21	45:FN:230:SER:CB	2.38	0.53
45:FN:103:LYS:HD2	45:FN:108:GLU:CG	2.37	0.53
45:FN:321:MET:O	45:FN:326:VAL:HG23	2.08	0.53
45:GB:19:LYS:O	45:GB:23:VAL:HG23	2.09	0.53
45:GD:198:GLU:OE1	45:GD:250:LEU:HD21	2.09	0.53
44:GE:324:VAL:O	44:GE:324:VAL:HG23	2.09	0.53
45:GF:165:GLU:OE2	45:GF:250:LEU:HD22	2.07	0.53
45:GF:215:LEU:HA	45:GF:275:SER:CA	2.38	0.53
45:GH:139:LEU:HA	45:GH:145:SER:HB3	1.90	0.53
44:GI:199:ASP:O	44:GI:266:HIS:HB2	2.09	0.53
45:GJ:238:CYS:HB3	45:GJ:318:ARG:NH2	2.23	0.53
44:GK:393:HIS:CE1	44:GK:397:LEU:HD21	2.43	0.53
45:GL:113:ILE:HG13	45:GL:116:VAL:CG1	2.38	0.53
44:GM:2:ARG:NH2	44:GM:243:ARG:HA	2.23	0.53
44:GM:319:TYR:CE2	44:GM:328:VAL:HG22	2.43	0.53
45:HB:131:GLN:HG2	45:HB:250:LEU:HD12	1.89	0.53
45:HB:139:LEU:HA	45:HB:145:SER:HB3	1.91	0.53
44:HC:288:VAL:HA	44:HC:291:ILE:HD11	1.89	0.53
45:HF:139:LEU:HD23	45:HF:168:SER:HB3	1.90	0.53
45:HF:263:LEU:HG	45:HF:422:TYR:CD1	2.42	0.53
44:HG:259:LEU:HD21	44:HG:380:ASN:OD1	2.08	0.53
45:HH:26:ASP:HB3	45:HH:359:LYS:HE2	1.89	0.53
44:HI:183:GLU:HG2	44:HI:184:PRO:HD3	1.91	0.53
45:HJ:215:LEU:O	45:HJ:275:SER:HA	2.08	0.53
44:HK:272:TYR:HD1	44:HK:376:CYS:HB3	1.74	0.53
44:HM:122:ILE:HD13	44:HM:157:LEU:HD21	1.91	0.53
45:HN:104:GLY:C	45:HN:147:MET:HE3	2.29	0.53
45:HN:344:TRP:CE3	45:HN:345:ILE:HB	2.43	0.53
45:HN:384:GLN:O	45:HN:387:ALA:HA	2.08	0.53
44:IA:291:ILE:O	44:IA:294:SER:HB2	2.08	0.53
45:IB:113:ILE:HA	45:IB:116:VAL:CG1	2.37	0.53
44:IC:11:GLN:HB3	46:ID:501:GTP:O3A	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:217:LEU:HD12	45:IH:220:PRO:CD	2.29	0.53
44:II:269:LEU:HD23	44:II:269:LEU:H	1.73	0.53
44:II:278:ALA:N	44:II:369:ALA:HB2	2.24	0.53
45:IJ:83:GLN:HA	45:IJ:83:GLN:OE1	2.09	0.53
45:IJ:86:ARG:HD3	44:JG:284:GLU:CG	2.28	0.53
44:IM:50:ASN:OD1	44:IM:51:THR:N	2.41	0.53
45:IN:256:ASN:C	45:IN:257:LEU:HD12	2.29	0.53
44:JA:137:VAL:HG12	44:JA:167:LEU:O	2.07	0.53
45:JB:5:VAL:HG23	45:JB:62:ARG:O	2.09	0.53
45:JB:314:SER:CB	45:JB:350:LYS:HB3	2.37	0.53
44:JC:251:ASP:O	44:JC:254:GLU:N	2.30	0.53
44:JE:88:HIS:ND1	44:JE:90:GLU:HG2	2.23	0.53
44:JE:217:LEU:CD2	44:JE:275:ILE:HG22	2.38	0.53
45:JF:283:ALA:O	45:JF:288:GLU:HG3	2.08	0.53
45:JF:314:SER:OG	45:JF:368:VAL:HB	2.08	0.53
44:JG:145:THR:HG23	44:JG:146:GLY:N	2.24	0.53
44:JK:54:SER:HB3	44:JK:64:ARG:NH1	2.24	0.53
44:JK:105:ARG:HH22	44:JK:110:ILE:HG21	1.73	0.53
44:JK:311:LYS:HG3	44:JK:342:GLN:HG3	1.91	0.53
45:JL:396:HIS:CA	45:JL:399:THR:HG22	2.37	0.53
44:JM:109:THR:HG23	44:JM:110:ILE:N	2.23	0.53
45:JN:116:VAL:HG21	45:JN:151:LEU:HD21	1.90	0.53
45:JN:318:ARG:HD3	45:JN:364:ALA:HB3	1.89	0.53
45:KB:21:TRP:CE3	45:KB:85:PHE:HE1	2.27	0.53
45:KB:286:VAL:CG1	45:KB:325:GLU:HG3	2.39	0.53
44:KC:264:ARG:HH12	44:KC:428:LEU:HB2	1.73	0.53
44:KC:335:ILE:O	44:KC:338:LYS:HG2	2.07	0.53
45:KD:167:PHE:HE1	45:KD:233:MET:CB	2.21	0.53
45:KF:19:LYS:HZ3	45:KF:227:HIS:HA	1.72	0.53
45:KF:293:MET:CE	45:KF:367:PHE:HD1	2.20	0.53
44:KI:332:ILE:HA	44:KI:335:ILE:HG22	1.88	0.53
45:KJ:271:ALA:HB1	45:KJ:272:PRO:HA	1.89	0.53
45:KN:269:GLY:HA2	45:KN:300:MET:SD	2.49	0.53
44:LA:262:TYR:CE1	45:LD:393:ALA:HA	2.43	0.53
45:LD:34:GLY:O	45:LD:58:ARG:HA	2.08	0.53
45:LD:69:GLU:OE1	45:LD:96:GLY:HA2	2.09	0.53
44:LE:70:LEU:HD12	44:LE:145:THR:OG1	2.08	0.53
44:LE:247:ALA:CB	44:LE:355:ILE:HG21	2.35	0.53
45:LF:39:ASP:OD1	45:LF:40:SER:N	2.40	0.53
45:LF:170:VAL:CG2	45:LF:171:PRO:HD2	2.38	0.53
45:LH:262:ARG:HB2	45:LH:262:ARG:HH11	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LI:326:LYS:HE3	45:LL:212:PHE:CE2	2.43	0.53
45:LJ:106:TYR:CE2	45:LJ:403:MET:HG2	2.43	0.53
45:LL:61:PRO:HG2	45:LL:85:PHE:HA	1.89	0.53
45:MB:97:ALA:HA	45:MB:103:LYS:HG2	1.89	0.53
45:MB:304:ASP:OD1	45:MB:305:PRO:HD2	2.08	0.53
44:MC:181:VAL:HG12	45:MD:347:ASN:O	2.08	0.53
44:MC:212:ILE:HD11	44:MC:300:ASN:HA	1.90	0.53
45:MD:9:GLY:HA2	45:MD:66:MET:HG3	1.91	0.53
44:ME:70:LEU:HD12	44:ME:145:THR:HB	1.89	0.53
44:ME:176:GLN:O	45:MF:347:ASN:ND2	2.40	0.53
45:MF:296:ALA:HA	45:MF:305:PRO:HG3	1.91	0.53
44:MG:318:MET:O	44:MG:375:VAL:HA	2.08	0.53
44:MI:141:VAL:HG12	44:MI:172:TYR:HA	1.91	0.53
44:MI:254:GLU:OE1	44:MI:257:THR:HG21	2.08	0.53
44:MK:82:THR:HG23	44:MK:83:TYR:CD1	2.44	0.53
45:ML:32:PRO:HA	45:ML:84:LEU:HD11	1.91	0.53
45:ML:127:CYS:SG	45:ML:130:LEU:HD13	2.49	0.53
45:ML:256:ASN:C	45:ML:257:LEU:HD12	2.28	0.53
45:ML:269:GLY:HA2	45:ML:300:MET:HE1	1.90	0.53
44:MM:259:LEU:HD11	44:MM:316:SER:OG	2.08	0.53
44:NA:278:ALA:HB2	44:NA:369:ALA:CA	2.38	0.53
44:NE:174:SER:OG	44:NE:207:GLU:HB2	2.08	0.53
44:NE:311:LYS:NZ	44:NE:342:GLN:HB3	2.22	0.53
45:NH:167:PHE:CE2	45:NH:233:MET:HG3	2.42	0.53
44:NI:315:CYS:HA	44:NI:379:SER:CB	2.38	0.53
44:NI:332:ILE:O	44:NI:335:ILE:HG22	2.08	0.53
45:NJ:124:ALA:HB1	45:NJ:130:LEU:HD22	1.90	0.53
45:NJ:270:PHE:N	45:NJ:300:MET:HE1	2.23	0.53
45:NJ:271:ALA:HB2	45:NJ:298:ASN:ND2	2.24	0.53
44:NK:273:ALA:HB2	44:NK:300:ASN:HD21	1.73	0.53
45:NL:342:VAL:HG22	45:NL:343:GLU:H	1.72	0.53
44:NM:250:VAL:O	44:NM:250:VAL:HG13	2.07	0.53
44:NM:292:THR:O	44:NM:295:ALA:HB3	2.08	0.53
45:NN:117:LEU:O	45:NN:121:ARG:NH1	2.41	0.53
45:OB:7:ILE:HD12	45:OB:135:ILE:CD1	2.39	0.53
44:OC:167:LEU:HD11	44:OC:252:ILE:HG23	1.90	0.53
44:OC:232:ALA:HA	44:OC:235:ILE:CG2	2.39	0.53
44:OE:71:GLU:OE2	44:OE:74:VAL:HG13	2.08	0.53
45:OF:222:TYR:CD1	45:OF:225:LEU:HD12	2.43	0.53
45:OF:271:ALA:HB3	45:OF:365:VAL:CG2	2.38	0.53
44:OG:119:LEU:HD21	44:OG:156:ARG:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:296:PHE:CE1	44:OG:312:TYR:HE2	2.27	0.53
45:OH:2:ARG:NE	45:OH:240:LEU:HG	2.23	0.53
45:OH:182:PRO:HB3	45:OH:384:GLN:HG3	1.89	0.53
45:OJ:332:ASN:O	45:OJ:335:ASN:HB2	2.09	0.53
44:OK:141:VAL:HG23	44:OK:190:SER:CB	2.38	0.53
44:OK:188:ILE:O	44:OK:191:THR:HB	2.08	0.53
45:OL:167:PHE:CZ	45:OL:233:MET:HG3	2.44	0.53
44:OM:7:ILE:HG21	44:OM:153:LEU:HD22	1.90	0.53
44:OM:252:ILE:HA	44:OM:255:PHE:CD1	2.43	0.53
45:ON:248:SER:HA	45:ON:252:LYS:HE3	1.90	0.53
45:PB:290:THR:HG21	45:PB:329:GLN:CD	2.28	0.53
45:PD:203:ASP:OD2	45:PD:301:CYS:HA	2.09	0.53
44:PE:107:HIS:HB3	44:PE:108:TYR:CD2	2.44	0.53
45:PF:161:ASP:OD1	45:PF:162:ARG:N	2.41	0.53
44:PG:12:GLY:O	44:PG:16:VAL:HG22	2.08	0.53
44:PG:14:ILE:HD11	44:PG:69:ASP:HB2	1.89	0.53
44:PG:288:VAL:HG11	44:PG:327:ASP:CB	2.31	0.53
44:PI:98:ASP:HB3	45:PJ:249:ASP:OD2	2.08	0.53
45:PJ:32:PRO:HG3	45:PJ:81:PHE:CZ	2.44	0.53
45:PJ:187:LEU:HD21	45:PJ:408:PHE:CE1	2.43	0.53
45:PJ:335:ASN:OD1	45:PJ:336:LYS:N	2.41	0.53
44:PK:260:VAL:CG1	44:PK:266:HIS:HB3	2.37	0.53
45:PL:116:VAL:CA	45:PL:119:VAL:HG12	2.37	0.53
45:PN:203:ASP:OD2	45:PN:302:ALA:N	2.33	0.53
45:PN:263:LEU:HG	45:PN:422:TYR:CD1	2.44	0.53
45:PN:317:PHE:CD1	45:PN:365:VAL:HG11	2.43	0.53
45:QB:330:MET:HA	45:QB:333:VAL:HB	1.90	0.53
44:QC:19:ALA:HB1	44:QC:229:ARG:NH2	2.24	0.53
44:QC:79:ARG:O	44:QC:84:ARG:HB3	2.09	0.53
44:QC:287:SER:C	44:QC:291:ILE:HG23	2.28	0.53
44:QE:107:HIS:CE1	44:QE:152:LEU:HD13	2.43	0.53
44:QE:350:GLY:HA2	45:QF:179:VAL:CG1	2.39	0.53
44:QG:60:LYS:HE2	44:QG:61:HIS:O	2.09	0.53
45:QH:65:LEU:HB2	45:QH:90:PHE:CD1	2.44	0.53
45:QH:164:MET:O	45:QH:198:GLU:N	2.41	0.53
45:QH:237:THR:HG23	45:QH:241:ARG:NH2	2.23	0.53
44:QI:278:ALA:CB	44:QI:369:ALA:HB2	2.33	0.53
45:QJ:51:TYR:HE1	45:QJ:61:PRO:HG3	1.74	0.53
45:QL:40:SER:O	45:QL:43:GLN:HB3	2.08	0.53
44:QM:102:ASN:OD1	44:QM:105:ARG:HG3	2.09	0.53
45:QN:42:LEU:CA	45:QN:45:GLU:HG3	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:2:ARG:HA	44:RA:131:GLY:O	2.08	0.53
44:RA:297:GLU:HB2	44:RA:300:ASN:HD22	1.73	0.53
44:RA:297:GLU:HB2	44:RA:300:ASN:ND2	2.23	0.53
44:RA:346:TRP:CE3	44:RA:347:CYS:HB2	2.43	0.53
45:RB:52:ASN:HD21	45:RB:62:ARG:HE	1.54	0.53
45:RB:370:ASN:OD1	45:RB:371:SER:N	2.41	0.53
44:RC:183:GLU:HG2	44:RC:184:PRO:CD	2.37	0.53
44:RE:56:THR:HG23	44:RE:58:ALA:H	1.73	0.53
44:RE:326:LYS:HD2	44:RE:327:ASP:N	2.22	0.53
45:RF:323:THR:CA	45:RF:326:VAL:HG12	2.37	0.53
44:RG:69:ASP:OD2	44:RG:74:VAL:HG21	2.09	0.53
44:RG:108:TYR:O	44:RG:112:LYS:NZ	2.41	0.53
45:RH:178:THR:HG22	45:RH:180:VAL:HG12	1.91	0.53
44:RI:28:HIS:HB3	44:RI:49:PHE:HE1	1.72	0.53
44:RI:31:GLN:HB3	44:RI:32:PRO:HD3	1.90	0.53
44:RI:325:PRO:HG3	45:RJ:222:TYR:CE2	2.42	0.53
45:RJ:95:THR:HG21	45:RJ:108:GLU:CD	2.28	0.53
44:RK:102:ASN:CB	44:RK:105:ARG:HB2	2.37	0.53
44:RK:311:LYS:HD2	44:RK:342:GLN:HE21	1.71	0.53
45:RL:12:CYS:HB2	48:RL:501:GDP:C8	2.43	0.53
45:RL:25:SER:CA	45:RL:30:ILE:HB	2.38	0.53
45:RL:66:MET:CB	45:RL:91:VAL:HG23	2.39	0.53
45:RL:73:MET:HE3	45:RL:92:PHE:HB3	1.90	0.53
44:RM:71:GLU:OE2	44:RM:72:PRO:HD2	2.08	0.53
45:RN:278:SER:HA	45:RN:281:TYR:HB2	1.89	0.53
44:SA:3:GLU:HG3	44:SA:50:ASN:O	2.09	0.53
44:SA:199:ASP:O	44:SA:266:HIS:HB2	2.08	0.53
44:SA:257:THR:HA	45:SB:397:TRP:CE2	2.43	0.53
44:SA:344:VAL:HG21	44:SA:346:TRP:NE1	2.23	0.53
44:SA:408:TYR:HB3	44:SA:413:MET:CE	2.38	0.53
45:SB:372:THR:HA	45:SB:422:TYR:CZ	2.43	0.53
45:SF:245:GLN:C	45:SF:246:LEU:HD12	2.29	0.53
45:SF:252:LYS:HG2	45:SF:350:LYS:CE	2.38	0.53
45:SF:396:HIS:HA	45:SF:399:THR:OG1	2.08	0.53
45:SH:174:LYS:CE	45:SH:175:VAL:HG22	2.39	0.53
44:SI:107:HIS:O	44:SI:107:HIS:ND1	2.42	0.53
45:SJ:156:ARG:NH1	45:SJ:162:ARG:O	2.41	0.53
45:SJ:240:LEU:HD23	45:SJ:241:ARG:HG3	1.90	0.53
45:SJ:406:MET:HA	45:SJ:409:THR:CG2	2.39	0.53
44:SM:49:PHE:HB2	44:SM:53:PHE:N	2.23	0.53
44:SM:145:THR:HG23	46:SM:501:GTP:O2G	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:256:GLN:NE2	44:SM:257:THR:HG23	2.23	0.53
45:SN:4:ILE:HG23	45:SN:131:GLN:HB3	1.89	0.53
45:TB:22:GLU:HG2	45:TB:81:PHE:CD1	2.43	0.53
45:TB:87:PRO:HA	45:TB:90:PHE:CD2	2.44	0.53
45:TB:117:LEU:O	45:TB:121:ARG:HG2	2.09	0.53
44:TC:235:ILE:HA	44:TC:238:LEU:CD2	2.38	0.53
44:TC:402:ARG:HG3	44:TC:402:ARG:O	2.08	0.53
44:TC:432:TYR:O	44:TC:436:GLY:N	2.40	0.53
45:TF:53:GLU:OE1	45:TF:59:TYR:OH	2.18	0.53
44:TI:110:ILE:HG22	44:TI:110:ILE:O	2.08	0.53
44:TI:145:THR:HG23	46:TI:501:GTP:O1B	2.07	0.53
44:TI:206:ASN:O	44:TI:209:ILE:HB	2.09	0.53
45:TJ:268:ILE:HA	45:TJ:367:PHE:O	2.08	0.53
45:TL:318:ARG:NH1	45:TL:358:PRO:HG3	2.21	0.53
45:TL:324:LYS:CB	44:TM:222:PRO:HG2	2.39	0.53
44:TM:70:LEU:HD11	44:TM:149:LEU:CD2	2.39	0.53
44:TM:104:ALA:HB1	44:TM:413:MET:HB2	1.90	0.53
45:UD:151:LEU:O	45:UD:155:VAL:HG13	2.08	0.53
45:UD:185:ALA:O	45:UD:188:SER:OG	2.16	0.53
45:UD:256:ASN:C	45:UD:257:LEU:HD12	2.28	0.53
44:UE:13:GLY:HA2	44:UE:16:VAL:CG1	2.38	0.53
44:UE:276:ILE:HG12	44:UE:281:ALA:HB2	1.89	0.53
45:UF:248:SER:OG	45:UF:253:LEU:HD12	2.08	0.53
44:UG:387:VAL:HA	44:UG:390:ARG:HD2	1.90	0.53
45:UH:256:ASN:CB	45:UH:350:LYS:HD2	2.38	0.53
45:UH:376:GLU:CG	45:UH:380:ARG:HH21	2.21	0.53
44:UI:137:VAL:HG12	44:UI:167:LEU:O	2.08	0.53
44:UI:287:SER:CB	44:UI:290:GLU:HG2	2.35	0.53
45:UJ:141:GLY:HA3	48:UJ:501:GDP:PB	2.48	0.53
45:UJ:322:SER:HB2	44:UK:222:PRO:O	2.08	0.53
44:UK:68:LEU:HD21	44:UK:118:CYS:SG	2.48	0.53
44:UK:136:LEU:HD22	44:UK:167:LEU:HB2	1.89	0.53
44:UK:269:LEU:HD23	44:UK:379:SER:O	2.08	0.53
44:UK:292:THR:HG21	44:UK:331:SER:O	2.08	0.53
45:UL:106:TYR:CZ	45:UL:403:MET:HE1	2.42	0.53
44:UM:5:ILE:CG1	44:UM:64:ARG:HB3	2.37	0.53
44:UM:387:VAL:CA	44:UM:390:ARG:HG2	2.37	0.53
45:UN:266:PHE:CE1	45:UN:370:ASN:HB2	2.43	0.53
44:VC:312:TYR:O	44:VC:344:VAL:HG23	2.08	0.53
45:VD:101:TRP:H	45:VD:398:TYR:HE1	1.55	0.53
44:VE:103:PHE:HB3	44:VE:408:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:108:TYR:CG	44:VE:413:MET:HE1	2.43	0.53
44:VE:145:THR:HG23	46:VE:501:GTP:O1B	2.08	0.53
44:VG:88:HIS:H	44:VG:91:GLN:NE2	2.04	0.53
44:VG:241:SER:OG	44:VG:250:VAL:N	2.37	0.53
44:VG:310:GLY:O	44:VG:311:LYS:HD3	2.09	0.53
44:VI:51:THR:OG1	44:VI:243:ARG:HB3	2.07	0.53
44:VI:91:GLN:O	44:VI:93:ILE:HD12	2.09	0.53
45:VJ:299:MET:HG3	45:VJ:305:PRO:HG3	1.90	0.53
45:VL:4:ILE:HG13	45:VL:5:VAL:N	2.24	0.53
45:VL:18:ALA:O	45:VL:22:GLU:HG3	2.08	0.53
45:VL:87:PRO:HD2	45:WL:281:TYR:CD2	2.42	0.53
45:VL:268:ILE:HD11	45:VL:300:MET:HG2	1.91	0.53
45:VL:384:GLN:OE1	45:VL:384:GLN:HA	2.07	0.53
44:VM:68:LEU:HD21	44:VM:118:CYS:CB	2.38	0.53
44:VM:287:SER:HB3	44:VM:290:GLU:HG2	1.90	0.53
44:VM:401:LYS:O	44:VM:402:ARG:HG2	2.07	0.53
45:VN:202:ILE:CD1	45:VN:229:VAL:HG13	2.38	0.53
45:VN:309:ARG:HA	45:VN:340:TYR:O	2.07	0.53
44:WA:180:ALA:HB1	45:WB:256:ASN:HD21	1.72	0.53
45:WB:256:ASN:C	45:WB:257:LEU:HD12	2.28	0.53
44:WC:288:VAL:HG21	44:WC:323:VAL:HG21	1.91	0.53
45:WD:271:ALA:CB	45:WD:272:PRO:HD2	2.31	0.53
45:WD:404:ASP:OD1	45:WD:407:GLU:HG3	2.09	0.53
44:WE:19:ALA:HB2	44:WE:228:ASN:HB3	1.91	0.53
45:WF:69:GLU:O	45:WF:73:MET:HE2	2.09	0.53
44:WI:13:GLY:HA2	44:WI:16:VAL:CG1	2.38	0.53
44:WI:111:GLY:O	44:WI:115:VAL:HB	2.08	0.53
44:WI:141:VAL:CG1	44:WI:172:TYR:HA	2.39	0.53
45:WJ:359:LYS:HD2	45:WJ:359:LYS:O	2.09	0.53
45:WL:375:GLN:C	45:WL:379:LYS:HZ3	2.12	0.53
44:WM:329:ASN:O	44:WM:332:ILE:HB	2.08	0.53
3:0B:71:ILE:HD13	45:JH:274:THR:CG2	2.38	0.53
16:0X:8:TYR:CE2	44:MA:322:ASP:HB3	2.43	0.53
20:1J:65:ILE:HG13	44:HC:84:ARG:HH21	1.72	0.53
20:1J:291:ASP:OD2	44:IK:221:ARG:NE	2.40	0.53
20:1J:317:VAL:HG23	44:HK:57:GLY:HA3	1.91	0.53
21:1K:169:LYS:HZ2	44:GC:279:GLU:HG2	1.71	0.53
24:1O:214:ILE:HD11	44:UC:278:ALA:C	2.28	0.53
25:1P:305:ALA:HB1	45:TD:360:GLY:O	2.09	0.53
25:1P:341:LEU:HD22	44:TC:364:PRO:CD	2.38	0.53
26:1R:505:TYR:CD1	44:EC:39:ASP:HB3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:73:ALA:O	44:AM:219:ILE:HD13	2.07	0.53
32:3I:280:SER:OG	45:GJ:217:LEU:HB2	2.09	0.53
26:3R:112:GLU:HG2	45:BN:279:GLN:NE2	2.20	0.53
26:3R:283:ARG:NH1	44:CK:45:GLY:HA2	2.22	0.53
26:3R:377:ARG:HH22	45:DL:77:ARG:NH1	2.05	0.53
12:3S:271:ASP:OD2	11:6Q:20:LYS:HD3	2.08	0.53
13:3T:132:PRO:N	44:MK:123:ARG:HH12	2.06	0.53
31:4H:169:THR:O	35:5R:84:PRO:HD2	2.08	0.53
35:4R:85:TRP:CH2	44:AE:372:MET:HE1	2.43	0.53
35:4R:319:PRO:HG3	45:CF:228:LEU:CD1	2.31	0.53
37:5C:40:VAL:CA	44:KG:264:ARG:HG3	2.37	0.53
37:5C:79:LEU:HD21	45:NJ:245:GLN:NE2	2.22	0.53
38:5H:123:ARG:HH11	44:OM:370:LYS:HE3	1.72	0.53
39:5K:78:THR:O	39:5K:82:LEU:HG	2.08	0.53
35:5R:566:PHE:HD1	35:5R:589:MET:HE3	1.74	0.53
36:5S:189:VAL:CA	36:5S:192:MET:HE2	2.26	0.53
40:6F:44:ARG:NE	45:IF:39:ASP:O	2.41	0.53
11:6Q:92:GLN:HG2	11:6Q:152:LEU:HB2	1.90	0.53
35:6R:448:CYS:HB3	35:6R:487:GLU:OE2	2.07	0.53
35:7R:257:SER:O	35:7R:352:CYS:HB2	2.07	0.53
35:7R:423:ILE:HD13	35:7R:447:PHE:CD2	2.44	0.53
35:7R:468:GLY:HA3	45:EB:77:ARG:NH2	2.23	0.53
45:AD:85:PHE:O	45:AD:87:PRO:HD3	2.09	0.53
45:AD:252:LYS:HZ3	45:AD:255:VAL:HG11	1.74	0.53
44:AE:88:HIS:O	44:AE:91:GLN:HG2	2.08	0.53
44:AE:209:ILE:HG21	44:AE:227:LEU:HD23	1.91	0.53
45:AF:202:ILE:HG23	45:AF:300:MET:HE2	1.89	0.53
45:AH:299:MET:HE1	45:AH:367:PHE:CE2	2.43	0.53
44:AI:21:TRP:HZ2	44:AI:65:ALA:HB2	1.73	0.53
44:AI:52:PHE:C	44:AI:64:ARG:HD2	2.28	0.53
44:AI:387:VAL:HA	44:AI:390:ARG:HH11	1.73	0.53
45:AJ:318:ARG:HB3	45:AJ:358:PRO:HD3	1.91	0.53
45:AL:34:GLY:O	45:AL:58:ARG:HA	2.08	0.53
45:AL:113:ILE:O	45:AL:116:VAL:HG12	2.08	0.53
45:AL:262:ARG:HH21	45:AL:421:GLU:CG	2.21	0.53
44:BA:209:ILE:HG12	44:BA:302:MET:SD	2.49	0.53
44:BA:294:SER:HA	44:BA:297:GLU:CG	2.39	0.53
44:BC:181:VAL:HG11	45:BD:256:ASN:O	2.08	0.53
45:BD:207:LEU:O	45:BD:210:ILE:HG22	2.09	0.53
45:BD:302:ALA:H	45:BD:377:MET:HE2	1.74	0.53
44:BE:156:ARG:O	44:BE:159:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:248:SER:OG	45:BF:253:LEU:HD12	2.08	0.53
44:BG:172:TYR:HB3	44:BG:173:PRO:HD2	1.91	0.53
44:BG:394:LYS:NZ	45:BH:346:PRO:HG2	2.23	0.53
45:BN:146:GLY:CA	45:BN:149:THR:HG22	2.39	0.53
45:BN:170:VAL:CG2	45:BN:171:PRO:HD2	2.38	0.53
45:BN:304:ASP:OD1	45:BN:305:PRO:HD2	2.08	0.53
45:BN:396:HIS:HA	45:BN:399:THR:HG1	1.73	0.53
45:CB:217:LEU:HD11	45:CB:220:PRO:HG3	1.91	0.53
45:CB:267:MET:HE2	45:CB:371:SER:HB3	1.90	0.53
44:CG:268:MET:HB2	44:CG:379:SER:O	2.08	0.53
44:CG:311:LYS:NZ	44:CG:342:GLN:HG3	2.23	0.53
45:CH:396:HIS:HA	45:CH:399:THR:HG22	1.89	0.53
45:CJ:165:GLU:OE2	45:CJ:250:LEU:HB3	2.08	0.53
44:CK:132:LEU:HD11	44:CK:161:TYR:OH	2.08	0.53
44:CK:354:GLY:O	44:CK:355:ILE:HD13	2.08	0.53
44:CM:409:VAL:HA	44:CM:413:MET:O	2.08	0.53
44:DA:203:MET:HG3	44:DA:384:ILE:CD1	2.27	0.53
44:DA:235:ILE:HG22	44:DA:239:THR:HG23	1.89	0.53
44:DE:52:PHE:CZ	44:DE:239:THR:HG21	2.44	0.53
44:DE:184:PRO:HG3	44:DE:398:MET:HE2	1.90	0.53
44:DE:387:VAL:O	44:DE:390:ARG:HG2	2.08	0.53
45:DF:316:LEU:HB2	45:DF:366:THR:CG2	2.37	0.53
45:DJ:40:SER:O	45:DJ:43:GLN:HB2	2.08	0.53
45:DJ:216:LYS:HB3	45:DJ:216:LYS:HZ1	1.73	0.53
45:DJ:255:VAL:HG21	44:DK:100:ALA:O	2.08	0.53
44:DK:179:THR:CG2	46:DK:501:GTP:H5'	2.27	0.53
44:DK:291:ILE:HG13	44:DK:292:THR:N	2.23	0.53
45:DL:249:ASP:OD2	44:DM:98:ASP:HB3	2.09	0.53
44:DM:255:PHE:CD1	44:DM:259:LEU:HD12	2.43	0.53
45:DN:30:ILE:CG2	45:DN:84:LEU:HD21	2.38	0.53
44:EA:312:TYR:HA	44:EA:381:SER:CA	2.38	0.53
45:ED:256:ASN:HD22	45:ED:350:LYS:CD	2.20	0.53
45:EF:255:VAL:HA	44:EG:407:TRP:CH2	2.44	0.53
44:EG:103:PHE:HB3	44:EG:408:TYR:HE2	1.73	0.53
45:EJ:131:GLN:O	45:EJ:162:ARG:HD3	2.09	0.53
45:EJ:341:PHE:HB3	45:EJ:348:ASN:HD21	1.73	0.53
44:EK:31:GLN:HB3	44:EK:32:PRO:CD	2.38	0.53
44:EK:261:PRO:HA	45:EL:394:PHE:CD2	2.44	0.53
44:EK:268:MET:HB2	44:EK:379:SER:C	2.28	0.53
44:EM:21:TRP:HZ3	44:EM:52:PHE:HB3	1.73	0.53
45:EN:312:THR:O	45:EN:370:ASN:N	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:121:ARG:HG3	44:FA:125:LEU:HG	1.89	0.53
45:FB:42:LEU:HA	45:FB:45:GLU:CG	2.28	0.53
45:FB:272:PRO:HB3	45:FB:289:LEU:CD2	2.38	0.53
45:FB:323:THR:O	45:FB:326:VAL:N	2.40	0.53
44:FC:110:ILE:HG13	44:FC:111:GLY:N	2.23	0.53
45:FD:65:LEU:HD22	45:FD:90:PHE:CE1	2.44	0.53
45:FD:238:CYS:HB2	45:FD:318:ARG:CD	2.39	0.53
44:FE:318:MET:HE2	44:FE:318:MET:HA	1.90	0.53
45:FF:63:ALA:O	45:FF:64:ILE:HD13	2.09	0.53
44:FG:254:GLU:HG2	45:FJ:98:GLY:CA	2.33	0.53
44:FI:1:MET:HE1	44:FI:130:THR:OG1	2.08	0.53
44:FI:185:TYR:HE2	44:FI:404:PHE:HB2	1.72	0.53
45:FJ:20:PHE:HB2	45:FJ:233:MET:CE	2.38	0.53
45:FL:304:ASP:OD1	45:FL:305:PRO:HD2	2.08	0.53
44:FM:20:CYS:HB2	44:FM:232:ALA:HB2	1.89	0.53
44:GA:134:GLY:CA	44:GA:164:LYS:HE3	2.38	0.53
44:GA:183:GLU:N	44:GA:184:PRO:HD2	2.23	0.53
45:GB:304:ASP:OD1	45:GB:305:PRO:HD2	2.08	0.53
45:GD:334:GLN:HE22	45:GD:348:ASN:H	1.55	0.53
44:GE:93:ILE:HD12	44:GE:93:ILE:H	1.73	0.53
44:GE:270:SER:HB3	44:GE:378:ILE:HD13	1.89	0.53
44:GE:390:ARG:HG3	44:GE:391:LEU:HD12	1.91	0.53
45:GF:143:THR:HG22	48:GF:501:GDP:O2B	2.09	0.53
45:GF:383:GLU:O	45:GF:386:THR:HG22	2.08	0.53
44:GG:101:ASN:HA	44:GG:144:GLY:H	1.72	0.53
44:GG:212:ILE:HD12	44:GG:300:ASN:OD1	2.08	0.53
45:GH:46:ARG:HG3	45:GH:46:ARG:NH1	2.22	0.53
45:GH:296:ALA:O	45:GH:299:MET:HE1	2.09	0.53
45:GH:342:VAL:HG23	45:GH:345:ILE:CG2	2.36	0.53
45:GJ:293:MET:CE	45:GJ:365:VAL:HG12	2.38	0.53
44:GK:1:MET:HE2	45:GN:70:PRO:HG2	1.90	0.53
44:GK:247:ALA:HB2	44:GK:357:TYR:OH	2.08	0.53
45:GL:240:LEU:CD1	45:GL:250:LEU:HG	2.39	0.53
45:GL:309:ARG:N	45:GL:372:THR:OG1	2.33	0.53
45:GL:320:ARG:HG2	45:GL:363:MET:HE3	1.91	0.53
45:GN:86:ARG:HH12	45:HN:282:ARG:HG3	1.74	0.53
45:GN:139:LEU:HD11	45:GN:185:ALA:CA	2.32	0.53
44:HA:183:GLU:HG3	44:HA:184:PRO:CD	2.39	0.53
44:HA:278:ALA:CB	44:HA:369:ALA:HB2	2.37	0.53
45:HB:131:GLN:HG3	45:HB:250:LEU:HD12	1.90	0.53
44:HC:271:SER:HA	44:HC:302:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HC:501:GTP:N7	45:HD:246:LEU:HD11	2.24	0.53
45:HD:16:ILE:O	45:HD:20:PHE:N	2.42	0.53
45:HD:316:LEU:O	45:HD:365:VAL:HA	2.08	0.53
44:HG:105:ARG:HH21	44:HG:110:ILE:HG21	1.72	0.53
45:HH:61:PRO:HD2	45:HH:84:LEU:HB3	1.90	0.53
45:HH:323:THR:O	45:HH:327:ASP:N	2.27	0.53
44:HI:241:SER:OG	44:HI:250:VAL:O	2.25	0.53
45:HJ:152:ILE:HA	45:HJ:155:VAL:HG22	1.90	0.53
45:HJ:278:SER:OG	45:HJ:281:TYR:HB2	2.09	0.53
44:HK:260:VAL:HG13	44:HK:265:ILE:O	2.09	0.53
45:HL:309:ARG:HH22	45:HL:341:PHE:HA	1.72	0.53
45:HN:257:LEU:HD11	45:HN:314:SER:HB2	1.91	0.53
44:IA:109:THR:HG23	44:IA:110:ILE:HG12	1.90	0.53
45:IB:114:ASP:OD1	45:IB:115:SER:N	2.42	0.53
45:IB:319:GLY:HA2	45:IB:357:PRO:HG3	1.89	0.53
45:IB:425:TYR:HA	45:IB:428:ALA:CB	2.37	0.53
44:IC:19:ALA:HA	44:IC:22:GLU:OE1	2.08	0.53
44:IC:70:LEU:HD11	44:IC:149:LEU:CD2	2.36	0.53
45:ID:318:ARG:HD3	45:ID:356:ILE:O	2.08	0.53
44:IE:174:SER:CB	44:IE:207:GLU:HB2	2.39	0.53
44:II:101:ASN:OD1	45:IJ:252:LYS:HG3	2.08	0.53
44:II:183:GLU:N	44:II:184:PRO:HD2	2.23	0.53
44:II:204:LEU:HD13	44:II:231:ILE:HD12	1.89	0.53
45:IJ:215:LEU:HB3	45:IJ:217:LEU:HD23	1.90	0.53
45:IL:239:CYS:SG	45:IL:248:SER:OG	2.66	0.53
44:IM:313:MET:HB2	44:IM:380:ASN:HB3	1.90	0.53
44:IM:334:THR:O	44:IM:338:LYS:HG2	2.08	0.53
44:JA:352:LYS:HD2	45:JD:177:ASP:O	2.08	0.53
45:JB:100:ASN:HD21	45:JB:103:LYS:HE3	1.73	0.53
44:JC:80:THR:C	44:JC:84:ARG:HD2	2.29	0.53
44:JE:2:ARG:HD3	44:JE:2:ARG:N	2.23	0.53
44:JE:132:LEU:HG	44:JE:164:LYS:HZ1	1.73	0.53
44:JG:90:GLU:HB3	44:KG:280:LYS:NZ	2.24	0.53
45:JH:49:VAL:HG12	45:JH:50:TYR:CD1	2.43	0.53
45:JH:87:PRO:HD3	45:KH:281:TYR:CD2	2.39	0.53
45:JN:242:PHE:HD2	45:JN:356:ILE:HG21	1.73	0.53
45:KB:379:LYS:HD3	45:KB:419:VAL:HG11	1.90	0.53
44:KC:16:VAL:HA	44:KC:228:ASN:OD1	2.08	0.53
44:KC:176:GLN:HG2	44:KC:177:VAL:N	2.23	0.53
45:KF:153:SER:HA	45:KF:195:ASN:ND2	2.24	0.53
45:KF:240:LEU:HD12	45:KF:249:ASP:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:319:GLY:N	45:KF:354:CYS:O	2.41	0.53
44:KI:166:LYS:CE	44:KI:197:HIS:O	2.55	0.53
44:KI:199:ASP:O	44:KI:266:HIS:HB2	2.07	0.53
44:KI:409:VAL:O	44:KI:409:VAL:HG22	2.08	0.53
44:KK:205:ASP:CG	44:KK:303:ALA:HA	2.29	0.53
44:KK:311:LYS:CB	44:KK:344:VAL:HB	2.38	0.53
45:KL:144:GLY:N	48:KL:501:GDP:O1B	2.35	0.53
44:KM:49:PHE:HB2	44:KM:53:PHE:HD2	1.72	0.53
44:KM:230:LEU:HD21	44:KM:368:LEU:HD21	1.90	0.53
44:LA:115:VAL:HG11	44:LA:152:LEU:HD21	1.91	0.53
44:LC:217:LEU:HD13	44:LC:367:ASP:OD2	2.09	0.53
45:LH:217:LEU:HD11	45:LH:220:PRO:HG3	1.90	0.53
44:LI:21:TRP:CH2	44:LI:63:PRO:HB2	2.43	0.53
44:LI:30:ILE:HD13	44:LI:53:PHE:CE2	2.42	0.53
45:LJ:7:ILE:HD11	45:LJ:135:ILE:HD11	1.90	0.53
44:LK:398:MET:CG	45:LL:345:ILE:HG22	2.38	0.53
44:MA:316:SER:OG	44:MA:378:ILE:HB	2.08	0.53
44:MA:316:SER:OG	44:MA:378:ILE:O	2.18	0.53
45:MB:113:ILE:HD13	45:MB:150:LEU:CD2	2.38	0.53
44:MC:221:ARG:CD	45:MD:322:SER:HB3	2.38	0.53
46:MC:501:GTP:C8	45:MD:246:LEU:HD21	2.44	0.53
45:MD:202:ILE:HD13	45:MD:300:MET:CE	2.36	0.53
44:ME:183:GLU:N	44:ME:183:GLU:OE1	2.38	0.53
44:ME:269:LEU:HD22	44:ME:433:GLU:C	2.29	0.53
44:ME:384:ILE:HG13	44:ME:432:TYR:CE2	2.44	0.53
44:MI:239:THR:HG22	44:MI:239:THR:O	2.08	0.53
45:MJ:42:LEU:HD13	45:MJ:356:ILE:HD11	1.89	0.53
45:ML:207:LEU:HA	45:ML:210:ILE:HG22	1.89	0.53
44:MM:66:VAL:HG11	44:MM:122:ILE:HD13	1.90	0.53
44:MM:181:VAL:CG1	45:MN:256:ASN:HD22	2.04	0.53
44:MM:241:SER:HA	44:MM:356:ASN:ND2	2.22	0.53
45:MN:325:GLU:O	45:MN:329:GLN:HB2	2.09	0.53
44:NA:220:GLU:HG2	44:NA:221:ARG:HD3	1.90	0.53
45:NB:7:ILE:HD11	45:NB:66:MET:HE2	1.90	0.53
45:NB:68:LEU:HD23	45:NB:97:ALA:CA	2.38	0.53
45:NB:134:GLN:HA	45:NB:165:GLU:O	2.07	0.53
45:NB:198:GLU:OE2	45:NB:254:ALA:HB2	2.08	0.53
44:NC:105:ARG:HG2	44:NC:110:ILE:HG12	1.90	0.53
44:NC:170:THR:O	44:NC:171:ILE:HD13	2.08	0.53
45:ND:334:GLN:HG3	45:ND:341:PHE:HD2	1.73	0.53
44:NE:404:PHE:CZ	45:NF:259:PRO:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:4:ILE:HG23	45:NH:132:GLY:O	2.07	0.53
45:NH:134:GLN:O	45:NH:135:ILE:HD13	2.08	0.53
45:NH:170:VAL:HG13	45:NH:171:PRO:CD	2.38	0.53
45:NH:248:SER:OG	45:NH:252:LYS:HD3	2.09	0.53
45:NJ:315:ALA:O	45:NJ:316:LEU:HD12	2.08	0.53
44:NK:65:ALA:HB3	44:NK:87:PHE:CE1	2.43	0.53
45:NL:303:ALA:HB2	45:NL:377:MET:HG2	1.91	0.53
44:NM:105:ARG:HA	44:NM:109:THR:OG1	2.08	0.53
45:NN:118:ASP:O	45:NN:122:LYS:HD3	2.08	0.53
44:OA:118:CYS:O	44:OA:122:ILE:HG13	2.08	0.53
44:OA:199:ASP:O	44:OA:266:HIS:HB2	2.08	0.53
45:OB:3:GLU:O	45:OB:130:LEU:HD12	2.08	0.53
45:OB:14:ASN:HB3	45:OB:76:VAL:HG21	1.91	0.53
45:OB:289:LEU:CD1	45:OB:363:MET:HB3	2.36	0.53
44:OC:274:PRO:CD	44:OC:374:ALA:HA	2.38	0.53
45:OD:319:GLY:HA2	45:OD:357:PRO:CG	2.38	0.53
44:OE:151:SER:O	44:OE:155:GLU:N	2.25	0.53
44:OE:183:GLU:N	44:OE:184:PRO:HD2	2.23	0.53
44:OE:276:ILE:CG2	44:OE:281:ALA:HB2	2.38	0.53
44:OI:60:LYS:HG2	44:OI:61:HIS:H	1.72	0.53
44:OI:242:LEU:CD2	44:OI:252:ILE:HG23	2.38	0.53
45:OJ:241:ARG:O	45:OJ:242:PHE:HD1	1.91	0.53
45:OL:210:ILE:HG23	45:OL:214:THR:HG21	1.91	0.53
45:OL:407:GLU:HA	45:OL:410:GLU:OE1	2.08	0.53
44:PA:262:TYR:HB3	44:PA:263:PRO:HD2	1.91	0.53
45:PB:30:ILE:HD11	45:PB:47:ILE:HD11	1.89	0.53
45:PB:112:LEU:O	45:PB:112:LEU:HD23	2.09	0.53
44:PC:154:LEU:HD22	44:PC:166:LYS:CE	2.38	0.53
45:PD:5:VAL:HG22	45:PD:133:PHE:CE2	2.43	0.53
45:PF:286:VAL:CG2	45:PF:325:GLU:HG2	2.38	0.53
44:PI:208:ALA:HB3	44:PI:302:MET:O	2.09	0.53
45:PJ:178:THR:HG22	45:PJ:180:VAL:H	1.71	0.53
45:PN:99:ASN:O	45:PN:180:VAL:HG11	2.09	0.53
45:QB:68:LEU:HG	45:QB:96:GLY:CA	2.37	0.53
45:QB:326:VAL:O	45:QB:330:MET:N	2.19	0.53
44:QC:258:ASN:HD22	44:QC:352:LYS:CD	2.12	0.53
45:QF:22:GLU:HG2	45:QF:81:PHE:HB2	1.90	0.53
44:QG:141:VAL:HG11	44:QG:172:TYR:HD1	1.73	0.53
45:QH:8:GLN:NE2	45:QH:14:ASN:HA	2.23	0.53
44:QI:60:LYS:NZ	44:QI:86:LEU:HA	2.24	0.53
45:QJ:168:SER:HB2	45:QJ:201:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:141:VAL:HG11	44:QK:172:TYR:HD1	1.71	0.53
44:QK:268:MET:HB3	44:QK:380:ASN:HB2	1.91	0.53
44:QM:102:ASN:OD1	44:QM:105:ARG:N	2.41	0.53
44:QM:128:ASN:HD21	44:RM:285:GLN:NE2	2.06	0.53
44:QM:377:MET:CE	44:QM:379:SER:HB3	2.38	0.53
45:QN:42:LEU:HG	45:QN:45:GLU:OE2	2.09	0.53
44:RC:261:PRO:HB3	44:RC:346:TRP:CH2	2.43	0.53
44:RE:15:GLN:HA	44:RE:18:ASN:OD1	2.09	0.53
44:RE:199:ASP:O	44:RE:266:HIS:HB2	2.08	0.53
44:RE:282:TYR:HE1	44:RE:370:LYS:HE3	1.73	0.53
45:RF:285:THR:OG1	45:RF:288:GLU:HG2	2.09	0.53
44:RG:186:ASN:OD1	44:RG:187:SER:N	2.41	0.53
45:RH:332:ASN:ND2	45:RH:336:LYS:HE2	2.23	0.53
44:RI:19:ALA:CB	44:RI:228:ASN:HB3	2.38	0.53
45:RJ:213:ARG:NE	45:RJ:213:ARG:HA	2.23	0.53
45:RN:22:GLU:HG2	45:RN:81:PHE:CD1	2.43	0.53
45:RN:67:ASP:O	45:RN:92:PHE:HA	2.07	0.53
45:RN:290:THR:HA	45:RN:293:MET:CG	2.39	0.53
44:SA:183:GLU:N	44:SA:184:PRO:HD2	2.22	0.53
44:SA:272:TYR:CD1	44:SA:376:CYS:HB2	2.38	0.53
45:SB:256:ASN:HD21	44:SC:180:ALA:HB1	1.73	0.53
45:SD:141:GLY:HA3	48:SD:501:GDP:O2B	2.08	0.53
45:SD:186:THR:CA	45:SD:189:VAL:HG22	2.38	0.53
44:SE:183:GLU:N	44:SE:184:PRO:HD2	2.24	0.53
45:SF:8:GLN:OE1	45:SF:17:GLY:HA3	2.09	0.53
45:SF:49:VAL:HG11	45:SF:241:ARG:CG	2.38	0.53
45:SF:178:THR:CG2	45:SF:180:VAL:HG12	2.39	0.53
44:SG:23:LEU:CD1	44:SG:361:THR:HG23	2.39	0.53
45:SH:101:TRP:CE3	45:SH:187:LEU:HB3	2.43	0.53
45:SH:192:LEU:HG	45:SH:196:ALA:CB	2.39	0.53
44:SI:432:TYR:O	44:SI:435:VAL:HG12	2.09	0.53
45:SJ:173:PRO:HG3	45:SJ:380:ARG:HD3	1.91	0.53
45:SJ:190:HIS:ND1	45:SJ:411:ALA:HA	2.24	0.53
44:SK:259:LEU:HD21	44:SK:316:SER:CB	2.37	0.53
45:SL:11:GLN:HB3	48:SL:501:GDP:O1A	2.08	0.53
45:SL:201:VAL:HG22	45:SL:266:PHE:O	2.08	0.53
45:SL:323:THR:CG2	44:SM:223:THR:HA	2.34	0.53
44:SM:8:HIS:HB2	44:SM:67:PHE:HD1	1.74	0.53
44:TA:294:SER:HA	44:TA:297:GLU:OE2	2.08	0.53
45:TD:38:GLY:HA3	45:TD:43:GLN:NE2	2.23	0.53
45:TD:62:ARG:O	45:TD:62:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:342:VAL:HG13	45:TD:345:ILE:HG22	1.89	0.53
44:TE:123:ARG:O	44:TE:127:ASP:N	2.41	0.53
44:TE:319:TYR:HA	44:TE:375:VAL:HB	1.90	0.53
45:TF:183:TYR:CE2	45:TF:394:PHE:HB2	2.40	0.53
44:TG:106:GLY:C	44:TG:148:GLY:HA3	2.28	0.53
44:TG:321:GLY:O	44:TG:357:TYR:HA	2.08	0.53
45:TH:240:LEU:O	45:TH:240:LEU:HD23	2.09	0.53
44:TI:383:ALA:O	44:TI:386:GLU:HG2	2.08	0.53
44:TK:102:ASN:CG	44:TK:105:ARG:HG3	2.29	0.53
45:TL:3:GLU:HG2	45:TL:127:CYS:HB2	1.90	0.53
45:TL:274:THR:HG21	45:TL:279:GLN:CG	2.38	0.53
45:TN:255:VAL:HG23	45:TN:256:ASN:N	2.24	0.53
44:UA:206:ASN:ND2	44:UA:227:LEU:HD21	2.24	0.53
45:UB:163:ILE:HG21	45:UB:251:ARG:HG2	1.91	0.53
45:UB:257:LEU:HD11	45:UB:314:SER:HB2	1.90	0.53
45:UF:201:VAL:HG23	45:UF:301:CYS:SG	2.47	0.53
44:UG:182:VAL:C	44:UG:184:PRO:HD2	2.28	0.53
45:UH:319:GLY:HA2	45:UH:357:PRO:HB3	1.90	0.53
44:UI:209:ILE:HG12	44:UI:302:MET:SD	2.48	0.53
45:UL:291:GLN:NE2	45:UL:292:GLN:HB2	2.23	0.53
45:UN:52:ASN:OD1	45:UN:62:ARG:NH2	2.41	0.53
45:UN:66:MET:HG3	45:UN:147:MET:CE	2.38	0.53
44:VC:276:ILE:CD1	44:VC:280:LYS:HG3	2.37	0.53
45:VH:36:TYR:CZ	45:VH:44:LEU:HD11	2.42	0.53
45:VJ:290:THR:HG23	45:VJ:291:GLN:H	1.74	0.53
44:VM:101:ASN:HA	44:VM:144:GLY:HA3	1.91	0.53
45:VN:288:GLU:O	45:VN:291:GLN:HG3	2.08	0.53
44:WA:320:ARG:HH21	44:WA:360:PRO:HA	1.74	0.53
45:WB:2:ARG:HB2	45:WB:131:GLN:OE1	2.09	0.53
45:WD:199:CYS:HG	45:WD:265:PHE:HE1	1.57	0.53
44:WE:115:VAL:HG21	44:WE:156:ARG:HD2	1.88	0.53
44:WE:326:LYS:HG2	45:WH:220:PRO:HD2	1.91	0.53
45:WF:178:THR:O	45:WF:181:GLU:HG3	2.09	0.53
45:WH:26:ASP:O	45:WH:29:GLY:N	2.42	0.53
45:WJ:197:ASP:O	45:WJ:264:HIS:HB2	2.08	0.53
44:WK:394:LYS:NZ	45:WL:347:ASN:OD1	2.30	0.53
45:WL:318:ARG:HD3	45:WL:358:PRO:CG	2.37	0.53
44:WM:409:VAL:HA	44:WM:413:MET:O	2.08	0.53
45:WN:200:MET:HE2	45:WN:268:ILE:HG12	1.90	0.53
45:WN:230:SER:HA	45:WN:233:MET:HB3	1.90	0.53
1:6H:339:GLN:NE2	45:FJ:357:PRO:HG2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0C:58:GLY:HA3	44:EI:279:GLU:CG	2.39	0.53
5:0D:224:ARG:NH2	35:7R:582:TYR:HB3	2.23	0.53
2:2A:128:HIS:CD2	45:AJ:361:LEU:HG	2.44	0.53
2:2A:149:PRO:HG2	44:AI:364:PRO:HA	1.88	0.53
21:2K:433:LEU:HD11	44:GE:278:ALA:CB	2.35	0.53
24:2O:156:ARG:NH1	44:VK:279:GLU:H	2.06	0.53
24:2O:235:MET:CE	45:VJ:279:GLN:HB3	2.39	0.53
24:2O:242:LEU:HD12	45:VJ:276:ARG:NH1	2.24	0.53
24:2O:322:ARG:HE	44:VE:364:PRO:HA	1.71	0.53
26:2R:392:LEU:HD13	45:EH:276:ARG:HH12	1.72	0.53
15:2V:98:LEU:CD1	44:LE:405:VAL:HG21	2.21	0.53
2:3A:150:LEU:HD12	35:6R:86:LEU:O	2.09	0.53
12:3S:261:LEU:HA	45:AN:424:GLN:NE2	2.23	0.53
34:4F:139:ALA:HB1	44:IK:359:PRO:HD2	1.91	0.53
37:5D:111:LEU:HD11	44:NM:285:GLN:N	2.22	0.53
38:5F:60:TRP:HZ3	45:OF:274:THR:CG2	2.15	0.53
35:5R:127:ILE:HD11	35:5R:150:ILE:HB	1.89	0.53
35:5R:446:PHE:CE2	35:5R:487:GLU:HG2	2.44	0.53
35:5R:535:LEU:O	35:5R:538:PHE:HB3	2.08	0.53
41:6G:205:LEU:HD22	45:UF:158:GLU:HG2	1.90	0.53
35:6R:20:HIS:CD2	44:LK:357:TYR:HH	2.27	0.53
35:6R:436:GLU:HB3	45:FN:280:GLN:NE2	2.11	0.53
35:7R:129:VAL:HG12	35:7R:144:PHE:HB3	1.89	0.53
44:AA:145:THR:HG22	46:AA:501:GTP:O2G	2.09	0.53
44:AA:305:CYS:SG	44:AA:383:ALA:HB1	2.48	0.53
45:AD:135:ILE:HG12	45:AD:164:MET:CE	2.39	0.53
45:AH:21:TRP:HA	45:AH:24:ILE:CG2	2.35	0.53
45:AH:295:ASP:OD1	45:AH:296:ALA:N	2.42	0.53
44:AI:259:LEU:HD21	44:AI:316:SER:HB3	1.89	0.53
45:AJ:42:LEU:HD22	45:AJ:356:ILE:HD11	1.90	0.53
45:AL:19:LYS:HG2	45:AL:226:ASN:CB	2.39	0.53
44:AM:317:MET:CE	44:AM:377:MET:HB3	2.36	0.53
45:AN:304:ASP:OD1	45:AN:306:ARG:HG2	2.08	0.53
45:BD:217:LEU:HD11	45:BD:220:PRO:CG	2.36	0.53
44:BE:70:LEU:HD13	44:BE:110:ILE:HD11	1.89	0.53
44:BE:188:ILE:HG23	44:BE:425:LEU:CD1	2.38	0.53
44:BE:288:VAL:HG11	44:BE:327:ASP:OD1	2.09	0.53
44:BG:51:THR:HG21	44:BG:243:ARG:HD2	1.90	0.53
44:BG:320:ARG:HD2	44:BG:360:PRO:HD3	1.90	0.53
45:BH:113:ILE:HG13	45:BH:116:VAL:CG1	2.38	0.53
45:BJ:105:HIS:CD2	45:BJ:150:LEU:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:107:THR:CG2	45:BJ:401:GLU:HB3	2.38	0.53
45:BJ:143:THR:HG22	48:BJ:502:GDP:O3B	2.08	0.53
45:BJ:260:PHE:HB3	45:BJ:261:PRO:HD2	1.90	0.53
45:BJ:342:VAL:HG13	45:BJ:345:ILE:CG2	2.34	0.53
45:BL:132:GLY:HA3	45:BL:163:ILE:HG13	1.90	0.53
45:BN:24:ILE:HA	45:BN:27:GLU:CG	2.34	0.53
44:CA:314:ALA:HB3	44:CA:380:ASN:CB	2.38	0.53
45:CB:222:TYR:HB3	45:CB:226:ASN:ND2	2.24	0.53
45:CB:257:LEU:HB3	45:CB:266:PHE:CE2	2.43	0.53
45:CD:65:LEU:CD2	45:CD:73:MET:HE1	2.38	0.53
44:CE:13:GLY:O	44:CE:16:VAL:HG12	2.08	0.53
45:CF:260:PHE:HE1	44:CG:403:ALA:HA	1.73	0.53
45:CH:356:ILE:CG2	45:CH:357:PRO:HB3	2.38	0.53
45:CH:382:ALA:O	45:CH:386:THR:HG23	2.08	0.53
44:CK:112:LYS:HA	44:CK:115:VAL:HG12	1.91	0.53
45:CL:187:LEU:HD11	45:CL:408:PHE:CE1	2.42	0.53
44:DA:3:GLU:OE2	44:DA:129:CYS:HA	2.09	0.53
44:DA:133:GLN:HG3	44:DA:242:LEU:HD22	1.91	0.53
44:DA:212:ILE:HD11	44:DA:300:ASN:HA	1.89	0.53
45:DB:152:ILE:O	45:DB:156:ARG:HD2	2.09	0.53
45:DB:405:GLU:OE1	45:DB:405:GLU:N	2.34	0.53
44:DC:183:GLU:CD	44:DC:184:PRO:HD3	2.29	0.53
45:DD:73:MET:HE3	45:DD:92:PHE:HB3	1.88	0.53
45:DD:253:LEU:O	45:DD:257:LEU:HD13	2.07	0.53
44:DE:10:GLY:O	44:DE:13:GLY:N	2.40	0.53
44:DE:66:VAL:HG21	44:DE:121:ARG:CG	2.32	0.53
44:DE:311:LYS:NZ	44:DE:344:VAL:HG23	2.23	0.53
45:DF:5:VAL:HG12	45:DF:62:ARG:CG	2.39	0.53
45:DF:283:ALA:O	45:DF:288:GLU:HG3	2.07	0.53
44:DI:261:PRO:HG3	44:DI:313:MET:HG3	1.91	0.53
45:DJ:30:ILE:HD11	45:DJ:34:GLY:C	2.28	0.53
45:DL:25:SER:HB2	45:DL:81:PHE:HE2	1.73	0.53
44:DM:1:MET:CE	45:DN:94:GLN:HG2	2.38	0.53
44:DM:296:PHE:CE2	44:DM:335:ILE:HG21	2.43	0.53
45:EB:296:ALA:CB	45:EB:306:ARG:HE	2.22	0.53
45:EB:332:ASN:O	45:EB:336:LYS:HG2	2.08	0.53
45:EF:73:MET:CE	45:EF:92:PHE:HB2	2.39	0.53
45:EF:318:ARG:HB3	45:EF:358:PRO:HD3	1.89	0.53
45:EF:320:ARG:O	45:EF:321:MET:HG2	2.08	0.53
45:EF:376:GLU:O	45:EF:379:LYS:NZ	2.34	0.53
44:EG:250:VAL:HG21	44:EG:318:MET:CE	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:12:CYS:O	45:EH:16:ILE:HG12	2.09	0.53
45:EH:377:MET:HA	45:EH:380:ARG:HD2	1.90	0.53
44:EI:36:MET:SD	44:EI:36:MET:N	2.80	0.53
45:EJ:163:ILE:HG13	45:EJ:251:ARG:HG2	1.90	0.53
45:EJ:310:TYR:CE1	45:EJ:371:SER:HB2	2.43	0.53
45:EL:50:TYR:CD2	45:EL:241:ARG:HD3	2.44	0.53
45:EL:293:MET:HE2	45:EL:367:PHE:CD1	2.43	0.53
44:EM:60:LYS:HD3	44:FK:283:HIS:HA	1.89	0.53
44:EM:195:LEU:HA	44:EM:266:HIS:HE1	1.72	0.53
44:EM:209:ILE:CG2	44:EM:227:LEU:HD22	2.38	0.53
44:EM:212:ILE:HD13	44:EM:215:ARG:HH22	1.73	0.53
44:EM:334:THR:HA	44:EM:337:THR:HB	1.90	0.53
45:EN:40:SER:OG	45:EN:43:GLN:HB3	2.08	0.53
45:EN:169:VAL:HA	45:EN:202:ILE:O	2.07	0.53
45:EN:181:GLU:HB2	45:EN:182:PRO:HD3	1.90	0.53
45:EN:274:THR:CG2	45:EN:279:GLN:HG3	2.38	0.53
45:FB:240:LEU:HD12	45:FB:250:LEU:H	1.74	0.53
44:FC:270:SER:C	44:FC:302:MET:HE2	2.29	0.53
45:FD:123:GLU:O	45:FD:126:GLY:N	2.36	0.53
45:FD:161:ASP:OD1	45:FD:162:ARG:HG2	2.08	0.53
44:FE:257:THR:HG22	45:FH:397:TRP:CH2	2.43	0.53
45:FF:162:ARG:NE	45:FF:162:ARG:HA	2.24	0.53
44:FG:105:ARG:HH21	44:FG:109:THR:HG21	1.73	0.53
44:FG:119:LEU:HA	44:FG:122:ILE:HG22	1.90	0.53
44:FG:387:VAL:O	44:FG:391:LEU:HD13	2.09	0.53
45:FH:72:THR:HG23	45:FH:73:MET:N	2.24	0.53
45:FH:371:SER:O	45:FH:422:TYR:OH	2.26	0.53
45:FJ:314:SER:CB	45:FJ:350:LYS:HB3	2.38	0.53
44:FK:223:THR:HG23	44:FK:225:THR:H	1.73	0.53
45:FN:16:ILE:HD12	45:FN:229:VAL:HG11	1.89	0.53
45:FN:342:VAL:HG22	45:FN:344:TRP:H	1.73	0.53
44:GA:182:VAL:O	44:GA:182:VAL:HG22	2.09	0.53
45:GB:167:PHE:HA	45:GB:200:MET:H	1.74	0.53
45:GB:221:THR:HG22	45:GB:224:ASP:CG	2.29	0.53
45:GB:318:ARG:HB3	45:GB:357:PRO:HA	1.90	0.53
45:GD:285:THR:O	45:GD:288:GLU:N	2.39	0.53
44:GE:14:ILE:HD13	44:GE:75:ILE:HD11	1.90	0.53
44:GE:363:VAL:CG1	44:GE:364:PRO:HD2	2.36	0.53
45:GF:124:ALA:HB3	45:GF:159:TYR:OH	2.09	0.53
45:GF:290:THR:HG21	45:GF:329:GLN:CD	2.29	0.53
44:GG:280:LYS:HD3	44:GG:283:HIS:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:171:ILE:HD13	44:GI:204:LEU:CB	2.37	0.53
44:GI:300:ASN:OD1	44:GI:300:ASN:O	2.26	0.53
44:GK:177:VAL:HG23	45:GL:331:LEU:HD23	1.91	0.53
44:GK:317:MET:CA	44:GK:377:MET:HB3	2.38	0.53
45:GL:296:ALA:HB2	45:GL:306:ARG:HH22	1.74	0.53
44:GM:5:ILE:HG22	44:GM:7:ILE:HD11	1.90	0.53
44:GM:121:ARG:NH1	44:GM:124:LYS:HD2	2.24	0.53
45:GN:248:SER:CB	45:GN:252:LYS:HD2	2.38	0.53
45:GN:325:GLU:HA	45:GN:328:GLU:OE2	2.08	0.53
44:HA:1:MET:HE3	45:HD:94:GLN:CB	2.39	0.53
44:HA:371:VAL:HG12	44:HA:372:MET:N	2.23	0.53
45:HB:268:ILE:O	45:HB:300:MET:HE2	2.08	0.53
45:HD:21:TRP:CE3	45:HD:61:PRO:HB3	2.43	0.53
45:HD:42:LEU:HD22	45:HD:356:ILE:HD11	1.89	0.53
44:HE:275:ILE:HA	44:HE:368:LEU:HD11	1.91	0.53
45:HF:198:GLU:OE2	45:HF:254:ALA:HB2	2.07	0.53
44:HG:183:GLU:HG2	44:HG:184:PRO:CD	2.38	0.53
45:HH:135:ILE:N	45:HH:165:GLU:O	2.26	0.53
45:HJ:1:MET:O	45:HJ:49:VAL:HG22	2.08	0.53
44:HK:171:ILE:HG23	44:HK:204:LEU:O	2.08	0.53
44:HK:290:GLU:HA	44:HK:293:ASN:ND2	2.22	0.53
44:HK:301:MET:HG3	44:HK:307:PRO:CG	2.39	0.53
44:HM:145:THR:O	44:HM:149:LEU:HD23	2.08	0.53
44:IC:89:PRO:HD3	45:JD:281:TYR:HD2	1.71	0.53
45:ID:268:ILE:HG13	45:ID:300:MET:CE	2.39	0.53
44:IE:112:LYS:O	44:IE:115:VAL:HG12	2.08	0.53
44:IE:271:SER:HB2	44:IE:377:MET:CG	2.38	0.53
44:IE:278:ALA:N	44:IE:369:ALA:HB2	2.23	0.53
45:IH:4:ILE:CD1	45:IH:131:GLN:HB3	2.38	0.53
45:IH:167:PHE:HZ	45:IH:200:MET:HE3	1.73	0.53
45:IJ:161:ASP:O	45:IJ:162:ARG:NH2	2.42	0.53
45:IJ:317:PHE:CE2	45:IJ:326:VAL:HG13	2.44	0.53
45:IJ:377:MET:O	45:IJ:380:ARG:HG2	2.08	0.53
44:IK:69:ASP:HB3	44:IK:75:ILE:CG1	2.38	0.53
44:IK:306:ASP:OD2	44:IK:309:HIS:NE2	2.42	0.53
44:IK:326:LYS:CE	45:IN:219:THR:HG22	2.39	0.53
45:IL:170:VAL:HG11	45:IL:201:VAL:HB	1.91	0.53
44:IM:15:GLN:HA	44:IM:18:ASN:HD21	1.72	0.53
45:IN:305:PRO:HB2	45:IN:310:TYR:OH	2.07	0.53
45:JB:133:PHE:O	45:JB:164:MET:HA	2.08	0.53
44:JC:326:LYS:O	44:JC:329:ASN:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:104:GLY:O	45:JD:147:MET:HB2	2.07	0.53
44:JE:428:LEU:HA	44:JE:431:ASP:OD2	2.08	0.53
45:JF:133:PHE:CD2	45:JF:155:VAL:HG11	2.43	0.53
45:JF:210:ILE:HG12	45:JF:297:LYS:HZ3	1.72	0.53
44:JG:188:ILE:O	44:JG:191:THR:HG22	2.08	0.53
44:JG:372:MET:HG3	44:JG:373:ARG:HH11	1.72	0.53
44:JK:88:HIS:HE1	44:JK:90:GLU:HG2	1.70	0.53
44:JK:288:VAL:HA	44:JK:291:ILE:CD1	2.39	0.53
45:JL:206:ALA:O	45:JL:210:ILE:HG22	2.09	0.53
44:KA:63:PRO:HG3	44:KA:86:LEU:HG	1.90	0.53
44:KA:216:ASN:HD22	44:KA:275:ILE:HB	1.71	0.53
45:KB:107:THR:HG21	45:KB:401:GLU:CG	2.39	0.53
45:KD:13:GLY:O	45:KD:16:ILE:HG22	2.08	0.53
45:KD:152:ILE:HG23	45:KD:164:MET:SD	2.48	0.53
44:KE:55:GLU:O	44:LE:285:GLN:NE2	2.42	0.53
44:KK:100:ALA:O	45:KL:255:VAL:HG21	2.08	0.53
45:KL:12:CYS:HB3	45:KL:138:SER:HB3	1.88	0.53
45:KL:101:TRP:CH2	45:KL:188:SER:HA	2.44	0.53
44:KM:5:ILE:HB	44:KM:135:PHE:CE1	2.43	0.53
44:KM:99:ALA:HB2	44:KM:110:ILE:HD11	1.91	0.53
44:KM:335:ILE:HA	44:KM:338:LYS:HE3	1.89	0.53
44:LA:56:THR:OG1	44:MA:284:GLU:HA	2.08	0.53
44:LA:311:LYS:CG	44:LA:342:GLN:HE22	2.22	0.53
45:LB:1:MET:SD	45:LB:2:ARG:HG2	2.48	0.53
45:LD:201:VAL:HG23	45:LD:301:CYS:SG	2.48	0.53
45:LD:343:GLU:OE2	45:LD:430:ALA:N	2.40	0.53
45:LF:173:PRO:HB3	45:LF:384:GLN:OE1	2.08	0.53
44:LG:27:GLU:OE1	44:LG:243:ARG:NH2	2.37	0.53
44:LG:54:SER:OG	44:LG:64:ARG:NH1	2.42	0.53
45:LH:143:THR:HG23	45:LH:144:GLY:N	2.24	0.53
44:LI:216:ASN:O	44:LI:277:SER:HB2	2.08	0.53
45:LJ:1:MET:HG2	45:LJ:46:ARG:NH2	2.23	0.53
45:LJ:216:LYS:HB3	45:LJ:275:SER:CB	2.37	0.53
45:LJ:258:ILE:HD11	45:LJ:266:PHE:HZ	1.73	0.53
45:LL:231:ALA:HB1	45:LL:270:PHE:HE2	1.73	0.53
44:MC:3:GLU:OE2	44:MC:131:GLY:N	2.42	0.53
44:MC:288:VAL:O	44:MC:291:ILE:HG12	2.08	0.53
45:MD:304:ASP:OD1	45:MD:305:PRO:HD2	2.09	0.53
44:ME:384:ILE:HG21	44:ME:432:TYR:CE2	2.44	0.53
44:MG:119:LEU:HA	44:MG:122:ILE:HB	1.90	0.53
44:MG:326:LYS:HD3	45:MJ:212:PHE:HE2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:58:ARG:HH12	45:MJ:60:VAL:HA	1.73	0.53
45:MJ:144:GLY:N	48:MJ:502:GDP:O1B	2.40	0.53
44:MK:311:LYS:HD2	44:MK:342:GLN:HG3	1.89	0.53
45:MN:185:ALA:O	45:MN:189:VAL:HG23	2.09	0.53
44:NA:242:LEU:HD21	44:NA:252:ILE:HG22	1.91	0.53
44:NA:332:ILE:O	44:NA:335:ILE:HG22	2.08	0.53
45:NB:22:GLU:HA	45:NB:81:PHE:HD2	1.73	0.53
45:NB:383:GLU:O	45:NB:386:THR:HG22	2.09	0.53
44:NC:420:GLU:HA	44:NC:423:GLU:HB2	1.89	0.53
44:NE:250:VAL:HG11	44:NE:352:LYS:NZ	2.23	0.53
44:NG:325:PRO:HG3	45:NJ:222:TYR:CD2	2.43	0.53
44:NG:407:TRP:CE3	45:NH:255:VAL:HG23	2.43	0.53
45:NH:255:VAL:O	45:NH:255:VAL:HG22	2.08	0.53
45:NH:341:PHE:HB3	45:NH:348:ASN:ND2	2.19	0.53
44:NK:223:THR:HB	45:NL:322:SER:CB	2.39	0.53
45:NL:20:PHE:O	45:NL:23:VAL:HG12	2.09	0.53
45:NL:171:PRO:O	45:NL:380:ARG:NH2	2.34	0.53
44:NM:408:TYR:HB3	44:NM:413:MET:HE2	1.90	0.53
45:NN:16:ILE:HG22	45:NN:226:ASN:HD22	1.72	0.53
45:NN:107:THR:HG21	45:NN:401:GLU:OE1	2.08	0.53
44:OA:99:ALA:HB1	44:OA:105:ARG:HB2	1.90	0.53
44:OA:430:LYS:O	44:OA:433:GLU:N	2.42	0.53
45:OB:21:TRP:O	45:OB:25:SER:N	2.30	0.53
45:OB:321:MET:HE2	45:OB:325:GLU:HG3	1.91	0.53
45:OB:371:SER:O	45:OB:374:ILE:HG12	2.08	0.53
45:OD:172:SER:HB2	45:OD:380:ARG:NH1	2.23	0.53
45:OD:200:MET:HB3	45:OD:266:PHE:HB2	1.91	0.53
45:OD:262:ARG:HG2	45:OD:262:ARG:O	2.09	0.53
45:OD:397:TRP:O	45:OD:400:GLY:N	2.41	0.53
45:OF:103:LYS:HA	45:OF:107:THR:OG1	2.09	0.53
45:OF:268:ILE:HA	45:OF:367:PHE:O	2.09	0.53
44:OG:406:HIS:O	44:OG:409:VAL:HG12	2.09	0.53
45:OH:60:VAL:HG21	45:OH:86:ARG:HB2	1.91	0.53
45:OJ:240:LEU:HD12	45:OJ:249:ASP:CB	2.38	0.53
45:OL:102:ALA:HB1	45:OL:401:GLU:HG2	1.90	0.53
45:ON:211:CYS:O	45:ON:215:LEU:HB2	2.08	0.53
45:ON:377:MET:HA	45:ON:380:ARG:NH1	2.23	0.53
45:PD:2:ARG:NH1	45:PD:240:LEU:HD11	2.23	0.53
45:PD:265:PHE:HB2	45:PD:374:ILE:CD1	2.39	0.53
45:PD:290:THR:HG21	45:PD:329:GLN:CD	2.28	0.53
44:PE:67:PHE:O	44:PE:68:LEU:HD22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:183:GLU:N	44:PE:184:PRO:HD2	2.22	0.53
44:PE:310:GLY:HA3	44:PE:382:THR:OG1	2.08	0.53
45:PH:19:LYS:O	45:PH:23:VAL:N	2.39	0.53
45:PH:193:VAL:HG12	45:PH:265:PHE:HE1	1.72	0.53
44:PI:246:GLY:HA2	44:PI:357:TYR:CE2	2.43	0.53
44:PI:319:TYR:CZ	44:PI:328:VAL:HG13	2.44	0.53
45:PJ:233:MET:O	45:PJ:237:THR:HG22	2.07	0.53
45:PJ:237:THR:HG23	45:PJ:241:ARG:HH21	1.74	0.53
45:PJ:310:TYR:N	45:PJ:340:TYR:O	2.41	0.53
44:PK:252:ILE:HD12	44:PK:255:PHE:CD2	2.43	0.53
45:PL:143:THR:HG23	45:PL:144:GLY:N	2.23	0.53
44:PM:170:THR:O	44:PM:204:LEU:HD12	2.09	0.53
44:QC:145:THR:N	46:QC:501:GTP:O3B	2.41	0.53
44:QC:271:SER:HB2	44:QC:377:MET:SD	2.49	0.53
44:QE:234:VAL:HG22	44:QE:302:MET:CE	2.38	0.53
45:QF:246:LEU:HD11	44:QG:224:TYR:CE2	2.41	0.53
45:QF:309:ARG:HH22	45:QF:342:VAL:HG23	1.74	0.53
44:QG:93:ILE:HD12	44:QG:93:ILE:H	1.73	0.53
44:QG:99:ALA:HA	44:QG:105:ARG:HD3	1.89	0.53
44:QK:33:ASP:O	44:QK:35:GLN:NE2	2.42	0.53
45:QL:269:GLY:HA2	45:QL:300:MET:SD	2.49	0.53
45:QL:304:ASP:HB3	45:QL:307:HIS:CG	2.44	0.53
44:QM:27:GLU:OE2	44:QM:243:ARG:NH2	2.42	0.53
45:QN:86:ARG:HB2	45:QN:89:ASN:CG	2.28	0.53
44:RA:67:PHE:HB2	44:RA:92:LEU:HG	1.90	0.53
45:RB:327:ASP:HA	45:RB:330:MET:CE	2.39	0.53
44:RC:99:ALA:HB2	44:RC:110:ILE:HD11	1.91	0.53
44:RC:251:ASP:HB2	44:RC:253:THR:HG22	1.90	0.53
45:RD:204:ASN:O	45:RD:207:LEU:N	2.41	0.53
44:RI:104:ALA:HB1	44:RI:411:GLU:CB	2.39	0.53
44:RI:257:THR:HA	45:RJ:397:TRP:NE1	2.23	0.53
45:RJ:189:VAL:HB	45:RJ:415:MET:HE1	1.91	0.53
44:RK:288:VAL:O	44:RK:292:THR:HG22	2.09	0.53
45:RL:136:THR:HG22	45:RL:167:PHE:CG	2.43	0.53
44:RM:248:LEU:CD1	48:RN:501:GDP:H5 <sup>γ</sup>	2.38	0.53
45:RN:178:THR:HG22	45:RN:180:VAL:N	2.22	0.53
44:SA:103:PHE:HB2	44:SA:147:SER:HB2	1.89	0.53
44:SA:217:LEU:HD13	44:SA:367:ASP:HB3	1.90	0.53
44:SC:288:VAL:CA	44:SC:291:ILE:HG12	2.33	0.53
45:SD:186:THR:HG21	45:SD:412:GLU:CD	2.28	0.53
44:SE:154:LEU:HA	44:SE:157:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:310:TYR:HD2	45:SF:341:PHE:HE1	1.56	0.53
45:SF:317:PHE:CE2	45:SF:326:VAL:HG13	2.43	0.53
44:SG:2:ARG:HA	44:SG:133:GLN:HE22	1.72	0.53
45:SH:72:THR:O	45:SH:76:VAL:N	2.40	0.53
44:SI:161:TYR:HD2	44:SI:164:LYS:HG3	1.73	0.53
45:SJ:217:LEU:CD1	45:SJ:220:PRO:HG3	2.39	0.53
44:SK:318:MET:SD	44:SK:354:GLY:HA3	2.48	0.53
44:SM:99:ALA:HB3	44:SM:145:THR:CG2	2.38	0.53
45:SN:392:LYS:HG3	45:SN:395:LEU:HD22	1.91	0.53
44:TC:259:LEU:HD13	44:TC:268:MET:HE2	1.91	0.53
45:TD:102:ALA:HB2	45:TD:398:TYR:HA	1.90	0.53
45:TD:329:GLN:O	45:TD:333:VAL:N	2.41	0.53
44:TE:306:ASP:HB3	44:TE:309:HIS:CE1	2.44	0.53
45:TF:174:LYS:CD	45:TF:175:VAL:HG13	2.39	0.53
45:TF:255:VAL:HA	44:TG:407:TRP:HZ3	1.71	0.53
44:TG:71:GLU:OE1	44:TG:73:THR:N	2.35	0.53
45:TH:131:GLN:O	45:TH:163:ILE:HG12	2.08	0.53
45:TJ:27:GLU:OE2	45:TJ:241:ARG:NH1	2.34	0.53
45:TJ:295:ASP:O	45:TJ:299:MET:HE2	2.07	0.53
44:TM:99:ALA:O	44:TM:105:ARG:HD3	2.09	0.53
44:TM:370:LYS:O	44:TM:370:LYS:HG3	2.07	0.53
44:UA:4:VAL:N	44:UA:51:THR:HG23	2.23	0.53
45:UB:105:HIS:CE1	45:UB:150:LEU:HD12	2.43	0.53
44:UE:313:MET:HB2	44:UE:346:TRP:HH2	1.72	0.53
45:UH:149:THR:OG1	45:UH:191:GLN:HB3	2.09	0.53
44:UI:183:GLU:HA	44:UI:186:ASN:CG	2.29	0.53
44:UI:385:ALA:HA	44:UI:388:PHE:HD2	1.73	0.53
45:UJ:21:TRP:HZ3	45:UJ:51:TYR:HE1	1.56	0.53
45:UJ:122:LYS:CE	45:UJ:123:GLU:HG2	2.39	0.53
45:UJ:271:ALA:HB1	45:UJ:272:PRO:HA	1.90	0.53
45:UJ:406:MET:O	45:UJ:409:THR:HB	2.08	0.53
44:UK:23:LEU:HD11	44:UK:233:GLN:OE1	2.08	0.53
44:UK:384:ILE:HG21	44:UK:432:TYR:CE1	2.43	0.53
45:UL:68:LEU:CD2	45:UL:97:ALA:HB2	2.38	0.53
45:UL:315:ALA:HB3	45:UL:351:SER:CA	2.39	0.53
45:UL:423:GLN:O	45:UL:426:GLN:HB3	2.08	0.53
44:UM:6:SER:O	44:UM:7:ILE:HD13	2.08	0.53
44:VA:146:GLY:H	46:VA:501:GTP:PB	2.32	0.53
44:VA:216:ASN:OD1	44:VA:275:ILE:HG22	2.07	0.53
44:VC:325:PRO:O	44:VC:328:VAL:N	2.36	0.53
44:VE:91:GLN:HG3	44:VE:121:ARG:HH21	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:181:VAL:HB	45:VF:342:VAL:C	2.28	0.53
44:VG:332:ILE:O	44:VG:336:LYS:HG3	2.08	0.53
44:VI:145:THR:HG23	46:VI:501:GTP:O2G	2.09	0.53
44:VI:182:VAL:C	44:VI:184:PRO:HD2	2.29	0.53
45:VJ:180:VAL:HG23	45:VJ:183:TYR:CD2	2.44	0.53
45:VL:299:MET:CG	45:VL:305:PRO:HG3	2.26	0.53
44:WA:88:HIS:HB2	44:WA:91:GLN:HE21	1.72	0.53
44:WA:152:LEU:O	44:WA:156:ARG:HB3	2.08	0.53
45:WB:3:GLU:OE2	45:WB:127:CYS:HB2	2.09	0.53
45:WB:21:TRP:HZ3	45:WB:50:TYR:HB3	1.74	0.53
45:WB:211:CYS:O	45:WB:216:LYS:N	2.41	0.53
45:WD:398:TYR:HB3	45:WD:403:MET:HB2	1.89	0.53
44:WE:70:LEU:HD11	44:WE:149:LEU:CD2	2.38	0.53
45:WF:62:ARG:HG3	45:WF:62:ARG:O	2.08	0.53
45:WF:68:LEU:HD23	45:WF:143:THR:OG1	2.08	0.53
45:WH:210:ILE:HD11	45:WH:300:MET:CE	2.38	0.53
45:WH:327:ASP:HA	45:WH:330:MET:CE	2.38	0.53
44:WI:179:THR:HG23	45:WJ:351:SER:CB	2.32	0.53
45:WL:358:PRO:HG2	45:WL:364:ALA:CB	2.38	0.53
44:WM:2:ARG:HB2	44:WM:133:GLN:OE1	2.09	0.53
44:WM:222:PRO:HD2	45:WN:324:LYS:HD3	1.90	0.53
44:WM:256:GLN:HA	44:WM:260:VAL:CB	2.37	0.53
44:WM:426:ALA:O	44:WM:430:LYS:N	2.33	0.53
20:1J:188:TYR:HA	44:HG:85:GLN:HE22	1.74	0.53
20:1J:265:ALA:N	44:II:372:MET:HE2	2.22	0.53
24:1O:275:LYS:HD3	44:UA:279:GLU:CG	2.08	0.53
16:1X:103:ASN:HB2	44:MC:282:TYR:CZ	2.38	0.53
2:2A:134:LYS:O	45:AJ:320:ARG:NH2	2.42	0.53
2:2A:147:ARG:NH2	35:5R:75:ASN:OD1	2.41	0.53
6:2E:135:GLY:HA3	35:5R:433:GLN:HE21	1.73	0.53
25:2P:407:GLN:HG2	45:SL:56:GLY:N	2.16	0.53
26:2R:411:VAL:HG22	44:EG:370:LYS:HD3	1.91	0.53
28:3C:3:LEU:HD11	45:LB:39:ASP:HB2	1.90	0.53
31:3H:203:LYS:HE3	44:AG:225:THR:CB	2.14	0.53
32:3I:243:LYS:CB	44:GI:215:ARG:HH22	2.22	0.53
12:3S:43:TYR:HB2	44:WK:88:HIS:HE2	1.67	0.53
31:4H:187:LEU:HD12	45:AL:279:GLN:HB3	1.90	0.53
35:4R:404:LEU:HB2	45:DF:77:ARG:NH1	2.22	0.53
38:5G:157:ARG:O	38:5G:161:ASP:N	2.41	0.53
39:5I:106:GLY:O	39:5I:110:LYS:HG2	2.08	0.53
35:5R:318:TYR:HB3	35:5R:321:MET:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:578:TYR:HE2	35:5R:580:LEU:HG	1.74	0.53
36:5S:98:TYR:CE2	36:5S:134:LYS:HE3	2.41	0.53
40:6F:44:ARG:HH21	40:6F:56:LEU:HD11	1.73	0.53
35:6R:322:THR:O	45:CN:276:ARG:NH2	2.41	0.53
35:7R:83:PRO:HG2	35:7R:86:LEU:HB2	1.89	0.53
35:7R:311:LYS:HD2	35:7R:329:TYR:HE1	1.73	0.53
35:7R:555:ASN:HD21	35:7R:576:LEU:N	2.07	0.53
42:8L:369:UNK:CB	44:SC:370:LYS:HD3	2.38	0.53
45:AD:152:ILE:HA	45:AD:155:VAL:HG22	1.90	0.53
44:AE:145:THR:HG23	44:AE:146:GLY:N	2.24	0.53
44:AE:260:VAL:HG23	45:AH:397:TRP:CZ2	2.41	0.53
45:AH:67:ASP:OD1	45:AH:68:LEU:N	2.42	0.53
44:AI:306:ASP:OD2	44:AI:308:ARG:NH2	2.42	0.53
44:AI:328:VAL:O	44:AI:332:ILE:HG12	2.09	0.53
44:AM:224:TYR:O	44:AM:227:LEU:HB2	2.08	0.53
44:BA:115:VAL:HG21	44:BA:156:ARG:HD2	1.90	0.53
44:BA:221:ARG:HH22	45:BB:325:GLU:N	2.04	0.53
45:BB:127:CYS:SG	45:BB:130:LEU:HD13	2.48	0.53
44:BC:352:LYS:HA	45:BF:177:ASP:O	2.09	0.53
45:BD:54:ALA:HB1	45:CB:281:TYR:O	2.08	0.53
45:BD:390:ARG:HH12	45:BD:391:ARG:HD3	1.71	0.53
44:BE:107:HIS:HD2	44:BE:152:LEU:HB2	1.74	0.53
45:BF:46:ARG:O	45:BF:49:VAL:HG12	2.09	0.53
45:BH:3:GLU:HB2	45:BH:49:VAL:O	2.09	0.53
45:BH:270:PHE:CD2	45:BH:273:LEU:HD21	2.44	0.53
44:BI:208:ALA:HB3	44:BI:302:MET:O	2.08	0.53
45:BJ:374:ILE:HD11	45:BJ:422:TYR:CE1	2.43	0.53
45:BL:68:LEU:HD11	45:BL:108:GLU:HG3	1.90	0.53
44:CA:267:PHE:HB2	44:CA:432:TYR:OH	2.09	0.53
44:CA:271:SER:HA	44:CA:302:MET:HE1	1.90	0.53
45:CB:4:ILE:HD12	45:CB:134:GLN:OE1	2.09	0.53
45:CB:163:ILE:HD11	45:CB:250:LEU:HD12	1.91	0.53
44:CC:53:PHE:HE2	44:CC:63:PRO:HG3	1.74	0.53
44:CC:210:TYR:CE1	44:CC:227:LEU:HD21	2.44	0.53
44:CC:272:TYR:OH	44:CC:374:ALA:HB1	2.08	0.53
45:CD:135:ILE:HG13	45:CD:152:ILE:CD1	2.38	0.53
45:CD:200:MET:HE3	45:CD:268:ILE:HG21	1.91	0.53
45:CD:294:PHE:CD2	45:CD:333:VAL:HG21	2.44	0.53
45:CD:314:SER:CB	45:CD:350:LYS:HB3	2.39	0.53
45:CF:22:GLU:CG	45:CF:81:PHE:HB2	2.38	0.53
45:CF:81:PHE:O	45:CF:84:LEU:HD13	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:86:ARG:HG3	45:DF:281:TYR:HB3	1.91	0.53
45:CH:68:LEU:HD21	45:CH:147:MET:CE	2.38	0.53
45:CL:105:HIS:O	45:CL:105:HIS:ND1	2.41	0.53
45:DB:187:LEU:HD11	45:DB:408:PHE:CZ	2.44	0.53
45:DB:225:LEU:O	45:DB:228:LEU:HB2	2.08	0.53
45:DB:382:ALA:HB2	45:DB:415:MET:CE	2.39	0.53
45:DD:395:LEU:HG	45:DD:399:THR:HG23	1.91	0.53
44:DE:137:VAL:CG1	44:DE:168:GLY:HA2	2.38	0.53
44:DE:185:TYR:O	44:DE:188:ILE:N	2.41	0.53
44:DG:93:ILE:HD11	44:DG:121:ARG:HG3	1.90	0.53
44:DG:183:GLU:N	44:DG:184:PRO:HD2	2.24	0.53
45:DH:11:GLN:HG3	45:DH:72:THR:HG21	1.89	0.53
45:DH:166:THR:OG1	45:DH:199:CYS:HA	2.09	0.53
45:DH:322:SER:N	45:DH:323:THR:HA	2.23	0.53
45:DJ:42:LEU:HD13	45:DJ:45:GLU:CD	2.29	0.53
44:DK:200:VAL:HG13	44:DK:268:MET:HE2	1.90	0.53
45:DL:215:LEU:HA	45:DL:274:THR:O	2.08	0.53
45:DL:286:VAL:O	45:DL:290:THR:HG22	2.08	0.53
44:DM:210:TYR:HE1	44:DM:227:LEU:HD11	1.73	0.53
45:DN:130:LEU:CG	45:DN:162:ARG:HD2	2.39	0.53
45:DN:193:VAL:HG23	45:DN:264:HIS:HE1	1.72	0.53
44:EA:271:SER:OG	44:EA:301:MET:SD	2.64	0.53
44:EC:25:CYS:HA	44:EC:30:ILE:HB	1.91	0.53
45:ED:175:VAL:O	45:ED:175:VAL:HG23	2.08	0.53
45:ED:176:SER:HB2	45:ED:181:GLU:OE1	2.08	0.53
45:ED:245:GLN:C	45:ED:246:LEU:HD12	2.29	0.53
44:EE:99:ALA:CB	44:EE:145:THR:HB	2.39	0.53
45:EH:81:PHE:O	45:EH:84:LEU:HD13	2.09	0.53
44:EI:230:LEU:CD1	44:EI:275:ILE:HD13	2.38	0.53
45:EJ:12:CYS:O	45:EJ:16:ILE:HG12	2.09	0.53
45:EJ:131:GLN:HE22	44:EK:97:GLU:CD	2.11	0.53
45:EJ:193:VAL:HA	45:EJ:264:HIS:CE1	2.44	0.53
45:EL:268:ILE:HA	45:EL:367:PHE:O	2.08	0.53
45:EL:383:GLU:CA	45:EL:386:THR:HG22	2.38	0.53
44:EM:14:ILE:HD11	44:EM:69:ASP:HB2	1.91	0.53
44:EM:33:ASP:O	44:EM:35:GLN:NE2	2.42	0.53
44:EM:71:GLU:OE1	44:EM:73:THR:HB	2.07	0.53
44:EM:291:ILE:HG13	44:EM:292:THR:N	2.23	0.53
44:EM:373:ARG:N	44:EM:373:ARG:HD2	2.22	0.53
45:EN:28:HIS:HE1	45:EN:47:ILE:HD12	1.74	0.53
45:EN:73:MET:HE1	45:EN:92:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:221:THR:O	45:EN:224:ASP:HB2	2.09	0.53
45:FB:221:THR:HG23	45:FB:224:ASP:H	1.74	0.53
44:FC:191:THR:HA	44:FC:194:LEU:HG	1.89	0.53
44:FG:73:THR:HB	45:FH:247:ASN:ND2	2.23	0.53
44:FG:284:GLU:HG3	44:FG:286:LEU:CD1	2.38	0.53
44:FG:298:PRO:HG3	44:FG:308:ARG:NH1	2.22	0.53
45:FH:270:PHE:CD2	45:FH:273:LEU:HD21	2.43	0.53
45:FH:271:ALA:HB1	45:FH:272:PRO:HA	1.91	0.53
45:FH:318:ARG:HD3	45:FH:357:PRO:HA	1.91	0.53
44:FM:175:PRO:HB2	44:FM:176:GLN:OE1	2.09	0.53
45:FN:44:LEU:HD23	45:FN:47:ILE:CD1	2.39	0.53
45:FN:293:MET:HE1	45:FN:315:ALA:HA	1.89	0.53
45:GB:87:PRO:HA	45:GB:90:PHE:HD2	1.73	0.53
45:GB:327:ASP:O	45:GB:330:MET:HB2	2.08	0.53
44:GC:288:VAL:O	44:GC:292:THR:HG22	2.09	0.53
44:GG:10:GLY:C	44:GG:14:ILE:HD12	2.29	0.53
44:GG:175:PRO:HB3	44:GG:390:ARG:NE	2.24	0.53
44:GG:210:TYR:CZ	45:GH:324:LYS:HB2	2.43	0.53
45:GJ:256:ASN:O	45:GJ:257:LEU:HD12	2.08	0.53
44:GK:276:ILE:CD1	44:GK:281:ALA:HA	2.39	0.53
45:GL:99:ASN:C	45:GL:142:GLY:HA3	2.29	0.53
45:GL:173:PRO:HD2	45:GL:380:ARG:HD3	1.90	0.53
45:GL:329:GLN:O	45:GL:332:ASN:HB3	2.08	0.53
45:GN:139:LEU:HD13	45:GN:188:SER:OG	2.09	0.53
45:GN:237:THR:HG23	45:GN:241:ARG:HE	1.74	0.53
45:GN:285:THR:OG1	45:GN:288:GLU:HG2	2.08	0.53
44:HA:91:GLN:HG3	44:HA:121:ARG:CG	2.39	0.53
44:HA:175:PRO:HD2	44:HA:207:GLU:OE1	2.07	0.53
45:HB:344:TRP:CZ3	45:HB:345:ILE:HB	2.43	0.53
45:HB:388:MET:HE2	45:HB:393:ALA:O	2.07	0.53
44:HC:51:THR:HG21	44:HC:243:ARG:HB3	1.91	0.53
44:HC:60:LYS:NZ	44:HC:85:GLN:O	2.41	0.53
44:HC:258:ASN:C	44:HC:259:LEU:HD23	2.29	0.53
44:HC:270:SER:C	44:HC:302:MET:HE2	2.29	0.53
44:HE:386:GLU:O	44:HE:390:ARG:HG2	2.09	0.53
45:HF:97:ALA:HB2	45:HF:143:THR:HB	1.90	0.53
45:HH:286:VAL:HG23	45:HH:287:PRO:CD	2.35	0.53
44:IA:141:VAL:HG11	44:IA:172:TYR:HD1	1.73	0.53
44:IA:270:SER:HB2	44:IA:377:MET:O	2.08	0.53
45:IB:119:VAL:CG2	45:IB:122:LYS:HE3	2.33	0.53
45:IB:135:ILE:O	45:IB:166:THR:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:29:GLY:HA3	45:ID:43:GLN:OE1	2.08	0.53
45:ID:287:PRO:O	45:ID:290:THR:HG22	2.09	0.53
45:ID:372:THR:HA	45:ID:422:TYR:CE2	2.32	0.53
44:IE:194:LEU:CD1	44:IE:267:PHE:HZ	2.21	0.53
44:IE:272:TYR:HD2	44:IE:275:ILE:HD11	1.73	0.53
44:IG:11:GLN:HB3	46:IG:501:GTP:PB	2.48	0.53
44:IG:176:GLN:OE1	45:IH:331:LEU:HD13	2.07	0.53
44:II:179:THR:HG23	44:II:180:ALA:N	2.24	0.53
44:II:182:VAL:O	44:II:182:VAL:HG22	2.08	0.53
45:IL:232:ALA:HB1	45:IL:268:ILE:HD12	1.91	0.53
45:IL:287:PRO:HD3	45:IL:325:GLU:OE2	2.09	0.53
44:IM:22:GLU:CA	44:IM:25:CYS:HB2	2.31	0.53
44:IM:212:ILE:HD13	44:IM:215:ARG:HH21	1.73	0.53
44:IM:332:ILE:HD12	44:IM:351:PHE:CD2	2.43	0.53
44:JC:239:THR:O	44:JC:239:THR:HG22	2.09	0.53
44:JE:175:PRO:HD2	44:JE:207:GLU:HB3	1.91	0.53
44:JE:362:VAL:HG21	44:JE:368:LEU:O	2.09	0.53
44:JG:25:CYS:SG	44:JG:30:ILE:HD11	2.49	0.53
44:JG:36:MET:CE	44:JG:41:THR:HG21	2.34	0.53
44:JG:67:PHE:HB2	44:JG:92:LEU:HD23	1.91	0.53
45:JH:60:VAL:HG21	45:JH:86:ARG:CZ	2.37	0.53
44:JI:238:LEU:HA	44:JI:318:MET:HE3	1.91	0.53
44:JI:291:ILE:HD11	44:JI:319:TYR:HE2	1.74	0.53
44:JK:264:ARG:HG2	44:JK:428:LEU:CD1	2.39	0.53
44:JK:294:SER:HA	44:JK:297:GLU:HG2	1.91	0.53
45:JN:253:LEU:HB3	45:JN:257:LEU:CD1	2.36	0.53
45:JN:297:LYS:N	45:JN:297:LYS:HD3	2.24	0.53
45:KB:1:MET:N	45:KB:3:GLU:OE1	2.41	0.53
45:KB:200:MET:HE3	45:KB:266:PHE:HD2	1.74	0.53
44:KE:220:GLU:OE1	44:KE:221:ARG:NH1	2.41	0.53
44:KG:265:ILE:O	44:KG:265:ILE:HG13	2.08	0.53
45:KH:238:CYS:SG	45:KH:239:CYS:N	2.82	0.53
44:KI:168:GLY:O	44:KI:201:ALA:HA	2.09	0.53
44:KI:264:ARG:HG3	44:KI:264:ARG:HH11	1.73	0.53
44:KI:288:VAL:HA	44:KI:291:ILE:CG1	2.35	0.53
44:KK:17:GLY:HA2	44:KK:20:CYS:SG	2.49	0.53
45:KL:101:TRP:HZ3	45:KL:187:LEU:CB	2.18	0.53
44:KM:101:ASN:HA	44:KM:144:GLY:CA	2.36	0.53
44:KM:183:GLU:N	44:KM:184:PRO:HD2	2.23	0.53
45:LB:31:ASP:CG	45:LB:35:THR:H	2.12	0.53
45:LB:36:TYR:O	45:LB:37:HIS:ND1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LC:7:ILE:HD13	44:LC:66:VAL:CG1	2.37	0.53
44:LC:100:ALA:HB1	45:LD:252:LYS:HA	1.90	0.53
44:LC:123:ARG:HA	44:LC:123:ARG:NE	2.20	0.53
44:LE:14:ILE:HD11	44:LE:69:ASP:HB2	1.91	0.53
44:LE:88:HIS:HB3	44:LE:91:GLN:HG2	1.91	0.53
44:LE:175:PRO:CG	44:LE:304:LYS:HG2	2.37	0.53
45:LF:286:VAL:HG22	45:LF:363:MET:HE1	1.89	0.53
45:LJ:73:MET:SD	45:LJ:92:PHE:HB3	2.47	0.53
45:LJ:139:LEU:HD13	45:LJ:188:SER:OG	2.09	0.53
45:LL:321:MET:SD	45:LL:353:ILE:HG23	2.48	0.53
44:LM:222:PRO:HG2	45:LN:324:LYS:HD3	1.91	0.53
45:LN:187:LEU:HD21	45:LN:408:PHE:HE1	1.73	0.53
44:MA:67:PHE:C	44:MA:68:LEU:HD12	2.29	0.53
44:MA:263:PRO:HD3	45:MD:396:HIS:CG	2.44	0.53
44:MC:210:TYR:HB3	45:MD:324:LYS:HZ1	1.72	0.53
45:MD:151:LEU:O	45:MD:155:VAL:HG13	2.09	0.53
45:MD:202:ILE:CG2	45:MD:207:LEU:HD11	2.38	0.53
44:ME:151:SER:O	44:ME:155:GLU:HG3	2.08	0.53
44:MG:218:ASP:O	44:MG:219:ILE:HD13	2.09	0.53
44:MI:104:ALA:HB1	44:MI:411:GLU:OE1	2.08	0.53
44:MI:172:TYR:HD2	44:MI:203:MET:CE	2.21	0.53
44:MI:346:TRP:CD1	45:ML:391:ARG:HG3	2.43	0.53
45:MJ:269:GLY:HA2	45:MJ:300:MET:HG2	1.90	0.53
45:ML:238:CYS:HA	45:ML:241:ARG:NH2	2.24	0.53
45:MN:58:ARG:HG3	45:MN:86:ARG:NH2	2.24	0.53
45:MN:71:GLY:O	45:MN:74:ASP:HB2	2.09	0.53
44:NA:339:ARG:O	44:NA:339:ARG:HG2	2.09	0.53
45:NB:52:ASN:OD1	45:NB:53:GLU:N	2.41	0.53
45:NB:130:LEU:HD21	45:NB:133:PHE:HE1	1.72	0.53
45:NB:215:LEU:HD13	45:NB:273:LEU:HD21	1.89	0.53
44:NE:71:GLU:CD	44:NE:73:THR:H	2.11	0.53
44:NE:121:ARG:HE	44:NE:124:LYS:CE	2.21	0.53
44:NE:261:PRO:O	45:NH:393:ALA:HB1	2.08	0.53
45:NH:46:ARG:HG3	45:NH:241:ARG:O	2.08	0.53
45:NL:117:LEU:O	45:NL:120:VAL:HG12	2.09	0.53
45:NL:152:ILE:O	45:NL:155:VAL:HG22	2.08	0.53
45:NL:279:GLN:HB2	45:NL:281:TYR:CD2	2.43	0.53
45:NL:389:PHE:O	45:NL:392:LYS:N	2.41	0.53
44:NM:317:MET:HA	44:NM:376:CYS:O	2.08	0.53
44:OA:346:TRP:CZ2	45:OD:393:ALA:HB3	2.44	0.53
45:OB:83:GLN:O	45:PB:281:TYR:OH	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:289:LEU:HD11	45:OB:363:MET:CB	2.39	0.53
45:OD:36:TYR:CD1	45:OD:44:LEU:HD21	2.43	0.53
44:OE:178:SER:HB3	45:OF:347:ASN:ND2	2.24	0.53
45:OF:251:ARG:O	45:OF:254:ALA:HB3	2.09	0.53
44:OG:2:ARG:HD3	44:OG:242:LEU:HD22	1.89	0.53
44:OG:141:VAL:O	44:OG:186:ASN:HB3	2.08	0.53
44:OG:326:LYS:HZ3	45:OJ:212:PHE:HD2	1.55	0.53
44:OI:272:TYR:CE2	44:OI:275:ILE:HD11	2.44	0.53
44:OK:332:ILE:HG22	44:OK:336:LYS:NZ	2.23	0.53
44:OM:198:THR:O	44:OM:266:HIS:NE2	2.42	0.53
44:PA:9:VAL:HA	44:PA:68:LEU:O	2.09	0.53
44:PA:237:SER:HA	44:PA:320:ARG:HH11	1.72	0.53
45:PB:268:ILE:CG2	45:PB:368:VAL:HG22	2.38	0.53
44:PC:305:CYS:SG	44:PC:384:ILE:HD12	2.49	0.53
45:PD:99:ASN:OD1	45:PD:142:GLY:N	2.40	0.53
44:PE:205:ASP:OD1	44:PE:303:ALA:HA	2.08	0.53
44:PE:209:ILE:HG21	44:PE:227:LEU:HB3	1.90	0.53
44:PE:213:CYS:HA	44:PE:217:LEU:HD12	1.90	0.53
44:PE:324:VAL:HG13	44:PE:325:PRO:HD2	1.91	0.53
45:PH:4:ILE:HG22	45:PH:131:GLN:HB3	1.89	0.53
44:PI:105:ARG:NH1	45:PJ:251:ARG:HD3	2.23	0.53
44:PI:326:LYS:HD3	45:PL:212:PHE:CZ	2.43	0.53
44:PK:5:ILE:HG12	44:PK:64:ARG:HD3	1.90	0.53
44:PK:115:VAL:HG21	44:PK:152:LEU:CD2	2.37	0.53
45:PL:241:ARG:C	45:PL:242:PHE:HD1	2.11	0.53
45:PL:289:LEU:HD13	45:PL:365:VAL:HG23	1.90	0.53
45:PL:303:ALA:N	45:PL:377:MET:HE2	2.23	0.53
45:PL:317:PHE:CE1	45:PL:326:VAL:HG13	2.44	0.53
44:PM:287:SER:O	44:PM:290:GLU:HG2	2.07	0.53
44:PM:398:MET:HE2	45:PN:345:ILE:HG13	1.90	0.53
44:QA:114:ILE:O	44:QA:114:ILE:HG22	2.08	0.53
45:QB:135:ILE:HG13	45:QB:152:ILE:CD1	2.37	0.53
45:QB:325:GLU:HG2	45:QB:329:GLN:HG3	1.90	0.53
45:QB:415:MET:O	45:QB:419:VAL:HG23	2.08	0.53
44:QC:183:GLU:HG2	44:QC:184:PRO:CD	2.38	0.53
44:QG:119:LEU:HD13	44:QG:122:ILE:HD11	1.91	0.53
44:QG:182:VAL:O	44:QG:182:VAL:HG22	2.07	0.53
45:QJ:234:SER:CA	45:QJ:237:THR:HG22	2.38	0.53
45:QJ:258:ILE:HB	44:QK:407:TRP:CH2	2.44	0.53
45:QJ:290:THR:HG21	45:QJ:329:GLN:OE1	2.08	0.53
45:QJ:345:ILE:O	45:QJ:345:ILE:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:202:ILE:HD13	45:QL:300:MET:HB3	1.90	0.53
44:RA:30:ILE:HG23	44:RA:36:MET:CE	2.39	0.53
45:RB:30:ILE:HG22	45:RB:34:GLY:HA2	1.91	0.53
45:RB:52:ASN:HB2	45:RB:60:VAL:CG1	2.38	0.53
45:RB:293:MET:HG2	45:RB:294:PHE:CD1	2.44	0.53
44:RC:53:PHE:CG	44:RC:61:HIS:HB3	2.44	0.53
44:RC:72:PRO:HA	44:RC:75:ILE:HD13	1.90	0.53
45:RD:70:PRO:O	45:RD:73:MET:HG3	2.09	0.53
45:RD:101:TRP:CD2	45:RD:187:LEU:HD13	2.44	0.53
45:RF:284:LEU:HD12	45:RF:362:LYS:HE2	1.90	0.53
45:RF:322:SER:N	44:RG:221:ARG:HH21	2.06	0.53
44:RG:37:PRO:O	44:RG:38:SER:OG	2.27	0.53
44:RG:200:VAL:HG12	44:RG:201:ALA:N	2.24	0.53
45:RH:5:VAL:HG22	45:RH:133:PHE:CD1	2.43	0.53
45:RH:288:GLU:HA	45:RH:291:GLN:HG3	1.90	0.53
45:RJ:10:GLY:HA2	45:RJ:143:THR:CG2	2.25	0.53
45:RJ:118:ASP:HA	45:RJ:121:ARG:HB3	1.91	0.53
44:RK:188:ILE:HD12	44:RK:425:LEU:HD11	1.90	0.53
44:RK:205:ASP:OD2	44:RK:304:LYS:N	2.42	0.53
45:RL:9:GLY:O	45:RL:13:GLY:HA3	2.08	0.53
45:RN:11:GLN:CD	45:RN:72:THR:HB	2.29	0.53
45:RN:113:ILE:CA	45:RN:116:VAL:HG12	2.33	0.53
45:RN:286:VAL:N	45:RN:363:MET:HE3	2.22	0.53
44:SA:157:LEU:HD22	44:SA:161:TYR:CE2	2.44	0.53
44:SA:213:CYS:CA	44:SA:217:LEU:HB2	2.39	0.53
44:SA:324:VAL:O	44:SA:327:ASP:HB2	2.09	0.53
44:SE:143:GLY:HA2	46:SE:501:GTP:O2G	2.09	0.53
44:SG:185:TYR:CE2	44:SG:404:PHE:HB2	2.35	0.53
44:SI:26:LEU:HD12	44:SI:26:LEU:O	2.09	0.53
44:SI:75:ILE:HG23	44:SI:92:LEU:CD2	2.34	0.53
44:SI:270:SER:O	44:SI:302:MET:HB2	2.08	0.53
45:SJ:28:HIS:NE2	45:SJ:241:ARG:HD2	2.23	0.53
45:SJ:257:LEU:HB2	45:SJ:266:PHE:HE2	1.73	0.53
45:SJ:320:ARG:O	45:SJ:321:MET:CE	2.57	0.53
45:SL:238:CYS:CB	45:SL:318:ARG:HD2	2.38	0.53
45:SL:327:ASP:HB2	44:SM:177:VAL:HG13	1.90	0.53
45:SN:217:LEU:O	45:SN:217:LEU:HD12	2.09	0.53
44:TA:434:GLU:OE2	44:TA:435:VAL:HG23	2.09	0.53
45:TB:200:MET:SD	45:TB:268:ILE:HG12	2.48	0.53
45:TD:164:MET:H	45:TD:197:ASP:CB	2.22	0.53
44:TE:252:ILE:HG12	44:TE:255:PHE:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:439:THR:HG21	45:TF:390:ARG:HD3	1.91	0.53
44:TG:408:TYR:HB3	44:TG:413:MET:HE3	1.89	0.53
44:TI:257:THR:HG21	45:TJ:98:GLY:O	2.09	0.53
45:TJ:127:CYS:SG	45:TJ:130:LEU:HB2	2.48	0.53
45:TJ:263:LEU:HG	45:TJ:422:TYR:HD1	1.73	0.53
44:TK:4:VAL:HG13	44:TK:134:GLY:O	2.06	0.53
44:TK:66:VAL:HG23	44:TK:91:GLN:O	2.09	0.53
45:TL:86:ARG:NH2	45:TL:87:PRO:HD2	2.22	0.53
45:TL:156:ARG:NH1	45:TL:164:MET:HE1	2.24	0.53
45:TL:375:GLN:OE1	45:TL:423:GLN:HB3	2.08	0.53
44:TM:215:ARG:HH22	44:TM:300:ASN:HA	1.74	0.53
44:TM:390:ARG:O	44:TM:394:LYS:HB2	2.08	0.53
45:TN:31:ASP:OD2	45:TN:37:HIS:ND1	2.42	0.53
44:UA:28:HIS:HE2	44:UA:243:ARG:HD2	1.74	0.53
45:UB:2:ARG:HB2	45:UB:131:GLN:OE1	2.08	0.53
44:UC:84:ARG:NH1	44:UC:85:GLN:OE1	2.42	0.53
45:UD:200:MET:CE	45:UD:202:ILE:HD11	2.39	0.53
45:UD:331:LEU:HD22	44:UE:177:VAL:HG22	1.91	0.53
44:UE:207:GLU:O	44:UE:210:TYR:HB2	2.09	0.53
44:UI:21:TRP:HZ2	44:UI:65:ALA:HB2	1.73	0.53
44:UI:135:PHE:CZ	44:UI:157:LEU:HD22	2.44	0.53
45:UJ:411:ALA:O	45:UJ:415:MET:HB2	2.08	0.53
44:UK:175:PRO:HB3	44:UK:390:ARG:NE	2.24	0.53
44:UK:312:TYR:HB2	44:UK:343:PHE:CD1	2.44	0.53
45:UL:390:ARG:O	45:UL:392:LYS:NZ	2.36	0.53
44:UM:272:TYR:CD1	44:UM:376:CYS:HB2	2.43	0.53
45:UN:315:ALA:HB3	45:UN:351:SER:CA	2.31	0.53
44:VA:238:LEU:O	44:VA:238:LEU:HD23	2.09	0.53
45:VD:390:ARG:HD3	45:VD:391:ARG:NH1	2.23	0.53
45:VD:423:GLN:NE2	45:VD:426:GLN:HB3	2.24	0.53
44:VE:118:CYS:O	44:VE:122:ILE:HG12	2.08	0.53
44:VE:324:VAL:CG1	44:VE:325:PRO:HD2	2.39	0.53
45:VF:268:ILE:HG22	45:VF:368:VAL:HG12	1.91	0.53
44:VG:21:TRP:O	44:VG:25:CYS:N	2.39	0.53
44:VG:67:PHE:C	44:VG:68:LEU:HD12	2.28	0.53
44:VG:88:HIS:ND1	44:VG:90:GLU:HG2	2.24	0.53
45:VH:172:SER:OG	45:VH:205:GLU:OE1	2.24	0.53
44:VI:238:LEU:HD21	44:VI:255:PHE:HE2	1.74	0.53
44:VI:356:ASN:OD1	44:VI:357:TYR:N	2.39	0.53
45:VJ:49:VAL:HG12	45:VJ:50:TYR:CD1	2.43	0.53
45:VJ:193:VAL:HA	45:VJ:264:HIS:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:392:LYS:HD2	45:VJ:395:LEU:CD2	2.38	0.53
45:VL:23:VAL:HG21	45:VL:230:SER:HB3	1.90	0.53
45:VL:318:ARG:O	45:VL:321:MET:HE1	2.08	0.53
44:VM:18:ASN:OD1	44:VM:19:ALA:N	2.40	0.53
44:VM:99:ALA:HB2	44:VM:145:THR:HB	1.91	0.53
45:VN:36:TYR:CZ	45:VN:44:LEU:HG	2.44	0.53
45:VN:149:THR:O	45:VN:152:ILE:N	2.41	0.53
45:WB:166:THR:OG1	45:WB:198:GLU:O	2.23	0.53
45:WB:375:GLN:O	45:WB:379:LYS:HG3	2.09	0.53
45:WD:109:GLY:O	45:WD:113:ILE:HB	2.09	0.53
45:WD:200:MET:HE1	45:WD:266:PHE:HD2	1.74	0.53
45:WD:294:PHE:CE2	45:WD:333:VAL:HG11	2.43	0.53
44:WG:407:TRP:HZ3	45:WH:255:VAL:CA	2.22	0.53
45:WJ:383:GLU:O	45:WJ:386:THR:HG22	2.08	0.53
44:WM:54:SER:O	44:WM:61:HIS:HA	2.09	0.53
44:WM:175:PRO:HG2	44:WM:207:GLU:OE1	2.09	0.53
44:WM:315:CYS:SG	44:WM:379:SER:HB3	2.49	0.53
45:WN:237:THR:HG23	45:WN:241:ARG:NH2	2.18	0.53
45:WN:287:PRO:HG3	45:WN:329:GLN:NE2	2.17	0.53
45:WN:309:ARG:NH2	45:WN:426:GLN:O	2.41	0.53
15:0V:233:ASP:OD1	44:VM:1:MET:HG2	2.09	0.53
20:1J:250:LEU:HD21	44:HI:89:PRO:CB	2.38	0.53
22:1L:305:GLN:OE1	44:BG:279:GLU:HG3	2.09	0.53
23:1M:7:ILE:HD11	44:IC:43:GLY:HA2	1.89	0.53
17:2B:226:GLU:HA	45:JL:53:GLU:OE1	2.09	0.53
6:2E:47:GLU:HG2	35:5R:380:ARG:NH2	2.23	0.53
24:2O:141:LYS:HE2	44:VK:372:MET:CE	2.34	0.53
14:2U:258:ASP:HB2	45:WJ:37:HIS:CD2	2.44	0.53
11:4Q:17:ILE:HG12	45:WJ:125:GLU:OE2	2.07	0.53
35:4R:236:LEU:CD1	44:BE:130:THR:HB	2.38	0.53
37:5D:20:LEU:HD22	45:KN:419:VAL:HB	1.89	0.53
38:5E:124:TYR:CD2	44:OA:281:ALA:HB3	2.44	0.53
39:5I:91:SER:HB2	44:JA:430:LYS:CD	2.39	0.53
35:5R:92:VAL:HG22	44:AI:41:THR:O	2.09	0.53
41:6G:187:ILE:HD11	44:VE:299:ALA:CB	2.38	0.53
41:6G:231:ASN:CG	41:6G:233:ARG:HH2	2.12	0.53
35:6R:288:LYS:NZ	44:CM:45:GLY:CA	2.71	0.53
35:7R:492:ILE:HD11	35:7R:508:ALA:HB2	1.90	0.53
35:7R:555:ASN:HD22	35:7R:576:LEU:HB2	1.73	0.53
44:AA:326:LYS:HD2	45:AD:212:PHE:CE1	2.43	0.53
45:AB:4:ILE:HB	45:AB:132:GLY:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:68:LEU:CD2	45:AB:97:ALA:HB2	2.39	0.53
44:AC:3:GLU:N	44:AC:3:GLU:OE1	2.42	0.53
44:AC:181:VAL:HG11	45:AD:256:ASN:O	2.08	0.53
44:AC:387:VAL:HA	44:AC:390:ARG:HG2	1.91	0.53
45:AD:318:ARG:HH22	45:AD:356:ILE:H	1.56	0.53
45:AF:127:CYS:SG	45:AF:130:LEU:HB2	2.49	0.53
45:AH:256:ASN:C	45:AH:257:LEU:HD12	2.29	0.53
45:AJ:130:LEU:HD11	45:AJ:133:PHE:HE1	1.72	0.53
44:AK:408:TYR:CD2	44:AK:418:PHE:HZ	2.27	0.53
45:AL:130:LEU:HD23	45:AL:162:ARG:HG3	1.91	0.53
44:AM:140:SER:HA	44:AM:171:ILE:HB	1.89	0.53
44:AM:183:GLU:CD	44:AM:184:PRO:HD3	2.29	0.53
44:AM:317:MET:HA	44:AM:317:MET:HE3	1.90	0.53
44:BA:284:GLU:HG3	44:BA:286:LEU:CD2	2.39	0.53
45:BD:139:LEU:HB3	45:BD:185:ALA:HB1	1.90	0.53
44:BE:186:ASN:OD1	44:BE:187:SER:N	2.42	0.53
44:BG:5:ILE:HD12	44:BG:135:PHE:CE1	2.43	0.53
44:BG:54:SER:O	44:BG:62:VAL:HG12	2.09	0.53
44:BG:105:ARG:O	44:BG:110:ILE:HG12	2.09	0.53
45:BH:67:ASP:OD2	45:BH:72:THR:HG21	2.08	0.53
44:BI:222:PRO:HG2	45:BJ:324:LYS:HD3	1.90	0.53
45:BJ:10:GLY:O	45:BJ:14:ASN:ND2	2.41	0.53
45:BJ:60:VAL:HG13	45:BJ:60:VAL:O	2.09	0.53
45:BJ:262:ARG:O	45:BJ:263:LEU:HD12	2.09	0.53
44:CA:182:VAL:HG21	44:CA:185:TYR:CD2	2.44	0.53
44:CA:217:LEU:CB	44:CA:219:ILE:HG13	2.36	0.53
44:CA:239:THR:CB	44:CA:242:LEU:HD21	2.38	0.53
45:CB:2:ARG:HG3	45:CB:240:LEU:HD11	1.91	0.53
45:CB:164:MET:HB2	45:CB:197:ASP:CG	2.28	0.53
45:CB:213:ARG:HD3	45:CB:297:LYS:HD2	1.90	0.53
44:CC:288:VAL:HA	44:CC:291:ILE:CD1	2.39	0.53
45:CD:150:LEU:O	45:CD:153:SER:OG	2.23	0.53
45:CD:207:LEU:CD1	45:CD:225:LEU:HB3	2.27	0.53
45:CD:375:GLN:HG3	45:CD:379:LYS:NZ	2.24	0.53
44:CE:7:ILE:HD12	44:CE:66:VAL:HG11	1.91	0.53
45:CH:247:ASN:OD1	44:CI:11:GLN:NE2	2.42	0.53
45:CL:99:ASN:HA	45:CL:142:GLY:N	2.23	0.53
45:CL:163:ILE:CG2	45:CL:251:ARG:HD3	2.39	0.53
45:CL:338:SER:O	45:CL:339:SER:HB3	2.09	0.53
44:CM:209:ILE:HA	44:CM:212:ILE:HG12	1.90	0.53
45:CN:343:GLU:OE1	45:CN:430:ALA:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:144:GLY:O	44:DA:148:GLY:N	2.40	0.53
44:DA:276:ILE:H	44:DA:368:LEU:CD1	2.21	0.53
45:DB:344:TRP:HB3	45:DB:430:ALA:HB2	1.90	0.53
45:DB:374:ILE:HD12	45:DB:378:PHE:HE2	1.72	0.53
45:DB:423:GLN:HE21	45:DB:424:GLN:HG3	1.74	0.53
45:DD:136:THR:HG22	45:DD:167:PHE:CD1	2.43	0.53
45:DD:190:HIS:CD2	45:DD:411:ALA:HA	2.44	0.53
45:DD:299:MET:HE3	45:DD:305:PRO:HG3	1.90	0.53
45:DD:334:GLN:HG3	45:DD:341:PHE:HD2	1.72	0.53
44:DE:172:TYR:HD2	44:DE:203:MET:HE1	1.72	0.53
44:DI:88:HIS:HB3	44:DI:91:GLN:HG3	1.91	0.53
44:DI:88:HIS:ND1	44:DI:89:PRO:HD2	2.24	0.53
44:DI:270:SER:CB	44:DI:378:ILE:HD13	2.39	0.53
45:DL:150:LEU:HD21	45:DL:154:LYS:HE2	1.91	0.53
45:DL:348:ASN:HA	44:DM:181:VAL:CG1	2.39	0.53
45:DL:418:LEU:O	45:DL:422:TYR:N	2.37	0.53
44:DM:157:LEU:O	44:DM:161:TYR:HD1	1.91	0.53
44:DM:248:LEU:CB	44:DM:355:ILE:HD13	2.38	0.53
44:EA:298:PRO:HG3	44:EA:308:ARG:HH12	1.73	0.53
44:EA:348:PRO:HD3	45:EB:388:MET:HE3	1.90	0.53
45:EB:334:GLN:NE2	45:EB:348:ASN:OD1	2.42	0.53
45:ED:238:CYS:HB2	45:ED:318:ARG:HH21	1.73	0.53
45:ED:272:PRO:CD	45:ED:364:ALA:HA	2.36	0.53
45:ED:376:GLU:O	45:ED:380:ARG:HG2	2.09	0.53
44:EE:261:PRO:HA	45:EF:394:PHE:CE2	2.43	0.53
45:EF:257:LEU:HB3	45:EF:266:PHE:CZ	2.44	0.53
45:EF:345:ILE:HG13	44:EG:398:MET:CE	2.39	0.53
44:EG:98:ASP:OD1	44:EG:99:ALA:N	2.42	0.53
45:EH:291:GLN:NE2	45:EH:292:GLN:HB2	2.24	0.53
44:EI:144:GLY:HA2	44:EI:147:SER:OG	2.09	0.53
44:EI:237:SER:CA	44:EI:320:ARG:HH11	2.16	0.53
45:EJ:247:ASN:O	45:EJ:252:LYS:NZ	2.34	0.53
44:EK:31:GLN:OE1	44:EK:33:ASP:N	2.41	0.53
44:EK:270:SER:CB	44:EK:378:ILE:HD13	2.38	0.53
45:EL:16:ILE:CG2	45:EL:233:MET:HE3	2.37	0.53
45:EL:312:THR:HA	45:EL:348:ASN:CG	2.29	0.53
44:FA:248:LEU:HA	45:FD:11:GLN:NE2	2.05	0.53
44:FA:259:LEU:O	44:FA:268:MET:HE1	2.09	0.53
45:FB:296:ALA:HA	45:FB:305:PRO:CG	2.39	0.53
44:FC:370:LYS:O	44:FC:370:LYS:HG3	2.07	0.53
45:FD:6:HIS:CG	45:FD:21:TRP:HZ2	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:186:THR:HG23	45:FD:187:LEU:N	2.22	0.53
44:FE:202:VAL:HA	44:FE:268:MET:O	2.08	0.53
44:FE:276:ILE:CD1	44:FE:281:ALA:HA	2.39	0.53
45:FF:202:ILE:HD11	45:FF:300:MET:HE2	1.91	0.53
45:FF:258:ILE:HD11	45:FF:266:PHE:CZ	2.44	0.53
45:FF:368:VAL:HG13	45:FF:368:VAL:O	2.09	0.53
45:FF:388:MET:CG	45:FF:393:ALA:HB3	2.39	0.53
44:FG:297:GLU:CG	44:FG:298:PRO:HD2	2.34	0.53
45:FH:211:CYS:HB3	45:FH:217:LEU:HD21	1.91	0.53
44:FI:326:LYS:CG	45:FL:220:PRO:HD2	2.38	0.53
45:FJ:3:GLU:HG3	45:FJ:127:CYS:HB2	1.91	0.53
45:FN:48:ASN:C	45:FN:62:ARG:HH12	2.10	0.53
45:FN:272:PRO:HD3	45:FN:289:LEU:HD23	1.91	0.53
44:GA:140:SER:OG	46:GB:501:GTP:O2A	2.16	0.53
44:GC:176:GLN:OE1	45:GD:331:LEU:HD11	2.09	0.53
44:GC:311:LYS:O	44:GC:382:THR:HG23	2.09	0.53
45:GD:398:TYR:O	45:GD:403:MET:HB2	2.08	0.53
44:GE:66:VAL:HG21	44:GE:122:ILE:HD13	1.90	0.53
44:GE:88:HIS:CG	44:GE:89:PRO:HD2	2.43	0.53
45:GF:155:VAL:HG13	45:GF:156:ARG:CG	2.39	0.53
45:GF:303:ALA:N	45:GF:377:MET:HE1	2.24	0.53
44:GG:229:ARG:HG3	44:GG:229:ARG:NH1	2.24	0.53
44:GG:319:TYR:HD1	44:GG:375:VAL:HG23	1.74	0.53
45:GH:100:ASN:HB3	45:GH:103:LYS:HB3	1.91	0.53
45:GH:231:ALA:O	45:GH:234:SER:OG	2.12	0.53
44:GI:407:TRP:HZ3	45:GJ:255:VAL:CA	2.20	0.53
45:GJ:28:HIS:HA	45:GJ:43:GLN:HG2	1.91	0.53
44:GK:288:VAL:HG21	44:GK:327:ASP:HB3	1.91	0.53
44:GK:296:PHE:CE2	44:GK:335:ILE:HG21	2.44	0.53
45:GL:4:ILE:HD13	45:GL:131:GLN:HB3	1.91	0.53
44:GM:317:MET:CB	44:GM:377:MET:HA	2.39	0.53
44:GM:328:VAL:O	44:GM:332:ILE:HG12	2.09	0.53
44:GM:384:ILE:O	44:GM:387:VAL:HG22	2.08	0.53
45:GN:150:LEU:O	45:GN:153:SER:OG	2.20	0.53
45:GN:248:SER:HA	45:GN:252:LYS:HD2	1.90	0.53
45:GN:258:ILE:HG13	45:GN:266:PHE:CZ	2.39	0.53
45:GN:316:LEU:HB2	45:GN:366:THR:CB	2.28	0.53
44:HA:141:VAL:HG11	44:HA:173:PRO:CD	2.32	0.53
45:HB:22:GLU:HG2	45:HB:81:PHE:CG	2.43	0.53
44:HC:84:ARG:HH12	44:HC:85:GLN:HG2	1.74	0.53
44:HC:181:VAL:HG12	45:HD:256:ASN:CG	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:216:ASN:HB3	44:HC:275:ILE:O	2.09	0.53
44:HE:20:CYS:HB2	44:HE:24:PHE:HE2	1.73	0.53
45:HF:3:GLU:O	45:HF:130:LEU:HD12	2.09	0.53
45:HH:382:ALA:O	45:HH:386:THR:HG23	2.09	0.53
45:HH:405:GLU:OE1	45:HH:405:GLU:N	2.38	0.53
44:HI:276:ILE:CD1	44:HI:281:ALA:HA	2.38	0.53
45:HJ:67:ASP:OD1	45:HJ:68:LEU:N	2.42	0.53
44:HK:172:TYR:HB3	44:HK:173:PRO:HD2	1.90	0.53
44:HM:5:ILE:HD11	44:HM:129:CYS:SG	2.49	0.53
44:HM:99:ALA:CB	44:HM:145:THR:HB	2.39	0.53
44:HM:210:TYR:CD1	45:HN:324:LYS:HD2	2.44	0.53
45:HN:375:GLN:O	45:HN:379:LYS:HG3	2.09	0.53
44:IA:121:ARG:HA	44:IA:121:ARG:HE	1.73	0.53
44:IA:315:CYS:SG	44:IA:379:SER:HB3	2.49	0.53
45:IB:150:LEU:CD2	45:IB:154:LYS:HE2	2.38	0.53
44:IE:244:PHE:HD2	44:IE:358:GLN:CB	2.22	0.53
44:IE:256:GLN:HB2	44:IE:260:VAL:HG21	1.91	0.53
44:IE:258:ASN:OD1	45:IH:179:VAL:HG22	2.09	0.53
44:IG:201:ALA:N	44:IG:266:HIS:O	2.42	0.53
44:IG:229:ARG:HD3	44:IG:363:VAL:HG11	1.90	0.53
45:IH:35:THR:HG23	45:IH:37:HIS:CE1	2.43	0.53
45:IH:101:TRP:CD1	45:IH:105:HIS:HB2	2.44	0.53
44:II:115:VAL:CB	44:II:152:LEU:HD21	2.36	0.53
44:IK:312:TYR:O	44:IK:344:VAL:HG23	2.09	0.53
45:IL:130:LEU:CD2	45:IL:162:ARG:HG3	2.39	0.53
45:IL:204:ASN:OD1	45:IL:205:GLU:N	2.42	0.53
44:IM:56:THR:O	45:JN:283:ALA:HB2	2.08	0.53
45:IN:54:ALA:HB1	44:JK:284:GLU:C	2.29	0.53
45:IN:234:SER:O	45:IN:238:CYS:N	2.41	0.53
45:JB:32:PRO:HA	45:JB:81:PHE:CE2	2.43	0.53
45:JB:47:ILE:HD13	45:JB:59:TYR:CZ	2.44	0.53
45:JB:296:ALA:O	45:JB:299:MET:HE1	2.09	0.53
44:JC:234:VAL:HG23	44:JC:376:CYS:SG	2.49	0.53
44:JC:250:VAL:HG13	44:JC:352:LYS:NZ	2.24	0.53
44:JC:301:MET:HE2	44:JC:307:PRO:CG	2.38	0.53
44:JG:175:PRO:HG2	44:JG:304:LYS:HG3	1.90	0.53
44:JI:109:THR:HG23	44:JI:110:ILE:N	2.24	0.53
44:JI:183:GLU:N	44:JI:184:PRO:HD2	2.24	0.53
44:JI:362:VAL:HG21	44:JI:368:LEU:O	2.09	0.53
45:JJ:377:MET:HG2	45:JJ:380:ARG:NH2	2.17	0.53
45:JL:101:TRP:CE3	45:JL:187:LEU:HD13	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:223:THR:N	44:JM:226:ASN:HD21	2.07	0.53
45:JN:139:LEU:O	45:JN:145:SER:HB3	2.09	0.53
45:JN:317:PHE:HB2	45:JN:352:SER:O	2.09	0.53
44:KA:93:ILE:CG2	44:KA:114:ILE:HD11	2.36	0.53
45:KB:257:LEU:HB3	45:KB:266:PHE:CZ	2.44	0.53
45:KD:19:LYS:O	45:KD:22:GLU:HB3	2.08	0.53
45:KD:165:GLU:OE1	45:KD:198:GLU:HB2	2.08	0.53
45:KD:415:MET:O	45:KD:419:VAL:HG23	2.09	0.53
44:KE:272:TYR:CD1	44:KE:275:ILE:HD11	2.43	0.53
44:KE:407:TRP:CE3	45:KF:255:VAL:HA	2.42	0.53
45:KF:19:LYS:HE3	45:KF:226:ASN:HB2	1.91	0.53
45:KH:46:ARG:HD2	45:KH:46:ARG:N	2.23	0.53
45:KH:161:ASP:C	45:KH:162:ARG:HD3	2.29	0.53
44:KI:181:VAL:CG1	45:KJ:256:ASN:HB3	2.39	0.53
45:KJ:178:THR:HG21	45:KJ:180:VAL:HG12	1.91	0.53
45:KJ:200:MET:SD	45:KJ:368:VAL:HG21	2.49	0.53
44:KK:1:MET:CE	45:KN:94:GLN:HA	2.38	0.53
44:KK:239:THR:HG23	44:KK:243:ARG:HH21	1.72	0.53
45:LB:121:ARG:NH1	45:LB:125:GLU:HG2	2.24	0.53
45:LB:137:HIS:N	45:LB:167:PHE:O	2.33	0.53
45:LB:328:GLU:OE2	45:LB:329:GLN:HG2	2.08	0.53
44:LE:377:MET:C	44:LE:378:ILE:HD12	2.29	0.53
44:LG:200:VAL:HG13	44:LG:268:MET:SD	2.49	0.53
44:LG:271:SER:HB2	44:LG:301:MET:SD	2.48	0.53
45:LJ:285:THR:CB	45:LJ:287:PRO:HD2	2.39	0.53
44:LK:242:LEU:HD11	44:LK:252:ILE:HG12	1.89	0.53
44:LM:12:GLY:O	44:LM:16:VAL:HG23	2.08	0.53
44:LM:69:ASP:OD1	44:LM:70:LEU:N	2.41	0.53
45:LN:186:THR:HG21	45:LN:385:PHE:CD1	2.43	0.53
44:MA:101:ASN:HA	44:MA:144:GLY:HA3	1.89	0.53
44:MA:145:THR:N	46:MA:501:GTP:O2G	2.35	0.53
45:MB:51:TYR:CE1	45:MB:61:PRO:HG3	2.43	0.53
45:MB:268:ILE:CG2	45:MB:368:VAL:HG22	2.39	0.53
44:MC:237:SER:HA	44:MC:320:ARG:NH1	2.23	0.53
45:MD:217:LEU:HD23	45:MD:219:THR:N	2.24	0.53
44:ME:88:HIS:ND1	44:ME:89:PRO:HD2	2.24	0.53
44:ME:172:TYR:HB2	44:ME:203:MET:CE	2.39	0.53
44:ME:259:LEU:HD21	44:ME:316:SER:CB	2.39	0.53
45:MF:3:GLU:CB	45:MF:49:VAL:HA	2.39	0.53
44:MG:119:LEU:HD13	44:MG:122:ILE:HD12	1.90	0.53
44:MG:217:LEU:O	44:MG:218:ASP:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:318:ARG:HG3	45:MH:357:PRO:HA	1.90	0.53
45:MJ:65:LEU:HD21	45:MJ:85:PHE:CE2	2.44	0.53
44:MK:7:ILE:HD12	44:MK:122:ILE:HD11	1.91	0.53
44:MK:172:TYR:HB3	44:MK:173:PRO:HD2	1.90	0.53
45:ML:174:LYS:CE	45:ML:175:VAL:HG22	2.38	0.53
44:MM:182:VAL:O	44:MM:182:VAL:HG22	2.09	0.53
44:MM:210:TYR:CE1	44:MM:227:LEU:HD11	2.44	0.53
44:NA:54:SER:HB3	44:NA:64:ARG:NH1	2.24	0.53
45:NB:172:SER:HB3	45:NB:173:PRO:CD	2.33	0.53
44:NC:91:GLN:HB3	44:NC:121:ARG:NH1	2.23	0.53
44:NC:174:SER:CB	44:NC:207:GLU:HG3	2.33	0.53
44:NC:200:VAL:HG13	44:NC:256:GLN:CB	2.38	0.53
44:NC:262:TYR:OH	45:NF:391:ARG:O	2.21	0.53
45:ND:117:LEU:HD13	45:ND:154:LYS:HZ1	1.74	0.53
45:ND:303:ALA:HB1	45:ND:373:ALA:O	2.08	0.53
44:NE:311:LYS:HE2	44:NE:342:GLN:HG2	1.91	0.53
44:NE:325:PRO:O	44:NE:328:VAL:HB	2.08	0.53
45:NF:4:ILE:HG23	45:NF:132:GLY:O	2.09	0.53
45:NF:36:TYR:O	45:NF:37:HIS:ND1	2.42	0.53
44:NG:151:SER:HB2	44:NG:193:SER:HB2	1.90	0.53
44:NG:203:MET:HG3	44:NG:384:ILE:CD1	2.36	0.53
45:NH:52:ASN:HB2	45:NH:60:VAL:HG11	1.91	0.53
44:NI:19:ALA:O	44:NI:22:GLU:HG2	2.09	0.53
44:NI:189:LEU:HD23	44:NI:421:ALA:CB	2.38	0.53
45:NJ:263:LEU:HG	45:NJ:422:TYR:CE2	2.44	0.53
45:NJ:271:ALA:HB3	45:NJ:293:MET:SD	2.49	0.53
44:NK:52:PHE:HZ	44:NK:239:THR:HG21	1.71	0.53
44:NM:191:THR:O	44:NM:195:LEU:N	2.42	0.53
45:NN:286:VAL:N	45:NN:287:PRO:HD2	2.24	0.53
45:NN:311:LEU:O	45:NN:345:ILE:HG21	2.09	0.53
44:OA:252:ILE:HG13	44:OA:253:THR:N	2.24	0.53
45:OB:32:PRO:HG3	45:OB:81:PHE:CZ	2.43	0.53
45:OB:61:PRO:CD	45:OB:84:LEU:HB3	2.38	0.53
45:OB:289:LEU:HD13	45:OB:365:VAL:HG13	1.90	0.53
45:OD:81:PHE:O	45:OD:84:LEU:HD13	2.08	0.53
44:OE:89:PRO:HG3	44:PE:280:LYS:HG3	1.91	0.53
44:OE:181:VAL:HG12	45:OF:256:ASN:ND2	2.24	0.53
44:OE:184:PRO:O	44:OE:188:ILE:HG12	2.08	0.53
44:OE:242:LEU:CD2	44:OE:252:ILE:HG23	2.39	0.53
44:OE:362:VAL:HG21	44:OE:368:LEU:O	2.08	0.53
45:OH:143:THR:O	45:OH:147:MET:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:173:PRO:CD	45:OH:380:ARG:HD2	2.39	0.53
45:OH:217:LEU:HD11	45:OH:220:PRO:HA	1.90	0.53
45:OH:345:ILE:HG13	45:OH:345:ILE:O	2.09	0.53
44:OI:137:VAL:HG22	44:OI:167:LEU:O	2.09	0.53
45:OJ:3:GLU:OE2	45:OJ:130:LEU:HA	2.09	0.53
45:OJ:31:ASP:HB3	45:OJ:32:PRO:HD2	1.90	0.53
45:OJ:87:PRO:HD2	45:PJ:281:TYR:HD2	1.74	0.53
45:OL:264:HIS:O	45:OL:265:PHE:HD2	1.91	0.53
44:OM:372:MET:SD	44:OM:372:MET:N	2.81	0.53
45:ON:165:GLU:OE1	45:ON:198:GLU:HB2	2.08	0.53
45:ON:272:PRO:HD3	45:ON:364:ALA:HA	1.90	0.53
45:ON:284:LEU:HG	45:ON:363:MET:HB2	1.90	0.53
45:ON:322:SER:OG	45:ON:325:GLU:HG2	2.09	0.53
44:PC:407:TRP:O	44:PC:411:GLU:HG2	2.09	0.53
45:PD:116:VAL:HA	45:PD:119:VAL:HG12	1.89	0.53
45:PD:323:THR:O	45:PD:327:ASP:N	2.35	0.53
45:PF:19:LYS:CE	45:PF:226:ASN:HB3	2.38	0.53
44:PG:276:ILE:HD11	44:PG:280:LYS:HG3	1.91	0.53
45:PH:240:LEU:HD13	45:PH:250:LEU:HD23	1.89	0.53
45:PJ:308:GLY:HA3	45:PJ:372:THR:OG1	2.09	0.53
45:PJ:321:MET:HE2	45:PJ:326:VAL:HG22	1.90	0.53
45:PL:7:ILE:CD1	45:PL:151:LEU:HD22	2.39	0.53
45:PL:35:THR:HB	45:PL:37:HIS:HE1	1.73	0.53
45:PL:49:VAL:HG21	45:PL:241:ARG:HB3	1.90	0.53
44:PM:256:GLN:NE2	44:PM:257:THR:HG23	2.23	0.53
45:PN:54:ALA:HB1	45:QL:281:TYR:O	2.08	0.53
45:PN:132:GLY:HA3	45:PN:163:ILE:HG13	1.91	0.53
45:PN:381:VAL:HA	45:PN:384:GLN:CG	2.38	0.53
44:QA:14:ILE:O	44:QA:18:ASN:N	2.35	0.53
45:QB:55:THR:HG21	45:RB:284:LEU:HG	1.90	0.53
45:QB:322:SER:HB3	44:QC:221:ARG:CZ	2.39	0.53
44:QC:188:ILE:HG21	44:QC:422:ARG:NH1	2.23	0.53
45:QD:58:ARG:HG3	45:RD:281:TYR:CD1	2.43	0.53
45:QD:256:ASN:O	44:QE:181:VAL:HG21	2.09	0.53
45:QD:328:GLU:HA	45:QD:331:LEU:HB3	1.89	0.53
45:QF:86:ARG:HE	45:QF:87:PRO:HD2	1.72	0.53
45:QF:162:ARG:NE	45:QF:162:ARG:HA	2.24	0.53
44:QG:62:VAL:HG21	44:RG:283:HIS:HB3	1.90	0.53
44:QG:320:ARG:CZ	44:QG:360:PRO:HB3	2.39	0.53
44:QG:394:LYS:HA	44:QG:397:LEU:HD12	1.91	0.53
45:QH:143:THR:HG23	45:QH:144:GLY:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:9:VAL:HG22	44:QI:145:THR:CG2	2.39	0.53
44:QI:14:ILE:HD11	44:QI:69:ASP:HB2	1.90	0.53
44:QI:259:LEU:HD21	44:QI:316:SER:CB	2.38	0.53
45:QJ:114:ASP:OD1	45:QJ:115:SER:N	2.41	0.53
44:QK:256:GLN:O	45:QL:397:TRP:NE1	2.41	0.53
44:QK:276:ILE:CD1	44:QK:281:ALA:HA	2.38	0.53
45:QL:267:MET:CE	45:QL:371:SER:HB3	2.39	0.53
44:QM:68:LEU:CD2	44:QM:153:LEU:HD11	2.39	0.53
45:QN:50:TYR:O	45:QN:61:PRO:HA	2.08	0.53
45:QN:156:ARG:NH1	45:QN:162:ARG:O	2.41	0.53
44:RA:103:PHE:HB2	44:RA:186:ASN:CB	2.39	0.53
44:RC:6:SER:OG	44:RC:65:ALA:HA	2.09	0.53
44:RC:22:GLU:HA	44:RC:25:CYS:HB2	1.91	0.53
45:RD:103:LYS:HA	45:RD:107:THR:OG1	2.09	0.53
44:RE:13:GLY:O	44:RE:16:VAL:HG12	2.09	0.53
44:RE:105:ARG:NH2	44:RE:110:ILE:HG21	2.23	0.53
45:RF:284:LEU:HD13	45:RF:362:LYS:HE2	1.90	0.53
45:RH:255:VAL:HG11	44:RI:101:ASN:CB	2.38	0.53
44:RI:141:VAL:HG21	44:RI:190:SER:OG	2.08	0.53
45:RL:272:PRO:HG3	45:RL:284:LEU:CD2	2.39	0.53
45:RN:207:LEU:HB3	45:RN:225:LEU:HD22	1.91	0.53
45:RN:407:GLU:O	45:RN:410:GLU:HB2	2.08	0.53
45:SB:58:ARG:HD3	45:TB:281:TYR:CD2	2.44	0.53
44:SC:11:GLN:HB2	46:SC:501:GTP:O3A	2.07	0.53
45:SD:22:GLU:HG2	45:SD:81:PHE:CD1	2.43	0.53
45:SD:387:ALA:O	45:SD:390:ARG:HG2	2.08	0.53
44:SE:155:GLU:HG2	44:SE:197:HIS:CD2	2.43	0.53
44:SE:350:GLY:C	45:SF:179:VAL:HG12	2.28	0.53
45:SF:210:ILE:HG12	45:SF:213:ARG:HH21	1.72	0.53
45:SF:316:LEU:HB2	45:SF:366:THR:O	2.09	0.53
45:SF:324:LYS:HG3	44:SG:210:TYR:CG	2.43	0.53
45:SF:407:GLU:HA	45:SF:410:GLU:HG2	1.91	0.53
44:SG:169:PHE:HD1	44:SG:202:VAL:HB	1.74	0.53
44:SI:30:ILE:HG13	44:SI:30:ILE:O	2.08	0.53
44:SI:168:GLY:O	44:SI:201:ALA:HA	2.09	0.53
44:SI:326:LYS:HD3	45:SJ:212:PHE:HZ	1.73	0.53
44:SK:405:VAL:HG13	44:SK:418:PHE:HE2	1.74	0.53
45:SL:3:GLU:CG	45:SL:127:CYS:HB2	2.38	0.53
44:SM:211:ASP:HB3	44:SM:215:ARG:HH12	1.72	0.53
44:SM:316:SER:CB	44:SM:352:LYS:HE3	2.38	0.53
44:SM:332:ILE:HA	44:SM:335:ILE:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:83:GLN:OE1	45:SN:83:GLN:HA	2.08	0.53
45:SN:101:TRP:HB2	45:SN:184:ASN:CB	2.38	0.53
45:SN:285:THR:O	45:SN:289:LEU:HG	2.09	0.53
45:SN:295:ASP:HB3	45:SN:298:ASN:HB2	1.91	0.53
44:TA:304:LYS:HE3	44:TA:390:ARG:HD2	1.89	0.53
45:TB:31:ASP:OD2	45:TB:37:HIS:ND1	2.41	0.53
45:TB:175:VAL:O	45:TB:175:VAL:HG23	2.09	0.53
45:TB:404:ASP:OD1	45:TB:407:GLU:HG3	2.09	0.53
44:TC:137:VAL:HG12	44:TC:167:LEU:O	2.08	0.53
44:TC:214:ARG:O	44:TC:218:ASP:HA	2.08	0.53
44:TC:258:ASN:HA	45:TD:179:VAL:CG2	2.38	0.53
44:TC:423:GLU:OE1	44:TC:423:GLU:N	2.39	0.53
45:TD:203:ASP:O	45:TD:207:LEU:HG	2.09	0.53
45:TD:319:GLY:HA2	45:TD:355:ASP:O	2.09	0.53
45:TF:168:SER:OG	45:TF:192:LEU:HD21	2.08	0.53
45:TH:251:ARG:O	45:TH:255:VAL:HG23	2.09	0.53
44:TI:104:ALA:CB	44:TI:411:GLU:HB2	2.39	0.53
44:TI:261:PRO:HA	45:TJ:394:PHE:CD1	2.43	0.53
45:TJ:6:HIS:O	45:TJ:64:ILE:HB	2.08	0.53
45:TJ:36:TYR:CD2	45:TJ:44:LEU:HD11	2.43	0.53
44:TK:217:LEU:CA	44:TK:277:SER:HB2	2.37	0.53
44:TM:324:VAL:CG1	44:TM:325:PRO:HD2	2.39	0.53
45:TN:318:ARG:NH2	45:TN:358:PRO:HA	2.24	0.53
44:UA:66:VAL:HG23	44:UA:91:GLN:O	2.09	0.53
44:UA:104:ALA:HB2	44:UA:413:MET:HE2	1.89	0.53
44:UA:317:MET:SD	44:UA:377:MET:HB3	2.49	0.53
45:UB:22:GLU:HG2	45:UB:81:PHE:CD1	2.43	0.53
44:UC:212:ILE:HD12	44:UC:275:ILE:CD1	2.38	0.53
44:UC:313:MET:CE	44:UC:344:VAL:HB	2.39	0.53
44:UC:320:ARG:HB2	44:UC:359:PRO:CA	2.34	0.53
45:UD:165:GLU:HG2	45:UD:198:GLU:OE1	2.08	0.53
45:UD:258:ILE:HG13	45:UD:266:PHE:HZ	1.73	0.53
44:UE:241:SER:HB3	44:UE:250:VAL:HG12	1.91	0.53
44:UE:270:SER:O	44:UE:302:MET:N	2.28	0.53
44:UE:270:SER:HB2	44:UE:378:ILE:HD13	1.91	0.53
45:UF:271:ALA:HB2	45:UF:292:GLN:OE1	2.09	0.53
44:UG:217:LEU:HG	44:UG:275:ILE:HG22	1.91	0.53
45:UH:202:ILE:HG22	45:UH:207:LEU:HD11	1.90	0.53
45:UH:256:ASN:HB2	45:UH:350:LYS:HD2	1.91	0.53
44:UI:125:LEU:O	44:UI:129:CYS:N	2.34	0.53
45:UJ:377:MET:SD	45:UJ:380:ARG:HD2	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:415:MET:O	45:UJ:419:VAL:HG23	2.07	0.53
45:UL:4:ILE:HG22	45:UL:131:GLN:HB3	1.91	0.53
45:UL:302:ALA:CB	45:UL:377:MET:HE1	2.31	0.53
45:UL:346:PRO:HB2	44:UM:394:LYS:NZ	2.23	0.53
44:UM:141:VAL:HG22	44:UM:187:SER:CA	2.37	0.53
44:UM:388:PHE:O	44:UM:392:ASP:N	2.31	0.53
45:UN:11:GLN:O	45:UN:15:GLN:HG2	2.09	0.53
45:UN:102:ALA:HA	45:UN:106:TYR:HD2	1.74	0.53
45:UN:375:GLN:OE1	45:UN:423:GLN:HB3	2.09	0.53
44:VA:237:SER:HB3	44:VA:318:MET:CE	2.39	0.53
45:VB:30:ILE:HG13	45:VB:51:TYR:CD2	2.44	0.53
44:VC:432:TYR:HA	44:VC:435:VAL:HG22	1.89	0.53
45:VD:352:SER:O	45:VD:353:ILE:HD13	2.08	0.53
44:VE:312:TYR:CD1	44:VE:381:SER:HB3	2.43	0.53
44:VE:409:VAL:HA	44:VE:413:MET:O	2.08	0.53
45:VF:217:LEU:O	45:VF:217:LEU:HD12	2.08	0.53
44:VG:1:MET:HE1	45:VJ:94:GLN:HG2	1.91	0.53
44:VI:93:ILE:HD12	44:VI:93:ILE:H	1.73	0.53
44:VI:141:VAL:HG11	44:VI:172:TYR:HA	1.90	0.53
45:VJ:350:LYS:NZ	45:VJ:351:SER:O	2.36	0.53
45:VL:4:ILE:HG13	45:VL:5:VAL:H	1.74	0.53
44:VM:100:ALA:HA	45:VN:252:LYS:HE3	1.91	0.53
44:WA:221:ARG:CA	45:WB:324:LYS:HE2	2.22	0.53
45:WB:200:MET:SD	45:WB:268:ILE:HD13	2.49	0.53
45:WB:221:THR:CG2	45:WB:224:ASP:H	2.22	0.53
45:WB:245:GLN:HB3	45:WB:353:ILE:HB	1.90	0.53
45:WB:293:MET:SD	45:WB:365:VAL:HG11	2.48	0.53
45:WB:375:GLN:HB2	45:WB:419:VAL:HG13	1.91	0.53
44:WC:121:ARG:C	44:WC:125:LEU:HD23	2.29	0.53
44:WC:213:CYS:HA	44:WC:217:LEU:HB2	1.90	0.53
44:WC:275:ILE:HG23	44:WC:368:LEU:CD1	2.38	0.53
45:WD:303:ALA:HB1	45:WD:373:ALA:HB1	1.90	0.53
45:WH:263:LEU:HD23	45:WH:422:TYR:CE1	2.43	0.53
44:WI:186:ASN:OD1	44:WI:187:SER:N	2.42	0.53
45:WJ:8:GLN:CD	45:WJ:17:GLY:HA3	2.28	0.53
45:WJ:177:ASP:N	45:WJ:181:GLU:OE2	2.27	0.53
45:WJ:207:LEU:O	45:WJ:211:CYS:N	2.36	0.53
44:WK:103:PHE:HB2	44:WK:186:ASN:HB2	1.91	0.53
44:WM:53:PHE:HA	44:WM:63:PRO:HA	1.90	0.53
44:WM:285:GLN:CG	44:WM:286:LEU:CA	2.87	0.53
44:WM:377:MET:CE	44:WM:379:SER:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:156:ARG:CD	45:WN:164:MET:HG3	2.38	0.53
45:WN:170:VAL:HG23	45:WN:203:ASP:OD1	2.07	0.53
3:0B:288:ILE:HG23	45:KL:279:GLN:HG3	1.91	0.53
22:1L:308:ARG:NH1	44:BG:367:ASP:OD1	2.41	0.53
22:1L:490:TYR:CE2	45:BH:80:PRO:HG3	2.44	0.53
13:1T:140:GLN:HA	44:MC:163:LYS:NZ	2.24	0.53
6:2E:118:ARG:HH21	35:5R:534:HIS:CD2	2.25	0.53
22:2L:892:ARG:NH2	44:CK:277:SER:HB2	2.23	0.53
16:2X:1:MET:HG2	44:MI:244:PHE:O	2.08	0.53
31:3H:193:LEU:CD1	45:AH:362:LYS:HA	2.38	0.53
26:3R:93:VAL:HG21	44:AK:282:TYR:HE1	1.73	0.53
37:5A:108:ARG:HH21	44:KA:393:HIS:HB2	1.74	0.53
37:5D:54:ARG:NH1	44:KK:439:THR:O	2.41	0.53
38:5F:58:MET:O	45:OF:360:GLY:HA3	2.09	0.53
38:5F:212:THR:HB	38:5F:214:LEU:CD1	2.38	0.53
38:5G:116:TYR:O	38:5G:118:PRO:HD3	2.09	0.53
38:5G:198:PHE:CB	44:LK:393:HIS:HE1	2.21	0.53
38:5H:123:ARG:HB3	44:OM:372:MET:SD	2.48	0.53
39:5I:91:SER:HB2	44:JA:430:LYS:HE2	1.91	0.53
39:5I:112:PRO:HB3	45:ND:309:ARG:HH22	1.74	0.53
11:5Q:95:ASP:HB2	11:5Q:99:VAL:CG2	2.37	0.53
35:5R:601:ASP:HB3	35:5R:604:SER:OG	2.09	0.53
41:6G:92:LEU:HG	44:UK:96:LYS:HZ2	1.73	0.53
41:6G:185:TYR:CE2	44:UG:116:ASP:HA	2.44	0.53
35:7R:465:ILE:HA	45:FB:277:GLY:HA3	1.90	0.53
45:AB:32:PRO:HG3	45:AB:81:PHE:CE2	2.43	0.53
45:AB:378:PHE:HB3	45:AB:419:VAL:HG22	1.90	0.53
45:AB:378:PHE:HB3	45:AB:419:VAL:CG2	2.39	0.53
45:AD:23:VAL:HG21	45:AD:230:SER:CB	2.39	0.53
45:AD:318:ARG:HH22	45:AD:356:ILE:N	2.06	0.53
44:AE:156:ARG:HG3	44:AE:160:ASP:OD2	2.09	0.53
44:AE:165:SER:HA	44:AE:199:ASP:OD2	2.08	0.53
44:AE:177:VAL:CG2	45:AF:331:LEU:HD22	2.38	0.53
44:AE:258:ASN:O	44:AE:259:LEU:HD12	2.09	0.53
45:AF:16:ILE:HG21	45:AF:136:THR:CG2	2.39	0.53
44:AG:24:PHE:HZ	44:AG:235:ILE:HG22	1.74	0.53
45:AH:267:MET:HE3	45:AH:299:MET:HB3	1.90	0.53
45:AJ:315:ALA:C	45:AJ:316:LEU:HD12	2.29	0.53
45:AL:73:MET:HA	45:AL:76:VAL:CG1	2.38	0.53
44:AM:287:SER:O	44:AM:291:ILE:HG23	2.09	0.53
44:AM:425:LEU:HD12	44:AM:426:ALA:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:387:ALA:O	45:AN:390:ARG:HG3	2.06	0.53
44:BA:11:GLN:OE1	45:BB:245:GLN:O	2.27	0.53
44:BA:335:ILE:HG21	44:BA:351:PHE:CZ	2.44	0.53
45:BH:20:PHE:CE2	45:BH:24:ILE:HG13	2.44	0.53
45:BH:309:ARG:N	45:BH:372:THR:OG1	2.41	0.53
45:BJ:19:LYS:HB2	45:BJ:226:ASN:HB3	1.91	0.53
45:BL:20:PHE:CE1	45:BL:233:MET:HB3	2.43	0.53
45:BL:25:SER:HB2	45:BL:81:PHE:HE2	1.73	0.53
44:BM:224:TYR:CD1	44:BM:227:LEU:HD12	2.40	0.53
44:CA:317:MET:HB2	44:CA:353:VAL:HA	1.90	0.53
45:CB:66:MET:O	45:CB:73:MET:CE	2.56	0.53
45:CD:61:PRO:HD2	45:CD:84:LEU:O	2.09	0.53
44:CE:23:LEU:CD2	44:CE:233:GLN:HA	2.39	0.53
44:CE:184:PRO:O	44:CE:188:ILE:HD12	2.09	0.53
44:CG:1:MET:HE2	45:CH:94:GLN:HB3	1.90	0.53
44:CG:70:LEU:HD11	44:CG:149:LEU:HD21	1.90	0.53
44:CG:261:PRO:HA	45:CH:394:PHE:CD2	2.44	0.53
44:CG:417:GLU:O	44:CG:420:GLU:HG2	2.08	0.53
45:CH:6:HIS:NE2	45:CH:8:GLN:HB3	2.24	0.53
45:CH:77:ARG:HG2	45:CH:77:ARG:NH1	2.19	0.53
45:CJ:143:THR:HG22	48:CJ:501:GDP:O2B	2.09	0.53
45:CJ:222:TYR:CD1	45:CJ:225:LEU:HD12	2.44	0.53
45:CL:212:PHE:HB2	45:CL:213:ARG:NH1	2.23	0.53
45:CN:127:CYS:SG	45:CN:130:LEU:HB2	2.48	0.53
45:CN:212:PHE:CZ	45:CN:220:PRO:HG2	2.43	0.53
44:DE:291:ILE:HG13	44:DE:292:THR:N	2.24	0.53
45:DF:30:ILE:HG13	45:DF:30:ILE:O	2.08	0.53
45:DF:135:ILE:N	45:DF:165:GLU:O	2.40	0.53
45:DF:169:VAL:HG12	45:DF:202:ILE:HB	1.91	0.53
45:DF:190:HIS:O	45:DF:193:VAL:HG12	2.08	0.53
45:DF:238:CYS:HB2	45:DF:318:ARG:CZ	2.38	0.53
44:DG:106:GLY:HA2	44:DG:110:ILE:CG1	2.39	0.53
44:DG:138:PHE:HD1	44:DG:169:PHE:HB2	1.72	0.53
44:DG:238:LEU:HD21	44:DG:255:PHE:CE2	2.44	0.53
45:DH:11:GLN:HB2	48:DH:501:GDP:O3B	2.08	0.53
45:DH:296:ALA:O	45:DH:299:MET:HE2	2.09	0.53
44:DI:28:HIS:HD2	44:DI:49:PHE:HB3	1.74	0.53
44:DI:267:PHE:CD2	44:DI:388:PHE:HZ	2.26	0.53
44:DI:276:ILE:CD1	44:DI:281:ALA:HA	2.38	0.53
45:DJ:296:ALA:HA	45:DJ:299:MET:CE	2.32	0.53
45:DL:21:TRP:HZ3	45:DL:50:TYR:HB3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:247:ASN:HD22	44:DM:73:THR:HB	1.73	0.53
45:DN:211:CYS:O	45:DN:215:LEU:HB2	2.09	0.53
44:EA:20:CYS:O	44:EA:24:PHE:N	2.32	0.53
44:EA:312:TYR:HA	44:EA:381:SER:HB2	1.90	0.53
45:EB:130:LEU:HG	45:EB:162:ARG:CD	2.38	0.53
45:ED:392:LYS:CG	45:ED:395:LEU:HD22	2.39	0.53
44:EE:7:ILE:HG12	44:EE:136:LEU:O	2.09	0.53
44:EE:219:ILE:HG21	44:EE:222:PRO:HB3	1.90	0.53
45:EF:2:ARG:NH2	45:EF:240:LEU:HG	2.23	0.53
45:EH:204:ASN:O	45:EH:207:LEU:HB2	2.08	0.53
44:EI:107:HIS:O	44:EI:107:HIS:ND1	2.42	0.53
45:EJ:21:TRP:CH2	45:EJ:61:PRO:HB3	2.44	0.53
45:EJ:143:THR:HG23	45:EJ:144:GLY:N	2.23	0.53
45:EL:256:ASN:ND2	44:EM:180:ALA:HB1	2.24	0.53
45:EN:415:MET:O	45:EN:419:VAL:HG23	2.09	0.53
44:FA:192:HIS:ND1	44:FA:424:ASP:OD2	2.36	0.53
45:FB:66:MET:HA	45:FB:91:VAL:CG2	2.38	0.53
45:FB:257:LEU:HD11	45:FB:314:SER:HB2	1.91	0.53
45:FB:283:ALA:O	45:FB:288:GLU:HG3	2.09	0.53
44:FC:183:GLU:HG2	44:FC:184:PRO:CD	2.38	0.53
44:FC:188:ILE:HG13	44:FC:395:PHE:CG	2.44	0.53
44:FE:11:GLN:HE22	45:FF:246:LEU:HA	1.73	0.53
45:FF:245:GLN:HB2	45:FF:353:ILE:HB	1.90	0.53
44:FG:189:LEU:HD21	44:FG:418:PHE:CE1	2.43	0.53
44:FI:221:ARG:NH2	45:FJ:323:THR:H	2.06	0.53
45:FJ:269:GLY:HA2	45:FJ:300:MET:SD	2.49	0.53
44:FK:233:GLN:HG2	44:FK:272:TYR:CE2	2.43	0.53
45:FL:146:GLY:O	45:FL:149:THR:OG1	2.22	0.53
45:FL:247:ASN:HD22	45:FL:247:ASN:C	2.04	0.53
44:FM:296:PHE:HD2	44:FM:335:ILE:HD12	1.73	0.53
45:FN:166:THR:OG1	45:FN:198:GLU:O	2.17	0.53
45:FN:318:ARG:HB3	45:FN:357:PRO:HA	1.90	0.53
44:GA:102:ASN:HB3	44:GA:105:ARG:HG3	1.90	0.53
45:GB:34:GLY:O	45:GB:58:ARG:HA	2.09	0.53
45:GB:87:PRO:HA	45:GB:90:PHE:CD2	2.44	0.53
44:GE:62:VAL:HG13	44:GE:62:VAL:O	2.09	0.53
44:GE:210:TYR:CG	45:GF:324:LYS:HD2	2.44	0.53
44:GE:269:LEU:HD23	44:GE:384:ILE:CD1	2.33	0.53
44:GE:289:ALA:O	44:GE:292:THR:HG22	2.09	0.53
45:GF:317:PHE:HA	45:GF:365:VAL:HG22	1.90	0.53
44:GG:88:HIS:HB3	44:GG:91:GLN:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:86:ARG:HH2	45:HH:278:SER:HA	1.72	0.53
44:GI:31:GLN:HB3	44:GI:32:PRO:HD2	1.89	0.53
44:GI:252:ILE:HA	44:GI:255:PHE:HD2	1.73	0.53
44:GK:298:PRO:HA	44:GK:307:PRO:HG3	1.90	0.53
44:GK:358:GLN:HG3	44:GK:359:PRO:HD2	1.91	0.53
44:GK:389:SER:O	44:GK:392:ASP:N	2.41	0.53
44:GM:30:ILE:HG23	44:GM:36:MET:CE	2.38	0.53
44:GM:195:LEU:C	44:GM:266:HIS:HE2	2.11	0.53
44:GM:203:MET:O	44:GM:302:MET:HE1	2.09	0.53
45:HB:102:ALA:HB2	45:HB:398:TYR:CD1	2.43	0.53
45:HB:180:VAL:CG2	45:HB:183:TYR:HB2	2.38	0.53
45:HB:284:LEU:H	45:HB:362:LYS:HZ1	1.57	0.53
44:HC:109:THR:HG23	44:HC:110:ILE:N	2.23	0.53
44:HC:203:MET:HE2	44:HC:203:MET:CA	2.38	0.53
45:HF:97:ALA:O	45:HF:103:LYS:HD2	2.09	0.53
44:HG:390:ARG:HG3	44:HG:391:LEU:HD22	1.90	0.53
44:HI:203:MET:HG3	44:HI:384:ILE:CD1	2.37	0.53
44:HI:316:SER:CB	44:HI:352:LYS:HB3	2.38	0.53
44:HI:371:VAL:HG23	44:HI:373:ARG:O	2.08	0.53
45:HJ:256:ASN:OD1	45:HJ:350:LYS:HD2	2.09	0.53
44:HK:88:HIS:HB3	44:HK:91:GLN:CD	2.29	0.53
44:HK:346:TRP:CE3	44:HK:347:CYS:HB2	2.44	0.53
45:HN:169:VAL:HG22	45:HN:202:ILE:HB	1.91	0.53
45:HN:325:GLU:O	45:HN:328:GLU:HG2	2.09	0.53
45:IB:68:LEU:HD23	45:IB:97:ALA:N	2.24	0.53
45:IB:257:LEU:HD13	45:IB:266:PHE:CZ	2.44	0.53
44:IE:56:THR:HG23	44:IE:58:ALA:H	1.73	0.53
44:II:25:CYS:HA	44:II:30:ILE:HG22	1.90	0.53
44:II:119:LEU:HA	44:II:122:ILE:HG22	1.90	0.53
44:II:428:LEU:HD21	44:II:432:TYR:CE2	2.43	0.53
45:IJ:62:ARG:HG3	45:IJ:62:ARG:O	2.08	0.53
45:IJ:215:LEU:CB	45:IJ:217:LEU:HD23	2.38	0.53
44:IM:60:LYS:HZ3	45:JN:281:TYR:HE1	1.51	0.53
44:IM:195:LEU:HD11	44:IM:428:LEU:HD13	1.90	0.53
44:IM:269:LEU:HD12	44:IM:303:ALA:CB	2.37	0.53
45:IN:66:MET:HB3	45:IN:147:MET:CE	2.39	0.53
45:JB:3:GLU:O	45:JB:130:LEU:HD12	2.08	0.53
45:JB:407:GLU:HA	45:JB:410:GLU:HB2	1.89	0.53
45:JF:2:ARG:HA	45:JF:129:CYS:O	2.09	0.53
44:JG:3:GLU:HG3	44:JG:50:ASN:O	2.08	0.53
44:JG:257:THR:CA	45:JJ:397:TRP:HZ3	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:164:MET:CE	45:JH:196:ALA:HA	2.39	0.53
45:JH:177:ASP:HB2	45:JH:181:GLU:OE2	2.09	0.53
44:JI:326:LYS:CD	45:JL:220:PRO:HG2	2.39	0.53
45:JL:200:MET:HG2	45:JL:266:PHE:HB2	1.90	0.53
44:JM:430:LYS:O	44:JM:433:GLU:N	2.41	0.53
45:JN:186:THR:HG21	45:JN:385:PHE:HD2	1.70	0.53
44:KC:239:THR:O	44:KC:239:THR:HG22	2.08	0.53
45:KD:231:ALA:O	45:KD:234:SER:OG	2.22	0.53
44:KE:88:HIS:HB3	44:KE:91:GLN:HB2	1.91	0.53
45:KF:314:SER:CB	45:KF:350:LYS:HB3	2.39	0.53
45:KH:51:TYR:HB3	45:KH:59:TYR:CB	2.35	0.53
44:KI:105:ARG:O	44:KI:110:ILE:HG22	2.09	0.53
44:KI:202:VAL:HA	44:KI:268:MET:O	2.08	0.53
44:KI:261:PRO:HG3	45:KL:394:PHE:CZ	2.44	0.53
44:KI:328:VAL:O	44:KI:332:ILE:HD12	2.09	0.53
44:KK:28:HIS:HE1	44:KK:243:ARG:HH11	1.56	0.53
45:KL:309:ARG:HH22	45:KL:343:GLU:H	1.55	0.53
44:KM:104:ALA:HB2	44:KM:413:MET:CE	2.39	0.53
44:KM:166:LYS:HD2	44:KM:198:THR:HA	1.91	0.53
44:KM:217:LEU:HB3	44:KM:219:ILE:HD11	1.90	0.53
45:KN:141:GLY:HA2	48:KN:501:GDP:O1A	2.09	0.53
45:KN:166:THR:HG23	45:KN:199:CYS:HA	1.90	0.53
44:LA:1:MET:HG3	44:LA:2:ARG:HH11	1.74	0.53
44:LC:389:SER:HA	44:LC:429:GLU:OE2	2.08	0.53
45:LD:190:HIS:O	45:LD:193:VAL:HG12	2.08	0.53
45:LF:252:LYS:HD3	45:LF:350:LYS:NZ	2.23	0.53
45:LJ:240:LEU:HD23	45:LJ:240:LEU:O	2.08	0.53
45:LL:68:LEU:HD22	45:LL:143:THR:OG1	2.08	0.53
44:LM:73:THR:HB	45:LN:247:ASN:OD1	2.09	0.53
44:LM:271:SER:OG	44:LM:272:TYR:N	2.42	0.53
45:LN:198:GLU:HG2	45:LN:266:PHE:CE2	2.44	0.53
44:MA:311:LYS:HB2	44:MA:344:VAL:HG22	1.90	0.53
44:MC:67:PHE:O	44:MC:68:LEU:HD22	2.09	0.53
45:MH:69:GLU:OE2	45:MH:72:THR:HB	2.08	0.53
45:MH:242:PHE:CD2	45:MH:356:ILE:HB	2.44	0.53
44:MI:183:GLU:HG2	44:MI:184:PRO:HD3	1.91	0.53
45:ML:61:PRO:HD2	45:ML:84:LEU:O	2.09	0.53
45:ML:207:LEU:HD13	45:ML:225:LEU:HB3	1.90	0.53
45:ML:275:SER:OG	45:ML:278:SER:OG	2.05	0.53
44:MM:7:ILE:HB	44:MM:137:VAL:HG23	1.90	0.53
44:MM:204:LEU:HD23	44:MM:302:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:43:GLN:O	45:NB:47:ILE:HG13	2.08	0.53
45:NB:303:ALA:HB1	45:NB:373:ALA:O	2.09	0.53
45:ND:285:THR:CB	45:ND:287:PRO:HD2	2.39	0.53
44:NE:259:LEU:CD1	44:NE:316:SER:HB3	2.32	0.53
45:NF:175:VAL:HG11	45:NF:208:TYR:HE2	1.73	0.53
44:NG:54:SER:HB3	44:NG:64:ARG:NH2	2.23	0.53
44:NG:74:VAL:HG23	44:NG:75:ILE:HD12	1.91	0.53
45:NH:163:ILE:HD13	45:NH:251:ARG:HD2	1.91	0.53
45:NH:318:ARG:HH11	45:NH:358:PRO:HG3	1.73	0.53
44:NK:34:GLY:O	44:NK:60:LYS:HB2	2.09	0.53
44:NK:68:LEU:HD21	44:NK:118:CYS:CB	2.37	0.53
44:NK:121:ARG:HE	44:NK:125:LEU:HD21	1.73	0.53
45:NL:135:ILE:HG12	45:NL:164:MET:HE3	1.89	0.53
45:NL:173:PRO:HD2	45:NL:205:GLU:OE2	2.09	0.53
44:OA:112:LYS:O	44:OA:115:VAL:HG12	2.08	0.53
44:OC:79:ARG:CG	44:OC:92:LEU:HD13	2.39	0.53
44:OC:270:SER:HB2	44:OC:377:MET:O	2.09	0.53
45:OD:19:LYS:HG3	45:OD:230:SER:OG	2.09	0.53
45:OD:413:SER:O	45:OD:417:ASP:N	2.33	0.53
45:OF:131:GLN:HA	45:OF:162:ARG:HH21	1.73	0.53
44:OG:208:ALA:O	44:OG:212:ILE:HG12	2.08	0.53
44:OG:388:PHE:HD2	44:OG:432:TYR:HE2	1.56	0.53
45:OH:280:GLN:HG3	45:OH:281:TYR:CD1	2.43	0.53
44:OI:263:PRO:HD3	45:OL:396:HIS:CG	2.44	0.53
44:OI:324:VAL:HB	44:OI:327:ASP:OD2	2.09	0.53
45:OJ:403:MET:HE2	45:OJ:407:GLU:OE2	2.09	0.53
44:OK:213:CYS:O	44:OK:217:LEU:HB2	2.09	0.53
44:OK:271:SER:OG	44:OK:301:MET:HG3	2.09	0.53
44:OK:318:MET:O	44:OK:375:VAL:HG23	2.08	0.53
45:OL:19:LYS:O	45:OL:22:GLU:HB2	2.09	0.53
45:OL:319:GLY:HA2	45:OL:357:PRO:CD	2.38	0.53
44:OM:105:ARG:HA	44:OM:109:THR:OG1	2.09	0.53
44:OM:191:THR:O	44:OM:195:LEU:HB2	2.09	0.53
45:ON:293:MET:CE	45:ON:367:PHE:HB2	2.37	0.53
44:PA:10:GLY:N	44:PA:68:LEU:O	2.42	0.53
45:PB:21:TRP:CZ2	45:PB:61:PRO:HB3	2.44	0.53
44:PC:21:TRP:CE3	44:PC:24:PHE:HD2	2.27	0.53
44:PC:183:GLU:N	44:PC:184:PRO:HD2	2.24	0.53
44:PC:230:LEU:O	44:PC:234:VAL:HG23	2.08	0.53
45:PF:256:ASN:C	45:PF:257:LEU:HD12	2.28	0.53
45:PF:321:MET:SD	45:PF:363:MET:HG2	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:167:PHE:HE2	45:PH:233:MET:HG2	1.68	0.53
44:PK:9:VAL:CG1	44:PK:139:ASN:HB3	2.36	0.53
44:PM:91:GLN:CG	44:PM:92:LEU:HD12	2.39	0.53
44:PM:170:THR:O	44:PM:204:LEU:HB2	2.08	0.53
45:PN:4:ILE:CG2	45:PN:131:GLN:HB3	2.38	0.53
45:PN:183:TYR:OH	45:PN:388:MET:HG2	2.08	0.53
44:QA:98:ASP:OD1	44:QA:99:ALA:N	2.41	0.53
45:QB:38:GLY:CA	45:QB:43:GLN:HE22	2.21	0.53
45:QB:42:LEU:HA	45:QB:45:GLU:OE2	2.08	0.53
44:QC:175:PRO:HB3	44:QC:390:ARG:CD	2.36	0.53
44:QC:288:VAL:HG11	44:QC:327:ASP:HB3	1.91	0.53
44:QC:349:THR:HG21	45:QD:179:VAL:HA	1.91	0.53
45:QD:222:TYR:HA	45:QD:225:LEU:HD12	1.91	0.53
44:QE:12:GLY:O	44:QE:16:VAL:HG12	2.09	0.53
44:QE:319:TYR:CE2	44:QE:328:VAL:HG22	2.44	0.53
44:QE:386:GLU:O	44:QE:389:SER:OG	2.21	0.53
45:QF:99:ASN:CA	45:QF:142:GLY:HA3	2.23	0.53
45:QF:310:TYR:CE1	45:QF:371:SER:HB2	2.44	0.53
44:QG:405:VAL:O	44:QG:409:VAL:HG23	2.08	0.53
45:QH:193:VAL:HA	45:QH:264:HIS:CE1	2.44	0.53
44:QI:5:ILE:HD12	44:QI:135:PHE:CE1	2.44	0.53
45:QJ:257:LEU:CD2	45:QJ:368:VAL:HG12	2.39	0.53
44:QK:112:LYS:O	44:QK:115:VAL:HG12	2.08	0.53
45:QL:12:CYS:O	45:QL:16:ILE:HB	2.08	0.53
45:QL:87:PRO:HA	45:QL:90:PHE:CD2	2.43	0.53
45:QN:132:GLY:HA3	45:QN:163:ILE:CG1	2.38	0.53
45:QN:235:GLY:HA2	45:QN:238:CYS:SG	2.49	0.53
45:RD:117:LEU:HD22	45:RD:154:LYS:CD	2.34	0.53
44:RE:3:GLU:HG2	44:RE:64:ARG:CZ	2.39	0.53
44:RE:256:GLN:O	44:RE:260:VAL:HG12	2.09	0.53
44:RE:282:TYR:CE1	44:RE:370:LYS:HE3	2.44	0.53
44:RE:293:ASN:O	44:RE:297:GLU:HG3	2.09	0.53
45:RF:173:PRO:HB2	45:RF:380:ARG:HH11	1.74	0.53
45:RF:330:MET:HA	45:RF:333:VAL:HB	1.89	0.53
44:RG:206:ASN:O	44:RG:209:ILE:HG13	2.08	0.53
44:RG:319:TYR:HE2	44:RG:328:VAL:HG13	1.74	0.53
44:RG:324:VAL:CG2	44:RG:326:LYS:HG3	2.38	0.53
44:RG:416:GLY:O	44:RG:419:SER:N	2.40	0.53
45:RH:246:LEU:HA	44:RI:11:GLN:OE1	2.09	0.53
45:RH:315:ALA:HB1	45:RH:317:PHE:CE1	2.44	0.53
44:RI:56:THR:HG23	44:RI:58:ALA:N	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:195:LEU:HD12	44:RI:266:HIS:NE2	2.24	0.53
45:RJ:260:PHE:HA	44:RK:406:HIS:NE2	2.24	0.53
45:RL:377:MET:O	45:RL:380:ARG:HG2	2.09	0.53
45:RN:318:ARG:HD3	45:RN:358:PRO:CD	2.26	0.53
45:RN:411:ALA:O	45:RN:415:MET:N	2.37	0.53
44:SA:68:LEU:HD22	44:SA:153:LEU:HD11	1.90	0.53
45:SB:45:GLU:O	45:SB:46:ARG:HD3	2.08	0.53
45:SB:246:LEU:HD11	44:SC:224:TYR:CE2	2.43	0.53
44:SC:98:ASP:OD2	44:SC:100:ALA:N	2.42	0.53
44:SC:258:ASN:CG	44:SC:352:LYS:HE3	2.29	0.53
45:SD:244:GLY:HA2	45:SD:355:ASP:OD2	2.08	0.53
45:SD:256:ASN:C	45:SD:257:LEU:HD12	2.29	0.53
44:SE:66:VAL:CB	44:SE:121:ARG:HG2	2.39	0.53
44:SG:156:ARG:HG2	44:SG:160:ASP:CG	2.29	0.53
44:SG:272:TYR:CD1	44:SG:376:CYS:HB2	2.43	0.53
45:SH:283:ALA:O	45:SH:288:GLU:HG3	2.09	0.53
44:SI:393:HIS:O	44:SI:396:ASP:HB2	2.09	0.53
45:SJ:166:THR:HG21	45:SJ:192:LEU:HD11	1.91	0.53
45:SL:257:LEU:HD11	45:SL:314:SER:CB	2.38	0.53
44:SM:248:LEU:HB3	44:SM:355:ILE:CB	2.39	0.53
44:SM:262:TYR:HB3	44:SM:263:PRO:HD2	1.91	0.53
44:SM:269:LEU:HD12	44:SM:301:MET:HE2	1.91	0.53
44:TA:91:GLN:N	44:TA:91:GLN:OE1	2.42	0.53
44:TA:268:MET:HG3	44:TA:378:ILE:HG22	1.90	0.53
45:TB:148:GLY:O	45:TB:152:ILE:HG12	2.09	0.53
45:TD:53:GLU:HA	45:UD:281:TYR:OH	2.08	0.53
45:TD:228:LEU:HB3	45:TD:300:MET:CE	2.39	0.53
45:TF:68:LEU:HB2	45:TF:147:MET:HE1	1.91	0.53
45:TF:149:THR:OG1	45:TF:191:GLN:HB3	2.09	0.53
45:TF:420:SER:O	45:TF:423:GLN:HG3	2.09	0.53
44:TG:107:HIS:NE2	44:TG:155:GLU:OE1	2.40	0.53
45:TL:331:LEU:HA	45:TL:334:GLN:CG	2.39	0.53
44:TM:172:TYR:OH	44:TM:194:LEU:HD21	2.09	0.53
45:TN:114:ASP:OD1	45:TN:115:SER:N	2.42	0.53
44:UA:24:PHE:HE1	44:UA:236:SER:HB2	1.73	0.53
44:UA:211:ASP:O	44:UA:215:ARG:HD3	2.08	0.53
44:UA:284:GLU:HG3	44:UA:286:LEU:HD22	1.91	0.53
44:UA:297:GLU:HB2	44:UA:300:ASN:ND2	2.24	0.53
45:UB:177:ASP:HB2	48:UB:501:GDP:O3'	2.09	0.53
44:UC:52:PHE:HZ	44:UC:239:THR:HG21	1.73	0.53
44:UC:352:LYS:CD	45:UD:178:THR:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:65:LEU:HD22	45:UF:90:PHE:CZ	2.43	0.53
45:UF:113:ILE:O	45:UF:116:VAL:HG22	2.09	0.53
44:UG:84:ARG:O	44:UG:84:ARG:HD3	2.08	0.53
45:UH:155:VAL:HG11	45:UH:164:MET:CE	2.39	0.53
44:UI:265:ILE:HG12	44:UI:432:TYR:HE1	1.72	0.53
45:UJ:169:VAL:CG2	45:UJ:202:ILE:HB	2.30	0.53
44:UK:22:GLU:O	44:UK:25:CYS:HB2	2.08	0.53
45:UL:65:LEU:HD11	45:UL:85:PHE:CE2	2.44	0.53
45:UL:133:PHE:HB2	45:UL:164:MET:SD	2.49	0.53
44:UM:175:PRO:HD2	44:UM:207:GLU:OE1	2.08	0.53
44:UM:291:ILE:HG12	44:UM:373:ARG:HH12	1.72	0.53
45:UN:100:ASN:N	45:UN:142:GLY:HA3	2.24	0.53
44:VA:102:ASN:CG	44:VA:105:ARG:HG3	2.30	0.53
44:VA:107:HIS:ND1	44:VA:107:HIS:O	2.42	0.53
44:VA:296:PHE:CE2	44:VA:335:ILE:HG21	2.43	0.53
45:VB:299:MET:HE1	45:VB:305:PRO:HB3	1.91	0.53
45:VB:387:ALA:O	45:VB:390:ARG:HG2	2.09	0.53
44:VC:118:CYS:HA	44:VC:121:ARG:CB	2.38	0.53
45:VD:14:ASN:OD1	45:VD:15:GLN:HG2	2.09	0.53
45:VD:378:PHE:O	45:VD:381:VAL:HB	2.09	0.53
45:VF:317:PHE:CZ	45:VF:326:VAL:HG13	2.43	0.53
44:VG:1:MET:HG3	44:VG:1:MET:O	2.08	0.53
44:VG:99:ALA:HB3	44:VG:145:THR:HG22	1.91	0.53
45:VH:8:GLN:NE2	45:VH:65:LEU:HG	2.24	0.53
45:VH:182:PRO:HG2	45:VH:388:MET:HE1	1.91	0.53
45:VH:193:VAL:HG23	45:VH:264:HIS:NE2	2.24	0.53
45:VH:200:MET:SD	45:VH:268:ILE:HG21	2.49	0.53
44:VI:265:ILE:HG23	44:VI:432:TYR:HE1	1.72	0.53
44:VK:53:PHE:HB3	44:VK:61:HIS:CB	2.39	0.53
45:VN:21:TRP:CE3	45:VN:61:PRO:HB3	2.44	0.53
45:VN:113:ILE:CD1	45:VN:150:LEU:HD22	2.35	0.53
44:WA:101:ASN:OD1	45:WB:252:LYS:HE3	2.09	0.53
44:WA:230:LEU:HD21	44:WA:275:ILE:CD1	2.39	0.53
44:WA:288:VAL:HA	44:WA:291:ILE:HG12	1.88	0.53
44:WA:344:VAL:HG11	44:WA:346:TRP:CE2	2.43	0.53
44:WA:387:VAL:CA	44:WA:390:ARG:HG2	2.38	0.53
45:WB:315:ALA:HB3	45:WB:351:SER:HA	1.91	0.53
44:WC:5:ILE:HG23	44:WC:132:LEU:HD12	1.90	0.53
44:WC:103:PHE:CD1	44:WC:147:SER:HB2	2.43	0.53
44:WC:115:VAL:O	44:WC:119:LEU:HD23	2.08	0.53
45:WD:117:LEU:HD23	45:WD:117:LEU:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:25:CYS:HA	44:WE:30:ILE:CG1	2.39	0.53
45:WF:133:PHE:CD2	45:WF:155:VAL:HG11	2.43	0.53
45:WF:245:GLN:HG3	45:WF:353:ILE:HG21	1.91	0.53
44:WG:2:ARG:H	44:WG:2:ARG:HD3	1.74	0.53
44:WG:39:ASP:HA	44:WG:41:THR:O	2.09	0.53
44:WG:288:VAL:O	44:WG:291:ILE:HG22	2.09	0.53
45:WH:240:LEU:HD12	45:WH:249:ASP:CB	2.39	0.53
45:WH:317:PHE:CD2	45:WH:321:MET:HE1	2.44	0.53
44:WI:311:LYS:O	44:WI:312:TYR:HD1	1.91	0.53
44:WK:88:HIS:HB3	44:WK:91:GLN:HG2	1.90	0.53
44:WK:215:ARG:CZ	44:WK:299:ALA:HB1	2.39	0.53
44:WK:259:LEU:HD11	44:WK:316:SER:CB	2.39	0.53
44:WK:331:SER:O	44:WK:334:THR:HB	2.08	0.53
44:WM:7:ILE:HA	44:WM:66:VAL:HG12	1.91	0.53
44:WM:175:PRO:HD3	44:WM:304:LYS:HE2	1.91	0.53
44:WM:331:SER:HA	44:WM:334:THR:CB	2.39	0.53
45:WN:163:ILE:CD1	45:WN:251:ARG:HA	2.39	0.53
45:WN:185:ALA:O	45:WN:188:SER:OG	2.21	0.53
1:6H:293:ASP:HB3	45:FH:360:GLY:N	2.11	0.53
3:0B:71:ILE:HD13	45:JH:274:THR:HG22	1.90	0.53
5:0D:11:VAL:HG11	44:CC:79:ARG:HD2	1.90	0.53
10:0N:10:TYR:HH	45:IN:52:ASN:HA	1.73	0.53
15:0V:113:ARG:N	44:LM:196:GLU:OE2	2.41	0.53
25:1P:226:HIS:HE1	44:TG:279:GLU:HA	1.74	0.53
26:3R:33:ASN:HD21	44:MK:45:GLY:HA3	1.72	0.53
28:4C:223:GLN:HB3	44:KM:219:ILE:HG23	1.89	0.53
35:4R:112:ARG:NH2	45:BH:276:ARG:HD2	2.16	0.53
37:5B:70:MET:HE1	45:NF:37:HIS:O	2.07	0.53
37:5C:142:GLN:NE2	45:NL:245:GLN:HE21	2.00	0.53
37:5D:37:ASP:O	44:KK:264:ARG:N	2.41	0.53
37:5D:44:SER:CB	45:KN:391:ARG:O	2.54	0.53
38:5G:121:GLU:HB3	44:OI:370:LYS:HZ2	1.74	0.53
11:5Q:135:ASN:ND2	11:5Q:138:ASP:HB3	2.24	0.53
35:6R:171:ILE:HG22	35:6R:173:LEU:HD13	1.91	0.53
35:6R:341:ARG:HH22	35:6R:344:ASN:ND2	2.07	0.53
35:7R:275:ILE:HB	35:7R:288:LYS:O	2.09	0.53
35:7R:509:ASP:HB3	35:7R:512:THR:CB	2.39	0.53
35:7R:549:MET:O	35:7R:553:ILE:HG22	2.09	0.53
44:AA:209:ILE:CD1	44:AA:227:LEU:HB3	2.36	0.53
45:AB:146:GLY:O	45:AB:149:THR:HG22	2.09	0.53
45:AB:190:HIS:CE1	45:AB:414:ASN:HD22	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:330:MET:CE	45:AD:330:MET:HA	2.37	0.53
45:AF:42:LEU:O	45:AF:45:GLU:HG2	2.09	0.53
45:AF:151:LEU:O	45:AF:155:VAL:HG23	2.08	0.53
45:AF:193:VAL:HA	45:AF:264:HIS:HE2	1.74	0.53
45:AF:317:PHE:O	45:AF:353:ILE:HA	2.08	0.53
44:AG:260:VAL:HG23	44:AG:260:VAL:O	2.09	0.53
45:AJ:32:PRO:HG3	45:AJ:81:PHE:CE2	2.44	0.53
45:AJ:91:VAL:HG21	45:AJ:116:VAL:HA	1.90	0.53
44:AK:98:ASP:OD1	44:AK:99:ALA:N	2.41	0.53
44:AK:99:ALA:CB	44:AK:145:THR:HB	2.39	0.53
44:AK:204:LEU:HD23	44:AK:302:MET:HG2	1.89	0.53
44:AK:385:ALA:HB2	44:AK:432:TYR:HD2	1.74	0.53
44:AK:387:VAL:O	44:AK:391:LEU:HD13	2.09	0.53
44:AM:268:MET:HG3	44:AM:378:ILE:HG22	1.90	0.53
44:BA:176:GLN:NE2	44:BA:207:GLU:OE2	2.42	0.53
44:BA:179:THR:HG21	45:BB:246:LEU:HD22	1.91	0.53
45:BB:273:LEU:H	45:BB:292:GLN:HE22	1.55	0.53
44:BC:17:GLY:HA2	44:BC:20:CYS:SG	2.48	0.53
45:BD:170:VAL:HG23	45:BD:171:PRO:HD2	1.91	0.53
44:BE:181:VAL:HG12	45:BF:256:ASN:HB3	1.90	0.53
44:BE:223:THR:O	44:BE:227:LEU:HG	2.08	0.53
45:BF:54:ALA:HA	45:CD:283:ALA:HB2	1.91	0.53
45:BF:139:LEU:CD1	45:BF:168:SER:HB2	2.39	0.53
45:BF:193:VAL:HA	45:BF:264:HIS:HE1	1.69	0.53
45:BF:217:LEU:CD1	45:BF:220:PRO:HB3	2.37	0.53
45:BF:311:LEU:CD1	45:BF:372:THR:HG23	2.39	0.53
44:BG:202:VAL:HA	44:BG:268:MET:O	2.09	0.53
44:BI:62:VAL:CG2	44:BI:88:HIS:HB3	2.39	0.53
44:BI:278:ALA:N	44:BI:369:ALA:HB2	2.24	0.53
45:BJ:377:MET:HA	45:BJ:380:ARG:CD	2.39	0.53
44:BM:21:TRP:CZ2	44:BM:65:ALA:HB2	2.44	0.53
44:BM:72:PRO:HB2	44:BM:76:ASP:OD2	2.09	0.53
45:BN:143:THR:HG23	45:BN:144:GLY:H	1.74	0.53
44:CA:11:GLN:CG	44:CA:74:VAL:HG11	2.28	0.53
45:CB:5:VAL:CG1	45:CB:62:ARG:HD3	2.23	0.53
45:CB:130:LEU:HD21	45:CB:133:PHE:CZ	2.44	0.53
45:CB:206:ALA:HB2	45:CB:302:ALA:HA	1.91	0.53
45:CD:330:MET:HE3	45:CD:349:ILE:HG21	1.90	0.53
44:CE:265:ILE:CD1	44:CE:435:VAL:HG21	2.39	0.53
45:CF:395:LEU:HG	45:CF:399:THR:HG21	1.91	0.53
44:CG:1:MET:CE	45:CH:94:GLN:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:259:LEU:HD11	44:CG:378:ILE:CG2	2.39	0.53
44:CI:437:ILE:O	44:CI:437:ILE:HG13	2.09	0.53
45:CJ:7:ILE:HB	45:CJ:135:ILE:HD13	1.91	0.53
44:CM:204:LEU:CD1	44:CM:231:ILE:HD13	2.30	0.53
45:CN:97:ALA:HB1	45:CN:100:ASN:O	2.08	0.53
44:DA:67:PHE:O	44:DA:68:LEU:HD12	2.09	0.53
44:DA:318:MET:CE	44:DA:354:GLY:HA3	2.39	0.53
44:DC:6:SER:HB2	44:DC:8:HIS:CE1	2.41	0.53
45:DD:4:ILE:HD12	45:DD:134:GLN:HG3	1.91	0.53
45:DF:42:LEU:HA	45:DF:45:GLU:OE1	2.09	0.53
44:DG:223:THR:HG23	44:DG:225:THR:HG23	1.91	0.53
44:DI:242:LEU:HD22	44:DI:252:ILE:HG13	1.91	0.53
44:DI:400:ALA:C	44:DI:401:LYS:HD2	2.30	0.53
45:DJ:245:GLN:HB2	45:DJ:353:ILE:CD1	2.36	0.53
44:EA:345:ASP:HB2	44:EA:438:GLU:CG	2.38	0.53
44:EC:110:ILE:O	44:EC:114:ILE:HG22	2.09	0.53
44:EE:363:VAL:HG22	44:EE:364:PRO:HD2	1.89	0.53
44:EG:68:LEU:CD2	44:EG:118:CYS:HB2	2.35	0.53
45:EJ:49:VAL:HG11	45:EJ:241:ARG:CD	2.38	0.53
45:EJ:124:ALA:HB1	45:EJ:130:LEU:HD22	1.89	0.53
45:EJ:323:THR:HG21	44:EK:224:TYR:CZ	2.43	0.53
44:EK:230:LEU:HD11	44:EK:275:ILE:HD13	1.90	0.53
45:EL:108:GLU:O	45:EL:111:GLU:N	2.42	0.53
45:EL:124:ALA:HB1	45:EL:130:LEU:HD22	1.89	0.53
45:EL:267:MET:HG2	45:EL:369:GLY:O	2.09	0.53
44:EM:16:VAL:HG12	44:EM:228:ASN:OD1	2.08	0.53
44:EM:171:ILE:HG23	44:EM:204:LEU:O	2.09	0.53
44:FA:21:TRP:HZ2	44:FA:65:ALA:HB2	1.74	0.53
44:FA:121:ARG:O	44:FA:125:LEU:N	2.38	0.53
45:FB:140:GLY:HA2	45:FB:171:PRO:CB	2.39	0.53
45:FB:174:LYS:CD	45:FB:175:VAL:HG13	2.28	0.53
45:FB:183:TYR:HA	45:FB:385:PHE:CD1	2.43	0.53
44:FC:174:SER:HB2	44:FC:177:VAL:O	2.08	0.53
44:FC:313:MET:HG3	44:FC:314:ALA:N	2.23	0.53
45:FD:7:ILE:HB	45:FD:135:ILE:CD1	2.39	0.53
45:FF:330:MET:HE1	45:FF:350:LYS:O	2.08	0.53
45:FF:406:MET:O	45:FF:409:THR:HG22	2.09	0.53
44:FG:383:ALA:O	44:FG:386:GLU:HG2	2.08	0.53
44:FG:398:MET:HE2	45:FH:346:PRO:CD	2.38	0.53
45:FH:325:GLU:HB2	45:FH:327:ASP:HB2	1.91	0.53
44:FI:19:ALA:HB3	44:FI:228:ASN:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:209:ILE:O	44:FI:212:ILE:HG22	2.08	0.53
45:FJ:139:LEU:HD23	45:FJ:168:SER:HB3	1.91	0.53
44:FK:192:HIS:ND1	44:FK:424:ASP:OD2	2.42	0.53
45:FL:52:ASN:ND2	45:FL:123:GLU:OE2	2.42	0.53
44:FM:6:SER:C	44:FM:7:ILE:HD13	2.29	0.53
44:FM:280:LYS:HD2	44:FM:283:HIS:ND1	2.24	0.53
44:GA:260:VAL:HG13	44:GA:265:ILE:O	2.09	0.53
44:GC:311:LYS:N	44:GC:382:THR:HG1	2.05	0.53
44:GC:320:ARG:HH22	44:GC:360:PRO:CB	2.21	0.53
44:GC:340:THR:HG23	44:GC:341:ILE:HG13	1.90	0.53
44:GE:99:ALA:HB3	44:GE:145:THR:N	2.23	0.53
44:GE:141:VAL:HG22	44:GE:171:ILE:O	2.08	0.53
44:GE:401:LYS:O	44:GE:402:ARG:HG2	2.09	0.53
44:GG:23:LEU:CD2	44:GG:236:SER:HB2	2.38	0.53
44:GG:90:GLU:HG3	44:GG:121:ARG:NH1	2.24	0.53
44:GG:271:SER:HA	44:GG:302:MET:HG3	1.89	0.53
44:GG:278:ALA:HB2	44:GG:369:ALA:HB2	1.91	0.53
45:GH:390:ARG:O	45:GH:392:LYS:NZ	2.42	0.53
45:GJ:69:GLU:OE2	45:GJ:72:THR:HG22	2.08	0.53
45:GJ:144:GLY:H	48:GJ:502:GDP:PB	2.32	0.53
45:GJ:175:VAL:O	45:GJ:175:VAL:HG23	2.09	0.53
45:GL:242:PHE:HB3	45:GL:243:PRO:CD	2.39	0.53
45:GL:267:MET:HE2	45:GL:299:MET:HG2	1.91	0.53
44:GM:69:ASP:OD2	44:GM:74:VAL:HG22	2.09	0.53
45:GN:311:LEU:O	45:GN:348:ASN:ND2	2.41	0.53
44:HA:141:VAL:HG11	44:HA:172:TYR:HA	1.90	0.53
44:HC:93:ILE:HD12	44:HC:93:ILE:H	1.74	0.53
45:HD:173:PRO:HG2	45:HD:380:ARG:HB2	1.89	0.53
44:HE:89:PRO:HD3	44:IE:283:HIS:CE1	2.43	0.53
44:HE:174:SER:CB	44:HE:207:GLU:HB2	2.39	0.53
44:HE:222:PRO:HA	44:HE:226:ASN:OD1	2.09	0.53
44:HK:272:TYR:CD1	44:HK:376:CYS:HB3	2.44	0.53
45:HL:169:VAL:HG11	45:HL:204:ASN:ND2	2.24	0.53
44:HM:296:PHE:HD2	44:HM:335:ILE:HD12	1.74	0.53
45:HN:386:THR:HG21	45:HN:389:PHE:CE1	2.43	0.53
45:IB:113:ILE:CD1	45:IB:154:LYS:HD2	2.39	0.53
44:IC:188:ILE:HG13	44:IC:395:PHE:CD2	2.44	0.53
45:ID:49:VAL:HG11	45:ID:241:ARG:HD3	1.90	0.53
44:IE:102:ASN:OD1	44:IE:104:ALA:HB3	2.09	0.53
45:IF:24:ILE:HA	45:IF:27:GLU:CG	2.38	0.53
45:IF:133:PHE:O	45:IF:164:MET:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IF:238:CYS:SG	45:IF:239:CYS:N	2.81	0.53
44:IG:408:TYR:HB3	44:IG:413:MET:CE	2.38	0.53
45:IH:86:ARG:CZ	44:JE:280:LYS:HA	2.38	0.53
45:IH:200:MET:HA	45:IH:266:PHE:O	2.08	0.53
44:II:31:GLN:CG	44:II:32:PRO:HD2	2.38	0.53
45:IJ:237:THR:HG23	45:IJ:241:ARG:NH2	2.24	0.53
45:IJ:286:VAL:HA	45:IJ:363:MET:HE1	1.91	0.53
45:IL:66:MET:HB3	45:IL:88:ASP:O	2.08	0.53
45:IL:134:GLN:HG3	45:IL:165:GLU:HB2	1.91	0.53
44:IM:317:MET:HE1	44:IM:319:TYR:OH	2.08	0.53
45:IN:6:HIS:CE1	45:IN:8:GLN:OE1	2.62	0.53
44:JA:2:ARG:O	44:JA:51:THR:HG22	2.09	0.53
44:JA:111:GLY:CA	44:JA:149:LEU:HD21	2.39	0.53
45:JB:211:CYS:HA	45:JB:215:LEU:HD12	1.91	0.53
44:JE:1:MET:HB3	44:JE:2:ARG:NH1	2.21	0.53
44:JE:247:ALA:HB1	45:JH:222:TYR:HD2	1.73	0.53
44:JE:277:SER:C	44:JE:369:ALA:HB2	2.30	0.53
45:JF:171:PRO:HG2	45:JF:181:GLU:HG2	1.90	0.53
45:JF:310:TYR:HE1	45:JF:371:SER:HB3	1.74	0.53
44:JG:30:ILE:HG13	44:JG:30:ILE:O	2.09	0.53
44:JI:51:THR:CG2	44:JI:243:ARG:HB3	2.26	0.53
45:JJ:7:ILE:HG12	45:JJ:64:ILE:HD13	1.91	0.53
44:JK:1:MET:SD	45:JN:70:PRO:HG2	2.49	0.53
44:JK:141:VAL:HG23	44:JK:190:SER:HB3	1.90	0.53
45:JL:16:ILE:HD13	45:JL:226:ASN:OD1	2.09	0.53
44:KA:13:GLY:HA2	44:KA:16:VAL:HG22	1.89	0.53
44:KA:60:LYS:HZ2	44:LA:283:HIS:HA	1.72	0.53
44:KA:118:CYS:O	44:KA:122:ILE:HG12	2.09	0.53
44:KA:319:TYR:CE1	44:KA:375:VAL:HG23	2.42	0.53
45:KB:161:ASP:OD1	45:KB:162:ARG:HG2	2.08	0.53
44:KE:239:THR:O	44:KE:239:THR:HG22	2.09	0.53
44:KI:88:HIS:NE2	44:LI:284:GLU:OE2	2.39	0.53
44:KI:200:VAL:HG13	44:KI:268:MET:CE	2.39	0.53
44:KI:215:ARG:O	44:KI:215:ARG:HG2	2.07	0.53
45:KJ:66:MET:HE1	45:KJ:147:MET:SD	2.49	0.53
45:KJ:269:GLY:HA2	45:KJ:300:MET:HE2	1.91	0.53
45:KJ:287:PRO:HA	45:KJ:290:THR:CG2	2.39	0.53
44:KM:199:ASP:O	44:KM:266:HIS:HB2	2.09	0.53
44:LA:271:SER:HB3	44:LA:377:MET:CB	2.39	0.53
44:LC:67:PHE:O	44:LC:68:LEU:HD22	2.09	0.53
44:LC:102:ASN:HB3	44:LC:105:ARG:CB	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:245:GLN:C	45:LD:246:LEU:HD12	2.30	0.53
45:LF:207:LEU:CD1	45:LF:225:LEU:HD23	2.38	0.53
44:LG:319:TYR:CE2	44:LG:328:VAL:HG23	2.37	0.53
45:LL:67:ASP:N	45:LL:73:MET:HE3	2.23	0.53
45:LL:173:PRO:CG	45:LL:380:ARG:HE	2.14	0.53
45:LL:311:LEU:O	45:LL:345:ILE:HD11	2.09	0.53
44:LM:17:GLY:HA2	44:LM:20:CYS:SG	2.48	0.53
44:LM:86:LEU:HD23	44:LM:87:PHE:CZ	2.44	0.53
44:LM:394:LYS:NZ	45:LN:346:PRO:HG2	2.24	0.53
44:MA:271:SER:HA	44:MA:302:MET:HB2	1.91	0.53
45:MB:218:THR:HG23	45:MB:219:THR:N	2.24	0.53
45:MB:242:PHE:HB2	45:MB:354:CYS:SG	2.48	0.53
44:MC:98:ASP:OD1	44:MC:99:ALA:N	2.42	0.53
44:MC:184:PRO:HG2	44:MC:398:MET:HE1	1.89	0.53
44:MC:200:VAL:HG13	44:MC:268:MET:SD	2.49	0.53
44:MC:217:LEU:HD21	44:MC:275:ILE:HG23	1.91	0.53
44:MC:426:ALA:O	44:MC:429:GLU:HB2	2.09	0.53
45:MD:302:ALA:HB3	45:MD:377:MET:CE	2.39	0.53
44:MG:14:ILE:HD13	44:MG:75:ILE:HD11	1.90	0.53
44:MG:256:GLN:O	45:MJ:397:TRP:NE1	2.42	0.53
45:MH:68:LEU:HD13	45:MH:143:THR:OG1	2.09	0.53
44:MI:259:LEU:HD21	44:MI:316:SER:CB	2.39	0.53
44:MI:428:LEU:HG	44:MI:432:TYR:HE2	1.73	0.53
45:MJ:11:GLN:CB	45:MJ:72:THR:HG21	2.39	0.53
44:MK:183:GLU:O	44:MK:187:SER:N	2.31	0.53
45:ML:234:SER:O	45:ML:238:CYS:HB3	2.08	0.53
45:MN:258:ILE:HG13	45:MN:266:PHE:HZ	1.73	0.53
44:NA:141:VAL:HG11	44:NA:172:TYR:CD1	2.43	0.53
44:NA:305:CYS:SG	44:NA:387:VAL:HG13	2.49	0.53
45:ND:167:PHE:HE2	45:ND:233:MET:HB2	1.73	0.53
44:NE:176:GLN:OE1	44:NE:176:GLN:N	2.42	0.53
44:NE:363:VAL:CG2	44:NE:364:PRO:HD2	2.38	0.53
44:NE:371:VAL:HG22	44:NE:373:ARG:H	1.74	0.53
45:NF:12:CYS:SG	45:NF:138:SER:HB2	2.49	0.53
45:NF:60:VAL:HG13	45:NF:84:LEU:O	2.09	0.53
45:NF:113:ILE:O	45:NF:117:LEU:HD23	2.09	0.53
45:NF:238:CYS:HB3	45:NF:318:ARG:HH22	1.72	0.53
45:NH:180:VAL:HG11	45:NH:398:TYR:OH	2.09	0.53
44:NI:60:LYS:NZ	44:OI:282:TYR:O	2.41	0.53
44:NI:272:TYR:O	44:NI:300:ASN:ND2	2.42	0.53
45:NL:198:GLU:OE2	45:NL:254:ALA:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:15:GLN:O	44:NM:18:ASN:HB2	2.09	0.53
44:NM:53:PHE:CD2	44:NM:63:PRO:HG3	2.43	0.53
44:OA:11:GLN:O	44:OA:14:ILE:N	2.40	0.53
44:OA:62:VAL:CG1	44:OA:63:PRO:CA	2.86	0.53
44:OA:168:GLY:O	44:OA:202:VAL:HG22	2.09	0.53
45:OB:201:VAL:CG2	45:OB:267:MET:HB2	2.39	0.53
45:OD:20:PHE:O	45:OD:24:ILE:HG12	2.08	0.53
44:OE:115:VAL:HG22	44:OE:119:LEU:HD23	1.91	0.53
45:OF:271:ALA:HB3	45:OF:365:VAL:HG23	1.91	0.53
44:OG:28:HIS:NE2	44:OG:49:PHE:HB3	2.24	0.53
44:OI:109:THR:HG21	44:OI:411:GLU:OE1	2.09	0.53
44:OK:298:PRO:HA	44:OK:301:MET:HE1	1.91	0.53
45:ON:49:VAL:O	45:ON:62:ARG:NH1	2.42	0.53
45:ON:117:LEU:HD21	45:ON:154:LYS:CB	2.39	0.53
45:ON:166:THR:HB	45:ON:199:CYS:HA	1.91	0.53
45:ON:383:GLU:HA	45:ON:386:THR:OG1	2.09	0.53
44:PA:70:LEU:CD2	44:PA:114:ILE:HG13	2.38	0.53
44:PA:115:VAL:HG22	44:PA:156:ARG:HD2	1.90	0.53
45:PB:238:CYS:HB3	45:PB:318:ARG:HD2	1.91	0.53
45:PD:8:GLN:NE2	45:PD:65:LEU:HG	2.23	0.53
45:PD:238:CYS:HB2	45:PD:318:ARG:NH2	2.24	0.53
45:PD:406:MET:O	45:PD:410:GLU:HG3	2.09	0.53
44:PE:231:ILE:O	44:PE:235:ILE:HG12	2.09	0.53
44:PG:152:LEU:O	44:PG:156:ARG:HG2	2.09	0.53
44:PG:189:LEU:HD11	44:PG:418:PHE:CE1	2.44	0.53
44:PG:287:SER:HA	44:PG:373:ARG:HH21	1.72	0.53
45:PH:229:VAL:O	45:PH:233:MET:HG3	2.08	0.53
44:PI:11:GLN:CD	44:PI:74:VAL:HG11	2.29	0.53
44:PI:260:VAL:HG11	44:PI:268:MET:CE	2.39	0.53
44:PK:60:LYS:HD3	44:QK:283:HIS:CE1	2.44	0.53
44:PK:100:ALA:O	45:PL:255:VAL:HG21	2.09	0.53
44:PM:104:ALA:CA	44:PM:413:MET:HE2	2.25	0.53
44:PM:294:SER:O	44:PM:300:ASN:ND2	2.42	0.53
44:PM:317:MET:O	44:PM:353:VAL:HA	2.08	0.53
45:PN:149:THR:OG1	45:PN:191:GLN:HG2	2.08	0.53
45:QB:30:ILE:HD13	45:QB:36:TYR:CD1	2.43	0.53
45:QB:103:LYS:O	45:QB:108:GLU:HB2	2.09	0.53
45:QF:86:ARG:CZ	45:RF:278:SER:HA	2.39	0.53
44:QI:326:LYS:HD3	45:QJ:212:PHE:HZ	1.73	0.53
44:QK:87:PHE:CB	44:QK:92:LEU:HD11	2.39	0.53
44:QK:350:GLY:HA2	45:QL:179:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:417:ASP:OD1	45:QL:421:GLU:HG3	2.09	0.53
44:QM:88:HIS:C	44:QM:89:PRO:HB2	2.28	0.53
45:QN:52:ASN:HB2	45:QN:60:VAL:CG1	2.39	0.53
44:RA:287:SER:O	44:RA:290:GLU:HG2	2.09	0.53
44:RA:316:SER:O	44:RA:378:ILE:N	2.33	0.53
45:RB:6:HIS:CD2	45:RB:134:GLN:HG3	2.43	0.53
45:RB:317:PHE:N	45:RB:352:SER:O	2.40	0.53
44:RC:349:THR:O	45:RD:179:VAL:HG23	2.08	0.53
44:RE:80:THR:C	44:RE:84:ARG:HB3	2.29	0.53
44:RE:145:THR:OG1	44:RE:149:LEU:HD23	2.09	0.53
44:RE:296:PHE:HD1	44:RE:341:ILE:HD13	1.72	0.53
44:RE:315:CYS:SG	44:RE:317:MET:HE2	2.48	0.53
45:RF:134:GLN:NE2	45:RF:233:MET:SD	2.82	0.53
44:RG:344:VAL:CG1	44:RG:347:CYS:HB2	2.38	0.53
45:RH:7:ILE:HB	45:RH:135:ILE:HD11	1.90	0.53
45:RH:367:PHE:CE1	45:RH:369:GLY:HA3	2.44	0.53
44:RI:212:ILE:O	44:RI:216:ASN:HB2	2.09	0.53
45:RJ:242:PHE:CD2	45:RJ:356:ILE:HG21	2.44	0.53
45:RJ:251:ARG:O	45:RJ:255:VAL:HG23	2.08	0.53
44:RK:261:PRO:HG2	44:RK:313:MET:SD	2.49	0.53
44:RK:273:ALA:O	44:RK:375:VAL:HG22	2.09	0.53
45:RL:247:ASN:HD21	44:RM:74:VAL:CG1	2.22	0.53
44:RM:115:VAL:HG23	44:RM:120:ASP:HB3	1.91	0.53
44:RM:141:VAL:HG23	44:RM:190:SER:OG	2.09	0.53
45:RN:50:TYR:O	45:RN:62:ARG:HG2	2.09	0.53
44:SA:327:ASP:O	44:SA:331:SER:N	2.42	0.53
44:SA:424:ASP:O	44:SA:428:LEU:N	2.24	0.53
45:SB:97:ALA:CA	45:SB:103:LYS:HD2	2.35	0.53
44:SE:70:LEU:CD1	44:SE:110:ILE:HD12	2.38	0.53
45:SF:4:ILE:HA	45:SF:130:LEU:HD12	1.89	0.53
45:SF:287:PRO:HB3	45:SF:329:GLN:NE2	2.23	0.53
44:SG:89:PRO:HG2	44:TG:280:LYS:HG3	1.91	0.53
44:SG:121:ARG:O	44:SG:125:LEU:HG	2.09	0.53
44:SG:253:THR:HG23	44:SG:254:GLU:HG3	1.91	0.53
44:SG:276:ILE:HD11	44:SG:281:ALA:HA	1.90	0.53
45:SH:99:ASN:HA	45:SH:142:GLY:H	1.74	0.53
44:SI:20:CYS:HA	44:SI:232:ALA:CB	2.38	0.53
44:SI:419:SER:O	44:SI:422:ARG:N	2.41	0.53
45:SL:252:LYS:HE3	44:SM:98:ASP:OD2	2.09	0.53
45:SL:256:ASN:ND2	44:SM:181:VAL:HG22	2.23	0.53
44:SM:256:GLN:CD	44:SM:257:THR:HG23	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:233:MET:CA	45:SN:236:VAL:HG23	2.39	0.53
44:TA:273:ALA:O	44:TA:374:ALA:HB1	2.09	0.53
44:TA:340:THR:HG23	44:TA:341:ILE:HG13	1.90	0.53
45:TB:263:LEU:HG	45:TB:422:TYR:CD1	2.44	0.53
44:TC:4:VAL:HG23	44:TC:134:GLY:O	2.08	0.53
44:TC:231:ILE:O	44:TC:235:ILE:HD12	2.09	0.53
44:TC:291:ILE:HG13	44:TC:292:THR:N	2.24	0.53
45:TD:186:THR:HG23	45:TD:415:MET:CE	2.38	0.53
45:TF:187:LEU:HD23	45:TF:411:ALA:CB	2.39	0.53
45:TF:322:SER:HB3	44:TG:221:ARG:HG3	1.89	0.53
44:TG:70:LEU:HD22	44:TG:110:ILE:CD1	2.35	0.53
44:TG:202:VAL:HA	44:TG:268:MET:O	2.07	0.53
45:TH:248:SER:HA	45:TH:252:LYS:HD2	1.90	0.53
45:TJ:263:LEU:HG	45:TJ:422:TYR:CD1	2.44	0.53
44:TK:183:GLU:CD	44:TK:184:PRO:HD3	2.29	0.53
45:TL:330:MET:SD	45:TL:349:ILE:HG21	2.49	0.53
45:TN:272:PRO:HD3	45:TN:289:LEU:CD2	2.39	0.53
44:UA:387:VAL:HA	44:UA:390:ARG:HG2	1.90	0.53
44:UA:431:ASP:O	44:UA:435:VAL:HG23	2.09	0.53
45:UB:245:GLN:HB3	44:UC:224:TYR:CE2	2.43	0.53
45:UB:245:GLN:C	45:UB:246:LEU:HD12	2.29	0.53
44:UC:183:GLU:CD	44:UC:184:PRO:HD3	2.29	0.53
44:UC:257:THR:HA	45:UD:397:TRP:CZ2	2.44	0.53
45:UD:113:ILE:HD11	45:UD:150:LEU:HB3	1.91	0.53
44:UE:13:GLY:CA	44:UE:16:VAL:HG12	2.39	0.53
44:UE:240:ALA:HB1	44:UE:356:ASN:ND2	2.24	0.53
45:UF:159:TYR:HB3	45:UF:162:ARG:CB	2.38	0.53
45:UF:245:GLN:O	45:UF:246:LEU:HD12	2.09	0.53
45:UF:253:LEU:O	45:UF:257:LEU:HD13	2.08	0.53
45:UH:32:PRO:HG3	45:UH:81:PHE:CE1	2.44	0.53
45:UH:256:ASN:HD22	45:UH:350:LYS:HD2	1.74	0.53
45:UJ:113:ILE:HD13	45:UJ:150:LEU:HD22	1.90	0.53
45:UJ:286:VAL:HB	45:UJ:287:PRO:HD3	1.91	0.53
45:UJ:423:GLN:HA	45:UJ:426:GLN:HB2	1.91	0.53
44:UK:387:VAL:O	44:UK:391:LEU:HD13	2.09	0.53
45:UL:146:GLY:O	45:UL:149:THR:HG22	2.09	0.53
45:UN:256:ASN:ND2	45:UN:350:LYS:HD2	2.24	0.53
44:VC:7:ILE:HG21	44:VC:153:LEU:CD2	2.37	0.53
44:VC:97:GLU:OE2	45:VD:251:ARG:HD3	2.09	0.53
44:VC:276:ILE:O	44:VC:281:ALA:HB2	2.08	0.53
45:VD:109:GLY:HA3	45:VD:147:MET:CE	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:285:GLN:HG3	44:VE:287:SER:N	2.24	0.53
44:VG:19:ALA:CB	44:VG:228:ASN:HB3	2.39	0.53
44:VG:102:ASN:HD21	44:VG:411:GLU:CG	2.19	0.53
44:VG:210:TYR:CE1	45:VH:324:LYS:HB2	2.44	0.53
44:VG:240:ALA:HB1	44:VG:356:ASN:HD22	1.73	0.53
45:VH:317:PHE:CE2	45:VH:326:VAL:HG22	2.43	0.53
44:VI:51:THR:HG21	44:VI:243:ARG:HD3	1.91	0.53
45:VJ:338:SER:HB3	45:VJ:341:PHE:CD2	2.44	0.53
45:VL:253:LEU:O	45:VL:257:LEU:HD13	2.09	0.53
45:VN:270:PHE:CE1	45:VN:364:ALA:HB1	2.43	0.53
44:WA:186:ASN:O	44:WA:189:LEU:N	2.41	0.53
45:WD:318:ARG:HD3	45:WD:358:PRO:HG3	1.90	0.53
44:WG:261:PRO:HA	45:WJ:394:PHE:CZ	2.44	0.53
45:WH:239:CYS:CB	45:WH:354:CYS:HB2	2.36	0.53
45:WH:386:THR:CG2	45:WH:389:PHE:H	2.22	0.53
44:WI:209:ILE:HA	44:WI:212:ILE:HB	1.91	0.53
44:WK:51:THR:OG1	44:WK:243:ARG:HB3	2.09	0.53
44:WK:66:VAL:HG13	44:WK:121:ARG:HG2	1.91	0.53
44:WK:67:PHE:C	44:WK:68:LEU:HD12	2.29	0.53
45:WL:113:ILE:CA	45:WL:116:VAL:HG12	2.37	0.53
45:WL:174:LYS:HD2	45:WL:175:VAL:HG13	1.90	0.53
45:WL:228:LEU:HD22	45:WL:273:LEU:CD1	2.39	0.53
44:WM:148:GLY:O	44:WM:151:SER:OG	2.14	0.53
44:WM:175:PRO:HD3	44:WM:304:LYS:CE	2.38	0.53
3:0B:118:ASN:ND2	44:JG:365:GLY:HA2	2.24	0.53
16:0X:26:GLU:OE1	45:MD:276:ARG:NH2	2.41	0.53
4:1C:55:LYS:C	44:EM:219:ILE:HG12	2.30	0.53
20:1J:152:LYS:CG	45:IH:227:HIS:ND1	2.71	0.53
20:1J:198:ARG:HA	44:IG:370:LYS:HD2	1.88	0.53
22:1L:545:GLU:OE1	44:BE:279:GLU:HG2	2.08	0.53
22:1L:870:ARG:CG	45:CB:357:PRO:HG2	2.38	0.53
13:1T:140:GLN:HA	44:MC:163:LYS:HZ2	1.74	0.53
15:1V:161:TYR:OH	44:MK:433:GLU:HB2	2.08	0.53
15:2V:73:ARG:HG3	45:LF:117:LEU:HD22	1.91	0.53
27:2W:248:GLN:CD	45:LN:276:ARG:HD2	2.29	0.53
28:3C:65:PHE:CD1	44:LA:32:PRO:HB2	2.43	0.53
15:3V:101:ILE:HG13	44:LA:416:GLY:CA	2.38	0.53
37:5D:44:SER:O	44:KK:262:TYR:OH	2.16	0.53
37:5D:117:PRO:HD2	44:NM:323:VAL:CG2	2.34	0.53
39:5K:25:VAL:HA	39:5K:28:LYS:HZ3	1.74	0.53
35:5R:33:LEU:HD22	45:LJ:94:GLN:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:111:TYR:CD2	35:5R:113:ILE:HD11	2.43	0.53
35:5R:527:ASP:O	35:5R:531:THR:HG23	2.09	0.53
36:5S:107:GLU:OE2	36:5S:145:PRO:HB3	2.09	0.53
41:6G:86:LYS:HE2	44:VI:283:HIS:CE1	2.44	0.53
41:6G:141:VAL:CG2	44:VG:308:ARG:HH22	2.22	0.53
35:6R:417:TYR:CE1	44:EM:372:MET:SD	3.01	0.53
35:7R:465:ILE:HA	45:FB:277:GLY:CA	2.38	0.53
42:8N:289:UNK:O	42:8N:293:UNK:N	2.42	0.53
44:AA:185:TYR:OH	44:AA:398:MET:HB3	2.09	0.53
45:AB:134:GLN:O	45:AB:135:ILE:HD13	2.09	0.53
44:AC:348:PRO:HD2	45:AF:388:MET:HE3	1.91	0.53
44:AC:426:ALA:O	44:AC:429:GLU:N	2.41	0.53
45:AD:257:LEU:O	45:AD:259:PRO:HD2	2.08	0.53
44:AI:5:ILE:HD11	44:AI:129:CYS:SG	2.48	0.53
44:AI:174:SER:CB	44:AI:207:GLU:HB2	2.38	0.53
45:AL:54:ALA:HA	45:BL:283:ALA:HB2	1.90	0.53
44:AM:407:TRP:CZ3	45:AN:255:VAL:HG22	2.44	0.53
45:AN:201:VAL:O	45:AN:202:ILE:HD13	2.08	0.53
44:BA:105:ARG:HG2	44:BA:411:GLU:OE1	2.09	0.53
44:BA:224:TYR:HB3	46:BA:501:GTP:O6	2.09	0.53
44:BC:325:PRO:HB3	45:BF:222:TYR:CE2	2.43	0.53
44:BE:99:ALA:CB	44:BE:145:THR:HG22	2.38	0.53
45:BF:146:GLY:O	45:BF:150:LEU:HD23	2.09	0.53
45:BH:329:GLN:O	45:BH:333:VAL:HG23	2.09	0.53
45:BJ:156:ARG:HG2	45:BJ:195:ASN:HD22	1.71	0.53
44:BK:176:GLN:HE21	45:BL:331:LEU:HD21	1.74	0.53
44:BM:3:GLU:OE2	44:BM:132:LEU:N	2.42	0.53
44:BM:214:ARG:O	44:BM:218:ASP:HA	2.09	0.53
45:BN:196:ALA:HB3	45:BN:264:HIS:HE1	1.74	0.53
44:CA:73:THR:HA	44:CA:76:ASP:OD2	2.08	0.53
45:CB:318:ARG:N	45:CB:364:ALA:O	2.39	0.53
45:CB:390:ARG:NH1	45:CB:391:ARG:HD3	2.24	0.53
44:CC:31:GLN:HB2	44:CC:32:PRO:HD2	1.90	0.53
44:CC:101:ASN:HA	44:CC:144:GLY:H	1.73	0.53
45:CD:345:ILE:HD11	44:CE:404:PHE:CZ	2.44	0.53
45:CD:399:THR:HA	45:CD:403:MET:O	2.08	0.53
45:CH:410:GLU:O	45:CH:413:SER:OG	2.14	0.53
45:CL:5:VAL:HG22	45:CL:6:HIS:N	2.23	0.53
45:CL:202:ILE:CG2	45:CL:300:MET:HE3	2.39	0.53
45:CL:202:ILE:HG21	45:CL:300:MET:HE3	1.90	0.53
45:CL:311:LEU:HA	45:CL:342:VAL:CG1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:190:SER:O	44:DA:194:LEU:HG	2.09	0.53
44:DC:88:HIS:O	44:DC:91:GLN:HG2	2.09	0.53
44:DC:316:SER:OG	44:DC:378:ILE:HB	2.09	0.53
45:DF:58:ARG:HG3	45:DF:86:ARG:NH2	2.24	0.53
44:DG:171:ILE:CD1	44:DG:204:LEU:HB2	2.39	0.53
45:DN:193:VAL:HA	45:DN:264:HIS:CE1	2.44	0.53
44:EA:313:MET:N	44:EA:381:SER:HA	2.23	0.53
45:EB:28:HIS:CE1	45:EB:241:ARG:HD2	2.44	0.53
44:EC:207:GLU:HB3	44:EC:304:LYS:HZ2	1.73	0.53
45:ED:67:ASP:HB2	45:ED:73:MET:HE2	1.91	0.53
45:ED:186:THR:O	45:ED:415:MET:HE1	2.09	0.53
44:EE:298:PRO:HG3	44:EE:308:ARG:CZ	2.38	0.53
45:EF:97:ALA:C	45:EF:103:LYS:HD2	2.30	0.53
45:EF:376:GLU:HA	45:EF:379:LYS:NZ	2.23	0.53
44:EI:321:GLY:O	44:EI:357:TYR:HA	2.09	0.53
45:EJ:113:ILE:CD1	45:EJ:154:LYS:HE2	2.36	0.53
45:EJ:268:ILE:CG2	45:EJ:368:VAL:HG22	2.39	0.53
44:EK:183:GLU:HG2	44:EK:184:PRO:HD3	1.91	0.53
44:EK:210:TYR:CE1	44:EK:227:LEU:HD11	2.38	0.53
45:EL:135:ILE:O	45:EL:166:THR:HA	2.08	0.53
45:EL:258:ILE:HB	44:EM:407:TRP:CH2	2.44	0.53
44:EM:172:TYR:O	44:EM:205:ASP:HA	2.08	0.53
44:EM:213:CYS:O	44:EM:217:LEU:N	2.42	0.53
44:FA:152:LEU:O	44:FA:156:ARG:HG2	2.09	0.53
45:FB:200:MET:HE3	45:FB:266:PHE:HD2	1.72	0.53
44:FC:1:MET:CE	45:FF:94:GLN:HG2	2.39	0.53
44:FC:223:THR:CB	45:FD:322:SER:HB2	2.38	0.53
44:FC:387:VAL:O	44:FC:391:LEU:HD13	2.09	0.53
44:FG:312:TYR:CE2	44:FG:341:ILE:HG23	2.44	0.53
44:FK:146:GLY:N	46:FK:501:GTP:O2G	2.38	0.53
44:FK:221:ARG:N	44:FK:222:PRO:HD3	2.24	0.53
44:FK:248:LEU:CD1	48:FN:501:GDP:H5''	2.33	0.53
45:FL:222:TYR:CD1	45:FL:225:LEU:HD12	2.44	0.53
45:FL:330:MET:CG	45:FL:349:ILE:HG21	2.39	0.53
44:FM:433:GLU:O	44:FM:437:ILE:HG23	2.09	0.53
45:GB:7:ILE:HG12	45:GB:64:ILE:HB	1.91	0.53
45:GB:399:THR:CA	45:GB:403:MET:HE3	2.39	0.53
44:GE:336:LYS:NZ	44:GE:336:LYS:HB3	2.22	0.53
45:GF:7:ILE:HD11	45:GF:120:VAL:HG23	1.89	0.53
45:GF:163:ILE:HG23	45:GF:251:ARG:HH21	1.73	0.53
45:GF:260:PHE:HB3	45:GF:261:PRO:HD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:172:TYR:HB3	44:GG:173:PRO:CD	2.38	0.53
45:GH:256:ASN:HD22	45:GH:350:LYS:HD2	1.74	0.53
45:GH:320:ARG:O	45:GH:321:MET:HB2	2.08	0.53
44:GI:288:VAL:HG11	44:GI:327:ASP:OD1	2.09	0.53
45:GJ:342:VAL:CG1	45:GJ:345:ILE:HG22	2.39	0.53
44:GK:325:PRO:CG	44:GK:355:ILE:HD13	2.38	0.53
45:GL:255:VAL:HG12	45:GL:256:ASN:ND2	2.24	0.53
44:GM:212:ILE:CD1	44:GM:300:ASN:HA	2.39	0.53
44:GM:288:VAL:O	44:GM:292:THR:HG23	2.08	0.53
45:GN:167:PHE:CE1	45:GN:200:MET:HG3	2.43	0.53
44:HA:243:ARG:HG3	44:HA:244:PHE:CD2	2.44	0.53
45:HB:51:TYR:CD1	45:HB:61:PRO:HD3	2.44	0.53
44:HC:2:ARG:O	44:HC:51:THR:HA	2.09	0.53
44:HC:177:VAL:HG22	45:HD:331:LEU:HD22	1.91	0.53
44:HC:251:ASP:H	44:HC:254:GLU:CG	2.22	0.53
45:HD:11:GLN:HB2	45:HD:72:THR:HG21	1.90	0.53
44:HE:191:THR:O	44:HE:194:LEU:HG	2.09	0.53
44:HE:346:TRP:CE3	44:HE:347:CYS:HB2	2.44	0.53
45:HF:134:GLN:O	45:HF:134:GLN:HG3	2.09	0.53
44:HG:55:GLU:HG3	44:HG:57:GLY:H	1.73	0.53
44:HG:224:TYR:HD1	44:HG:227:LEU:HD12	1.75	0.53
44:HG:320:ARG:HH12	44:HG:360:PRO:CB	2.22	0.53
45:HH:253:LEU:O	45:HH:257:LEU:HD13	2.09	0.53
45:HH:376:GLU:CG	45:HH:380:ARG:HH21	2.21	0.53
44:HI:407:TRP:HH2	45:HJ:254:ALA:CB	2.18	0.53
44:HK:207:GLU:HA	44:HK:207:GLU:OE1	2.09	0.53
45:HL:320:ARG:HB3	45:HL:320:ARG:CZ	2.39	0.53
44:HM:199:ASP:O	44:HM:266:HIS:HB2	2.08	0.53
44:HM:284:GLU:OE2	44:HM:285:GLN:HG2	2.08	0.53
45:HN:319:GLY:HA2	45:HN:357:PRO:CB	2.39	0.53
45:IB:153:SER:O	45:IB:157:GLU:N	2.42	0.53
45:IB:225:LEU:O	45:IB:229:VAL:HG23	2.09	0.53
44:IC:189:LEU:HD21	44:IC:418:PHE:CE1	2.44	0.53
44:IC:268:MET:HB3	44:IC:380:ASN:HB2	1.90	0.53
45:ID:182:PRO:O	45:ID:186:THR:OG1	2.18	0.53
45:ID:304:ASP:HB3	45:ID:307:HIS:CG	2.44	0.53
44:IE:328:VAL:HG11	44:IE:353:VAL:HG21	1.91	0.53
44:IE:371:VAL:HG12	44:IE:373:ARG:H	1.74	0.53
45:IF:6:HIS:O	45:IF:63:ALA:HA	2.09	0.53
45:IF:31:ASP:OD1	45:IF:32:PRO:HD2	2.09	0.53
45:IF:68:LEU:HD23	45:IF:97:ALA:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:291:ILE:HG13	44:IG:292:THR:N	2.24	0.53
45:IH:33:THR:OG1	45:IH:35:THR:HG22	2.08	0.53
45:IH:39:ASP:N	45:IH:43:GLN:OE1	2.36	0.53
45:IH:299:MET:CE	45:IH:305:PRO:HG3	2.39	0.53
45:IH:318:ARG:HD3	45:IH:358:PRO:CG	2.39	0.53
44:II:31:GLN:HG3	44:II:32:PRO:HD2	1.91	0.53
44:II:288:VAL:CA	44:II:291:ILE:HG12	2.34	0.53
45:IJ:317:PHE:HD2	45:IJ:321:MET:SD	2.31	0.53
44:IK:104:ALA:HB1	44:IK:411:GLU:HB2	1.90	0.53
44:IK:244:PHE:CE2	44:IK:358:GLN:HG2	2.43	0.53
45:IL:170:VAL:CG2	45:IL:171:PRO:HD2	2.38	0.53
44:IM:188:ILE:CG2	44:IM:425:LEU:HD11	2.34	0.53
45:IN:132:GLY:HA3	45:IN:163:ILE:O	2.09	0.53
45:IN:329:GLN:HA	45:IN:332:ASN:HB3	1.90	0.53
45:JB:11:GLN:HG3	45:JB:72:THR:CG2	2.38	0.53
45:JB:42:LEU:HD12	45:JB:243:PRO:CD	2.39	0.53
45:JB:166:THR:HG21	45:JB:196:ALA:HB1	1.89	0.53
45:JB:410:GLU:O	45:JB:413:SER:N	2.42	0.53
44:JE:392:ASP:O	44:JE:395:PHE:HB3	2.09	0.53
44:JE:421:ALA:O	44:JE:425:LEU:HD23	2.09	0.53
45:JF:186:THR:HG21	45:JF:385:PHE:CD2	2.44	0.53
45:JF:310:TYR:CE1	45:JF:371:SER:HB3	2.43	0.53
44:JG:244:PHE:CE2	44:JG:358:GLN:HG2	2.44	0.53
45:JJ:267:MET:HE2	45:JJ:374:ILE:HD13	1.90	0.53
44:JK:138:PHE:HE2	44:JK:235:ILE:HG13	1.73	0.53
44:JM:132:LEU:HD22	44:JM:164:LYS:HE3	1.91	0.53
45:JN:178:THR:HG22	45:JN:180:VAL:HG12	1.91	0.53
44:KA:145:THR:HG22	46:KA:501:GTP:O3B	2.09	0.53
44:KA:156:ARG:HG2	44:KA:156:ARG:HH11	1.74	0.53
44:KA:265:ILE:O	44:KA:265:ILE:HG23	2.09	0.53
45:KB:206:ALA:O	45:KB:210:ILE:HG13	2.09	0.53
45:KB:287:PRO:O	45:KB:290:THR:HG22	2.09	0.53
44:KC:272:TYR:CD2	44:KC:275:ILE:HD11	2.43	0.53
44:KC:404:PHE:CD1	45:KD:259:PRO:HA	2.44	0.53
45:KD:193:VAL:HA	45:KD:264:HIS:NE2	2.23	0.53
45:KD:326:VAL:O	45:KD:330:MET:HG2	2.09	0.53
44:KG:69:ASP:OD1	44:KG:70:LEU:N	2.42	0.53
44:KG:108:TYR:O	44:KG:112:LYS:HE2	2.08	0.53
44:KI:151:SER:HB3	44:KI:193:SER:OG	2.09	0.53
44:KK:118:CYS:O	44:KK:122:ILE:HG12	2.09	0.53
44:KK:204:LEU:HD22	44:KK:302:MET:CE	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:4:ILE:HD11	45:KL:50:TYR:CE1	2.44	0.53
45:KN:211:CYS:HA	45:KN:215:LEU:HD12	1.91	0.53
45:KN:269:GLY:HA2	45:KN:300:MET:CE	2.39	0.53
44:LA:37:PRO:O	44:LA:38:SER:HB2	2.08	0.53
44:LA:263:PRO:HD3	45:LD:396:HIS:CG	2.44	0.53
45:LB:296:ALA:HB1	45:LB:305:PRO:HD2	1.90	0.53
44:LC:118:CYS:SG	44:LC:153:LEU:HD11	2.49	0.53
45:LD:135:ILE:HB	45:LD:166:THR:HA	1.90	0.53
44:LG:2:ARG:CG	44:LG:242:LEU:HD22	2.39	0.53
44:LG:185:TYR:CZ	44:LG:398:MET:HE3	2.44	0.53
44:LG:273:ALA:HB3	44:LG:375:VAL:CG2	2.39	0.53
44:LG:285:GLN:HE22	44:LG:287:SER:CB	2.21	0.53
44:LI:417:GLU:O	44:LI:420:GLU:HG2	2.10	0.53
45:LJ:66:MET:HE2	45:LJ:147:MET:HG2	1.91	0.53
45:LJ:156:ARG:HD3	45:LJ:164:MET:HG3	1.90	0.53
45:LJ:238:CYS:SG	45:LJ:239:CYS:N	2.81	0.53
45:LJ:242:PHE:HE2	45:LJ:356:ILE:HG21	1.74	0.53
45:LJ:267:MET:CE	45:LJ:305:PRO:HB3	2.39	0.53
45:LN:2:ARG:HB2	45:LN:131:GLN:HG3	1.91	0.53
45:LN:19:LYS:HG3	45:LN:226:ASN:HB3	1.90	0.53
45:LN:379:LYS:O	45:LN:382:ALA:HB3	2.09	0.53
44:MA:209:ILE:HA	44:MA:212:ILE:HG22	1.90	0.53
44:MA:286:LEU:N	44:MA:290:GLU:OE2	2.42	0.53
45:MB:4:ILE:HD11	45:MB:50:TYR:CZ	2.44	0.53
45:MB:200:MET:HE2	45:MB:268:ILE:HG21	1.91	0.53
44:MC:402:ARG:O	44:MC:405:VAL:HG22	2.09	0.53
45:MD:113:ILE:CD1	45:MD:154:LYS:HE2	2.39	0.53
45:MD:234:SER:O	45:MD:238:CYS:HB3	2.09	0.53
44:ME:189:LEU:HD11	44:ME:418:PHE:CE1	2.41	0.53
45:MF:193:VAL:HA	45:MF:264:HIS:CE1	2.44	0.53
44:MG:5:ILE:HG22	44:MG:6:SER:N	2.23	0.53
44:MG:105:ARG:HG2	44:MG:411:GLU:CD	2.29	0.53
44:MI:144:GLY:HA2	44:MI:147:SER:OG	2.09	0.53
45:ML:49:VAL:CG2	45:ML:241:ARG:HG2	2.35	0.53
44:MM:105:ARG:O	44:MM:109:THR:HG22	2.09	0.53
44:NA:396:ASP:HB2	44:NA:422:ARG:HH22	1.73	0.53
45:NB:2:ARG:C	45:NB:131:GLN:HB2	2.29	0.53
45:NB:7:ILE:CD1	45:NB:64:ILE:HB	2.39	0.53
45:ND:99:ASN:C	45:ND:142:GLY:HA3	2.29	0.53
45:ND:105:HIS:O	45:ND:106:TYR:HD1	1.91	0.53
44:NE:21:TRP:CH2	44:NE:63:PRO:HB3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:223:THR:HG22	44:NE:224:TYR:H	1.72	0.53
45:NF:61:PRO:CD	45:NF:84:LEU:HB3	2.39	0.53
45:NF:113:ILE:HD11	45:NF:151:LEU:HA	1.90	0.53
45:NF:317:PHE:HB3	45:NF:321:MET:CE	2.39	0.53
44:NG:344:VAL:HG22	44:NG:345:ASP:N	2.24	0.53
44:NG:423:GLU:HA	44:NG:426:ALA:HB3	1.91	0.53
45:NH:174:LYS:HB2	45:NH:205:GLU:OE2	2.09	0.53
44:NI:217:LEU:HD22	44:NI:367:ASP:HB3	1.91	0.53
44:NI:247:ALA:O	45:NL:11:GLN:NE2	2.40	0.53
45:NJ:105:HIS:HD1	45:NJ:106:TYR:HE2	1.57	0.53
45:NJ:315:ALA:C	45:NJ:316:LEU:HD12	2.29	0.53
44:NK:305:CYS:SG	44:NK:384:ILE:HA	2.48	0.53
45:NL:398:TYR:HD1	45:NL:403:MET:HE1	1.73	0.53
45:OB:276:ARG:HA	45:OB:279:GLN:HG3	1.91	0.53
44:OC:88:HIS:CD2	44:OC:90:GLU:HB3	2.44	0.53
44:OC:265:ILE:HG23	44:OC:432:TYR:HE1	1.70	0.53
44:OC:270:SER:HB2	44:OC:378:ILE:HD13	1.90	0.53
45:OD:215:LEU:CB	45:OD:217:LEU:HD22	2.39	0.53
44:OE:181:VAL:HG12	45:OF:256:ASN:HD22	1.73	0.53
45:OF:284:LEU:HD11	45:OF:363:MET:CB	2.39	0.53
44:OG:420:GLU:O	44:OG:423:GLU:HG3	2.09	0.53
44:OI:89:PRO:HG2	44:PI:280:LYS:HG3	1.89	0.53
44:OI:104:ALA:HB2	44:OI:413:MET:CG	2.39	0.53
44:OI:170:THR:O	44:OI:171:ILE:HD13	2.09	0.53
44:OI:238:LEU:HG	44:OI:255:PHE:CE2	2.44	0.53
45:OJ:104:GLY:O	45:OJ:147:MET:N	2.41	0.53
45:OJ:186:THR:HG22	45:OJ:411:ALA:HB1	1.91	0.53
44:OK:74:VAL:CG2	44:OK:75:ILE:HD12	2.38	0.53
45:OL:86:ARG:HB3	45:OL:89:ASN:HD22	1.69	0.53
45:OL:173:PRO:HG3	45:OL:380:ARG:CD	2.39	0.53
44:OM:21:TRP:CZ2	44:OM:63:PRO:HB2	2.44	0.53
44:OM:216:ASN:O	44:OM:280:LYS:HD2	2.09	0.53
44:OM:345:ASP:HB2	44:OM:438:GLU:HG2	1.90	0.53
45:ON:328:GLU:O	45:ON:332:ASN:ND2	2.42	0.53
44:PA:131:GLY:O	44:PA:133:GLN:NE2	2.40	0.53
45:PB:139:LEU:CA	45:PB:145:SER:HB3	2.32	0.53
44:PC:278:ALA:N	44:PC:369:ALA:HB2	2.24	0.53
44:PE:392:ASP:OD2	44:PE:422:ARG:NH1	2.42	0.53
45:PF:170:VAL:HG13	45:PF:201:VAL:CG2	2.39	0.53
44:PG:268:MET:HB3	44:PG:380:ASN:CB	2.35	0.53
44:PG:272:TYR:HB3	44:PG:275:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:324:VAL:HG12	44:PG:326:LYS:HG3	1.91	0.53
45:PH:221:THR:HG23	45:PH:223:GLY:H	1.74	0.53
45:PH:253:LEU:HD21	45:PH:316:LEU:HD21	1.89	0.53
44:PI:287:SER:O	44:PI:290:GLU:HG2	2.09	0.53
45:PJ:242:PHE:HD2	45:PJ:356:ILE:HG13	1.72	0.53
44:PK:167:LEU:HD13	44:PK:252:ILE:CD1	2.39	0.53
44:PM:121:ARG:HH21	44:PM:124:LYS:HD2	1.73	0.53
44:PM:273:ALA:O	44:PM:374:ALA:HB1	2.08	0.53
44:PM:417:GLU:O	44:PM:420:GLU:HG2	2.09	0.53
45:QB:201:VAL:HG23	45:QB:301:CYS:SG	2.48	0.53
44:QC:123:ARG:HG2	44:QC:127:ASP:OD2	2.09	0.53
44:QC:151:SER:O	44:QC:155:GLU:HG3	2.09	0.53
45:QF:261:PRO:HG3	44:QG:406:HIS:ND1	2.24	0.53
45:QF:345:ILE:O	45:QF:345:ILE:HG23	2.08	0.53
44:QG:172:TYR:HB2	44:QG:203:MET:HE3	1.89	0.53
44:QG:185:TYR:O	44:QG:188:ILE:N	2.39	0.53
44:QI:60:LYS:HZ1	44:QI:86:LEU:HA	1.73	0.53
44:QK:296:PHE:CE2	44:QK:335:ILE:HG13	2.44	0.53
44:QK:363:VAL:HG23	44:QK:364:PRO:HD2	1.91	0.53
44:QK:386:GLU:HA	44:QK:389:SER:OG	2.09	0.53
45:QL:303:ALA:O	45:QL:305:PRO:HD3	2.09	0.53
44:QM:47:ASP:HB2	44:QM:49:PHE:HD1	1.74	0.53
45:QN:50:TYR:O	45:QN:62:ARG:HG2	2.09	0.53
44:RC:195:LEU:O	44:RC:266:HIS:NE2	2.35	0.53
45:RD:351:SER:HB2	44:RE:179:THR:CG2	2.35	0.53
45:RF:18:ALA:HB2	45:RF:76:VAL:HG23	1.91	0.53
45:RF:139:LEU:HD13	45:RF:168:SER:HB3	1.91	0.53
44:RG:247:ALA:O	45:RH:11:GLN:NE2	2.42	0.53
44:RI:154:LEU:HD22	44:RI:198:THR:OG1	2.09	0.53
45:RJ:19:LYS:HB3	45:RJ:230:SER:OG	2.09	0.53
45:RJ:172:SER:OG	45:RJ:175:VAL:HG22	2.09	0.53
44:RK:21:TRP:CE3	44:RK:21:TRP:HA	2.43	0.53
44:RK:250:VAL:CG2	44:RK:354:GLY:HA3	2.39	0.53
45:RL:165:GLU:OE2	45:RL:250:LEU:HD13	2.09	0.53
45:RN:28:HIS:HB2	45:RN:30:ILE:CD1	2.39	0.53
44:SA:51:THR:CG2	44:SA:243:ARG:HD3	2.32	0.53
44:SA:155:GLU:HA	44:SA:197:HIS:CE1	2.44	0.53
44:SA:288:VAL:HG21	44:SA:323:VAL:HG23	1.91	0.53
45:SB:28:HIS:ND1	45:SB:30:ILE:O	2.42	0.53
45:SB:258:ILE:HG13	45:SB:266:PHE:HZ	1.73	0.53
44:SC:210:TYR:HH	44:SC:224:TYR:HE1	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:54:ALA:HB1	45:TD:282:ARG:O	2.08	0.53
45:SD:268:ILE:HG22	45:SD:368:VAL:HG22	1.89	0.53
44:SE:89:PRO:HG2	44:TE:280:LYS:CE	2.34	0.53
44:SE:126:ALA:HA	44:SE:129:CYS:SG	2.49	0.53
44:SE:130:THR:HG23	44:SE:131:GLY:N	2.24	0.53
44:SE:171:ILE:HD13	46:SE:501:GTP:HN22	1.73	0.53
44:SE:260:VAL:HG13	44:SE:265:ILE:O	2.08	0.53
44:SE:326:LYS:HZ3	45:SF:212:PHE:HZ	1.57	0.53
44:SG:5:ILE:HG21	44:SG:122:ILE:HD12	1.91	0.53
45:SH:1:MET:HE1	45:SH:129:CYS:HB3	1.91	0.53
45:SH:97:ALA:CB	45:SH:143:THR:HA	2.40	0.53
44:SI:5:ILE:HG12	44:SI:125:LEU:HD23	1.91	0.53
45:SJ:309:ARG:HA	45:SJ:340:TYR:O	2.09	0.53
44:SK:328:VAL:CG1	44:SK:353:VAL:HG21	2.39	0.53
45:SL:10:GLY:O	45:SL:14:ASN:ND2	2.41	0.53
44:SM:11:GLN:HA	44:SM:14:ILE:CD1	2.37	0.53
45:SN:206:ALA:HB2	45:SN:301:CYS:HA	1.91	0.53
45:SN:317:PHE:CD1	45:SN:365:VAL:HG22	2.44	0.53
44:TA:9:VAL:HA	44:TA:68:LEU:CB	2.39	0.53
44:TA:14:ILE:HD11	44:TA:75:ILE:HD11	1.91	0.53
44:TA:182:VAL:HG22	44:TA:182:VAL:O	2.09	0.53
44:TA:304:LYS:HD2	44:TA:390:ARG:NH1	2.24	0.53
45:TB:21:TRP:CE3	45:TB:61:PRO:HB3	2.44	0.53
45:TB:131:GLN:O	45:TB:163:ILE:HG12	2.08	0.53
44:TC:259:LEU:HD13	44:TC:268:MET:CE	2.39	0.53
45:TD:236:VAL:HG22	45:TD:250:LEU:HD21	1.89	0.53
45:TD:374:ILE:HD12	45:TD:378:PHE:CE2	2.43	0.53
44:TE:2:ARG:HB2	44:TE:133:GLN:OE1	2.09	0.53
44:TE:124:LYS:O	44:TE:127:ASP:HB2	2.08	0.53
45:TF:104:GLY:HA3	45:TF:143:THR:HA	1.91	0.53
45:TF:344:TRP:CE3	45:TF:345:ILE:HB	2.44	0.53
44:TG:174:SER:HB3	44:TG:207:GLU:HB2	1.89	0.53
45:TH:130:LEU:HG	45:TH:132:GLY:N	2.24	0.53
45:TH:198:GLU:HA	45:TH:264:HIS:HB2	1.91	0.53
44:TI:370:LYS:HD3	44:TI:371:VAL:N	2.23	0.53
45:TJ:107:THR:CG2	45:TJ:401:GLU:HB3	2.36	0.53
44:TK:362:VAL:HB	44:TK:370:LYS:HB3	1.90	0.53
45:TL:193:VAL:HG23	45:TL:264:HIS:CE1	2.44	0.53
45:TL:324:LYS:O	45:TL:328:GLU:HG2	2.09	0.53
44:UA:3:GLU:O	44:UA:132:LEU:HA	2.09	0.53
44:UA:11:GLN:CD	44:UA:74:VAL:HG11	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:70:LEU:HD13	44:UA:110:ILE:CD1	2.39	0.53
44:UA:71:GLU:OE1	44:UA:73:THR:HB	2.09	0.53
44:UA:84:ARG:HD2	44:UA:84:ARG:O	2.09	0.53
44:UA:246:GLY:HA2	44:UA:356:ASN:HA	1.90	0.53
44:UA:274:PRO:HD3	44:UA:291:ILE:HD12	1.91	0.53
44:UC:230:LEU:HD11	44:UC:368:LEU:HG	1.90	0.53
45:UD:267:MET:HE2	45:UD:301:CYS:HB2	1.91	0.53
44:UE:91:GLN:HE21	44:UE:121:ARG:NH2	2.06	0.53
45:UF:330:MET:O	45:UF:334:GLN:HB2	2.09	0.53
44:UK:211:ASP:HB3	44:UK:215:ARG:HH12	1.72	0.53
44:UK:313:MET:HE1	44:UK:435:VAL:HG11	1.92	0.53
44:UK:326:LYS:O	44:UK:329:ASN:HB3	2.09	0.53
45:UL:132:GLY:HA2	45:UL:162:ARG:HB3	1.91	0.53
44:UM:100:ALA:HB3	44:UM:105:ARG:HD3	1.90	0.53
45:UN:318:ARG:HA	45:UN:354:CYS:HB3	1.91	0.53
45:UN:326:VAL:O	45:UN:330:MET:HG2	2.09	0.53
44:VA:133:GLN:HB3	44:VA:252:ILE:HG21	1.91	0.53
44:VE:214:ARG:HG2	44:VE:214:ARG:HH11	1.72	0.53
45:VF:68:LEU:HD23	45:VF:97:ALA:HA	1.91	0.53
45:VF:97:ALA:HB2	45:VF:143:THR:CB	2.39	0.53
45:VF:237:THR:HG23	45:VF:241:ARG:CZ	2.39	0.53
44:VG:103:PHE:CD2	44:VG:189:LEU:HD13	2.43	0.53
45:VH:180:VAL:O	45:VH:180:VAL:HG22	2.09	0.53
44:VI:229:ARG:CZ	44:VI:363:VAL:HG11	2.39	0.53
45:VJ:22:GLU:CG	45:VJ:81:PHE:HB2	2.37	0.53
45:VJ:305:PRO:HA	45:VJ:373:ALA:HB2	1.91	0.53
44:VK:318:MET:O	44:VK:375:VAL:HG23	2.09	0.53
44:VK:331:SER:O	44:VK:335:ILE:HG12	2.09	0.53
45:VL:137:HIS:O	45:VL:168:SER:HA	2.08	0.53
45:VL:317:PHE:O	45:VL:353:ILE:HA	2.09	0.53
45:VN:28:HIS:HB3	45:VN:30:ILE:CD1	2.39	0.53
45:VN:139:LEU:HD13	45:VN:168:SER:HB3	1.90	0.53
45:VN:256:ASN:C	45:VN:257:LEU:HD12	2.30	0.53
45:VN:303:ALA:HB1	45:VN:373:ALA:O	2.08	0.53
44:WA:222:PRO:O	45:WB:324:LYS:HG2	2.09	0.53
45:WB:289:LEU:HD13	45:WB:365:VAL:HG23	1.91	0.53
45:WF:105:HIS:NE2	45:WF:150:LEU:HB2	2.24	0.53
44:WG:287:SER:OG	44:WG:290:GLU:HG2	2.09	0.53
45:WH:284:LEU:O	45:WH:285:THR:OG1	2.24	0.53
45:WH:304:ASP:OD1	45:WH:306:ARG:HG2	2.09	0.53
44:WI:141:VAL:HG11	44:WI:172:TYR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:278:ALA:HB2	44:WI:369:ALA:CB	2.38	0.53
44:WK:111:GLY:O	44:WK:115:VAL:HG12	2.09	0.53
44:WK:317:MET:HB2	44:WK:377:MET:HB2	1.90	0.53
45:WN:3:GLU:HB2	45:WN:62:ARG:HH22	1.74	0.53
45:WN:12:CYS:SG	45:WN:138:SER:HB2	2.48	0.53
1:6H:266:LYS:HZ1	44:FE:363:VAL:HG23	1.74	0.52
1:6H:329:LEU:HD23	45:FJ:361:LEU:CD1	1.74	0.52
2:0A:143:HIS:CG	44:AA:32:PRO:HG3	2.43	0.52
5:0D:187:PHE:HA	44:FA:221:ARG:HD2	1.90	0.52
10:0N:245:LYS:CD	44:KK:245:ASP:HB3	2.39	0.52
4:1C:55:LYS:N	44:EM:221:ARG:O	2.42	0.52
20:1J:77:TYR:OH	44:IC:278:ALA:HB1	2.09	0.52
22:1L:308:ARG:NH2	44:BG:367:ASP:OD1	2.40	0.52
24:1O:156:ARG:CZ	44:UE:370:LYS:HG2	2.38	0.52
15:1V:156:LEU:HD21	44:MK:386:GLU:OE2	2.07	0.52
28:2C:14:ARG:NH2	45:LJ:320:ARG:HH22	1.99	0.52
5:2D:190:THR:O	44:FI:219:ILE:HD13	2.09	0.52
2:3A:125:LEU:HB2	45:AN:276:ARG:HH12	1.74	0.52
31:3H:196:SER:CA	45:AH:42:LEU:HD13	2.37	0.52
15:3V:119:ILE:CG2	45:LD:390:ARG:HH12	2.19	0.52
37:5D:40:VAL:HG23	44:KK:313:MET:SD	2.49	0.52
39:5J:48:LEU:HD21	44:JE:430:LYS:HE3	1.91	0.52
35:5R:578:TYR:CE2	35:5R:580:LEU:HG	2.44	0.52
36:5S:87:ILE:HD11	36:5S:126:GLU:OE1	2.09	0.52
40:6F:134:PHE:O	40:6F:136:ARG:N	2.42	0.52
35:7R:416:MET:O	35:7R:420:ASP:HB2	2.09	0.52
35:7R:469:LYS:CG	45:EB:78:ALA:HB2	2.34	0.52
43:8R:98:UNK:O	43:8R:102:UNK:N	2.42	0.52
45:AB:66:MET:HE1	45:AB:116:VAL:HG21	1.91	0.52
45:AB:390:ARG:HG3	45:AB:391:ARG:N	2.24	0.52
44:AC:53:PHE:O	44:AC:64:ARG:NH2	2.41	0.52
45:AD:318:ARG:HE	45:AD:358:PRO:HD3	1.75	0.52
44:AE:145:THR:O	44:AE:149:LEU:HB2	2.09	0.52
44:AE:181:VAL:HG12	45:AF:256:ASN:HB3	1.89	0.52
44:AE:205:ASP:OD2	44:AE:303:ALA:HB1	2.09	0.52
44:AE:221:ARG:CD	45:AF:322:SER:HB3	2.38	0.52
45:AF:215:LEU:HD13	45:AF:217:LEU:HD23	1.92	0.52
44:AG:51:THR:OG1	44:AG:243:ARG:HB3	2.08	0.52
44:AG:217:LEU:HD21	44:AG:275:ILE:CG2	2.39	0.52
44:AI:63:PRO:CG	44:AI:86:LEU:HG	2.39	0.52
44:AI:256:GLN:O	45:AL:397:TRP:CE2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AL:19:LYS:HG2	45:AL:226:ASN:HB3	1.90	0.52
45:AL:116:VAL:O	45:AL:120:VAL:HG12	2.08	0.52
45:AL:173:PRO:HG3	45:AL:380:ARG:HD3	1.91	0.52
45:AN:156:ARG:NH1	45:AN:162:ARG:O	2.42	0.52
45:BB:207:LEU:HB3	45:BB:225:LEU:HD22	1.89	0.52
45:BB:222:TYR:O	45:BB:226:ASN:ND2	2.28	0.52
44:BC:132:LEU:HD21	44:BC:135:PHE:HE2	1.75	0.52
44:BC:223:THR:HG23	44:BC:225:THR:H	1.74	0.52
44:BC:383:ALA:O	44:BC:386:GLU:HG2	2.09	0.52
45:BD:186:THR:HG22	45:BD:381:VAL:HG12	1.90	0.52
45:BD:285:THR:O	45:BD:289:LEU:HG	2.09	0.52
45:BD:390:ARG:CZ	45:BD:391:ARG:HG2	2.39	0.52
45:BF:116:VAL:O	45:BF:119:VAL:HG12	2.08	0.52
45:BF:201:VAL:C	45:BF:202:ILE:HD12	2.30	0.52
44:BG:49:PHE:HE2	44:BG:55:GLU:HB2	1.74	0.52
45:BH:256:ASN:C	45:BH:257:LEU:HD22	2.30	0.52
45:BH:325:GLU:O	45:BH:329:GLN:HB2	2.08	0.52
44:BI:23:LEU:HD21	44:BI:236:SER:HB2	1.90	0.52
45:BJ:8:GLN:O	45:BJ:66:MET:HG2	2.09	0.52
45:BJ:101:TRP:HD1	45:BJ:145:SER:OG	1.92	0.52
44:BK:230:LEU:CD1	44:BK:275:ILE:HD13	2.39	0.52
44:BK:268:MET:HG3	44:BK:378:ILE:HG22	1.89	0.52
44:BM:98:ASP:OD1	44:BM:99:ALA:N	2.42	0.52
44:BM:308:ARG:NH1	44:BM:340:THR:O	2.40	0.52
44:CA:132:LEU:HD22	44:CA:164:LYS:HE3	1.90	0.52
45:CB:73:MET:HE3	45:CB:91:VAL:O	2.09	0.52
45:CB:268:ILE:CG2	45:CB:368:VAL:HG12	2.36	0.52
44:CC:23:LEU:O	44:CC:27:GLU:HB2	2.08	0.52
44:CC:141:VAL:O	44:CC:141:VAL:HG22	2.08	0.52
44:CC:167:LEU:HA	44:CC:200:VAL:O	2.09	0.52
45:CD:99:ASN:C	45:CD:142:GLY:HA3	2.30	0.52
44:CG:251:ASP:HB2	44:CG:254:GLU:HG3	1.91	0.52
45:CJ:6:HIS:CD2	45:CJ:21:TRP:HE1	2.27	0.52
45:CJ:238:CYS:SG	45:CJ:318:ARG:NE	2.82	0.52
45:CJ:374:ILE:HG22	45:CJ:422:TYR:OH	2.09	0.52
45:CL:91:VAL:HG12	45:CL:92:PHE:N	2.25	0.52
44:CM:270:SER:O	44:CM:302:MET:HB2	2.09	0.52
45:CN:200:MET:HE1	45:CN:268:ILE:HD13	1.90	0.52
45:CN:232:ALA:HA	45:CN:270:PHE:HB2	1.91	0.52
44:DA:183:GLU:N	44:DA:184:PRO:HD2	2.24	0.52
45:DB:213:ARG:NH1	45:DB:297:LYS:HD2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:401:LYS:O	44:DC:402:ARG:HG2	2.09	0.52
44:DE:13:GLY:HA2	44:DE:16:VAL:CG2	2.39	0.52
44:DE:25:CYS:SG	44:DE:30:ILE:HD11	2.49	0.52
44:DE:288:VAL:O	44:DE:291:ILE:HG12	2.08	0.52
45:DF:135:ILE:HG13	45:DF:152:ILE:CD1	2.35	0.52
45:DF:207:LEU:HB3	45:DF:225:LEU:CD2	2.33	0.52
45:DF:236:VAL:HG12	45:DF:250:LEU:CD2	2.39	0.52
45:DF:319:GLY:CA	45:DF:357:PRO:HB3	2.38	0.52
45:DH:352:SER:O	45:DH:353:ILE:HD13	2.09	0.52
45:DJ:174:LYS:CD	45:DJ:175:VAL:HG13	2.39	0.52
45:DJ:263:LEU:HG	45:DJ:422:TYR:CD1	2.41	0.52
44:DK:2:ARG:HD2	44:DK:242:LEU:O	2.09	0.52
45:DL:289:LEU:HD11	45:DL:363:MET:HB2	1.90	0.52
44:DM:67:PHE:C	44:DM:68:LEU:HD12	2.28	0.52
44:DM:288:VAL:HG13	44:DM:289:ALA:N	2.24	0.52
44:DM:439:THR:HG21	45:DN:390:ARG:HD2	1.91	0.52
44:EA:274:PRO:CD	44:EA:291:ILE:HB	2.39	0.52
45:EB:295:ASP:OD1	45:EB:297:LYS:HG2	2.09	0.52
44:EC:20:CYS:HA	44:EC:232:ALA:CB	2.40	0.52
45:ED:100:ASN:ND2	45:ED:103:LYS:H	2.07	0.52
45:ED:187:LEU:HD11	45:ED:408:PHE:CZ	2.44	0.52
45:ED:348:ASN:O	45:ED:349:ILE:HD13	2.10	0.52
44:EE:66:VAL:HG22	44:EE:68:LEU:CD1	2.39	0.52
44:EE:70:LEU:HD11	44:EE:149:LEU:HD23	1.91	0.52
44:EE:272:TYR:HD1	44:EE:376:CYS:HB2	1.73	0.52
44:EE:288:VAL:O	44:EE:291:ILE:HG12	2.08	0.52
45:EF:234:SER:O	45:EF:238:CYS:N	2.42	0.52
45:EF:275:SER:OG	45:EF:278:SER:HB3	2.09	0.52
44:EG:4:VAL:HG23	44:EG:134:GLY:O	2.09	0.52
44:EG:122:ILE:HG22	44:EG:161:TYR:OH	2.09	0.52
45:EH:28:HIS:NE2	45:EH:241:ARG:HD2	2.24	0.52
44:EI:215:ARG:NH2	44:EI:300:ASN:HA	2.23	0.52
45:EJ:268:ILE:HG13	45:EJ:300:MET:CE	2.39	0.52
44:EM:205:ASP:OD1	44:EM:205:ASP:N	2.40	0.52
44:EM:325:PRO:HG2	45:EN:222:TYR:CE2	2.43	0.52
45:EN:22:GLU:HG2	45:EN:81:PHE:CD1	2.44	0.52
45:EN:106:TYR:HE2	45:EN:403:MET:HG2	1.71	0.52
44:FA:5:ILE:HD11	44:FA:129:CYS:SG	2.48	0.52
44:FA:259:LEU:O	44:FA:261:PRO:HD3	2.09	0.52
44:FA:291:ILE:O	44:FA:294:SER:OG	2.23	0.52
45:FB:385:PHE:O	45:FB:389:PHE:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:420:SER:CA	45:FB:423:GLN:HG3	2.39	0.52
45:FD:54:ALA:HA	45:GD:283:ALA:HB2	1.91	0.52
45:FD:235:GLY:HA3	45:FD:366:THR:HG21	1.90	0.52
45:FD:286:VAL:O	45:FD:289:LEU:N	2.41	0.52
44:FG:226:ASN:O	44:FG:230:LEU:HD23	2.10	0.52
45:FL:3:GLU:C	45:FL:4:ILE:HD12	2.30	0.52
44:FM:171:ILE:HG12	44:FM:204:LEU:O	2.09	0.52
44:FM:291:ILE:HG13	44:FM:292:THR:N	2.23	0.52
45:FN:67:ASP:OD1	45:FN:143:THR:HG21	2.08	0.52
44:GA:72:PRO:O	44:GA:75:ILE:N	2.42	0.52
44:GA:280:LYS:HA	44:GA:283:HIS:CD2	2.36	0.52
44:GA:390:ARG:HG3	44:GA:391:LEU:N	2.24	0.52
45:GB:290:THR:HG21	45:GB:329:GLN:HG3	1.90	0.52
44:GC:49:PHE:O	44:GC:53:PHE:HB2	2.09	0.52
45:GD:176:SER:HB2	45:GD:181:GLU:OE1	2.09	0.52
44:GE:6:SER:C	44:GE:7:ILE:HD13	2.29	0.52
44:GE:270:SER:CB	44:GE:378:ILE:HD13	2.39	0.52
45:GF:40:SER:OG	45:GF:43:GLN:HG3	2.09	0.52
45:GF:314:SER:HB3	45:GF:368:VAL:CG1	2.37	0.52
44:GG:153:LEU:O	44:GG:157:LEU:HG	2.10	0.52
44:GG:427:ALA:HA	44:GG:430:LYS:HB3	1.91	0.52
45:GH:311:LEU:HD23	45:GH:372:THR:HG23	1.90	0.52
44:GI:115:VAL:O	44:GI:119:LEU:HD23	2.08	0.52
44:GI:263:PRO:HB2	44:GI:264:ARG:NH2	2.24	0.52
45:GJ:296:ALA:HA	45:GJ:299:MET:HE1	1.91	0.52
44:GK:269:LEU:HD13	44:GK:305:CYS:SG	2.49	0.52
44:GK:310:GLY:HA3	44:GK:383:ALA:HB2	1.91	0.52
44:GK:320:ARG:HG2	44:GK:358:GLN:O	2.09	0.52
45:GL:404:ASP:HB2	45:GL:406:MET:HE1	1.91	0.52
44:GM:393:HIS:O	44:GM:397:LEU:HG	2.09	0.52
44:HA:319:TYR:CE2	44:HA:328:VAL:HG22	2.44	0.52
44:HA:348:PRO:CD	45:HD:388:MET:CE	2.87	0.52
45:HD:113:ILE:HD13	45:HD:150:LEU:CD2	2.39	0.52
45:HD:295:ASP:OD1	45:HD:297:LYS:HG2	2.09	0.52
45:HD:326:VAL:O	45:HD:330:MET:HG2	2.09	0.52
45:HD:418:LEU:O	45:HD:422:TYR:HB2	2.08	0.52
44:HE:99:ALA:O	44:HE:105:ARG:HD3	2.09	0.52
44:HE:113:GLU:O	44:HE:114:ILE:HD13	2.09	0.52
45:HF:107:THR:HG23	45:HF:108:GLU:H	1.73	0.52
45:HF:217:LEU:HD11	45:HF:220:PRO:HG3	1.91	0.52
45:HF:304:ASP:OD1	45:HF:305:PRO:HD2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HG:11:GLN:NE2	45:HH:246:LEU:HA	2.23	0.52
45:HH:61:PRO:CD	45:HH:84:LEU:HB3	2.38	0.52
45:HH:62:ARG:NH1	45:HH:127:CYS:HB3	2.22	0.52
45:HH:101:TRP:HE3	45:HH:187:LEU:HD13	1.72	0.52
44:HI:161:TYR:O	44:HI:164:LYS:NZ	2.35	0.52
44:HK:261:PRO:HA	45:HN:394:PHE:CE2	2.44	0.52
45:HL:173:PRO:CG	45:HL:380:ARG:HD3	2.35	0.52
45:HL:265:PHE:CD2	45:HL:378:PHE:HZ	2.27	0.52
45:HL:330:MET:HE3	45:HL:333:VAL:HG11	1.91	0.52
44:HM:278:ALA:HA	44:HM:281:ALA:HB2	1.91	0.52
45:HN:232:ALA:HB1	45:HN:268:ILE:HD12	1.91	0.52
45:HN:318:ARG:HB3	45:HN:358:PRO:HD3	1.90	0.52
44:IA:24:PHE:HA	44:IA:27:GLU:CG	2.39	0.52
44:IE:210:TYR:CZ	44:IE:227:LEU:HD11	2.44	0.52
45:IH:47:ILE:HG13	45:IH:47:ILE:O	2.10	0.52
45:IH:134:GLN:HA	45:IH:165:GLU:O	2.08	0.52
45:IJ:167:PHE:HD2	45:IJ:233:MET:HG2	1.72	0.52
45:IJ:345:ILE:O	45:IJ:345:ILE:CG2	2.56	0.52
44:IM:144:GLY:N	46:IM:501:GTP:O3B	2.42	0.52
44:IM:330:ALA:HA	44:IM:333:ALA:CB	2.39	0.52
45:IN:148:GLY:O	45:IN:152:ILE:HG12	2.10	0.52
44:JA:244:PHE:CD1	44:JA:358:GLN:HG2	2.45	0.52
45:JB:6:HIS:HE1	45:JB:136:THR:HG23	1.75	0.52
45:JB:6:HIS:ND1	45:JB:134:GLN:O	2.42	0.52
45:JB:288:GLU:O	45:JB:291:GLN:HB3	2.07	0.52
44:JC:268:MET:HE2	44:JC:378:ILE:O	2.09	0.52
45:JD:135:ILE:HG13	45:JD:152:ILE:CD1	2.24	0.52
44:JE:268:MET:HB3	44:JE:380:ASN:CB	2.36	0.52
45:JF:203:ASP:OD2	45:JF:302:ALA:N	2.33	0.52
45:JF:285:THR:HA	45:JF:363:MET:HE1	1.91	0.52
44:JG:187:SER:HB3	44:JG:391:LEU:HD21	1.91	0.52
45:JJ:141:GLY:HA3	48:JJ:501:GDP:O3A	2.10	0.52
45:JJ:202:ILE:HD11	45:JJ:268:ILE:HD11	1.90	0.52
45:JJ:273:LEU:H	45:JJ:292:GLN:NE2	2.06	0.52
45:JJ:423:GLN:NE2	45:JJ:427:ASP:OD2	2.41	0.52
45:JL:20:PHE:CE1	45:JL:24:ILE:HD11	2.44	0.52
45:JL:232:ALA:HB1	45:JL:268:ILE:HD12	1.91	0.52
45:JN:404:ASP:HB3	45:JN:406:MET:HE2	1.91	0.52
44:KA:288:VAL:O	44:KA:292:THR:HG22	2.08	0.52
45:KB:36:TYR:CZ	45:KB:38:GLY:HA3	2.44	0.52
44:KC:260:VAL:HG21	45:KF:397:TRP:CZ2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:14:ILE:HD13	44:KE:75:ILE:HG13	1.91	0.52
44:KE:401:LYS:HD2	45:KF:344:TRP:CE3	2.44	0.52
45:KN:221:THR:O	45:KN:224:ASP:N	2.30	0.52
45:KN:268:ILE:O	45:KN:300:MET:HE2	2.08	0.52
44:LA:301:MET:HE2	44:LA:301:MET:HA	1.91	0.52
45:LB:379:LYS:HG3	45:LB:419:VAL:CG1	2.39	0.52
44:LE:33:ASP:HB3	44:LE:35:GLN:OE1	2.10	0.52
44:LE:265:ILE:HG22	44:LE:380:ASN:HD21	1.72	0.52
45:LF:99:ASN:CA	45:LF:142:GLY:HA3	2.35	0.52
45:LF:389:PHE:HE1	45:LF:395:LEU:HD13	1.74	0.52
44:LI:11:GLN:HB3	46:LI:501:GTP:PA	2.48	0.52
44:LI:93:ILE:HD12	44:LI:93:ILE:H	1.74	0.52
44:LK:256:GLN:O	45:LN:397:TRP:HZ2	1.92	0.52
45:LL:267:MET:HG3	45:LL:299:MET:HE2	1.91	0.52
45:LN:256:ASN:HD22	45:LN:350:LYS:HD2	1.72	0.52
44:MA:288:VAL:CA	44:MA:291:ILE:HG12	2.37	0.52
45:MD:396:HIS:HA	45:MD:399:THR:CG2	2.39	0.52
44:ME:212:ILE:HD11	44:ME:300:ASN:HA	1.91	0.52
45:MF:53:GLU:OE2	45:MF:57:GLY:HA2	2.09	0.52
45:MH:112:LEU:O	45:MH:112:LEU:HD23	2.09	0.52
45:MH:204:ASN:ND2	48:MH:501:GDP:O2'	2.38	0.52
45:MH:215:LEU:HD21	45:MH:273:LEU:HB3	1.91	0.52
45:MJ:210:ILE:HG23	45:MJ:214:THR:CG2	2.38	0.52
45:MJ:240:LEU:HD23	45:MJ:240:LEU:O	2.08	0.52
45:MJ:295:ASP:OD2	45:MJ:297:LYS:NZ	2.39	0.52
44:MK:134:GLY:HA3	44:MK:165:SER:OG	2.10	0.52
45:ML:7:ILE:CG1	45:ML:135:ILE:HG13	2.39	0.52
45:MN:6:HIS:HD2	45:MN:134:GLN:O	1.92	0.52
44:NA:102:ASN:OD1	44:NA:105:ARG:N	2.36	0.52
44:NA:106:GLY:O	44:NA:149:LEU:HD22	2.08	0.52
44:NA:115:VAL:HG21	44:NA:152:LEU:HD22	1.89	0.52
45:NB:22:GLU:HA	45:NB:81:PHE:CD2	2.45	0.52
45:NB:310:TYR:HA	45:NB:371:SER:HG	1.73	0.52
44:NC:213:CYS:O	44:NC:217:LEU:HB2	2.09	0.52
44:NC:298:PRO:O	44:NC:301:MET:HE1	2.09	0.52
44:NE:434:GLU:HG3	44:NE:435:VAL:N	2.23	0.52
45:NF:186:THR:HG23	45:NF:415:MET:CE	2.39	0.52
44:NG:145:THR:HG21	46:NG:501:GTP:O3G	2.09	0.52
45:NH:130:LEU:HD23	45:NH:131:GLN:N	2.24	0.52
44:NI:235:ILE:O	44:NI:239:THR:HG22	2.09	0.52
45:NJ:210:ILE:HD12	45:NJ:300:MET:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:88:HIS:CE1	44:NK:90:GLU:HB3	2.44	0.52
44:NK:118:CYS:O	44:NK:122:ILE:HG12	2.10	0.52
44:NK:288:VAL:O	44:NK:291:ILE:HG12	2.09	0.52
45:NL:25:SER:O	45:NL:29:GLY:N	2.42	0.52
45:NL:31:ASP:OD2	45:NL:35:THR:HB	2.09	0.52
45:NL:252:LYS:O	45:NL:256:ASN:ND2	2.42	0.52
45:NN:242:PHE:HD2	45:NN:356:ILE:HB	1.74	0.52
44:OA:276:ILE:HG13	44:OA:280:LYS:NZ	2.24	0.52
45:OB:49:VAL:HG11	45:OB:240:LEU:CD2	2.37	0.52
45:OB:135:ILE:HG13	45:OB:152:ILE:CD1	2.36	0.52
44:OC:4:VAL:HG21	44:OC:52:PHE:CE1	2.44	0.52
45:OD:201:VAL:HG22	45:OD:202:ILE:N	2.24	0.52
45:OD:309:ARG:HA	45:OD:340:TYR:O	2.09	0.52
44:OG:60:LYS:HD3	44:PG:283:HIS:HE1	1.74	0.52
44:OG:64:ARG:NH1	44:OG:129:CYS:SG	2.81	0.52
44:OG:311:LYS:HE3	44:OG:342:GLN:NE2	2.23	0.52
45:OH:107:THR:HG21	45:OH:401:GLU:HB3	1.90	0.52
45:OH:295:ASP:OD1	45:OH:296:ALA:N	2.41	0.52
45:OJ:169:VAL:HG22	45:OJ:202:ILE:CB	2.33	0.52
44:OK:141:VAL:CG1	44:OK:172:TYR:HD1	2.20	0.52
45:OL:5:VAL:O	45:OL:134:GLN:HG2	2.10	0.52
44:OM:1:MET:O	44:OM:131:GLY:HA3	2.09	0.52
45:ON:262:ARG:HH22	45:ON:418:LEU:HA	1.74	0.52
45:ON:371:SER:O	45:ON:422:TYR:OH	2.18	0.52
45:PB:140:GLY:HA2	45:PB:181:GLU:HG2	1.92	0.52
44:PC:119:LEU:HD21	44:PC:156:ARG:HD2	1.89	0.52
45:PD:5:VAL:HG21	45:PD:159:TYR:CD2	2.44	0.52
45:PD:68:LEU:HG	45:PD:96:GLY:N	2.23	0.52
45:PD:153:SER:HA	45:PD:195:ASN:OD1	2.09	0.52
45:PD:304:ASP:OD1	45:PD:306:ARG:HG2	2.09	0.52
44:PE:248:LEU:CG	44:PE:354:GLY:HA2	2.39	0.52
44:PE:325:PRO:HA	44:PE:328:VAL:CG2	2.38	0.52
45:PF:21:TRP:HE1	45:PF:61:PRO:HG2	1.74	0.52
45:PF:86:ARG:HE	45:PF:87:PRO:HD3	1.72	0.52
45:PF:87:PRO:O	45:PF:90:PHE:N	2.40	0.52
45:PH:139:LEU:HG	45:PH:188:SER:OG	2.09	0.52
44:PI:9:VAL:CG1	44:PI:139:ASN:HB3	2.39	0.52
45:PJ:170:VAL:HG23	45:PJ:171:PRO:HD2	1.91	0.52
45:PJ:182:PRO:HB3	45:PJ:385:PHE:N	2.24	0.52
45:PJ:253:LEU:O	45:PJ:257:LEU:HD13	2.08	0.52
45:PJ:310:TYR:HA	45:PJ:371:SER:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:211:CYS:SG	45:PL:215:LEU:HD12	2.49	0.52
45:PN:264:HIS:O	45:PN:265:PHE:HD1	1.91	0.52
45:PN:292:GLN:OE1	45:PN:292:GLN:HA	2.09	0.52
44:QA:275:ILE:HG23	44:QA:368:LEU:HD11	1.90	0.52
45:QB:113:ILE:HA	45:QB:116:VAL:HG12	1.91	0.52
44:QC:166:LYS:HG3	44:QC:199:ASP:H	1.73	0.52
44:QC:319:TYR:CD2	44:QC:323:VAL:HG11	2.43	0.52
45:QD:232:ALA:HB1	45:QD:268:ILE:HD12	1.89	0.52
45:QD:246:LEU:CD1	45:QD:353:ILE:HD13	2.29	0.52
45:QD:251:ARG:O	45:QD:255:VAL:HG23	2.09	0.52
44:QE:276:ILE:HD11	44:QE:281:ALA:HA	1.88	0.52
45:QH:404:ASP:HB2	45:QH:406:MET:HE1	1.91	0.52
44:QK:270:SER:CB	44:QK:378:ILE:HD13	2.39	0.52
45:QL:21:TRP:HA	45:QL:24:ILE:CG2	2.39	0.52
45:QL:130:LEU:CD2	45:QL:162:ARG:HG3	2.39	0.52
45:RB:294:PHE:CE2	45:RB:333:VAL:HG11	2.44	0.52
44:RC:93:ILE:HD12	44:RC:93:ILE:H	1.73	0.52
45:RD:222:TYR:HB3	48:RD:501:GDP:O6	2.09	0.52
44:RE:51:THR:HG21	44:RE:242:LEU:HB3	1.90	0.52
44:RE:280:LYS:HD3	44:RE:283:HIS:CE1	2.44	0.52
44:RE:316:SER:HB3	44:RE:352:LYS:NZ	2.24	0.52
45:RF:286:VAL:HG22	45:RF:321:MET:SD	2.49	0.52
44:RG:209:ILE:HG12	44:RG:302:MET:HE1	1.88	0.52
45:RH:139:LEU:CB	45:RH:170:VAL:HG12	2.39	0.52
44:RI:135:PHE:CB	44:RI:166:LYS:HG2	2.35	0.52
45:RJ:192:LEU:HD12	45:RJ:196:ALA:HB2	1.92	0.52
44:RK:183:GLU:N	44:RK:184:PRO:HD2	2.23	0.52
44:RK:289:ALA:HA	44:RK:292:THR:CG2	2.39	0.52
45:RL:46:ARG:NH2	44:RM:72:PRO:HB2	2.24	0.52
45:RL:258:ILE:HB	44:RM:407:TRP:HH2	1.71	0.52
45:RL:378:PHE:HB3	45:RL:419:VAL:CG2	2.38	0.52
44:RM:291:ILE:HG13	44:RM:292:THR:H	1.73	0.52
44:SA:250:VAL:HG21	44:SA:352:LYS:HE3	1.91	0.52
44:SA:270:SER:O	44:SA:302:MET:HE2	2.09	0.52
45:SB:238:CYS:HB2	45:SB:318:ARG:NE	2.23	0.52
44:SC:66:VAL:O	44:SC:66:VAL:HG13	2.08	0.52
44:SC:215:ARG:NH2	44:SC:299:ALA:HB1	2.24	0.52
45:SD:303:ALA:HB2	45:SD:377:MET:CE	2.39	0.52
44:SG:157:LEU:HD13	44:SG:166:LYS:HZ2	1.73	0.52
45:SH:10:GLY:O	45:SH:13:GLY:N	2.42	0.52
45:SH:24:ILE:HG22	45:SH:51:TYR:HE2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:150:LEU:O	45:SH:150:LEU:HD23	2.09	0.52
45:SJ:1:MET:SD	45:SJ:2:ARG:N	2.82	0.52
45:SJ:20:PHE:O	45:SJ:23:VAL:HG12	2.09	0.52
45:SJ:204:ASN:ND2	48:SJ:501:GDP:O2'	2.42	0.52
45:SJ:372:THR:HA	45:SJ:422:TYR:CE2	2.44	0.52
44:SK:237:SER:HG	44:SK:320:ARG:HH11	1.48	0.52
44:SM:377:MET:SD	44:SM:377:MET:N	2.82	0.52
44:TA:260:VAL:HG13	44:TA:266:HIS:CA	2.38	0.52
45:TB:292:GLN:HG3	45:TB:298:ASN:HD22	1.74	0.52
44:TC:30:ILE:HD13	44:TC:53:PHE:CE2	2.44	0.52
44:TC:221:ARG:HH12	44:TC:223:THR:HB	1.74	0.52
45:TD:286:VAL:O	45:TD:289:LEU:HB2	2.09	0.52
45:TD:420:SER:HA	45:TD:423:GLN:CG	2.39	0.52
45:TF:165:GLU:OE2	45:TF:250:LEU:HD13	2.09	0.52
45:TH:34:GLY:O	45:TH:58:ARG:HA	2.09	0.52
45:TH:390:ARG:HG3	45:TH:391:ARG:N	2.23	0.52
45:TL:115:SER:O	45:TL:118:ASP:HB3	2.10	0.52
44:TM:135:PHE:HB2	44:TM:166:LYS:CG	2.37	0.52
44:UA:252:ILE:HA	44:UA:255:PHE:CE2	2.44	0.52
45:UB:2:ARG:O	45:UB:131:GLN:HB2	2.09	0.52
44:UC:64:ARG:NH1	44:UC:129:CYS:SG	2.82	0.52
45:UD:3:GLU:HG2	45:UD:127:CYS:HB2	1.90	0.52
45:UD:193:VAL:HA	45:UD:264:HIS:NE2	2.24	0.52
44:UG:22:GLU:HG3	44:UG:83:TYR:CE2	2.44	0.52
45:UH:28:HIS:NE2	45:UH:241:ARG:HD2	2.24	0.52
45:UJ:256:ASN:HD22	45:UJ:350:LYS:HD2	1.75	0.52
45:UL:183:TYR:HE2	45:UL:394:PHE:HB2	1.74	0.52
44:UM:157:LEU:HA	44:UM:160:ASP:OD2	2.09	0.52
45:UN:12:CYS:HB3	45:UN:138:SER:CB	2.40	0.52
45:UN:345:ILE:O	45:UN:345:ILE:HG23	2.09	0.52
45:UN:374:ILE:HG22	45:UN:378:PHE:CE2	2.44	0.52
44:VA:319:TYR:HA	44:VA:374:ALA:O	2.08	0.52
44:VC:67:PHE:C	44:VC:68:LEU:HD12	2.30	0.52
45:VF:42:LEU:HD22	45:VF:356:ILE:CD1	2.39	0.52
44:VG:13:GLY:HA2	44:VG:16:VAL:CG1	2.38	0.52
44:VG:286:LEU:O	44:VG:373:ARG:NH2	2.35	0.52
44:VG:294:SER:HA	44:VG:297:GLU:OE2	2.09	0.52
45:VH:136:THR:HA	45:VH:167:PHE:O	2.09	0.52
45:VH:143:THR:HG22	48:VH:501:GDP:PB	2.49	0.52
45:VH:318:ARG:HE	45:VH:358:PRO:HD3	1.75	0.52
44:VI:223:THR:O	44:VI:227:LEU:HD13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:233:GLN:O	44:VI:236:SER:HB3	2.09	0.52
45:VJ:101:TRP:CD2	45:VJ:187:LEU:HB3	2.44	0.52
45:VJ:362:LYS:O	45:VJ:363:MET:HG2	2.09	0.52
44:VK:221:ARG:NH1	45:VL:325:GLU:HB3	2.25	0.52
44:VM:181:VAL:HG12	45:VN:349:ILE:N	2.24	0.52
44:VM:256:GLN:NE2	44:VM:257:THR:HG23	2.24	0.52
45:VN:186:THR:HG23	45:VN:187:LEU:N	2.24	0.52
45:WB:73:MET:HE2	45:WB:76:VAL:HG11	1.91	0.52
45:WD:24:ILE:HA	45:WD:27:GLU:HB3	1.90	0.52
44:WE:183:GLU:HG2	44:WE:184:PRO:HD3	1.90	0.52
45:WF:325:GLU:HA	45:WF:328:GLU:OE2	2.08	0.52
44:WG:143:GLY:HA3	46:WG:501:GTP:PB	2.49	0.52
44:WG:238:LEU:HD11	44:WG:255:PHE:CE2	2.44	0.52
45:WH:141:GLY:HA3	48:WH:501:GDP:PA	2.49	0.52
45:WJ:156:ARG:NH2	45:WJ:197:ASP:OD2	2.42	0.52
45:WJ:328:GLU:O	45:WJ:331:LEU:HB3	2.09	0.52
44:WK:118:CYS:SG	44:WK:153:LEU:HD21	2.49	0.52
44:WM:70:LEU:O	44:WM:72:PRO:HD3	2.09	0.52
44:WM:139:ASN:ND2	44:WM:141:VAL:HG22	2.23	0.52
44:WM:166:LYS:C	44:WM:167:LEU:HD12	2.30	0.52
44:WM:216:ASN:HB3	44:WM:275:ILE:O	2.08	0.52
45:WN:210:ILE:O	45:WN:214:THR:OG1	2.23	0.52
16:OX:29:GLY:C	45:MD:217:LEU:HD11	2.30	0.52
8:1G:163:ARG:HA	44:KA:245:ASP:HB3	1.90	0.52
13:1T:147:PHE:CB	45:MF:402:GLY:HA3	2.27	0.52
15:1V:98:LEU:HD21	44:LI:405:VAL:HG13	1.90	0.52
17:2B:62:THR:HB	44:LK:80:THR:O	2.08	0.52
32:2I:134:LYS:CE	45:GD:328:GLU:HG3	2.38	0.52
21:2K:238:LYS:HD3	45:FN:56:GLY:HA2	1.91	0.52
24:2O:149:TYR:HB2	44:VK:282:TYR:CE2	2.44	0.52
25:2P:380:ARG:C	44:TM:370:LYS:HE3	2.29	0.52
26:2R:390:ASP:OD1	45:EH:218:THR:OG1	2.27	0.52
2:3A:104:ARG:HG2	35:6R:59:MET:HG2	1.91	0.52
32:3I:279:MET:HE2	45:GJ:218:THR:CG2	2.36	0.52
16:3X:103:ASN:ND2	44:MK:370:LYS:HB3	2.09	0.52
34:4F:228:SER:HA	44:HM:84:ARG:HD3	1.90	0.52
31:4H:193:LEU:HD23	45:AL:357:PRO:HG2	1.91	0.52
37:5A:126:ILE:HG21	45:ND:227:HIS:HB3	1.91	0.52
37:5B:163:ALA:HB1	44:NG:280:LYS:CB	2.37	0.52
37:5D:38:THR:N	44:KK:262:TYR:HB3	2.23	0.52
37:5D:55:ALA:HB3	44:KK:345:ASP:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5H:71:PRO:HG3	38:5H:106:VAL:CG2	2.39	0.52
11:5Q:77:VAL:HG11	11:5Q:166:TYR:CE2	2.44	0.52
35:5R:500:VAL:HB	45:EJ:32:PRO:HG3	1.90	0.52
35:5R:534:HIS:ND1	35:5R:580:LEU:HD21	2.24	0.52
41:6G:268:VAL:HB	44:VA:340:THR:CG2	2.38	0.52
35:6R:381:PHE:CD1	45:DN:32:PRO:HG2	2.44	0.52
35:7R:78:ILE:HG23	35:7R:79:PRO:HD2	1.91	0.52
35:7R:407:LYS:C	45:EB:218:THR:HG21	2.29	0.52
35:7R:453:ILE:O	35:7R:473:ARG:HA	2.08	0.52
42:8N:123:UNK:HA	44:RI:370:LYS:HZ1	1.74	0.52
43:8R:147:UNK:CE1	45:PJ:279:GLN:HG2	2.40	0.52
44:AA:7:ILE:CD1	44:AA:66:VAL:HG13	2.38	0.52
44:AA:240:ALA:HB1	44:AA:356:ASN:ND2	2.24	0.52
44:AA:271:SER:CA	44:AA:377:MET:HB3	2.39	0.52
44:AC:224:TYR:CD1	45:AD:323:THR:HG21	2.44	0.52
45:AF:3:GLU:OE2	45:AF:127:CYS:HB2	2.09	0.52
45:AF:394:PHE:HA	45:AF:397:TRP:HZ3	1.74	0.52
44:AG:263:PRO:HD3	45:AJ:396:HIS:CD2	2.44	0.52
45:AH:77:ARG:HD3	45:AH:90:PHE:HE1	1.72	0.52
45:AH:143:THR:O	45:AH:147:MET:HB3	2.09	0.52
45:AH:227:HIS:O	45:AH:230:SER:HB2	2.08	0.52
45:AJ:117:LEU:O	45:AJ:120:VAL:HG12	2.09	0.52
44:AK:11:GLN:NE2	45:AL:247:ASN:OD1	2.41	0.52
44:AK:238:LEU:HD21	44:AK:255:PHE:HE2	1.73	0.52
44:AM:6:SER:O	44:AM:7:ILE:HD13	2.09	0.52
44:AM:20:CYS:HA	44:AM:232:ALA:CB	2.36	0.52
45:AN:213:ARG:HE	45:AN:297:LYS:HD2	1.74	0.52
44:BA:107:HIS:CE1	44:BA:152:LEU:HD13	2.44	0.52
44:BC:387:VAL:HA	44:BC:390:ARG:HG2	1.91	0.52
44:BC:398:MET:HE3	45:BD:346:PRO:HD2	1.90	0.52
45:BD:87:PRO:HA	45:BD:90:PHE:CD2	2.45	0.52
45:BD:217:LEU:O	45:BD:217:LEU:HD12	2.09	0.52
45:BF:178:THR:H	45:BF:181:GLU:CD	2.11	0.52
45:BJ:207:LEU:HB3	45:BJ:225:LEU:CD2	2.32	0.52
45:BJ:285:THR:O	45:BJ:289:LEU:HG	2.09	0.52
44:BK:71:GLU:OE2	44:BK:73:THR:HG23	2.08	0.52
44:CA:318:MET:O	44:CA:375:VAL:HG23	2.09	0.52
45:CB:210:ILE:O	45:CB:215:LEU:HG	2.08	0.52
45:CB:271:ALA:HA	45:CB:272:PRO:O	2.09	0.52
45:CD:330:MET:O	45:CD:333:VAL:HG12	2.09	0.52
44:CE:203:MET:HG3	44:CE:384:ILE:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:66:MET:HA	45:CF:66:MET:CE	2.39	0.52
45:CF:170:VAL:HG13	45:CF:171:PRO:HD2	1.91	0.52
45:CF:257:LEU:HA	45:CF:312:THR:CG2	2.38	0.52
44:CG:319:TYR:CE2	44:CG:328:VAL:HG22	2.44	0.52
45:CH:329:GLN:O	45:CH:333:VAL:HG23	2.09	0.52
44:CI:99:ALA:CB	44:CI:145:THR:HG22	2.39	0.52
45:CJ:268:ILE:HA	45:CJ:367:PHE:O	2.09	0.52
45:CJ:290:THR:HG21	45:CJ:329:GLN:NE2	2.24	0.52
45:CL:135:ILE:HG13	45:CL:152:ILE:HD11	1.90	0.52
44:CM:165:SER:HA	44:CM:199:ASP:OD2	2.09	0.52
44:CM:179:THR:CB	46:CM:501:GTP:H3'	2.39	0.52
44:DA:31:GLN:OE1	44:DA:35:GLN:HB2	2.10	0.52
44:DA:63:PRO:CG	44:DA:86:LEU:HG	2.39	0.52
44:DA:263:PRO:HD3	45:DB:396:HIS:CD2	2.45	0.52
44:DA:293:ASN:OD1	44:DA:335:ILE:HD11	2.10	0.52
44:DC:175:PRO:HD2	44:DC:207:GLU:OE1	2.08	0.52
44:DG:346:TRP:CE3	44:DG:347:CYS:HB2	2.44	0.52
44:DI:344:VAL:HG13	44:DI:347:CYS:H	1.74	0.52
44:DK:206:ASN:ND2	46:DK:501:GTP:O2'	2.35	0.52
44:DK:296:PHE:CE2	44:DK:335:ILE:HG21	2.44	0.52
45:DL:150:LEU:CD2	45:DL:154:LYS:HG3	2.38	0.52
45:DL:345:ILE:HG23	45:DL:345:ILE:O	2.09	0.52
44:DM:171:ILE:HG12	44:DM:204:LEU:CB	2.38	0.52
45:DN:193:VAL:HG23	45:DN:264:HIS:CE1	2.45	0.52
45:DN:267:MET:N	45:DN:267:MET:SD	2.81	0.52
44:EC:6:SER:OG	44:EC:65:ALA:HA	2.10	0.52
44:EC:54:SER:HB3	44:EC:64:ARG:CZ	2.38	0.52
44:EC:68:LEU:CA	44:EC:93:ILE:HD11	2.38	0.52
44:EC:125:LEU:O	44:EC:128:ASN:HB2	2.08	0.52
44:EC:188:ILE:CG2	44:EC:425:LEU:HD11	2.28	0.52
44:EC:422:ARG:NH1	44:EC:426:ALA:HB2	2.24	0.52
45:ED:17:GLY:HA2	45:ED:20:PHE:CB	2.28	0.52
44:EE:104:ALA:HB3	44:EE:411:GLU:HG3	1.91	0.52
44:EE:348:PRO:HB2	45:EF:384:GLN:OE1	2.09	0.52
45:EF:246:LEU:HG	44:EG:11:GLN:OE1	2.08	0.52
44:EG:427:ALA:O	44:EG:430:LYS:HB3	2.08	0.52
45:EH:345:ILE:HG23	45:EH:345:ILE:O	2.09	0.52
45:EH:378:PHE:CE2	45:EH:418:LEU:HD23	2.44	0.52
44:EI:26:LEU:CD2	44:EI:364:PRO:HD3	2.39	0.52
44:EI:242:LEU:HD22	44:EI:252:ILE:HD12	1.89	0.52
45:EJ:3:GLU:O	45:EJ:131:GLN:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:254:ALA:HB1	44:EK:407:TRP:HH2	1.75	0.52
44:EK:30:ILE:HG12	44:EK:36:MET:HE1	1.91	0.52
44:EM:136:LEU:CD2	44:EM:167:LEU:HB2	2.39	0.52
44:EM:229:ARG:O	44:EM:232:ALA:HB3	2.09	0.52
44:EM:262:TYR:HE2	44:EM:435:VAL:HG22	1.75	0.52
44:FA:96:LYS:HA	45:FB:1:MET:HE2	1.90	0.52
45:FB:52:ASN:HB2	45:FB:60:VAL:HG13	1.91	0.52
45:FB:180:VAL:HG23	45:FB:183:TYR:CD2	2.44	0.52
45:FB:421:GLU:HG2	45:FB:424:GLN:OE1	2.08	0.52
44:FC:175:PRO:HG2	44:FC:304:LYS:HG2	1.91	0.52
45:FD:138:SER:O	45:FD:145:SER:N	2.42	0.52
45:FD:143:THR:CB	45:FD:147:MET:HE2	2.32	0.52
45:FD:267:MET:O	45:FD:369:GLY:N	2.34	0.52
44:FE:268:MET:HB3	44:FE:380:ASN:OD1	2.09	0.52
44:FE:288:VAL:HG11	44:FE:327:ASP:CG	2.29	0.52
45:FF:112:LEU:O	45:FF:112:LEU:HD23	2.09	0.52
44:FI:20:CYS:HA	44:FI:232:ALA:HB1	1.89	0.52
44:FI:276:ILE:HG23	44:FI:281:ALA:HB2	1.91	0.52
44:FI:398:MET:HE1	45:FJ:345:ILE:HG13	1.90	0.52
45:FJ:130:LEU:HD21	45:FJ:133:PHE:CE1	2.44	0.52
45:FJ:248:SER:OG	45:FJ:252:LYS:HD2	2.09	0.52
45:FJ:374:ILE:HG12	45:FJ:422:TYR:HH	1.74	0.52
45:FL:51:TYR:CE1	45:FL:61:PRO:HG3	2.43	0.52
45:FL:166:THR:OG1	45:FL:198:GLU:O	2.23	0.52
44:FM:69:ASP:OD1	44:FM:70:LEU:N	2.41	0.52
45:FN:103:LYS:O	45:FN:108:GLU:N	2.41	0.52
45:FN:116:VAL:HA	45:FN:119:VAL:HG12	1.92	0.52
45:GB:290:THR:HA	45:GB:293:MET:SD	2.49	0.52
44:GE:10:GLY:HA2	46:GE:501:GTP:O1B	2.09	0.52
44:GE:402:ARG:HB2	44:GE:405:VAL:HG11	1.91	0.52
44:GG:200:VAL:HG13	44:GG:268:MET:CE	2.40	0.52
44:GI:183:GLU:N	44:GI:184:PRO:HD2	2.24	0.52
44:GI:185:TYR:HE2	44:GI:404:PHE:HB2	1.74	0.52
44:GI:407:TRP:O	44:GI:410:GLY:N	2.38	0.52
44:GK:220:GLU:C	44:GK:222:PRO:HD3	2.29	0.52
45:GL:217:LEU:HD11	45:GL:220:PRO:HG3	1.91	0.52
44:GM:4:VAL:HG23	44:GM:134:GLY:O	2.09	0.52
44:GM:172:TYR:CD2	44:GM:203:MET:HG3	2.42	0.52
44:GM:179:THR:O	45:GN:350:LYS:HA	2.08	0.52
44:GM:183:GLU:N	44:GM:184:PRO:HD2	2.23	0.52
45:HB:116:VAL:HA	45:HB:119:VAL:CG1	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:411:ALA:C	45:HB:415:MET:HE2	2.29	0.52
44:HC:181:VAL:CG1	45:HD:256:ASN:HA	2.39	0.52
44:HC:271:SER:OG	44:HC:301:MET:HA	2.09	0.52
45:HD:105:HIS:CD2	45:HD:150:LEU:HB2	2.45	0.52
45:HD:185:ALA:O	45:HD:188:SER:OG	2.20	0.52
44:HE:285:GLN:O	44:HE:286:LEU:HB2	2.08	0.52
44:HI:223:THR:HA	45:HJ:323:THR:OG1	2.09	0.52
45:HJ:69:GLU:OE1	45:HJ:71:GLY:N	2.38	0.52
45:HJ:86:ARG:HH12	45:IJ:282:ARG:CA	2.22	0.52
44:HK:74:VAL:CG1	44:HK:75:ILE:HD12	2.39	0.52
44:HK:103:PHE:HE2	44:HK:189:LEU:HB3	1.75	0.52
45:HL:383:GLU:CA	45:HL:386:THR:HG22	2.39	0.52
45:HN:166:THR:HG22	45:HN:198:GLU:O	2.09	0.52
45:IB:135:ILE:HG13	45:IB:152:ILE:CD1	2.39	0.52
45:IF:404:ASP:OD1	45:IF:406:MET:N	2.41	0.52
44:IG:107:HIS:HD1	44:IG:107:HIS:C	2.13	0.52
44:IG:204:LEU:HD13	44:IG:231:ILE:CD1	2.36	0.52
45:IH:203:ASP:O	45:IH:207:LEU:HG	2.08	0.52
44:II:14:ILE:HD13	44:II:75:ILE:HD11	1.90	0.52
45:IL:60:VAL:HG23	45:IL:84:LEU:O	2.09	0.52
44:IM:175:PRO:HD2	44:IM:207:GLU:OE2	2.09	0.52
44:IM:183:GLU:HG2	44:IM:184:PRO:HD3	1.89	0.52
44:IM:270:SER:HB3	44:IM:378:ILE:HD13	1.91	0.52
45:IN:323:THR:O	45:IN:326:VAL:HB	2.08	0.52
45:JB:136:THR:HG22	45:JB:167:PHE:HB2	1.90	0.52
45:JB:199:CYS:HB2	45:JB:264:HIS:CE1	2.44	0.52
44:JC:439:THR:CB	45:JF:390:ARG:HH12	2.22	0.52
45:JF:271:ALA:HB1	45:JF:272:PRO:HA	1.91	0.52
44:JG:234:VAL:HG22	44:JG:272:TYR:HB2	1.90	0.52
44:JG:256:GLN:C	45:JJ:397:TRP:HZ3	2.13	0.52
44:JG:260:VAL:O	44:JG:260:VAL:HG23	2.09	0.52
45:JH:143:THR:HG22	48:JH:501:GDP:O1B	2.10	0.52
45:JH:207:LEU:HG	45:JH:300:MET:CE	2.39	0.52
45:JH:406:MET:CE	45:NH:306:ARG:HE	2.22	0.52
44:JI:13:GLY:O	44:JI:16:VAL:HG12	2.10	0.52
44:JK:28:HIS:CE1	44:JK:243:ARG:HH21	2.27	0.52
45:JN:86:ARG:CB	45:KN:281:TYR:HB3	2.38	0.52
45:KB:187:LEU:HD11	45:KB:408:PHE:CE1	2.44	0.52
45:KD:282:ARG:HG2	45:KD:283:ALA:N	2.24	0.52
44:KE:46:ASP:O	44:KE:48:ALA:N	2.41	0.52
44:KE:117:LEU:O	44:KE:117:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:398:MET:HE3	45:KF:345:ILE:HG13	1.90	0.52
44:KG:301:MET:HG3	44:KG:307:PRO:CG	2.39	0.52
44:KG:332:ILE:HD11	44:KG:351:PHE:CD2	2.44	0.52
44:KK:68:LEU:HD11	44:KK:118:CYS:SG	2.49	0.52
44:KK:286:LEU:HD13	44:KK:371:VAL:HG23	1.91	0.52
44:KM:15:GLN:O	44:KM:18:ASN:HB3	2.09	0.52
44:KM:46:ASP:N	44:KM:46:ASP:OD1	2.43	0.52
44:KM:62:VAL:HG13	44:KM:62:VAL:O	2.09	0.52
44:KM:384:ILE:O	44:KM:387:VAL:HG12	2.09	0.52
44:KM:420:GLU:HA	44:KM:423:GLU:HB2	1.90	0.52
44:LC:349:THR:CG2	45:LF:179:VAL:HA	2.32	0.52
45:LD:268:ILE:O	45:LD:299:MET:HE1	2.09	0.52
45:LF:103:LYS:HA	45:LF:107:THR:CG2	2.40	0.52
45:LF:117:LEU:HD21	45:LF:121:ARG:CZ	2.38	0.52
45:LF:235:GLY:HA2	45:LF:318:ARG:HH11	1.74	0.52
44:LG:6:SER:O	44:LG:7:ILE:HD13	2.09	0.52
45:LH:97:ALA:HB3	45:LH:143:THR:CB	2.36	0.52
44:LI:180:ALA:HA	45:LJ:350:LYS:CE	2.31	0.52
45:LN:248:SER:CB	45:LN:252:LYS:HD2	2.38	0.52
45:MB:262:ARG:NH1	45:MB:421:GLU:OE1	2.43	0.52
44:MC:265:ILE:HG23	44:MC:432:TYR:CE1	2.44	0.52
44:MC:276:ILE:CG1	44:MC:281:ALA:HA	2.39	0.52
45:MD:258:ILE:HG13	45:MD:266:PHE:HZ	1.74	0.52
45:MD:274:THR:CG2	45:MD:279:GLN:HA	2.34	0.52
44:ME:268:MET:HA	44:ME:433:GLU:O	2.10	0.52
44:ME:332:ILE:HG23	44:ME:351:PHE:CE1	2.44	0.52
45:MF:310:TYR:CD1	45:MF:371:SER:HB2	2.44	0.52
44:MG:138:PHE:CD2	44:MG:169:PHE:HB2	2.44	0.52
44:MG:318:MET:HE3	44:MG:318:MET:HA	1.90	0.52
45:MH:295:ASP:OD1	45:MH:296:ALA:N	2.42	0.52
44:MK:352:LYS:HD2	45:MN:177:ASP:O	2.10	0.52
45:ML:32:PRO:HB3	45:ML:81:PHE:CE1	2.43	0.52
44:MM:66:VAL:HG21	44:MM:122:ILE:CD1	2.38	0.52
44:MM:99:ALA:CB	44:MM:145:THR:HG22	2.38	0.52
44:MM:135:PHE:N	44:MM:165:SER:O	2.37	0.52
44:MM:245:ASP:O	44:MM:357:TYR:N	2.37	0.52
45:MN:203:ASP:OD2	45:MN:302:ALA:N	2.20	0.52
45:MN:221:THR:HG22	45:MN:224:ASP:OD2	2.10	0.52
45:NB:67:ASP:HB3	45:NB:73:MET:HE1	1.90	0.52
44:NC:188:ILE:HD12	44:NC:425:LEU:HD12	1.91	0.52
44:NC:306:ASP:O	44:NC:309:HIS:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ND:51:TYR:CE1	45:ND:61:PRO:HG3	2.43	0.52
44:NE:141:VAL:O	44:NE:141:VAL:HG22	2.10	0.52
44:NE:228:ASN:O	44:NE:231:ILE:HG22	2.10	0.52
44:NE:407:TRP:CH2	45:NF:254:ALA:HB1	2.42	0.52
45:NF:8:GLN:HB2	45:NF:13:GLY:O	2.09	0.52
45:NF:162:ARG:NE	45:NF:162:ARG:HA	2.23	0.52
45:NF:286:VAL:HG13	45:NF:363:MET:CE	2.40	0.52
44:NG:159:VAL:HG22	44:NG:159:VAL:O	2.09	0.52
44:NG:177:VAL:HG22	44:NG:207:GLU:OE2	2.10	0.52
44:NG:288:VAL:HG21	44:NG:323:VAL:HG22	1.90	0.52
44:NG:320:ARG:NH2	44:NG:360:PRO:HB3	2.24	0.52
45:NH:192:LEU:HD21	45:NH:199:CYS:HB2	1.90	0.52
45:NH:345:ILE:HG23	45:NH:345:ILE:O	2.08	0.52
45:NH:388:MET:O	45:NH:391:ARG:HG2	2.09	0.52
45:NJ:289:LEU:HD21	45:NJ:363:MET:SD	2.50	0.52
45:NJ:348:ASN:O	45:NJ:349:ILE:HG13	2.10	0.52
45:NL:324:LYS:HG3	45:NL:325:GLU:N	2.22	0.52
44:OA:183:GLU:N	44:OA:184:PRO:HD2	2.24	0.52
45:OB:11:GLN:O	45:OB:15:GLN:HG2	2.09	0.52
44:OC:36:MET:SD	44:OC:37:PRO:HD2	2.49	0.52
44:OC:132:LEU:HD21	44:OC:164:LYS:HG2	1.91	0.52
45:OD:280:GLN:N	45:OD:281:TYR:HB2	2.24	0.52
44:OE:89:PRO:CG	44:PE:280:LYS:HG3	2.39	0.52
44:OE:261:PRO:HA	45:OH:394:PHE:CE1	2.44	0.52
45:OF:396:HIS:O	45:OF:399:THR:OG1	2.26	0.52
44:OG:16:VAL:HG13	44:OG:231:ILE:HG21	1.90	0.52
45:OH:180:VAL:C	45:OH:182:PRO:HD2	2.29	0.52
44:OI:54:SER:HB3	44:OI:64:ARG:CZ	2.39	0.52
44:OI:87:PHE:HB3	44:OI:91:GLN:HE21	1.73	0.52
45:OJ:2:ARG:O	45:OJ:240:LEU:HD21	2.08	0.52
44:OK:63:PRO:CG	44:OK:86:LEU:HD11	2.39	0.52
44:OM:201:ALA:HB3	44:OM:267:PHE:CD2	2.44	0.52
44:OM:291:ILE:HG13	44:OM:292:THR:N	2.24	0.52
45:ON:164:MET:CE	45:ON:196:ALA:HA	2.39	0.52
45:ON:185:ALA:O	45:ON:189:VAL:HG23	2.08	0.52
44:PA:60:LYS:HE2	44:PA:86:LEU:HA	1.92	0.52
45:PB:252:LYS:HA	45:PB:255:VAL:HB	1.91	0.52
45:PB:315:ALA:HA	45:PB:366:THR:O	2.08	0.52
45:PD:87:PRO:HD3	45:QB:281:TYR:CE1	2.44	0.52
45:PD:326:VAL:HG11	45:PD:353:ILE:HD11	1.92	0.52
45:PF:45:GLU:OE2	45:PF:243:PRO:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:310:TYR:CE1	45:PF:371:SER:HB3	2.44	0.52
44:PG:73:THR:CG2	45:PH:243:PRO:HA	2.39	0.52
44:PG:123:ARG:O	44:PG:126:ALA:HB3	2.09	0.52
44:PG:221:ARG:HH21	45:PH:321:MET:HA	1.74	0.52
44:PG:291:ILE:HG13	44:PG:292:THR:N	2.25	0.52
45:PH:86:ARG:NH1	45:QF:282:ARG:HG3	2.24	0.52
44:PI:220:GLU:C	44:PI:222:PRO:HD3	2.29	0.52
45:PJ:262:ARG:C	45:PJ:263:LEU:HD12	2.29	0.52
45:PJ:374:ILE:HG12	45:PJ:422:TYR:CE2	2.44	0.52
44:PK:228:ASN:HA	44:PK:231:ILE:HD12	1.91	0.52
45:PL:21:TRP:CZ3	45:PL:61:PRO:HB3	2.44	0.52
44:PM:296:PHE:HD2	44:PM:335:ILE:HD12	1.74	0.52
45:PN:164:MET:N	45:PN:197:ASP:HB2	2.24	0.52
45:PN:203:ASP:HB3	45:PN:205:GLU:HG3	1.90	0.52
45:PN:237:THR:HG23	45:PN:241:ARG:NE	2.23	0.52
45:QB:11:GLN:HG3	45:QB:72:THR:CG2	2.39	0.52
45:QB:166:THR:HG21	45:QB:196:ALA:HB2	1.91	0.52
45:QB:256:ASN:ND2	45:QB:350:LYS:HD3	2.24	0.52
45:QD:4:ILE:HG22	45:QD:132:GLY:H	1.74	0.52
45:QH:222:TYR:O	45:QH:225:LEU:N	2.42	0.52
44:QI:349:THR:HG23	45:QJ:179:VAL:HA	1.91	0.52
44:QI:352:LYS:CD	45:QJ:178:THR:HA	2.39	0.52
45:QJ:30:ILE:HG13	45:QJ:30:ILE:O	2.08	0.52
45:QL:14:ASN:CB	45:QL:73:MET:HE1	2.40	0.52
45:QL:228:LEU:O	45:QL:232:ALA:HB2	2.09	0.52
44:QM:240:ALA:HB3	44:QM:356:ASN:ND2	2.23	0.52
44:RA:182:VAL:C	44:RA:184:PRO:HD2	2.29	0.52
44:RC:356:ASN:OD1	44:RC:357:TYR:N	2.42	0.52
45:RD:86:ARG:NH2	45:RD:87:PRO:HD2	2.24	0.52
45:RF:87:PRO:HA	45:RF:90:PHE:CD2	2.45	0.52
45:RF:323:THR:OG1	44:RG:210:TYR:OH	2.23	0.52
44:RG:269:LEU:H	44:RG:269:LEU:HD23	1.74	0.52
44:RG:275:ILE:C	44:RG:276:ILE:HD12	2.30	0.52
44:RG:319:TYR:CD1	44:RG:375:VAL:HG23	2.44	0.52
45:RH:183:TYR:OH	45:RH:388:MET:O	2.27	0.52
45:RH:268:ILE:HD11	45:RH:300:MET:HG2	1.91	0.52
45:RJ:68:LEU:HD23	45:RJ:97:ALA:N	2.24	0.52
45:RJ:265:PHE:HB2	45:RJ:374:ILE:HD13	1.91	0.52
44:RK:103:PHE:CE2	44:RK:189:LEU:HD13	2.44	0.52
45:RL:272:PRO:CD	45:RL:364:ALA:HA	2.28	0.52
44:RM:203:MET:CE	44:RM:384:ILE:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:7:ILE:O	44:SA:137:VAL:HA	2.09	0.52
44:SA:268:MET:HB2	44:SA:379:SER:O	2.10	0.52
45:SB:117:LEU:CD1	45:SB:154:LYS:HD2	2.40	0.52
44:SC:261:PRO:HA	45:SD:394:PHE:CE1	2.45	0.52
45:SD:185:ALA:O	45:SD:189:VAL:HG22	2.09	0.52
45:SD:398:TYR:CB	45:SD:403:MET:HE3	2.32	0.52
44:SE:320:ARG:HE	44:SE:360:PRO:HD3	1.71	0.52
44:SE:439:THR:HG21	45:SF:390:ARG:HD2	1.92	0.52
45:SF:233:MET:O	45:SF:236:VAL:HG12	2.09	0.52
45:SF:237:THR:HG23	45:SF:241:ARG:HE	1.73	0.52
44:SG:267:PHE:CD2	44:SG:388:PHE:HZ	2.27	0.52
45:SH:80:PRO:O	45:SH:81:PHE:HB2	2.08	0.52
45:SJ:51:TYR:HA	45:SJ:60:VAL:O	2.10	0.52
45:SJ:406:MET:CE	45:SJ:409:THR:HG21	2.39	0.52
44:SK:275:ILE:CD1	44:SK:368:LEU:HD21	2.38	0.52
44:SM:103:PHE:CE1	44:SM:148:GLY:HA2	2.45	0.52
44:SM:277:SER:C	44:SM:369:ALA:HB2	2.28	0.52
45:SN:34:GLY:O	45:SN:58:ARG:HA	2.08	0.52
45:SN:68:LEU:HD23	45:SN:97:ALA:HB2	1.90	0.52
45:SN:97:ALA:HB3	45:SN:143:THR:HG21	1.90	0.52
45:TB:42:LEU:HG	45:TB:45:GLU:OE2	2.08	0.52
44:TC:313:MET:CE	44:TC:382:THR:HG22	2.40	0.52
45:TD:2:ARG:HH21	45:TD:240:LEU:HG	1.71	0.52
44:TE:291:ILE:HG13	44:TE:292:THR:N	2.25	0.52
45:TF:323:THR:O	45:TF:326:VAL:N	2.42	0.52
44:TI:88:HIS:HB3	44:TI:91:GLN:HG2	1.91	0.52
44:TI:325:PRO:HG2	45:TJ:222:TYR:CE1	2.44	0.52
44:TK:273:ALA:O	44:TK:375:VAL:HG12	2.09	0.52
44:TK:285:GLN:NE2	44:TK:287:SER:HB2	2.24	0.52
44:TM:182:VAL:O	44:TM:182:VAL:HG22	2.08	0.52
44:TM:315:CYS:HB3	44:TM:351:PHE:CD2	2.44	0.52
45:TN:303:ALA:HB2	45:TN:377:MET:CG	2.39	0.52
45:TN:325:GLU:HA	45:TN:328:GLU:CG	2.31	0.52
45:TN:334:GLN:HA	45:TN:334:GLN:OE1	2.09	0.52
44:UA:60:LYS:NZ	44:UA:61:HIS:H	2.07	0.52
44:UA:182:VAL:HG22	44:UA:182:VAL:O	2.10	0.52
45:UD:274:THR:CG2	45:UD:279:GLN:HB2	2.36	0.52
44:UE:183:GLU:OE2	44:UE:394:LYS:NZ	2.27	0.52
44:UE:238:LEU:O	44:UE:238:LEU:HD23	2.08	0.52
45:UF:256:ASN:C	45:UF:257:LEU:HD12	2.30	0.52
44:UG:294:SER:O	44:UG:300:ASN:ND2	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:6:HIS:NE2	45:UH:8:GLN:HB3	2.24	0.52
45:UH:150:LEU:O	45:UH:150:LEU:HD23	2.09	0.52
44:UK:74:VAL:O	44:UK:77:GLU:HB3	2.09	0.52
44:UK:119:LEU:O	44:UK:122:ILE:HB	2.09	0.52
44:UK:203:MET:N	44:UK:268:MET:O	2.36	0.52
45:UL:28:HIS:CD2	45:UL:241:ARG:HH22	2.28	0.52
45:UL:163:ILE:HD12	45:UL:250:LEU:HD12	1.90	0.52
44:UM:265:ILE:CD1	44:UM:435:VAL:HG21	2.39	0.52
45:UN:69:GLU:HB3	45:UN:96:GLY:HA3	1.91	0.52
44:VA:49:PHE:O	44:VA:53:PHE:HB2	2.08	0.52
44:VA:318:MET:HB3	44:VA:354:GLY:HA3	1.90	0.52
45:VB:42:LEU:HD22	45:VB:356:ILE:HD11	1.90	0.52
45:VB:256:ASN:CB	45:VB:350:LYS:HD2	2.39	0.52
44:VC:26:LEU:CD2	44:VC:363:VAL:HA	2.39	0.52
44:VC:257:THR:HA	45:VF:397:TRP:HE1	1.74	0.52
44:VC:312:TYR:CD2	44:VC:381:SER:HB3	2.44	0.52
45:VD:193:VAL:HG13	45:VD:194:GLU:CD	2.30	0.52
45:VD:267:MET:SD	45:VD:301:CYS:HB3	2.49	0.52
44:VE:103:PHE:CZ	44:VE:189:LEU:HB3	2.44	0.52
44:VE:264:ARG:CZ	44:VE:431:ASP:HB3	2.39	0.52
45:VF:3:GLU:OE2	45:VF:127:CYS:HB2	2.09	0.52
45:VF:360:GLY:C	45:VF:361:LEU:HD12	2.30	0.52
45:VH:318:ARG:HB3	45:VH:364:ALA:HB3	1.90	0.52
44:VI:349:THR:OG1	45:VL:384:GLN:NE2	2.42	0.52
45:VL:99:ASN:CA	45:VL:142:GLY:HA3	2.38	0.52
44:VM:272:TYR:CD1	44:VM:376:CYS:HB2	2.31	0.52
44:VM:275:ILE:HG23	44:VM:368:LEU:HD11	1.91	0.52
44:VM:319:TYR:CE2	44:VM:375:VAL:HB	2.44	0.52
45:VN:9:GLY:O	45:VN:13:GLY:HA3	2.09	0.52
44:WA:152:LEU:HB2	44:WA:153:LEU:C	2.30	0.52
44:WA:328:VAL:O	44:WA:332:ILE:HG12	2.10	0.52
44:WC:93:ILE:H	44:WC:93:ILE:HD12	1.75	0.52
45:WD:6:HIS:CG	45:WD:134:GLN:HE22	2.27	0.52
45:WD:267:MET:HG3	45:WD:369:GLY:O	2.09	0.52
45:WH:300:MET:HE2	45:WH:300:MET:HA	1.91	0.52
45:WJ:63:ALA:O	45:WJ:64:ILE:HD13	2.10	0.52
45:WJ:69:GLU:OE1	45:WJ:71:GLY:N	2.41	0.52
45:WJ:180:VAL:O	45:WJ:180:VAL:HG22	2.09	0.52
45:WJ:283:ALA:O	45:WJ:288:GLU:HG3	2.09	0.52
44:WK:295:ALA:HB1	44:WK:377:MET:CE	2.37	0.52
44:WK:349:THR:HG23	45:WN:179:VAL:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WL:5:VAL:HG12	45:WL:133:PHE:CD1	2.45	0.52
44:WM:119:LEU:HB3	44:WM:123:ARG:NH1	2.11	0.52
45:WN:117:LEU:HD22	45:WN:154:LYS:HD2	1.92	0.52
45:WN:398:TYR:HB3	45:WN:403:MET:CE	2.39	0.52
2:0A:91:ASN:HB3	45:MB:37:HIS:CE1	2.44	0.52
7:0F:76:PHE:CE1	45:ED:43:GLN:HG3	2.43	0.52
8:0G:161:LYS:HE2	44:KM:357:TYR:CB	2.30	0.52
9:0H:356:LYS:HD2	44:GM:58:ALA:CB	2.31	0.52
16:0X:3:ARG:HG2	44:MA:246:GLY:O	2.09	0.52
18:1F:149:PRO:HB3	45:HL:212:PHE:CE2	2.43	0.52
9:1H:253:LEU:CD1	44:HE:364:PRO:HB3	2.38	0.52
24:1O:268:ASN:HB2	44:UA:282:TYR:HD2	1.73	0.52
29:2F:61:THR:HG23	45:GF:74:ASP:OD1	2.09	0.52
22:2L:753:ARG:HG3	45:BL:362:LYS:HZ2	1.74	0.52
32:3I:265:LYS:NZ	45:FJ:117:LEU:HD23	2.23	0.52
28:4C:25:LYS:NZ	44:LM:364:PRO:HA	2.24	0.52
31:4H:196:SER:CA	45:AL:40:SER:HB2	2.38	0.52
16:4X:30:GLU:OE2	45:LL:276:ARG:HD3	2.08	0.52
11:5Q:29:ILE:HD12	11:5Q:57:ASN:HB3	1.90	0.52
11:5Q:97:LYS:HE3	45:AN:392:LYS:CE	2.39	0.52
35:5R:189:GLU:HA	35:5R:192:VAL:HG12	1.91	0.52
36:5S:206:TYR:HD2	45:WH:86:ARG:HG2	1.73	0.52
41:6G:274:ASN:CA	41:6G:276:PRO:HD2	2.38	0.52
11:6Q:99:VAL:HB	11:6Q:101:ARG:HH12	1.73	0.52
35:6R:27:LYS:HZ2	44:LK:2:ARG:NH1	2.07	0.52
35:6R:547:GLU:O	35:6R:551:LEU:HG	2.08	0.52
35:7R:230:GLU:OE2	45:CB:218:THR:HG21	2.09	0.52
44:AA:79:ARG:HG2	44:AA:92:LEU:HD22	1.91	0.52
44:AA:291:ILE:HG13	44:AA:292:THR:N	2.23	0.52
45:AB:67:ASP:O	45:AB:92:PHE:HA	2.08	0.52
45:AB:222:TYR:O	45:AB:225:LEU:HB2	2.09	0.52
45:AD:23:VAL:HG21	45:AD:230:SER:HB3	1.90	0.52
44:AE:32:PRO:HB3	44:AE:83:TYR:CD1	2.44	0.52
45:AF:86:ARG:HD3	45:BF:281:TYR:HB3	1.91	0.52
45:AF:257:LEU:HD11	45:AF:314:SER:HB2	1.92	0.52
45:AF:362:LYS:NZ	45:MF:55:THR:HB	2.24	0.52
44:AG:1:MET:SD	45:AJ:70:PRO:HG2	2.50	0.52
45:AH:4:ILE:HG23	45:AH:132:GLY:O	2.09	0.52
45:AJ:135:ILE:HG12	45:AJ:164:MET:HE3	1.90	0.52
45:AJ:262:ARG:NH1	45:AJ:421:GLU:OE1	2.35	0.52
44:BA:184:PRO:HG2	44:BA:398:MET:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:257:THR:HG22	45:BD:397:TRP:CD2	2.44	0.52
44:BC:119:LEU:HD21	44:BC:156:ARG:HD2	1.90	0.52
45:BD:299:MET:HG3	45:BD:305:PRO:HG3	1.91	0.52
44:BE:91:GLN:O	44:BE:93:ILE:HD12	2.10	0.52
44:BE:296:PHE:CE2	44:BE:335:ILE:HG21	2.44	0.52
44:BI:106:GLY:O	44:BI:149:LEU:HD22	2.10	0.52
45:BJ:207:LEU:O	45:BJ:210:ILE:HG22	2.09	0.52
44:BK:278:ALA:HB2	44:BK:369:ALA:HB2	1.90	0.52
44:BK:292:THR:HG21	44:BK:331:SER:CB	2.30	0.52
45:BL:174:LYS:CE	45:BL:175:VAL:HG13	2.39	0.52
44:BM:407:TRP:HH2	45:BN:254:ALA:CB	2.22	0.52
45:BN:4:ILE:HD11	45:BN:131:GLN:HB3	1.91	0.52
45:BN:318:ARG:HH11	45:BN:358:PRO:CD	2.22	0.52
44:CA:238:LEU:O	44:CA:238:LEU:HD23	2.10	0.52
44:CA:271:SER:HA	44:CA:302:MET:HE3	1.90	0.52
44:CC:26:LEU:HD22	44:CC:364:PRO:HD3	1.91	0.52
44:CC:55:GLU:O	44:DC:285:GLN:NE2	2.42	0.52
44:CE:67:PHE:C	44:CE:68:LEU:HD12	2.29	0.52
44:CE:195:LEU:CD1	44:CE:428:LEU:HD13	2.37	0.52
45:CF:325:GLU:HA	45:CF:328:GLU:HG2	1.91	0.52
44:CG:356:ASN:OD1	44:CG:357:TYR:N	2.42	0.52
45:CH:404:ASP:OD1	45:CH:407:GLU:HG3	2.10	0.52
44:CI:26:LEU:HD12	44:CI:26:LEU:O	2.09	0.52
44:CK:68:LEU:HD21	44:CK:118:CYS:CB	2.38	0.52
44:CK:133:GLN:O	44:CK:164:LYS:HE3	2.10	0.52
45:CL:200:MET:O	45:CL:200:MET:HG2	2.10	0.52
44:CM:217:LEU:HD13	44:CM:277:SER:HA	1.91	0.52
44:CM:360:PRO:HG3	44:CM:374:ALA:CB	2.36	0.52
44:DA:7:ILE:HD13	44:DA:66:VAL:HG11	1.92	0.52
44:DA:91:GLN:HA	44:DA:121:ARG:HD3	1.90	0.52
44:DA:320:ARG:HB3	44:DA:356:ASN:HB3	1.90	0.52
45:DB:167:PHE:CE2	45:DB:233:MET:HG2	2.44	0.52
45:DD:72:THR:HG23	45:DD:73:MET:N	2.25	0.52
45:DD:133:PHE:O	45:DD:164:MET:HA	2.09	0.52
45:DD:238:CYS:HB2	45:DD:318:ARG:CZ	2.40	0.52
44:DE:332:ILE:CG2	44:DE:336:LYS:HE2	2.39	0.52
44:DE:424:ASP:OD1	44:DE:424:ASP:N	2.43	0.52
45:DF:99:ASN:CA	45:DF:142:GLY:HA3	2.38	0.52
45:DF:187:LEU:HD11	45:DF:408:PHE:CE1	2.44	0.52
45:DF:330:MET:HE2	45:DF:330:MET:HA	1.91	0.52
44:DG:291:ILE:HB	44:DG:375:VAL:HG11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:11:GLN:H	48:DH:501:GDP:PB	2.32	0.52
45:DH:186:THR:HG21	45:DH:385:PHE:CD1	2.44	0.52
44:DI:54:SER:HB3	44:DI:64:ARG:CZ	2.38	0.52
45:DJ:86:ARG:HH22	45:EJ:282:ARG:CG	2.22	0.52
45:DJ:101:TRP:CZ3	45:DJ:187:LEU:HD22	2.43	0.52
45:DJ:198:GLU:HG2	45:DJ:266:PHE:CE2	2.44	0.52
45:DJ:251:ARG:HD3	44:DK:105:ARG:HH12	1.75	0.52
45:DJ:318:ARG:HB3	45:DJ:358:PRO:HD3	1.92	0.52
44:DK:188:ILE:CG2	44:DK:421:ALA:HB1	2.38	0.52
44:DM:93:ILE:HD12	44:DM:93:ILE:H	1.73	0.52
44:DM:344:VAL:CG1	44:DM:347:CYS:HB2	2.36	0.52
45:DN:30:ILE:HG23	45:DN:34:GLY:HA2	1.91	0.52
44:EA:254:GLU:OE2	45:EB:98:GLY:HA2	2.10	0.52
45:EB:187:LEU:HD11	45:EB:408:PHE:CE1	2.45	0.52
45:EB:215:LEU:CB	45:EB:217:LEU:HD23	2.38	0.52
44:EE:324:VAL:HG23	44:EE:326:LYS:HG3	1.91	0.52
45:EF:46:ARG:NH1	44:EG:73:THR:OG1	2.41	0.52
44:EG:93:ILE:HD11	44:EG:121:ARG:NH1	2.24	0.52
44:EG:157:LEU:CD2	44:EG:166:LYS:HD3	2.25	0.52
44:EG:172:TYR:HB3	44:EG:173:PRO:HD2	1.90	0.52
44:EG:188:ILE:HG23	44:EG:425:LEU:CD1	2.39	0.52
45:EH:264:HIS:O	45:EH:264:HIS:ND1	2.41	0.52
45:EJ:86:ARG:HE	45:EJ:87:PRO:CD	2.22	0.52
44:FC:118:CYS:O	44:FC:122:ILE:HD12	2.10	0.52
44:FC:157:LEU:HA	44:FC:160:ASP:HB2	1.90	0.52
45:FD:201:VAL:HG23	45:FD:301:CYS:SG	2.50	0.52
44:FI:203:MET:CG	44:FI:384:ILE:HD11	2.37	0.52
44:FI:256:GLN:CD	44:FI:256:GLN:H	2.13	0.52
44:FI:288:VAL:HA	44:FI:291:ILE:HD11	1.92	0.52
44:FK:91:GLN:HB3	44:FK:121:ARG:CD	2.39	0.52
45:FL:4:ILE:HD11	45:FL:131:GLN:HG2	1.91	0.52
45:FL:50:TYR:OH	45:FL:237:THR:HG21	2.09	0.52
45:FL:52:ASN:OD1	45:FL:62:ARG:NH2	2.42	0.52
45:FL:201:VAL:O	45:FL:202:ILE:HD13	2.08	0.52
45:FL:276:ARG:HG3	45:FL:276:ARG:HH11	1.73	0.52
45:FN:22:GLU:HG2	45:FN:81:PHE:CD1	2.44	0.52
45:FN:257:LEU:HD21	45:FN:314:SER:HB2	1.90	0.52
44:GA:78:VAL:CG1	44:GA:92:LEU:HD23	2.39	0.52
44:GA:320:ARG:HG3	44:GA:360:PRO:HG3	1.91	0.52
45:GB:7:ILE:O	45:GB:135:ILE:HA	2.09	0.52
45:GB:130:LEU:HG	45:GB:162:ARG:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GC:11:GLN:HE22	45:GD:247:ASN:H	1.57	0.52
45:GD:226:ASN:O	45:GD:229:VAL:HG12	2.10	0.52
45:GD:330:MET:HG3	45:GD:349:ILE:HG21	1.92	0.52
44:GE:269:LEU:HD12	44:GE:269:LEU:O	2.09	0.52
45:GF:169:VAL:O	45:GF:169:VAL:HG23	2.09	0.52
45:GF:342:VAL:HG22	45:GF:348:ASN:CB	2.26	0.52
44:GG:115:VAL:O	44:GG:119:LEU:HD23	2.10	0.52
44:GG:250:VAL:HG11	44:GG:318:MET:SD	2.48	0.52
44:GG:288:VAL:HA	44:GG:291:ILE:HG12	1.91	0.52
44:GI:56:THR:O	44:HI:285:GLN:HA	2.09	0.52
44:GK:37:PRO:CG	44:GK:40:LYS:HE2	2.40	0.52
44:GK:42:ILE:HG13	44:GK:43:GLY:N	2.24	0.52
44:GK:63:PRO:HG2	44:GK:86:LEU:HG	1.91	0.52
44:GK:422:ARG:NH1	44:GK:426:ALA:HB2	2.25	0.52
44:GM:328:VAL:HG11	44:GM:353:VAL:HG21	1.90	0.52
44:HA:205:ASP:CG	44:HA:303:ALA:HA	2.29	0.52
45:HB:167:PHE:CD2	45:HB:200:MET:HB2	2.44	0.52
45:HB:256:ASN:C	45:HB:257:LEU:HD12	2.29	0.52
44:HE:161:TYR:HB3	44:HE:164:LYS:HZ2	1.73	0.52
44:HE:292:THR:HG21	44:HE:331:SER:HB2	1.91	0.52
44:HG:371:VAL:HG22	44:HG:373:ARG:H	1.75	0.52
45:HH:173:PRO:HD2	45:HH:380:ARG:HH11	1.75	0.52
45:HH:254:ALA:HA	45:HH:258:ILE:CD1	2.40	0.52
44:HI:89:PRO:HG3	44:II:280:LYS:CG	2.38	0.52
44:HI:250:VAL:HG11	44:HI:318:MET:SD	2.49	0.52
44:HK:69:ASP:OD1	44:HK:145:THR:HG21	2.09	0.52
44:HK:275:ILE:HG23	44:HK:368:LEU:HD11	1.91	0.52
45:HL:167:PHE:HE1	45:HL:200:MET:SD	2.33	0.52
45:HL:269:GLY:HA2	45:HL:300:MET:HG2	1.92	0.52
44:HM:70:LEU:HD13	44:HM:110:ILE:HD11	1.91	0.52
44:HM:185:TYR:HE2	44:HM:404:PHE:HB2	1.74	0.52
44:IA:8:HIS:HB2	44:IA:67:PHE:CE1	2.44	0.52
44:IA:70:LEU:HD12	44:IA:145:THR:OG1	2.10	0.52
45:ID:8:GLN:NE2	45:ID:13:GLY:O	2.39	0.52
45:ID:69:GLU:OE1	45:ID:71:GLY:N	2.42	0.52
44:IE:183:GLU:N	44:IE:184:PRO:HD2	2.25	0.52
45:IF:36:TYR:CD1	45:IF:44:LEU:HD21	2.44	0.52
45:IF:49:VAL:HG21	45:IF:240:LEU:HD22	1.91	0.52
44:IG:207:GLU:OE1	44:IG:304:LYS:NZ	2.42	0.52
44:IG:221:ARG:HG3	45:IH:322:SER:HB3	1.92	0.52
44:II:167:LEU:HG	44:II:200:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:179:THR:HG21	46:II:501:GTP:C3'	2.39	0.52
45:IL:86:ARG:NE	45:IL:89:ASN:OD1	2.29	0.52
44:IM:407:TRP:HH2	45:IN:254:ALA:CB	2.21	0.52
44:IM:407:TRP:CZ3	45:IN:255:VAL:HG22	2.45	0.52
45:IN:223:GLY:O	45:IN:227:HIS:HB2	2.09	0.52
44:JA:329:ASN:OD1	45:JD:175:VAL:HB	2.09	0.52
45:JB:152:ILE:HG22	45:JB:195:ASN:HB3	1.91	0.52
45:JB:263:LEU:HD22	45:JB:422:TYR:CD1	2.43	0.52
45:JD:86:ARG:NE	45:KD:281:TYR:O	2.42	0.52
44:JE:387:VAL:HG23	44:JE:388:PHE:HD1	1.74	0.52
44:JE:390:ARG:HD2	44:JE:391:LEU:N	2.25	0.52
44:JG:145:THR:HG22	46:JG:501:GTP:O3B	2.09	0.52
45:JH:65:LEU:HD21	45:JH:85:PHE:CE2	2.44	0.52
45:JH:211:CYS:O	45:JH:216:LYS:N	2.38	0.52
44:JI:257:THR:HG22	45:JL:397:TRP:CD1	2.45	0.52
44:JK:21:TRP:CZ2	44:JK:65:ALA:HB2	2.44	0.52
44:JK:268:MET:HG3	44:JK:379:SER:O	2.09	0.52
44:JM:372:MET:HG2	44:JM:373:ARG:HG3	1.92	0.52
45:JN:101:TRP:CE3	45:JN:187:LEU:HD13	2.44	0.52
45:JN:260:PHE:HB2	45:JN:263:LEU:HG	1.92	0.52
45:JN:325:GLU:O	45:JN:328:GLU:HG2	2.10	0.52
44:KA:98:ASP:HB3	45:KB:249:ASP:OD2	2.09	0.52
44:KA:344:VAL:HG11	44:KA:346:TRP:CE2	2.44	0.52
44:KC:11:GLN:CG	44:KC:74:VAL:HG21	2.34	0.52
44:KC:402:ARG:O	44:KC:405:VAL:HG22	2.09	0.52
44:KE:145:THR:HG22	46:KE:501:GTP:O3B	2.09	0.52
45:KF:152:ILE:HA	45:KF:155:VAL:HG22	1.91	0.52
44:KG:74:VAL:HG13	45:KH:247:ASN:ND2	2.22	0.52
45:KH:3:GLU:CB	45:KH:62:ARG:HH12	2.22	0.52
44:KK:3:GLU:HG2	44:KK:64:ARG:NH1	2.23	0.52
44:KK:60:LYS:HZ3	44:KK:62:VAL:CG2	2.21	0.52
44:KK:392:ASP:O	44:KK:395:PHE:HB3	2.10	0.52
45:KL:101:TRP:CZ3	45:KL:187:LEU:HB3	2.36	0.52
44:KM:135:PHE:H	44:KM:164:LYS:HZ1	1.57	0.52
44:KM:406:HIS:NE2	45:KN:261:PRO:HA	2.25	0.52
45:KN:114:ASP:OD1	45:KN:115:SER:N	2.42	0.52
45:KN:272:PRO:HG3	45:KN:289:LEU:CD2	2.40	0.52
44:LA:414:GLU:O	44:LA:417:GLU:HG2	2.08	0.52
45:LB:44:LEU:CD2	45:LB:47:ILE:HG21	2.30	0.52
45:LB:372:THR:O	45:LB:375:GLN:HG2	2.09	0.52
45:LD:86:ARG:HG3	45:LD:86:ARG:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:287:SER:N	44:LE:290:GLU:OE2	2.36	0.52
45:LF:113:ILE:CD1	45:LF:150:LEU:HD22	2.28	0.52
44:LG:177:VAL:CG2	45:LH:327:ASP:HB3	2.34	0.52
44:LI:273:ALA:O	44:LI:375:VAL:HG22	2.09	0.52
45:LJ:5:VAL:HG12	45:LJ:62:ARG:HD3	1.91	0.52
44:LK:351:PHE:O	45:LN:176:SER:O	2.27	0.52
44:LM:287:SER:O	44:LM:291:ILE:HG23	2.09	0.52
44:LM:306:ASP:HB3	44:LM:309:HIS:CE1	2.45	0.52
45:LN:69:GLU:CD	45:LN:71:GLY:H	2.12	0.52
44:MA:225:THR:O	44:MA:228:ASN:HB2	2.09	0.52
45:MB:258:ILE:HG13	45:MB:266:PHE:CZ	2.43	0.52
45:MB:396:HIS:HA	45:MB:399:THR:HG22	1.90	0.52
44:MC:30:ILE:HG13	44:MC:30:ILE:O	2.08	0.52
44:MG:318:MET:HA	44:MG:318:MET:CE	2.40	0.52
44:MG:340:THR:O	44:MG:341:ILE:HD13	2.09	0.52
45:MH:371:SER:O	45:MH:374:ILE:HG12	2.09	0.52
44:MI:222:PRO:HG2	45:MJ:324:LYS:CD	2.37	0.52
44:MI:293:ASN:OD1	44:MI:335:ILE:HD11	2.09	0.52
44:MI:332:ILE:HD11	44:MI:351:PHE:CD2	2.45	0.52
45:MJ:3:GLU:HB2	45:MJ:49:VAL:O	2.09	0.52
45:MJ:60:VAL:O	45:MJ:60:VAL:HG23	2.09	0.52
45:MJ:113:ILE:HA	45:MJ:116:VAL:HG12	1.91	0.52
44:MK:384:ILE:O	44:MK:387:VAL:HG22	2.09	0.52
44:MK:386:GLU:O	44:MK:390:ARG:HG2	2.09	0.52
44:MM:137:VAL:N	44:MM:167:LEU:O	2.31	0.52
45:MN:164:MET:HE3	45:MN:165:GLU:O	2.10	0.52
45:MN:200:MET:HE1	45:MN:266:PHE:H	1.74	0.52
44:NA:260:VAL:HG13	44:NA:260:VAL:O	2.10	0.52
45:NB:8:GLN:O	45:NB:65:LEU:HA	2.09	0.52
45:ND:5:VAL:HG13	45:ND:7:ILE:CD1	2.40	0.52
45:NF:285:THR:HB	45:NF:287:PRO:HD2	1.91	0.52
45:NF:309:ARG:CZ	45:NF:342:VAL:HA	2.39	0.52
44:NG:260:VAL:O	44:NG:260:VAL:HG13	2.09	0.52
45:NH:341:PHE:CB	45:NH:348:ASN:HD21	2.19	0.52
44:NI:63:PRO:HD2	44:NI:86:LEU:O	2.09	0.52
44:NI:121:ARG:NE	44:NI:121:ARG:HA	2.24	0.52
45:NJ:205:GLU:O	45:NJ:208:TYR:HB2	2.09	0.52
45:NL:14:ASN:O	45:NL:18:ALA:HB2	2.09	0.52
45:NN:46:ARG:O	45:NN:49:VAL:HG22	2.09	0.52
45:OB:202:ILE:HD11	45:OB:300:MET:HB3	1.90	0.52
45:OB:318:ARG:N	45:OB:364:ALA:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:387:VAL:HG23	44:OC:390:ARG:NH2	2.25	0.52
45:OD:305:PRO:HA	45:OD:373:ALA:HB2	1.90	0.52
44:OE:108:TYR:CD2	44:OE:412:GLY:HA3	2.41	0.52
45:OF:284:LEU:CD2	45:OF:362:LYS:HB2	2.40	0.52
45:OH:191:GLN:O	45:OH:195:ASN:HB2	2.10	0.52
44:OI:171:ILE:HD12	44:OI:204:LEU:HB2	1.91	0.52
44:OI:210:TYR:HE1	45:OJ:324:LYS:HB2	1.73	0.52
44:OI:217:LEU:HA	44:OI:277:SER:OG	2.10	0.52
45:OL:67:ASP:C	45:OL:68:LEU:HD22	2.29	0.52
45:OL:103:LYS:HA	45:OL:107:THR:OG1	2.10	0.52
45:OL:204:ASN:ND2	48:OL:502:GDP:O2'	2.40	0.52
45:OL:237:THR:HG22	45:OL:250:LEU:HD11	1.90	0.52
44:OM:11:GLN:O	44:OM:14:ILE:HG22	2.09	0.52
44:OM:77:GLU:O	44:OM:81:GLY:N	2.42	0.52
44:OM:115:VAL:HG11	44:OM:152:LEU:HD21	1.91	0.52
45:ON:87:PRO:HA	45:ON:90:PHE:CD1	2.43	0.52
45:ON:294:PHE:CE1	45:ON:333:VAL:HG11	2.45	0.52
44:PA:106:GLY:O	44:PA:111:GLY:HA3	2.09	0.52
44:PA:229:ARG:O	44:PA:232:ALA:HB3	2.10	0.52
44:PA:312:TYR:HB3	44:PA:343:PHE:CE2	2.44	0.52
45:PB:107:THR:O	45:PB:110:ALA:HB3	2.09	0.52
44:PC:115:VAL:O	44:PC:119:LEU:HD23	2.09	0.52
45:PD:320:ARG:H	45:PD:320:ARG:HD3	1.75	0.52
44:PE:8:HIS:HB2	44:PE:67:PHE:CD1	2.44	0.52
44:PE:135:PHE:O	44:PE:167:LEU:N	2.36	0.52
45:PF:20:PHE:HD1	45:PF:23:VAL:N	2.08	0.52
45:PF:134:GLN:O	45:PF:134:GLN:HG3	2.10	0.52
44:PG:19:ALA:HA	44:PG:22:GLU:OE1	2.10	0.52
44:PG:278:ALA:N	44:PG:369:ALA:HB2	2.25	0.52
45:PH:48:ASN:HA	45:PH:51:TYR:O	2.09	0.52
45:PH:269:GLY:HA2	45:PH:300:MET:CE	2.38	0.52
44:PI:183:GLU:HG2	44:PI:184:PRO:CD	2.38	0.52
44:PI:278:ALA:CA	44:PI:369:ALA:HB2	2.40	0.52
44:PI:288:VAL:CA	44:PI:291:ILE:HG12	2.28	0.52
44:PI:319:TYR:CD2	44:PI:328:VAL:HG22	2.43	0.52
44:PM:269:LEU:CG	44:PM:301:MET:HE2	2.32	0.52
44:QA:318:MET:HE3	44:QA:354:GLY:O	2.10	0.52
45:QB:315:ALA:HB3	45:QB:351:SER:CB	2.40	0.52
44:QC:251:ASP:HB2	44:QC:253:THR:HG22	1.92	0.52
44:QC:276:ILE:CD1	44:QC:281:ALA:HA	2.38	0.52
44:QG:88:HIS:H	44:QG:91:GLN:NE2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:238:LEU:HD13	44:QG:318:MET:CE	2.39	0.52
44:QG:268:MET:HB2	44:QG:380:ASN:N	2.25	0.52
44:QG:288:VAL:HA	44:QG:291:ILE:CG1	2.40	0.52
45:QH:173:PRO:CD	45:QH:380:ARG:HD3	2.38	0.52
44:QI:191:THR:HA	44:QI:194:LEU:CD2	2.40	0.52
45:QJ:209:ASP:OD1	45:QJ:213:ARG:HD3	2.09	0.52
45:QJ:327:ASP:HA	45:QJ:330:MET:CE	2.39	0.52
44:QK:23:LEU:HD21	44:QK:236:SER:HB2	1.91	0.52
44:QK:23:LEU:CD2	44:QK:236:SER:HB2	2.40	0.52
44:QK:88:HIS:ND1	44:QK:89:PRO:HD2	2.24	0.52
44:QM:169:PHE:HA	44:QM:202:VAL:HB	1.91	0.52
44:QM:296:PHE:CE2	44:QM:335:ILE:HG21	2.44	0.52
44:QM:408:TYR:HD2	44:QM:418:PHE:HZ	1.55	0.52
45:QN:135:ILE:HB	45:QN:166:THR:CG2	2.38	0.52
45:QN:149:THR:HA	45:QN:152:ILE:HG13	1.89	0.52
45:RB:20:PHE:CE1	45:RB:24:ILE:HD11	2.45	0.52
45:RB:139:LEU:HD13	45:RB:168:SER:HB3	1.91	0.52
45:RB:214:THR:O	45:RB:275:SER:HB3	2.09	0.52
44:RC:182:VAL:O	44:RC:182:VAL:HG22	2.09	0.52
45:RD:189:VAL:HG11	45:RD:378:PHE:CE1	2.43	0.52
45:RF:312:THR:O	45:RF:370:ASN:N	2.43	0.52
44:RG:437:ILE:HG13	44:RG:437:ILE:O	2.10	0.52
45:RH:236:VAL:HG13	45:RH:253:LEU:CD2	2.39	0.52
45:RJ:252:LYS:HG2	45:RJ:350:LYS:HE2	1.91	0.52
44:RK:6:SER:O	44:RK:7:ILE:HD13	2.09	0.52
44:RM:206:ASN:O	44:RM:209:ILE:N	2.37	0.52
44:RM:238:LEU:HD21	44:RM:255:PHE:CZ	2.45	0.52
44:RM:301:MET:SD	44:RM:303:ALA:N	2.77	0.52
45:RN:407:GLU:HA	45:RN:410:GLU:HG3	1.92	0.52
44:SA:258:ASN:HA	45:SB:394:PHE:CE2	2.40	0.52
44:SA:287:SER:O	44:SA:290:GLU:HG2	2.09	0.52
44:SA:426:ALA:O	44:SA:430:LYS:N	2.33	0.52
45:SB:5:VAL:HG23	45:SB:7:ILE:CD1	2.40	0.52
44:SC:272:TYR:HD1	44:SC:376:CYS:HB2	1.73	0.52
44:SC:312:TYR:HB2	44:SC:343:PHE:CE1	2.45	0.52
44:SC:315:CYS:SG	44:SC:379:SER:HB3	2.49	0.52
45:SD:268:ILE:HG13	45:SD:300:MET:HE1	1.92	0.52
44:SE:183:GLU:HG2	44:SE:184:PRO:N	2.25	0.52
45:SF:169:VAL:HG22	45:SF:202:ILE:O	2.09	0.52
44:SG:183:GLU:HG2	44:SG:184:PRO:HD3	1.90	0.52
45:SH:134:GLN:HA	45:SH:165:GLU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:315:CYS:SG	44:SI:379:SER:HB3	2.50	0.52
45:SJ:68:LEU:O	45:SJ:93:GLY:HA3	2.10	0.52
45:SJ:418:LEU:O	45:SJ:422:TYR:HB2	2.09	0.52
44:SK:186:ASN:OD1	44:SK:187:SER:N	2.42	0.52
44:SM:169:PHE:CE1	44:SM:202:VAL:HG21	2.44	0.52
44:SM:375:VAL:HG22	44:SM:377:MET:HE1	1.91	0.52
44:TA:88:HIS:HB3	44:TA:91:GLN:OE1	2.09	0.52
44:TC:52:PHE:O	44:TC:64:ARG:HB2	2.10	0.52
44:TC:262:TYR:HB3	44:TC:263:PRO:HD2	1.91	0.52
44:TE:332:ILE:HG23	44:TE:351:PHE:CE2	2.43	0.52
45:TF:19:LYS:HE3	45:TF:226:ASN:O	2.09	0.52
45:TH:86:ARG:HA	45:UH:281:TYR:CD2	2.44	0.52
45:TH:309:ARG:N	45:TH:372:THR:HG1	2.05	0.52
44:TI:271:SER:CB	44:TI:301:MET:HA	2.29	0.52
45:TJ:73:MET:HA	45:TJ:76:VAL:CG1	2.38	0.52
45:TJ:260:PHE:HA	44:TK:406:HIS:NE2	2.25	0.52
44:TK:88:HIS:H	44:TK:91:GLN:NE2	2.07	0.52
45:TL:54:ALA:CA	45:UL:283:ALA:HB2	2.34	0.52
45:TL:284:LEU:HB3	45:TL:363:MET:HE1	1.91	0.52
44:TM:3:GLU:O	44:TM:132:LEU:HA	2.09	0.52
44:TM:349:THR:HG23	45:TN:179:VAL:HA	1.92	0.52
45:TN:28:HIS:HA	45:TN:43:GLN:HG2	1.92	0.52
45:TN:64:ILE:HG22	45:TN:66:MET:SD	2.49	0.52
45:UB:134:GLN:OE1	45:UB:233:MET:HE3	2.09	0.52
44:UE:9:VAL:CG1	44:UE:139:ASN:HB3	2.39	0.52
44:UE:121:ARG:HD2	44:UE:124:LYS:HZ1	1.72	0.52
45:UF:36:TYR:CD2	45:UF:44:LEU:HD11	2.44	0.52
45:UF:144:GLY:N	48:UF:501:GDP:O1B	2.43	0.52
45:UF:318:ARG:HH11	45:UF:358:PRO:CG	2.17	0.52
45:UH:5:VAL:HA	45:UH:62:ARG:CG	2.30	0.52
45:UJ:99:ASN:N	45:UJ:142:GLY:HA3	2.24	0.52
44:UK:287:SER:O	44:UK:291:ILE:HG12	2.09	0.52
45:UL:295:ASP:OD1	45:UL:296:ALA:N	2.42	0.52
44:UM:253:THR:HG23	44:UM:254:GLU:CD	2.29	0.52
44:UM:269:LEU:HD23	44:UM:269:LEU:H	1.73	0.52
45:VB:10:GLY:O	45:VB:14:ASN:ND2	2.41	0.52
45:VB:221:THR:HG23	45:VB:224:ASP:H	1.75	0.52
45:VB:244:GLY:HA2	45:VB:355:ASP:H	1.74	0.52
44:VC:222:PRO:C	45:VD:322:SER:HB2	2.29	0.52
44:VE:256:GLN:HB2	44:VE:260:VAL:CG2	2.40	0.52
45:VF:267:MET:O	45:VF:369:GLY:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:344:TRP:CE3	45:VF:345:ILE:HB	2.43	0.52
45:VH:164:MET:HB2	45:VH:197:ASP:N	2.11	0.52
45:VJ:173:PRO:HG3	45:VJ:380:ARG:HD3	1.90	0.52
44:VK:72:PRO:HB2	45:VL:46:ARG:NH2	2.24	0.52
44:VK:183:GLU:N	44:VK:184:PRO:HD2	2.24	0.52
44:VK:274:PRO:HD2	44:VK:374:ALA:CB	2.39	0.52
44:VK:407:TRP:O	44:VK:410:GLY:N	2.41	0.52
45:VL:217:LEU:HD12	45:VL:217:LEU:O	2.08	0.52
44:VM:101:ASN:HA	44:VM:144:GLY:H	1.74	0.52
44:VM:293:ASN:OD1	44:VM:335:ILE:HD11	2.09	0.52
44:VM:396:ASP:OD2	44:VM:422:ARG:NH2	2.32	0.52
45:VN:184:ASN:OD1	45:VN:185:ALA:N	2.43	0.52
45:VN:246:LEU:CB	45:VN:353:ILE:HD13	2.35	0.52
44:WC:269:LEU:CD2	44:WC:384:ILE:HD11	2.29	0.52
44:WC:404:PHE:CD2	45:WD:259:PRO:HA	2.44	0.52
45:WD:310:TYR:CE1	45:WD:371:SER:HB2	2.44	0.52
44:WE:16:VAL:HB	44:WE:231:ILE:CD1	2.38	0.52
44:WE:320:ARG:CD	44:WE:360:PRO:HG3	2.39	0.52
44:WE:343:PHE:CE2	44:WE:351:PHE:HE1	2.27	0.52
45:WF:133:PHE:HB2	45:WF:164:MET:SD	2.50	0.52
44:WI:203:MET:HE2	44:WI:205:ASP:H	1.74	0.52
45:WN:256:ASN:HD22	45:WN:350:LYS:HD2	1.74	0.52
3:0B:200:PHE:CZ	44:KI:370:LYS:HD2	2.43	0.52
5:0D:39:PRO:HB3	44:DC:89:PRO:HB2	1.89	0.52
9:0H:352:GLU:HG3	44:GM:58:ALA:HB2	1.90	0.52
11:0Q:116:PRO:HG3	44:AA:263:PRO:HG3	1.89	0.52
16:0X:49:ILE:HG13	44:MA:282:TYR:HB2	1.91	0.52
19:1I:136:ARG:CZ	45:KF:276:ARG:HH22	2.21	0.52
21:1K:194:LYS:HD3	45:GD:276:ARG:HH21	1.73	0.52
22:1L:713:LEU:HD21	45:CD:276:ARG:HD3	1.91	0.52
15:2V:38:PHE:CE1	45:MF:328:GLU:HB3	2.44	0.52
16:3X:5:LYS:HD2	44:MM:245:ASP:OD2	2.09	0.52
34:4F:168:GLU:C	44:IM:82:THR:HB	2.30	0.52
31:4H:187:LEU:CD1	45:AL:279:GLN:HB3	2.38	0.52
35:4R:21:LEU:HD21	44:LC:322:ASP:HB2	1.91	0.52
16:4X:27:PHE:HZ	45:LL:273:LEU:HD11	1.71	0.52
37:5D:54:ARG:CD	44:KK:439:THR:H	2.21	0.52
37:5D:74:SER:CB	45:NN:362:LYS:HD3	2.39	0.52
37:5D:107:TYR:H	44:NM:280:LYS:N	2.02	0.52
38:5E:124:TYR:CE1	44:OA:282:TYR:HB2	2.44	0.52
38:5F:157:ARG:O	38:5F:160:GLN:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:75:PHE:HB2	11:5Q:169:ASP:N	2.24	0.52
11:5Q:90:GLU:HB3	11:5Q:104:ARG:HG2	1.92	0.52
41:6G:201:MET:CE	45:VF:335:ASN:HB2	2.40	0.52
41:6G:244:MET:O	41:6G:245:SER:OG	2.20	0.52
11:6Q:48:GLU:HG2	11:6Q:50:MET:HG2	1.92	0.52
11:6Q:134:PHE:HD2	11:6Q:136:LEU:HB2	1.73	0.52
35:7R:168:GLY:O	35:7R:179:ARG:NH2	2.42	0.52
35:7R:274:TYR:HB3	35:7R:287:ILE:CG2	2.39	0.52
43:8P:146:UNK:O	43:8P:150:UNK:N	2.42	0.52
43:8R:38:UNK:O	43:8R:41:UNK:N	2.42	0.52
45:AB:192:LEU:CD1	45:AB:196:ALA:HB2	2.39	0.52
45:AB:320:ARG:O	45:AB:320:ARG:HG3	2.10	0.52
45:AB:377:MET:HA	45:AB:380:ARG:HD2	1.92	0.52
44:AC:205:ASP:OD2	44:AC:304:LYS:N	2.23	0.52
44:AE:311:LYS:HB2	44:AE:382:THR:HG23	1.91	0.52
44:AG:71:GLU:OE2	45:AH:2:ARG:NH2	2.42	0.52
44:AG:257:THR:HG21	45:AJ:98:GLY:O	2.09	0.52
44:AG:294:SER:HA	44:AG:297:GLU:HG3	1.90	0.52
45:AH:22:GLU:HG2	45:AH:81:PHE:HD2	1.74	0.52
45:AH:45:GLU:O	45:AH:46:ARG:HD3	2.09	0.52
45:AH:392:LYS:CE	45:AH:395:LEU:HD23	2.39	0.52
44:AI:102:ASN:CB	44:AI:105:ARG:HG3	2.38	0.52
45:AJ:2:ARG:NH2	45:AJ:240:LEU:HD12	2.24	0.52
45:AL:113:ILE:HG13	45:AL:116:VAL:CG1	2.40	0.52
45:AL:256:ASN:HD22	45:AL:350:LYS:HD2	1.74	0.52
44:BE:288:VAL:HG11	44:BE:327:ASP:CB	2.39	0.52
45:BF:113:ILE:CA	45:BF:116:VAL:HG12	2.38	0.52
44:BG:52:PHE:CE2	44:BG:239:THR:HG21	2.45	0.52
45:BJ:376:GLU:O	45:BJ:380:ARG:HG2	2.10	0.52
45:BL:318:ARG:HH12	45:BL:357:PRO:HA	1.75	0.52
44:CA:239:THR:HG22	44:CA:242:LEU:HD21	1.92	0.52
45:CB:19:LYS:HD2	45:CB:227:HIS:CD2	2.45	0.52
45:CB:105:HIS:O	45:CB:105:HIS:ND1	2.42	0.52
45:CB:246:LEU:CD1	44:CC:224:TYR:HE2	2.23	0.52
45:CB:251:ARG:O	45:CB:255:VAL:N	2.33	0.52
45:CB:378:PHE:HA	45:CB:381:VAL:CG2	2.39	0.52
45:CD:178:THR:H	45:CD:181:GLU:CD	2.11	0.52
45:CD:327:ASP:HB3	44:CE:177:VAL:CG1	2.39	0.52
45:CF:287:PRO:O	45:CF:290:THR:HG22	2.09	0.52
45:CH:1:MET:C	45:CH:2:ARG:HG2	2.30	0.52
45:CH:279:GLN:O	45:CH:280:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CI:141:VAL:HG21	44:CI:190:SER:OG	2.10	0.52
44:CI:291:ILE:HG13	44:CI:292:THR:N	2.25	0.52
44:CI:317:MET:CE	44:CI:375:VAL:HG21	2.39	0.52
45:CJ:318:ARG:NH1	45:CJ:358:PRO:HG3	2.22	0.52
44:CK:22:GLU:HG3	44:CK:83:TYR:CE2	2.45	0.52
44:CK:286:LEU:N	44:CK:290:GLU:OE2	2.43	0.52
45:CL:67:ASP:HB3	45:CL:73:MET:CG	2.39	0.52
45:CL:210:ILE:HG23	45:CL:214:THR:CG2	2.37	0.52
44:CM:53:PHE:CE2	44:CM:63:PRO:HB3	2.44	0.52
44:DA:141:VAL:HG21	44:DA:172:TYR:CE1	2.44	0.52
44:DA:254:GLU:HA	44:DA:257:THR:OG1	2.09	0.52
44:DA:318:MET:HE1	44:DA:354:GLY:HA3	1.92	0.52
45:DD:4:ILE:HG23	45:DD:131:GLN:HB3	1.91	0.52
45:DD:221:THR:HG22	45:DD:224:ASP:OD2	2.09	0.52
44:DE:16:VAL:HG12	44:DE:228:ASN:HD22	1.75	0.52
45:DH:290:THR:HG21	45:DH:329:GLN:OE1	2.09	0.52
45:DH:317:PHE:HE2	45:DH:326:VAL:HG22	1.75	0.52
44:DK:76:ASP:O	44:DK:80:THR:N	2.41	0.52
44:DK:192:HIS:ND1	44:DK:424:ASP:OD2	2.38	0.52
44:DK:229:ARG:NH2	44:DK:363:VAL:HG21	2.24	0.52
45:DL:202:ILE:HG21	45:DL:229:VAL:HG21	1.91	0.52
45:DL:260:PHE:HB2	45:DL:263:LEU:HD13	1.91	0.52
44:DM:291:ILE:HG13	44:DM:292:THR:N	2.23	0.52
45:DN:46:ARG:HB3	45:DN:49:VAL:CG2	2.39	0.52
45:DN:318:ARG:O	45:DN:363:MET:HA	2.10	0.52
45:EB:261:PRO:HB3	44:EC:406:HIS:CD2	2.44	0.52
44:EC:137:VAL:HG12	44:EC:168:GLY:HA2	1.90	0.52
44:EC:288:VAL:HG21	44:EC:323:VAL:CG2	2.39	0.52
44:EE:311:LYS:CD	44:EE:342:GLN:HG3	2.39	0.52
45:EF:62:ARG:HG3	45:EF:123:GLU:OE2	2.09	0.52
45:EF:64:ILE:HG13	45:EF:89:ASN:ND2	2.23	0.52
44:EG:298:PRO:HB2	44:EG:308:ARG:HH11	1.75	0.52
44:EI:288:VAL:O	44:EI:291:ILE:HG12	2.10	0.52
45:EJ:124:ALA:HB1	45:EJ:130:LEU:CD2	2.39	0.52
45:EJ:172:SER:HB2	45:EJ:205:GLU:OE1	2.10	0.52
44:EK:406:HIS:HD1	44:EK:407:TRP:HD1	1.57	0.52
45:EL:87:PRO:HA	45:EL:90:PHE:HD2	1.74	0.52
45:EL:166:THR:O	45:EL:199:CYS:HA	2.09	0.52
45:EL:268:ILE:CG2	45:EL:368:VAL:HG22	2.39	0.52
44:EM:7:ILE:HD12	44:EM:66:VAL:CG2	2.39	0.52
44:EM:147:SER:O	44:EM:151:SER:OG	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:86:ARG:HE	45:EN:87:PRO:CD	2.23	0.52
44:FA:271:SER:OG	44:FA:301:MET:HA	2.08	0.52
45:FB:23:VAL:HG21	45:FB:230:SER:CB	2.39	0.52
44:FC:100:ALA:O	45:FD:255:VAL:HG21	2.09	0.52
45:FD:45:GLU:O	45:FD:46:ARG:HD3	2.10	0.52
44:FG:261:PRO:HA	45:FJ:394:PHE:HD2	1.69	0.52
44:FG:274:PRO:HB3	44:FG:291:ILE:CD1	2.38	0.52
44:FG:329:ASN:O	44:FG:332:ILE:HG22	2.08	0.52
45:FH:334:GLN:HG3	45:FH:341:PHE:HE1	1.75	0.52
44:FI:323:VAL:CA	44:FI:373:ARG:HH12	2.20	0.52
45:FL:146:GLY:O	45:FL:150:LEU:N	2.35	0.52
45:FL:175:VAL:O	45:FL:175:VAL:HG23	2.09	0.52
44:FM:13:GLY:HA2	44:FM:16:VAL:CG1	2.38	0.52
45:FN:166:THR:HG21	45:FN:192:LEU:HD11	1.91	0.52
44:GA:100:ALA:O	45:GB:255:VAL:HG21	2.09	0.52
44:GA:172:TYR:O	44:GA:205:ASP:HA	2.10	0.52
44:GA:231:ILE:O	44:GA:235:ILE:HG12	2.09	0.52
45:GB:42:LEU:HD12	45:GB:42:LEU:H	1.74	0.52
44:GE:200:VAL:HG23	44:GE:256:GLN:HB3	1.90	0.52
45:GF:16:ILE:HD11	48:GF:501:GDP:N2	2.25	0.52
45:GF:21:TRP:CH2	45:GF:61:PRO:HB3	2.45	0.52
44:GI:5:ILE:CG1	44:GI:64:ARG:HD2	2.38	0.52
44:GI:22:GLU:HG3	44:GI:83:TYR:HE2	1.75	0.52
44:GI:252:ILE:HD12	44:GI:252:ILE:H	1.75	0.52
45:GJ:101:TRP:HB3	45:GJ:398:TYR:HE1	1.73	0.52
45:GL:360:GLY:O	45:GL:361:LEU:HD22	2.10	0.52
45:GL:404:ASP:OD1	45:GL:407:GLU:HG3	2.09	0.52
44:GM:433:GLU:O	44:GM:437:ILE:HG23	2.09	0.52
45:GN:139:LEU:HD12	45:GN:139:LEU:O	2.09	0.52
44:HA:191:THR:HA	44:HA:194:LEU:CD2	2.40	0.52
45:HB:236:VAL:HG13	45:HB:253:LEU:CD2	2.40	0.52
44:HC:174:SER:HB3	44:HC:207:GLU:HB2	1.91	0.52
45:HD:62:ARG:O	45:HD:62:ARG:HG3	2.08	0.52
45:HD:197:ASP:O	45:HD:264:HIS:HB2	2.08	0.52
45:HD:268:ILE:HA	45:HD:367:PHE:O	2.09	0.52
45:HD:270:PHE:CE2	45:HD:273:LEU:HD21	2.44	0.52
44:HE:241:SER:HA	44:HE:356:ASN:HD21	1.74	0.52
44:HG:54:SER:HB3	44:HG:64:ARG:CZ	2.39	0.52
45:HH:60:VAL:O	45:HH:60:VAL:HG13	2.09	0.52
45:HH:304:ASP:OD1	45:HH:306:ARG:HG2	2.10	0.52
44:HI:205:ASP:OD1	44:HI:303:ALA:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:413:MET:HE2	44:HI:413:MET:HA	1.90	0.52
45:HJ:237:THR:HG23	45:HJ:241:ARG:HE	1.75	0.52
45:HL:5:VAL:HG22	45:HL:133:PHE:CD1	2.44	0.52
45:HL:66:MET:HE1	45:HL:147:MET:HG2	1.91	0.52
45:HL:107:THR:HG23	45:HL:108:GLU:H	1.74	0.52
44:HM:241:SER:OG	44:HM:250:VAL:HB	2.10	0.52
45:HN:252:LYS:HG3	45:HN:256:ASN:HD21	1.74	0.52
44:IC:229:ARG:HD3	44:IC:363:VAL:HG11	1.91	0.52
45:IF:44:LEU:HD22	45:IF:47:ILE:HD12	1.90	0.52
45:IF:174:LYS:HZ2	45:IF:380:ARG:NH1	2.07	0.52
44:IG:217:LEU:HD21	44:IG:275:ILE:HG22	1.91	0.52
44:IG:251:ASP:O	44:IG:254:GLU:N	2.41	0.52
44:IG:352:LYS:HD2	45:IJ:177:ASP:O	2.09	0.52
45:IH:143:THR:HG23	45:IH:144:GLY:N	2.24	0.52
45:IH:374:ILE:HG22	45:IH:422:TYR:CZ	2.44	0.52
44:II:287:SER:O	44:II:290:GLU:HG2	2.08	0.52
45:IJ:291:GLN:NE2	45:IJ:292:GLN:HB2	2.24	0.52
45:IL:156:ARG:HG2	45:IL:195:ASN:OD1	2.10	0.52
45:IN:45:GLU:OE1	45:IN:46:ARG:NH1	2.43	0.52
45:IN:73:MET:CA	45:IN:76:VAL:HG12	2.31	0.52
44:JA:79:ARG:CG	44:JA:92:LEU:HD22	2.40	0.52
44:JA:209:ILE:HG21	44:JA:227:LEU:HD22	1.90	0.52
45:JB:4:ILE:HG23	45:JB:131:GLN:HB3	1.91	0.52
44:JC:166:LYS:HE2	44:JC:197:HIS:O	2.10	0.52
44:JC:320:ARG:HH22	44:JC:360:PRO:HB3	1.74	0.52
44:JE:54:SER:HB3	44:JE:64:ARG:CZ	2.39	0.52
45:JF:66:MET:HG2	45:JF:147:MET:CE	2.38	0.52
45:JF:272:PRO:HB3	45:JF:289:LEU:HD22	1.91	0.52
44:JI:65:ALA:O	44:JI:91:GLN:NE2	2.42	0.52
44:JK:3:GLU:OE2	44:JK:50:ASN:HB3	2.10	0.52
44:JK:32:PRO:HG3	44:JK:83:TYR:CE1	2.45	0.52
44:JK:199:ASP:O	44:JK:266:HIS:HB2	2.07	0.52
44:JK:237:SER:CA	44:JK:320:ARG:HH22	2.22	0.52
44:JM:53:PHE:HD1	44:JM:63:PRO:HA	1.73	0.52
45:JN:99:ASN:CA	45:JN:142:GLY:HA3	2.36	0.52
45:JN:250:LEU:O	45:JN:253:LEU:HB2	2.09	0.52
45:KB:207:LEU:HD12	45:KB:225:LEU:HD21	1.90	0.52
45:KB:248:SER:OG	45:KB:252:LYS:HD3	2.10	0.52
45:KB:253:LEU:O	45:KB:257:LEU:HG	2.09	0.52
44:KC:132:LEU:HG	44:KC:132:LEU:O	2.10	0.52
45:KD:219:THR:O	45:KD:219:THR:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:358:GLN:CD	44:KE:359:PRO:HD2	2.30	0.52
44:KG:1:MET:SD	45:KJ:70:PRO:HG2	2.50	0.52
44:KI:277:SER:O	44:KI:281:ALA:HB2	2.09	0.52
44:KK:269:LEU:HD13	44:KK:301:MET:CE	2.39	0.52
45:KL:6:HIS:NE2	45:KL:8:GLN:OE1	2.42	0.52
45:KL:105:HIS:CE1	45:KL:150:LEU:HD12	2.44	0.52
45:LB:289:LEU:HD11	45:LB:363:MET:CG	2.39	0.52
45:LD:31:ASP:HB3	45:LD:32:PRO:CD	2.40	0.52
45:LD:64:ILE:CD1	45:LD:120:VAL:HA	2.40	0.52
45:LD:73:MET:HE3	45:LD:92:PHE:CB	2.35	0.52
45:LD:157:GLU:OE1	45:LD:157:GLU:HA	2.09	0.52
45:LD:267:MET:HE3	45:LD:301:CYS:HB2	1.91	0.52
44:LE:56:THR:HG23	44:ME:284:GLU:CA	2.38	0.52
45:LF:165:GLU:OE2	45:LF:200:MET:HE3	2.10	0.52
45:LF:202:ILE:CD1	45:LF:300:MET:HE3	2.40	0.52
45:LF:420:SER:O	45:LF:423:GLN:HG3	2.10	0.52
44:LG:192:HIS:ND1	44:LG:424:ASP:OD2	2.42	0.52
45:LH:267:MET:N	45:LH:369:GLY:O	2.42	0.52
44:LI:170:THR:O	44:LI:171:ILE:HD13	2.09	0.52
44:LK:397:LEU:HD21	45:LL:343:GLU:O	2.10	0.52
45:LL:86:ARG:HA	45:ML:281:TYR:CD2	2.44	0.52
44:LM:167:LEU:HD13	44:LM:200:VAL:HB	1.90	0.52
44:LM:407:TRP:CH2	45:LN:258:ILE:HD12	2.44	0.52
44:MA:296:PHE:CE2	44:MA:335:ILE:HD12	2.45	0.52
45:MB:200:MET:CE	45:MB:268:ILE:HG21	2.39	0.52
44:MC:241:SER:CA	44:MC:356:ASN:HD21	2.19	0.52
45:MD:214:THR:HG23	45:MD:215:LEU:N	2.24	0.52
45:MD:324:LYS:O	45:MD:328:GLU:HG2	2.10	0.52
44:MG:13:GLY:HA2	44:MG:16:VAL:HG12	1.91	0.52
44:MG:119:LEU:HA	44:MG:122:ILE:HD12	1.90	0.52
45:MJ:242:PHE:HD2	45:MJ:356:ILE:HB	1.74	0.52
44:MK:7:ILE:CD1	44:MK:122:ILE:HD11	2.39	0.52
45:ML:62:ARG:O	45:ML:62:ARG:HG3	2.09	0.52
45:ML:202:ILE:HD13	45:ML:229:VAL:HG23	1.91	0.52
45:ML:203:ASP:OD2	45:ML:301:CYS:HA	2.10	0.52
45:ML:296:ALA:N	45:ML:306:ARG:HH12	2.07	0.52
45:MN:420:SER:O	45:MN:423:GLN:HG3	2.09	0.52
44:NA:195:LEU:HD21	44:NA:264:ARG:HH22	1.75	0.52
44:NA:220:GLU:O	44:NA:221:ARG:HD2	2.08	0.52
44:NA:298:PRO:HG3	44:NA:308:ARG:HH21	1.74	0.52
45:NB:137:HIS:HE2	45:NB:139:LEU:HD21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:266:PHE:CD1	45:NB:370:ASN:HB2	2.44	0.52
44:NC:144:GLY:HA2	44:NC:147:SER:OG	2.09	0.52
45:ND:44:LEU:HD22	45:ND:47:ILE:HG21	1.91	0.52
44:NE:91:GLN:HA	44:NE:121:ARG:NH1	2.24	0.52
44:NE:371:VAL:HG22	44:NE:372:MET:H	1.74	0.52
45:NF:2:ARG:CZ	45:NF:240:LEU:HD12	2.40	0.52
45:NF:117:LEU:CA	45:NF:120:VAL:HG12	2.39	0.52
45:NF:131:GLN:O	45:NF:163:ILE:HG22	2.10	0.52
45:NF:248:SER:HB2	45:NF:252:LYS:HD2	1.91	0.52
44:NG:105:ARG:O	44:NG:110:ILE:HG12	2.10	0.52
45:NH:391:ARG:HG3	45:NH:392:LYS:N	2.25	0.52
45:NJ:5:VAL:HG12	45:NJ:133:PHE:CD1	2.45	0.52
44:NK:27:GLU:CD	44:NK:243:ARG:HH22	2.13	0.52
45:NL:202:ILE:HD11	45:NL:268:ILE:CG1	2.37	0.52
44:NM:227:LEU:O	44:NM:231:ILE:HD12	2.10	0.52
44:NM:385:ALA:O	44:NM:388:PHE:HB2	2.10	0.52
44:OA:406:HIS:HE2	45:OB:260:PHE:HA	1.70	0.52
45:OB:179:VAL:HG13	45:OB:180:VAL:HG13	1.91	0.52
44:OC:201:ALA:O	44:OC:268:MET:HB2	2.09	0.52
44:OC:220:GLU:HB3	44:OC:221:ARG:HH11	1.74	0.52
44:OE:88:HIS:CG	44:OE:89:PRO:HD2	2.45	0.52
44:OE:311:LYS:N	44:OE:382:THR:OG1	2.43	0.52
45:OF:64:ILE:HG12	45:OF:119:VAL:HG22	1.91	0.52
44:OG:338:LYS:HG2	44:OG:340:THR:HG22	1.91	0.52
45:OH:100:ASN:ND2	45:OH:102:ALA:HB3	2.24	0.52
45:OJ:173:PRO:HD3	45:OJ:380:ARG:NH1	2.24	0.52
45:OL:178:THR:O	45:OL:181:GLU:HG3	2.09	0.52
45:OL:358:PRO:HD2	45:OL:364:ALA:CB	2.39	0.52
44:OM:25:CYS:SG	44:OM:86:LEU:HD21	2.49	0.52
44:OM:172:TYR:HD2	44:OM:391:LEU:HD21	1.74	0.52
45:ON:36:TYR:CE1	45:ON:44:LEU:HD11	2.45	0.52
45:ON:143:THR:N	48:ON:501:GDP:O2B	2.42	0.52
45:ON:334:GLN:HE22	45:ON:347:ASN:N	2.07	0.52
45:PB:287:PRO:HA	45:PB:290:THR:CG2	2.39	0.52
45:PB:320:ARG:O	45:PB:321:MET:HG3	2.09	0.52
44:PC:9:VAL:HG11	44:PC:149:LEU:HB3	1.90	0.52
44:PC:180:ALA:HA	45:PD:350:LYS:HG3	1.91	0.52
45:PF:19:LYS:HE3	45:PF:226:ASN:C	2.30	0.52
44:PG:248:LEU:HG	44:PG:354:GLY:HA2	1.91	0.52
44:PI:203:MET:HB3	44:PI:303:ALA:HB2	1.90	0.52
45:PN:309:ARG:HH22	45:PN:343:GLU:HG2	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:260:VAL:HG13	44:QA:265:ILE:O	2.09	0.52
44:QC:56:THR:HG22	44:QC:60:LYS:O	2.10	0.52
44:QC:175:PRO:HG2	44:QC:304:LYS:CE	2.39	0.52
45:QD:103:LYS:HG3	45:QD:108:GLU:CG	2.39	0.52
45:QD:217:LEU:HD12	45:QD:217:LEU:O	2.09	0.52
44:QE:71:GLU:CD	44:QE:73:THR:H	2.11	0.52
45:QH:12:CYS:HB2	48:QH:501:GDP:C8	2.45	0.52
44:QK:51:THR:HG22	44:QK:52:PHE:CE1	2.43	0.52
44:QM:149:LEU:O	44:QM:153:LEU:HG	2.09	0.52
44:QM:291:ILE:HG13	44:QM:292:THR:N	2.25	0.52
45:RB:325:GLU:OE1	44:RC:221:ARG:NH1	2.42	0.52
44:RC:141:VAL:HG11	44:RC:172:TYR:CD1	2.43	0.52
44:RC:183:GLU:O	44:RC:187:SER:HB2	2.10	0.52
44:RE:340:THR:HG23	44:RE:341:ILE:HG13	1.91	0.52
45:RF:4:ILE:HG22	45:RF:132:GLY:C	2.29	0.52
45:RF:60:VAL:HG13	45:RF:60:VAL:O	2.09	0.52
45:RF:199:CYS:O	45:RF:200:MET:HE1	2.09	0.52
45:RF:415:MET:O	45:RF:419:VAL:HG23	2.10	0.52
44:RG:12:GLY:O	44:RG:16:VAL:HG13	2.09	0.52
45:RH:130:LEU:O	45:RH:162:ARG:NE	2.43	0.52
45:RJ:24:ILE:HG23	45:RJ:27:GLU:OE1	2.09	0.52
44:RK:339:ARG:O	44:RK:339:ARG:HG3	2.09	0.52
45:RL:72:THR:O	45:RL:76:VAL:HB	2.10	0.52
44:SA:258:ASN:ND2	44:SA:352:LYS:HB2	2.20	0.52
45:SB:318:ARG:NH2	45:SB:354:CYS:SG	2.83	0.52
44:SC:35:GLN:HE21	44:SC:60:LYS:HG3	1.75	0.52
45:SD:102:ALA:O	45:SD:106:TYR:N	2.31	0.52
45:SD:113:ILE:CD1	45:SD:150:LEU:HD22	2.40	0.52
44:SE:144:GLY:O	44:SE:147:SER:OG	2.16	0.52
44:SE:230:LEU:HD13	44:SE:368:LEU:HD21	1.92	0.52
44:SE:332:ILE:HD12	44:SE:351:PHE:CD2	2.43	0.52
44:SG:420:GLU:HA	44:SG:423:GLU:CG	2.39	0.52
45:SH:197:ASP:O	45:SH:264:HIS:HB2	2.08	0.52
45:SH:324:LYS:HE2	44:SI:210:TYR:CB	2.31	0.52
44:SI:261:PRO:CG	45:SJ:394:PHE:HE1	2.17	0.52
45:SJ:36:TYR:HE2	45:SJ:44:LEU:HD11	1.73	0.52
45:SJ:237:THR:OG1	45:SJ:240:LEU:HB3	2.09	0.52
45:SJ:379:LYS:O	45:SJ:383:GLU:N	2.39	0.52
44:SK:269:LEU:H	44:SK:269:LEU:HD23	1.73	0.52
45:SL:358:PRO:CB	45:SL:361:LEU:HD12	2.37	0.52
44:TA:60:LYS:NZ	44:TA:85:GLN:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:30:ILE:HD11	45:TB:47:ILE:HD11	1.91	0.52
45:TB:350:LYS:HG3	44:TC:179:THR:O	2.10	0.52
44:TC:153:LEU:O	44:TC:157:LEU:N	2.27	0.52
44:TC:174:SER:OG	44:TC:207:GLU:N	2.38	0.52
44:TC:387:VAL:CA	44:TC:390:ARG:HH11	2.18	0.52
45:TD:102:ALA:O	45:TD:403:MET:HE1	2.09	0.52
45:TD:202:ILE:HD11	45:TD:268:ILE:HG13	1.91	0.52
45:TD:330:MET:O	45:TD:334:GLN:N	2.42	0.52
44:TE:19:ALA:HB2	44:TE:228:ASN:HB3	1.91	0.52
45:TF:210:ILE:HD12	45:TF:300:MET:SD	2.50	0.52
44:TI:250:VAL:HG21	44:TI:318:MET:HE1	1.90	0.52
45:TL:248:SER:OG	45:TL:253:LEU:HD13	2.09	0.52
44:TM:88:HIS:HB3	44:TM:91:GLN:HG2	1.92	0.52
44:TM:175:PRO:O	44:TM:394:LYS:HE3	2.09	0.52
45:TN:174:LYS:CD	45:TN:175:VAL:HG13	2.39	0.52
45:TN:374:ILE:HD12	45:TN:378:PHE:CE2	2.44	0.52
44:UA:88:HIS:ND1	44:UA:89:PRO:HD2	2.25	0.52
44:UA:371:VAL:HG11	44:UA:374:ALA:HB2	1.91	0.52
45:UB:25:SER:OG	45:UB:51:TYR:OH	2.22	0.52
45:UB:241:ARG:HG3	45:UB:241:ARG:NH1	2.24	0.52
45:UB:246:LEU:HD11	44:UC:224:TYR:CE2	2.45	0.52
45:UB:256:ASN:ND2	45:UB:350:LYS:HD2	2.19	0.52
45:UD:19:LYS:O	45:UD:22:GLU:HG2	2.09	0.52
45:UD:215:LEU:HD22	45:UD:217:LEU:HD23	1.91	0.52
44:UE:265:ILE:HD12	44:UE:435:VAL:HG21	1.91	0.52
44:UE:336:LYS:HE3	44:UE:336:LYS:HA	1.92	0.52
45:UH:113:ILE:CA	45:UH:116:VAL:HG12	2.37	0.52
44:UI:354:GLY:C	44:UI:355:ILE:HG13	2.30	0.52
45:UJ:23:VAL:HG21	45:UJ:230:SER:CB	2.39	0.52
45:UJ:30:ILE:HD12	45:UJ:59:TYR:CD2	2.44	0.52
45:UJ:255:VAL:HG11	44:UK:100:ALA:O	2.09	0.52
45:UL:32:PRO:HG3	45:UL:81:PHE:CD1	2.44	0.52
45:UL:261:PRO:HD3	44:UM:406:HIS:HD2	1.74	0.52
45:UL:392:LYS:HB3	45:UL:395:LEU:CD2	2.38	0.52
44:UM:278:ALA:HB2	44:UM:369:ALA:HB2	1.90	0.52
45:UN:403:MET:HB2	45:UN:407:GLU:OE2	2.10	0.52
45:VB:245:GLN:HB2	45:VB:353:ILE:HB	1.91	0.52
44:VC:256:GLN:HB2	44:VC:260:VAL:HG21	1.91	0.52
44:VE:395:PHE:CD1	44:VE:422:ARG:HD3	2.45	0.52
45:VF:6:HIS:CE1	45:VF:134:GLN:HE21	2.28	0.52
45:VF:139:LEU:HD13	45:VF:168:SER:CB	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:303:ALA:HB1	45:VF:373:ALA:O	2.10	0.52
44:VG:66:VAL:O	44:VG:66:VAL:HG13	2.09	0.52
44:VG:251:ASP:CG	44:VG:253:THR:HG22	2.30	0.52
45:VH:251:ARG:O	45:VH:254:ALA:N	2.42	0.52
45:VH:266:PHE:CE1	45:VH:370:ASN:HB2	2.44	0.52
44:VI:67:PHE:C	44:VI:68:LEU:HD12	2.30	0.52
44:VI:404:PHE:CD1	45:VJ:259:PRO:HA	2.44	0.52
45:VJ:286:VAL:N	45:VJ:287:PRO:HD2	2.24	0.52
44:VK:104:ALA:CB	44:VK:413:MET:HG3	2.39	0.52
45:VL:25:SER:HB2	45:VL:81:PHE:CE2	2.45	0.52
45:VL:130:LEU:HG	45:VL:162:ARG:CD	2.40	0.52
45:VL:130:LEU:HG	45:VL:162:ARG:HD2	1.91	0.52
44:VM:88:HIS:O	44:VM:92:LEU:HD13	2.09	0.52
44:VM:155:GLU:HG2	44:VM:197:HIS:CD2	2.44	0.52
45:VN:409:THR:CA	45:VN:412:GLU:HB3	2.35	0.52
44:WA:201:ALA:O	44:WA:267:PHE:HA	2.10	0.52
44:WA:326:LYS:HD3	45:WD:212:PHE:HZ	1.74	0.52
45:WB:172:SER:OG	45:WB:175:VAL:HG22	2.09	0.52
44:WC:15:GLN:O	44:WC:19:ALA:N	2.28	0.52
45:WD:136:THR:HG22	45:WD:167:PHE:HB2	1.92	0.52
44:WE:387:VAL:O	44:WE:391:LEU:HD13	2.10	0.52
44:WG:136:LEU:HD23	44:WG:167:LEU:HB2	1.91	0.52
45:WH:186:THR:HG21	45:WH:385:PHE:CZ	2.45	0.52
44:WI:107:HIS:ND1	44:WI:107:HIS:O	2.43	0.52
44:WI:354:GLY:O	44:WI:355:ILE:HD13	2.09	0.52
44:WK:317:MET:HG3	44:WK:377:MET:HB3	1.92	0.52
44:WM:317:MET:HE2	44:WM:376:CYS:N	2.24	0.52
45:WN:383:GLU:HA	45:WN:386:THR:OG1	2.09	0.52
1:6H:263:TYR:OH	44:FE:19:ALA:CB	2.57	0.52
2:0A:33:GLN:NE2	45:MB:357:PRO:HD2	2.25	0.52
2:0A:52:THR:HG22	35:7R:70:ARG:HH22	1.74	0.52
3:0B:294:ILE:HG22	45:KL:227:HIS:ND1	2.23	0.52
16:0X:2:LYS:CB	45:MD:75:SER:HB3	2.40	0.52
18:1F:64:ALA:CB	45:GL:35:THR:HG23	2.40	0.52
9:1H:271:ARG:NH2	45:HF:362:LYS:HA	2.22	0.52
19:1I:189:PHE:CE2	45:KH:92:PHE:HE2	2.28	0.52
22:1L:157:PRO:HA	44:CI:221:ARG:NH2	2.24	0.52
15:1V:38:PHE:CD1	45:MJ:328:GLU:HB3	2.43	0.52
15:1V:241:LYS:HE3	45:WL:218:THR:HG22	1.92	0.52
15:2V:113:ARG:HG2	44:LE:196:GLU:CD	2.29	0.52
16:2X:48:TRP:CD2	44:MI:370:LYS:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:3R:8:LEU:CD1	45:MN:361:LEU:HD23	2.37	0.52
34:4F:204:PRO:O	44:HM:89:PRO:HB3	2.08	0.52
35:4R:241:PRO:HB2	44:CE:373:ARG:NH2	2.23	0.52
37:5D:38:THR:CG2	44:KK:265:ILE:HD11	2.39	0.52
37:5D:60:GLY:HA2	45:KN:386:THR:H	1.72	0.52
39:5J:155:TYR:OH	44:JI:422:ARG:HB2	2.09	0.52
35:5R:380:ARG:HG3	35:5R:380:ARG:O	2.10	0.52
35:5R:382:TYR:CE2	35:5R:384:PRO:HD3	2.45	0.52
40:6F:62:GLN:OE1	44:IE:85:GLN:NE2	2.40	0.52
41:6G:221:SER:HB2	44:VC:334:THR:HG23	1.90	0.52
35:6R:457:GLU:HB2	35:6R:470:PHE:HB2	1.91	0.52
35:7R:149:GLN:HB3	35:7R:159:TYR:CE1	2.44	0.52
35:7R:371:ILE:HG22	35:7R:372:THR:O	2.09	0.52
44:AA:247:ALA:HB1	45:AD:222:TYR:CD2	2.43	0.52
44:AA:286:LEU:N	44:AA:290:GLU:OE2	2.43	0.52
45:AB:112:LEU:O	45:AB:112:LEU:HD23	2.10	0.52
44:AE:406:HIS:CD2	45:AF:261:PRO:HB3	2.44	0.52
45:AH:12:CYS:HB2	48:AH:501:GDP:O4'	2.10	0.52
45:AL:177:ASP:HB2	48:AL:502:GDP:O3'	2.09	0.52
45:AL:213:ARG:HG2	45:AL:297:LYS:CD	2.28	0.52
45:AL:263:LEU:CD2	45:AL:422:TYR:HD1	2.23	0.52
45:AN:146:GLY:O	45:AN:149:THR:HG22	2.10	0.52
44:BA:79:ARG:NH2	44:BA:92:LEU:HB2	2.25	0.52
44:BA:254:GLU:HG3	45:BD:98:GLY:HA2	1.92	0.52
44:BA:301:MET:HA	44:BA:301:MET:CE	2.39	0.52
44:BA:401:LYS:NZ	45:BB:344:TRP:CD1	2.71	0.52
44:BC:407:TRP:HH2	45:BD:254:ALA:CB	2.21	0.52
45:BD:7:ILE:CG1	45:BD:135:ILE:HG13	2.40	0.52
44:BG:229:ARG:NE	44:BG:363:VAL:HG11	2.25	0.52
45:BH:382:ALA:HB2	45:BH:415:MET:CE	2.40	0.52
44:BI:191:THR:CB	44:BI:425:LEU:HD21	2.36	0.52
44:BI:254:GLU:HA	44:BI:257:THR:HG21	1.89	0.52
45:BJ:383:GLU:O	45:BJ:386:THR:HG22	2.09	0.52
44:BK:348:PRO:HD2	45:BN:388:MET:CE	2.28	0.52
45:BL:146:GLY:O	45:BL:149:THR:HG22	2.10	0.52
45:BN:316:LEU:O	45:BN:365:VAL:HA	2.10	0.52
44:CA:259:LEU:O	44:CA:380:ASN:ND2	2.43	0.52
45:CB:180:VAL:C	45:CB:182:PRO:HD2	2.30	0.52
44:CC:56:THR:CA	44:DC:285:GLN:HE22	2.16	0.52
45:CD:143:THR:HG1	45:CD:144:GLY:N	2.08	0.52
44:CE:208:ALA:HB3	44:CE:302:MET:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:348:PRO:HG2	45:CH:384:GLN:HE21	1.75	0.52
45:CH:97:ALA:CB	45:CH:143:THR:HB	2.39	0.52
44:CI:88:HIS:CD2	44:CI:89:PRO:HD2	2.45	0.52
45:CJ:135:ILE:HG21	45:CJ:152:ILE:HD11	1.90	0.52
45:CJ:260:PHE:CE1	44:CK:403:ALA:HA	2.45	0.52
45:CJ:286:VAL:HG13	45:CJ:287:PRO:CD	2.39	0.52
45:CJ:316:LEU:HB2	45:CJ:366:THR:HG22	1.91	0.52
45:CL:224:ASP:O	45:CL:228:LEU:HD23	2.09	0.52
44:CM:2:ARG:NH2	44:CM:48:ALA:HA	2.24	0.52
44:CM:204:LEU:HD13	44:CM:231:ILE:HG21	1.91	0.52
44:CM:233:GLN:O	44:CM:236:SER:OG	2.21	0.52
44:CM:325:PRO:HG2	45:CN:222:TYR:CE2	2.44	0.52
45:CN:217:LEU:HD11	45:CN:220:PRO:HG3	1.90	0.52
44:DA:14:ILE:HG13	44:DA:15:GLN:N	2.24	0.52
44:DA:71:GLU:O	44:DA:74:VAL:HG22	2.09	0.52
44:DC:305:CYS:O	44:DC:307:PRO:HD3	2.08	0.52
44:DC:363:VAL:HG23	44:DC:364:PRO:HD2	1.91	0.52
44:DE:69:ASP:CG	44:DE:74:VAL:HG21	2.29	0.52
45:DF:6:HIS:HE2	45:DF:8:GLN:HB2	1.75	0.52
45:DF:72:THR:HG23	45:DF:73:MET:N	2.25	0.52
45:DF:279:GLN:HG3	45:DF:361:LEU:HD21	1.90	0.52
45:DF:303:ALA:CB	45:DF:376:GLU:HB3	2.39	0.52
45:DF:331:LEU:HD11	45:DF:335:ASN:HD21	1.75	0.52
44:DG:63:PRO:CG	44:DG:86:LEU:HD21	2.39	0.52
44:DG:118:CYS:SG	44:DG:153:LEU:HD11	2.49	0.52
45:DH:184:ASN:OD1	45:DH:398:TYR:OH	2.22	0.52
44:DI:11:GLN:O	44:DI:14:ILE:HB	2.10	0.52
44:DI:105:ARG:HA	44:DI:109:THR:HB	1.91	0.52
44:DI:200:VAL:HG13	44:DI:268:MET:CE	2.39	0.52
44:DI:265:ILE:HG23	44:DI:432:TYR:CZ	2.45	0.52
45:DJ:22:GLU:HG2	45:DJ:81:PHE:HB2	1.91	0.52
45:DJ:252:LYS:NZ	46:DK:501:GTP:O1G	2.35	0.52
44:DK:243:ARG:HG3	44:DK:244:PHE:CE2	2.44	0.52
45:DL:40:SER:OG	45:DL:43:GLN:HG3	2.10	0.52
45:DL:99:ASN:C	45:DL:142:GLY:HA3	2.29	0.52
44:DM:275:ILE:CA	44:DM:368:LEU:HD11	2.40	0.52
44:EA:121:ARG:HH21	44:EA:124:LYS:HB3	1.75	0.52
44:EA:209:ILE:O	44:EA:212:ILE:HB	2.10	0.52
44:EA:230:LEU:HD11	44:EA:275:ILE:HD13	1.91	0.52
44:EA:257:THR:HA	45:EB:397:TRP:CE3	2.43	0.52
45:EB:25:SER:HB3	45:EB:30:ILE:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:404:ASP:OD1	45:EB:406:MET:HB2	2.10	0.52
44:EC:14:ILE:HD12	44:EC:74:VAL:HG11	1.92	0.52
45:ED:22:GLU:O	45:ED:25:SER:HB2	2.09	0.52
45:ED:237:THR:HG23	45:ED:241:ARG:HH21	1.74	0.52
44:EE:323:VAL:CG1	44:EE:373:ARG:HD3	2.40	0.52
44:EG:65:ALA:HB3	44:EG:91:GLN:OE1	2.10	0.52
44:EG:69:ASP:CB	44:EG:75:ILE:HG13	2.39	0.52
44:EG:232:ALA:HA	44:EG:235:ILE:HD13	1.91	0.52
45:EH:10:GLY:O	45:EH:14:ASN:ND2	2.43	0.52
45:EH:12:CYS:HB2	48:EH:501:GDP:C8	2.44	0.52
44:EI:169:PHE:CD1	44:EI:202:VAL:HG21	2.44	0.52
45:EJ:49:VAL:HG11	45:EJ:241:ARG:HD2	1.90	0.52
45:EJ:151:LEU:O	45:EJ:155:VAL:HG13	2.09	0.52
45:EJ:170:VAL:CG1	45:EJ:171:PRO:HD2	2.38	0.52
44:EM:231:ILE:O	44:EM:234:VAL:HG12	2.09	0.52
44:EM:423:GLU:HA	44:EM:426:ALA:CB	2.37	0.52
45:EN:318:ARG:HH11	45:EN:358:PRO:HG3	1.73	0.52
45:EN:341:PHE:HD1	45:EN:348:ASN:HD21	1.58	0.52
44:FC:100:ALA:HB1	45:FD:252:LYS:HA	1.91	0.52
45:FD:134:GLN:HA	45:FD:165:GLU:O	2.10	0.52
45:FD:156:ARG:NH1	45:FD:162:ARG:O	2.39	0.52
45:FD:398:TYR:HD2	45:FD:408:PHE:HZ	1.58	0.52
45:FF:46:ARG:O	45:FF:49:VAL:HG23	2.09	0.52
45:FF:73:MET:HA	45:FF:76:VAL:CG1	2.34	0.52
45:FH:324:LYS:NZ	45:FH:328:GLU:OE1	2.42	0.52
44:FI:27:GLU:OE1	44:FI:361:THR:HB	2.09	0.52
44:FI:208:ALA:HA	44:FI:211:ASP:HB2	1.91	0.52
44:FI:267:PHE:HE2	44:FI:388:PHE:HZ	1.57	0.52
44:FI:326:LYS:HD3	45:FL:212:PHE:HZ	1.75	0.52
45:FJ:133:PHE:HB2	45:FJ:164:MET:HG3	1.90	0.52
45:FJ:186:THR:O	45:FJ:189:VAL:HG12	2.10	0.52
45:FJ:257:LEU:CA	45:FJ:312:THR:HG21	2.26	0.52
44:FK:176:GLN:NE2	44:FK:207:GLU:OE2	2.42	0.52
44:FK:216:ASN:HD22	44:FK:275:ILE:HB	1.74	0.52
45:FL:10:GLY:O	45:FL:14:ASN:N	2.36	0.52
45:FL:139:LEU:CD1	45:FL:168:SER:HB3	2.35	0.52
44:GA:332:ILE:HA	44:GA:335:ILE:HD13	1.92	0.52
45:GB:5:VAL:HG22	45:GB:133:PHE:CD1	2.44	0.52
45:GD:151:LEU:O	45:GD:155:VAL:HG23	2.10	0.52
44:GE:33:ASP:HB3	44:GE:35:GLN:NE2	2.25	0.52
44:GG:118:CYS:SG	44:GG:153:LEU:HD11	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:186:THR:HA	45:GH:415:MET:HE1	1.90	0.52
45:GH:260:PHE:HB3	45:GH:261:PRO:CD	2.35	0.52
45:GH:329:GLN:O	45:GH:332:ASN:HB3	2.10	0.52
44:GI:264:ARG:HG2	44:GI:264:ARG:NH1	2.25	0.52
45:GJ:9:GLY:HA2	45:GJ:66:MET:O	2.10	0.52
45:GL:313:ALA:CB	45:GL:369:GLY:HA2	2.39	0.52
44:GM:115:VAL:O	44:GM:119:LEU:HD23	2.10	0.52
45:GN:296:ALA:CB	45:GN:305:PRO:HG2	2.40	0.52
44:HA:161:TYR:HD2	44:HA:164:LYS:HG3	1.69	0.52
44:HA:238:LEU:HD21	44:HA:255:PHE:CZ	2.44	0.52
44:HA:319:TYR:HD2	44:HA:323:VAL:HG21	1.72	0.52
45:HB:190:HIS:O	45:HB:193:VAL:HG12	2.10	0.52
45:HB:269:GLY:HA2	45:HB:300:MET:CE	2.37	0.52
45:HB:383:GLU:O	45:HB:386:THR:HG22	2.10	0.52
44:HC:54:SER:HB3	44:HC:64:ARG:CZ	2.39	0.52
44:HE:238:LEU:O	44:HE:238:LEU:HD23	2.09	0.52
44:HG:62:VAL:HG11	44:IG:283:HIS:O	2.09	0.52
44:HI:319:TYR:CD1	44:HI:323:VAL:HG11	2.41	0.52
45:HL:101:TRP:HE1	45:HL:105:HIS:HB2	1.72	0.52
45:HN:11:GLN:HE22	48:HN:501:GDP:PB	2.33	0.52
44:IA:301:MET:HE1	44:IA:377:MET:HE1	1.92	0.52
44:IC:76:ASP:CB	45:ID:46:ARG:HH22	2.18	0.52
44:IC:270:SER:HB3	44:IC:378:ILE:HD13	1.90	0.52
45:ID:383:GLU:O	45:ID:386:THR:HG22	2.09	0.52
44:IE:101:ASN:ND2	45:IF:252:LYS:HG3	2.24	0.52
44:IE:258:ASN:O	44:IE:259:LEU:HD23	2.10	0.52
45:IF:36:TYR:CE2	45:IF:44:LEU:HD11	2.45	0.52
44:IG:265:ILE:HG22	44:IG:380:ASN:HD21	1.74	0.52
45:IH:374:ILE:HG22	45:IH:422:TYR:HH	1.75	0.52
44:IK:261:PRO:HB3	45:IN:394:PHE:CE1	2.44	0.52
44:IK:320:ARG:NH1	44:IK:360:PRO:HA	2.19	0.52
45:IL:61:PRO:HD2	45:IL:84:LEU:O	2.09	0.52
45:IL:134:GLN:HG3	45:IL:165:GLU:CB	2.39	0.52
45:IN:265:PHE:C	45:IN:266:PHE:HD1	2.12	0.52
44:JA:288:VAL:HG11	44:JA:327:ASP:HB3	1.90	0.52
45:JF:181:GLU:N	45:JF:182:PRO:HD2	2.25	0.52
45:JF:243:PRO:O	45:JF:355:ASP:HB2	2.10	0.52
45:JH:20:PHE:CE1	45:JH:233:MET:HG3	2.44	0.52
45:JJ:213:ARG:HE	45:JJ:297:LYS:HB3	1.73	0.52
45:JJ:237:THR:HG23	45:JJ:241:ARG:NE	2.25	0.52
44:JK:352:LYS:HA	45:JN:177:ASP:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:244:GLY:HA2	45:JL:355:ASP:OD1	2.09	0.52
44:JM:397:LEU:HG	45:JN:344:TRP:HA	1.92	0.52
45:JN:239:CYS:SG	45:JN:354:CYS:HB2	2.49	0.52
44:KA:262:TYR:CE1	45:KD:393:ALA:HA	2.43	0.52
44:KA:307:PRO:HB2	44:KA:312:TYR:CE1	2.44	0.52
44:KC:88:HIS:HB3	44:KC:91:GLN:HG2	1.92	0.52
44:KC:315:CYS:O	44:KC:351:PHE:HA	2.09	0.52
45:KD:286:VAL:HB	45:KD:325:GLU:OE1	2.09	0.52
44:KE:396:ASP:OD1	44:KE:422:ARG:NE	2.42	0.52
45:KF:272:PRO:C	45:KF:273:LEU:HD22	2.30	0.52
45:KF:286:VAL:HG11	45:KF:325:GLU:HG2	1.90	0.52
44:KG:203:MET:HG3	44:KG:384:ILE:HD11	1.90	0.52
45:KH:139:LEU:HD13	45:KH:168:SER:HB3	1.90	0.52
45:KH:296:ALA:HA	45:KH:299:MET:HE2	1.90	0.52
44:KK:99:ALA:HB2	44:KK:110:ILE:HD11	1.92	0.52
44:KK:256:GLN:HB2	45:KN:397:TRP:CH2	2.44	0.52
45:KL:2:ARG:HA	45:KL:131:GLN:HB2	1.91	0.52
44:KM:182:VAL:O	44:KM:182:VAL:HG22	2.08	0.52
44:KM:224:TYR:CD2	45:KN:323:THR:HG21	2.45	0.52
44:KM:335:ILE:O	44:KM:338:LYS:HG2	2.10	0.52
45:KN:419:VAL:HG12	45:KN:423:GLN:HB2	1.92	0.52
44:LC:6:SER:O	44:LC:66:VAL:HG12	2.09	0.52
44:LC:69:ASP:OD1	44:LC:71:GLU:N	2.33	0.52
45:LD:282:ARG:HE	45:LD:283:ALA:H	1.57	0.52
45:LD:320:ARG:N	45:LD:320:ARG:HD3	2.25	0.52
44:LE:104:ALA:HA	44:LE:413:MET:HE1	1.90	0.52
44:LG:76:ASP:O	44:LG:80:THR:HG22	2.09	0.52
44:LG:338:LYS:HG2	44:LG:340:THR:HG22	1.91	0.52
45:LH:193:VAL:HA	45:LH:264:HIS:NE2	2.24	0.52
45:LH:238:CYS:SG	45:LH:239:CYS:N	2.82	0.52
44:LI:137:VAL:HG22	44:LI:167:LEU:O	2.10	0.52
45:LL:4:ILE:HD11	45:LL:50:TYR:CZ	2.44	0.52
45:LL:33:THR:CG2	45:LL:35:THR:HG22	2.39	0.52
44:LM:133:GLN:CB	44:LM:252:ILE:HD11	2.37	0.52
45:LN:190:HIS:CE1	45:LN:191:GLN:HE21	2.27	0.52
45:LN:244:GLY:HA2	45:LN:355:ASP:OD2	2.09	0.52
44:MA:36:MET:HG3	44:MA:37:PRO:HD2	1.91	0.52
44:MA:118:CYS:SG	44:MA:153:LEU:HD11	2.50	0.52
45:MB:51:TYR:HE1	45:MB:61:PRO:HG3	1.75	0.52
45:MB:330:MET:HG3	45:MB:349:ILE:CD1	2.38	0.52
44:ME:210:TYR:CE1	44:ME:227:LEU:HD21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:262:ARG:C	45:MF:263:LEU:HD12	2.28	0.52
45:MF:290:THR:HG21	45:MF:329:GLN:OE1	2.10	0.52
45:MF:330:MET:CE	45:MF:330:MET:HA	2.39	0.52
45:MH:206:ALA:O	45:MH:210:ILE:N	2.38	0.52
45:MJ:73:MET:CE	45:MJ:92:PHE:HB3	2.38	0.52
45:MJ:146:GLY:HA2	45:MJ:149:THR:HG22	1.90	0.52
45:MJ:406:MET:HA	45:MJ:406:MET:CE	2.39	0.52
45:ML:91:VAL:CB	45:ML:116:VAL:HG22	2.40	0.52
45:ML:161:ASP:OD2	45:ML:162:ARG:NH1	2.42	0.52
45:MN:4:ILE:HD11	45:MN:50:TYR:OH	2.09	0.52
45:MN:114:ASP:OD1	45:MN:115:SER:N	2.39	0.52
44:NA:242:LEU:HD11	44:NA:252:ILE:N	2.24	0.52
44:NA:370:LYS:HD2	44:NA:372:MET:CE	2.40	0.52
45:NB:72:THR:OG1	45:NB:73:MET:SD	2.68	0.52
45:NB:264:HIS:O	45:NB:265:PHE:HD1	1.93	0.52
44:NC:31:GLN:CD	44:NC:32:PRO:HD2	2.29	0.52
44:NC:118:CYS:SG	44:NC:153:LEU:HD11	2.49	0.52
44:NC:274:PRO:O	44:NC:276:ILE:HD12	2.09	0.52
44:NC:413:MET:HG2	44:NC:417:GLU:OE2	2.08	0.52
45:ND:34:GLY:HA3	45:ND:58:ARG:CG	2.40	0.52
45:ND:134:GLN:HB2	45:ND:165:GLU:OE1	2.09	0.52
45:ND:245:GLN:HG3	45:ND:353:ILE:HG21	1.92	0.52
44:NE:206:ASN:OD1	46:NE:501:GTP:N2	2.41	0.52
44:NE:247:ALA:C	44:NE:248:LEU:HD12	2.30	0.52
44:NE:262:TYR:HB3	44:NE:263:PRO:HD2	1.91	0.52
44:NE:349:THR:OG1	45:NH:176:SER:OG	2.10	0.52
45:NF:267:MET:CB	45:NF:299:MET:HE2	2.40	0.52
45:NF:405:GLU:O	45:NF:408:PHE:N	2.42	0.52
44:NG:27:GLU:HB2	44:NG:361:THR:HG21	1.92	0.52
44:NG:88:HIS:HB3	44:NG:91:GLN:OE1	2.10	0.52
44:NG:313:MET:HE2	44:NG:346:TRP:CH2	2.44	0.52
44:NG:331:SER:O	44:NG:335:ILE:HG12	2.10	0.52
45:NJ:203:ASP:OD2	45:NJ:302:ALA:N	2.28	0.52
45:NJ:267:MET:HE2	45:NJ:303:ALA:HB3	1.90	0.52
45:NJ:323:THR:HG22	45:NJ:353:ILE:HD13	1.92	0.52
45:OB:68:LEU:CD1	45:OB:97:ALA:HB2	2.39	0.52
44:OC:377:MET:O	44:OC:378:ILE:HD13	2.10	0.52
44:OC:430:LYS:CA	44:OC:433:GLU:HG2	2.37	0.52
45:OD:161:ASP:O	45:OD:162:ARG:HD3	2.09	0.52
44:OE:229:ARG:HH22	44:OE:363:VAL:HG21	1.75	0.52
44:OG:28:HIS:CA	44:OG:243:ARG:HH22	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:207:GLU:CB	44:OG:304:LYS:HE2	2.39	0.52
45:OH:237:THR:CG2	45:OH:240:LEU:HB3	2.38	0.52
44:OK:56:THR:O	44:PK:285:GLN:HA	2.09	0.52
44:OK:338:LYS:CG	44:OK:340:THR:HG22	2.40	0.52
45:OL:182:PRO:HG3	45:OL:384:GLN:NE2	2.25	0.52
45:OL:233:MET:O	45:OL:236:VAL:HG22	2.09	0.52
44:OM:5:ILE:HD12	44:OM:135:PHE:CE1	2.44	0.52
44:OM:207:GLU:O	44:OM:210:TYR:HB2	2.09	0.52
44:PA:174:SER:HB3	44:PA:175:PRO:HD2	1.92	0.52
44:PA:291:ILE:HG13	44:PA:292:THR:N	2.24	0.52
44:PC:31:GLN:CG	44:PC:32:PRO:HD2	2.39	0.52
44:PC:296:PHE:HD2	44:PC:335:ILE:HD12	1.75	0.52
45:PD:87:PRO:HA	45:PD:90:PHE:CD1	2.45	0.52
45:PD:295:ASP:OD1	45:PD:297:LYS:HG2	2.09	0.52
44:PE:100:ALA:O	45:PF:255:VAL:HG21	2.09	0.52
44:PG:352:LYS:HD2	45:PJ:177:ASP:O	2.09	0.52
44:PG:404:PHE:CE1	45:PH:259:PRO:HB3	2.45	0.52
45:PH:11:GLN:O	45:PH:14:ASN:N	2.38	0.52
44:PI:2:ARG:NE	44:PI:242:LEU:O	2.42	0.52
44:PI:115:VAL:HG11	44:PI:152:LEU:CD2	2.39	0.52
44:PI:398:MET:HE1	45:PJ:345:ILE:HD13	1.91	0.52
45:PL:130:LEU:O	45:PL:162:ARG:NH2	2.42	0.52
45:QB:207:LEU:CB	45:QB:225:LEU:HD22	2.36	0.52
45:QD:10:GLY:HA3	48:QD:501:GDP:O1B	2.08	0.52
45:QD:68:LEU:HD23	45:QD:97:ALA:CA	2.39	0.52
44:QE:350:GLY:CA	45:QF:179:VAL:HG12	2.40	0.52
45:QF:207:LEU:HB3	45:QF:225:LEU:HD22	1.90	0.52
45:QF:406:MET:O	45:QF:409:THR:HG22	2.10	0.52
44:QG:145:THR:H	46:QG:501:GTP:PG	2.32	0.52
44:QI:70:LEU:HD13	44:QI:110:ILE:HD11	1.90	0.52
45:QJ:73:MET:C	45:QJ:76:VAL:HB	2.30	0.52
45:QJ:86:ARG:CG	45:QJ:89:ASN:OD1	2.45	0.52
45:QJ:239:CYS:HB2	45:QJ:248:SER:O	2.09	0.52
45:QL:215:LEU:CD1	45:QL:217:LEU:HG	2.40	0.52
45:QN:12:CYS:SG	45:QN:138:SER:HB3	2.49	0.52
45:QN:60:VAL:CG2	45:QN:86:ARG:HD2	2.30	0.52
45:QN:217:LEU:HD11	45:QN:220:PRO:CA	2.40	0.52
45:RB:117:LEU:CD2	45:RB:154:LYS:HE3	2.40	0.52
45:RB:117:LEU:HD11	45:RB:154:LYS:HG2	1.90	0.52
45:RB:324:LYS:HE2	44:RC:210:TYR:HB3	1.90	0.52
44:RC:254:GLU:HG2	45:RD:98:GLY:HA2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:9:VAL:HA	44:RE:68:LEU:O	2.10	0.52
44:RG:306:ASP:O	44:RG:383:ALA:HB1	2.09	0.52
45:RH:187:LEU:HD11	45:RH:408:PHE:CE1	2.43	0.52
45:RH:324:LYS:HE2	44:RI:210:TYR:HB3	1.92	0.52
44:RI:7:ILE:HD12	44:RI:66:VAL:HB	1.91	0.52
44:RI:223:THR:HG23	44:RI:225:THR:H	1.73	0.52
45:RJ:186:THR:HG23	45:RJ:415:MET:HG2	1.91	0.52
45:RJ:286:VAL:CA	45:RJ:289:LEU:HD12	2.39	0.52
45:RJ:401:GLU:OE1	45:RJ:401:GLU:HA	2.09	0.52
44:RK:5:ILE:HG23	44:RK:125:LEU:HD13	1.92	0.52
44:RK:24:PHE:CZ	44:RK:235:ILE:HG22	2.44	0.52
44:RK:30:ILE:HD12	44:RK:30:ILE:H	1.74	0.52
44:RK:101:ASN:HA	44:RK:144:GLY:N	2.24	0.52
45:RL:182:PRO:HG2	45:RL:388:MET:CE	2.40	0.52
45:RN:51:TYR:HD2	45:RN:59:TYR:CD2	2.28	0.52
45:RN:179:VAL:O	45:RN:182:PRO:HD2	2.10	0.52
45:SD:317:PHE:HB2	45:SD:353:ILE:HG13	1.91	0.52
45:SD:325:GLU:O	45:SD:328:GLU:HG2	2.10	0.52
44:SE:318:MET:O	44:SE:375:VAL:HA	2.07	0.52
44:SG:27:GLU:HB2	44:SG:361:THR:HG21	1.91	0.52
45:SH:236:VAL:HG13	45:SH:237:THR:CG2	2.32	0.52
45:SH:248:SER:OG	45:SH:252:LYS:HD2	2.10	0.52
44:SI:408:TYR:HB3	44:SI:413:MET:CE	2.40	0.52
45:SJ:8:GLN:CD	45:SJ:17:GLY:HA3	2.30	0.52
45:SJ:139:LEU:O	45:SJ:184:ASN:ND2	2.42	0.52
44:SK:9:VAL:HG21	44:SK:149:LEU:CB	2.40	0.52
44:SK:137:VAL:HG13	44:SK:168:GLY:HA2	1.90	0.52
45:SL:116:VAL:O	45:SL:120:VAL:N	2.27	0.52
45:SL:198:GLU:OE2	45:SL:254:ALA:HB2	2.10	0.52
45:SL:316:LEU:HA	45:SL:352:SER:HB2	1.91	0.52
44:SM:13:GLY:HA2	44:SM:16:VAL:CG1	2.37	0.52
45:SN:142:GLY:O	45:SN:146:GLY:N	2.35	0.52
45:SN:233:MET:O	45:SN:236:VAL:HG23	2.10	0.52
44:TA:12:GLY:N	46:TA:501:GTP:O2A	2.43	0.52
44:TA:156:ARG:HA	44:TA:159:VAL:HG12	1.90	0.52
44:TA:384:ILE:HG13	44:TA:387:VAL:HG22	1.90	0.52
45:TB:315:ALA:HB3	45:TB:330:MET:CE	2.39	0.52
44:TC:30:ILE:HG12	44:TC:36:MET:CE	2.40	0.52
44:TC:115:VAL:HG22	44:TC:156:ARG:HD2	1.90	0.52
44:TC:174:SER:CB	44:TC:207:GLU:HB2	2.38	0.52
45:TD:303:ALA:HB2	45:TD:377:MET:CE	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:103:PHE:HB3	44:TE:408:TYR:CE2	2.43	0.52
44:TE:213:CYS:HA	44:TE:217:LEU:HD12	1.91	0.52
45:TF:185:ALA:HA	45:TF:188:SER:OG	2.09	0.52
45:TF:248:SER:CB	45:TF:252:LYS:HD2	2.40	0.52
44:TG:103:PHE:HB3	44:TG:408:TYR:HE2	1.75	0.52
44:TG:169:PHE:HA	44:TG:202:VAL:HB	1.91	0.52
45:TH:9:GLY:HA2	45:TH:66:MET:O	2.08	0.52
45:TH:180:VAL:O	45:TH:180:VAL:HG22	2.09	0.52
45:TH:329:GLN:O	45:TH:333:VAL:HG23	2.09	0.52
44:TI:75:ILE:O	44:TI:78:VAL:HB	2.09	0.52
44:TI:183:GLU:N	44:TI:184:PRO:HD2	2.25	0.52
44:TI:233:GLN:O	44:TI:237:SER:N	2.30	0.52
44:TI:257:THR:O	44:TI:258:ASN:ND2	2.42	0.52
45:TJ:3:GLU:O	45:TJ:131:GLN:N	2.36	0.52
45:TJ:324:LYS:HD3	44:TK:222:PRO:CG	2.38	0.52
44:TK:276:ILE:HG23	44:TK:281:ALA:CB	2.40	0.52
44:TK:428:LEU:HA	44:TK:431:ASP:HB2	1.92	0.52
45:TN:102:ALA:O	45:TN:106:TYR:HB2	2.09	0.52
45:TN:224:ASP:O	45:TN:227:HIS:HB3	2.10	0.52
45:UB:47:ILE:HD13	45:UB:59:TYR:CE2	2.43	0.52
45:UB:52:ASN:HA	45:UB:62:ARG:NH2	2.24	0.52
45:UD:68:LEU:HD23	45:UD:97:ALA:CA	2.40	0.52
44:UG:88:HIS:CE1	44:UG:90:GLU:HG2	2.44	0.52
44:UG:118:CYS:HA	44:UG:121:ARG:HB3	1.90	0.52
44:UG:212:ILE:HD13	44:UG:215:ARG:NH1	2.16	0.52
45:UH:253:LEU:HD21	45:UH:316:LEU:HD21	1.92	0.52
44:UI:332:ILE:C	44:UI:336:LYS:HZ3	2.11	0.52
45:UJ:168:SER:O	45:UJ:201:VAL:HA	2.09	0.52
44:UK:256:GLN:HE21	44:UK:260:VAL:HB	1.74	0.52
45:UL:72:THR:HG23	45:UL:73:MET:N	2.25	0.52
45:VB:51:TYR:CD1	45:VB:61:PRO:HG3	2.44	0.52
45:VB:190:HIS:O	45:VB:193:VAL:HG12	2.09	0.52
45:VB:415:MET:O	45:VB:419:VAL:HG23	2.10	0.52
45:VD:60:VAL:HG21	45:VD:86:ARG:HB3	1.91	0.52
45:VD:205:GLU:O	45:VD:208:TYR:HB2	2.09	0.52
44:VG:203:MET:HA	44:VG:203:MET:CE	2.39	0.52
45:VH:18:ALA:O	45:VH:22:GLU:HG3	2.09	0.52
45:VH:164:MET:O	45:VH:198:GLU:N	2.42	0.52
44:VI:332:ILE:HD11	44:VI:351:PHE:CG	2.44	0.52
45:VL:69:GLU:O	45:VL:73:MET:HE1	2.10	0.52
45:VL:404:ASP:HB2	45:VL:406:MET:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VM:229:ARG:HD2	44:VM:229:ARG:O	2.09	0.52
44:VM:403:ALA:O	44:VM:404:PHE:HB2	2.10	0.52
45:VN:323:THR:O	45:VN:327:ASP:N	2.39	0.52
45:WB:352:SER:C	45:WB:353:ILE:HD12	2.30	0.52
44:WC:195:LEU:CD2	44:WC:428:LEU:HD12	2.40	0.52
44:WC:233:GLN:O	44:WC:236:SER:OG	2.19	0.52
45:WD:7:ILE:HB	45:WD:135:ILE:HD12	1.92	0.52
45:WD:18:ALA:O	45:WD:22:GLU:HG3	2.09	0.52
44:WE:11:GLN:HB3	46:WE:501:GTP:PB	2.49	0.52
44:WE:222:PRO:O	45:WF:324:LYS:HB2	2.10	0.52
44:WE:235:ILE:O	44:WE:239:THR:OG1	2.24	0.52
44:WE:406:HIS:CD2	45:WF:260:PHE:HA	2.44	0.52
44:WG:183:GLU:HG2	44:WG:184:PRO:HD3	1.91	0.52
45:WH:110:ALA:O	45:WH:113:ILE:HG22	2.08	0.52
45:WH:146:GLY:O	45:WH:149:THR:HG22	2.10	0.52
45:WJ:252:LYS:HG2	45:WJ:350:LYS:HE2	1.90	0.52
44:WK:115:VAL:HG22	44:WK:119:LEU:CD2	2.40	0.52
44:WK:182:VAL:C	44:WK:184:PRO:HD2	2.30	0.52
45:WL:121:ARG:HG3	45:WL:121:ARG:HH11	1.75	0.52
45:WL:183:TYR:O	45:WL:186:THR:HB	2.09	0.52
45:WL:207:LEU:HB3	45:WL:225:LEU:HD22	1.91	0.52
45:WL:342:VAL:HG13	45:WL:345:ILE:HG22	1.91	0.52
44:WM:13:GLY:O	44:WM:16:VAL:HG12	2.10	0.52
44:WM:315:CYS:CB	44:WM:379:SER:HA	2.40	0.52
44:WM:425:LEU:HD23	44:WM:428:LEU:HD23	1.92	0.52
45:WN:222:TYR:HA	45:WN:225:LEU:HD13	1.92	0.52
45:WN:274:THR:HG21	45:WN:282:ARG:CZ	2.39	0.52
8:0G:144:TYR:HE1	44:KM:279:GLU:N	2.07	0.52
8:0G:151:LEU:HA	44:KM:364:PRO:HB2	1.90	0.52
12:0S:108:LEU:HB2	45:MB:160:PRO:HB2	1.92	0.52
15:0V:98:LEU:HD22	44:LM:402:ARG:HH21	1.75	0.52
4:1C:48:ARG:HH12	45:EL:283:ALA:HB1	1.74	0.52
4:1C:56:THR:N	44:EM:219:ILE:HG12	2.23	0.52
8:1G:105:TYR:HB3	44:JA:77:GLU:OE2	2.09	0.52
20:1J:59:THR:HA	44:IC:219:ILE:HG12	1.92	0.52
20:1J:148:GLU:CD	45:IH:219:THR:H	2.10	0.52
13:1T:132:PRO:HG3	44:MC:123:ARG:HH22	1.74	0.52
13:1T:133:LYS:HB2	44:MC:127:ASP:HA	1.92	0.52
22:2L:875:THR:HB	44:CK:221:ARG:HH12	1.75	0.52
2:3A:10:PRO:CD	45:LN:31:ASP:HB2	2.39	0.52
32:3I:220:LYS:HD2	45:GL:336:LYS:CD	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3O:267:ALA:O	44:UM:370:LYS:HE3	2.07	0.52
12:3S:104:THR:HG23	45:MN:160:PRO:O	2.08	0.52
13:3T:126:LYS:HE3	44:AK:339:ARG:HG2	1.90	0.52
28:4C:218:ARG:HH12	45:KN:320:ARG:HH11	1.58	0.52
31:4H:168:LYS:HD3	44:MI:55:GLU:HG2	1.92	0.52
37:5C:76:ILE:HG23	45:NJ:40:SER:HA	1.91	0.52
37:5D:108:ARG:N	44:NM:278:ALA:C	2.60	0.52
38:5G:11:TRP:O	38:5G:14:ARG:HD2	2.09	0.52
38:5G:142:TYR:HB2	45:OL:279:GLN:NE2	2.25	0.52
38:5H:12:ASN:HD21	45:NL:57:GLY:CA	2.20	0.52
38:5H:44:ARG:HH21	38:5H:45:PRO:CG	2.22	0.52
35:5R:120:TYR:OH	35:5R:162:TRP:N	2.42	0.52
11:6Q:41:ASP:HB2	11:6Q:129:TRP:HE1	1.75	0.52
11:6Q:106:SER:N	11:6Q:121:MET:O	2.43	0.52
11:6Q:107:ASN:HA	11:6Q:123:MET:HG2	1.91	0.52
35:6R:90:ARG:NH1	44:AM:42:ILE:HD12	2.18	0.52
35:6R:116:CYS:HB3	35:6R:131:GLU:HB3	1.92	0.52
35:7R:78:ILE:HG21	35:7R:82:GLN:HG2	1.91	0.52
35:7R:230:GLU:OE1	45:CB:218:THR:HG21	2.09	0.52
35:7R:240:HIS:O	35:7R:243:THR:HG23	2.09	0.52
43:8R:43:UNK:O	43:8R:47:UNK:N	2.42	0.52
44:AA:118:CYS:SG	44:AA:122:ILE:HD11	2.50	0.52
44:AA:225:THR:CB	44:AA:229:ARG:HH12	2.22	0.52
44:AA:319:TYR:CB	44:AA:355:ILE:HD13	2.31	0.52
45:AB:55:THR:H	45:BB:283:ALA:HB2	1.73	0.52
44:AE:102:ASN:OD1	44:AE:411:GLU:HG3	2.10	0.52
45:AF:103:LYS:HD3	45:AF:401:GLU:OE2	2.09	0.52
45:AF:398:TYR:HD1	45:AF:408:PHE:CZ	2.28	0.52
45:AH:281:TYR:HE1	45:MH:58:ARG:CZ	2.22	0.52
44:AI:183:GLU:HG2	44:AI:184:PRO:CD	2.40	0.52
45:AJ:66:MET:CE	45:AJ:147:MET:HG2	2.38	0.52
44:AM:70:LEU:HD21	44:AM:149:LEU:HD21	1.92	0.52
44:AM:177:VAL:CG2	44:AM:207:GLU:HB2	2.39	0.52
45:AN:178:THR:N	45:AN:181:GLU:OE2	2.28	0.52
44:BC:32:PRO:HB3	44:BC:83:TYR:HE1	1.73	0.52
44:BC:55:GLU:HG3	44:BC:57:GLY:H	1.73	0.52
44:BC:56:THR:HG22	44:BC:60:LYS:O	2.08	0.52
44:BC:398:MET:CE	45:BD:346:PRO:HD2	2.39	0.52
45:BD:257:LEU:HD11	45:BD:314:SER:HB3	1.92	0.52
44:BE:268:MET:SD	44:BE:268:MET:N	2.82	0.52
45:BF:310:TYR:CE1	45:BF:371:SER:HB3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:34:GLY:O	44:BG:60:LYS:HA	2.10	0.52
44:BG:98:ASP:HB3	45:BH:249:ASP:OD2	2.10	0.52
45:BH:330:MET:SD	45:BH:349:ILE:HG21	2.49	0.52
44:BI:88:HIS:CG	44:CI:283:HIS:HB2	2.44	0.52
45:BL:310:TYR:O	45:BL:342:VAL:HG12	2.09	0.52
45:BL:403:MET:SD	45:BL:407:GLU:OE2	2.67	0.52
44:BM:101:ASN:ND2	45:BN:252:LYS:HD2	2.25	0.52
44:CA:30:ILE:CD1	44:CA:36:MET:HE3	2.36	0.52
44:CA:136:LEU:HD22	44:CA:169:PHE:CE2	2.40	0.52
45:CB:127:CYS:SG	45:CB:130:LEU:HB2	2.50	0.52
44:CC:103:PHE:HD1	44:CC:147:SER:HG	1.58	0.52
44:CC:138:PHE:CE2	44:CC:169:PHE:HD2	2.28	0.52
44:CC:228:ASN:O	44:CC:232:ALA:N	2.32	0.52
45:CD:20:PHE:CE2	45:CD:24:ILE:HG13	2.44	0.52
45:CH:25:SER:HB3	45:CH:30:ILE:HG23	1.92	0.52
45:CH:251:ARG:O	45:CH:254:ALA:HB3	2.09	0.52
44:CI:291:ILE:HG13	44:CI:292:THR:H	1.75	0.52
44:CM:183:GLU:OE1	44:CM:183:GLU:N	2.40	0.52
44:CM:326:LYS:HE2	45:CN:219:THR:CA	2.34	0.52
45:CN:207:LEU:HD12	45:CN:208:TYR:N	2.24	0.52
45:CN:390:ARG:HG3	45:CN:391:ARG:N	2.24	0.52
44:DA:4:VAL:CG2	44:DA:136:LEU:HG	2.40	0.52
45:DB:77:ARG:O	45:DB:83:GLN:NE2	2.43	0.52
44:DC:324:VAL:HG12	44:DC:326:LYS:HG3	1.92	0.52
45:DD:162:ARG:NE	45:DD:162:ARG:HA	2.25	0.52
45:DD:166:THR:OG1	45:DD:198:GLU:O	2.27	0.52
44:DE:417:GLU:HA	44:DE:420:GLU:CG	2.35	0.52
45:DF:166:THR:O	45:DF:199:CYS:HA	2.10	0.52
45:DH:113:ILE:O	45:DH:116:VAL:HG12	2.09	0.52
45:DH:415:MET:O	45:DH:419:VAL:HG23	2.10	0.52
45:DJ:216:LYS:HB3	45:DJ:216:LYS:NZ	2.23	0.52
45:DJ:310:TYR:CE1	45:DJ:371:SER:HB2	2.45	0.52
44:DK:89:PRO:CG	44:EK:280:LYS:HB3	2.38	0.52
44:DM:320:ARG:CA	44:DM:356:ASN:HB3	2.40	0.52
44:DM:344:VAL:HG21	44:DM:346:TRP:CZ2	2.45	0.52
44:EA:210:TYR:CZ	44:EA:227:LEU:HD11	2.44	0.52
44:EA:260:VAL:HB	45:EB:397:TRP:HH2	1.73	0.52
44:EA:352:LYS:HD2	45:EB:179:VAL:HG13	1.92	0.52
45:EB:8:GLN:CD	45:EB:65:LEU:HG	2.30	0.52
45:ED:256:ASN:ND2	45:ED:350:LYS:HD2	2.21	0.52
45:ED:311:LEU:O	45:ED:348:ASN:ND2	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:315:ALA:HB1	45:ED:317:PHE:CE1	2.44	0.52
44:EE:41:THR:O	44:EE:42:ILE:HD13	2.09	0.52
45:EF:32:PRO:HG3	45:EF:81:PHE:CZ	2.44	0.52
45:EF:266:PHE:CE1	45:EF:370:ASN:HB2	2.45	0.52
44:EG:261:PRO:HA	45:EH:394:PHE:CE1	2.44	0.52
44:EI:93:ILE:H	44:EI:93:ILE:HD12	1.74	0.52
45:EJ:304:ASP:OD1	45:EJ:305:PRO:HD2	2.10	0.52
45:EL:173:PRO:CG	45:EL:380:ARG:HD3	2.40	0.52
45:EL:248:SER:OG	45:EL:253:LEU:HD12	2.09	0.52
44:EM:195:LEU:O	44:EM:266:HIS:NE2	2.43	0.52
45:EN:28:HIS:NE2	45:EN:44:LEU:HD23	2.25	0.52
45:EN:344:TRP:CE3	45:EN:345:ILE:HB	2.44	0.52
44:FA:174:SER:HB3	44:FA:177:VAL:O	2.10	0.52
44:FC:141:VAL:HG12	44:FC:171:ILE:O	2.09	0.52
45:FF:42:LEU:HA	45:FF:45:GLU:OE1	2.08	0.52
45:FF:395:LEU:HG	45:FF:399:THR:CG2	2.40	0.52
45:FH:156:ARG:HG3	45:FH:156:ARG:NH1	2.25	0.52
45:FJ:107:THR:HG23	45:FJ:108:GLU:HG2	1.91	0.52
45:FJ:286:VAL:HB	45:FJ:287:PRO:HD3	1.90	0.52
44:FK:206:ASN:OD1	46:FK:501:GTP:N2	2.37	0.52
44:FM:137:VAL:HG12	44:FM:167:LEU:O	2.10	0.52
44:GC:21:TRP:O	44:GC:25:CYS:N	2.22	0.52
44:GC:189:LEU:HD11	44:GC:418:PHE:CE1	2.44	0.52
45:GF:45:GLU:O	45:GF:46:ARG:HD2	2.09	0.52
45:GF:251:ARG:HH11	45:GF:251:ARG:HG2	1.74	0.52
45:GF:336:LYS:HA	45:GF:336:LYS:HE2	1.92	0.52
44:GG:90:GLU:HG3	44:GG:121:ARG:CZ	2.39	0.52
44:GG:189:LEU:HD23	44:GG:421:ALA:CB	2.40	0.52
45:GJ:49:VAL:CG2	45:GJ:241:ARG:HG2	2.39	0.52
45:GL:135:ILE:O	45:GL:166:THR:HA	2.10	0.52
45:GL:136:THR:HG22	45:GL:167:PHE:HB2	1.91	0.52
44:GM:240:ALA:HB1	44:GM:356:ASN:ND2	2.25	0.52
45:GN:42:LEU:HG	45:GN:45:GLU:OE2	2.10	0.52
45:GN:183:TYR:CD1	45:GN:386:THR:HA	2.45	0.52
45:GN:415:MET:O	45:GN:419:VAL:HG23	2.10	0.52
44:HA:183:GLU:N	44:HA:184:PRO:HD2	2.24	0.52
44:HA:284:GLU:HG3	44:HA:286:LEU:CD2	2.34	0.52
45:HB:211:CYS:HB3	45:HB:217:LEU:CD2	2.26	0.52
44:HC:219:ILE:HG22	44:HC:221:ARG:H	1.74	0.52
45:HF:172:SER:CB	45:HF:205:GLU:HB2	2.39	0.52
44:HG:259:LEU:CD2	44:HG:268:MET:HE3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HJ:139:LEU:HG	45:HJ:168:SER:OG	2.10	0.52
45:HL:163:ILE:HD11	45:HL:250:LEU:HB2	1.92	0.52
45:HL:199:CYS:O	45:HL:265:PHE:HA	2.10	0.52
44:HM:189:LEU:O	44:HM:192:HIS:N	2.42	0.52
45:HN:73:MET:CA	45:HN:76:VAL:HG12	2.39	0.52
45:HN:210:ILE:HD11	45:HN:299:MET:O	2.09	0.52
45:HN:216:LYS:HG3	45:HN:216:LYS:O	2.09	0.52
45:IB:311:LEU:HB2	45:IB:370:ASN:O	2.10	0.52
44:IE:12:GLY:O	44:IE:16:VAL:HG12	2.10	0.52
44:IG:81:GLY:O	44:IG:84:ARG:HG2	2.09	0.52
44:IG:172:TYR:HB3	44:IG:173:PRO:CD	2.38	0.52
44:IG:265:ILE:HD13	44:IG:432:TYR:CE1	2.44	0.52
45:IH:20:PHE:CD1	45:IH:233:MET:HB3	2.45	0.52
45:IH:169:VAL:HG12	45:IH:202:ILE:CG2	2.40	0.52
44:II:328:VAL:O	44:II:332:ILE:HG12	2.10	0.52
45:IL:234:SER:HA	45:IL:237:THR:HG22	1.91	0.52
44:IM:91:GLN:C	44:IM:93:ILE:HD12	2.30	0.52
44:IM:210:TYR:CZ	44:IM:227:LEU:HD11	2.45	0.52
44:IM:221:ARG:NE	45:IN:322:SER:HB3	2.23	0.52
45:IN:99:ASN:C	45:IN:142:GLY:HA3	2.30	0.52
45:IN:200:MET:CG	45:IN:266:PHE:HB2	2.39	0.52
45:JB:99:ASN:HA	45:JB:142:GLY:N	2.25	0.52
45:JD:49:VAL:HG21	45:JD:240:LEU:HD22	1.91	0.52
45:JD:192:LEU:CD1	45:JD:196:ALA:HB2	2.39	0.52
45:JF:314:SER:HB2	45:JF:350:LYS:HE2	1.91	0.52
44:JG:19:ALA:O	44:JG:22:GLU:HG2	2.10	0.52
44:JG:23:LEU:CD1	44:JG:363:VAL:HG23	2.39	0.52
44:JG:276:ILE:CG1	44:JG:281:ALA:HB2	2.40	0.52
45:JH:101:TRP:HZ3	45:JH:187:LEU:HD22	1.74	0.52
45:JH:101:TRP:HE3	45:JH:187:LEU:HD13	1.72	0.52
45:JH:280:GLN:OE1	45:JH:280:GLN:N	2.42	0.52
45:JH:345:ILE:O	45:JH:345:ILE:HG23	2.10	0.52
45:JJ:143:THR:HG22	48:JJ:501:GDP:O3B	2.09	0.52
45:JJ:317:PHE:HB2	45:JJ:353:ILE:HD13	1.92	0.52
44:JK:331:SER:O	44:JK:335:ILE:HG12	2.10	0.52
45:JL:134:GLN:HA	45:JL:165:GLU:CB	2.39	0.52
45:JL:401:GLU:HG2	45:JL:401:GLU:O	2.09	0.52
44:JM:75:ILE:O	44:JM:79:ARG:HG2	2.08	0.52
44:JM:171:ILE:HG12	44:JM:204:LEU:HB3	1.92	0.52
45:JN:206:ALA:HA	45:JN:209:ASP:CG	2.30	0.52
44:KA:319:TYR:HE1	44:KA:375:VAL:CG2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:435:VAL:O	44:KA:435:VAL:HG22	2.09	0.52
44:KC:10:GLY:HA2	44:KC:145:THR:HG23	1.92	0.52
44:KC:102:ASN:CG	44:KC:105:ARG:HG3	2.30	0.52
44:KC:268:MET:HB2	44:KC:379:SER:O	2.09	0.52
44:KE:203:MET:C	44:KE:204:LEU:HD22	2.29	0.52
44:KE:291:ILE:HG13	44:KE:292:THR:N	2.25	0.52
45:KF:3:GLU:CG	45:KF:127:CYS:HB2	2.39	0.52
44:KG:67:PHE:CD2	44:KG:92:LEU:HD22	2.44	0.52
44:KG:288:VAL:HA	44:KG:291:ILE:CG1	2.40	0.52
44:KI:137:VAL:O	44:KI:168:GLY:HA2	2.10	0.52
44:KI:238:LEU:HD12	44:KI:378:ILE:HD11	1.90	0.52
45:KJ:34:GLY:O	45:KJ:58:ARG:HA	2.10	0.52
45:KJ:285:THR:O	45:KJ:289:LEU:HD12	2.09	0.52
45:KJ:330:MET:HB3	45:KJ:349:ILE:HD12	1.92	0.52
44:KK:102:ASN:CG	44:KK:105:ARG:HG3	2.30	0.52
45:KN:153:SER:HA	45:KN:195:ASN:ND2	2.25	0.52
44:LA:93:ILE:HD12	44:LA:93:ILE:H	1.75	0.52
44:LA:259:LEU:HA	44:LA:314:ALA:HB1	1.92	0.52
44:LC:88:HIS:ND1	44:LC:90:GLU:HG2	2.25	0.52
44:LC:371:VAL:HG22	44:LC:373:ARG:H	1.75	0.52
45:LD:257:LEU:HD13	45:LD:312:THR:HB	1.90	0.52
45:LF:295:ASP:OD1	45:LF:296:ALA:N	2.42	0.52
44:LG:91:GLN:HG3	44:LG:92:LEU:CD1	2.39	0.52
44:LG:105:ARG:CA	44:LG:109:THR:HG22	2.34	0.52
44:LG:236:SER:O	44:LG:240:ALA:N	2.42	0.52
45:LH:68:LEU:HD23	45:LH:143:THR:OG1	2.09	0.52
44:LI:88:HIS:CE1	44:LI:90:GLU:HG2	2.44	0.52
45:LJ:114:ASP:OD1	45:LJ:115:SER:N	2.43	0.52
45:LJ:360:GLY:C	45:LJ:361:LEU:HD12	2.29	0.52
45:LJ:392:LYS:HD2	45:LJ:395:LEU:HD22	1.90	0.52
45:LL:256:ASN:C	45:LL:257:LEU:HD22	2.30	0.52
44:LM:4:VAL:HG21	44:LM:136:LEU:HD13	1.92	0.52
44:LM:241:SER:OG	44:LM:250:VAL:O	2.07	0.52
45:LN:296:ALA:HB1	45:LN:305:PRO:CD	2.39	0.52
44:MA:298:PRO:HD2	44:MA:299:ALA:H	1.75	0.52
45:MB:203:ASP:O	45:MB:207:LEU:HG	2.10	0.52
44:MC:199:ASP:O	44:MC:266:HIS:HB2	2.09	0.52
44:ME:7:ILE:HD12	44:ME:66:VAL:CG2	2.40	0.52
44:ME:351:PHE:N	45:MH:179:VAL:HG12	2.25	0.52
45:MF:91:VAL:O	45:MF:91:VAL:HG23	2.08	0.52
44:MG:1:MET:HE1	45:MJ:94:GLN:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:313:ALA:HB1	45:MJ:367:PHE:CE1	2.45	0.52
44:MK:105:ARG:HH11	45:ML:251:ARG:NH1	2.08	0.52
44:MK:254:GLU:HG2	45:MN:98:GLY:CA	2.36	0.52
45:ML:69:GLU:OE2	45:ML:72:THR:HB	2.10	0.52
44:NA:96:LYS:HG2	45:NB:1:MET:CE	2.39	0.52
44:NA:257:THR:HA	45:ND:397:TRP:CZ3	2.45	0.52
44:NA:258:ASN:ND2	44:NA:352:LYS:HD3	2.25	0.52
45:NB:249:ASP:OD1	45:NB:252:LYS:N	2.42	0.52
45:NB:358:PRO:HG2	45:NB:364:ALA:HB3	1.92	0.52
44:NC:217:LEU:HB3	44:NC:219:ILE:HG12	1.92	0.52
45:ND:133:PHE:O	45:ND:164:MET:HA	2.09	0.52
45:NF:117:LEU:HA	45:NF:120:VAL:CG1	2.39	0.52
45:NF:193:VAL:HA	45:NF:264:HIS:CE1	2.45	0.52
45:NF:289:LEU:HD12	45:NF:363:MET:HE1	1.91	0.52
44:NG:177:VAL:HG13	44:NG:207:GLU:OE2	2.09	0.52
44:NG:288:VAL:HA	44:NG:291:ILE:CG1	2.38	0.52
45:NH:8:GLN:NE2	45:NH:65:LEU:HG	2.25	0.52
44:NI:276:ILE:HG21	44:NI:283:HIS:CE1	2.44	0.52
45:NL:117:LEU:HA	45:NL:120:VAL:HG12	1.91	0.52
45:NL:314:SER:HB3	45:NL:368:VAL:CG1	2.38	0.52
45:NL:326:VAL:HG21	45:NL:353:ILE:HD11	1.92	0.52
44:NM:19:ALA:HB3	44:NM:232:ALA:HB2	1.91	0.52
44:NM:264:ARG:NE	44:NM:428:LEU:HD22	2.25	0.52
45:NN:64:ILE:HD11	45:NN:123:GLU:HG3	1.91	0.52
45:OB:215:LEU:HD23	45:OB:217:LEU:HD22	1.91	0.52
44:OC:223:THR:HB	45:OD:322:SER:CB	2.39	0.52
44:OC:384:ILE:O	44:OC:387:VAL:HG12	2.09	0.52
45:OD:102:ALA:HA	45:OD:106:TYR:HD2	1.74	0.52
45:OD:215:LEU:CD2	45:OD:273:LEU:HD12	2.38	0.52
44:OE:212:ILE:HD13	44:OE:215:ARG:NH1	2.25	0.52
45:OF:61:PRO:HD2	45:OF:84:LEU:O	2.10	0.52
45:OF:262:ARG:NH2	45:OF:421:GLU:HB2	2.24	0.52
45:OH:22:GLU:CG	45:OH:81:PHE:HD1	2.22	0.52
45:OJ:170:VAL:HG23	45:OJ:377:MET:HE1	1.90	0.52
44:OK:119:LEU:HD11	44:OK:156:ARG:HG3	1.92	0.52
45:OL:67:ASP:O	45:OL:68:LEU:HD22	2.10	0.52
45:OL:294:PHE:HE2	45:OL:333:VAL:HG11	1.74	0.52
44:OM:90:GLU:OE2	44:OM:121:ARG:NH1	2.43	0.52
44:OM:422:ARG:NH1	44:OM:426:ALA:HB2	2.25	0.52
45:ON:318:ARG:HH11	45:ON:358:PRO:HB3	1.73	0.52
44:PA:100:ALA:HA	45:PB:252:LYS:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:31:GLN:HG3	44:PC:32:PRO:HD2	1.91	0.52
44:PC:179:THR:HG21	45:PD:246:LEU:CD2	2.40	0.52
45:PD:398:TYR:HB3	45:PD:403:MET:CB	2.38	0.52
44:PE:317:MET:HE3	44:PE:375:VAL:HG21	1.91	0.52
45:PF:7:ILE:HG13	45:PF:64:ILE:HD13	1.92	0.52
45:PF:8:GLN:OE1	45:PF:17:GLY:HA3	2.09	0.52
45:PF:67:ASP:N	45:PF:73:MET:HE1	2.25	0.52
44:PG:174:SER:CB	44:PG:207:GLU:HB2	2.38	0.52
44:PG:181:VAL:HG13	45:PH:350:LYS:HZ1	1.72	0.52
44:PI:99:ALA:HB3	44:PI:145:THR:HG23	1.91	0.52
44:PI:234:VAL:O	44:PI:238:LEU:N	2.33	0.52
44:PK:11:GLN:HG3	44:PK:74:VAL:HG21	1.92	0.52
44:PM:431:ASP:O	44:PM:435:VAL:HG23	2.10	0.52
44:QA:296:PHE:CE2	44:QA:335:ILE:HG12	2.44	0.52
44:QC:210:TYR:CE1	44:QC:227:LEU:HD11	2.39	0.52
44:QC:291:ILE:HG13	44:QC:292:THR:N	2.23	0.52
45:QD:343:GLU:OE2	45:QD:344:TRP:HB3	2.09	0.52
44:QE:269:LEU:HD23	44:QE:269:LEU:H	1.73	0.52
44:QE:271:SER:HA	44:QE:302:MET:HG3	1.89	0.52
44:QE:320:ARG:NH1	44:QE:360:PRO:HA	2.23	0.52
45:QF:86:ARG:NH1	45:RF:278:SER:HA	2.25	0.52
44:QG:5:ILE:HD12	44:QG:132:LEU:HD11	1.92	0.52
44:QG:136:LEU:HD22	44:QG:167:LEU:HB2	1.92	0.52
44:QI:306:ASP:HB3	44:QI:309:HIS:CG	2.44	0.52
45:QJ:217:LEU:HD12	45:QJ:217:LEU:O	2.09	0.52
45:QJ:317:PHE:CZ	45:QJ:326:VAL:HG13	2.45	0.52
44:QM:47:ASP:HB2	44:QM:49:PHE:CE1	2.45	0.52
44:QM:212:ILE:HG22	44:QM:275:ILE:HG21	1.91	0.52
44:QM:268:MET:CE	44:QM:378:ILE:HG23	2.38	0.52
45:QN:217:LEU:HD11	45:QN:220:PRO:HA	1.92	0.52
45:QN:406:MET:HA	45:QN:409:THR:HB	1.92	0.52
44:RA:316:SER:OG	44:RA:378:ILE:HB	2.10	0.52
45:RB:317:PHE:HB2	45:RB:353:ILE:HA	1.91	0.52
44:RC:271:SER:HB2	44:RC:377:MET:SD	2.50	0.52
44:RC:295:ALA:HB2	44:RC:375:VAL:CG2	2.39	0.52
45:RD:104:GLY:O	45:RD:109:GLY:HA3	2.10	0.52
45:RD:303:ALA:CB	45:RD:377:MET:HE1	2.39	0.52
44:RE:394:LYS:HA	44:RE:397:LEU:HD12	1.91	0.52
45:RF:210:ILE:HD11	45:RF:273:LEU:HD13	1.91	0.52
45:RF:396:HIS:O	45:RF:399:THR:OG1	2.18	0.52
45:RH:318:ARG:HD3	45:RH:358:PRO:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:165:SER:HA	44:RI:199:ASP:OD2	2.10	0.52
45:RJ:207:LEU:HD23	45:RJ:210:ILE:HD12	1.90	0.52
45:RJ:273:LEU:HB2	45:RJ:292:GLN:NE2	2.23	0.52
44:RM:183:GLU:N	44:RM:184:PRO:HD2	2.24	0.52
45:RN:268:ILE:CG2	45:RN:368:VAL:HG22	2.38	0.52
45:RN:392:LYS:HG3	45:RN:395:LEU:CD2	2.40	0.52
44:SA:112:LYS:HA	44:SA:115:VAL:HG12	1.91	0.52
44:SA:245:ASP:O	44:SA:357:TYR:HD2	1.92	0.52
45:SB:6:HIS:O	45:SB:64:ILE:N	2.36	0.52
44:SC:239:THR:HA	44:SC:242:LEU:HD12	1.91	0.52
45:SD:5:VAL:HG22	45:SD:133:PHE:CD1	2.45	0.52
45:SD:102:ALA:CB	45:SD:401:GLU:HB2	2.40	0.52
45:SD:259:PRO:HA	44:SE:404:PHE:CE1	2.43	0.52
44:SE:102:ASN:HD21	44:SE:411:GLU:HG3	1.75	0.52
44:SE:258:ASN:C	44:SE:259:LEU:HD22	2.29	0.52
44:SE:278:ALA:HB2	44:SE:369:ALA:HB2	1.92	0.52
45:SF:4:ILE:HD11	45:SF:50:TYR:HE1	1.74	0.52
44:SG:93:ILE:HD12	44:SG:93:ILE:H	1.75	0.52
44:SG:214:ARG:NH1	44:SG:220:GLU:HA	2.24	0.52
45:SH:232:ALA:O	45:SH:235:GLY:N	2.40	0.52
44:SI:137:VAL:O	44:SI:168:GLY:HA2	2.10	0.52
44:SI:318:MET:C	44:SI:375:VAL:HG23	2.30	0.52
45:SJ:268:ILE:CG2	45:SJ:368:VAL:HG22	2.39	0.52
44:SK:257:THR:HA	45:SL:397:TRP:CE2	2.45	0.52
44:SK:257:THR:HA	45:SL:397:TRP:NE1	2.25	0.52
45:SL:58:ARG:HD3	45:TL:280:GLN:HE22	1.73	0.52
45:SL:289:LEU:HD13	45:SL:365:VAL:HG23	1.90	0.52
45:SL:325:GLU:OE2	45:SL:329:GLN:HB2	2.09	0.52
44:SM:240:ALA:HB1	44:SM:356:ASN:ND2	2.09	0.52
44:SM:313:MET:SD	44:SM:380:ASN:HB3	2.49	0.52
44:SM:344:VAL:HG21	44:SM:346:TRP:CE2	2.44	0.52
45:SN:14:ASN:O	45:SN:18:ALA:HB2	2.10	0.52
45:SN:358:PRO:HG2	45:SN:364:ALA:HB2	1.92	0.52
44:TA:25:CYS:SG	44:TA:86:LEU:HD21	2.49	0.52
44:TA:135:PHE:HB2	44:TA:166:LYS:CG	2.25	0.52
45:TB:133:PHE:HB2	45:TB:164:MET:SD	2.50	0.52
44:TC:408:TYR:HB3	44:TC:413:MET:CG	2.40	0.52
45:TD:42:LEU:HG	45:TD:45:GLU:OE2	2.10	0.52
44:TE:213:CYS:SG	44:TE:217:LEU:HD12	2.50	0.52
44:TG:98:ASP:OD1	44:TG:99:ALA:N	2.43	0.52
45:TH:6:HIS:HB3	45:TH:63:ALA:CA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:226:ASN:O	45:TH:229:VAL:HG12	2.10	0.52
45:TH:323:THR:HA	45:TH:326:VAL:HB	1.91	0.52
45:TJ:175:VAL:CG2	45:TJ:204:ASN:HB2	2.38	0.52
45:TJ:177:ASP:OD2	48:TJ:501:GDP:H3'	2.09	0.52
44:TK:88:HIS:HB3	44:TK:91:GLN:CG	2.40	0.52
45:TL:28:HIS:NE2	45:TL:241:ARG:HD2	2.25	0.52
45:TL:272:PRO:HD3	45:TL:363:MET:O	2.10	0.52
45:TL:323:THR:HA	45:TL:326:VAL:HG23	1.92	0.52
44:TM:135:PHE:O	44:TM:166:LYS:HA	2.08	0.52
45:UB:51:TYR:CE1	45:UB:84:LEU:HD23	2.45	0.52
45:UB:347:ASN:O	44:UC:181:VAL:HG12	2.10	0.52
44:UC:68:LEU:HG	44:UC:93:ILE:HB	1.90	0.52
45:UD:190:HIS:CE1	45:UD:411:ALA:HA	2.44	0.52
44:UE:269:LEU:HD23	44:UE:379:SER:O	2.09	0.52
45:UF:360:GLY:O	45:UF:361:LEU:HD23	2.10	0.52
44:UG:159:VAL:O	44:UG:159:VAL:HG22	2.09	0.52
45:UH:330:MET:SD	45:UH:349:ILE:HG21	2.50	0.52
44:UI:34:GLY:O	44:UI:60:LYS:HA	2.10	0.52
44:UK:229:ARG:NH1	44:UK:363:VAL:HG11	2.25	0.52
44:UK:256:GLN:CG	44:UK:260:VAL:HB	2.31	0.52
45:UL:324:LYS:HD2	44:UM:210:TYR:CG	2.45	0.52
44:VA:237:SER:CB	44:VA:318:MET:HE3	2.40	0.52
44:VA:320:ARG:CG	44:VA:360:PRO:HG3	2.40	0.52
45:VB:8:GLN:OE1	45:VB:14:ASN:HA	2.09	0.52
45:VB:130:LEU:HB3	45:VB:162:ARG:CD	2.37	0.52
44:VC:9:VAL:O	44:VC:139:ASN:HA	2.09	0.52
45:VF:103:LYS:HG3	45:VF:108:GLU:HG2	1.91	0.52
45:VF:105:HIS:CD2	45:VF:150:LEU:HD12	2.45	0.52
45:VF:239:CYS:SG	45:VF:247:ASN:HA	2.50	0.52
44:VG:104:ALA:CB	44:VG:411:GLU:HB2	2.39	0.52
44:VG:267:PHE:HB2	44:VG:384:ILE:HD12	1.91	0.52
45:VH:51:TYR:CE1	45:VH:61:PRO:HG3	2.38	0.52
45:VH:213:ARG:O	45:VH:216:LYS:HG2	2.09	0.52
44:VI:62:VAL:HG13	44:VI:62:VAL:O	2.10	0.52
45:VJ:238:CYS:HB2	45:VJ:318:ARG:HE	1.74	0.52
45:VL:404:ASP:HB2	45:VL:406:MET:HE1	1.91	0.52
45:VN:248:SER:OG	45:VN:252:LYS:HD2	2.10	0.52
44:WA:157:LEU:HA	44:WA:161:TYR:CD1	2.45	0.52
44:WA:217:LEU:CB	44:WA:219:ILE:HG13	2.39	0.52
45:WB:389:PHE:O	45:WB:392:LYS:HD2	2.09	0.52
44:WC:98:ASP:OD1	44:WC:99:ALA:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:224:TYR:HB3	46:WC:501:GTP:O6	2.08	0.52
45:WD:105:HIS:O	45:WD:105:HIS:ND1	2.42	0.52
44:WE:287:SER:O	44:WE:291:ILE:HG23	2.08	0.52
44:WG:67:PHE:CB	44:WG:92:LEU:HG	2.34	0.52
45:WH:67:ASP:HB2	45:WH:73:MET:HE3	1.92	0.52
45:WH:91:VAL:HG11	45:WH:115:SER:OG	2.09	0.52
45:WH:241:ARG:HG3	45:WH:242:PHE:CE2	2.44	0.52
44:WI:172:TYR:HB2	44:WI:203:MET:HE1	1.91	0.52
44:WI:252:ILE:HA	44:WI:255:PHE:CD2	2.45	0.52
45:WJ:11:GLN:HB3	48:WJ:502:GDP:O1A	2.10	0.52
45:WJ:253:LEU:HD12	45:WJ:257:LEU:HD13	1.91	0.52
44:WK:14:ILE:HD11	44:WK:68:LEU:O	2.10	0.52
44:WK:317:MET:HB2	44:WK:377:MET:CB	2.40	0.52
45:WL:256:ASN:ND2	45:WL:350:LYS:HD2	2.23	0.52
3:OB:205:GLU:OE2	45:KL:219:THR:HG22	2.09	0.52
10:1N:259:ILE:HD12	45:KJ:77:ARG:NH1	2.24	0.52
11:2Q:17:ILE:HG12	45:WF:125:GLU:OE2	2.09	0.52
26:2R:93:VAL:HA	44:AG:370:LYS:HD3	1.89	0.52
26:2R:392:LEU:CD1	45:EH:276:ARG:HH22	2.22	0.52
12:2S:150:GLN:C	44:WG:163:LYS:HZ3	2.12	0.52
31:3H:218:HIS:CE1	44:MG:84:ARG:HE	2.28	0.52
26:3R:97:ARG:HH22	44:AK:26:LEU:HD12	1.75	0.52
15:3V:98:LEU:CD1	44:LA:405:VAL:HG21	2.39	0.52
28:4C:298:PRO:HA	45:KN:357:PRO:CG	2.39	0.52
37:5A:175:LYS:HZ1	45:KD:343:GLU:HG2	1.73	0.52
37:5D:38:THR:CB	44:KK:265:ILE:HD11	2.40	0.52
38:5F:122:PHE:O	38:5F:123:ARG:HB2	2.10	0.52
38:5F:151:GLU:O	38:5F:155:MET:HE1	2.10	0.52
38:5G:164:LYS:H	38:5G:165:PRO:HD2	1.74	0.52
38:5H:120:GLU:N	38:5H:122:PHE:HD2	2.04	0.52
38:5H:126:LEU:HD12	38:5H:127:PRO:HD2	1.91	0.52
35:5R:547:GLU:HA	35:5R:550:VAL:CG2	2.40	0.52
36:5S:186:ILE:HG13	36:5S:187:LEU:HD12	1.91	0.52
41:6G:124:GLU:OE1	41:6G:128:LYS:HG3	2.10	0.52
35:7R:96:TYR:O	35:7R:181:VAL:N	2.36	0.52
35:7R:115:LYS:O	35:7R:131:GLU:HB2	2.09	0.52
35:7R:547:GLU:O	35:7R:550:VAL:HG12	2.10	0.52
44:AA:174:SER:HB2	44:AA:177:VAL:HB	1.90	0.52
44:AC:7:ILE:HD11	44:AC:122:ILE:CD1	2.40	0.52
45:AD:89:ASN:O	45:AD:91:VAL:HG13	2.08	0.52
44:AE:49:PHE:O	44:AE:53:PHE:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:288:VAL:HG11	44:AE:327:ASP:CB	2.30	0.52
44:AE:433:GLU:O	44:AE:437:ILE:HG23	2.09	0.52
45:AH:163:ILE:HG13	45:AH:164:MET:N	2.25	0.52
44:AI:428:LEU:CD2	44:AI:432:TYR:HE2	2.20	0.52
45:AL:13:GLY:HA2	45:AL:16:ILE:HG22	1.91	0.52
45:AL:22:GLU:OE2	45:AL:81:PHE:HB2	2.09	0.52
45:AL:311:LEU:O	45:AL:312:THR:HG23	2.08	0.52
44:AM:291:ILE:HG13	44:AM:292:THR:N	2.25	0.52
45:AN:20:PHE:CE2	45:AN:24:ILE:HG13	2.44	0.52
45:AN:281:TYR:OH	45:MN:83:GLN:NE2	2.43	0.52
45:BB:318:ARG:HH11	45:BB:358:PRO:HG3	1.75	0.52
44:BC:66:VAL:HG23	44:BC:91:GLN:O	2.09	0.52
44:BC:200:VAL:HG13	44:BC:268:MET:CE	2.40	0.52
44:BG:71:GLU:CD	44:BG:73:THR:H	2.11	0.52
44:BK:352:LYS:HZ2	45:BN:178:THR:HG22	1.75	0.52
44:BM:408:TYR:HB3	44:BM:413:MET:HE3	1.90	0.52
45:BN:416:ASN:HA	45:BN:419:VAL:HG12	1.91	0.52
44:CA:214:ARG:O	44:CA:218:ASP:HA	2.10	0.52
44:CC:258:ASN:HD21	44:CC:352:LYS:HB2	1.74	0.52
45:CD:430:ALA:HB1	44:CE:397:LEU:CD2	2.40	0.52
44:CG:205:ASP:CG	44:CG:304:LYS:H	2.13	0.52
45:CH:20:PHE:CD1	45:CH:233:MET:HG2	2.44	0.52
45:CH:295:ASP:OD1	45:CH:296:ALA:N	2.43	0.52
45:CJ:86:ARG:CD	45:DJ:281:TYR:HA	2.39	0.52
44:CM:138:PHE:CD2	44:CM:169:PHE:HB2	2.45	0.52
45:CN:231:ALA:HB1	45:CN:270:PHE:CZ	2.44	0.52
45:DB:224:ASP:O	45:DB:228:LEU:HG	2.09	0.52
45:DB:262:ARG:C	45:DB:263:LEU:HD12	2.29	0.52
45:DB:415:MET:O	45:DB:419:VAL:HG23	2.09	0.52
44:DC:2:ARG:O	44:DC:51:THR:HG22	2.10	0.52
45:DD:7:ILE:HD12	45:DD:151:LEU:HD22	1.92	0.52
45:DD:73:MET:HB3	45:DD:90:PHE:CE1	2.44	0.52
44:DG:212:ILE:HD11	44:DG:300:ASN:HA	1.91	0.52
44:DG:269:LEU:HD13	44:DG:305:CYS:SG	2.50	0.52
45:DH:18:ALA:O	45:DH:22:GLU:HG3	2.09	0.52
45:DH:143:THR:HG22	48:DH:501:GDP:O2B	2.09	0.52
45:DJ:348:ASN:HA	44:DK:181:VAL:CG1	2.40	0.52
45:DL:375:GLN:CA	45:DL:379:LYS:HD2	2.39	0.52
45:DL:385:PHE:HE2	45:DL:412:GLU:HB2	1.74	0.52
44:DM:7:ILE:HD11	44:DM:122:ILE:CD1	2.39	0.52
44:DM:269:LEU:HD23	44:DM:269:LEU:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:115:VAL:HG11	44:EC:149:LEU:HD11	1.90	0.52
44:EC:318:MET:SD	44:EC:354:GLY:HA3	2.50	0.52
45:ED:81:PHE:HA	45:ED:84:LEU:HD13	1.91	0.52
45:ED:117:LEU:HD21	45:ED:121:ARG:HH22	1.74	0.52
45:ED:190:HIS:O	45:ED:193:VAL:HG12	2.10	0.52
45:ED:331:LEU:HA	45:ED:334:GLN:NE2	2.24	0.52
44:EG:244:PHE:CE2	44:EG:358:GLN:HG2	2.44	0.52
44:EI:7:ILE:HD11	44:EI:137:VAL:CB	2.37	0.52
45:EJ:189:VAL:HB	45:EJ:415:MET:CE	2.39	0.52
45:EJ:289:LEU:CD1	45:EJ:363:MET:HG2	2.27	0.52
45:EJ:327:ASP:HB3	44:EK:177:VAL:CG1	2.40	0.52
45:EL:268:ILE:HA	45:EL:368:VAL:HA	1.91	0.52
45:EL:289:LEU:CD1	45:EL:363:MET:HG3	2.34	0.52
45:EN:36:TYR:CD1	45:EN:44:LEU:HD21	2.44	0.52
44:FA:2:ARG:O	44:FA:51:THR:HG23	2.10	0.52
44:FA:261:PRO:HA	45:FD:394:PHE:CD2	2.45	0.52
44:FA:332:ILE:HG22	44:FA:336:LYS:NZ	2.24	0.52
45:FB:18:ALA:HB2	45:FB:76:VAL:HG11	1.92	0.52
45:FB:334:GLN:NE2	45:FB:348:ASN:OD1	2.43	0.52
44:FC:329:ASN:O	45:FF:174:LYS:NZ	2.39	0.52
45:FF:72:THR:HG23	45:FF:73:MET:N	2.25	0.52
44:FG:326:LYS:HG3	44:FG:327:ASP:H	1.74	0.52
45:FH:267:MET:HE1	45:FH:371:SER:H	1.74	0.52
44:FI:145:THR:HG22	46:FI:501:GTP:O3B	2.10	0.52
44:FI:224:TYR:O	44:FI:227:LEU:HB2	2.09	0.52
44:FI:247:ALA:O	44:FI:248:LEU:HD22	2.09	0.52
45:FJ:257:LEU:O	45:FJ:258:ILE:HD13	2.10	0.52
45:FL:352:SER:O	45:FL:353:ILE:HD13	2.10	0.52
45:FN:104:GLY:HA2	45:FN:108:GLU:HB2	1.90	0.52
44:GA:261:PRO:O	44:GA:262:TYR:HD1	1.92	0.52
45:GB:122:LYS:HA	45:GB:122:LYS:CE	2.39	0.52
45:GB:207:LEU:HA	45:GB:210:ILE:HB	1.92	0.52
45:GD:217:LEU:HD12	45:GD:217:LEU:O	2.10	0.52
44:GE:224:TYR:CD1	44:GE:227:LEU:HD12	2.44	0.52
45:GH:49:VAL:HG11	45:GH:241:ARG:CD	2.39	0.52
45:GH:334:GLN:HB2	45:GH:349:ILE:HD11	1.91	0.52
45:GH:390:ARG:HH21	45:GH:392:LYS:HZ1	1.57	0.52
44:GI:97:GLU:CG	44:GI:105:ARG:HH22	2.22	0.52
44:GI:138:PHE:CD1	44:GI:169:PHE:HB2	2.45	0.52
44:GM:217:LEU:CD2	44:GM:367:ASP:HB3	2.40	0.52
44:GM:269:LEU:HG	44:GM:379:SER:HG	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:248:SER:OG	45:GN:252:LYS:HD2	2.09	0.52
45:GN:344:TRP:CE3	45:GN:345:ILE:HB	2.45	0.52
44:HA:1:MET:HE2	45:HD:70:PRO:HG2	1.92	0.52
44:HA:202:VAL:HG11	44:HA:270:SER:HB3	1.91	0.52
44:HA:265:ILE:HG23	44:HA:432:TYR:CZ	2.45	0.52
44:HC:221:ARG:HH22	45:HD:321:MET:HB2	1.75	0.52
45:HD:324:LYS:O	45:HD:328:GLU:HG2	2.10	0.52
44:HE:394:LYS:HZ2	45:HF:346:PRO:HB2	1.74	0.52
45:HF:372:THR:HA	45:HF:422:TYR:CE2	2.32	0.52
44:HG:333:ALA:HB2	45:HJ:174:LYS:HE2	1.91	0.52
44:HG:346:TRP:CE3	44:HG:347:CYS:HB2	2.44	0.52
45:HJ:377:MET:O	45:HJ:380:ARG:HG2	2.10	0.52
44:HK:108:TYR:HA	44:HK:112:LYS:HE3	1.91	0.52
44:HM:221:ARG:NH1	45:HN:322:SER:O	2.43	0.52
45:HN:28:HIS:CE1	45:HN:47:ILE:HG13	2.45	0.52
45:HN:386:THR:N	45:HN:387:ALA:CA	2.72	0.52
44:IA:217:LEU:HD13	44:IA:367:ASP:CB	2.40	0.52
45:IB:119:VAL:O	45:IB:122:LYS:HG2	2.09	0.52
45:IB:337:ASN:HB3	45:IB:340:TYR:HD2	1.74	0.52
45:ID:345:ILE:O	45:ID:345:ILE:HG23	2.09	0.52
44:IE:210:TYR:CE1	45:IF:324:LYS:HB2	2.45	0.52
45:IF:3:GLU:O	45:IF:131:GLN:HB3	2.10	0.52
45:IF:24:ILE:CA	45:IF:27:GLU:HG2	2.39	0.52
45:IF:390:ARG:HD2	45:IF:391:ARG:CD	2.39	0.52
44:II:56:THR:HG23	44:II:58:ALA:H	1.74	0.52
45:IL:200:MET:HG2	45:IL:200:MET:O	2.07	0.52
45:IL:267:MET:HE2	45:IL:301:CYS:HB2	1.91	0.52
44:IM:141:VAL:HG11	44:IM:172:TYR:HA	1.92	0.52
44:JA:223:THR:N	44:JA:226:ASN:OD1	2.33	0.52
44:JC:68:LEU:CD2	44:JC:93:ILE:HB	2.35	0.52
45:JD:257:LEU:HA	45:JD:312:THR:HG21	1.92	0.52
44:JE:254:GLU:OE2	45:JH:98:GLY:HA2	2.09	0.52
45:JF:208:TYR:O	45:JF:211:CYS:HB2	2.10	0.52
44:JI:326:LYS:HD2	45:JL:220:PRO:HD2	1.92	0.52
44:JK:183:GLU:N	44:JK:184:PRO:HD2	2.24	0.52
44:JM:32:PRO:HB3	44:JM:83:TYR:CD1	2.45	0.52
44:JM:86:LEU:HD23	44:JM:87:PHE:CE2	2.44	0.52
44:JM:134:GLY:HA2	44:JM:164:LYS:NZ	2.25	0.52
45:JN:2:ARG:HA	45:JN:129:CYS:O	2.10	0.52
44:KA:181:VAL:HB	45:KB:256:ASN:OD1	2.09	0.52
44:KC:66:VAL:HG11	44:KC:122:ILE:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:342:VAL:CG1	45:KD:345:ILE:HG22	2.38	0.52
45:KF:1:MET:O	45:KF:2:ARG:HG2	2.10	0.52
45:KF:10:GLY:HA2	45:KF:143:THR:HG23	1.92	0.52
45:KF:305:PRO:HB2	45:KF:310:TYR:OH	2.09	0.52
44:KG:67:PHE:C	44:KG:68:LEU:HD22	2.30	0.52
44:KG:73:THR:OG1	45:KH:247:ASN:ND2	2.43	0.52
44:KG:183:GLU:N	44:KG:184:PRO:HD2	2.23	0.52
44:KG:230:LEU:HD21	44:KG:275:ILE:HD12	1.92	0.52
45:KH:141:GLY:HA3	48:KH:501:GDP:O3A	2.09	0.52
45:KH:405:GLU:N	45:KH:405:GLU:OE1	2.42	0.52
44:KI:136:LEU:CD1	44:KI:235:ILE:HD11	2.39	0.52
45:KJ:180:VAL:HG13	45:KJ:184:ASN:ND2	2.25	0.52
44:KK:55:GLU:HG3	44:KK:57:GLY:N	2.20	0.52
44:KK:395:PHE:CE2	44:KK:422:ARG:HD3	2.45	0.52
45:KL:189:VAL:O	45:KL:192:LEU:N	2.41	0.52
45:KL:245:GLN:C	45:KL:246:LEU:HD22	2.30	0.52
44:KM:177:VAL:HG21	45:KN:327:ASP:HB3	1.91	0.52
45:KN:32:PRO:HG3	45:KN:81:PHE:CD1	2.44	0.52
45:KN:175:VAL:HG22	45:KN:205:GLU:OE2	2.09	0.52
44:LA:265:ILE:O	44:LA:265:ILE:HG23	2.10	0.52
44:LA:398:MET:HE3	45:LB:346:PRO:HD2	1.92	0.52
45:LB:25:SER:O	45:LB:30:ILE:N	2.38	0.52
45:LB:139:LEU:HD22	45:LB:170:VAL:HG12	1.92	0.52
44:LC:2:ARG:HH21	44:LC:243:ARG:CA	2.21	0.52
45:LD:102:ALA:HB1	45:LD:401:GLU:HG3	1.92	0.52
44:LE:315:CYS:HA	44:LE:379:SER:OG	2.09	0.52
45:LF:262:ARG:C	45:LF:263:LEU:HD12	2.30	0.52
44:LG:236:SER:O	44:LG:240:ALA:HB2	2.10	0.52
45:LJ:391:ARG:HG3	45:LJ:391:ARG:NH1	2.24	0.52
45:LL:362:LYS:O	45:LL:363:MET:HE2	2.09	0.52
44:LM:318:MET:HA	44:LM:354:GLY:CA	2.39	0.52
45:MB:263:LEU:HG	45:MB:422:TYR:CD1	2.44	0.52
44:MC:11:GLN:OE1	45:MD:246:LEU:HA	2.10	0.52
44:MC:222:PRO:CD	45:MD:324:LYS:HG3	2.34	0.52
44:MC:404:PHE:CE1	45:MD:259:PRO:HA	2.45	0.52
45:MD:189:VAL:CG1	45:MD:415:MET:HE2	2.40	0.52
44:ME:296:PHE:HE2	44:ME:335:ILE:HG21	1.74	0.52
45:MF:103:LYS:O	45:MF:109:GLY:N	2.38	0.52
44:MG:319:TYR:HA	44:MG:375:VAL:HG12	1.91	0.52
45:MH:222:TYR:HB3	48:MH:501:GDP:O6	2.10	0.52
44:MI:121:ARG:HA	44:MI:121:ARG:NE	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:138:PHE:CZ	44:MK:235:ILE:HD12	2.45	0.52
44:MK:229:ARG:HH11	44:MK:363:VAL:HG11	1.74	0.52
44:MK:236:SER:O	44:MK:240:ALA:HB2	2.09	0.52
45:ML:171:PRO:HB3	45:ML:181:GLU:OE1	2.09	0.52
45:ML:217:LEU:HD23	45:ML:218:THR:N	2.24	0.52
44:MM:276:ILE:HG23	44:MM:281:ALA:CB	2.40	0.52
45:MN:65:LEU:HD22	45:MN:90:PHE:CE1	2.45	0.52
45:NB:70:PRO:HG3	45:NB:92:PHE:CD1	2.44	0.52
45:NB:345:ILE:CG1	45:NB:348:ASN:HB3	2.39	0.52
44:NC:2:ARG:HD2	44:NC:242:LEU:O	2.10	0.52
44:NC:112:LYS:HG2	44:NC:113:GLU:OE1	2.10	0.52
44:NC:212:ILE:HD11	44:NC:300:ASN:O	2.10	0.52
44:NE:91:GLN:HA	44:NE:121:ARG:HH11	1.75	0.52
44:NE:265:ILE:HD12	44:NE:432:TYR:HE1	1.72	0.52
45:NF:24:ILE:O	45:NF:27:GLU:N	2.42	0.52
45:NF:132:GLY:N	45:NF:162:ARG:HD2	2.24	0.52
45:NF:134:GLN:HG3	45:NF:134:GLN:O	2.09	0.52
44:NG:175:PRO:HB3	44:NG:390:ARG:HD3	1.91	0.52
44:NI:288:VAL:HA	44:NI:291:ILE:CD1	2.40	0.52
45:NJ:76:VAL:O	45:NJ:82:GLY:HA3	2.10	0.52
45:NJ:317:PHE:HD2	45:NJ:326:VAL:HG22	1.73	0.52
45:NJ:396:HIS:HA	45:NJ:399:THR:OG1	2.10	0.52
44:NK:183:GLU:HG2	44:NK:184:PRO:N	2.25	0.52
44:NK:217:LEU:HA	44:NK:277:SER:HB2	1.92	0.52
44:NK:311:LYS:HZ1	44:NK:344:VAL:CA	2.22	0.52
44:NK:311:LYS:NZ	44:NK:344:VAL:HB	2.24	0.52
45:NL:217:LEU:CD2	45:NL:276:ARG:HH21	2.23	0.52
44:NM:229:ARG:HD2	44:NM:367:ASP:OD2	2.10	0.52
44:NM:288:VAL:O	44:NM:291:ILE:N	2.43	0.52
44:NM:320:ARG:HG2	44:NM:374:ALA:HB3	1.91	0.52
45:NN:23:VAL:HG21	45:NN:230:SER:CB	2.40	0.52
45:NN:107:THR:HG23	45:NN:108:GLU:H	1.75	0.52
45:NN:337:ASN:HB3	45:NN:340:TYR:C	2.30	0.52
45:OB:276:ARG:HA	45:OB:279:GLN:CD	2.30	0.52
44:OC:77:GLU:O	44:OC:80:THR:OG1	2.27	0.52
44:OC:203:MET:HE2	44:OC:269:LEU:HB3	1.92	0.52
44:OC:284:GLU:CG	44:OC:286:LEU:HD22	2.40	0.52
45:OD:318:ARG:HB2	45:OD:364:ALA:HB3	1.91	0.52
44:OE:268:MET:SD	44:OE:380:ASN:HB2	2.49	0.52
44:OI:17:GLY:HA2	44:OI:20:CYS:CB	2.39	0.52
44:OK:206:ASN:HA	44:OK:209:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:178:THR:CB	45:OL:181:GLU:HG3	2.38	0.52
44:OM:51:THR:HG22	44:OM:52:PHE:CE1	2.45	0.52
44:OM:212:ILE:HD13	44:OM:215:ARG:HH21	1.73	0.52
44:PA:269:LEU:HD23	44:PA:269:LEU:H	1.73	0.52
44:PA:297:GLU:HB3	44:PA:300:ASN:ND2	2.25	0.52
45:PB:268:ILE:HG22	45:PB:368:VAL:HG13	1.92	0.52
44:PC:223:THR:CA	45:PD:322:SER:HB2	2.40	0.52
44:PC:223:THR:HB	45:PD:322:SER:CB	2.39	0.52
44:PC:272:TYR:N	44:PC:302:MET:HE1	2.24	0.52
44:PC:295:ALA:HB1	44:PC:377:MET:HE3	1.92	0.52
45:PD:18:ALA:O	45:PD:22:GLU:HG2	2.09	0.52
45:PD:357:PRO:HB2	45:PD:358:PRO:CD	2.40	0.52
44:PE:215:ARG:NH2	44:PE:300:ASN:HA	2.25	0.52
44:PE:220:GLU:C	44:PE:222:PRO:HD3	2.30	0.52
45:PF:68:LEU:HD13	45:PF:147:MET:HE1	1.92	0.52
44:PI:18:ASN:O	44:PI:21:TRP:N	2.43	0.52
44:PI:319:TYR:CE1	44:PI:328:VAL:HG13	2.45	0.52
44:PK:82:THR:HG23	44:PK:83:TYR:CG	2.44	0.52
44:PK:345:ASP:HB2	44:PK:438:GLU:CG	2.40	0.52
44:PK:418:PHE:O	44:PK:422:ARG:HG2	2.10	0.52
45:PL:86:ARG:NH1	45:QJ:278:SER:OG	2.43	0.52
45:PL:319:GLY:HA3	45:PL:357:PRO:HB3	1.92	0.52
44:PM:101:ASN:H	44:PM:144:GLY:HA3	1.74	0.52
44:PM:344:VAL:HG21	44:PM:346:TRP:NE1	2.24	0.52
45:PN:173:PRO:HG3	45:PN:380:ARG:HD3	1.90	0.52
45:PN:381:VAL:CA	45:PN:384:GLN:HG2	2.38	0.52
44:QA:264:ARG:NE	44:QA:431:ASP:OD2	2.42	0.52
44:QA:297:GLU:HB2	44:QA:300:ASN:ND2	2.25	0.52
45:QB:36:TYR:OH	45:QB:43:GLN:CG	2.57	0.52
45:QB:47:ILE:HD13	45:QB:59:TYR:CE2	2.44	0.52
44:QC:1:MET:HE3	44:QC:131:GLY:HA2	1.92	0.52
44:QC:269:LEU:HD21	44:QC:381:SER:HB3	1.92	0.52
44:QC:321:GLY:HA2	44:QC:359:PRO:CB	2.39	0.52
45:QD:315:ALA:C	45:QD:316:LEU:HD12	2.30	0.52
45:QF:174:LYS:CD	45:QF:175:VAL:HG13	2.39	0.52
45:QF:251:ARG:HB3	44:QG:100:ALA:CB	2.39	0.52
45:QH:91:VAL:CG1	45:QH:112:LEU:HD21	2.40	0.52
44:QK:200:VAL:HG13	44:QK:268:MET:SD	2.50	0.52
44:QM:68:LEU:HD22	44:QM:153:LEU:HD11	1.91	0.52
45:RB:20:PHE:O	45:RB:24:ILE:HG12	2.09	0.52
45:RB:64:ILE:HD11	45:RB:119:VAL:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:415:MET:O	45:RD:419:VAL:HG23	2.10	0.52
44:RE:134:GLY:HA3	44:RE:165:SER:O	2.09	0.52
45:RF:7:ILE:CG1	45:RF:64:ILE:HD13	2.39	0.52
45:RH:170:VAL:HG23	45:RH:170:VAL:O	2.09	0.52
45:RH:256:ASN:HD21	44:RI:180:ALA:HB1	1.75	0.52
45:RJ:256:ASN:O	45:RJ:257:LEU:HD12	2.10	0.52
44:RK:87:PHE:HB3	44:RK:92:LEU:CD1	2.40	0.52
44:RK:250:VAL:HG11	44:RK:318:MET:SD	2.49	0.52
44:RK:265:ILE:CD1	44:RK:435:VAL:HG21	2.40	0.52
45:RL:138:SER:HA	45:RL:169:VAL:H	1.74	0.52
45:RL:238:CYS:HB2	45:RL:318:ARG:NE	2.25	0.52
45:RL:303:ALA:HB1	45:RL:373:ALA:HB1	1.91	0.52
44:RM:201:ALA:HB3	44:RM:267:PHE:HA	1.91	0.52
44:RM:213:CYS:O	44:RM:218:ASP:N	2.43	0.52
44:SC:67:PHE:O	44:SC:68:LEU:HD12	2.10	0.52
45:SD:3:GLU:HB2	45:SD:49:VAL:O	2.10	0.52
45:SD:404:ASP:OD1	45:SD:407:GLU:HG3	2.10	0.52
44:SE:206:ASN:O	44:SE:209:ILE:HG13	2.09	0.52
44:SE:384:ILE:O	44:SE:387:VAL:HG22	2.09	0.52
44:SG:362:VAL:HG11	44:SG:370:LYS:HB3	1.92	0.52
45:SH:101:TRP:O	45:SH:105:HIS:N	2.41	0.52
45:SH:251:ARG:NE	44:SI:105:ARG:HH12	2.08	0.52
44:SI:208:ALA:CA	44:SI:304:LYS:HG2	2.39	0.52
45:SJ:328:GLU:O	45:SJ:331:LEU:HB3	2.10	0.52
45:SJ:396:HIS:NE2	45:SJ:397:TRP:HD1	2.08	0.52
44:SK:93:ILE:HD12	44:SK:93:ILE:H	1.75	0.52
44:SK:332:ILE:HA	44:SK:335:ILE:CD1	2.37	0.52
44:SM:11:GLN:CA	44:SM:14:ILE:HD12	2.34	0.52
44:SM:285:GLN:HG3	44:SM:290:GLU:OE2	2.09	0.52
44:TA:289:ALA:HA	44:TA:292:THR:HG22	1.90	0.52
44:TA:384:ILE:HG13	44:TA:387:VAL:CG2	2.40	0.52
44:TC:270:SER:HB2	44:TC:378:ILE:CD1	2.39	0.52
44:TC:302:MET:HG3	44:TC:302:MET:O	2.09	0.52
45:TJ:54:ALA:HB3	45:TJ:58:ARG:O	2.09	0.52
45:TJ:102:ALA:HB2	45:TJ:398:TYR:CD1	2.45	0.52
44:TK:56:THR:O	44:UK:285:GLN:HA	2.09	0.52
44:TM:102:ASN:OD1	44:TM:104:ALA:HB3	2.09	0.52
44:TM:311:LYS:CD	44:TM:342:GLN:HG3	2.24	0.52
44:TM:417:GLU:O	44:TM:420:GLU:HG2	2.10	0.52
45:TN:304:ASP:OD1	45:TN:306:ARG:HG2	2.10	0.52
44:UA:31:GLN:CG	44:UA:35:GLN:H	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:269:LEU:N	44:UA:379:SER:O	2.41	0.52
44:UA:419:SER:O	44:UA:423:GLU:HG3	2.09	0.52
45:UB:396:HIS:HA	45:UB:399:THR:OG1	2.09	0.52
44:UC:141:VAL:HG12	44:UC:172:TYR:HA	1.89	0.52
44:UC:292:THR:O	44:UC:295:ALA:HB3	2.10	0.52
44:UE:319:TYR:CE2	44:UE:328:VAL:HG22	2.44	0.52
45:UF:19:LYS:HE3	45:UF:226:ASN:HB2	1.92	0.52
45:UF:36:TYR:OH	45:UF:43:GLN:HB2	2.10	0.52
45:UH:318:ARG:HB2	45:UH:364:ALA:HB3	1.92	0.52
44:UI:112:LYS:HA	44:UI:115:VAL:HG12	1.91	0.52
44:UI:269:LEU:HB2	44:UI:303:ALA:CB	2.40	0.52
45:UL:387:ALA:O	45:UL:390:ARG:HG2	2.10	0.52
45:UL:390:ARG:HG3	45:UL:391:ARG:N	2.24	0.52
44:UM:32:PRO:HB3	44:UM:83:TYR:CE1	2.45	0.52
44:VA:332:ILE:HD12	44:VA:351:PHE:CD2	2.45	0.52
45:VB:51:TYR:HA	45:VB:61:PRO:HA	1.91	0.52
44:VC:188:ILE:HG13	44:VC:395:PHE:CG	2.44	0.52
45:VD:210:ILE:HD12	45:VD:300:MET:CE	2.40	0.52
45:VD:245:GLN:C	45:VD:246:LEU:HD12	2.30	0.52
44:VE:183:GLU:N	44:VE:184:PRO:HD2	2.24	0.52
45:VH:50:TYR:OH	45:VH:134:GLN:OE1	2.25	0.52
44:VI:156:ARG:O	44:VI:159:VAL:HG12	2.09	0.52
44:VK:3:GLU:OE1	44:VK:130:THR:HG22	2.10	0.52
45:VL:311:LEU:HG	45:VL:372:THR:CG2	2.40	0.52
44:VM:120:ASP:HA	44:VM:123:ARG:HH11	1.74	0.52
44:VM:258:ASN:ND2	44:VM:352:LYS:HD3	2.25	0.52
45:VN:245:GLN:C	45:VN:246:LEU:HD12	2.30	0.52
44:WA:25:CYS:HG	44:WA:53:PHE:HZ	1.56	0.52
44:WA:279:GLU:C	44:WA:280:LYS:HD3	2.30	0.52
45:WB:131:GLN:NE2	45:WB:249:ASP:HB2	2.25	0.52
44:WC:3:GLU:OE1	44:WC:131:GLY:N	2.43	0.52
44:WC:174:SER:OG	44:WC:207:GLU:HB2	2.10	0.52
44:WC:210:TYR:CE1	44:WC:227:LEU:HD21	2.45	0.52
44:WC:287:SER:O	44:WC:291:ILE:HG23	2.09	0.52
44:WE:73:THR:HB	45:WF:247:ASN:OD1	2.10	0.52
44:WE:113:GLU:O	44:WE:114:ILE:HD13	2.09	0.52
44:WE:338:LYS:NZ	44:WE:341:ILE:HD12	2.23	0.52
44:WG:1:MET:HE1	45:WJ:94:GLN:HB3	1.91	0.52
45:WH:256:ASN:HB3	45:WH:257:LEU:HD12	1.91	0.52
45:WH:267:MET:HE2	45:WH:299:MET:CB	2.36	0.52
45:WH:326:VAL:O	45:WH:330:MET:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WL:116:VAL:O	45:WL:119:VAL:HG22	2.08	0.52
45:WL:318:ARG:HH11	45:WL:358:PRO:HG3	1.73	0.52
45:WN:67:ASP:OD2	45:WN:72:THR:HG21	2.09	0.52
1:6H:329:LEU:HD23	45:FJ:361:LEU:CG	2.24	0.52
6:0E:50:ILE:HG23	35:7R:382:TYR:CD1	2.45	0.52
7:0F:189:VAL:CG2	44:EE:89:PRO:HB3	2.40	0.52
12:0S:12:VAL:HG22	45:WB:94:GLN:HG2	1.90	0.52
5:1D:164:PRO:HD3	45:EF:39:ASP:O	2.09	0.52
12:1S:96:LEU:HD21	45:MF:410:GLU:OE1	2.09	0.52
15:1V:31:LEU:HD22	44:MI:390:ARG:HH21	1.75	0.52
22:3L:164:THR:HG21	45:BB:46:ARG:NH2	2.25	0.52
12:3S:20:ASN:HB3	45:WN:77:ARG:NH1	2.08	0.52
15:3V:98:LEU:HD11	44:LA:405:VAL:HG21	1.90	0.52
37:5C:40:VAL:HG13	44:KG:431:ASP:CG	2.29	0.52
39:5K:25:VAL:HG22	39:5K:28:LYS:NZ	2.24	0.52
36:5S:78:VAL:HB	36:5S:80:PHE:CE2	2.45	0.52
36:5S:144:ILE:CG2	36:5S:145:PRO:CD	2.87	0.52
41:6G:300:VAL:O	41:6G:300:VAL:HG23	2.10	0.52
41:6G:302:TYR:CE1	45:UB:122:LYS:HA	2.45	0.52
35:6R:268:GLU:HG2	45:DN:279:GLN:O	2.10	0.52
35:7R:302:LEU:HD12	35:7R:304:LEU:O	2.09	0.52
42:8N:320:UNK:O	42:8N:324:UNK:N	2.43	0.52
44:AA:89:PRO:HD3	44:BA:283:HIS:ND1	2.25	0.52
44:AA:212:ILE:CD1	44:AA:300:ASN:HA	2.39	0.52
44:AA:260:VAL:HG23	45:AD:397:TRP:HE1	1.75	0.52
45:AB:20:PHE:CE1	45:AB:24:ILE:HD11	2.45	0.52
45:AD:232:ALA:O	45:AD:236:VAL:HG23	2.09	0.52
44:AE:34:GLY:O	44:AE:60:LYS:HA	2.08	0.52
44:AE:76:ASP:OD1	44:AE:79:ARG:NH2	2.42	0.52
44:AE:97:GLU:HG2	44:AE:105:ARG:HH22	1.73	0.52
44:AE:181:VAL:CG1	45:AF:256:ASN:HB3	2.40	0.52
44:AE:244:PHE:CZ	44:AE:358:GLN:HG2	2.45	0.52
44:AG:311:LYS:HB2	44:AG:382:THR:OG1	2.09	0.52
44:AI:142:GLY:O	46:AI:501:GTP:H5'	2.10	0.52
45:AJ:238:CYS:HB2	45:AJ:318:ARG:NH1	2.25	0.52
45:AL:114:ASP:OD1	45:AL:115:SER:N	2.43	0.52
44:AM:189:LEU:O	44:AM:192:HIS:HB3	2.10	0.52
45:AN:202:ILE:HD12	45:AN:300:MET:HB3	1.91	0.52
44:BA:221:ARG:NH2	45:BB:325:GLU:CB	2.73	0.52
44:BC:404:PHE:CZ	45:BD:259:PRO:HA	2.45	0.52
45:BD:114:ASP:OD1	45:BD:115:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:210:TYR:CZ	45:BF:324:LYS:HB2	2.45	0.52
44:BG:62:VAL:HG13	44:BG:62:VAL:O	2.10	0.52
44:BK:66:VAL:HG11	44:BK:122:ILE:CD1	2.38	0.52
44:BK:288:VAL:HG11	44:BK:327:ASP:CB	2.40	0.52
44:BK:305:CYS:O	44:BK:307:PRO:HD3	2.10	0.52
45:BL:154:LYS:O	45:BL:158:GLU:HG3	2.09	0.52
44:BM:142:GLY:O	46:BM:501:GTP:H5'	2.10	0.52
45:BN:43:GLN:C	45:BN:44:LEU:HD12	2.29	0.52
44:CA:25:CYS:CA	44:CA:30:ILE:HB	2.39	0.52
44:CA:262:TYR:HH	45:CB:391:ARG:HB3	1.72	0.52
44:CA:269:LEU:HD12	44:CA:303:ALA:HB3	1.90	0.52
45:CB:52:ASN:N	45:CB:60:VAL:O	2.33	0.52
45:CB:211:CYS:CB	45:CB:217:LEU:HD21	2.39	0.52
45:CB:246:LEU:HB2	45:CB:353:ILE:CD1	2.40	0.52
44:CC:93:ILE:HD12	44:CC:93:ILE:H	1.75	0.52
44:CC:141:VAL:HG21	44:CC:190:SER:OG	2.10	0.52
44:CC:183:GLU:HA	44:CC:186:ASN:OD1	2.10	0.52
44:CE:171:ILE:HD13	44:CE:204:LEU:HB2	1.92	0.52
44:CE:247:ALA:HB2	44:CE:357:TYR:OH	2.10	0.52
45:CF:309:ARG:HG2	45:CF:309:ARG:HH11	1.73	0.52
44:CG:62:VAL:HG23	44:CG:62:VAL:O	2.09	0.52
45:CJ:54:ALA:HB1	45:DJ:282:ARG:O	2.09	0.52
44:CK:31:GLN:NE2	44:CK:37:PRO:HG3	2.25	0.52
44:CK:54:SER:HB3	44:CK:64:ARG:NH2	2.25	0.52
44:CK:321:GLY:O	44:CK:357:TYR:HA	2.09	0.52
45:CL:242:PHE:HB3	45:CL:243:PRO:CD	2.40	0.52
45:CL:265:PHE:HB2	45:CL:374:ILE:HD12	1.92	0.52
44:CM:171:ILE:HD13	46:CM:501:GTP:HN22	1.74	0.52
45:CN:342:VAL:HG11	45:CN:344:TRP:NE1	2.25	0.52
44:DA:223:THR:HG22	44:DA:226:ASN:OD1	2.10	0.52
45:DB:2:ARG:HA	45:DB:129:CYS:SG	2.50	0.52
45:DB:133:PHE:O	45:DB:165:GLU:HB2	2.09	0.52
45:DB:257:LEU:HD11	45:DB:314:SER:CB	2.33	0.52
45:DD:246:LEU:HB2	45:DD:353:ILE:CD1	2.39	0.52
44:DE:305:CYS:O	44:DE:307:PRO:HD3	2.10	0.52
45:DF:61:PRO:HG2	45:DF:84:LEU:HB3	1.91	0.52
45:DF:257:LEU:HA	45:DF:312:THR:CG2	2.39	0.52
45:DF:406:MET:O	45:DF:410:GLU:HG3	2.10	0.52
44:DG:217:LEU:HD13	44:DG:367:ASP:CB	2.39	0.52
44:DG:296:PHE:HD2	44:DG:335:ILE:HD12	1.75	0.52
45:DH:91:VAL:HG21	45:DH:116:VAL:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:301:MET:SD	44:DI:307:PRO:HG3	2.50	0.52
45:DJ:314:SER:HB3	45:DJ:368:VAL:CG1	2.40	0.52
45:DJ:344:TRP:HB3	45:DJ:430:ALA:HB2	1.91	0.52
45:DL:325:GLU:HA	45:DL:328:GLU:HG2	1.92	0.52
45:DN:64:ILE:HG12	45:DN:119:VAL:HG22	1.92	0.52
44:EA:2:ARG:HG2	44:EA:51:THR:OG1	2.09	0.52
45:EB:286:VAL:HG22	45:EB:321:MET:SD	2.49	0.52
44:EC:114:ILE:HG23	44:EC:115:VAL:H	1.75	0.52
44:EC:186:ASN:OD1	44:EC:187:SER:N	2.43	0.52
45:ED:49:VAL:HG21	45:ED:241:ARG:CD	2.40	0.52
44:EE:230:LEU:HD12	44:EE:275:ILE:HD11	1.91	0.52
44:EE:231:ILE:O	44:EE:234:VAL:N	2.42	0.52
45:EF:101:TRP:CE3	45:EF:187:LEU:HD13	2.45	0.52
45:EH:4:ILE:HG22	45:EH:132:GLY:N	2.24	0.52
45:EH:189:VAL:O	45:EH:193:VAL:HG12	2.10	0.52
45:EH:325:GLU:HG3	44:EI:221:ARG:NH1	2.25	0.52
44:EI:224:TYR:O	44:EI:227:LEU:N	2.42	0.52
45:EJ:11:GLN:HA	45:EJ:14:ASN:ND2	2.24	0.52
45:EJ:390:ARG:O	45:EJ:390:ARG:HD3	2.10	0.52
44:EK:271:SER:O	44:EK:377:MET:HG2	2.10	0.52
44:EM:286:LEU:CD1	44:EM:291:ILE:HG22	2.40	0.52
44:FC:184:PRO:HG3	44:FC:398:MET:CE	2.34	0.52
44:FC:269:LEU:N	44:FC:379:SER:O	2.42	0.52
45:FD:36:TYR:CD1	45:FD:44:LEU:HD21	2.45	0.52
45:FF:9:GLY:HA3	45:FF:147:MET:HE3	1.91	0.52
45:FF:64:ILE:CD1	45:FF:89:ASN:HB3	2.39	0.52
44:FG:145:THR:HG22	46:FG:501:GTP:O2G	2.10	0.52
44:FG:260:VAL:CG1	45:FJ:397:TRP:HE1	2.22	0.52
44:FG:265:ILE:HG23	44:FG:432:TYR:HE1	1.74	0.52
45:FH:124:ALA:HB1	45:FH:130:LEU:CD1	2.40	0.52
45:FH:234:SER:O	45:FH:237:THR:HG22	2.08	0.52
45:FJ:304:ASP:OD1	45:FJ:305:PRO:HD2	2.09	0.52
45:FL:137:HIS:HB2	45:FL:144:GLY:O	2.09	0.52
44:FM:103:PHE:O	44:FM:107:HIS:N	2.41	0.52
44:FM:194:LEU:HB2	44:FM:198:THR:OG1	2.10	0.52
44:FM:289:ALA:O	44:FM:292:THR:HG22	2.09	0.52
45:FN:161:ASP:OD1	45:FN:162:ARG:HG2	2.09	0.52
44:GA:259:LEU:HD11	44:GA:378:ILE:HG21	1.92	0.52
45:GB:65:LEU:O	45:GB:91:VAL:HG22	2.10	0.52
44:GC:175:PRO:HB3	44:GC:390:ARG:NE	2.25	0.52
44:GC:320:ARG:HH22	44:GC:360:PRO:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:13:GLY:O	45:GD:16:ILE:HB	2.10	0.52
45:GD:116:VAL:CA	45:GD:119:VAL:HG12	2.37	0.52
44:GE:33:ASP:HB3	44:GE:35:GLN:HE22	1.74	0.52
45:GF:40:SER:O	45:GF:43:GLN:HB2	2.09	0.52
45:GF:42:LEU:HD13	45:GF:45:GLU:OE1	2.09	0.52
45:GF:152:ILE:CG2	45:GF:156:ARG:NH1	2.73	0.52
45:GF:170:VAL:CG2	45:GF:171:PRO:HD2	2.40	0.52
44:GI:99:ALA:HB3	44:GI:145:THR:HG22	1.91	0.52
44:GI:268:MET:CB	44:GI:380:ASN:HB2	2.34	0.52
44:GI:372:MET:C	44:GI:373:ARG:HD2	2.30	0.52
45:GJ:86:ARG:CD	45:HJ:281:TYR:HB3	2.39	0.52
44:GK:66:VAL:HG22	44:GK:68:LEU:CD2	2.39	0.52
44:GK:221:ARG:N	44:GK:222:PRO:HD3	2.24	0.52
44:GK:262:TYR:HB3	44:GK:263:PRO:HD2	1.92	0.52
44:GK:311:LYS:HZ3	44:GK:342:GLN:HG3	1.73	0.52
44:GM:90:GLU:HB3	44:HM:280:LYS:NZ	2.25	0.52
45:GN:305:PRO:HB3	45:GN:310:TYR:OH	2.10	0.52
44:HA:145:THR:HG22	46:HA:501:GTP:O3G	2.09	0.52
44:HA:318:MET:CE	44:HA:352:LYS:HD2	2.39	0.52
44:HC:278:ALA:N	44:HC:369:ALA:HB2	2.25	0.52
45:HD:175:VAL:HG23	45:HD:175:VAL:O	2.10	0.52
45:HD:286:VAL:HG11	45:HD:325:GLU:OE2	2.09	0.52
45:HF:242:PHE:CG	45:HF:356:ILE:HG13	2.44	0.52
44:HG:28:HIS:NE2	44:HG:243:ARG:HD2	2.25	0.52
45:HH:257:LEU:HA	45:HH:312:THR:HG21	1.92	0.52
44:HI:301:MET:HG3	44:HI:303:ALA:O	2.10	0.52
45:HL:183:TYR:CE2	45:HL:394:PHE:HB2	2.40	0.52
45:HL:318:ARG:HD3	45:HL:358:PRO:HG3	1.91	0.52
44:HM:225:THR:O	44:HM:228:ASN:HB2	2.09	0.52
44:HM:226:ASN:HA	44:HM:229:ARG:HD2	1.92	0.52
45:HN:290:THR:HG21	45:HN:329:GLN:CB	2.40	0.52
45:IB:132:GLY:HA3	45:IB:163:ILE:HG12	1.90	0.52
44:IC:423:GLU:OE1	44:IC:423:GLU:N	2.39	0.52
45:IH:100:ASN:HD22	45:IH:398:TYR:HE1	1.56	0.52
45:IH:206:ALA:HB3	45:IH:300:MET:O	2.10	0.52
45:IJ:282:ARG:NH2	45:IJ:288:GLU:HB3	2.25	0.52
45:IL:372:THR:O	45:IL:375:GLN:HG2	2.10	0.52
44:IM:401:LYS:O	44:IM:402:ARG:HG2	2.10	0.52
45:IN:184:ASN:OD1	45:IN:185:ALA:N	2.42	0.52
45:IN:404:ASP:OD1	45:IN:407:GLU:HG3	2.10	0.52
45:JB:288:GLU:HA	45:JB:291:GLN:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:330:MET:O	45:JB:333:VAL:HG12	2.09	0.52
44:JC:26:LEU:O	44:JC:26:LEU:HD23	2.10	0.52
45:JH:289:LEU:HD13	45:JH:363:MET:CG	2.40	0.52
44:JI:200:VAL:HG13	44:JI:268:MET:SD	2.50	0.52
44:JK:288:VAL:HA	44:JK:291:ILE:CG1	2.39	0.52
44:JM:76:ASP:CG	45:JN:46:ARG:HH12	2.12	0.52
44:JM:214:ARG:O	44:JM:218:ASP:N	2.41	0.52
45:KB:323:THR:O	45:KB:326:VAL:HG12	2.10	0.52
44:KC:358:GLN:HA	44:KC:358:GLN:OE1	2.09	0.52
45:KD:164:MET:HE2	45:KD:196:ALA:HA	1.92	0.52
45:KD:254:ALA:O	45:KD:258:ILE:HG12	2.09	0.52
44:KE:52:PHE:HE1	44:KE:239:THR:HG21	1.72	0.52
44:KE:177:VAL:HG22	45:KF:331:LEU:HB2	1.91	0.52
44:KE:268:MET:CB	44:KE:380:ASN:HA	2.40	0.52
45:KF:100:ASN:HD22	45:KF:103:LYS:NZ	2.08	0.52
44:KG:301:MET:CG	44:KG:307:PRO:HG3	2.39	0.52
44:KG:404:PHE:CE1	45:KH:259:PRO:HA	2.44	0.52
45:KH:170:VAL:HG21	45:KH:377:MET:SD	2.50	0.52
45:KJ:182:PRO:HG2	45:KJ:388:MET:HE3	1.91	0.52
44:KK:302:MET:O	44:KK:302:MET:HG2	2.09	0.52
45:KL:248:SER:HA	45:KL:252:LYS:HD2	1.92	0.52
45:KL:407:GLU:O	45:KL:410:GLU:HG2	2.10	0.52
44:KM:109:THR:HG23	44:KM:110:ILE:N	2.23	0.52
44:KM:280:LYS:HD3	44:KM:280:LYS:O	2.08	0.52
44:KM:346:TRP:CZ2	44:KM:435:VAL:HG22	2.43	0.52
45:KN:22:GLU:CG	45:KN:81:PHE:HE2	2.23	0.52
45:KN:376:GLU:O	45:KN:380:ARG:HG2	2.10	0.52
44:LA:23:LEU:HD11	44:LA:361:THR:HG23	1.90	0.52
45:LB:20:PHE:HE1	45:LB:233:MET:HB3	1.75	0.52
44:LC:261:PRO:HB3	44:LC:346:TRP:CH2	2.45	0.52
45:LD:150:LEU:HD23	45:LD:150:LEU:O	2.10	0.52
44:LE:20:CYS:HA	44:LE:232:ALA:HB1	1.91	0.52
44:LE:276:ILE:HD11	44:LE:281:ALA:HA	1.92	0.52
45:LF:48:ASN:HA	45:LF:51:TYR:O	2.09	0.52
44:LM:273:ALA:HB3	44:LM:375:VAL:CG2	2.40	0.52
44:LM:306:ASP:HB3	44:LM:309:HIS:ND1	2.25	0.52
45:MB:2:ARG:HA	45:MB:129:CYS:O	2.10	0.52
44:MC:14:ILE:HD13	44:MC:75:ILE:CD1	2.40	0.52
45:MD:189:VAL:HG21	45:MD:378:PHE:CZ	2.44	0.52
45:MF:21:TRP:CH2	45:MF:61:PRO:HB3	2.45	0.52
45:MF:275:SER:O	45:MF:277:GLY:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:268:ILE:HG22	45:MH:368:VAL:HG22	1.92	0.52
44:MI:221:ARG:CZ	45:MJ:325:GLU:HB3	2.40	0.52
44:MI:325:PRO:HG2	45:ML:222:TYR:HD1	1.75	0.52
44:MK:332:ILE:HD12	44:MK:351:PHE:CE2	2.45	0.52
45:ML:8:GLN:NE2	45:ML:65:LEU:HG	2.18	0.52
44:MM:256:GLN:NE2	44:MM:257:THR:HG23	2.25	0.52
44:NA:155:GLU:HG2	44:NA:197:HIS:NE2	2.25	0.52
44:NA:295:ALA:HB1	44:NA:377:MET:CG	2.37	0.52
45:NB:313:ALA:HA	45:NB:369:GLY:HA2	1.90	0.52
44:NC:55:GLU:HG3	44:NC:57:GLY:H	1.74	0.52
45:NF:185:ALA:O	45:NF:189:VAL:HG23	2.10	0.52
44:NG:294:SER:HA	44:NG:297:GLU:CG	2.34	0.52
45:NH:186:THR:HG23	45:NH:415:MET:SD	2.50	0.52
45:NJ:58:ARG:HH11	45:OJ:280:GLN:HG2	1.75	0.52
45:NJ:319:GLY:HA2	45:NJ:357:PRO:HB3	1.91	0.52
44:NK:9:VAL:O	44:NK:13:GLY:HA3	2.09	0.52
44:NK:245:ASP:OD1	44:NK:246:GLY:N	2.43	0.52
44:NK:313:MET:HB2	44:NK:380:ASN:O	2.09	0.52
45:NL:263:LEU:HD21	45:NL:422:TYR:CD1	2.45	0.52
45:NL:398:TYR:HD1	45:NL:403:MET:CE	2.23	0.52
44:NM:301:MET:HE3	44:NM:307:PRO:HD3	1.90	0.52
45:NN:64:ILE:HG21	45:NN:119:VAL:HG11	1.92	0.52
45:NN:95:THR:HG23	45:NN:96:GLY:N	2.25	0.52
45:NN:109:GLY:O	45:NN:113:ILE:HB	2.10	0.52
44:OA:347:CYS:CA	45:OD:388:MET:HE1	2.32	0.52
45:OB:143:THR:O	45:OB:147:MET:SD	2.68	0.52
44:OC:216:ASN:HB3	44:OC:275:ILE:O	2.10	0.52
45:OD:233:MET:O	45:OD:236:VAL:HG12	2.10	0.52
44:OE:63:PRO:HG2	44:OE:86:LEU:HG	1.91	0.52
44:OE:224:TYR:HB3	46:OE:501:GTP:O6	2.09	0.52
44:OG:24:PHE:CZ	44:OG:235:ILE:HG22	2.41	0.52
45:OH:330:MET:HB3	45:OH:349:ILE:HG21	1.91	0.52
44:OI:204:LEU:CD1	44:OI:231:ILE:HD11	2.33	0.52
44:OK:46:ASP:OD1	44:OK:48:ALA:HB2	2.10	0.52
44:OK:181:VAL:HG11	45:OL:256:ASN:O	2.10	0.52
44:OM:101:ASN:HA	44:OM:144:GLY:CA	2.39	0.52
45:ON:290:THR:HG21	45:ON:329:GLN:OE1	2.09	0.52
44:PA:433:GLU:O	44:PA:437:ILE:HD12	2.10	0.52
45:PB:114:ASP:OD1	45:PB:115:SER:N	2.43	0.52
45:PD:140:GLY:HA3	45:PD:171:PRO:HG3	1.91	0.52
45:PD:199:CYS:N	45:PD:264:HIS:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:241:SER:CB	44:PE:250:VAL:H	2.22	0.52
44:PE:317:MET:HE1	44:PE:319:TYR:HE2	1.75	0.52
44:PE:319:TYR:HE1	44:PE:328:VAL:HG22	1.75	0.52
45:PF:24:ILE:HD11	45:PF:230:SER:C	2.30	0.52
45:PF:240:LEU:HD12	45:PF:249:ASP:HA	1.92	0.52
45:PH:310:TYR:CE1	45:PH:371:SER:HB2	2.45	0.52
45:PJ:316:LEU:HG	45:PJ:352:SER:HB2	1.91	0.52
44:PK:17:GLY:O	44:PK:20:CYS:HB2	2.10	0.52
44:PM:72:PRO:HG3	44:PM:96:LYS:CA	2.39	0.52
44:PM:201:ALA:O	44:PM:268:MET:N	2.39	0.52
44:PM:290:GLU:O	44:PM:294:SER:OG	2.23	0.52
45:PN:19:LYS:O	45:PN:22:GLU:HB2	2.09	0.52
45:QB:31:ASP:HB2	45:QB:35:THR:O	2.10	0.52
44:QC:132:LEU:HD22	44:QC:164:LYS:CG	2.39	0.52
45:QD:69:GLU:OE1	45:QD:71:GLY:N	2.42	0.52
45:QD:267:MET:CE	45:QD:299:MET:HB3	2.39	0.52
45:QF:36:TYR:CD1	45:QF:44:LEU:HD21	2.45	0.52
45:QF:115:SER:O	45:QF:119:VAL:N	2.36	0.52
45:QF:255:VAL:HA	44:QG:407:TRP:HZ3	1.75	0.52
45:QF:285:THR:HG23	45:QF:287:PRO:CD	2.38	0.52
44:QG:231:ILE:O	44:QG:234:VAL:HB	2.09	0.52
45:QH:113:ILE:CA	45:QH:116:VAL:HG12	2.39	0.52
45:QH:267:MET:HE2	45:QH:374:ILE:HG23	1.92	0.52
45:QJ:266:PHE:CD1	45:QJ:370:ASN:HB2	2.45	0.52
45:QL:22:GLU:HG2	45:QL:81:PHE:CG	2.45	0.52
44:QM:265:ILE:HG23	44:QM:432:TYR:CE1	2.44	0.52
45:QN:86:ARG:HH11	45:RN:281:TYR:HB3	1.75	0.52
45:QN:168:SER:O	45:QN:202:ILE:HG13	2.10	0.52
44:RA:326:LYS:HD2	44:RA:327:ASP:N	2.24	0.52
45:RB:46:ARG:NH2	44:RC:76:ASP:OD2	2.43	0.52
45:RB:117:LEU:HG	45:RB:121:ARG:NH2	2.24	0.52
44:RC:23:LEU:CD2	44:RC:236:SER:HB2	2.39	0.52
45:RD:4:ILE:CG2	45:RD:131:GLN:HB2	2.40	0.52
45:RD:101:TRP:CD1	45:RD:146:GLY:HA2	2.45	0.52
44:RE:248:LEU:HB2	44:RE:355:ILE:HD12	1.90	0.52
45:RF:25:SER:CA	45:RF:30:ILE:HB	2.39	0.52
45:RF:313:ALA:HA	45:RF:369:GLY:HA3	1.90	0.52
45:RF:345:ILE:O	45:RF:345:ILE:HG23	2.09	0.52
45:RH:270:PHE:CD2	45:RH:273:LEU:HD21	2.39	0.52
44:RI:164:LYS:HD3	44:RI:165:SER:N	2.22	0.52
44:RI:349:THR:CG2	45:RJ:182:PRO:HD3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:288:VAL:HG11	44:RM:327:ASP:HB3	1.92	0.52
45:RN:68:LEU:HG	45:RN:96:GLY:N	2.24	0.52
45:RN:237:THR:CG2	45:RN:241:ARG:HE	2.22	0.52
44:SA:252:ILE:HG23	44:SA:255:PHE:CD2	2.45	0.52
45:SB:237:THR:OG1	45:SB:241:ARG:NH2	2.43	0.52
45:SB:314:SER:CA	45:SB:350:LYS:HB3	2.39	0.52
45:SB:345:ILE:O	45:SB:345:ILE:HG23	2.10	0.52
45:SD:49:VAL:CG1	45:SD:241:ARG:HG2	2.35	0.52
45:SD:374:ILE:O	45:SD:377:MET:HE2	2.08	0.52
44:SE:2:ARG:NH2	44:SE:243:ARG:HA	2.20	0.52
45:SF:36:TYR:CE1	45:SF:44:LEU:HD21	2.45	0.52
45:SF:161:ASP:OD1	45:SF:162:ARG:N	2.43	0.52
44:SG:106:GLY:O	44:SG:111:GLY:HA3	2.10	0.52
44:SG:307:PRO:HA	44:SG:383:ALA:HB3	1.92	0.52
45:SH:166:THR:O	45:SH:199:CYS:HA	2.10	0.52
44:SK:276:ILE:HD11	44:SK:281:ALA:HA	1.90	0.52
45:SN:383:GLU:O	45:SN:386:THR:HG22	2.09	0.52
45:TB:257:LEU:HA	45:TB:312:THR:CG2	2.37	0.52
45:TB:303:ALA:HB2	45:TB:374:ILE:HA	1.91	0.52
45:TB:309:ARG:HD3	45:TB:426:GLN:HG3	1.92	0.52
45:TB:318:ARG:CG	45:TB:358:PRO:HD3	2.40	0.52
44:TC:180:ALA:HB3	44:TC:183:GLU:HG3	1.92	0.52
44:TC:317:MET:HE2	44:TC:352:LYS:H	1.74	0.52
44:TC:405:VAL:HG13	44:TC:418:PHE:CE2	2.44	0.52
45:TD:324:LYS:O	45:TD:328:GLU:HG2	2.10	0.52
44:TE:105:ARG:HA	44:TE:109:THR:HB	1.91	0.52
45:TF:6:HIS:HB3	45:TF:63:ALA:CB	2.39	0.52
45:TF:55:THR:HG21	45:UF:284:LEU:CD1	2.36	0.52
45:TF:325:GLU:CA	45:TF:328:GLU:HG2	2.31	0.52
44:TG:31:GLN:OE1	44:TG:37:PRO:HG3	2.10	0.52
44:TG:145:THR:HG21	46:TG:501:GTP:O3G	2.09	0.52
44:TG:417:GLU:O	44:TG:420:GLU:HG2	2.09	0.52
44:TI:236:SER:O	44:TI:239:THR:N	2.38	0.52
44:TI:251:ASP:HB2	44:TI:253:THR:HG22	1.92	0.52
45:TJ:197:ASP:O	45:TJ:198:GLU:HG3	2.08	0.52
44:TK:90:GLU:HG3	44:TK:121:ARG:NH2	2.23	0.52
45:TL:174:LYS:CE	45:TL:205:GLU:HG3	2.38	0.52
45:TL:318:ARG:HG2	45:TL:354:CYS:HB3	1.90	0.52
45:TL:399:THR:HA	45:TL:403:MET:O	2.10	0.52
44:TM:4:VAL:CG2	44:TM:136:LEU:HD23	2.39	0.52
44:TM:71:GLU:OE1	44:TM:73:THR:HB	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:93:ILE:HD11	44:TM:121:ARG:HH11	1.74	0.52
45:TN:50:TYR:O	45:TN:62:ARG:HG3	2.10	0.52
44:UA:11:GLN:HE22	44:UA:74:VAL:CG2	2.20	0.52
44:UA:200:VAL:HG13	44:UA:268:MET:SD	2.50	0.52
44:UA:216:ASN:HB3	44:UA:275:ILE:O	2.09	0.52
44:UA:317:MET:HE1	44:UA:376:CYS:C	2.30	0.52
45:UB:242:PHE:HB3	45:UB:356:ILE:HG12	1.92	0.52
45:UB:316:LEU:HG	45:UB:352:SER:CB	2.38	0.52
44:UC:36:MET:SD	44:UC:38:SER:OG	2.61	0.52
45:UD:68:LEU:HD23	45:UD:97:ALA:CB	2.40	0.52
45:UD:151:LEU:O	45:UD:155:VAL:HG22	2.09	0.52
44:UE:288:VAL:CA	44:UE:373:ARG:HH12	2.23	0.52
45:UF:245:GLN:HB3	44:UG:224:TYR:HE2	1.73	0.52
45:UH:192:LEU:CD1	45:UH:196:ALA:HB2	2.39	0.52
44:UI:174:SER:OG	44:UI:207:GLU:N	2.42	0.52
44:UI:290:GLU:HA	44:UI:293:ASN:HB2	1.91	0.52
45:UJ:166:THR:OG1	45:UJ:199:CYS:HA	2.10	0.52
44:UK:155:GLU:HA	44:UK:197:HIS:CE1	2.45	0.52
44:UK:183:GLU:N	44:UK:184:PRO:HD2	2.24	0.52
44:UK:212:ILE:HG13	44:UK:302:MET:SD	2.49	0.52
45:UL:24:ILE:HA	45:UL:27:GLU:HB2	1.91	0.52
45:UL:334:GLN:HB2	45:UL:349:ILE:HD11	1.91	0.52
44:VC:183:GLU:CD	44:VC:184:PRO:HD3	2.29	0.52
45:VD:244:GLY:HA2	45:VD:355:ASP:OD2	2.09	0.52
44:VE:141:VAL:O	44:VE:147:SER:HB3	2.10	0.52
44:VE:182:VAL:O	44:VE:182:VAL:HG22	2.10	0.52
44:VE:344:VAL:HG22	44:VE:345:ASP:H	1.75	0.52
44:VE:349:THR:OG1	45:VH:176:SER:OG	1.97	0.52
45:VF:342:VAL:N	45:VF:347:ASN:O	2.42	0.52
45:VH:130:LEU:HD21	45:VH:133:PHE:CE1	2.45	0.52
45:VJ:338:SER:O	45:VJ:340:TYR:N	2.43	0.52
44:VK:288:VAL:CA	44:VK:291:ILE:HG12	2.40	0.52
45:VN:202:ILE:CD1	45:VN:229:VAL:HG22	2.38	0.52
45:VN:315:ALA:O	45:VN:351:SER:HA	2.09	0.52
44:WA:169:PHE:CZ	44:WA:238:LEU:HD13	2.45	0.52
44:WA:387:VAL:HA	44:WA:390:ARG:CG	2.40	0.52
45:WB:21:TRP:CZ3	45:WB:50:TYR:HB3	2.45	0.52
45:WB:85:PHE:HD2	45:WB:90:PHE:HZ	1.58	0.52
45:WB:135:ILE:HG13	45:WB:152:ILE:HD12	1.90	0.52
44:WC:10:GLY:O	44:WC:14:ILE:N	2.33	0.52
44:WE:104:ALA:CB	44:WE:411:GLU:HB2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:258:ASN:O	45:WH:179:VAL:HG21	2.09	0.52
44:WG:121:ARG:O	44:WG:125:LEU:HG	2.10	0.52
44:WG:141:VAL:HA	44:WG:147:SER:HB3	1.91	0.52
44:WG:288:VAL:CA	44:WG:291:ILE:HG22	2.40	0.52
45:WH:68:LEU:HD23	45:WH:143:THR:OG1	2.08	0.52
45:WH:325:GLU:HA	45:WH:328:GLU:CG	2.36	0.52
44:WI:224:TYR:O	44:WI:227:LEU:N	2.42	0.52
44:WI:252:ILE:HA	44:WI:255:PHE:HD2	1.75	0.52
44:WI:315:CYS:SG	44:WI:379:SER:HB3	2.49	0.52
44:WI:318:MET:SD	44:WI:354:GLY:HA3	2.49	0.52
44:WK:19:ALA:CB	44:WK:228:ASN:HB3	2.40	0.52
44:WK:298:PRO:HG3	44:WK:308:ARG:NH1	2.25	0.52
45:WL:69:GLU:OE1	45:WL:71:GLY:N	2.38	0.52
44:WM:398:MET:CE	45:WN:346:PRO:HD2	2.38	0.52
45:WN:180:VAL:O	45:WN:180:VAL:HG22	2.09	0.52
1:6H:266:LYS:HD3	44:FE:364:PRO:HG2	1.92	0.52
2:0A:39:TYR:HE2	44:MA:78:VAL:HA	1.73	0.52
5:1D:85:VAL:HG12	45:EF:355:ASP:OD2	2.09	0.52
18:1F:151:MET:SD	45:GL:91:VAL:HG12	2.50	0.52
8:1G:105:TYR:HE2	44:JA:81:GLY:HA3	1.75	0.52
9:1H:296:ARG:CD	44:HC:372:MET:HG3	2.40	0.52
22:1L:423:TYR:OH	44:BG:84:ARG:NH2	2.39	0.52
13:1T:146:MET:CE	45:MF:402:GLY:HA2	2.40	0.52
17:2B:59:PHE:CD2	44:LK:32:PRO:HB2	2.45	0.52
5:2D:171:LEU:HD21	44:EK:79:ARG:HB3	1.91	0.52
29:2F:83:ARG:O	44:GE:96:LYS:HD2	2.10	0.52
15:2V:51:LEU:HD13	44:LE:117:LEU:HD11	1.92	0.52
6:3E:47:GLU:CG	35:6R:380:ARG:HH21	2.23	0.52
32:3I:260:MET:N	45:FJ:125:GLU:OE2	2.43	0.52
28:4C:4:TYR:CD2	45:LN:359:LYS:HD3	2.44	0.52
37:5D:22:TYR:HE1	45:KN:383:GLU:HA	1.75	0.52
38:5E:79:ASN:HB3	45:KB:260:PHE:CE1	2.44	0.52
38:5E:123:ARG:HE	44:OA:370:LYS:HD3	1.75	0.52
38:5H:85:GLN:HG3	38:5H:96:TYR:CZ	2.44	0.52
35:5R:33:LEU:H	44:LG:1:MET:CE	2.21	0.52
35:5R:412:ASP:O	35:5R:416:MET:HE1	2.09	0.52
40:6F:43:GLU:HB2	40:6F:56:LEU:HA	1.92	0.52
41:6G:227:PRO:HD3	44:VC:338:LYS:HD2	1.92	0.52
35:6R:268:GLU:CG	45:DN:279:GLN:O	2.51	0.52
35:7R:249:LEU:CB	44:CA:370:LYS:HZ1	2.23	0.52
35:7R:309:LEU:HD23	35:7R:329:TYR:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:137:VAL:HG13	44:AA:168:GLY:HA2	1.92	0.52
44:AA:273:ALA:HA	44:AA:275:ILE:CD1	2.37	0.52
45:AB:8:GLN:HB2	45:AB:13:GLY:C	2.30	0.52
44:AC:2:ARG:HD2	44:AC:242:LEU:O	2.10	0.52
45:AD:97:ALA:HA	45:AD:103:LYS:HG2	1.92	0.52
45:AD:185:ALA:O	45:AD:188:SER:OG	2.27	0.52
45:AD:304:ASP:OD1	45:AD:306:ARG:HG2	2.10	0.52
44:AE:89:PRO:HG2	44:BE:280:LYS:CB	2.40	0.52
44:AE:306:ASP:OD2	44:AE:308:ARG:NH2	2.43	0.52
45:AF:47:ILE:O	45:AF:51:TYR:HB2	2.10	0.52
45:AF:187:LEU:HD21	45:AF:408:PHE:CE1	2.45	0.52
45:AH:267:MET:CE	45:AH:299:MET:HE3	2.39	0.52
45:AH:271:ALA:HB1	45:AH:272:PRO:HA	1.92	0.52
44:AI:188:ILE:CD1	44:AI:425:LEU:HG	2.36	0.52
44:AK:256:GLN:C	45:AN:397:TRP:HH2	2.12	0.52
44:AK:262:TYR:HB3	44:AK:263:PRO:HD2	1.92	0.52
45:AL:54:ALA:CB	45:BL:283:ALA:HB2	2.40	0.52
45:AL:309:ARG:O	45:AL:372:THR:OG1	2.13	0.52
45:AN:383:GLU:O	45:AN:386:THR:HG22	2.09	0.52
44:BA:7:ILE:HD12	44:BA:66:VAL:CG1	2.40	0.52
44:BA:217:LEU:CB	44:BA:219:ILE:HG13	2.40	0.52
44:BA:238:LEU:O	44:BA:238:LEU:HD23	2.09	0.52
44:BC:7:ILE:HD12	44:BC:66:VAL:CG1	2.40	0.52
44:BC:55:GLU:CD	44:BC:57:GLY:H	2.12	0.52
44:BC:185:TYR:HE2	44:BC:404:PHE:HB2	1.75	0.52
44:BC:403:ALA:HA	45:BD:260:PHE:CE1	2.45	0.52
45:BD:173:PRO:CD	45:BD:380:ARG:HD3	2.39	0.52
44:BE:288:VAL:HG21	44:BE:327:ASP:HB3	1.92	0.52
44:BE:420:GLU:O	44:BE:423:GLU:HG2	2.10	0.52
45:BF:180:VAL:CG2	45:BF:183:TYR:HB2	2.40	0.52
44:BG:102:ASN:O	44:BG:105:ARG:HB2	2.10	0.52
44:BG:383:ALA:O	44:BG:386:GLU:HG2	2.10	0.52
45:BH:65:LEU:HD21	45:BH:85:PHE:HE2	1.75	0.52
44:BI:172:TYR:HD2	44:BI:203:MET:SD	2.32	0.52
44:BI:304:LYS:HA	44:BI:304:LYS:HE2	1.91	0.52
44:BK:439:THR:HB	45:BN:391:ARG:NH2	2.25	0.52
45:BL:135:ILE:CG1	45:BL:166:THR:HG22	2.40	0.52
45:BL:217:LEU:HD11	45:BL:220:PRO:CG	2.38	0.52
45:BL:263:LEU:HD22	45:BL:422:TYR:HD1	1.75	0.52
45:BL:287:PRO:HG3	45:BL:329:GLN:NE2	2.25	0.52
45:BN:1:MET:HE1	45:BN:2:ARG:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:306:ARG:HG3	45:BN:307:HIS:CD2	2.45	0.52
44:CA:4:VAL:HG23	44:CA:134:GLY:O	2.09	0.52
44:CA:91:GLN:HG2	44:CA:121:ARG:CD	2.40	0.52
44:CA:213:CYS:O	44:CA:218:ASP:N	2.43	0.52
45:CB:67:ASP:HB2	45:CB:73:MET:HE3	1.92	0.52
45:CB:389:PHE:O	45:CB:392:LYS:HD3	2.10	0.52
45:CB:405:GLU:O	45:CB:409:THR:HG23	2.10	0.52
45:CD:68:LEU:HD23	45:CD:97:ALA:N	2.25	0.52
45:CD:325:GLU:HG3	45:CD:329:GLN:CG	2.39	0.52
44:CE:409:VAL:HG22	44:CE:413:MET:O	2.10	0.52
45:CH:187:LEU:HD21	45:CH:408:PHE:CE1	2.45	0.52
45:CH:237:THR:HG23	45:CH:241:ARG:NH2	2.23	0.52
44:CI:1:MET:C	44:CI:2:ARG:HD3	2.30	0.52
44:CI:98:ASP:O	44:CI:105:ARG:NH1	2.42	0.52
44:CI:183:GLU:N	44:CI:184:PRO:HD2	2.24	0.52
45:CJ:257:LEU:HD21	45:CJ:368:VAL:CG1	2.40	0.52
45:CL:47:ILE:HD13	45:CL:59:TYR:CE2	2.44	0.52
45:CL:105:HIS:HD1	45:CL:106:TYR:HD1	1.56	0.52
44:CM:91:GLN:HG3	44:CM:92:LEU:HD22	1.91	0.52
44:CM:189:LEU:HD21	44:CM:418:PHE:CD1	2.45	0.52
44:DA:392:ASP:HA	44:DA:395:PHE:HB3	1.91	0.52
45:DB:1:MET:HE2	44:DC:96:LYS:HD3	1.92	0.52
45:DB:6:HIS:CE1	45:DB:136:THR:HG23	2.40	0.52
45:DB:133:PHE:O	45:DB:165:GLU:N	2.33	0.52
45:DB:153:SER:O	45:DB:156:ARG:NH1	2.43	0.52
45:DB:269:GLY:O	45:DB:367:PHE:HB3	2.10	0.52
44:DC:217:LEU:HD13	44:DC:367:ASP:HB3	1.91	0.52
44:DE:3:GLU:OE2	44:DE:131:GLY:N	2.34	0.52
44:DE:3:GLU:HG3	44:DE:129:CYS:SG	2.50	0.52
44:DE:118:CYS:O	44:DE:122:ILE:HG12	2.09	0.52
44:DE:141:VAL:HG21	44:DE:172:TYR:CE1	2.45	0.52
44:DE:288:VAL:HA	44:DE:291:ILE:HG12	1.90	0.52
44:DG:261:PRO:HA	45:DH:394:PHE:CD2	2.45	0.52
44:DG:284:GLU:OE2	44:DG:286:LEU:HD13	2.10	0.52
44:DI:183:GLU:HG2	44:DI:184:PRO:CD	2.40	0.52
44:DI:276:ILE:HD13	44:DI:281:ALA:HA	1.91	0.52
44:DK:183:GLU:CG	44:DK:184:PRO:HD3	2.39	0.52
44:DK:221:ARG:HG3	44:DK:221:ARG:O	2.10	0.52
45:DL:315:ALA:C	45:DL:316:LEU:HD12	2.31	0.52
44:DM:75:ILE:HG22	44:DM:79:ARG:HG3	1.92	0.52
45:DN:193:VAL:HA	45:DN:264:HIS:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:97:ALA:CB	45:EB:143:THR:HG22	2.28	0.52
45:EB:169:VAL:HG22	45:EB:202:ILE:CG2	2.40	0.52
44:EC:70:LEU:HG	44:EC:145:THR:OG1	2.10	0.52
44:EC:298:PRO:HA	44:EC:301:MET:CG	2.36	0.52
45:ED:18:ALA:O	45:ED:22:GLU:HG3	2.10	0.52
44:EE:188:ILE:C	44:EE:191:THR:H	2.12	0.52
45:EF:207:LEU:O	45:EF:211:CYS:N	2.43	0.52
45:EF:324:LYS:HD3	44:EG:222:PRO:HG2	1.90	0.52
45:EF:346:PRO:HD2	44:EG:398:MET:HE2	1.92	0.52
45:EH:139:LEU:HA	45:EH:145:SER:CB	2.40	0.52
45:EH:211:CYS:HA	45:EH:215:LEU:HD12	1.92	0.52
45:EJ:269:GLY:HA2	45:EJ:300:MET:CE	2.40	0.52
45:EJ:272:PRO:HD2	45:EJ:364:ALA:HB2	1.90	0.52
45:EJ:289:LEU:HD12	45:EJ:363:MET:HE2	1.92	0.52
44:EK:9:VAL:HA	44:EK:68:LEU:O	2.09	0.52
45:EL:236:VAL:HG13	45:EL:237:THR:N	2.25	0.52
45:EN:97:ALA:CB	45:EN:143:THR:HB	2.37	0.52
45:EN:180:VAL:HG22	45:EN:183:TYR:HB3	1.91	0.52
44:FA:287:SER:O	44:FA:290:GLU:HG2	2.10	0.52
44:FC:11:GLN:HG3	44:FC:74:VAL:CG1	2.38	0.52
44:FE:107:HIS:CE1	44:FE:152:LEU:HD13	2.44	0.52
44:FE:221:ARG:CZ	45:FF:322:SER:HB2	2.40	0.52
44:FE:394:LYS:HD2	45:FF:346:PRO:HG2	1.92	0.52
45:FF:113:ILE:O	45:FF:116:VAL:HG12	2.10	0.52
44:FG:358:GLN:NE2	44:FG:359:PRO:HD2	2.25	0.52
45:FH:267:MET:HE1	45:FH:371:SER:HB3	1.91	0.52
44:FI:13:GLY:O	44:FI:16:VAL:HG12	2.10	0.52
44:FI:254:GLU:HG2	45:FL:98:GLY:CA	2.20	0.52
44:FK:175:PRO:HG2	44:FK:176:GLN:OE1	2.10	0.52
44:FK:276:ILE:CD1	44:FK:281:ALA:HA	2.39	0.52
44:FK:390:ARG:O	44:FK:393:HIS:HB3	2.10	0.52
45:FN:226:ASN:O	45:FN:229:VAL:HB	2.09	0.52
45:FN:286:VAL:N	45:FN:287:PRO:HD2	2.25	0.52
44:GA:269:LEU:N	44:GA:379:SER:O	2.40	0.52
45:GB:227:HIS:O	45:GB:230:SER:HB2	2.09	0.52
45:GB:316:LEU:HA	45:GB:352:SER:O	2.09	0.52
44:GC:265:ILE:HG23	44:GC:265:ILE:O	2.10	0.52
44:GC:357:TYR:O	44:GC:359:PRO:HD3	2.09	0.52
44:GE:392:ASP:OD2	44:GE:422:ARG:NH2	2.43	0.52
45:GF:69:GLU:OE2	45:GF:72:THR:HB	2.10	0.52
44:GG:105:ARG:NH2	44:GG:110:ILE:HD13	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:141:VAL:HG21	44:GG:172:TYR:CE1	2.45	0.52
44:GG:175:PRO:HG2	44:GG:176:GLN:NE2	2.25	0.52
44:GG:200:VAL:HG13	44:GG:268:MET:HE1	1.91	0.52
44:GG:324:VAL:HG21	44:GG:326:LYS:HE3	1.92	0.52
45:GH:21:TRP:O	45:GH:25:SER:OG	2.20	0.52
45:GH:99:ASN:HA	45:GH:142:GLY:H	1.74	0.52
44:GI:202:VAL:HA	44:GI:268:MET:O	2.09	0.52
44:GI:403:ALA:O	44:GI:404:PHE:HB2	2.08	0.52
44:GK:11:GLN:O	44:GK:15:GLN:HG3	2.10	0.52
44:GK:254:GLU:HG2	45:GN:98:GLY:O	2.10	0.52
44:GM:53:PHE:CD2	44:GM:63:PRO:HA	2.44	0.52
44:GM:316:SER:O	44:GM:378:ILE:HD12	2.10	0.52
45:GN:30:ILE:HG23	45:GN:35:THR:O	2.10	0.52
45:GN:304:ASP:OD1	45:GN:305:PRO:HD2	2.10	0.52
44:HA:136:LEU:HD23	44:HA:167:LEU:HB2	1.92	0.52
44:HA:280:LYS:HD2	44:HA:283:HIS:ND1	2.25	0.52
44:HC:406:HIS:NE2	45:HD:261:PRO:HB3	2.25	0.52
45:HD:99:ASN:CA	45:HD:142:GLY:HA3	2.38	0.52
45:HD:248:SER:HA	45:HD:252:LYS:CD	2.33	0.52
45:HF:131:GLN:O	45:HF:163:ILE:HG12	2.10	0.52
45:HF:291:GLN:NE2	45:HF:292:GLN:HG3	2.25	0.52
44:HG:71:GLU:CD	44:HG:73:THR:H	2.10	0.52
44:HG:250:VAL:HB	44:HG:318:MET:HE3	1.92	0.52
45:HH:239:CYS:CB	45:HH:354:CYS:HB2	2.40	0.52
44:HI:308:ARG:O	44:HI:340:THR:HA	2.09	0.52
44:HI:407:TRP:HZ3	45:HJ:255:VAL:CG2	2.23	0.52
45:HL:344:TRP:CE3	45:HL:345:ILE:HB	2.44	0.52
44:HM:146:GLY:N	46:HM:501:GTP:O1B	2.43	0.52
44:HM:291:ILE:HG13	44:HM:292:THR:N	2.24	0.52
45:HN:97:ALA:CB	45:HN:143:THR:HB	2.39	0.52
45:HN:225:LEU:HD13	48:HN:501:GDP:HN21	1.75	0.52
45:HN:237:THR:OG1	45:HN:240:LEU:HB3	2.10	0.52
44:IA:68:LEU:HD21	44:IA:118:CYS:CB	2.40	0.52
44:IA:312:TYR:HE2	44:IA:341:ILE:HG23	1.75	0.52
45:IB:285:THR:H	45:IB:288:GLU:HB2	1.75	0.52
45:IB:295:ASP:CG	45:IB:297:LYS:HG2	2.30	0.52
44:IC:178:SER:CB	45:ID:347:ASN:HB3	2.40	0.52
44:IE:210:TYR:CD1	44:IE:227:LEU:HD21	2.45	0.52
44:IE:224:TYR:CE2	45:IF:246:LEU:HD11	2.45	0.52
44:IE:279:GLU:OE1	44:IE:280:LYS:HB2	2.10	0.52
45:IF:387:ALA:O	45:IF:390:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:276:ILE:HD12	44:IG:284:GLU:OE2	2.09	0.52
45:IH:49:VAL:HG21	45:IH:241:ARG:CG	2.35	0.52
45:IJ:42:LEU:HD13	45:IJ:45:GLU:OE1	2.09	0.52
44:IK:172:TYR:CE2	44:IK:203:MET:HE2	2.45	0.52
44:IK:322:ASP:OD1	44:IK:373:ARG:NH1	2.42	0.52
45:IL:62:ARG:O	45:IL:62:ARG:HG3	2.09	0.52
45:IL:370:ASN:OD1	45:IL:422:TYR:OH	2.27	0.52
44:IM:240:ALA:HA	44:IM:243:ARG:CZ	2.40	0.52
45:IN:77:ARG:HG3	45:IN:82:GLY:O	2.10	0.52
45:IN:86:ARG:NE	45:IN:87:PRO:HD2	2.24	0.52
44:JA:133:GLN:HA	44:JA:133:GLN:OE1	2.09	0.52
44:JA:320:ARG:HB2	44:JA:358:GLN:O	2.10	0.52
45:JB:141:GLY:HA3	48:JB:501:GDP:PB	2.50	0.52
45:JB:375:GLN:HB2	45:JB:379:LYS:HZ1	1.74	0.52
45:JD:213:ARG:NH1	45:JD:214:THR:HG1	2.07	0.52
44:JE:296:PHE:CE2	44:JE:335:ILE:HG21	2.41	0.52
45:JF:229:VAL:O	45:JF:233:MET:HG3	2.10	0.52
45:JH:28:HIS:HE1	45:JH:47:ILE:HA	1.73	0.52
44:JI:172:TYR:HB3	44:JI:173:PRO:HD2	1.91	0.52
44:JK:68:LEU:HD23	44:JK:93:ILE:HB	1.92	0.52
44:JK:88:HIS:H	44:JK:91:GLN:NE2	2.08	0.52
44:JK:107:HIS:O	44:JK:107:HIS:ND1	2.42	0.52
44:JK:319:TYR:HB3	44:JK:323:VAL:HG21	1.90	0.52
45:JL:60:VAL:HG11	45:JL:86:ARG:NH2	2.25	0.52
44:KA:413:MET:HE1	44:KA:417:GLU:HG3	1.92	0.52
45:KB:46:ARG:CZ	45:KB:46:ARG:HB2	2.39	0.52
45:KB:374:ILE:HG12	45:KB:377:MET:CE	2.40	0.52
44:KE:332:ILE:HD12	44:KE:351:PHE:HD2	1.74	0.52
44:KE:383:ALA:O	44:KE:386:GLU:HG2	2.09	0.52
44:KG:117:LEU:O	44:KG:121:ARG:HG2	2.10	0.52
44:KI:98:ASP:OD1	44:KI:99:ALA:N	2.43	0.52
45:KJ:193:VAL:CG1	45:KJ:414:ASN:HD21	2.23	0.52
44:KM:68:LEU:HD21	44:KM:118:CYS:CB	2.39	0.52
44:KM:345:ASP:HB2	44:KM:438:GLU:HG2	1.91	0.52
45:KN:19:LYS:O	45:KN:23:VAL:N	2.41	0.52
45:KN:272:PRO:HG3	45:KN:289:LEU:HD21	1.89	0.52
44:LA:135:PHE:O	44:LA:136:LEU:HD23	2.09	0.52
44:LA:271:SER:O	44:LA:377:MET:HB3	2.10	0.52
45:LD:77:ARG:NH1	45:LD:83:GLN:HA	2.24	0.52
44:LG:206:ASN:O	44:LG:209:ILE:HG12	2.10	0.52
45:LJ:61:PRO:CD	45:LJ:84:LEU:HB3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:7:ILE:HD13	45:LL:64:ILE:HD11	1.92	0.52
45:LL:99:ASN:HA	45:LL:142:GLY:N	2.24	0.52
45:LL:102:ALA:HB2	45:LL:403:MET:HE1	1.92	0.52
45:LL:206:ALA:O	45:LL:209:ASP:N	2.43	0.52
44:LM:139:ASN:OD1	44:LM:170:THR:HG22	2.10	0.52
44:LM:161:TYR:O	44:LM:164:LYS:HG2	2.10	0.52
45:LN:304:ASP:OD1	45:LN:305:PRO:HD2	2.10	0.52
45:LN:318:ARG:HD2	45:LN:358:PRO:CD	2.40	0.52
45:LN:382:ALA:HB2	45:LN:415:MET:HE3	1.91	0.52
44:MA:265:ILE:HG23	44:MA:432:TYR:CZ	2.45	0.52
44:MC:161:TYR:CB	44:MC:164:LYS:HZ1	2.23	0.52
44:MC:273:ALA:HB2	44:MC:300:ASN:ND2	2.25	0.52
44:ME:260:VAL:O	44:ME:260:VAL:HG23	2.10	0.52
45:MF:207:LEU:CD2	45:MF:225:LEU:HB3	2.40	0.52
45:MF:345:ILE:O	45:MF:345:ILE:HG23	2.09	0.52
44:MI:268:MET:CG	44:MI:378:ILE:HG22	2.40	0.52
44:MK:154:LEU:HD13	44:MK:194:LEU:HD13	1.92	0.52
45:ML:7:ILE:HG13	45:ML:135:ILE:HG13	1.91	0.52
45:ML:28:HIS:C	45:ML:43:GLN:HE21	2.13	0.52
45:MN:317:PHE:HB2	45:MN:352:SER:O	2.09	0.52
44:NA:99:ALA:CB	44:NA:145:THR:HG23	2.40	0.52
44:NA:223:THR:HG22	44:NA:224:TYR:H	1.73	0.52
45:NB:138:SER:C	45:NB:139:LEU:HD23	2.30	0.52
45:NB:201:VAL:HG22	45:NB:266:PHE:O	2.09	0.52
44:NE:13:GLY:CA	44:NE:16:VAL:HG22	2.37	0.52
44:NE:103:PHE:HD1	44:NE:413:MET:CE	2.23	0.52
44:NE:343:PHE:HZ	44:NE:351:PHE:HE1	1.56	0.52
44:NI:67:PHE:C	44:NI:68:LEU:HD12	2.30	0.52
45:NJ:193:VAL:HG23	45:NJ:264:HIS:CE1	2.44	0.52
45:NJ:221:THR:HG22	45:NJ:222:TYR:N	2.25	0.52
44:NK:288:VAL:HA	44:NK:291:ILE:CG1	2.26	0.52
44:NM:188:ILE:HG13	44:NM:395:PHE:CD1	2.45	0.52
45:OB:186:THR:HA	45:OB:415:MET:HE3	1.91	0.52
44:OE:291:ILE:HG13	44:OE:292:THR:H	1.74	0.52
45:OF:322:SER:O	45:OF:325:GLU:HG2	2.09	0.52
45:OF:407:GLU:HA	45:OF:410:GLU:CG	2.40	0.52
44:OG:60:LYS:HD3	44:PG:283:HIS:CE1	2.45	0.52
44:OG:135:PHE:HB2	44:OG:166:LYS:HG3	1.92	0.52
45:OH:69:GLU:HG3	45:OH:72:THR:HG22	1.92	0.52
45:OH:181:GLU:N	45:OH:182:PRO:HD2	2.25	0.52
45:OJ:31:ASP:HB3	45:OJ:32:PRO:CD	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:64:ILE:HG21	45:OJ:119:VAL:HG21	1.92	0.52
45:OL:314:SER:OG	45:OL:368:VAL:HB	2.10	0.52
44:OM:311:LYS:O	44:OM:381:SER:HB2	2.09	0.52
44:OM:385:ALA:HA	44:OM:388:PHE:CD2	2.45	0.52
44:OM:406:HIS:NE2	45:ON:259:PRO:O	2.41	0.52
44:PC:223:THR:HA	45:PD:322:SER:HB2	1.90	0.52
44:PC:230:LEU:HD11	44:PC:275:ILE:HD13	1.92	0.52
44:PC:387:VAL:HG12	44:PC:390:ARG:HH11	1.75	0.52
44:PE:11:GLN:HB3	46:PE:501:GTP:PA	2.50	0.52
44:PE:183:GLU:HG2	44:PE:184:PRO:CD	2.40	0.52
45:PF:229:VAL:HG22	45:PF:233:MET:CG	2.39	0.52
45:PF:268:ILE:HG22	45:PF:368:VAL:CB	2.40	0.52
45:PH:323:THR:CA	45:PH:326:VAL:HB	2.39	0.52
44:PI:362:VAL:HG21	44:PI:368:LEU:O	2.10	0.52
45:PJ:86:ARG:HE	45:PJ:87:PRO:CD	2.23	0.52
45:PJ:166:THR:O	45:PJ:199:CYS:HA	2.09	0.52
45:PJ:207:LEU:CD1	45:PJ:225:LEU:HD22	2.40	0.52
44:QA:30:ILE:HG12	44:QA:36:MET:CE	2.39	0.52
44:QA:66:VAL:HG22	44:QA:68:LEU:HD11	1.91	0.52
44:QA:102:ASN:HB3	44:QA:105:ARG:HB2	1.92	0.52
44:QA:174:SER:OG	44:QA:207:GLU:HB2	2.09	0.52
45:QB:252:LYS:HA	45:QB:255:VAL:HB	1.92	0.52
44:QC:298:PRO:HB3	44:QC:307:PRO:HD2	1.92	0.52
45:QD:399:THR:HA	45:QD:403:MET:O	2.10	0.52
45:QF:178:THR:N	45:QF:181:GLU:OE2	2.37	0.52
45:QH:267:MET:HE2	45:QH:374:ILE:HG22	1.91	0.52
44:QI:362:VAL:HG23	44:QI:368:LEU:O	2.10	0.52
45:QJ:172:SER:OG	45:QJ:175:VAL:HG22	2.09	0.52
44:QK:324:VAL:HG12	44:QK:326:LYS:HG3	1.90	0.52
45:QL:116:VAL:HG11	45:QL:151:LEU:HD11	1.91	0.52
44:QM:99:ALA:HB3	44:QM:145:THR:HG23	1.91	0.52
45:QN:50:TYR:C	45:QN:62:ARG:HG2	2.30	0.52
45:RB:65:LEU:HD22	45:RB:90:PHE:HE1	1.74	0.52
45:RB:73:MET:O	45:RB:76:VAL:HG12	2.09	0.52
44:RC:141:VAL:HG13	44:RC:187:SER:OG	2.09	0.52
44:RC:295:ALA:HB2	44:RC:375:VAL:HG22	1.90	0.52
45:RD:133:PHE:HD2	45:RD:155:VAL:HG11	1.74	0.52
45:RD:188:SER:O	45:RD:192:LEU:N	2.37	0.52
44:RE:264:ARG:HG3	44:RE:431:ASP:OD2	2.10	0.52
44:RG:137:VAL:HG12	44:RG:167:LEU:O	2.09	0.52
45:RH:228:LEU:HD22	45:RH:273:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:242:PHE:HD2	45:RH:356:ILE:HB	1.74	0.52
45:RH:252:LYS:HG3	44:RI:101:ASN:OD1	2.10	0.52
45:RH:259:PRO:HB2	45:RH:260:PHE:HD2	1.75	0.52
44:RI:217:LEU:HD22	44:RI:367:ASP:HB3	1.91	0.52
44:RK:4:VAL:HG12	44:RK:51:THR:O	2.10	0.52
44:RK:55:GLU:HG3	44:RK:57:GLY:H	1.74	0.52
45:RL:210:ILE:CD1	45:RL:214:THR:HG21	2.39	0.52
44:RM:168:GLY:O	44:RM:201:ALA:HA	2.10	0.52
44:SA:14:ILE:HG21	44:SA:75:ILE:CD1	2.39	0.52
44:SA:288:VAL:CA	44:SA:291:ILE:HG12	2.37	0.52
45:SB:272:PRO:HB3	45:SB:292:GLN:NE2	2.19	0.52
45:SB:307:HIS:C	45:SB:377:MET:HA	2.30	0.52
45:SB:325:GLU:CA	45:SB:328:GLU:HG2	2.39	0.52
44:SC:71:GLU:HA	44:SC:98:ASP:O	2.10	0.52
44:SE:214:ARG:NH2	44:SE:221:ARG:HH22	2.08	0.52
44:SE:413:MET:SD	44:SE:417:GLU:HB2	2.49	0.52
45:SF:103:LYS:N	45:SF:401:GLU:OE1	2.43	0.52
44:SG:93:ILE:HG12	44:SG:117:LEU:HB3	1.92	0.52
45:SH:267:MET:CE	45:SH:305:PRO:HB3	2.40	0.52
44:SI:437:ILE:HG13	44:SI:437:ILE:O	2.10	0.52
44:SK:288:VAL:HG11	44:SK:323:VAL:CG1	2.40	0.52
45:SL:260:PHE:HB2	45:SL:263:LEU:HD13	1.92	0.52
44:SM:121:ARG:O	44:SM:125:LEU:HG	2.10	0.52
45:SN:24:ILE:HG22	45:SN:28:HIS:CD2	2.44	0.52
45:SN:275:SER:O	45:SN:279:GLN:HB2	2.09	0.52
44:TA:53:PHE:HB3	44:TA:61:HIS:HB3	1.91	0.52
44:TA:320:ARG:CZ	44:TA:374:ALA:HB3	2.40	0.52
45:TB:324:LYS:HD2	44:TC:210:TYR:HB3	1.91	0.52
44:TC:11:GLN:HB3	46:TC:501:GTP:PB	2.50	0.52
44:TC:278:ALA:HB2	44:TC:369:ALA:HB2	1.92	0.52
44:TC:393:HIS:O	44:TC:397:LEU:HG	2.09	0.52
45:TD:105:HIS:CD2	45:TD:150:LEU:HD12	2.44	0.52
44:TE:98:ASP:OD1	44:TE:145:THR:HB	2.10	0.52
45:TF:350:LYS:HG2	45:TF:351:SER:N	2.24	0.52
44:TG:286:LEU:O	44:TG:373:ARG:NH2	2.43	0.52
45:TH:1:MET:CE	44:TI:96:LYS:HB3	2.40	0.52
44:TI:99:ALA:CB	44:TI:105:ARG:HB2	2.39	0.52
44:TI:230:LEU:HD12	44:TI:368:LEU:HD21	1.92	0.52
45:TJ:199:CYS:HB3	45:TJ:265:PHE:CD2	2.45	0.52
45:TJ:300:MET:HG3	45:TJ:300:MET:O	2.10	0.52
45:TJ:420:SER:C	45:TJ:423:GLN:HG3	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:313:MET:HB2	44:TM:380:ASN:HB3	1.92	0.52
44:TM:320:ARG:NH1	44:TM:360:PRO:HG3	2.25	0.52
45:TN:109:GLY:O	45:TN:113:ILE:HB	2.10	0.52
44:UA:294:SER:HA	44:UA:297:GLU:CG	2.37	0.52
44:UC:137:VAL:HG11	44:UC:154:LEU:HD21	1.92	0.52
44:UC:275:ILE:C	44:UC:276:ILE:HG13	2.29	0.52
44:UC:408:TYR:HB3	44:UC:413:MET:HE2	1.92	0.52
45:UD:286:VAL:O	45:UD:290:THR:N	2.35	0.52
44:UE:1:MET:C	44:UE:131:GLY:HA3	2.29	0.52
44:UE:1:MET:O	44:UE:131:GLY:HA3	2.09	0.52
44:UE:23:LEU:CD2	44:UE:233:GLN:HA	2.40	0.52
44:UE:171:ILE:HA	44:UE:204:LEU:HB2	1.92	0.52
44:UE:247:ALA:HB1	45:UF:222:TYR:HE2	1.75	0.52
44:UE:257:THR:HA	45:UF:397:TRP:HH2	1.68	0.52
44:UE:430:LYS:O	44:UE:434:GLU:N	2.34	0.52
45:UF:258:ILE:HG23	45:UF:263:LEU:O	2.08	0.52
45:UF:318:ARG:HB3	45:UF:357:PRO:HA	1.91	0.52
45:UF:350:LYS:HA	44:UG:179:THR:O	2.10	0.52
44:UG:242:LEU:HD11	44:UG:252:ILE:HD11	1.91	0.52
45:UH:323:THR:HB	45:UH:326:VAL:HG21	1.92	0.52
44:UI:9:VAL:CG1	44:UI:139:ASN:HB3	2.39	0.52
44:UI:233:GLN:O	44:UI:236:SER:HB3	2.10	0.52
44:UI:263:PRO:HD3	45:UJ:396:HIS:CD2	2.45	0.52
44:UI:290:GLU:O	44:UI:294:SER:N	2.42	0.52
44:UK:247:ALA:HB1	45:UL:222:TYR:CD2	2.45	0.52
44:UK:315:CYS:HB3	44:UK:350:GLY:O	2.09	0.52
45:UL:2:ARG:HH21	45:UL:240:LEU:HG	1.75	0.52
45:UL:176:SER:HB2	45:UL:181:GLU:OE1	2.09	0.52
44:UM:155:GLU:HG2	44:UM:197:HIS:CE1	2.45	0.52
44:UM:319:TYR:O	44:UM:355:ILE:HG23	2.10	0.52
44:VA:247:ALA:HB2	44:VA:357:TYR:CZ	2.43	0.52
45:VB:82:GLY:HA2	45:VB:85:PHE:CD2	2.45	0.52
45:VB:412:GLU:OE2	45:VB:416:ASN:ND2	2.39	0.52
44:VC:348:PRO:HD3	45:VF:388:MET:SD	2.50	0.52
45:VD:131:GLN:HE21	45:VD:250:LEU:HB2	1.74	0.52
45:VD:309:ARG:NH1	45:VD:339:SER:O	2.43	0.52
44:VE:4:VAL:HG12	44:VE:133:GLN:HB2	1.92	0.52
44:VE:75:ILE:HD12	44:VE:75:ILE:H	1.75	0.52
45:VF:100:ASN:OD1	45:VF:100:ASN:O	2.28	0.52
44:VG:137:VAL:HG12	44:VG:167:LEU:O	2.10	0.52
45:VH:130:LEU:HG	45:VH:162:ARG:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:238:CYS:SG	45:VH:239:CYS:N	2.83	0.52
44:VI:233:GLN:HA	44:VI:236:SER:HB3	1.92	0.52
45:VJ:60:VAL:O	45:VJ:60:VAL:HG23	2.10	0.52
44:VK:328:VAL:O	44:VK:332:ILE:HG12	2.10	0.52
45:VL:253:LEU:HD21	45:VL:316:LEU:HD11	1.91	0.52
44:VM:221:ARG:NH1	45:VN:322:SER:OG	2.43	0.52
45:VN:304:ASP:OD1	45:VN:306:ARG:HG2	2.10	0.52
44:WA:101:ASN:HA	44:WA:144:GLY:HA2	1.90	0.52
44:WA:182:VAL:HG22	44:WA:185:TYR:HB2	1.90	0.52
44:WA:291:ILE:HG13	44:WA:292:THR:N	2.25	0.52
45:WB:287:PRO:HA	45:WB:290:THR:HG22	1.90	0.52
45:WB:308:GLY:HA2	45:WB:426:GLN:HE22	1.75	0.52
45:WD:150:LEU:CD2	45:WD:154:LYS:HG3	2.38	0.52
45:WD:318:ARG:HB3	45:WD:358:PRO:HD3	1.92	0.52
44:WE:348:PRO:HG2	45:WH:384:GLN:HE22	1.75	0.52
44:WG:71:GLU:OE2	44:WG:73:THR:OG1	2.25	0.52
44:WG:85:GLN:C	44:WG:86:LEU:HD22	2.30	0.52
44:WG:141:VAL:HG21	44:WG:190:SER:OG	2.10	0.52
45:WH:163:ILE:HG13	45:WH:251:ARG:HD3	1.90	0.52
45:WH:285:THR:O	45:WH:287:PRO:HD2	2.09	0.52
45:WH:372:THR:HA	45:WH:422:TYR:CE2	2.44	0.52
45:WJ:101:TRP:HA	45:WJ:104:GLY:O	2.09	0.52
45:WJ:256:ASN:C	45:WJ:257:LEU:HD12	2.30	0.52
45:WJ:296:ALA:CA	45:WJ:305:PRO:HG2	2.40	0.52
45:WJ:325:GLU:HA	45:WJ:328:GLU:CG	2.33	0.52
44:WK:317:MET:HG2	44:WK:376:CYS:C	2.29	0.52
44:WM:237:SER:HA	44:WM:320:ARG:NH1	2.25	0.52
44:WM:256:GLN:CA	44:WM:260:VAL:HB	2.40	0.52
45:WN:249:ASP:O	45:WN:253:LEU:HD13	2.08	0.52
3:0B:201:ALA:HB2	44:KI:282:TYR:CD1	2.45	0.52
5:0D:190:THR:HG23	44:FA:219:ILE:HD11	1.91	0.52
4:1C:122:ARG:HB2	44:DM:229:ARG:HH21	1.75	0.52
6:1E:61:LYS:HD2	45:DF:37:HIS:O	2.09	0.52
9:1H:139:ARG:HG2	44:HI:370:LYS:HE3	1.91	0.52
26:1R:112:GLU:OE2	45:BF:279:GLN:HG3	2.09	0.52
27:1W:131:TRP:HE3	44:LC:372:MET:HE1	1.75	0.52
2:2A:128:HIS:NE2	45:AJ:359:LYS:HA	2.25	0.52
5:2D:75:ASP:OD2	45:EJ:361:LEU:HA	2.09	0.52
5:2D:192:ALA:HB3	44:FI:279:GLU:HG3	1.92	0.52
29:2F:38:TYR:CD2	44:GC:77:GLU:HG3	2.45	0.52
10:2N:8:ARG:NH1	45:IB:52:ASN:HB3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2O:156:ARG:HD3	44:VK:279:GLU:HG2	1.92	0.52
26:2R:233:LYS:HG3	45:BJ:74:ASP:OD2	2.10	0.52
14:2U:402:ASP:OD2	44:WI:365:GLY:HA3	2.09	0.52
24:3O:369:LEU:HD11	44:UI:372:MET:HG3	1.90	0.52
11:3Q:37:ILE:HD11	36:5S:208:GLN:CG	2.38	0.52
13:3T:82:ALA:HB1	44:MK:414:GLU:OE2	2.10	0.52
34:4F:205:ASN:OD1	44:IM:280:LYS:HE2	2.09	0.52
35:4R:94:ARG:NH1	44:AE:41:THR:HG21	2.24	0.52
35:4R:471:LEU:HD23	45:EF:78:ALA:O	2.09	0.52
38:5E:126:LEU:HD12	44:NA:57:GLY:HA3	1.91	0.52
39:5K:69:LYS:CD	45:JN:421:GLU:HG2	2.36	0.52
11:5Q:15:TYR:CD1	11:5Q:164:ARG:NH1	2.78	0.52
35:5R:87:LYS:HE3	35:5R:88:TYR:CZ	2.45	0.52
35:5R:95:PHE:HB3	35:5R:180:ILE:HG23	1.92	0.52
35:5R:500:VAL:O	35:5R:500:VAL:HG12	2.10	0.52
36:5S:147:LYS:HD2	36:5S:147:LYS:O	2.10	0.52
36:5S:214:LEU:O	36:5S:218:ILE:HG23	2.10	0.52
41:6G:228:GLY:N	44:VC:340:THR:HG21	2.12	0.52
11:6Q:46:VAL:HG11	11:6Q:129:TRP:HH2	1.75	0.52
35:6R:296:GLY:HA3	45:DN:276:ARG:CB	2.35	0.52
35:6R:408:ALA:HA	45:EN:218:THR:OG1	2.10	0.52
35:6R:413:ILE:HG22	35:6R:417:TYR:HD2	1.67	0.52
35:7R:11:LEU:C	35:7R:12:LEU:HD23	2.30	0.52
35:7R:33:LEU:HD21	35:7R:36:ASN:H	1.74	0.52
35:7R:143:VAL:HG21	35:7R:146:LYS:NZ	2.25	0.52
42:8L:190:UNK:HA	44:SG:370:LYS:NZ	2.25	0.52
44:AA:132:LEU:HD21	44:AA:135:PHE:HE1	1.71	0.52
45:AD:65:LEU:HD21	45:AD:85:PHE:CE2	2.45	0.52
45:AF:257:LEU:O	45:AF:259:PRO:HD3	2.10	0.52
45:AH:183:TYR:O	45:AH:186:THR:HG22	2.10	0.52
44:AI:240:ALA:CB	44:AI:356:ASN:HD22	2.17	0.52
45:AJ:193:VAL:HA	45:AJ:264:HIS:CE1	2.44	0.52
44:AK:171:ILE:HG23	44:AK:204:LEU:O	2.10	0.52
45:AL:73:MET:CA	45:AL:76:VAL:HG12	2.37	0.52
44:AM:8:HIS:HD2	44:AM:138:PHE:HB2	1.75	0.52
45:AN:130:LEU:HD21	45:AN:133:PHE:HE1	1.70	0.52
45:AN:237:THR:O	45:AN:240:LEU:N	2.34	0.52
45:BB:139:LEU:HD13	45:BB:168:SER:HB3	1.90	0.52
45:BB:406:MET:O	45:BB:410:GLU:HG3	2.10	0.52
44:BC:5:ILE:CG2	44:BC:7:ILE:HD11	2.40	0.52
44:BC:171:ILE:HG12	44:BC:204:LEU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:213:ARG:NH2	45:BD:297:LYS:HE3	2.23	0.52
45:BD:248:SER:OG	45:BD:253:LEU:HD12	2.10	0.52
44:BE:167:LEU:CD2	44:BE:200:VAL:HB	2.38	0.52
44:BE:188:ILE:HG23	44:BE:425:LEU:HD12	1.91	0.52
45:BF:309:ARG:HA	45:BF:340:TYR:O	2.10	0.52
44:BG:179:THR:CG2	45:BH:351:SER:HB2	2.24	0.52
45:BH:180:VAL:HG22	45:BH:180:VAL:O	2.10	0.52
44:BI:288:VAL:HA	44:BI:291:ILE:CG1	2.38	0.52
44:BK:91:GLN:HE21	44:BK:125:LEU:HD21	1.75	0.52
44:BK:287:SER:O	44:BK:290:GLU:HG2	2.09	0.52
45:BL:282:ARG:HG2	45:BL:282:ARG:NH1	2.25	0.52
44:BM:254:GLU:O	44:BM:258:ASN:ND2	2.37	0.52
45:BN:286:VAL:HB	45:BN:325:GLU:CD	2.31	0.52
44:CA:372:MET:O	44:CA:373:ARG:HG3	2.10	0.52
45:CB:69:GLU:CD	45:CB:71:GLY:H	2.13	0.52
45:CB:246:LEU:HD13	45:CB:353:ILE:HD13	1.90	0.52
44:CC:328:VAL:O	44:CC:332:ILE:HG12	2.10	0.52
45:CD:103:LYS:HG3	45:CD:401:GLU:OE1	2.10	0.52
45:CD:252:LYS:HD2	45:CD:253:LEU:N	2.24	0.52
44:CE:34:GLY:O	44:CE:60:LYS:HA	2.10	0.52
44:CG:217:LEU:O	44:CG:277:SER:OG	2.21	0.52
44:CI:89:PRO:CG	44:DI:280:LYS:HD2	2.39	0.52
44:CI:132:LEU:O	44:CI:132:LEU:HG	2.09	0.52
44:CI:237:SER:HA	44:CI:320:ARG:NH1	2.24	0.52
45:CL:99:ASN:HA	45:CL:142:GLY:CA	2.40	0.52
45:CL:251:ARG:NH2	44:CM:105:ARG:HD2	2.24	0.52
45:CL:324:LYS:HD3	44:CM:222:PRO:HG3	1.92	0.52
44:CM:258:ASN:HD22	44:CM:352:LYS:HB2	1.74	0.52
45:CN:130:LEU:O	45:CN:162:ARG:HD2	2.10	0.52
44:DA:118:CYS:O	44:DA:122:ILE:HG12	2.10	0.52
45:DB:244:GLY:HA2	45:DB:355:ASP:OD2	2.09	0.52
44:DC:67:PHE:C	44:DC:68:LEU:HD12	2.30	0.52
45:DF:285:THR:HA	45:DF:363:MET:HE1	1.91	0.52
44:DG:385:ALA:HB2	44:DG:432:TYR:HD2	1.75	0.52
45:DH:4:ILE:HG13	45:DH:50:TYR:HE1	1.75	0.52
44:DI:165:SER:O	44:DI:166:LYS:HG3	2.10	0.52
44:DI:202:VAL:HG22	44:DI:268:MET:SD	2.50	0.52
44:DI:352:LYS:HA	45:DJ:177:ASP:O	2.09	0.52
45:DL:375:GLN:HA	45:DL:379:LYS:HD2	1.92	0.52
44:DM:23:LEU:HD23	44:DM:236:SER:HB2	1.92	0.52
44:DM:208:ALA:HB2	44:DM:304:LYS:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:94:GLN:HA	45:DN:94:GLN:OE1	2.09	0.52
45:DN:136:THR:HA	45:DN:167:PHE:HB2	1.92	0.52
45:EB:238:CYS:HB2	45:EB:318:ARG:NH2	2.24	0.52
45:EB:332:ASN:OD1	45:EB:336:LYS:NZ	2.22	0.52
44:EC:103:PHE:CE1	44:EC:148:GLY:HA2	2.45	0.52
44:EC:298:PRO:HB3	44:EC:307:PRO:CD	2.39	0.52
44:EC:311:LYS:HE2	44:EC:311:LYS:HA	1.91	0.52
44:EC:320:ARG:CB	44:EC:356:ASN:HB3	2.40	0.52
44:EE:7:ILE:CG2	44:EE:137:VAL:HG23	2.40	0.52
44:EE:292:THR:HG21	44:EE:331:SER:HB3	1.92	0.52
44:EE:427:ALA:HA	44:EE:430:LYS:HB3	1.92	0.52
44:EG:3:GLU:OE2	44:EG:130:THR:N	2.36	0.52
44:EG:237:SER:HA	44:EG:320:ARG:HH11	1.74	0.52
44:EG:298:PRO:CB	44:EG:308:ARG:HH11	2.23	0.52
44:EI:5:ILE:HG22	44:EI:6:SER:N	2.25	0.52
44:EI:329:ASN:HD21	45:EJ:175:VAL:HG12	1.73	0.52
45:EJ:24:ILE:O	45:EJ:27:GLU:HG2	2.10	0.52
45:EL:86:ARG:HE	45:EL:88:ASP:H	1.58	0.52
45:EN:70:PRO:HD3	45:EN:93:GLY:O	2.10	0.52
44:FA:20:CYS:HB2	44:FA:24:PHE:CZ	2.45	0.52
45:FB:274:THR:HG21	45:FB:279:GLN:HA	1.90	0.52
45:FB:305:PRO:HB3	45:FB:310:TYR:OH	2.10	0.52
44:FC:35:GLN:HE22	44:FC:60:LYS:HB3	1.75	0.52
44:FC:311:LYS:O	44:FC:382:THR:HG23	2.11	0.52
44:FE:27:GLU:OE2	44:FE:358:GLN:NE2	2.43	0.52
44:FG:93:ILE:HG22	44:FG:114:ILE:HD11	1.92	0.52
44:FG:319:TYR:CD2	44:FG:328:VAL:HG22	2.45	0.52
45:FH:113:ILE:HA	45:FH:116:VAL:CG1	2.40	0.52
45:FH:219:THR:O	45:FH:219:THR:HG23	2.11	0.52
45:FJ:87:PRO:HD2	45:GJ:281:TYR:HD2	1.74	0.52
45:FJ:252:LYS:HG2	45:FJ:350:LYS:HE2	1.92	0.52
45:FL:310:TYR:CD1	45:FL:371:SER:HB2	2.45	0.52
45:FL:334:GLN:OE1	45:FL:347:ASN:HA	2.10	0.52
45:GB:237:THR:HG23	45:GB:241:ARG:CZ	2.40	0.52
45:GB:319:GLY:HA2	45:GB:355:ASP:O	2.10	0.52
44:GC:62:VAL:O	44:GC:62:VAL:HG13	2.10	0.52
44:GC:107:HIS:O	44:GC:108:TYR:HD1	1.93	0.52
44:GC:181:VAL:HG22	45:GD:256:ASN:HD22	1.74	0.52
44:GC:189:LEU:HD21	44:GC:418:PHE:CD1	2.45	0.52
44:GC:257:THR:HG22	45:GF:397:TRP:CZ2	2.45	0.52
45:GD:312:THR:HG22	45:GD:370:ASN:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:54:SER:CB	44:GE:64:ARG:HH21	2.19	0.52
45:GF:4:ILE:HD11	45:GF:50:TYR:OH	2.10	0.52
45:GF:221:THR:HG22	45:GF:222:TYR:N	2.25	0.52
45:GF:299:MET:CE	45:GF:305:PRO:HG3	2.40	0.52
45:GH:290:THR:CG2	45:GH:329:GLN:HE21	2.23	0.52
44:GI:189:LEU:HD13	44:GI:421:ALA:HB2	1.92	0.52
44:GI:417:GLU:O	44:GI:420:GLU:HG2	2.10	0.52
44:GK:157:LEU:CB	44:GK:166:LYS:HE2	2.40	0.52
44:GK:311:LYS:O	44:GK:381:SER:OG	2.22	0.52
45:GL:103:LYS:HA	45:GL:107:THR:OG1	2.09	0.52
44:GM:202:VAL:HG12	44:GM:302:MET:CE	2.38	0.52
45:GN:60:VAL:HG13	45:GN:60:VAL:O	2.10	0.52
45:GN:287:PRO:HG3	45:GN:329:GLN:NE2	2.24	0.52
44:HA:1:MET:HE3	45:HD:94:GLN:HG3	1.92	0.52
44:HA:203:MET:HB2	44:HA:269:LEU:HA	1.90	0.52
44:HA:254:GLU:OE1	45:HD:99:ASN:ND2	2.43	0.52
45:HB:278:SER:HA	45:HB:281:TYR:CD1	2.45	0.52
44:HC:275:ILE:HG23	44:HC:368:LEU:CD1	2.36	0.52
45:HD:272:PRO:HG2	45:HD:361:LEU:HD13	1.91	0.52
44:HE:210:TYR:CD1	45:HF:324:LYS:HD2	2.45	0.52
44:HG:1:MET:HE1	45:HJ:94:GLN:HG3	1.92	0.52
44:HG:10:GLY:O	44:HG:14:ILE:HG13	2.09	0.52
44:HG:145:THR:HG23	44:HG:146:GLY:N	2.25	0.52
44:HI:183:GLU:N	44:HI:184:PRO:HD2	2.23	0.52
44:HI:200:VAL:HG13	44:HI:268:MET:SD	2.49	0.52
45:HJ:102:ALA:HB3	45:HJ:401:GLU:OE1	2.10	0.52
44:HK:139:ASN:OD1	44:HK:170:THR:HG22	2.10	0.52
44:HK:183:GLU:N	44:HK:184:PRO:HD2	2.25	0.52
44:HM:31:GLN:HB3	44:HM:32:PRO:CD	2.39	0.52
44:HM:210:TYR:CZ	45:HN:324:LYS:HB2	2.45	0.52
44:HM:239:THR:HB	44:HM:243:ARG:CZ	2.40	0.52
44:HM:349:THR:O	44:HM:349:THR:HG23	2.10	0.52
45:HN:215:LEU:O	45:HN:216:LYS:HG2	2.10	0.52
45:HN:384:GLN:O	45:HN:387:ALA:CA	2.58	0.52
44:IA:54:SER:HB3	44:IA:64:ARG:NE	2.22	0.52
44:IA:331:SER:O	44:IA:335:ILE:HG12	2.10	0.52
45:IB:171:PRO:CG	45:IB:181:GLU:HB3	2.40	0.52
44:IC:223:THR:CB	45:ID:322:SER:HB2	2.31	0.52
45:ID:65:LEU:HD22	45:ID:90:PHE:HE2	1.75	0.52
45:ID:325:GLU:CA	45:ID:328:GLU:HG2	2.34	0.52
44:IE:224:TYR:CE1	45:IF:323:THR:HG21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:279:GLU:CD	44:IE:280:LYS:H	2.13	0.52
44:IE:305:CYS:SG	44:IE:383:ALA:HB1	2.50	0.52
45:IH:139:LEU:HD23	45:IH:189:VAL:HG23	1.92	0.52
44:II:68:LEU:CD2	44:II:118:CYS:HB2	2.35	0.52
45:IJ:40:SER:O	45:IJ:43:GLN:HB2	2.10	0.52
45:IJ:144:GLY:O	45:IJ:148:GLY:N	2.43	0.52
45:IJ:352:SER:O	45:IJ:353:ILE:HD13	2.09	0.52
45:IL:143:THR:HG22	48:IL:501:GDP:PB	2.50	0.52
45:IL:325:GLU:HA	45:IL:328:GLU:CG	2.38	0.52
44:IM:188:ILE:HG23	44:IM:425:LEU:CD2	2.30	0.52
44:IM:387:VAL:HA	44:IM:390:ARG:HG2	1.90	0.52
44:JA:393:HIS:CE1	44:JA:397:LEU:HD11	2.44	0.52
45:JB:101:TRP:CE3	45:JB:187:LEU:HD13	2.45	0.52
45:JB:379:LYS:HD2	45:JB:419:VAL:HG11	1.91	0.52
44:JC:269:LEU:HD11	44:JC:301:MET:HE1	1.92	0.52
45:JF:198:GLU:OE2	45:JF:254:ALA:HB2	2.10	0.52
45:JF:202:ILE:HG21	45:JF:229:VAL:CG2	2.40	0.52
45:JF:257:LEU:O	45:JF:312:THR:HG21	2.10	0.52
45:JH:65:LEU:HD11	45:JH:85:PHE:CD2	2.44	0.52
44:JI:311:LYS:CD	44:JI:342:GLN:HG3	2.38	0.52
44:JK:13:GLY:HA2	44:JK:16:VAL:HG12	1.91	0.52
44:JK:211:ASP:HB3	44:JK:215:ARG:HH21	1.74	0.52
44:JK:212:ILE:HD11	44:JK:300:ASN:HA	1.91	0.52
45:KB:211:CYS:HA	45:KB:215:LEU:CD1	2.40	0.52
44:KE:93:ILE:HG22	44:KE:94:SER:N	2.25	0.52
45:KF:19:LYS:O	45:KF:22:GLU:HB3	2.09	0.52
45:KF:108:GLU:O	45:KF:111:GLU:HG2	2.10	0.52
45:KF:222:TYR:HB3	48:KF:502:GDP:O6	2.09	0.52
45:KF:377:MET:HE2	45:KF:378:PHE:CE1	2.45	0.52
44:KG:201:ALA:HB3	44:KG:267:PHE:HD1	1.74	0.52
45:KH:199:CYS:HB2	45:KH:265:PHE:HD1	1.74	0.52
45:KH:272:PRO:HA	45:KH:292:GLN:NE2	2.25	0.52
45:KJ:343:GLU:OE2	45:KJ:430:ALA:N	2.42	0.52
44:KK:56:THR:O	44:LK:285:GLN:CB	2.58	0.52
44:KM:14:ILE:HD13	44:KM:75:ILE:HD11	1.91	0.52
44:KM:56:THR:O	44:LM:285:GLN:NE2	2.43	0.52
44:KM:363:VAL:HG23	44:KM:364:PRO:HD2	1.92	0.52
45:KN:173:PRO:HD3	45:KN:381:VAL:HG13	1.90	0.52
44:LA:88:HIS:HB3	44:LA:91:GLN:HG2	1.91	0.52
44:LA:398:MET:CE	45:LB:346:PRO:HD2	2.40	0.52
45:LB:49:VAL:HG12	45:LB:50:TYR:HD2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:210:ILE:HD11	45:LB:300:MET:HG2	1.92	0.52
45:LB:259:PRO:HG3	45:LB:312:THR:CG2	2.40	0.52
45:LB:352:SER:O	45:LB:353:ILE:HD13	2.10	0.52
44:LC:417:GLU:HA	44:LC:420:GLU:CG	2.40	0.52
45:LF:167:PHE:CE2	45:LF:233:MET:HG2	2.45	0.52
45:LF:199:CYS:HB2	45:LF:265:PHE:CD1	2.45	0.52
45:LF:242:PHE:CD2	45:LF:356:ILE:HB	2.45	0.52
44:LG:11:GLN:NE2	45:LH:245:GLN:O	2.43	0.52
44:LG:41:THR:O	44:LG:41:THR:HG22	2.09	0.52
44:LG:70:LEU:HD11	44:LG:149:LEU:HD21	1.92	0.52
44:LG:223:THR:HG23	44:LG:225:THR:H	1.75	0.52
44:LG:320:ARG:CD	44:LG:360:PRO:HG3	2.40	0.52
45:LH:139:LEU:HD22	45:LH:188:SER:HB2	1.91	0.52
45:LH:244:GLY:HA2	45:LH:355:ASP:OD2	2.10	0.52
44:LM:34:GLY:C	44:LM:60:LYS:HA	2.30	0.52
45:MB:232:ALA:O	45:MB:235:GLY:N	2.43	0.52
44:MC:183:GLU:HG2	44:MC:184:PRO:CD	2.40	0.52
44:MC:394:LYS:HG2	45:MD:346:PRO:HG3	1.92	0.52
44:ME:73:THR:HG22	45:MF:46:ARG:NH1	2.24	0.52
44:ME:178:SER:HB2	44:ME:183:GLU:OE2	2.10	0.52
44:MG:211:ASP:HB3	46:MG:501:GTP:O2'	2.05	0.52
44:MI:205:ASP:CG	44:MI:304:LYS:H	2.11	0.52
45:ML:7:ILE:HG13	45:ML:7:ILE:O	2.10	0.52
44:MM:141:VAL:HG11	44:MM:172:TYR:HE1	1.74	0.52
44:MM:284:GLU:CG	44:MM:286:LEU:HD22	2.36	0.52
44:NA:224:TYR:CZ	45:NB:323:THR:HG21	2.44	0.52
45:NB:194:GLU:HG2	45:NB:195:ASN:N	2.24	0.52
45:ND:208:TYR:HE1	45:ND:225:LEU:HD21	1.75	0.52
44:NE:54:SER:CB	44:NE:64:ARG:HH12	2.22	0.52
45:NF:210:ILE:CD1	45:NF:298:ASN:HD21	2.22	0.52
45:NJ:49:VAL:CG1	45:NJ:241:ARG:HG2	2.35	0.52
44:NK:177:VAL:HG22	44:NK:207:GLU:CG	2.40	0.52
44:NM:32:PRO:HB3	44:NM:83:TYR:CD1	2.45	0.52
44:NM:102:ASN:C	44:NM:144:GLY:HA3	2.30	0.52
44:NM:107:HIS:CD2	44:NM:151:SER:HB2	2.45	0.52
45:NN:54:ALA:HB3	45:NN:58:ARG:O	2.10	0.52
45:NN:245:GLN:C	45:NN:246:LEU:HD12	2.29	0.52
44:OA:133:GLN:OE1	44:OA:252:ILE:HG12	2.10	0.52
44:OA:289:ALA:O	44:OA:292:THR:HG22	2.09	0.52
44:OC:210:TYR:HD2	45:OD:324:LYS:HZ3	1.55	0.52
44:OC:259:LEU:HD21	44:OC:316:SER:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:151:LEU:O	45:OD:155:VAL:HG23	2.10	0.52
45:OD:282:ARG:HH21	45:OD:289:LEU:N	2.08	0.52
44:OE:216:ASN:ND2	44:OE:275:ILE:HB	2.16	0.52
44:OE:230:LEU:O	44:OE:234:VAL:N	2.39	0.52
44:OG:31:GLN:HB3	44:OG:32:PRO:HD2	1.91	0.52
45:OH:28:HIS:HA	45:OH:43:GLN:HG2	1.92	0.52
45:OH:47:ILE:O	45:OH:47:ILE:HG13	2.10	0.52
45:OH:50:TYR:O	45:OH:62:ARG:HG2	2.10	0.52
45:OH:173:PRO:HD3	45:OH:380:ARG:NE	2.24	0.52
44:OI:89:PRO:HG3	44:PI:280:LYS:NZ	2.25	0.52
45:OJ:240:LEU:O	45:OJ:240:LEU:HD23	2.09	0.52
45:OJ:309:ARG:HH21	45:OJ:342:VAL:HG23	1.75	0.52
44:OK:274:PRO:CD	44:OK:291:ILE:HD11	2.40	0.52
45:OL:207:LEU:CB	45:OL:225:LEU:HD23	2.38	0.52
45:ON:101:TRP:NE1	45:ON:146:GLY:HA2	2.25	0.52
45:ON:270:PHE:HD2	45:ON:273:LEU:HD11	1.75	0.52
44:PA:223:THR:CG2	44:PA:225:THR:HG23	2.40	0.52
45:PB:312:THR:HA	45:PB:348:ASN:HB2	1.92	0.52
45:PD:267:MET:HE3	45:PD:374:ILE:HG23	1.91	0.52
44:PE:200:VAL:CG2	44:PE:259:LEU:HD11	2.39	0.52
44:PE:284:GLU:HG3	44:PE:286:LEU:HD21	1.91	0.52
45:PF:3:GLU:O	45:PF:4:ILE:HD13	2.10	0.52
45:PF:263:LEU:HG	45:PF:422:TYR:CD1	2.45	0.52
44:PG:119:LEU:HD11	44:PG:160:ASP:OD2	2.10	0.52
44:PG:320:ARG:CD	44:PG:360:PRO:HG3	2.36	0.52
45:PH:50:TYR:CE2	45:PH:237:THR:HG21	2.45	0.52
44:PI:199:ASP:HB3	44:PI:256:GLN:OE1	2.10	0.52
44:PI:395:PHE:CE1	44:PI:422:ARG:HD3	2.44	0.52
44:PK:105:ARG:HH22	44:PK:411:GLU:HG3	1.75	0.52
44:PK:137:VAL:O	44:PK:168:GLY:HA3	2.10	0.52
44:QA:5:ILE:HD12	44:QA:135:PHE:CE1	2.45	0.52
45:QB:104:GLY:O	45:QB:109:GLY:HA3	2.10	0.52
45:QB:163:ILE:HG23	45:QB:251:ARG:CZ	2.40	0.52
45:QD:16:ILE:HG13	45:QD:226:ASN:OD1	2.10	0.52
44:QE:12:GLY:CA	44:QE:15:GLN:HB2	2.28	0.52
44:QE:219:ILE:O	44:QE:222:PRO:HG3	2.10	0.52
44:QE:261:PRO:HB3	44:QE:346:TRP:HH2	1.75	0.52
45:QH:216:LYS:HB2	45:QH:275:SER:HB2	1.91	0.52
44:QI:121:ARG:HH21	44:QI:124:LYS:HE2	1.75	0.52
44:QK:151:SER:O	44:QK:155:GLU:HG3	2.10	0.52
45:QL:313:ALA:HB3	45:QL:349:ILE:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:114:ILE:O	44:QM:118:CYS:N	2.41	0.52
44:QM:137:VAL:HG11	44:QM:154:LEU:CD2	2.30	0.52
45:RB:304:ASP:OD1	45:RB:306:ARG:HG2	2.10	0.52
44:RC:150:GLY:O	44:RC:154:LEU:HG	2.10	0.52
45:RD:64:ILE:HG13	45:RD:89:ASN:CG	2.30	0.52
44:RE:405:VAL:O	44:RE:409:VAL:HG23	2.09	0.52
45:RF:248:SER:OG	45:RF:252:LYS:HB3	2.09	0.52
44:RG:344:VAL:HG12	44:RG:347:CYS:HB2	1.91	0.52
45:RH:44:LEU:HD23	45:RH:47:ILE:HD12	1.91	0.52
45:RJ:286:VAL:HA	45:RJ:289:LEU:CG	2.40	0.52
45:SB:315:ALA:C	45:SB:316:LEU:HD12	2.30	0.52
45:SD:130:LEU:HD23	45:SD:162:ARG:CD	2.39	0.52
45:SD:372:THR:HA	45:SD:422:TYR:HE2	1.75	0.52
44:SE:182:VAL:HG22	44:SE:182:VAL:O	2.09	0.52
45:SF:267:MET:HB2	45:SF:301:CYS:SG	2.50	0.52
44:SG:288:VAL:HG21	44:SG:323:VAL:HG23	1.92	0.52
44:SG:322:ASP:N	44:SG:322:ASP:OD1	2.43	0.52
45:SH:19:LYS:O	45:SH:22:GLU:HB2	2.09	0.52
45:SH:174:LYS:CD	45:SH:175:VAL:HG13	2.30	0.52
45:SJ:248:SER:CB	45:SJ:252:LYS:HD2	2.40	0.52
44:SK:313:MET:HE1	44:SK:435:VAL:HG11	1.91	0.52
45:SL:161:ASP:O	45:SL:251:ARG:NH2	2.32	0.52
44:SM:223:THR:O	44:SM:226:ASN:OD1	2.26	0.52
45:TB:200:MET:HE1	45:TB:268:ILE:HD13	1.91	0.52
44:TC:25:CYS:HG	44:TC:53:PHE:HZ	1.57	0.52
45:TD:113:ILE:HG13	45:TD:151:LEU:HD11	1.92	0.52
45:TD:221:THR:HG23	45:TD:223:GLY:H	1.75	0.52
44:TE:83:TYR:HB3	44:TE:86:LEU:CB	2.37	0.52
44:TE:136:LEU:CD2	44:TE:167:LEU:HD22	2.40	0.52
45:TF:6:HIS:O	45:TF:63:ALA:HA	2.10	0.52
45:TF:151:LEU:CA	45:TF:154:LYS:HB2	2.31	0.52
45:TF:174:LYS:HD3	45:TF:175:VAL:HG13	1.91	0.52
45:TH:116:VAL:HG22	45:TH:120:VAL:HG13	1.91	0.52
45:TH:135:ILE:O	45:TH:166:THR:HA	2.10	0.52
45:TH:310:TYR:O	45:TH:342:VAL:HG12	2.10	0.52
44:TI:302:MET:O	44:TI:302:MET:HG2	2.09	0.52
45:TJ:42:LEU:HA	45:TJ:45:GLU:CD	2.29	0.52
45:TJ:66:MET:SD	45:TJ:116:VAL:HG21	2.50	0.52
45:TJ:114:ASP:OD1	45:TJ:115:SER:N	2.42	0.52
45:TJ:164:MET:SD	45:TJ:196:ALA:HA	2.51	0.52
45:TJ:207:LEU:HD13	45:TJ:225:LEU:CB	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:255:VAL:HG21	44:TK:100:ALA:O	2.10	0.52
44:TK:144:GLY:HA2	44:TK:147:SER:OG	2.10	0.52
44:TK:326:LYS:HE3	45:TL:220:PRO:C	2.30	0.52
44:TK:417:GLU:O	44:TK:420:GLU:HG2	2.09	0.52
45:TL:322:SER:HA	44:TM:223:THR:CB	2.32	0.52
44:TM:123:ARG:HG2	44:TM:127:ASP:OD2	2.10	0.52
44:TM:256:GLN:O	44:TM:260:VAL:HG12	2.10	0.52
45:TN:131:GLN:HG3	45:TN:250:LEU:HD12	1.91	0.52
45:TN:180:VAL:CG2	45:TN:183:TYR:HB2	2.40	0.52
44:UA:93:ILE:HD12	44:UA:93:ILE:H	1.75	0.52
44:UA:271:SER:HB2	44:UA:377:MET:CG	2.39	0.52
45:UD:186:THR:HG21	45:UD:385:PHE:CZ	2.46	0.52
45:UD:342:VAL:HG13	45:UD:345:ILE:HG22	1.92	0.52
44:UE:103:PHE:HB3	44:UE:408:TYR:CE2	2.44	0.52
45:UF:107:THR:HG23	45:UF:108:GLU:N	2.23	0.52
45:UF:282:ARG:NE	45:UF:282:ARG:CA	2.73	0.52
45:UF:311:LEU:HD23	45:UF:342:VAL:HG11	1.90	0.52
44:UG:118:CYS:SG	44:UG:122:ILE:HD11	2.50	0.52
44:UG:212:ILE:HG22	44:UG:275:ILE:HD12	1.91	0.52
44:UG:237:SER:HA	44:UG:320:ARG:NH1	2.24	0.52
44:UG:276:ILE:HD11	44:UG:281:ALA:HA	1.91	0.52
44:UG:348:PRO:HD2	45:UH:388:MET:HE2	1.91	0.52
45:UH:263:LEU:HD23	45:UH:422:TYR:CE1	2.45	0.52
45:UJ:248:SER:OG	45:UJ:252:LYS:HD2	2.10	0.52
44:UK:169:PHE:HB3	44:UK:204:LEU:CD1	2.39	0.52
44:UK:183:GLU:N	44:UK:183:GLU:OE1	2.36	0.52
44:UK:268:MET:HB3	44:UK:380:ASN:OD1	2.09	0.52
44:UK:296:PHE:CD2	44:UK:335:ILE:HD12	2.45	0.52
45:UL:113:ILE:HD12	45:UL:150:LEU:CB	2.37	0.52
45:UL:200:MET:CE	45:UL:268:ILE:HG23	2.40	0.52
45:UL:236:VAL:HG12	45:UL:250:LEU:CD2	2.40	0.52
44:UM:425:LEU:HA	44:UM:428:LEU:HB3	1.90	0.52
45:VB:42:LEU:CD2	45:VB:356:ILE:HD11	2.40	0.52
45:VB:341:PHE:HB3	45:VB:348:ASN:HD21	1.74	0.52
44:VC:191:THR:O	44:VC:195:LEU:HB2	2.09	0.52
44:VC:296:PHE:HB3	44:VC:341:ILE:HD11	1.92	0.52
45:VD:270:PHE:O	45:VD:273:LEU:HD23	2.10	0.52
44:VE:398:MET:HE2	45:VF:345:ILE:HG13	1.92	0.52
45:VF:263:LEU:HD11	45:VF:422:TYR:CZ	2.45	0.52
44:VG:97:GLU:CG	44:VG:105:ARG:HH12	2.23	0.52
44:VG:221:ARG:CD	45:VH:322:SER:HB3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:197:ASP:O	45:VJ:198:GLU:HG3	2.10	0.52
45:VJ:245:GLN:C	45:VJ:246:LEU:HD12	2.30	0.52
45:VJ:256:ASN:C	45:VJ:257:LEU:HD12	2.30	0.52
44:VK:191:THR:HA	44:VK:194:LEU:CD2	2.40	0.52
44:VK:386:GLU:O	44:VK:390:ARG:HG2	2.09	0.52
44:VM:174:SER:OG	44:VM:207:GLU:N	2.31	0.52
44:VM:325:PRO:O	44:VM:328:VAL:N	2.42	0.52
44:WA:21:TRP:CH2	44:WA:63:PRO:HB3	2.44	0.52
44:WA:276:ILE:HG23	44:WA:281:ALA:CB	2.40	0.52
44:WC:3:GLU:CG	44:WC:64:ARG:HH12	2.23	0.52
44:WC:87:PHE:HB3	44:WC:92:LEU:CD1	2.39	0.52
45:WD:3:GLU:O	45:WD:131:GLN:N	2.39	0.52
45:WD:163:ILE:HD13	45:WD:251:ARG:HG2	1.90	0.52
45:WD:198:GLU:HG2	45:WD:266:PHE:CE2	2.45	0.52
44:WE:289:ALA:O	44:WE:292:THR:HG22	2.10	0.52
44:WE:311:LYS:HE2	44:WE:342:GLN:NE2	2.24	0.52
44:WG:296:PHE:CE2	44:WG:335:ILE:HG21	2.45	0.52
44:WI:261:PRO:HB3	45:WL:394:PHE:CZ	2.44	0.52
44:WI:385:ALA:HB2	44:WI:432:TYR:CG	2.44	0.52
45:WJ:143:THR:HG22	48:WJ:502:GDP:PB	2.49	0.52
44:WM:248:LEU:HD23	44:WM:355:ILE:HG13	1.92	0.52
1:6H:266:LYS:NZ	44:FE:364:PRO:N	2.56	0.51
5:0D:9:TYR:HB3	44:CC:84:ARG:NH1	2.10	0.51
5:0D:54:PHE:C	44:EC:221:ARG:HB3	2.31	0.51
20:1J:183:GLN:NE2	44:IG:279:GLU:HG3	2.24	0.51
22:1L:752:LEU:HD21	45:BD:320:ARG:HH11	1.74	0.51
10:1N:16:ILE:HG22	45:IJ:48:ASN:HD22	1.74	0.51
15:1V:117:PRO:HG3	45:LL:392:LYS:HG3	1.90	0.51
16:1X:42:LYS:NZ	44:LE:56:THR:O	2.43	0.51
22:2L:832:PRO:HG3	35:5R:111:TYR:CD1	2.45	0.51
14:2U:139:ALA:HB3	44:VG:42:ILE:HD13	1.92	0.51
37:5D:38:THR:O	44:KK:262:TYR:HB2	2.09	0.51
37:5D:39:ARG:CZ	44:KK:200:VAL:HG13	2.40	0.51
38:5H:66:THR:HG22	45:NN:35:THR:CB	2.41	0.51
39:5K:19:MET:HA	39:5K:22:TRP:HE3	1.75	0.51
39:5K:95:LEU:HD23	39:5K:98:LEU:HD13	1.91	0.51
11:5Q:164:ARG:O	11:5Q:165:ILE:HD13	2.10	0.51
35:5R:531:THR:HB	35:5R:588:LEU:CD2	2.31	0.51
36:5S:149:ALA:O	36:5S:152:THR:HG22	2.09	0.51
11:6Q:30:ARG:HH11	11:6Q:30:ARG:HG3	1.75	0.51
35:6R:66:THR:CG2	45:MN:39:ASP:O	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:436:GLU:OE2	45:FB:280:GLN:HB2	2.10	0.51
43:8P:328:UNK:O	43:8P:332:UNK:N	2.43	0.51
43:8R:99:UNK:O	43:8R:103:UNK:N	2.44	0.51
44:AA:16:VAL:O	44:AA:20:CYS:HB3	2.10	0.51
44:AA:398:MET:HE1	45:AB:345:ILE:HG13	1.92	0.51
45:AB:418:LEU:HD12	45:AB:421:GLU:OE2	2.10	0.51
44:AC:182:VAL:HG22	44:AC:182:VAL:O	2.09	0.51
44:AE:182:VAL:O	44:AE:182:VAL:HG22	2.10	0.51
44:AE:259:LEU:HD21	44:AE:316:SER:HB3	1.91	0.51
44:AI:200:VAL:HG13	44:AI:268:MET:HE1	1.92	0.51
44:AI:258:ASN:ND2	44:AI:352:LYS:HB2	2.25	0.51
44:AM:3:GLU:HG2	44:AM:64:ARG:CZ	2.40	0.51
44:AM:22:GLU:HG3	44:AM:83:TYR:CZ	2.45	0.51
44:AM:88:HIS:O	44:AM:91:GLN:HG2	2.11	0.51
44:AM:324:VAL:CG1	44:AM:325:PRO:HD2	2.40	0.51
45:AN:8:GLN:O	45:AN:66:MET:HB3	2.09	0.51
45:AN:20:PHE:O	45:AN:24:ILE:HG12	2.11	0.51
45:AN:93:GLY:N	45:AN:112:LEU:HD11	2.25	0.51
45:AN:139:LEU:HD13	45:AN:168:SER:CB	2.32	0.51
45:AN:323:THR:O	45:AN:326:VAL:HG22	2.10	0.51
44:BA:46:ASP:O	44:BA:47:ASP:HB2	2.10	0.51
44:BA:296:PHE:HD2	44:BA:335:ILE:HD12	1.74	0.51
45:BD:63:ALA:O	45:BD:89:ASN:ND2	2.30	0.51
45:BD:102:ALA:CB	45:BD:401:GLU:HB2	2.40	0.51
44:BE:205:ASP:CG	44:BE:304:LYS:H	2.13	0.51
44:BM:33:ASP:HB3	44:BM:35:GLN:NE2	2.25	0.51
44:BM:185:TYR:HE1	44:BM:398:MET:HB3	1.74	0.51
45:BN:182:PRO:HG3	45:BN:384:GLN:HG2	1.93	0.51
44:CA:97:GLU:HG2	44:CA:105:ARG:HH22	1.75	0.51
44:CA:244:PHE:HE1	44:CA:357:TYR:HB2	1.75	0.51
45:CB:184:ASN:OD1	45:CB:185:ALA:N	2.42	0.51
44:CC:175:PRO:HG2	44:CC:304:LYS:CG	2.39	0.51
45:CD:173:PRO:HG2	45:CD:380:ARG:HD3	1.91	0.51
45:CF:7:ILE:HG22	45:CF:64:ILE:CD1	2.36	0.51
45:CF:324:LYS:HD3	44:CG:222:PRO:CD	2.39	0.51
45:CF:372:THR:HA	45:CF:422:TYR:CE1	2.44	0.51
44:CI:13:GLY:CA	44:CI:16:VAL:HG12	2.38	0.51
45:CJ:314:SER:O	45:CJ:368:VAL:HG12	2.10	0.51
44:CK:13:GLY:O	44:CK:17:GLY:N	2.32	0.51
45:CL:99:ASN:C	45:CL:142:GLY:HA3	2.31	0.51
44:CM:265:ILE:CG2	44:CM:380:ASN:HD21	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:281:ALA:O	44:CM:284:GLU:HG2	2.10	0.51
45:CN:116:VAL:O	45:CN:119:VAL:HG12	2.09	0.51
44:DA:320:ARG:HA	44:DA:356:ASN:CB	2.36	0.51
45:DB:259:PRO:HA	44:DC:404:PHE:CE2	2.44	0.51
44:DC:182:VAL:C	44:DC:184:PRO:HD2	2.31	0.51
44:DE:76:ASP:HA	44:DE:79:ARG:NE	2.25	0.51
44:DE:189:LEU:HD23	44:DE:421:ALA:HB2	1.90	0.51
45:DH:49:VAL:HG21	45:DH:241:ARG:HG2	1.91	0.51
44:DI:155:GLU:O	44:DI:158:SER:OG	2.28	0.51
44:DI:306:ASP:OD1	44:DI:308:ARG:N	2.36	0.51
45:DL:9:GLY:O	45:DL:13:GLY:HA3	2.10	0.51
45:DL:110:ALA:HA	45:DL:113:ILE:CG2	2.40	0.51
44:DM:33:ASP:HB3	44:DM:85:GLN:NE2	2.25	0.51
44:DM:63:PRO:CG	44:DM:86:LEU:HG	2.34	0.51
45:DN:276:ARG:O	45:DN:279:GLN:NE2	2.38	0.51
44:EC:75:ILE:O	44:EC:78:VAL:HG12	2.09	0.51
44:EC:95:GLY:HA2	44:EC:114:ILE:CD1	2.40	0.51
44:EC:161:TYR:HB3	44:EC:164:LYS:HG3	1.92	0.51
44:EC:306:ASP:HB3	44:EC:309:HIS:CG	2.46	0.51
44:EC:359:PRO:HB3	44:EC:372:MET:HB2	1.91	0.51
45:ED:68:LEU:HD23	45:ED:97:ALA:CA	2.40	0.51
44:EE:304:LYS:HE2	44:EE:304:LYS:HA	1.91	0.51
45:EH:143:THR:O	45:EH:147:MET:HB3	2.11	0.51
45:EJ:310:TYR:HB2	45:EJ:341:PHE:CE2	2.44	0.51
44:EK:14:ILE:HD11	44:EK:69:ASP:CB	2.31	0.51
44:EK:117:LEU:O	44:EK:120:ASP:N	2.43	0.51
45:EL:265:PHE:HB2	45:EL:374:ILE:HD12	1.92	0.51
44:EM:102:ASN:CG	44:EM:105:ARG:HG3	2.29	0.51
44:EM:390:ARG:HG3	44:EM:391:LEU:H	1.75	0.51
45:EN:334:GLN:O	45:EN:338:SER:OG	2.17	0.51
45:FB:131:GLN:O	45:FB:163:ILE:HG12	2.10	0.51
44:FC:250:VAL:O	44:FC:250:VAL:HG13	2.09	0.51
44:FC:348:PRO:HG2	45:FF:384:GLN:CD	2.30	0.51
45:FD:87:PRO:CD	45:GD:281:TYR:HD2	2.23	0.51
44:FE:71:GLU:HG3	45:FF:247:ASN:ND2	2.25	0.51
44:FE:149:LEU:O	44:FE:153:LEU:HG	2.10	0.51
44:FG:13:GLY:O	44:FG:16:VAL:HG12	2.10	0.51
44:FG:292:THR:HG21	44:FG:331:SER:CB	2.25	0.51
45:FH:302:ALA:HB3	45:FH:377:MET:CE	2.40	0.51
44:FI:102:ASN:O	44:FI:105:ARG:HB2	2.10	0.51
44:FM:70:LEU:HA	44:FM:95:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:23:VAL:HG21	45:FN:230:SER:HB3	1.92	0.51
44:GA:98:ASP:HB3	45:GB:249:ASP:OD2	2.10	0.51
44:GA:428:LEU:HG	44:GA:432:TYR:CE2	2.46	0.51
45:GB:257:LEU:HD11	45:GB:314:SER:HB2	1.92	0.51
45:GB:380:ARG:O	45:GB:383:GLU:HB2	2.10	0.51
44:GC:172:TYR:HB3	44:GC:173:PRO:HD2	1.91	0.51
44:GC:269:LEU:HD23	44:GC:379:SER:O	2.09	0.51
45:GD:97:ALA:HB2	45:GD:143:THR:HA	1.92	0.51
45:GF:54:ALA:CB	45:HF:283:ALA:HB2	2.39	0.51
45:GH:100:ASN:HB3	45:GH:103:LYS:HB2	1.90	0.51
44:GI:141:VAL:HG12	44:GI:171:ILE:O	2.10	0.51
44:GI:263:PRO:HB2	44:GI:264:ARG:HH22	1.76	0.51
44:GK:29:GLY:HA3	44:GK:40:LYS:HE3	1.91	0.51
44:GM:8:HIS:O	44:GM:68:LEU:HD13	2.10	0.51
44:HA:276:ILE:CD1	44:HA:281:ALA:HA	2.40	0.51
44:HC:207:GLU:HG3	44:HC:304:LYS:HZ2	1.74	0.51
45:HD:72:THR:O	45:HD:75:SER:OG	2.26	0.51
44:HE:244:PHE:CG	44:HE:358:GLN:HG3	2.44	0.51
44:HE:296:PHE:CE2	44:HE:335:ILE:HG12	2.45	0.51
44:HG:407:TRP:O	44:HG:410:GLY:N	2.34	0.51
45:HH:102:ALA:HB2	45:HH:403:MET:HE2	1.92	0.51
45:HJ:336:LYS:HD2	45:HJ:336:LYS:O	2.10	0.51
44:HK:68:LEU:HD22	44:HK:153:LEU:HD11	1.92	0.51
45:HL:101:TRP:HZ3	45:HL:187:LEU:CG	2.12	0.51
44:HM:221:ARG:NH1	45:HN:325:GLU:HB3	2.25	0.51
44:HM:316:SER:HA	44:HM:352:LYS:HB3	1.91	0.51
45:HN:8:GLN:HE21	45:HN:65:LEU:CD2	2.22	0.51
45:HN:86:ARG:HE	45:HN:87:PRO:CD	2.20	0.51
45:IB:334:GLN:NE2	45:IB:348:ASN:H	2.05	0.51
44:IC:268:MET:HB2	44:IC:379:SER:O	2.10	0.51
45:ID:304:ASP:OD1	45:ID:305:PRO:HD2	2.09	0.51
45:IF:80:PRO:O	45:IF:81:PHE:HB2	2.10	0.51
44:IG:238:LEU:O	44:IG:238:LEU:HD23	2.10	0.51
44:II:98:ASP:OD1	44:II:99:ALA:N	2.43	0.51
45:IJ:34:GLY:O	45:IJ:58:ARG:HA	2.10	0.51
45:IJ:267:MET:CE	45:IJ:299:MET:HB3	2.40	0.51
45:IJ:349:ILE:HG13	45:IJ:349:ILE:O	2.09	0.51
44:IK:68:LEU:HD11	44:IK:93:ILE:HB	1.91	0.51
44:IK:221:ARG:HG3	45:IL:322:SER:HB3	1.91	0.51
44:IM:21:TRP:O	44:IM:25:CYS:N	2.35	0.51
44:IM:96:LYS:HB3	45:IN:1:MET:CE	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:269:LEU:H	44:IM:269:LEU:HD23	1.75	0.51
44:IM:293:ASN:OD1	44:IM:335:ILE:HD11	2.09	0.51
45:IN:301:CYS:CB	45:IN:377:MET:HE1	2.29	0.51
45:IN:329:GLN:O	45:IN:333:VAL:HG23	2.10	0.51
45:IN:332:ASN:O	45:IN:336:LYS:HE2	2.10	0.51
45:JB:267:MET:HG3	45:JB:374:ILE:HD11	1.91	0.51
45:JB:286:VAL:O	45:JB:290:THR:HG22	2.10	0.51
45:JB:395:LEU:HD11	45:JB:408:PHE:CE2	2.45	0.51
44:JC:56:THR:HG23	44:JC:61:HIS:HA	1.92	0.51
45:JD:60:VAL:HG21	45:JD:86:ARG:CZ	2.41	0.51
44:JE:326:LYS:NZ	45:JH:225:LEU:HD21	2.25	0.51
45:JH:3:GLU:OE2	45:JH:127:CYS:HB2	2.10	0.51
45:JH:296:ALA:HB2	45:JH:306:ARG:HH21	1.75	0.51
44:JI:102:ASN:ND2	44:JI:105:ARG:HG3	2.25	0.51
44:JI:156:ARG:O	44:JI:159:VAL:HG22	2.09	0.51
44:JI:319:TYR:HB2	44:JI:355:ILE:HD13	1.93	0.51
44:JK:156:ARG:HG3	44:JK:160:ASP:OD2	2.09	0.51
44:JK:169:PHE:HB3	44:JK:204:LEU:HD12	1.91	0.51
44:JK:265:ILE:HG23	44:JK:432:TYR:CE1	2.45	0.51
44:JK:287:SER:O	44:JK:291:ILE:HG23	2.09	0.51
45:JL:204:ASN:O	45:JL:207:LEU:HB2	2.09	0.51
44:JM:237:SER:HA	44:JM:320:ARG:NH1	2.25	0.51
44:JM:294:SER:HA	44:JM:297:GLU:OE2	2.11	0.51
44:JM:344:VAL:HG11	44:JM:346:TRP:CE2	2.44	0.51
45:JN:242:PHE:HB3	45:JN:243:PRO:CD	2.40	0.51
45:KB:300:MET:O	45:KB:300:MET:HG3	2.10	0.51
45:KD:12:CYS:HB2	48:KD:501:GDP:C8	2.46	0.51
45:KD:267:MET:HE2	45:KD:301:CYS:HB2	1.90	0.51
44:KE:51:THR:HG21	44:KE:243:ARG:HD3	1.92	0.51
44:KE:280:LYS:HG3	44:KE:284:GLU:OE2	2.10	0.51
45:KF:66:MET:HE1	45:KF:147:MET:SD	2.50	0.51
44:KG:242:LEU:CD1	44:KG:252:ILE:HD11	2.23	0.51
45:KH:117:LEU:HA	45:KH:120:VAL:CG1	2.40	0.51
45:KH:175:VAL:HG22	45:KH:205:GLU:HG2	1.91	0.51
45:KJ:263:LEU:HD11	45:KJ:421:GLU:CG	2.40	0.51
44:KK:164:LYS:HE2	44:KK:164:LYS:HA	1.91	0.51
44:KK:239:THR:HG23	44:KK:243:ARG:NE	2.23	0.51
44:KK:248:LEU:CD2	44:KK:353:VAL:HG23	2.39	0.51
45:KL:268:ILE:HG13	45:KL:300:MET:CE	2.40	0.51
44:KM:432:TYR:O	44:KM:435:VAL:HG12	2.09	0.51
45:KN:258:ILE:HG22	45:KN:260:PHE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:309:ARG:HB2	45:KN:342:VAL:HG22	1.91	0.51
44:LA:80:THR:O	44:LA:84:ARG:NH2	2.42	0.51
44:LA:301:MET:CE	44:LA:301:MET:HA	2.39	0.51
44:LA:323:VAL:CG2	44:LA:355:ILE:HG23	2.40	0.51
45:LB:11:GLN:O	45:LB:15:GLN:HG2	2.10	0.51
44:LC:104:ALA:CB	44:LC:413:MET:HE2	2.35	0.51
45:LD:413:SER:O	45:LD:417:ASP:HB2	2.10	0.51
44:LG:188:ILE:HG23	44:LG:425:LEU:CD1	2.34	0.51
44:LI:204:LEU:CD2	44:LI:302:MET:HG2	2.40	0.51
44:LI:210:TYR:HE1	44:LI:227:LEU:CD1	2.23	0.51
44:LI:261:PRO:HA	45:LL:394:PHE:CE1	2.45	0.51
44:LI:319:TYR:CD2	44:LI:328:VAL:HG22	2.44	0.51
44:LK:120:ASP:O	44:LK:124:LYS:HG3	2.09	0.51
44:LM:320:ARG:HG2	44:LM:374:ALA:HB3	1.91	0.51
44:MA:103:PHE:CE2	44:MA:189:LEU:HD13	2.45	0.51
45:MB:11:GLN:O	45:MB:15:GLN:HG2	2.10	0.51
45:MB:184:ASN:HA	45:MB:187:LEU:HB2	1.92	0.51
45:MB:405:GLU:O	45:MB:408:PHE:HB2	2.09	0.51
44:MC:250:VAL:HG11	44:MC:318:MET:SD	2.51	0.51
44:ME:30:ILE:HD13	44:ME:36:MET:HE1	1.92	0.51
44:MG:14:ILE:CD1	44:MG:75:ILE:HD11	2.40	0.51
44:MI:253:THR:HG23	44:MI:254:GLU:HG2	1.92	0.51
44:MK:133:GLN:O	44:MK:165:SER:OG	2.17	0.51
44:MK:363:VAL:CG2	44:MK:364:PRO:HD2	2.39	0.51
45:ML:2:ARG:HA	45:ML:129:CYS:O	2.10	0.51
45:ML:295:ASP:OD1	45:ML:296:ALA:N	2.43	0.51
44:MM:111:GLY:O	44:MM:115:VAL:HG13	2.10	0.51
44:MM:319:TYR:CZ	44:MM:328:VAL:HG22	2.45	0.51
45:NB:165:GLU:OE2	45:NB:200:MET:HG2	2.10	0.51
45:NB:192:LEU:O	45:NB:196:ALA:HB3	2.10	0.51
45:NB:241:ARG:HG3	45:NB:241:ARG:NH1	2.25	0.51
44:NC:222:PRO:HD2	45:ND:324:LYS:CD	2.40	0.51
44:NC:254:GLU:HG3	45:NF:98:GLY:HA2	1.92	0.51
45:ND:36:TYR:CD1	45:ND:44:LEU:HD11	2.45	0.51
45:ND:73:MET:O	45:ND:76:VAL:HG12	2.10	0.51
45:ND:114:ASP:CA	45:ND:117:LEU:HD12	2.34	0.51
45:ND:132:GLY:CA	45:ND:162:ARG:HD2	2.40	0.51
45:ND:178:THR:CB	45:ND:181:GLU:HG3	2.38	0.51
45:NF:10:GLY:C	45:NF:14:ASN:HD22	2.14	0.51
45:NH:294:PHE:CE2	45:NH:333:VAL:HG11	2.44	0.51
44:NI:13:GLY:O	44:NI:16:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:99:ALA:HB3	44:NI:145:THR:HB	1.92	0.51
44:NI:286:LEU:HD12	44:NI:290:GLU:OE2	2.10	0.51
44:NK:216:ASN:HB3	44:NK:275:ILE:O	2.11	0.51
44:NK:219:ILE:HG22	44:NK:221:ARG:H	1.75	0.51
44:NK:425:LEU:O	44:NK:429:GLU:HG3	2.09	0.51
44:NM:298:PRO:HG2	44:NM:308:ARG:CZ	2.39	0.51
45:NN:2:ARG:O	45:NN:2:ARG:HG2	2.10	0.51
45:NN:16:ILE:HG13	45:NN:17:GLY:N	2.25	0.51
44:OA:183:GLU:HG2	44:OA:184:PRO:HD3	1.92	0.51
44:OA:222:PRO:HG2	45:OB:324:LYS:CB	2.40	0.51
45:OB:113:ILE:O	45:OB:116:VAL:HG12	2.08	0.51
44:OC:71:GLU:OE2	44:OC:73:THR:HG23	2.10	0.51
44:OC:167:LEU:CD2	44:OC:200:VAL:HG21	2.39	0.51
45:OD:3:GLU:O	45:OD:131:GLN:HB3	2.09	0.51
45:OD:8:GLN:NE2	45:OD:65:LEU:HG	2.26	0.51
45:OD:196:ALA:HB3	45:OD:264:HIS:HE1	1.74	0.51
44:OE:60:LYS:HG2	44:OE:61:HIS:N	2.24	0.51
44:OE:105:ARG:HG2	44:OE:411:GLU:OE1	2.10	0.51
45:OF:320:ARG:HH22	45:OF:355:ASP:CB	2.23	0.51
45:OH:237:THR:HG23	45:OH:240:LEU:HB3	1.91	0.51
45:OJ:172:SER:HB2	45:OJ:173:PRO:CD	2.40	0.51
44:OK:431:ASP:O	44:OK:435:VAL:HG23	2.10	0.51
44:PA:269:LEU:CD2	44:PA:384:ILE:HD11	2.26	0.51
45:PB:64:ILE:HG23	45:PB:89:ASN:O	2.09	0.51
45:PB:152:ILE:HD12	45:PB:164:MET:HE2	1.92	0.51
44:PE:317:MET:CE	44:PE:319:TYR:HE2	2.23	0.51
45:PF:143:THR:HG23	45:PF:144:GLY:N	2.25	0.51
45:PF:170:VAL:HG22	45:PF:201:VAL:CG2	2.40	0.51
45:PF:391:ARG:O	45:PF:392:LYS:HG2	2.10	0.51
44:PG:108:TYR:CE2	44:PG:413:MET:HA	2.44	0.51
45:PH:65:LEU:HD11	45:PH:85:PHE:CG	2.45	0.51
45:PH:350:LYS:HG3	45:PH:351:SER:N	2.24	0.51
44:PI:258:ASN:ND2	44:PI:352:LYS:HD3	2.25	0.51
44:PI:419:SER:O	44:PI:423:GLU:N	2.37	0.51
45:PJ:63:ALA:HB1	45:PJ:65:LEU:CD1	2.40	0.51
45:PJ:165:GLU:OE2	45:PJ:250:LEU:HD13	2.09	0.51
44:PK:265:ILE:CD1	44:PK:432:TYR:HA	2.39	0.51
44:PM:216:ASN:HB3	44:PM:275:ILE:HG22	1.92	0.51
45:PN:252:LYS:HA	45:PN:255:VAL:HG23	1.92	0.51
45:PN:381:VAL:HG22	45:PN:384:GLN:HE21	1.75	0.51
44:QA:82:THR:HG23	44:QA:83:TYR:CD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:234:VAL:HG22	44:QA:272:TYR:HB2	1.92	0.51
45:QD:187:LEU:HD11	45:QD:408:PHE:CZ	2.45	0.51
44:QE:31:GLN:HB2	44:QE:35:GLN:O	2.11	0.51
44:QE:166:LYS:HE2	44:QE:197:HIS:O	2.10	0.51
44:QE:204:LEU:CD1	44:QE:231:ILE:HD11	2.39	0.51
45:QF:45:GLU:O	45:QF:46:ARG:HD2	2.10	0.51
45:QF:290:THR:HA	45:QF:293:MET:HG2	1.92	0.51
44:QG:14:ILE:HD11	44:QG:69:ASP:CB	2.40	0.51
44:QG:163:LYS:O	44:QG:163:LYS:HG2	2.08	0.51
45:QH:143:THR:H	48:QH:501:GDP:PB	2.32	0.51
45:QH:258:ILE:HD11	45:QH:266:PHE:CZ	2.45	0.51
45:QH:285:THR:CB	45:QH:287:PRO:HD2	2.40	0.51
45:QH:289:LEU:HB3	45:QH:365:VAL:HG11	1.92	0.51
44:QK:54:SER:HB3	44:QK:64:ARG:CZ	2.40	0.51
45:QL:72:THR:HG23	45:QL:73:MET:HE2	1.92	0.51
44:QM:6:SER:O	44:QM:7:ILE:HD13	2.09	0.51
44:QM:273:ALA:O	44:QM:375:VAL:N	2.40	0.51
45:QN:135:ILE:CB	45:QN:166:THR:HA	2.26	0.51
44:RA:98:ASP:OD1	44:RA:99:ALA:N	2.42	0.51
44:RA:262:TYR:CE1	45:RB:393:ALA:HA	2.45	0.51
44:RC:125:LEU:O	44:RC:128:ASN:N	2.42	0.51
44:RC:157:LEU:O	44:RC:161:TYR:N	2.25	0.51
44:RC:296:PHE:CE2	44:RC:335:ILE:HG21	2.44	0.51
45:RD:324:LYS:HD2	44:RE:210:TYR:CD1	2.44	0.51
44:RE:260:VAL:HG11	45:RF:397:TRP:CZ2	2.44	0.51
44:RG:213:CYS:HA	44:RG:217:LEU:CD1	2.35	0.51
44:RG:384:ILE:HG13	44:RG:387:VAL:CG2	2.39	0.51
44:RG:426:ALA:O	44:RG:430:LYS:N	2.31	0.51
45:RH:256:ASN:HD22	45:RH:350:LYS:HD2	1.74	0.51
45:RH:259:PRO:HB2	45:RH:260:PHE:CD2	2.45	0.51
45:RH:288:GLU:HA	45:RH:291:GLN:CG	2.40	0.51
44:RI:51:THR:OG1	44:RI:243:ARG:HD3	2.10	0.51
45:RJ:383:GLU:HA	45:RJ:386:THR:CG2	2.40	0.51
44:RK:5:ILE:HB	44:RK:135:PHE:CD1	2.44	0.51
44:RK:64:ARG:HG3	44:RK:125:LEU:CD2	2.29	0.51
45:RL:28:HIS:HA	45:RL:43:GLN:OE1	2.10	0.51
45:RL:58:ARG:HD3	45:RL:59:TYR:N	2.25	0.51
45:RL:246:LEU:HG	46:RM:501:GTP:O5'	2.10	0.51
44:RM:5:ILE:HB	44:RM:135:PHE:CD1	2.46	0.51
44:RM:224:TYR:O	44:RM:227:LEU:N	2.43	0.51
44:RM:272:TYR:HD2	44:RM:275:ILE:HD11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:4:VAL:O	44:SA:64:ARG:HB2	2.10	0.51
45:SB:390:ARG:HG3	45:SB:391:ARG:N	2.25	0.51
44:SC:53:PHE:CB	44:SC:61:HIS:HB3	2.37	0.51
44:SC:238:LEU:HA	44:SC:318:MET:HG2	1.92	0.51
45:SD:134:GLN:O	45:SD:134:GLN:HG3	2.10	0.51
45:SD:190:HIS:CE1	45:SD:414:ASN:HD22	2.28	0.51
44:SE:259:LEU:HD13	44:SE:314:ALA:CB	2.39	0.51
45:SF:68:LEU:HD23	45:SF:97:ALA:CA	2.39	0.51
45:SH:262:ARG:O	45:SH:263:LEU:HD22	2.09	0.51
44:SI:77:GLU:OE1	44:SI:80:THR:OG1	2.29	0.51
44:SI:284:GLU:O	44:SI:286:LEU:HD23	2.11	0.51
44:SI:292:THR:HG21	44:SI:331:SER:HB3	1.92	0.51
45:SJ:52:ASN:OD1	45:SJ:62:ARG:NH2	2.42	0.51
44:SK:150:GLY:O	44:SK:154:LEU:HG	2.10	0.51
45:SL:116:VAL:CA	45:SL:119:VAL:HG12	2.35	0.51
45:SL:318:ARG:CB	45:SL:364:ALA:HB3	2.39	0.51
45:SL:405:GLU:O	45:SL:408:PHE:HB2	2.10	0.51
45:SN:66:MET:CE	45:SN:116:VAL:HG21	2.40	0.51
44:TC:30:ILE:HG12	44:TC:36:MET:HE1	1.92	0.51
44:TC:301:MET:HE2	44:TC:301:MET:HA	1.92	0.51
44:TC:379:SER:HG	44:TC:380:ASN:H	1.58	0.51
45:TD:272:PRO:HD2	45:TD:364:ALA:HA	1.91	0.51
45:TD:311:LEU:N	45:TD:370:ASN:O	2.44	0.51
44:TE:187:SER:HA	44:TE:190:SER:OG	2.10	0.51
45:TF:161:ASP:OD1	45:TF:162:ARG:HG2	2.10	0.51
45:TH:3:GLU:N	45:TH:3:GLU:OE1	2.42	0.51
45:TH:252:LYS:HG3	44:TI:101:ASN:ND2	2.21	0.51
44:TK:254:GLU:CG	45:TL:98:GLY:HA2	2.40	0.51
45:TL:130:LEU:HG	45:TL:162:ARG:HD3	1.91	0.51
45:TN:42:LEU:HD23	45:TN:243:PRO:HD2	1.92	0.51
44:UA:288:VAL:H	44:UA:373:ARG:NH2	2.08	0.51
44:UA:305:CYS:SG	44:UA:383:ALA:HB1	2.50	0.51
44:UC:252:ILE:HD12	44:UC:252:ILE:H	1.75	0.51
44:UE:205:ASP:OD2	44:UE:304:LYS:N	2.32	0.51
45:UF:12:CYS:SG	45:UF:138:SER:HB2	2.50	0.51
44:UG:209:ILE:HA	44:UG:212:ILE:HG12	1.91	0.51
45:UH:248:SER:HB2	45:UH:352:SER:OG	2.10	0.51
45:UH:272:PRO:HA	45:UH:292:GLN:OE1	2.10	0.51
44:UI:98:ASP:OD1	44:UI:99:ALA:N	2.44	0.51
44:UI:145:THR:HG22	46:UI:501:GTP:O3B	2.10	0.51
44:UI:165:SER:HA	44:UI:199:ASP:OD2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:247:ALA:HB1	45:UJ:222:TYR:HD2	1.72	0.51
44:UK:88:HIS:CG	44:UK:89:PRO:HD2	2.45	0.51
44:UK:103:PHE:CD2	44:UK:189:LEU:HD13	2.45	0.51
44:UK:312:TYR:HB2	44:UK:343:PHE:HD1	1.75	0.51
44:UM:141:VAL:CG1	44:UM:172:TYR:HA	2.30	0.51
45:UN:185:ALA:O	45:UN:188:SER:OG	2.16	0.51
45:UN:315:ALA:N	45:UN:350:LYS:O	2.42	0.51
45:VB:47:ILE:HD13	45:VB:59:TYR:CE2	2.45	0.51
45:VB:267:MET:HE3	45:VB:374:ILE:HG22	1.93	0.51
45:VD:263:LEU:HD22	45:VD:422:TYR:HE1	1.76	0.51
44:VE:268:MET:HB2	44:VE:380:ASN:CA	2.39	0.51
45:VF:49:VAL:HG11	45:VF:241:ARG:CD	2.40	0.51
44:VG:100:ALA:CB	45:VH:255:VAL:HG21	2.40	0.51
44:VG:311:LYS:CD	44:VG:342:GLN:HG3	2.39	0.51
45:VH:34:GLY:O	45:VH:58:ARG:HA	2.09	0.51
45:VH:202:ILE:CD1	45:VH:268:ILE:HD11	2.37	0.51
45:VH:329:GLN:O	45:VH:333:VAL:HG23	2.09	0.51
44:VI:204:LEU:HA	44:VI:302:MET:HG3	1.91	0.51
45:VJ:113:ILE:CA	45:VJ:116:VAL:HG12	2.36	0.51
45:VJ:257:LEU:HA	45:VJ:312:THR:CG2	2.40	0.51
44:VK:296:PHE:HE1	44:VK:377:MET:SD	2.33	0.51
45:VL:193:VAL:HG23	45:VL:264:HIS:CE1	2.45	0.51
44:VM:181:VAL:HG11	45:VN:312:THR:OG1	2.10	0.51
45:VN:15:GLN:O	45:VN:18:ALA:HB3	2.10	0.51
45:VN:110:ALA:O	45:VN:113:ILE:HG22	2.10	0.51
44:WA:2:ARG:HH22	45:WD:71:GLY:H	1.58	0.51
45:WB:51:TYR:HB3	45:WB:59:TYR:HB3	1.91	0.51
45:WB:318:ARG:HH11	45:WB:358:PRO:HG3	1.74	0.51
45:WD:193:VAL:HA	45:WD:264:HIS:CE1	2.44	0.51
44:WG:14:ILE:CD1	44:WG:69:ASP:HB2	2.37	0.51
44:WI:246:GLY:HA2	44:WI:357:TYR:CE1	2.45	0.51
45:WL:10:GLY:HA3	45:WL:144:GLY:HA2	1.91	0.51
45:WL:251:ARG:O	45:WL:254:ALA:HB3	2.10	0.51
45:WL:342:VAL:HG22	45:WL:344:TRP:CD1	2.45	0.51
44:WM:26:LEU:CD2	44:WM:364:PRO:HD2	2.39	0.51
45:WN:8:GLN:HB2	45:WN:13:GLY:O	2.10	0.51
45:WN:25:SER:O	45:WN:30:ILE:N	2.41	0.51
4:OC:81:TYR:CE1	45:EH:43:GLN:HG3	2.45	0.51
4:OC:82:THR:HG23	45:EH:320:ARG:HH22	1.75	0.51
5:OD:57:THR:HA	44:EC:219:ILE:HD13	1.91	0.51
5:OD:213:PHE:CD1	35:7R:433:GLN:HG2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:0U:236:LEU:CD2	45:WB:33:THR:HG22	2.39	0.51
16:0X:1:MET:N	44:MA:249:ASN:HD22	2.07	0.51
20:1J:262:VAL:HB	44:II:370:LYS:NZ	2.23	0.51
10:1N:482:VAL:HG21	44:II:39:ASP:CB	2.39	0.51
26:1R:93:VAL:HA	44:AC:370:LYS:HE2	1.91	0.51
2:2A:10:PRO:HG2	45:LJ:31:ASP:HB3	1.91	0.51
17:2B:1:MET:CE	45:LL:359:LYS:HB2	2.40	0.51
5:2D:171:LEU:HD12	44:EK:89:PRO:HA	1.92	0.51
22:2L:672:THR:CG2	45:CL:320:ARG:HH22	2.21	0.51
26:2R:99:VAL:HG21	44:AG:41:THR:C	2.30	0.51
2:3A:72:GLY:HA3	44:AM:223:THR:HG22	1.91	0.51
22:3L:42:LYS:HZ2	45:BB:42:LEU:CD2	2.21	0.51
12:3S:184:PRO:CG	44:WK:127:ASP:HB3	2.39	0.51
34:4F:26:ARG:HH22	44:HI:77:GLU:CG	2.22	0.51
37:5D:110:ARG:C	44:NM:282:TYR:H	2.11	0.51
38:5E:206:VAL:HG21	44:LC:426:ALA:CB	2.39	0.51
11:5Q:17:ILE:HG22	45:WL:125:GLU:OE2	2.11	0.51
11:5Q:91:VAL:HG12	11:5Q:154:VAL:HG12	1.91	0.51
11:5Q:100:ARG:HG2	11:5Q:100:ARG:HH11	1.75	0.51
41:6G:122:TYR:O	41:6G:123:LEU:HD22	2.09	0.51
41:6G:276:PRO:HG3	41:6G:284:LYS:HD3	1.92	0.51
35:6R:42:THR:O	35:6R:42:THR:OG1	2.28	0.51
35:6R:300:PHE:HD2	45:CN:77:ARG:HH11	1.58	0.51
35:7R:286:GLU:OE2	35:7R:288:LYS:HG3	2.11	0.51
35:7R:300:PHE:CE2	45:CB:77:ARG:HD3	2.45	0.51
43:8R:137:UNK:O	43:8R:141:UNK:N	2.43	0.51
45:AB:18:ALA:HB3	45:AB:19:LYS:HZ2	1.75	0.51
45:AB:103:LYS:HG3	45:AB:108:GLU:HG2	1.91	0.51
45:AB:421:GLU:HA	45:AB:424:GLN:HG3	1.92	0.51
44:AE:56:THR:HG22	44:AE:60:LYS:O	2.10	0.51
45:AF:193:VAL:O	45:AF:264:HIS:NE2	2.42	0.51
45:AF:285:THR:O	45:AF:287:PRO:CD	2.58	0.51
44:AG:247:ALA:HB1	45:AJ:222:TYR:HD2	1.73	0.51
44:AI:221:ARG:HH22	45:AJ:321:MET:HB2	1.74	0.51
44:AI:344:VAL:HG11	44:AI:346:TRP:CE2	2.45	0.51
44:AK:169:PHE:HE2	44:AK:202:VAL:HG21	1.74	0.51
44:AK:408:TYR:HB3	44:AK:413:MET:CE	2.39	0.51
45:AL:73:MET:O	45:AL:76:VAL:HG12	2.10	0.51
44:AM:102:ASN:CB	44:AM:105:ARG:HG3	2.40	0.51
45:AN:318:ARG:N	45:AN:364:ALA:O	2.35	0.51
44:BA:288:VAL:CA	44:BA:291:ILE:HG12	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BC:34:GLY:O	44:BC:60:LYS:HA	2.11	0.51
44:BC:204:LEU:HD23	44:BC:302:MET:HG2	1.92	0.51
45:BD:390:ARG:HH12	45:BD:391:ARG:CD	2.24	0.51
44:BE:422:ARG:HG3	44:BE:422:ARG:NH1	2.25	0.51
45:BF:295:ASP:OD1	45:BF:296:ALA:N	2.43	0.51
44:BG:312:TYR:HB2	44:BG:343:PHE:CD2	2.45	0.51
45:BJ:142:GLY:N	48:BJ:502:GDP:O2B	2.43	0.51
45:BJ:348:ASN:O	45:BJ:349:ILE:HD13	2.10	0.51
44:BM:182:VAL:C	44:BM:184:PRO:HD2	2.29	0.51
44:BM:388:PHE:HE2	44:BM:428:LEU:HD23	1.75	0.51
45:BN:16:ILE:HD13	45:BN:226:ASN:OD1	2.11	0.51
45:BN:286:VAL:HB	45:BN:325:GLU:OE2	2.10	0.51
45:CB:99:ASN:HA	45:CB:142:GLY:N	2.24	0.51
45:CD:228:LEU:O	45:CD:232:ALA:N	2.33	0.51
44:CE:62:VAL:HG13	44:CE:62:VAL:O	2.10	0.51
44:CE:115:VAL:HG21	44:CE:152:LEU:HG	1.91	0.51
44:CG:91:GLN:HG3	44:CG:92:LEU:HD12	1.92	0.51
44:CG:169:PHE:CD1	44:CG:235:ILE:HD11	2.44	0.51
44:CG:280:LYS:HD2	44:CG:280:LYS:O	2.11	0.51
45:CJ:60:VAL:HG11	45:CJ:86:ARG:NH2	2.25	0.51
44:CK:250:VAL:HG21	44:CK:318:MET:SD	2.51	0.51
45:CL:74:ASP:HA	45:CL:77:ARG:NH2	2.24	0.51
45:CL:256:ASN:HD22	45:CL:350:LYS:NZ	2.08	0.51
44:CM:152:LEU:HG	44:CM:156:ARG:NH1	2.20	0.51
44:CM:269:LEU:HD12	44:CM:303:ALA:HB3	1.92	0.51
45:CN:200:MET:HE1	45:CN:268:ILE:CD1	2.41	0.51
44:DA:93:ILE:HG21	44:DA:114:ILE:CG2	2.40	0.51
44:DA:213:CYS:O	44:DA:217:LEU:HB2	2.10	0.51
45:DB:134:GLN:HA	45:DB:165:GLU:O	2.09	0.51
44:DC:70:LEU:HG	44:DC:145:THR:OG1	2.11	0.51
44:DC:141:VAL:HG22	44:DC:187:SER:HA	1.92	0.51
45:DD:101:TRP:HE1	45:DD:146:GLY:HA2	1.74	0.51
44:DE:2:ARG:HB3	44:DE:242:LEU:HD11	1.92	0.51
44:DE:209:ILE:HG12	44:DE:302:MET:CE	2.36	0.51
45:DF:186:THR:HA	45:DF:415:MET:HE1	1.90	0.51
44:DG:256:GLN:HB2	44:DG:260:VAL:CG2	2.40	0.51
45:DH:110:ALA:O	45:DH:113:ILE:HG22	2.10	0.51
45:DH:374:ILE:HD11	45:DH:422:TYR:CZ	2.46	0.51
44:DI:254:GLU:CG	45:DJ:98:GLY:HA2	2.36	0.51
44:DI:285:GLN:NE2	44:DI:287:SER:HB2	2.24	0.51
45:DJ:49:VAL:HG12	45:DJ:50:TYR:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:221:THR:HG22	45:DJ:224:ASP:OD2	2.09	0.51
45:DL:204:ASN:OD1	48:DL:501:GDP:O2'	2.28	0.51
44:DM:313:MET:HE3	44:DM:381:SER:HA	1.91	0.51
44:EA:136:LEU:HD23	44:EA:167:LEU:HB2	1.91	0.51
44:EA:183:GLU:HG2	44:EA:184:PRO:HD3	1.91	0.51
45:ED:346:PRO:HD2	44:EE:398:MET:HE2	1.91	0.51
44:EE:264:ARG:HH11	44:EE:265:ILE:CG1	2.23	0.51
44:EE:323:VAL:HG13	44:EE:373:ARG:HH11	1.75	0.51
45:EF:345:ILE:HG13	44:EG:398:MET:HE3	1.92	0.51
44:EG:298:PRO:O	44:EG:301:MET:HG2	2.10	0.51
45:EH:20:PHE:HD1	45:EH:233:MET:HE3	1.76	0.51
44:EI:161:TYR:O	44:EI:164:LYS:NZ	2.31	0.51
45:EJ:378:PHE:HA	45:EJ:381:VAL:HG22	1.91	0.51
44:EK:210:TYR:CE1	44:EK:227:LEU:HD21	2.44	0.51
45:EL:303:ALA:HB1	45:EL:373:ALA:O	2.10	0.51
45:EL:344:TRP:CZ3	45:EL:345:ILE:HD13	2.45	0.51
44:EM:88:HIS:HE1	44:EM:90:GLU:HG2	1.69	0.51
44:EM:183:GLU:N	44:EM:184:PRO:HD2	2.24	0.51
45:EN:40:SER:H	45:EN:43:GLN:HE21	1.58	0.51
44:FA:6:SER:HA	44:FA:136:LEU:O	2.09	0.51
44:FA:186:ASN:O	44:FA:189:LEU:N	2.43	0.51
44:FA:212:ILE:HD13	44:FA:215:ARG:HH22	1.74	0.51
44:FA:312:TYR:CD1	44:FA:341:ILE:HG23	2.44	0.51
44:FA:323:VAL:CG2	44:FA:327:ASP:HB2	2.40	0.51
45:FB:217:LEU:HD11	45:FB:220:PRO:HG3	1.91	0.51
45:FB:245:GLN:HB2	45:FB:353:ILE:CB	2.36	0.51
44:FC:166:LYS:C	44:FC:167:LEU:HD12	2.31	0.51
44:FC:189:LEU:O	44:FC:193:SER:N	2.35	0.51
44:FE:221:ARG:HH22	45:FF:321:MET:HB2	1.75	0.51
45:FF:47:ILE:HG13	45:FF:51:TYR:HB2	1.91	0.51
45:FF:66:MET:HG3	45:FF:147:MET:HE1	1.92	0.51
45:FF:181:GLU:N	45:FF:182:PRO:HD2	2.24	0.51
44:FG:264:ARG:HH22	44:FG:428:LEU:HD22	1.75	0.51
44:FG:270:SER:C	44:FG:302:MET:HE3	2.30	0.51
44:FG:311:LYS:HB2	44:FG:382:THR:CG2	2.40	0.51
45:FH:207:LEU:HB3	45:FH:225:LEU:HD22	1.92	0.51
44:FI:8:HIS:CD2	44:FI:138:PHE:HD2	2.29	0.51
44:FI:22:GLU:OE2	44:FI:83:TYR:HE2	1.93	0.51
44:FI:168:GLY:O	44:FI:201:ALA:HA	2.10	0.51
44:FI:183:GLU:HG2	44:FI:184:PRO:HD3	1.93	0.51
44:FI:334:THR:C	44:FI:338:LYS:HZ3	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:118:CYS:O	44:FK:122:ILE:HG12	2.10	0.51
45:FL:294:PHE:CE2	45:FL:333:VAL:HG11	2.45	0.51
45:FN:404:ASP:HB2	45:FN:406:MET:HE1	1.92	0.51
44:GA:70:LEU:HA	44:GA:95:GLY:H	1.74	0.51
45:GB:299:MET:SD	45:GB:301:CYS:HB2	2.49	0.51
44:GC:186:ASN:OD1	44:GC:187:SER:N	2.43	0.51
44:GC:258:ASN:C	44:GC:259:LEU:HD23	2.30	0.51
44:GE:343:PHE:CZ	44:GE:351:PHE:HE1	2.28	0.51
45:GF:143:THR:HG23	48:GF:501:GDP:O1B	2.11	0.51
44:GG:141:VAL:HG12	44:GG:171:ILE:O	2.10	0.51
44:GG:181:VAL:HG22	45:GH:256:ASN:CB	2.40	0.51
44:GG:183:GLU:HG2	44:GG:184:PRO:CD	2.40	0.51
44:GI:68:LEU:HD21	44:GI:118:CYS:CB	2.41	0.51
45:GJ:253:LEU:O	45:GJ:257:LEU:HD13	2.10	0.51
44:GK:64:ARG:NH1	44:GK:129:CYS:SG	2.82	0.51
44:GK:137:VAL:HG12	44:GK:167:LEU:O	2.11	0.51
44:GK:203:MET:HA	44:GK:203:MET:HE3	1.92	0.51
44:GM:183:GLU:HG2	44:GM:184:PRO:HD3	1.91	0.51
44:GM:269:LEU:O	44:GM:379:SER:N	2.36	0.51
44:GM:404:PHE:CZ	45:GN:259:PRO:HA	2.45	0.51
44:HC:89:PRO:HD2	44:IC:283:HIS:ND1	2.25	0.51
44:HE:20:CYS:HB2	44:HE:24:PHE:CE2	2.46	0.51
45:HF:4:ILE:CG1	45:HF:50:TYR:HE1	2.23	0.51
45:HF:208:TYR:CZ	45:HF:225:LEU:HD11	2.44	0.51
45:HF:312:THR:HA	45:HF:348:ASN:HB2	1.92	0.51
44:HG:377:MET:O	44:HG:378:ILE:HD13	2.11	0.51
44:HG:404:PHE:HE1	45:HH:259:PRO:HA	1.75	0.51
45:HH:101:TRP:CZ3	45:HH:187:LEU:HB3	2.45	0.51
44:HI:25:CYS:HB2	44:HI:30:ILE:O	2.10	0.51
44:HI:262:TYR:HB3	44:HI:263:PRO:HD2	1.92	0.51
44:HK:68:LEU:HD21	44:HK:118:CYS:SG	2.49	0.51
44:HK:168:GLY:O	44:HK:201:ALA:HA	2.10	0.51
45:HL:300:MET:HA	45:HL:300:MET:CE	2.41	0.51
44:HM:9:VAL:HG21	44:HM:149:LEU:HB2	1.92	0.51
44:HM:55:GLU:HG3	44:HM:57:GLY:H	1.74	0.51
44:HM:170:THR:HG21	44:HM:194:LEU:HD22	1.90	0.51
44:HM:239:THR:HB	44:HM:243:ARG:NE	2.25	0.51
45:HN:388:MET:SD	45:HN:393:ALA:HB3	2.49	0.51
45:IB:4:ILE:HG22	45:IB:132:GLY:H	1.76	0.51
45:IB:32:PRO:HA	45:IB:84:LEU:HD11	1.93	0.51
45:ID:137:HIS:HE1	45:ID:139:LEU:HD12	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:170:VAL:HG22	45:ID:171:PRO:HD2	1.92	0.51
44:IE:54:SER:HB3	44:IE:64:ARG:NH2	2.25	0.51
44:IE:141:VAL:HG22	44:IE:187:SER:HA	1.91	0.51
44:IE:230:LEU:CD1	44:IE:275:ILE:HD13	2.40	0.51
45:IF:20:PHE:CE2	45:IF:24:ILE:HD11	2.46	0.51
44:IG:91:GLN:O	44:IG:93:ILE:HD12	2.10	0.51
44:IG:332:ILE:HD12	44:IG:351:PHE:CE2	2.45	0.51
45:IH:248:SER:CB	45:IH:252:LYS:HD2	2.40	0.51
45:IH:260:PHE:HB3	45:IH:261:PRO:HD2	1.91	0.51
45:IJ:3:GLU:OE1	45:IJ:3:GLU:N	2.42	0.51
45:IJ:68:LEU:HD21	45:IJ:108:GLU:CG	2.38	0.51
45:IJ:109:GLY:HA3	45:IJ:147:MET:HG3	1.91	0.51
44:IK:11:GLN:NE2	45:IL:245:GLN:O	2.43	0.51
44:IK:21:TRP:HZ2	44:IK:65:ALA:HB2	1.75	0.51
45:IL:183:TYR:O	45:IL:187:LEU:HD23	2.11	0.51
45:IL:215:LEU:HD21	45:IL:273:LEU:HD23	1.91	0.51
44:IM:211:ASP:HB3	44:IM:215:ARG:NH1	2.25	0.51
44:JA:230:LEU:O	44:JA:234:VAL:HG23	2.10	0.51
44:JA:402:ARG:HB3	44:JA:405:VAL:HG21	1.92	0.51
44:JC:52:PHE:HZ	44:JC:239:THR:HG21	1.74	0.51
45:JD:22:GLU:HG3	45:JD:81:PHE:CE2	2.42	0.51
45:JD:36:TYR:CE1	45:JD:44:LEU:HD21	2.46	0.51
44:JE:26:LEU:HD23	44:JE:363:VAL:HG12	1.91	0.51
44:JE:407:TRP:NE1	45:JF:255:VAL:HA	2.26	0.51
45:JF:65:LEU:HB2	45:JF:90:PHE:HZ	1.76	0.51
45:JF:162:ARG:NE	45:JF:162:ARG:HA	2.25	0.51
44:JG:109:THR:HG23	44:JG:110:ILE:N	2.25	0.51
45:JJ:4:ILE:HD11	45:JJ:50:TYR:HE1	1.74	0.51
44:JK:11:GLN:HB3	46:JK:501:GTP:O3A	2.11	0.51
44:JK:21:TRP:O	44:JK:25:CYS:N	2.36	0.51
44:JK:174:SER:HB2	44:JK:177:VAL:O	2.10	0.51
44:JM:64:ARG:NH1	44:JM:129:CYS:SG	2.83	0.51
45:JN:14:ASN:HD22	45:JN:73:MET:HE1	1.75	0.51
45:JN:55:THR:O	45:JN:57:GLY:N	2.43	0.51
45:JN:236:VAL:HG12	45:JN:250:LEU:CD2	2.40	0.51
45:KB:151:LEU:O	45:KB:155:VAL:HG13	2.09	0.51
45:KB:167:PHE:HA	45:KB:200:MET:HB2	1.93	0.51
45:KB:355:ASP:OD1	45:KB:356:ILE:HG12	2.09	0.51
45:KD:3:GLU:OE2	45:KD:127:CYS:HB2	2.10	0.51
45:KD:87:PRO:HD3	45:LD:281:TYR:CD1	2.40	0.51
45:KF:19:LYS:HE3	45:KF:226:ASN:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:175:VAL:HG22	45:KF:205:GLU:OE2	2.10	0.51
44:KG:212:ILE:HD11	44:KG:300:ASN:O	2.10	0.51
44:KI:56:THR:HG22	44:KI:60:LYS:O	2.10	0.51
44:KI:183:GLU:N	44:KI:184:PRO:HD2	2.25	0.51
44:KK:213:CYS:SG	44:KK:217:LEU:HD12	2.50	0.51
45:KL:186:THR:HG23	45:KL:187:LEU:CD1	2.27	0.51
45:KL:295:ASP:OD1	45:KL:296:ALA:N	2.43	0.51
45:KN:101:TRP:NE1	45:KN:146:GLY:HA2	2.26	0.51
45:KN:117:LEU:HD23	45:KN:121:ARG:HD3	1.91	0.51
45:KN:190:HIS:HB2	45:KN:415:MET:HE3	1.93	0.51
45:LB:314:SER:HB2	45:LB:350:LYS:HB3	1.92	0.51
44:LC:291:ILE:HG13	44:LC:292:THR:N	2.25	0.51
44:LC:315:CYS:SG	44:LC:379:SER:HB3	2.51	0.51
45:LD:9:GLY:O	45:LD:13:GLY:HA3	2.10	0.51
45:LD:11:GLN:HA	45:LD:14:ASN:OD1	2.11	0.51
45:LD:49:VAL:HG12	45:LD:50:TYR:CD2	2.46	0.51
45:LD:156:ARG:HG2	45:LD:164:MET:CE	2.39	0.51
45:LJ:143:THR:O	45:LJ:147:MET:N	2.38	0.51
44:LK:31:GLN:HG2	44:LK:35:GLN:O	2.10	0.51
45:LL:4:ILE:CG2	45:LL:131:GLN:HB3	2.40	0.51
45:LL:214:THR:O	45:LL:275:SER:HB3	2.11	0.51
45:LL:320:ARG:O	45:LL:320:ARG:HG3	2.10	0.51
44:MA:5:ILE:O	44:MA:135:PHE:HA	2.11	0.51
44:MA:209:ILE:CG2	44:MA:227:LEU:HD13	2.40	0.51
44:MC:241:SER:OG	44:MC:250:VAL:O	2.18	0.51
45:MD:51:TYR:HA	45:MD:60:VAL:O	2.10	0.51
45:MD:66:MET:HG3	45:MD:66:MET:O	2.11	0.51
45:MJ:34:GLY:CA	45:MJ:58:ARG:HG2	2.40	0.51
44:MK:88:HIS:ND1	44:MK:90:GLU:HG2	2.25	0.51
44:MK:154:LEU:CD1	44:MK:194:LEU:HD13	2.40	0.51
45:ML:180:VAL:O	45:ML:180:VAL:HG22	2.10	0.51
45:ML:244:GLY:HA2	45:ML:355:ASP:OD1	2.10	0.51
44:MM:209:ILE:HD11	44:MM:302:MET:CG	2.31	0.51
45:MN:21:TRP:O	45:MN:25:SER:N	2.31	0.51
45:MN:257:LEU:HA	45:MN:312:THR:HG21	1.92	0.51
44:NA:70:LEU:HD13	44:NA:110:ILE:CD1	2.41	0.51
44:NA:88:HIS:HD2	44:OA:283:HIS:O	1.92	0.51
45:NB:211:CYS:HA	45:NB:215:LEU:CB	2.28	0.51
45:NB:372:THR:HA	45:NB:422:TYR:CE1	2.44	0.51
44:NC:88:HIS:H	44:NC:91:GLN:NE2	2.08	0.51
45:ND:116:VAL:O	45:ND:120:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ND:286:VAL:CG2	45:ND:325:GLU:HG3	2.40	0.51
44:NE:384:ILE:O	44:NE:387:VAL:HG22	2.10	0.51
44:NG:134:GLY:HA2	44:NG:165:SER:O	2.10	0.51
44:NG:222:PRO:HD2	45:NH:324:LYS:CD	2.41	0.51
44:NG:311:LYS:H	44:NG:382:THR:HB	1.74	0.51
45:NH:25:SER:OG	45:NH:30:ILE:HB	2.09	0.51
45:NH:117:LEU:HD11	45:NH:154:LYS:NZ	2.25	0.51
45:NH:318:ARG:HB2	45:NH:354:CYS:HB3	1.91	0.51
45:NJ:5:VAL:HG22	45:NJ:6:HIS:H	1.74	0.51
45:NJ:231:ALA:O	45:NJ:234:SER:OG	2.23	0.51
44:NK:177:VAL:CG1	45:NL:331:LEU:HD22	2.35	0.51
45:NL:28:HIS:HB3	45:NL:47:ILE:HD13	1.92	0.51
44:NM:26:LEU:HD23	44:NM:363:VAL:HA	1.91	0.51
44:NM:394:LYS:HG2	44:NM:397:LEU:HD12	1.93	0.51
45:NN:117:LEU:CB	45:NN:121:ARG:HH12	2.19	0.51
44:OA:88:HIS:ND1	44:OA:90:GLU:HG3	2.25	0.51
44:OA:195:LEU:CD1	44:OA:428:LEU:HD22	2.39	0.51
44:OE:236:SER:OG	44:OE:320:ARG:NH1	2.36	0.51
45:OF:200:MET:CE	45:OF:266:PHE:HB2	2.39	0.51
45:OF:238:CYS:HA	45:OF:241:ARG:NH1	2.25	0.51
44:OG:208:ALA:H	44:OG:304:LYS:HZ1	1.57	0.51
44:OG:282:TYR:HD2	44:OG:283:HIS:HD2	1.59	0.51
44:OG:407:TRP:HH2	45:OH:254:ALA:HB1	1.75	0.51
45:OH:159:TYR:CB	45:OH:162:ARG:HD3	2.25	0.51
44:OI:12:GLY:O	44:OI:16:VAL:HG13	2.09	0.51
45:OJ:26:ASP:OD1	45:OJ:27:GLU:N	2.43	0.51
45:OJ:72:THR:O	45:OJ:75:SER:OG	2.17	0.51
45:OJ:267:MET:CE	45:OJ:299:MET:HG2	2.40	0.51
44:OK:67:PHE:HB2	44:OK:92:LEU:HD23	1.93	0.51
44:OK:323:VAL:HG22	44:OK:373:ARG:CD	2.41	0.51
45:OL:6:HIS:HB3	45:OL:63:ALA:HB2	1.91	0.51
45:OL:306:ARG:HD3	45:OL:340:TYR:CE2	2.44	0.51
44:OM:105:ARG:HH12	45:ON:251:ARG:NH1	2.08	0.51
44:OM:203:MET:HA	44:OM:203:MET:CE	2.39	0.51
44:OM:319:TYR:HB2	44:OM:354:GLY:O	2.10	0.51
45:ON:329:GLN:HA	45:ON:332:ASN:ND2	2.25	0.51
44:PA:261:PRO:HG2	44:PA:313:MET:CE	2.40	0.51
44:PA:326:LYS:HD2	44:PA:327:ASP:N	2.25	0.51
44:PA:407:TRP:CZ3	45:PB:255:VAL:HA	2.45	0.51
44:PC:69:ASP:OD1	44:PC:70:LEU:N	2.43	0.51
45:PD:143:THR:HG23	45:PD:144:GLY:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:102:ALA:HB2	45:PF:398:TYR:HA	1.91	0.51
45:PF:417:ASP:OD1	45:PF:421:GLU:HG3	2.10	0.51
44:PG:1:MET:HE1	45:PJ:94:GLN:HB3	1.91	0.51
44:PG:102:ASN:HB3	44:PG:105:ARG:HG3	1.91	0.51
44:PG:183:GLU:HG2	44:PG:184:PRO:CD	2.39	0.51
44:PG:258:ASN:HD21	44:PG:352:LYS:HB3	1.74	0.51
45:PH:178:THR:CG2	45:PH:181:GLU:HG3	2.39	0.51
45:PJ:53:GLU:O	45:QH:283:ALA:HB2	2.10	0.51
45:PJ:86:ARG:HH21	45:PJ:87:PRO:HD2	1.74	0.51
45:PJ:242:PHE:CD2	45:PJ:356:ILE:HG13	2.45	0.51
44:PK:251:ASP:HB2	44:PK:253:THR:HG22	1.91	0.51
44:QA:14:ILE:HG22	44:QA:18:ASN:ND2	2.25	0.51
44:QA:188:ILE:HG13	44:QA:421:ALA:HB1	1.91	0.51
44:QA:223:THR:HG22	44:QA:226:ASN:OD1	2.11	0.51
44:QA:259:LEU:HD13	44:QA:268:MET:SD	2.50	0.51
44:QA:439:THR:HB	45:QB:391:ARG:HD3	1.91	0.51
45:QB:304:ASP:CG	45:QB:306:ARG:HG2	2.31	0.51
44:QC:275:ILE:CG2	44:QC:368:LEU:HD11	2.31	0.51
45:QD:216:LYS:CG	45:QD:275:SER:HB3	2.41	0.51
44:QE:306:ASP:OD2	44:QE:309:HIS:NE2	2.43	0.51
45:QF:173:PRO:HG3	45:QF:380:ARG:HD3	1.91	0.51
45:QF:300:MET:HE2	45:QF:300:MET:HA	1.91	0.51
44:QG:257:THR:HG22	45:QH:397:TRP:CE2	2.45	0.51
45:QH:51:TYR:CE1	45:QH:61:PRO:HG3	2.45	0.51
44:QI:71:GLU:OE1	44:QI:73:THR:HB	2.10	0.51
44:QI:313:MET:HE2	44:QI:380:ASN:O	2.10	0.51
44:QI:385:ALA:HA	44:QI:388:PHE:HD2	1.75	0.51
45:QL:313:ALA:CB	45:QL:349:ILE:HA	2.35	0.51
44:QM:88:HIS:CE1	44:RM:280:LYS:HD2	2.44	0.51
44:QM:316:SER:CA	44:QM:352:LYS:HB3	2.39	0.51
45:QN:7:ILE:HG23	45:QN:66:MET:HE3	1.90	0.51
45:QN:105:HIS:NE2	45:QN:150:LEU:HB2	2.24	0.51
45:RB:60:VAL:CG2	45:RB:61:PRO:HD2	2.39	0.51
45:RB:246:LEU:CD2	46:RC:501:GTP:H5''	2.40	0.51
44:RC:69:ASP:OD2	44:RC:74:VAL:HG21	2.10	0.51
45:RD:375:GLN:NE2	45:RD:379:LYS:HG3	2.15	0.51
45:RF:344:TRP:CE3	45:RF:345:ILE:HB	2.45	0.51
45:RH:182:PRO:HB2	45:RH:388:MET:HE1	1.92	0.51
45:RH:325:GLU:HG3	45:RH:328:GLU:OE2	2.10	0.51
44:RI:352:LYS:HD3	45:RJ:178:THR:HG23	1.92	0.51
45:RJ:133:PHE:O	45:RJ:164:MET:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:22:GLU:HG3	44:RM:83:TYR:OH	2.10	0.51
44:RM:141:VAL:CG1	44:RM:172:TYR:HD1	2.20	0.51
44:RM:261:PRO:HA	45:RN:394:PHE:CD2	2.45	0.51
45:RN:6:HIS:HB3	45:RN:63:ALA:HB2	1.91	0.51
45:RN:141:GLY:HA3	48:RN:501:GDP:PB	2.50	0.51
44:SA:51:THR:HG21	44:SA:243:ARG:HB3	1.92	0.51
45:SB:173:PRO:HA	45:SB:380:ARG:NH1	2.25	0.51
45:SB:317:PHE:HD2	45:SB:326:VAL:HG22	1.75	0.51
45:SD:163:ILE:HG21	45:SD:251:ARG:CD	2.40	0.51
45:SD:170:VAL:HG23	45:SD:171:PRO:HD2	1.92	0.51
45:SD:317:PHE:HE2	45:SD:326:VAL:HG13	1.75	0.51
44:SE:195:LEU:C	44:SE:266:HIS:HE2	2.13	0.51
44:SE:288:VAL:CA	44:SE:291:ILE:HG12	2.34	0.51
45:SF:246:LEU:HA	44:SG:11:GLN:NE2	2.25	0.51
44:SG:238:LEU:HD23	44:SG:238:LEU:O	2.10	0.51
44:SG:358:GLN:CD	44:SG:359:PRO:HD2	2.30	0.51
45:SH:286:VAL:HB	45:SH:325:GLU:OE1	2.11	0.51
45:SH:289:LEU:HB3	45:SH:365:VAL:CG1	2.39	0.51
44:SI:91:GLN:CA	44:SI:121:ARG:HH12	2.23	0.51
45:SJ:267:MET:HE1	45:SJ:373:ALA:HB3	1.92	0.51
44:SK:255:PHE:O	44:SK:259:LEU:N	2.42	0.51
44:SK:326:LYS:NZ	45:SL:219:THR:HA	2.25	0.51
45:SL:49:VAL:C	45:SL:62:ARG:HH12	2.13	0.51
44:SM:212:ILE:HD13	44:SM:215:ARG:NH2	2.25	0.51
44:SM:295:ALA:HB1	44:SM:377:MET:HE1	1.92	0.51
44:TA:90:GLU:O	44:TA:93:ILE:HD11	2.10	0.51
44:TA:115:VAL:HG22	44:TA:119:LEU:CD2	2.40	0.51
44:TC:182:VAL:O	44:TC:182:VAL:HG22	2.10	0.51
44:TC:257:THR:HG22	45:TD:397:TRP:CD2	2.46	0.51
45:TD:152:ILE:HA	45:TD:155:VAL:HB	1.91	0.51
44:TE:23:LEU:O	44:TE:26:LEU:HG	2.10	0.51
44:TE:223:THR:HG22	44:TE:226:ASN:OD1	2.10	0.51
45:TF:42:LEU:HB3	45:TF:242:PHE:HE1	1.74	0.51
44:TG:237:SER:HA	44:TG:320:ARG:NH2	2.25	0.51
45:TH:23:VAL:HG21	45:TH:230:SER:CB	2.40	0.51
45:TH:287:PRO:HA	45:TH:290:THR:HG22	1.92	0.51
45:TJ:22:GLU:HG2	45:TJ:81:PHE:HD1	1.73	0.51
44:TK:319:TYR:HB2	44:TK:354:GLY:O	2.10	0.51
45:TL:183:TYR:HB3	45:TL:398:TYR:CZ	2.45	0.51
44:TM:215:ARG:HG2	44:TM:216:ASN:ND2	2.26	0.51
44:TM:313:MET:HE2	44:TM:344:VAL:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:258:ILE:HB	44:UC:407:TRP:CZ2	2.44	0.51
45:UB:329:GLN:O	45:UB:333:VAL:HG23	2.10	0.51
45:UD:113:ILE:CD1	45:UD:150:LEU:HD13	2.37	0.51
45:UD:323:THR:HG21	44:UE:224:TYR:CE2	2.45	0.51
45:UF:27:GLU:HA	45:UF:359:LYS:CD	2.41	0.51
45:UH:256:ASN:HD22	45:UH:350:LYS:CE	2.23	0.51
45:UJ:4:ILE:HG22	45:UJ:132:GLY:H	1.74	0.51
45:UJ:167:PHE:CD2	45:UJ:200:MET:HG2	2.45	0.51
44:UK:104:ALA:O	44:UK:108:TYR:N	2.43	0.51
44:UK:288:VAL:HA	44:UK:291:ILE:HG12	1.91	0.51
45:UL:315:ALA:O	45:UL:352:SER:N	2.43	0.51
44:UM:217:LEU:HD11	44:UM:275:ILE:HG22	1.91	0.51
44:UM:318:MET:SD	44:UM:318:MET:N	2.79	0.51
45:UN:97:ALA:HB3	45:UN:143:THR:N	2.25	0.51
44:VA:6:SER:OG	44:VA:65:ALA:HA	2.10	0.51
44:VA:320:ARG:CD	44:VA:360:PRO:HG3	2.41	0.51
44:VC:136:LEU:CD2	44:VC:167:LEU:HB2	2.40	0.51
44:VC:415:GLU:HA	44:VC:418:PHE:HD2	1.74	0.51
45:VD:423:GLN:OE1	45:VD:423:GLN:HA	2.10	0.51
44:VE:312:TYR:CE1	44:VE:379:SER:HB2	2.45	0.51
44:VE:326:LYS:HD3	45:VH:212:PHE:HZ	1.76	0.51
45:VF:61:PRO:CD	45:VF:84:LEU:HB3	2.39	0.51
45:VF:286:VAL:CG1	45:VF:325:GLU:HG2	2.37	0.51
44:VG:124:LYS:NZ	44:WG:290:GLU:HB2	2.26	0.51
44:VG:247:ALA:H	44:VG:357:TYR:HE1	1.58	0.51
44:VG:313:MET:HA	44:VG:344:VAL:CG1	2.39	0.51
45:VH:305:PRO:HB2	45:VH:310:TYR:OH	2.09	0.51
45:VJ:290:THR:O	45:VJ:293:MET:HB3	2.11	0.51
45:VL:258:ILE:HD11	45:VL:266:PHE:CZ	2.45	0.51
45:VL:316:LEU:HG	45:VL:352:SER:CB	2.40	0.51
44:WC:12:GLY:O	44:WC:16:VAL:N	2.25	0.51
44:WC:73:THR:O	44:WC:76:ASP:HB2	2.10	0.51
44:WC:406:HIS:CD2	45:WD:261:PRO:HD3	2.44	0.51
45:WD:117:LEU:HD21	45:WD:121:ARG:HH12	1.76	0.51
44:WE:12:GLY:O	44:WE:16:VAL:HG13	2.11	0.51
44:WE:20:CYS:HA	44:WE:232:ALA:HB1	1.92	0.51
44:WE:247:ALA:HB1	45:WH:222:TYR:HD2	1.75	0.51
44:WE:251:ASP:O	44:WE:254:GLU:N	2.40	0.51
44:WE:251:ASP:HB2	44:WE:254:GLU:HG3	1.93	0.51
44:WE:285:GLN:NE2	44:WE:287:SER:HB2	2.25	0.51
45:WF:135:ILE:CG1	45:WF:152:ILE:HD11	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:147:SER:HB2	44:WI:190:SER:HB3	1.93	0.51
45:WJ:139:LEU:HD13	45:WJ:168:SER:HB3	1.92	0.51
45:WJ:187:LEU:HD11	45:WJ:408:PHE:CZ	2.45	0.51
45:WJ:251:ARG:HA	45:WJ:254:ALA:HB3	1.91	0.51
45:WJ:276:ARG:NE	45:WJ:276:ARG:HA	2.24	0.51
45:WL:86:ARG:HB3	45:WL:89:ASN:CG	2.30	0.51
44:WM:214:ARG:HH11	44:WM:218:ASP:C	2.14	0.51
44:WM:311:LYS:O	44:WM:381:SER:HA	2.10	0.51
45:WN:163:ILE:HD13	45:WN:251:ARG:CG	2.38	0.51
8:OG:86:LEU:HB2	45:JN:359:LYS:CE	2.39	0.51
15:OV:86:ARG:HH22	45:LN:414:ASN:HD22	1.57	0.51
17:1B:1:MET:HG3	45:LD:359:LYS:CA	2.32	0.51
4:1C:52:MET:O	44:EM:221:ARG:N	2.43	0.51
20:1J:142:VAL:HB	44:IE:285:GLN:CG	2.39	0.51
22:1L:285:ARG:HD2	45:BH:362:LYS:HB3	1.92	0.51
23:1M:290:GLU:OE1	40:6F:55:THR:HG22	2.10	0.51
13:1T:223:ARG:HH21	44:MC:196:GLU:HG3	1.74	0.51
14:1U:181:LYS:HE2	44:VC:59:GLY:HA2	1.91	0.51
27:1W:189:ARG:NE	44:LA:45:GLY:H	2.07	0.51
2:2A:138:TRP:CH2	44:AI:81:GLY:HA2	2.45	0.51
32:3I:228:ARG:NH1	45:GL:296:ALA:HB3	2.24	0.51
32:3I:287:ARG:NH2	44:FG:41:THR:HA	2.24	0.51
26:3R:114:SER:CB	45:BN:360:GLY:HA3	2.41	0.51
12:3S:20:ASN:CB	45:WN:77:ARG:HH22	2.24	0.51
37:5D:26:LYS:C	45:KN:395:LEU:HB2	2.30	0.51
37:5D:26:LYS:HA	45:KN:395:LEU:HB2	1.91	0.51
37:5D:110:ARG:HB2	44:NM:280:LYS:CA	2.41	0.51
38:5G:81:MET:CE	38:5G:100:VAL:HG21	2.41	0.51
38:5H:29:LYS:CE	38:5H:30:PRO:HD2	2.35	0.51
38:5H:77:LYS:HG3	38:5H:81:MET:CE	2.38	0.51
39:5I:103:GLN:HE22	45:JD:390:ARG:NH1	2.08	0.51
35:5R:315:MET:HG3	35:5R:316:THR:N	2.25	0.51
40:6F:138:TYR:O	40:6F:141:THR:HG23	2.10	0.51
41:6G:187:ILE:HD11	44:VE:299:ALA:HB3	1.92	0.51
11:6Q:14:LEU:HB3	11:6Q:165:ILE:HD12	1.93	0.51
11:6Q:41:ASP:O	11:6Q:186:PRO:HB3	2.11	0.51
11:6Q:116:PRO:HA	11:6Q:144:TYR:HE2	1.74	0.51
35:6R:20:HIS:CE1	44:LK:357:TYR:CZ	2.98	0.51
35:6R:33:LEU:HD22	45:LN:94:GLN:CG	2.40	0.51
35:6R:323:LEU:CD2	45:CN:279:GLN:OE1	2.58	0.51
35:7R:30:GLN:NE2	45:LB:74:ASP:OD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:80:ARG:HH21	44:MA:31:GLN:HB2	1.74	0.51
35:7R:255:VAL:C	35:7R:256:LEU:HD23	2.30	0.51
35:7R:255:VAL:HG12	35:7R:279:PHE:CD2	2.45	0.51
35:7R:455:VAL:HG12	35:7R:470:PHE:HB3	1.92	0.51
44:AA:5:ILE:O	44:AA:135:PHE:HA	2.11	0.51
45:AB:8:GLN:HB2	45:AB:13:GLY:O	2.10	0.51
44:AC:7:ILE:CD1	44:AC:66:VAL:HG12	2.41	0.51
44:AC:245:ASP:OD1	44:AC:246:GLY:N	2.44	0.51
45:AD:8:GLN:O	45:AD:66:MET:HG2	2.11	0.51
45:AD:141:GLY:HA3	48:AD:501:GDP:O3A	2.09	0.51
44:AG:103:PHE:H	44:AG:408:TYR:HE2	1.58	0.51
45:AH:317:PHE:CD1	45:AH:365:VAL:HG22	2.45	0.51
45:AH:391:ARG:NE	45:AH:391:ARG:HA	2.25	0.51
44:AI:388:PHE:O	44:AI:392:ASP:N	2.43	0.51
45:AL:174:LYS:HE3	45:AL:175:VAL:HG13	1.91	0.51
44:AM:320:ARG:HD2	44:AM:360:PRO:HG3	1.91	0.51
44:BA:273:ALA:HB1	44:BA:274:PRO:HA	1.92	0.51
44:BC:63:PRO:CG	44:BC:86:LEU:HG	2.40	0.51
44:BC:258:ASN:OD1	45:BF:179:VAL:HG22	2.09	0.51
44:BE:2:ARG:HG2	44:BE:133:GLN:HG3	1.92	0.51
45:BF:180:VAL:HG22	45:BF:180:VAL:O	2.11	0.51
44:BG:229:ARG:CD	44:BG:363:VAL:HG11	2.40	0.51
45:BH:42:LEU:HA	45:BH:45:GLU:HG3	1.93	0.51
45:BH:86:ARG:HG2	45:BH:89:ASN:H	1.76	0.51
45:BH:202:ILE:HD13	45:BH:229:VAL:HG22	1.93	0.51
45:BJ:2:ARG:NH2	45:BJ:240:LEU:HD12	2.24	0.51
45:BJ:217:LEU:HD11	45:BJ:220:PRO:HB3	1.92	0.51
45:BL:372:THR:HA	45:BL:422:TYR:HE2	1.74	0.51
44:BM:210:TYR:HD1	45:BN:324:LYS:HG2	1.74	0.51
44:BM:408:TYR:HB3	44:BM:413:MET:CE	2.40	0.51
44:CA:175:PRO:HB3	44:CA:390:ARG:HD3	1.93	0.51
45:CD:152:ILE:HG23	45:CD:164:MET:SD	2.50	0.51
44:CE:250:VAL:HG12	44:CE:255:PHE:HE1	1.73	0.51
45:CF:251:ARG:O	45:CF:255:VAL:HG23	2.10	0.51
44:CG:200:VAL:HG21	44:CG:256:GLN:HB3	1.92	0.51
44:CG:378:ILE:HG23	44:CG:378:ILE:O	2.09	0.51
45:CH:86:ARG:HD2	45:DH:281:TYR:HB3	1.92	0.51
44:CI:1:MET:HE2	45:CJ:94:GLN:HG2	1.92	0.51
44:CI:265:ILE:HG23	44:CI:432:TYR:CE1	2.45	0.51
44:CI:273:ALA:HB1	44:CI:274:PRO:HA	1.91	0.51
45:CL:69:GLU:OE2	45:CL:70:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:168:SER:CB	45:CL:201:VAL:HG12	2.34	0.51
44:CM:31:GLN:CG	44:CM:37:PRO:HD3	2.39	0.51
44:CM:316:SER:HB3	44:CM:378:ILE:HB	1.93	0.51
45:CN:25:SER:CA	45:CN:30:ILE:HB	2.39	0.51
45:DB:41:ASP:OD1	45:DB:42:LEU:HD12	2.10	0.51
45:DB:117:LEU:HD22	45:DB:154:LYS:HZ1	1.76	0.51
44:DC:99:ALA:CB	44:DC:145:THR:HB	2.40	0.51
44:DC:208:ALA:HB2	44:DC:304:LYS:N	2.25	0.51
44:DE:103:PHE:CE2	44:DE:189:LEU:HB3	2.46	0.51
44:DE:320:ARG:HA	44:DE:356:ASN:HB3	1.92	0.51
44:DE:427:ALA:O	44:DE:431:ASP:N	2.39	0.51
45:DF:145:SER:O	45:DF:149:THR:HG23	2.11	0.51
45:DF:257:LEU:HD21	45:DF:368:VAL:HG13	1.91	0.51
44:DG:173:PRO:HG2	44:DG:183:GLU:HB2	1.91	0.51
44:DG:317:MET:CE	44:DG:319:TYR:HE1	2.22	0.51
45:DH:143:THR:HG23	45:DH:144:GLY:N	2.26	0.51
44:DI:69:ASP:OD2	44:DI:74:VAL:HG21	2.10	0.51
44:DI:174:SER:HB3	44:DI:207:GLU:HB2	1.91	0.51
44:DI:202:VAL:HA	44:DI:268:MET:O	2.10	0.51
45:DJ:238:CYS:HB2	45:DJ:318:ARG:NH2	2.24	0.51
45:DJ:274:THR:OG1	45:DJ:278:SER:OG	2.25	0.51
44:DK:91:GLN:HG3	44:DK:92:LEU:CD1	2.35	0.51
44:DK:192:HIS:O	44:DK:195:LEU:HG	2.10	0.51
44:DK:229:ARG:NH1	44:DK:363:VAL:HG21	2.26	0.51
45:DL:18:ALA:O	45:DL:22:GLU:HG3	2.11	0.51
44:DM:317:MET:O	44:DM:353:VAL:HA	2.09	0.51
45:DN:19:LYS:O	45:DN:23:VAL:HG23	2.11	0.51
45:DN:105:HIS:CD2	45:DN:150:LEU:HB2	2.45	0.51
44:EA:291:ILE:HG13	44:EA:292:THR:N	2.26	0.51
45:EB:66:MET:CB	45:EB:116:VAL:HG21	2.39	0.51
45:EB:325:GLU:H	44:EC:221:ARG:NH1	2.07	0.51
44:EC:13:GLY:HA2	44:EC:16:VAL:HG12	1.92	0.51
44:EC:114:ILE:HG23	44:EC:115:VAL:N	2.25	0.51
44:EC:270:SER:HB3	44:EC:378:ILE:CD1	2.38	0.51
44:EC:317:MET:HA	44:EC:376:CYS:O	2.11	0.51
44:EE:421:ALA:O	44:EE:425:LEU:HD23	2.09	0.51
45:EF:178:THR:HB	45:EF:181:GLU:CG	2.26	0.51
45:EF:257:LEU:HD11	45:EF:314:SER:HB3	1.93	0.51
44:EG:351:PHE:O	45:EH:179:VAL:HG13	2.10	0.51
45:EH:330:MET:SD	45:EH:349:ILE:HD13	2.51	0.51
44:EI:34:GLY:HA3	44:EI:60:LYS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:111:GLY:HA2	44:EI:149:LEU:HD21	1.92	0.51
44:EI:195:LEU:HA	44:EI:266:HIS:NE2	2.24	0.51
44:EI:321:GLY:N	44:EI:356:ASN:O	2.39	0.51
45:EJ:46:ARG:HB2	45:EJ:46:ARG:CZ	2.40	0.51
45:EJ:101:TRP:CZ3	45:EJ:187:LEU:HD13	2.46	0.51
44:EM:12:GLY:HA2	46:EM:501:GTP:N7	2.25	0.51
44:FA:190:SER:HA	44:FA:193:SER:HB3	1.91	0.51
44:FA:297:GLU:OE2	44:FA:300:ASN:N	2.43	0.51
45:FD:220:PRO:HA	45:FD:224:ASP:OD2	2.11	0.51
44:FE:22:GLU:HG3	44:FE:83:TYR:CE2	2.44	0.51
44:FE:286:LEU:HD23	44:FE:371:VAL:CG2	2.33	0.51
45:FF:310:TYR:CD1	45:FF:371:SER:HB2	2.46	0.51
45:FH:330:MET:CE	45:FH:349:ILE:HG21	2.41	0.51
45:FJ:54:ALA:HA	45:GJ:283:ALA:CB	2.26	0.51
45:FJ:105:HIS:HD1	45:FJ:106:TYR:HD1	1.58	0.51
45:FJ:257:LEU:HA	45:FJ:312:THR:CG2	2.28	0.51
44:FK:317:MET:O	44:FK:353:VAL:HA	2.10	0.51
45:FL:101:TRP:CE3	45:FL:187:LEU:HB3	2.46	0.51
44:FM:313:MET:HG3	44:FM:346:TRP:HH2	1.75	0.51
44:FM:321:GLY:O	44:FM:357:TYR:HA	2.09	0.51
45:GB:272:PRO:CD	45:GB:289:LEU:HD11	2.40	0.51
44:GC:14:ILE:HD13	44:GC:74:VAL:CG2	2.39	0.51
44:GE:172:TYR:HB3	44:GE:173:PRO:HD3	1.92	0.51
44:GE:385:ALA:HB2	44:GE:432:TYR:CD2	2.45	0.51
45:GF:263:LEU:HG	45:GF:422:TYR:CD1	2.45	0.51
45:GH:377:MET:HA	45:GH:380:ARG:CG	2.40	0.51
44:GI:175:PRO:N	44:GI:304:LYS:HZ3	2.08	0.51
44:GI:372:MET:HE2	44:GI:372:MET:HA	1.92	0.51
45:GL:283:ALA:O	45:GL:288:GLU:HG3	2.10	0.51
44:GM:30:ILE:HG12	44:GM:36:MET:CE	2.40	0.51
44:GM:135:PHE:HB2	44:GM:166:LYS:HD3	1.92	0.51
44:GM:176:GLN:NE2	45:GN:331:LEU:HD13	2.24	0.51
45:GN:286:VAL:HB	45:GN:287:PRO:HD3	1.92	0.51
45:GN:377:MET:O	45:GN:381:VAL:HG23	2.10	0.51
45:HB:42:LEU:O	45:HB:45:GLU:HG3	2.10	0.51
45:HB:252:LYS:HG2	45:HB:350:LYS:NZ	2.25	0.51
45:HB:374:ILE:HG13	45:HB:375:GLN:N	2.26	0.51
44:HI:8:HIS:HB3	44:HI:13:GLY:C	2.30	0.51
44:HK:30:ILE:HA	44:HK:36:MET:SD	2.51	0.51
44:HK:111:GLY:HA2	44:HK:114:ILE:HG22	1.93	0.51
44:HM:103:PHE:H	44:HM:408:TYR:HE2	1.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:141:VAL:HG12	44:IA:172:TYR:HA	1.92	0.51
44:IA:155:GLU:HA	44:IA:197:HIS:CE1	2.45	0.51
44:IC:93:ILE:HD12	44:IC:93:ILE:H	1.75	0.51
45:ID:388:MET:HE3	45:ID:394:PHE:CD2	2.43	0.51
45:IH:101:TRP:NE1	45:IH:105:HIS:HB2	2.26	0.51
45:IH:170:VAL:CG2	45:IH:171:PRO:HD2	2.40	0.51
45:IH:352:SER:C	45:IH:353:ILE:HD12	2.31	0.51
44:II:154:LEU:CD1	44:II:194:LEU:HD22	2.38	0.51
45:IJ:133:PHE:HE2	45:IJ:155:VAL:HG11	1.74	0.51
44:IK:22:GLU:N	44:IK:22:GLU:OE1	2.42	0.51
44:IK:153:LEU:O	44:IK:157:LEU:HD23	2.10	0.51
44:IK:386:GLU:O	44:IK:390:ARG:HG2	2.10	0.51
44:IM:53:PHE:HE1	44:IM:63:PRO:HG3	1.74	0.51
44:IM:102:ASN:CG	44:IM:105:ARG:HG3	2.30	0.51
45:IN:162:ARG:NE	45:IN:162:ARG:HA	2.26	0.51
44:JA:138:PHE:CD1	44:JA:169:PHE:HB2	2.46	0.51
44:JC:3:GLU:HB2	44:JC:129:CYS:SG	2.50	0.51
44:JC:52:PHE:CZ	44:JC:239:THR:HG21	2.46	0.51
44:JC:172:TYR:HB3	44:JC:173:PRO:HD2	1.92	0.51
44:JE:26:LEU:CD2	44:JE:363:VAL:HA	2.40	0.51
44:JE:260:VAL:CG2	45:JH:397:TRP:HZ2	2.22	0.51
45:JF:91:VAL:HG11	45:JF:116:VAL:CA	2.40	0.51
45:JF:266:PHE:CD1	45:JF:370:ASN:HB2	2.45	0.51
45:JH:378:PHE:HB3	45:JH:415:MET:CE	2.41	0.51
44:JI:167:LEU:CD2	44:JI:200:VAL:HB	2.41	0.51
44:JI:345:ASP:OD1	44:JI:346:TRP:N	2.43	0.51
45:JJ:213:ARG:NH2	45:JJ:297:LYS:HB3	2.25	0.51
44:JK:13:GLY:O	44:JK:16:VAL:HG12	2.09	0.51
44:JK:14:ILE:HG23	44:JK:15:GLN:N	2.25	0.51
45:JL:201:VAL:HG23	45:JL:301:CYS:SG	2.50	0.51
44:JM:414:GLU:CB	44:JM:417:GLU:HG2	2.37	0.51
44:KA:177:VAL:HG12	44:KA:207:GLU:OE2	2.11	0.51
45:KB:101:TRP:CD1	45:KB:146:GLY:HA2	2.46	0.51
45:KB:371:SER:O	45:KB:374:ILE:HG22	2.10	0.51
44:KE:3:GLU:HG3	44:KE:50:ASN:O	2.10	0.51
44:KG:291:ILE:HG13	44:KG:292:THR:N	2.25	0.51
45:KH:360:GLY:C	45:KH:361:LEU:HD23	2.30	0.51
45:KJ:20:PHE:O	45:KJ:23:VAL:HG12	2.11	0.51
45:KJ:284:LEU:HD22	45:KJ:289:LEU:HD21	1.92	0.51
45:KL:139:LEU:HD22	45:KL:170:VAL:HG12	1.93	0.51
44:KM:132:LEU:HD23	44:KM:134:GLY:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:4:ILE:HD11	45:KN:50:TYR:CZ	2.45	0.51
45:KN:36:TYR:CE2	45:KN:44:LEU:HB2	2.45	0.51
45:KN:200:MET:HE3	45:KN:266:PHE:HD2	1.74	0.51
44:LA:7:ILE:HD13	44:LA:66:VAL:CG2	2.41	0.51
45:LB:235:GLY:O	45:LB:316:LEU:HD23	2.10	0.51
45:LB:344:TRP:HE3	45:LB:345:ILE:HG23	1.74	0.51
44:LC:91:GLN:HG3	44:LC:92:LEU:HD12	1.90	0.51
44:LC:181:VAL:HG12	45:LD:256:ASN:OD1	2.10	0.51
44:LE:55:GLU:HA	44:LE:57:GLY:O	2.11	0.51
45:LF:103:LYS:O	45:LF:108:GLU:HB3	2.10	0.51
44:LG:401:LYS:HE2	45:LH:344:TRP:CE2	2.45	0.51
45:LH:170:VAL:CG2	45:LH:171:PRO:HD2	2.40	0.51
45:LH:310:TYR:O	45:LH:342:VAL:HG23	2.11	0.51
44:LI:183:GLU:HG2	44:LI:184:PRO:HD3	1.93	0.51
45:LL:6:HIS:HD2	45:LL:8:GLN:OE1	1.93	0.51
45:LL:130:LEU:HD12	45:LL:131:GLN:H	1.75	0.51
45:LL:314:SER:HB3	45:LL:368:VAL:HG13	1.93	0.51
44:LM:317:MET:O	44:LM:353:VAL:HA	2.11	0.51
45:MB:293:MET:SD	45:MB:367:PHE:HB2	2.50	0.51
44:MG:141:VAL:HG12	44:MG:141:VAL:O	2.10	0.51
44:MG:256:GLN:HB3	45:MJ:397:TRP:CH2	2.46	0.51
44:MG:298:PRO:HG3	44:MG:308:ARG:NH1	2.24	0.51
45:MH:101:TRP:CZ3	45:MH:187:LEU:HB3	2.46	0.51
44:MI:136:LEU:CD2	44:MI:167:LEU:HB2	2.39	0.51
45:MJ:173:PRO:CG	45:MJ:380:ARG:HH11	2.23	0.51
45:MJ:234:SER:O	45:MJ:238:CYS:HB3	2.11	0.51
45:ML:321:MET:SD	45:ML:353:ILE:HG23	2.49	0.51
45:MN:148:GLY:O	45:MN:152:ILE:HG12	2.10	0.51
45:MN:402:GLY:O	45:MN:403:MET:HE2	2.10	0.51
44:NA:109:THR:HG21	44:NA:411:GLU:HG2	1.93	0.51
45:NB:22:GLU:HG2	45:NB:81:PHE:CE2	2.45	0.51
45:NB:117:LEU:HA	45:NB:120:VAL:CG1	2.40	0.51
45:NB:330:MET:SD	45:NB:349:ILE:HG21	2.51	0.51
44:NE:209:ILE:CG1	44:NE:302:MET:HE3	2.39	0.51
45:NF:294:PHE:HD1	45:NF:333:VAL:HG21	1.76	0.51
44:NG:287:SER:HB3	44:NG:290:GLU:CG	2.35	0.51
45:NH:21:TRP:CZ3	45:NH:61:PRO:HB3	2.46	0.51
45:NL:44:LEU:HD22	45:NL:59:TYR:OH	2.11	0.51
45:NL:308:GLY:HA3	45:NL:372:THR:OG1	2.10	0.51
44:NM:281:ALA:O	44:NM:283:HIS:N	2.42	0.51
45:NN:137:HIS:O	45:NN:168:SER:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:287:PRO:O	45:NN:290:THR:HG22	2.10	0.51
45:OB:344:TRP:HE3	45:OB:345:ILE:HG23	1.74	0.51
45:OB:410:GLU:HA	45:OB:413:SER:OG	2.09	0.51
44:OC:55:GLU:CD	44:OC:57:GLY:H	2.13	0.51
45:OD:183:TYR:OH	45:OD:388:MET:HB3	2.10	0.51
45:OD:200:MET:HA	45:OD:266:PHE:O	2.10	0.51
44:OE:181:VAL:CG1	45:OF:256:ASN:HD22	2.24	0.51
44:OE:206:ASN:O	44:OE:210:TYR:HB2	2.11	0.51
44:OG:100:ALA:HA	45:OH:252:LYS:CG	2.37	0.51
44:OG:229:ARG:HH11	44:OG:363:VAL:HG11	1.75	0.51
44:OG:251:ASP:HB2	44:OG:254:GLU:OE1	2.10	0.51
45:OH:392:LYS:HG2	45:OH:395:LEU:HD23	1.91	0.51
44:OI:13:GLY:CA	44:OI:16:VAL:HG22	2.41	0.51
44:OI:276:ILE:HG21	44:OI:281:ALA:HA	1.92	0.51
45:OJ:9:GLY:CA	45:OJ:66:MET:HE3	2.40	0.51
44:OK:156:ARG:O	44:OK:159:VAL:HG22	2.11	0.51
44:OK:210:TYR:CE1	44:OK:227:LEU:HD21	2.44	0.51
44:OK:288:VAL:CG1	44:OK:327:ASP:HB3	2.28	0.51
44:OK:434:GLU:OE2	45:ON:391:ARG:NH2	2.44	0.51
45:OL:221:THR:O	45:OL:225:LEU:HD12	2.10	0.51
44:OM:23:LEU:CB	44:OM:232:ALA:HB1	2.40	0.51
44:PA:71:GLU:CB	44:PA:98:ASP:HB2	2.39	0.51
44:PA:363:VAL:HG23	44:PA:364:PRO:HD2	1.93	0.51
45:PB:21:TRP:CA	45:PB:24:ILE:HG22	2.39	0.51
44:PC:82:THR:HG23	44:PC:83:TYR:CE1	2.46	0.51
44:PC:102:ASN:HB3	44:PC:105:ARG:CB	2.39	0.51
44:PC:352:LYS:HD2	45:PF:178:THR:HA	1.91	0.51
45:PD:270:PHE:HD2	45:PD:273:LEU:HD11	1.74	0.51
45:PD:315:ALA:C	45:PD:316:LEU:HD12	2.31	0.51
44:PE:118:CYS:O	44:PE:122:ILE:HG12	2.11	0.51
44:PE:268:MET:HG3	44:PE:378:ILE:CG2	2.40	0.51
44:PE:407:TRP:CH2	45:PF:258:ILE:HB	2.45	0.51
45:PF:206:ALA:HA	45:PF:209:ASP:HB3	1.93	0.51
44:PG:141:VAL:HG21	44:PG:172:TYR:HE1	1.74	0.51
45:PH:73:MET:CE	45:PH:92:PHE:HB3	2.40	0.51
44:PI:199:ASP:O	44:PI:266:HIS:HB2	2.11	0.51
44:PI:271:SER:OG	44:PI:301:MET:HA	2.11	0.51
44:QA:265:ILE:HG22	44:QA:380:ASN:HD21	1.75	0.51
45:QB:35:THR:HG22	45:QB:37:HIS:CE1	2.44	0.51
45:QB:120:VAL:O	45:QB:124:ALA:N	2.30	0.51
45:QD:103:LYS:HG3	45:QD:108:GLU:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:208:ALA:HB3	44:QE:302:MET:O	2.09	0.51
44:QE:258:ASN:OD1	45:QF:179:VAL:HG22	2.11	0.51
44:QG:143:GLY:HA3	46:QG:501:GTP:O2B	2.11	0.51
45:QH:200:MET:HG2	45:QH:266:PHE:CB	2.06	0.51
44:QI:191:THR:HA	44:QI:194:LEU:HD21	1.92	0.51
44:QI:340:THR:O	44:QI:341:ILE:HD13	2.10	0.51
45:QJ:116:VAL:HG21	45:QJ:151:LEU:HD21	1.93	0.51
45:QJ:290:THR:O	45:QJ:293:MET:HG2	2.09	0.51
45:QJ:318:ARG:HD3	45:QJ:358:PRO:HD3	1.93	0.51
44:QK:208:ALA:HB1	44:QK:301:MET:O	2.10	0.51
44:QM:243:ARG:O	44:QM:243:ARG:HG2	2.10	0.51
44:RA:54:SER:HB3	44:RA:64:ARG:HE	1.76	0.51
44:RA:238:LEU:HD21	44:RA:255:PHE:CE2	2.44	0.51
44:RA:346:TRP:O	45:RB:388:MET:HA	2.11	0.51
45:RB:23:VAL:O	45:RB:27:GLU:HB3	2.10	0.51
45:RB:264:HIS:O	45:RB:264:HIS:ND1	2.43	0.51
44:RC:269:LEU:HD23	44:RC:379:SER:O	2.10	0.51
44:RC:271:SER:OG	44:RC:301:MET:SD	2.68	0.51
45:RH:246:LEU:HD21	46:RI:501:GTP:H5''	1.91	0.51
44:RI:155:GLU:HA	44:RI:197:HIS:CG	2.46	0.51
44:RI:207:GLU:OE2	44:RI:304:LYS:HG2	2.10	0.51
44:RI:414:GLU:O	44:RI:417:GLU:HB2	2.11	0.51
45:RJ:36:TYR:OH	45:RJ:38:GLY:HA3	2.10	0.51
45:RL:173:PRO:CD	45:RL:380:ARG:HD3	2.40	0.51
44:RM:118:CYS:HB3	44:RM:120:ASP:CA	2.40	0.51
44:RM:182:VAL:HG22	44:RM:182:VAL:O	2.10	0.51
45:RN:217:LEU:O	45:RN:217:LEU:HD12	2.09	0.51
45:RN:318:ARG:NH2	45:RN:356:ILE:O	2.44	0.51
45:SB:256:ASN:HD22	45:SB:350:LYS:HD2	1.74	0.51
44:SC:166:LYS:C	44:SC:167:LEU:HD12	2.31	0.51
44:SC:205:ASP:OD1	44:SC:208:ALA:HB3	2.09	0.51
45:SF:168:SER:O	45:SF:201:VAL:HA	2.10	0.51
45:SF:313:ALA:HB2	45:SF:369:GLY:HA3	1.92	0.51
44:SG:176:GLN:OE1	44:SG:207:GLU:HG3	2.11	0.51
44:SG:214:ARG:CZ	44:SG:220:GLU:HA	2.41	0.51
45:SH:173:PRO:HG2	45:SH:380:ARG:HD3	1.91	0.51
45:SH:248:SER:OG	45:SH:252:LYS:HB3	2.11	0.51
45:SH:345:ILE:HG23	45:SH:345:ILE:O	2.09	0.51
44:SI:115:VAL:HG22	44:SI:119:LEU:HD23	1.93	0.51
44:SI:155:GLU:HG2	44:SI:197:HIS:CE1	2.46	0.51
44:SI:287:SER:HA	44:SI:373:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:284:GLU:O	44:SK:286:LEU:HD23	2.11	0.51
45:SL:139:LEU:HA	45:SL:145:SER:CB	2.41	0.51
45:SL:292:GLN:HE22	45:SL:298:ASN:CG	2.13	0.51
44:SM:145:THR:OG1	46:SM:501:GTP:O3G	2.27	0.51
45:SN:21:TRP:CH2	45:SN:61:PRO:HB3	2.45	0.51
44:TA:408:TYR:O	44:TA:413:MET:HG2	2.09	0.51
44:TC:70:LEU:HD13	44:TC:110:ILE:CD1	2.41	0.51
44:TC:112:LYS:O	44:TC:115:VAL:HG12	2.10	0.51
44:TC:235:ILE:HA	44:TC:238:LEU:HG	1.91	0.51
44:TC:383:ALA:O	44:TC:386:GLU:HG2	2.11	0.51
44:TC:390:ARG:HG3	44:TC:391:LEU:N	2.26	0.51
44:TE:254:GLU:HA	44:TE:257:THR:HG21	1.92	0.51
44:TE:305:CYS:O	44:TE:307:PRO:HD3	2.10	0.51
45:TF:202:ILE:HA	45:TF:301:CYS:SG	2.49	0.51
45:TH:342:VAL:HG13	45:TH:345:ILE:CG2	2.37	0.51
44:TI:227:LEU:HD12	46:TI:501:GTP:HN1	1.75	0.51
44:TI:286:LEU:HA	44:TI:290:GLU:OE2	2.10	0.51
44:TI:311:LYS:O	44:TI:382:THR:HG22	2.10	0.51
44:TK:385:ALA:HA	44:TK:388:PHE:HD2	1.76	0.51
45:TL:155:VAL:HG13	45:TL:159:TYR:CD1	2.46	0.51
44:TM:66:VAL:HG22	44:TM:68:LEU:HD12	1.93	0.51
45:TN:28:HIS:C	45:TN:43:GLN:HE21	2.13	0.51
45:TN:52:ASN:ND2	45:TN:62:ARG:HG2	2.26	0.51
44:UA:320:ARG:HB2	44:UA:356:ASN:HB3	1.93	0.51
44:UC:31:GLN:OE1	44:UC:31:GLN:HA	2.10	0.51
44:UC:230:LEU:CD1	44:UC:368:LEU:HG	2.40	0.51
45:UD:344:TRP:CZ3	44:UE:401:LYS:HE3	2.45	0.51
45:UH:322:SER:HB3	45:UH:326:VAL:HG23	1.92	0.51
45:UJ:105:HIS:CD2	45:UJ:150:LEU:HD12	2.46	0.51
45:UJ:252:LYS:CA	45:UJ:255:VAL:HB	2.35	0.51
44:UK:89:PRO:CG	44:VI:280:LYS:HZ2	2.22	0.51
45:UL:374:ILE:HD11	45:UL:422:TYR:CE1	2.44	0.51
44:UM:20:CYS:HA	44:UM:232:ALA:HB1	1.92	0.51
44:UM:387:VAL:HG12	44:UM:390:ARG:NH1	2.25	0.51
44:VA:175:PRO:HB3	44:VA:390:ARG:NE	2.26	0.51
44:VA:406:HIS:CG	45:VB:261:PRO:HD3	2.44	0.51
45:VD:193:VAL:HG13	45:VD:194:GLU:OE1	2.10	0.51
45:VD:268:ILE:HA	45:VD:367:PHE:O	2.09	0.51
45:VD:286:VAL:CB	45:VD:287:PRO:CD	2.87	0.51
45:VD:311:LEU:HB2	45:VD:370:ASN:O	2.11	0.51
44:VE:363:VAL:CG2	44:VE:364:PRO:HD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:54:SER:CB	44:VG:64:ARG:HH21	2.23	0.51
45:VH:337:ASN:HB3	45:VH:340:TYR:HD2	1.76	0.51
44:VI:14:ILE:CD1	44:VI:75:ILE:HD11	2.40	0.51
44:VI:316:SER:HA	44:VI:352:LYS:O	2.11	0.51
44:VK:145:THR:HG23	44:VK:146:GLY:N	2.25	0.51
45:VL:69:GLU:OE2	45:VL:72:THR:HB	2.10	0.51
45:VL:134:GLN:O	45:VL:134:GLN:HG3	2.09	0.51
45:VL:318:ARG:CZ	45:VL:358:PRO:HG3	2.41	0.51
44:VM:289:ALA:HA	44:VM:292:THR:OG1	2.11	0.51
45:VN:5:VAL:HG22	45:VN:133:PHE:CE1	2.45	0.51
45:VN:22:GLU:HG2	45:VN:81:PHE:CB	2.40	0.51
45:VN:99:ASN:C	45:VN:142:GLY:HA3	2.31	0.51
45:VN:114:ASP:OD1	45:VN:115:SER:N	2.41	0.51
44:WA:121:ARG:O	44:WA:125:LEU:HG	2.11	0.51
45:WB:68:LEU:HD11	45:WB:95:THR:OG1	2.10	0.51
45:WB:168:SER:O	45:WB:201:VAL:HG23	2.10	0.51
44:WC:329:ASN:HB3	45:WF:175:VAL:HG12	1.92	0.51
45:WD:186:THR:HG21	45:WD:385:PHE:HB2	1.93	0.51
45:WD:345:ILE:HG23	45:WD:348:ASN:HD22	1.75	0.51
44:WG:14:ILE:CD1	44:WG:75:ILE:HD11	2.40	0.51
44:WG:256:GLN:HA	44:WG:256:GLN:OE1	2.09	0.51
44:WI:23:LEU:HD22	44:WI:233:GLN:HA	1.92	0.51
44:WI:105:ARG:CG	44:WI:411:GLU:HG3	2.40	0.51
44:WI:181:VAL:HG21	45:WJ:345:ILE:HD11	1.92	0.51
45:WJ:31:ASP:HB3	45:WJ:32:PRO:CD	2.40	0.51
45:WJ:251:ARG:O	45:WJ:255:VAL:HG23	2.11	0.51
44:WK:66:VAL:HG12	44:WK:68:LEU:HD11	1.92	0.51
44:WK:247:ALA:HB2	44:WK:357:TYR:OH	2.09	0.51
45:WL:62:ARG:O	45:WL:62:ARG:HG2	2.11	0.51
45:WN:279:GLN:HA	45:WN:282:ARG:HH12	1.75	0.51
3:0B:118:ASN:HD22	44:JG:365:GLY:HA2	1.75	0.51
3:0B:315:ARG:HD3	44:KI:47:ASP:OD1	2.10	0.51
7:0F:194:PHE:CZ	45:ED:53:GLU:HG2	2.45	0.51
2:1A:36:ARG:NE	45:MF:356:ILE:HD11	2.15	0.51
20:1J:294:LEU:HD13	44:IK:221:ARG:O	2.11	0.51
12:1S:311:PRO:HG2	45:AF:260:PHE:HE1	1.74	0.51
15:1V:82:THR:HG23	45:LJ:106:TYR:CE2	2.46	0.51
15:1V:167:TYR:CE1	44:MK:400:ALA:HA	2.45	0.51
2:2A:97:SER:HA	45:MJ:31:ASP:OD1	2.09	0.51
5:2D:94:ASN:OD1	44:EK:26:LEU:HD13	2.11	0.51
32:2I:45:LYS:HD3	45:GH:332:ASN:CG	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2W:192:PRO:HG3	44:KM:46:ASP:OD2	2.10	0.51
2:3A:61:TYR:HD1	45:MN:48:ASN:ND2	2.07	0.51
26:3R:27:ALA:HB2	45:MN:74:ASP:OD1	2.08	0.51
35:4R:242:ASN:HB2	44:BE:57:GLY:CA	2.12	0.51
37:5B:113:VAL:HG21	44:NE:370:LYS:HE2	1.91	0.51
37:5D:34:PHE:CD1	44:KK:431:ASP:CG	2.83	0.51
37:5D:110:ARG:H	44:NM:281:ALA:H	1.56	0.51
37:5D:115:ASP:OD1	44:NM:374:ALA:N	2.43	0.51
38:5F:63:HIS:CD2	45:NF:58:ARG:HD2	2.46	0.51
38:5F:113:LEU:HD21	44:NE:84:ARG:CD	2.39	0.51
38:5G:36:PRO:HG2	38:5G:42:TYR:OH	2.11	0.51
39:5J:66:SER:HA	39:5J:69:LYS:HD3	1.91	0.51
35:5R:405:GLN:HE22	45:DJ:92:PHE:HZ	1.59	0.51
35:5R:413:ILE:HB	44:DI:58:ALA:HB2	1.92	0.51
36:5S:87:ILE:HG13	36:5S:87:ILE:O	2.11	0.51
36:5S:122:GLN:O	36:5S:126:GLU:HG3	2.10	0.51
35:7R:227:GLU:O	35:7R:230:GLU:HG3	2.11	0.51
42:8N:265:UNK:HA	42:8N:268:UNK:CB	2.40	0.51
43:8P:310:UNK:O	43:8P:314:UNK:N	2.43	0.51
44:AA:46:ASP:O	44:AA:47:ASP:HB3	2.10	0.51
44:AA:138:PHE:CD1	44:AA:169:PHE:HB2	2.45	0.51
45:AB:226:ASN:HD21	48:AB:502:GDP:HN1	1.58	0.51
45:AB:406:MET:HA	45:AB:409:THR:CB	2.39	0.51
45:AD:143:THR:O	45:AD:147:MET:HB3	2.10	0.51
45:AD:342:VAL:HG13	45:AD:345:ILE:CG2	2.37	0.51
45:AF:201:VAL:HG22	45:AF:266:PHE:O	2.10	0.51
45:AF:201:VAL:O	45:AF:202:ILE:HD13	2.09	0.51
45:AF:253:LEU:O	45:AF:257:LEU:HD13	2.10	0.51
44:AG:30:ILE:O	44:AG:30:ILE:HG13	2.10	0.51
44:AG:362:VAL:HG13	44:AG:362:VAL:O	2.10	0.51
44:AI:180:ALA:HA	45:AJ:350:LYS:NZ	2.26	0.51
44:AI:222:PRO:HD2	45:AJ:324:LYS:HD3	1.91	0.51
45:AJ:267:MET:HE3	45:AJ:374:ILE:HG22	1.91	0.51
45:AJ:303:ALA:HB2	45:AJ:377:MET:HG2	1.93	0.51
44:AK:323:VAL:HG11	44:AK:355:ILE:HD12	1.92	0.51
44:AM:80:THR:HA	44:AM:84:ARG:HD3	1.92	0.51
44:AM:88:HIS:HB3	44:AM:91:GLN:HG2	1.92	0.51
44:AM:270:SER:HA	44:AM:377:MET:SD	2.51	0.51
45:AN:49:VAL:HG21	45:AN:241:ARG:CG	2.40	0.51
45:AN:69:GLU:OE2	45:AN:72:THR:HG22	2.10	0.51
45:AN:236:VAL:HG12	45:AN:250:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:378:PHE:HB3	45:AN:419:VAL:CG2	2.40	0.51
45:BB:10:GLY:O	45:BB:14:ASN:ND2	2.44	0.51
44:BC:256:GLN:O	45:BF:397:TRP:NE1	2.43	0.51
45:BF:113:ILE:HD12	45:BF:150:LEU:HD12	1.91	0.51
44:BG:240:ALA:HA	44:BG:243:ARG:NH1	2.25	0.51
45:BH:143:THR:N	48:BH:502:GDP:O2B	2.43	0.51
45:BH:167:PHE:HE2	45:BH:233:MET:HG3	1.75	0.51
45:BH:295:ASP:OD2	45:BH:297:LYS:HE2	2.11	0.51
45:BL:167:PHE:CE2	45:BL:200:MET:HE2	2.46	0.51
44:BM:21:TRP:CA	44:BM:24:PHE:HB2	2.30	0.51
44:BM:70:LEU:HB3	44:BM:97:GLU:O	2.10	0.51
44:BM:88:HIS:HB3	44:BM:91:GLN:CB	2.40	0.51
44:BM:112:LYS:O	44:BM:115:VAL:HG22	2.09	0.51
44:CA:60:LYS:HD3	44:DA:283:HIS:CE1	2.45	0.51
44:CA:88:HIS:CD2	44:DA:280:LYS:CE	2.93	0.51
44:CA:246:GLY:HA2	44:CA:357:TYR:CE2	2.45	0.51
45:CB:164:MET:HB2	45:CB:197:ASP:CB	2.40	0.51
45:CB:227:HIS:HA	45:CB:230:SER:CB	2.38	0.51
44:CE:63:PRO:CG	44:CE:86:LEU:HG	2.39	0.51
44:CE:122:ILE:HD13	44:CE:125:LEU:HD12	1.93	0.51
45:CH:232:ALA:HB2	45:CH:268:ILE:HD12	1.92	0.51
45:CH:238:CYS:HB2	45:CH:318:ARG:HH21	1.75	0.51
44:CI:44:GLY:O	44:CI:48:ALA:HB2	2.10	0.51
44:CI:66:VAL:HG11	44:CI:122:ILE:CD1	2.40	0.51
44:CI:106:GLY:HA3	44:CI:148:GLY:HA3	1.93	0.51
44:CI:363:VAL:HG23	44:CI:364:PRO:HD2	1.91	0.51
44:CK:88:HIS:ND1	44:CK:89:PRO:HD2	2.25	0.51
45:CL:86:ARG:HG2	45:CL:88:ASP:H	1.73	0.51
44:CM:72:PRO:O	44:CM:76:ASP:N	2.32	0.51
44:CM:195:LEU:O	44:CM:266:HIS:NE2	2.43	0.51
44:CM:276:ILE:HG21	44:CM:281:ALA:CB	2.36	0.51
44:CM:389:SER:HA	44:CM:429:GLU:OE2	2.11	0.51
45:CN:44:LEU:CA	45:CN:47:ILE:HD11	2.39	0.51
44:DA:271:SER:CA	44:DA:302:MET:HG2	2.41	0.51
44:DA:310:GLY:HA3	44:DA:383:ALA:HB2	1.92	0.51
44:DA:420:GLU:O	44:DA:423:GLU:HB2	2.11	0.51
45:DB:36:TYR:CD1	45:DB:44:LEU:HD11	2.45	0.51
45:DB:246:LEU:HA	44:DC:11:GLN:NE2	2.19	0.51
44:DC:21:TRP:CZ2	44:DC:65:ALA:HB2	2.45	0.51
44:DC:121:ARG:NH1	44:DC:124:LYS:HD2	2.25	0.51
44:DC:186:ASN:OD1	44:DC:187:SER:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:288:VAL:HG11	44:DC:327:ASP:CB	2.39	0.51
44:DE:23:LEU:HD11	44:DE:361:THR:HG23	1.91	0.51
45:DF:135:ILE:O	45:DF:166:THR:HA	2.11	0.51
45:DH:289:LEU:CD1	45:DH:363:MET:HB3	2.37	0.51
44:DI:206:ASN:HA	44:DI:209:ILE:HD12	1.93	0.51
44:DK:335:ILE:HA	44:DK:338:LYS:NZ	2.26	0.51
44:DK:402:ARG:O	44:DK:405:VAL:HG12	2.11	0.51
45:DL:210:ILE:CD1	45:DL:300:MET:HG3	2.41	0.51
45:DL:313:ALA:O	45:DL:349:ILE:HA	2.10	0.51
44:DM:344:VAL:HG11	44:DM:346:TRP:CE2	2.46	0.51
45:DN:61:PRO:HD2	45:DN:84:LEU:O	2.11	0.51
44:EA:71:GLU:OE2	44:EA:73:THR:OG1	2.23	0.51
44:EA:115:VAL:HG22	44:EA:156:ARG:HD2	1.92	0.51
44:EA:224:TYR:HD1	44:EA:227:LEU:HD12	1.75	0.51
45:EB:389:PHE:CE1	45:EB:408:PHE:HB3	2.45	0.51
44:EC:103:PHE:HB3	44:EC:408:TYR:CE2	2.45	0.51
44:EE:317:MET:HA	44:EE:377:MET:HA	1.92	0.51
44:EG:208:ALA:C	44:EG:212:ILE:HG12	2.31	0.51
44:EG:389:SER:O	44:EG:392:ASP:N	2.42	0.51
45:EH:36:TYR:CD2	45:EH:44:LEU:HD21	2.45	0.51
45:EH:102:ALA:CB	45:EH:398:TYR:HD1	2.23	0.51
45:EH:263:LEU:HG	45:EH:422:TYR:CD1	2.45	0.51
44:EI:270:SER:HB3	44:EI:378:ILE:HD13	1.92	0.51
45:EJ:285:THR:OG1	45:EJ:287:PRO:HD2	2.11	0.51
45:EL:133:PHE:HB2	45:EL:164:MET:SD	2.50	0.51
45:EL:260:PHE:HB3	45:EL:261:PRO:CD	2.35	0.51
45:EL:382:ALA:O	45:EL:386:THR:HG22	2.10	0.51
44:EM:203:MET:CB	44:EM:303:ALA:HB2	2.39	0.51
45:EN:100:ASN:ND2	45:EN:103:LYS:H	2.09	0.51
44:FA:235:ILE:HD12	44:FA:235:ILE:H	1.75	0.51
44:FC:156:ARG:O	44:FC:160:ASP:N	2.43	0.51
44:FC:307:PRO:O	44:FC:312:TYR:OH	2.20	0.51
44:FE:27:GLU:HA	44:FE:27:GLU:OE1	2.10	0.51
44:FE:406:HIS:CE1	45:FF:261:PRO:HD3	2.45	0.51
45:FF:395:LEU:O	45:FF:399:THR:HG23	2.09	0.51
44:FG:284:GLU:HG3	44:FG:286:LEU:HD11	1.91	0.51
45:FH:33:THR:CB	45:FH:58:ARG:HH22	2.24	0.51
45:FJ:7:ILE:HD11	45:FJ:120:VAL:CG2	2.40	0.51
45:FJ:86:ARG:HG3	45:FJ:88:ASP:N	2.25	0.51
45:FJ:309:ARG:O	45:FJ:372:THR:HG22	2.11	0.51
45:FJ:341:PHE:CB	45:FJ:348:ASN:HD21	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:55:GLU:O	44:GK:285:GLN:NE2	2.44	0.51
44:FK:145:THR:HG22	46:FK:501:GTP:O3G	2.11	0.51
44:FK:220:GLU:C	44:FK:222:PRO:HD3	2.31	0.51
44:FM:51:THR:HG22	44:FM:52:PHE:CD2	2.45	0.51
45:GB:193:VAL:HG22	45:GB:265:PHE:HE1	1.76	0.51
45:GB:304:ASP:OD2	45:GB:307:HIS:NE2	2.44	0.51
45:GB:326:VAL:O	45:GB:330:MET:HG2	2.10	0.51
44:GC:89:PRO:HD3	44:HC:283:HIS:ND1	2.26	0.51
44:GC:107:HIS:HD1	44:GC:108:TYR:HE1	1.55	0.51
44:GC:119:LEU:HA	44:GC:122:ILE:HG12	1.92	0.51
44:GE:1:MET:HA	44:GE:1:MET:CE	2.40	0.51
44:GE:151:SER:HB3	44:GE:193:SER:OG	2.10	0.51
44:GI:393:HIS:O	44:GI:397:LEU:HG	2.09	0.51
44:GK:42:ILE:HG13	44:GK:43:GLY:H	1.74	0.51
45:GL:113:ILE:HG12	45:GL:154:LYS:HZ2	1.74	0.51
45:GL:355:ASP:O	45:GL:356:ILE:HD13	2.10	0.51
44:GM:87:PHE:O	44:GM:89:PRO:HD2	2.11	0.51
44:GM:118:CYS:O	44:GM:122:ILE:HG12	2.10	0.51
44:GM:210:TYR:CD2	45:GN:324:LYS:HG3	2.46	0.51
45:HB:178:THR:CB	45:HB:181:GLU:HG3	2.21	0.51
44:HC:5:ILE:HD11	44:HC:126:ALA:CA	2.38	0.51
45:HD:103:LYS:O	45:HD:108:GLU:HB2	2.10	0.51
45:HD:180:VAL:O	45:HD:183:TYR:N	2.38	0.51
45:HD:204:ASN:OD1	45:HD:205:GLU:N	2.44	0.51
45:HD:318:ARG:HB2	45:HD:364:ALA:CB	2.31	0.51
44:HE:371:VAL:HG12	44:HE:372:MET:H	1.75	0.51
45:HF:101:TRP:HD1	45:HF:145:SER:OG	1.94	0.51
44:HG:93:ILE:HD12	44:HG:93:ILE:H	1.76	0.51
44:HG:172:TYR:HB3	44:HG:173:PRO:CD	2.41	0.51
44:HG:210:TYR:HH	45:HH:323:THR:HG1	1.59	0.51
45:HH:175:VAL:HG23	45:HH:175:VAL:O	2.10	0.51
45:HJ:370:ASN:OD1	45:HJ:422:TYR:OH	2.28	0.51
44:HM:387:VAL:HA	44:HM:390:ARG:CG	2.41	0.51
44:HM:407:TRP:CZ3	45:HN:255:VAL:HA	2.45	0.51
44:IA:217:LEU:HD22	44:IA:367:ASP:CB	2.41	0.51
44:IA:276:ILE:HD13	44:IA:281:ALA:HA	1.91	0.51
44:IA:406:HIS:CE1	45:IB:260:PHE:HA	2.45	0.51
44:IA:419:SER:O	44:IA:423:GLU:HG3	2.10	0.51
45:IB:156:ARG:HD2	45:IB:164:MET:HE1	1.92	0.51
45:IB:372:THR:CG2	45:IB:426:GLN:HB2	2.41	0.51
44:IC:252:ILE:HA	44:IC:255:PHE:CD2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:11:GLN:HB3	46:IE:501:GTP:PB	2.50	0.51
45:IF:199:CYS:HB3	45:IF:265:PHE:CD1	2.45	0.51
45:IF:207:LEU:HB3	45:IF:225:LEU:HD22	1.91	0.51
45:IF:341:PHE:HD2	45:IF:348:ASN:ND2	2.08	0.51
44:IG:118:CYS:O	44:IG:122:ILE:HG12	2.11	0.51
45:IH:232:ALA:HB1	45:IH:268:ILE:HD11	1.91	0.51
45:IJ:67:ASP:OD2	45:IJ:72:THR:HG21	2.10	0.51
45:IJ:174:LYS:HA	45:IJ:174:LYS:HE2	1.91	0.51
45:IJ:293:MET:HG3	45:IJ:365:VAL:CG1	2.40	0.51
45:IJ:345:ILE:HG23	45:IJ:348:ASN:HB3	1.92	0.51
45:IL:3:GLU:HG3	45:IL:127:CYS:HB2	1.92	0.51
45:IL:326:VAL:HG11	45:IL:353:ILE:HD11	1.92	0.51
44:IM:138:PHE:CD1	44:IM:169:PHE:HB2	2.46	0.51
44:JA:137:VAL:N	44:JA:167:LEU:O	2.43	0.51
44:JC:34:GLY:O	44:JC:60:LYS:HA	2.10	0.51
44:JC:312:TYR:CD2	44:JC:381:SER:HB3	2.45	0.51
44:JC:323:VAL:CG1	44:JC:355:ILE:HD12	2.41	0.51
44:JC:334:THR:O	44:JC:337:THR:HG22	2.11	0.51
45:JD:2:ARG:NH1	45:JD:240:LEU:HG	2.25	0.51
45:JD:31:ASP:HB2	45:JD:32:PRO:CD	2.40	0.51
45:JD:134:GLN:NE2	45:JD:233:MET:SD	2.84	0.51
45:JF:115:SER:O	45:JF:118:ASP:HB2	2.10	0.51
44:JG:210:TYR:CE1	44:JG:222:PRO:HG2	2.46	0.51
45:JH:3:GLU:HG3	45:JH:127:CYS:HB2	1.93	0.51
45:JH:32:PRO:CG	45:JH:81:PHE:HE1	2.21	0.51
45:JH:174:LYS:HE2	45:JH:174:LYS:HA	1.93	0.51
45:JH:198:GLU:OE2	45:JH:254:ALA:HB2	2.11	0.51
45:JH:260:PHE:HB3	45:JH:261:PRO:HD2	1.92	0.51
45:JJ:66:MET:SD	45:JJ:147:MET:HE1	2.51	0.51
45:JJ:403:MET:HE1	45:JJ:407:GLU:HG3	1.91	0.51
44:JK:96:LYS:HE3	44:JK:96:LYS:CA	2.29	0.51
44:JK:138:PHE:HZ	44:JK:235:ILE:HG21	1.75	0.51
44:JK:171:ILE:HD13	44:JK:204:LEU:HB2	1.91	0.51
44:JK:234:VAL:CA	44:JK:237:SER:HB3	2.39	0.51
44:JK:291:ILE:HG13	44:JK:292:THR:N	2.26	0.51
44:JK:344:VAL:HG22	44:JK:345:ASP:H	1.76	0.51
44:JM:7:ILE:N	44:JM:136:LEU:O	2.37	0.51
44:JM:151:SER:O	44:JM:154:LEU:HB2	2.10	0.51
44:JM:188:ILE:HG23	44:JM:425:LEU:HD21	1.91	0.51
45:JN:276:ARG:NE	45:JN:276:ARG:HA	2.25	0.51
45:KB:97:ALA:HB2	45:KB:143:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:191:THR:OG1	44:KC:425:LEU:HD21	2.11	0.51
45:KD:117:LEU:O	45:KD:120:VAL:HG12	2.10	0.51
44:KE:208:ALA:HB3	44:KE:302:MET:O	2.10	0.51
45:KF:285:THR:HA	45:KF:363:MET:HE1	1.91	0.51
45:KF:314:SER:HB2	45:KF:350:LYS:HB3	1.93	0.51
45:KH:285:THR:HG23	45:KH:288:GLU:H	1.76	0.51
44:KI:20:CYS:HA	44:KI:232:ALA:CB	2.40	0.51
44:KI:312:TYR:HB2	44:KI:343:PHE:CD1	2.45	0.51
45:KJ:135:ILE:HD13	45:KJ:164:MET:HE2	1.93	0.51
44:KK:267:PHE:CE1	44:KK:388:PHE:HZ	2.29	0.51
44:KK:371:VAL:HG22	44:KK:373:ARG:H	1.76	0.51
45:KN:345:ILE:HG23	45:KN:345:ILE:O	2.10	0.51
44:LC:145:THR:HG23	44:LC:146:GLY:N	2.24	0.51
45:LD:201:VAL:HG22	45:LD:266:PHE:O	2.09	0.51
44:LE:248:LEU:HB2	44:LE:355:ILE:HG12	1.93	0.51
45:LH:174:LYS:NZ	45:LH:205:GLU:HB2	2.26	0.51
45:LJ:94:GLN:O	45:LJ:94:GLN:HG3	2.10	0.51
44:LM:70:LEU:HD22	44:LM:110:ILE:CD1	2.39	0.51
44:LM:226:ASN:HA	44:LM:229:ARG:NH2	2.18	0.51
44:LM:288:VAL:HA	44:LM:291:ILE:HG12	1.91	0.51
45:LN:169:VAL:O	45:LN:169:VAL:HG23	2.09	0.51
45:LN:233:MET:O	45:LN:236:VAL:HG12	2.10	0.51
44:MA:363:VAL:HG23	44:MA:364:PRO:HD2	1.92	0.51
44:MC:254:GLU:CG	45:MF:98:GLY:HA2	2.23	0.51
45:MD:7:ILE:HG21	45:MD:151:LEU:HD23	1.91	0.51
45:MD:19:LYS:HA	45:MD:22:GLU:HB2	1.92	0.51
45:MD:178:THR:N	45:MD:181:GLU:OE2	2.44	0.51
45:MD:192:LEU:HD21	45:MD:199:CYS:SG	2.50	0.51
45:MD:318:ARG:HH12	45:MD:358:PRO:HG3	1.74	0.51
45:MF:6:HIS:NE2	45:MF:8:GLN:HB3	2.25	0.51
45:MF:135:ILE:HB	45:MF:166:THR:CG2	2.36	0.51
45:MF:167:PHE:HE1	45:MF:200:MET:HE3	1.75	0.51
45:MF:257:LEU:HA	45:MF:312:THR:CG2	2.40	0.51
45:MH:12:CYS:HB3	45:MH:138:SER:CB	2.41	0.51
44:MK:2:ARG:HG2	44:MK:242:LEU:HD11	1.91	0.51
44:MK:229:ARG:NH1	44:MK:363:VAL:HG11	2.25	0.51
44:MK:278:ALA:N	44:MK:369:ALA:HB2	2.25	0.51
45:ML:178:THR:O	45:ML:181:GLU:HG3	2.11	0.51
44:MM:298:PRO:HB3	44:MM:307:PRO:HD2	1.91	0.51
45:MN:109:GLY:HA2	45:MN:147:MET:HE3	1.93	0.51
45:MN:156:ARG:HD2	45:MN:156:ARG:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:136:THR:HG22	45:NB:167:PHE:CB	2.40	0.51
45:NB:172:SER:HB2	45:NB:205:GLU:HG2	1.91	0.51
45:NB:268:ILE:CG2	45:NB:368:VAL:HG22	2.41	0.51
44:NC:224:TYR:CZ	45:ND:323:THR:HG21	2.46	0.51
44:NC:236:SER:CB	44:NC:320:ARG:HH22	2.23	0.51
44:NC:256:GLN:NE2	44:NC:257:THR:HG23	2.25	0.51
45:ND:172:SER:HB2	45:ND:205:GLU:CD	2.30	0.51
44:NE:222:PRO:HG2	45:NF:324:LYS:CB	2.40	0.51
44:NE:288:VAL:HG11	44:NE:327:ASP:OD2	2.10	0.51
44:NG:176:GLN:HG2	45:NH:331:LEU:CD2	2.40	0.51
44:NG:332:ILE:HG23	44:NG:351:PHE:CE2	2.45	0.51
45:NH:101:TRP:CZ3	45:NH:187:LEU:HD13	2.45	0.51
45:NH:145:SER:O	45:NH:149:THR:OG1	2.17	0.51
45:NH:418:LEU:HA	45:NH:421:GLU:HG2	1.92	0.51
44:NI:90:GLU:HG3	44:OI:280:LYS:CE	2.40	0.51
44:NI:96:LYS:HG2	45:NJ:1:MET:HE1	1.92	0.51
44:NI:318:MET:CE	44:NI:354:GLY:HA3	2.40	0.51
44:NK:19:ALA:HA	44:NK:22:GLU:HG2	1.91	0.51
44:NK:137:VAL:CG1	44:NK:168:GLY:HA2	2.40	0.51
44:NM:183:GLU:N	44:NM:184:PRO:HD2	2.26	0.51
44:NM:203:MET:HG3	44:NM:303:ALA:HB2	1.93	0.51
44:OA:319:TYR:CD2	44:OA:375:VAL:HB	2.45	0.51
44:OC:84:ARG:HG3	44:OC:85:GLN:CD	2.31	0.51
44:OC:195:LEU:O	44:OC:195:LEU:HD23	2.09	0.51
45:OD:221:THR:N	45:OD:224:ASP:OD2	2.43	0.51
45:OJ:284:LEU:CD2	45:OJ:362:LYS:HB2	2.40	0.51
44:OK:423:GLU:HA	44:OK:426:ALA:HB3	1.92	0.51
44:OM:11:GLN:NE2	45:ON:247:ASN:H	2.06	0.51
44:OM:179:THR:O	45:ON:350:LYS:HA	2.10	0.51
44:OM:269:LEU:HD23	44:OM:269:LEU:H	1.75	0.51
45:ON:68:LEU:HD21	45:ON:112:LEU:HD23	1.92	0.51
45:ON:323:THR:HG22	45:ON:353:ILE:CD1	2.39	0.51
44:PA:4:VAL:C	44:PA:64:ARG:HH11	2.14	0.51
44:PA:179:THR:HG21	45:PB:246:LEU:CD2	2.40	0.51
44:PA:188:ILE:HG22	44:PA:421:ALA:HB1	1.92	0.51
44:PA:261:PRO:HG2	44:PA:313:MET:HE2	1.93	0.51
45:PB:116:VAL:O	45:PB:119:VAL:HG12	2.10	0.51
45:PB:180:VAL:HG23	45:PB:183:TYR:CD2	2.46	0.51
45:PB:186:THR:O	45:PB:189:VAL:HB	2.10	0.51
45:PB:382:ALA:HB2	45:PB:415:MET:HE3	1.92	0.51
44:PE:32:PRO:HB3	44:PE:83:TYR:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:68:LEU:HD11	44:PE:118:CYS:HB2	1.91	0.51
44:PE:188:ILE:HD12	44:PE:425:LEU:CD1	2.40	0.51
44:PE:221:ARG:HG3	45:PF:322:SER:OG	2.10	0.51
44:PE:326:LYS:HG2	45:PH:220:PRO:O	2.11	0.51
45:PF:290:THR:HA	45:PF:293:MET:HG2	1.92	0.51
45:PF:345:ILE:O	45:PF:345:ILE:HG23	2.10	0.51
44:PG:10:GLY:O	44:PG:14:ILE:HG13	2.10	0.51
44:PG:192:HIS:ND1	44:PG:424:ASP:OD2	2.39	0.51
44:PG:205:ASP:O	44:PG:209:ILE:HG13	2.11	0.51
45:PH:192:LEU:HD12	45:PH:196:ALA:HB2	1.92	0.51
44:PI:372:MET:HA	44:PI:372:MET:CE	2.40	0.51
45:PJ:315:ALA:HB1	45:PJ:365:VAL:CG1	2.41	0.51
45:PJ:417:ASP:O	45:PJ:421:GLU:N	2.38	0.51
45:PL:311:LEU:O	45:PL:345:ILE:HD11	2.10	0.51
44:PM:311:LYS:N	44:PM:382:THR:OG1	2.44	0.51
45:PN:242:PHE:CB	45:PN:356:ILE:HG13	2.40	0.51
45:PN:330:MET:O	45:PN:333:VAL:HB	2.10	0.51
44:QA:261:PRO:HG2	44:QA:313:MET:SD	2.50	0.51
44:QA:271:SER:HB2	44:QA:377:MET:CG	2.39	0.51
44:QA:389:SER:HA	44:QA:392:ASP:OD2	2.11	0.51
44:QA:425:LEU:O	44:QA:429:GLU:HB2	2.11	0.51
45:QB:331:LEU:HA	45:QB:334:GLN:HG2	1.92	0.51
45:QD:73:MET:HE3	45:QD:77:ARG:HH22	1.74	0.51
45:QD:255:VAL:HG21	44:QE:100:ALA:CB	2.40	0.51
45:QF:151:LEU:O	45:QF:155:VAL:HG23	2.09	0.51
44:QG:23:LEU:CD2	44:QG:236:SER:HB2	2.40	0.51
44:QG:97:GLU:HB3	44:QG:110:ILE:CD1	2.41	0.51
44:QG:232:ALA:O	44:QG:236:SER:N	2.39	0.51
44:QG:405:VAL:HG12	44:QG:409:VAL:HG23	1.93	0.51
45:QH:164:MET:HB2	45:QH:197:ASP:HB2	1.93	0.51
45:QH:255:VAL:CA	44:QI:407:TRP:HZ3	2.18	0.51
45:QJ:22:GLU:HG2	45:QJ:81:PHE:CB	2.39	0.51
45:QJ:69:GLU:OE1	45:QJ:71:GLY:N	2.43	0.51
45:QJ:170:VAL:CG2	45:QJ:171:PRO:HD2	2.40	0.51
45:QJ:216:LYS:NZ	45:QJ:275:SER:OG	2.43	0.51
45:QL:50:TYR:O	45:QL:62:ARG:HD2	2.10	0.51
44:RA:52:PHE:O	44:RA:64:ARG:HG2	2.10	0.51
45:RB:54:ALA:HB3	45:RB:58:ARG:CG	2.36	0.51
44:RC:137:VAL:HG12	44:RC:167:LEU:O	2.09	0.51
44:RC:205:ASP:OD2	44:RC:304:LYS:N	2.35	0.51
45:RD:246:LEU:HD11	44:RE:224:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:34:GLY:HA3	44:RE:60:LYS:HB2	1.91	0.51
45:RF:86:ARG:HA	45:SF:281:TYR:CD2	2.46	0.51
44:RG:157:LEU:HB3	44:RG:166:LYS:HZ3	1.75	0.51
44:RI:19:ALA:O	44:RI:229:ARG:NH2	2.43	0.51
44:RI:103:PHE:CD2	44:RI:413:MET:HE1	2.45	0.51
45:RJ:60:VAL:HG21	45:RJ:86:ARG:NE	2.24	0.51
45:RJ:189:VAL:O	45:RJ:192:LEU:HB3	2.11	0.51
45:RJ:252:LYS:HG3	44:RK:101:ASN:HD22	1.76	0.51
44:RK:313:MET:HG3	44:RK:346:TRP:CH2	2.45	0.51
44:RK:351:PHE:N	45:RL:179:VAL:HG12	2.25	0.51
45:RL:383:GLU:HA	45:RL:386:THR:OG1	2.10	0.51
44:RM:11:GLN:O	44:RM:14:ILE:N	2.34	0.51
45:RN:122:LYS:HD2	45:SN:291:GLN:OE1	2.11	0.51
44:SA:91:GLN:HB3	44:SA:121:ARG:HD2	1.93	0.51
45:SB:1:MET:SD	45:SB:2:ARG:HB3	2.51	0.51
45:SB:163:ILE:HG13	45:SB:163:ILE:O	2.10	0.51
44:SC:55:GLU:HG3	44:SC:57:GLY:N	2.20	0.51
44:SC:169:PHE:CE2	44:SC:202:VAL:HG21	2.45	0.51
45:SD:178:THR:CB	45:SD:181:GLU:HG3	2.35	0.51
45:SD:246:LEU:O	45:SD:246:LEU:HD23	2.10	0.51
45:SD:268:ILE:HG22	45:SD:368:VAL:HA	1.93	0.51
44:SE:372:MET:O	44:SE:373:ARG:HD2	2.10	0.51
44:SE:377:MET:O	44:SE:378:ILE:HD13	2.10	0.51
44:SG:4:VAL:HG11	44:SG:52:PHE:CE2	2.46	0.51
44:SG:67:PHE:C	44:SG:68:LEU:HD12	2.30	0.51
45:SH:100:ASN:ND2	45:SH:401:GLU:OE1	2.44	0.51
45:SH:318:ARG:HD3	45:SH:358:PRO:CG	2.40	0.51
44:SK:276:ILE:CG1	44:SK:281:ALA:HA	2.41	0.51
45:SL:156:ARG:NH2	45:SL:160:PRO:O	2.44	0.51
45:SL:186:THR:HA	45:SL:189:VAL:CG2	2.40	0.51
44:SM:88:HIS:CD2	44:SM:89:PRO:HD2	2.45	0.51
44:TA:2:ARG:HG3	44:TA:51:THR:OG1	2.10	0.51
44:TA:183:GLU:N	44:TA:184:PRO:HD2	2.24	0.51
44:TA:225:THR:O	44:TA:229:ARG:HG3	2.10	0.51
45:TB:180:VAL:CG2	45:TB:183:TYR:HB2	2.40	0.51
45:TD:25:SER:HB3	45:TD:30:ILE:HB	1.91	0.51
45:TD:186:THR:HG21	45:TD:385:PHE:CD2	2.45	0.51
44:TE:134:GLY:HA3	44:TE:165:SER:OG	2.11	0.51
45:TF:134:GLN:O	45:TF:134:GLN:HG3	2.10	0.51
45:TF:367:PHE:CZ	45:TF:369:GLY:HA3	2.45	0.51
44:TG:22:GLU:N	44:TG:22:GLU:OE1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:254:GLU:HG2	45:TH:98:GLY:CA	2.31	0.51
45:TH:3:GLU:O	45:TH:130:LEU:HD12	2.11	0.51
45:TH:4:ILE:O	45:TH:62:ARG:HD2	2.10	0.51
45:TH:64:ILE:HG12	45:TH:89:ASN:HB3	1.93	0.51
45:TH:311:LEU:O	45:TH:345:ILE:HG21	2.10	0.51
44:TI:15:GLN:O	44:TI:18:ASN:HB3	2.11	0.51
44:TI:205:ASP:CG	44:TI:303:ALA:HA	2.30	0.51
45:TJ:4:ILE:HD11	45:TJ:50:TYR:OH	2.10	0.51
45:TL:318:ARG:HA	45:TL:354:CYS:O	2.10	0.51
45:TL:348:ASN:HA	44:TM:181:VAL:CG1	2.38	0.51
44:TM:135:PHE:CB	44:TM:166:LYS:HG2	2.37	0.51
44:UA:171:ILE:HD13	46:UA:501:GTP:N2	2.26	0.51
45:UB:207:LEU:CD1	45:UB:225:LEU:HD22	2.37	0.51
45:UB:248:SER:CA	45:UB:252:LYS:HD2	2.31	0.51
44:UC:99:ALA:HB3	44:UC:145:THR:N	2.25	0.51
44:UC:313:MET:HE2	44:UC:344:VAL:HB	1.91	0.51
44:UE:137:VAL:HG13	44:UE:137:VAL:O	2.10	0.51
45:UF:67:ASP:OD1	45:UF:68:LEU:N	2.44	0.51
44:UG:211:ASP:O	44:UG:215:ARG:N	2.27	0.51
45:UH:1:MET:HE1	44:UI:96:LYS:O	2.10	0.51
45:UH:256:ASN:C	45:UH:257:LEU:HD12	2.31	0.51
44:UK:390:ARG:HG3	44:UK:391:LEU:N	2.26	0.51
45:UL:2:ARG:HH22	44:UM:73:THR:HG21	1.75	0.51
45:UL:210:ILE:HG23	45:UL:214:THR:HG21	1.92	0.51
45:UL:261:PRO:HD3	44:UM:406:HIS:CD2	2.45	0.51
45:UL:375:GLN:C	45:UL:379:LYS:HZ2	2.14	0.51
44:UM:240:ALA:HB1	44:UM:356:ASN:ND2	2.11	0.51
44:UM:293:ASN:O	44:UM:297:GLU:HG2	2.10	0.51
45:UN:117:LEU:HD12	45:UN:120:VAL:HB	1.93	0.51
45:UN:187:LEU:HD11	45:UN:408:PHE:CE1	2.46	0.51
45:VB:256:ASN:ND2	45:VB:350:LYS:HD2	2.25	0.51
45:VD:13:GLY:HA3	45:VD:137:HIS:HA	1.92	0.51
45:VD:164:MET:CE	45:VD:196:ALA:HA	2.40	0.51
45:VD:303:ALA:HB1	45:VD:373:ALA:HB1	1.91	0.51
45:VD:374:ILE:HD11	45:VD:422:TYR:CE1	2.45	0.51
44:VE:2:ARG:HD2	44:VE:242:LEU:O	2.10	0.51
44:VE:305:CYS:SG	44:VE:383:ALA:HB1	2.49	0.51
45:VH:85:PHE:HD2	45:VH:90:PHE:CZ	2.28	0.51
44:VK:70:LEU:HD13	44:VK:110:ILE:HD12	1.92	0.51
44:WA:310:GLY:O	44:WA:311:LYS:HD3	2.10	0.51
45:WB:51:TYR:HB3	45:WB:59:TYR:HD2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:138:PHE:CD2	44:WC:169:PHE:HB2	2.45	0.51
44:WC:291:ILE:HD13	44:WC:373:ARG:CB	2.33	0.51
45:WD:42:LEU:HD12	45:WD:42:LEU:H	1.75	0.51
45:WD:101:TRP:HD1	45:WD:145:SER:HG	1.59	0.51
45:WD:221:THR:CG2	45:WD:224:ASP:H	2.20	0.51
45:WD:304:ASP:HB3	45:WD:307:HIS:CG	2.46	0.51
44:WE:88:HIS:HB3	44:WE:91:GLN:CD	2.29	0.51
44:WE:273:ALA:HB1	44:WE:274:PRO:HA	1.92	0.51
44:WG:1:MET:CE	45:WJ:94:GLN:HB3	2.39	0.51
44:WG:41:THR:HG23	44:WG:42:ILE:N	2.25	0.51
44:WG:174:SER:HA	44:WG:205:ASP:OD2	2.10	0.51
45:WH:139:LEU:HA	45:WH:145:SER:CB	2.34	0.51
45:WH:238:CYS:HB2	45:WH:318:ARG:NE	2.26	0.51
45:WH:242:PHE:HB2	45:WH:354:CYS:SG	2.50	0.51
44:WI:33:ASP:HB3	44:WI:35:GLN:HE22	1.75	0.51
44:WI:329:ASN:CB	45:WL:175:VAL:HG11	2.40	0.51
44:WI:407:TRP:HZ3	45:WJ:255:VAL:HA	1.68	0.51
45:WJ:316:LEU:HG	45:WJ:352:SER:OG	2.11	0.51
45:WJ:328:GLU:HA	45:WJ:331:LEU:HB3	1.92	0.51
45:WJ:372:THR:O	45:WJ:372:THR:HG22	2.11	0.51
44:WK:254:GLU:CG	45:WN:98:GLY:HA2	2.40	0.51
44:WK:363:VAL:CG2	44:WK:364:PRO:HD2	2.40	0.51
44:WM:201:ALA:HB3	44:WM:267:PHE:CD2	2.45	0.51
44:WM:317:MET:SD	44:WM:377:MET:HB3	2.50	0.51
45:WN:1:MET:HB2	45:WN:2:ARG:NH1	2.25	0.51
45:WN:68:LEU:HD23	45:WN:97:ALA:N	2.24	0.51
45:WN:326:VAL:HG21	45:WN:353:ILE:HD11	1.93	0.51
8:OG:50:GLY:HA2	44:JK:82:THR:HG21	1.92	0.51
8:1G:85:ILE:HD11	45:JB:26:ASP:OD2	2.11	0.51
19:1I:27:TRP:CH2	44:IC:89:PRO:HB3	2.45	0.51
20:1J:61:LEU:CD2	44:IC:279:GLU:HG3	2.40	0.51
20:1J:140:PHE:HD2	44:IE:370:LYS:O	1.92	0.51
10:1N:160:GLN:HE22	45:KJ:361:LEU:HD21	1.75	0.51
10:1N:179:ILE:HD11	45:KJ:31:ASP:CG	2.31	0.51
27:1W:161:ASN:ND2	45:LD:284:LEU:HD12	2.25	0.51
2:2A:74:SER:HA	44:AI:219:ILE:CD1	2.41	0.51
24:2O:431:ILE:HD11	44:VA:279:GLU:HA	1.91	0.51
2:3A:124:LEU:HD13	45:AN:361:LEU:HD21	1.92	0.51
2:3A:152:LYS:HZ2	35:6R:76:ASP:HA	1.75	0.51
11:3Q:17:ILE:HG23	45:WH:125:GLU:HG2	1.93	0.51
26:3R:152:LEU:N	45:AN:78:ALA:HB1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:4C:67:LYS:N	44:LM:82:THR:HG22	2.24	0.51
34:4F:9:GLN:HG3	44:HI:218:ASP:OD2	2.09	0.51
11:4Q:45:SER:HB3	45:WJ:125:GLU:OE2	2.09	0.51
35:4R:101:GLU:HG2	45:BH:280:GLN:HE22	1.75	0.51
37:5A:150:PHE:CD1	44:NC:364:PRO:HG2	2.44	0.51
38:5F:212:THR:HG21	45:LJ:391:ARG:HH21	1.76	0.51
38:5G:29:LYS:HD3	44:OG:218:ASP:O	2.11	0.51
38:5G:167:LEU:HD22	38:5G:169:PRO:HG3	1.93	0.51
35:5R:429:LYS:H	35:5R:506:LEU:HD23	1.75	0.51
35:5R:465:ILE:HG13	35:5R:465:ILE:O	2.11	0.51
35:6R:26:HIS:CA	44:LK:244:PHE:HD1	2.17	0.51
35:6R:33:LEU:HD12	45:LN:92:PHE:O	2.11	0.51
35:7R:500:VAL:HG21	45:EB:32:PRO:HD2	1.92	0.51
44:AA:88:HIS:HB3	44:AA:91:GLN:CG	2.40	0.51
45:AB:8:GLN:NE2	45:AB:14:ASN:HA	2.24	0.51
45:AB:101:TRP:CG	45:AB:187:LEU:HD13	2.45	0.51
45:AB:323:THR:O	45:AB:326:VAL:N	2.44	0.51
45:AB:325:GLU:HA	45:AB:328:GLU:CG	2.40	0.51
45:AD:32:PRO:HG3	45:AD:81:PHE:CE2	2.46	0.51
45:AD:345:ILE:O	45:AD:345:ILE:HG23	2.11	0.51
44:AG:251:ASP:H	44:AG:254:GLU:HG3	1.75	0.51
44:AG:275:ILE:HD12	44:AG:368:LEU:HD11	1.92	0.51
45:AH:7:ILE:HD12	45:AH:151:LEU:CD2	2.40	0.51
45:AH:36:TYR:CE1	45:AH:44:LEU:HD11	2.45	0.51
45:AJ:61:PRO:HG3	45:AJ:84:LEU:HD23	1.92	0.51
44:AK:108:TYR:O	44:AK:112:LYS:NZ	2.40	0.51
44:AK:268:MET:HG3	44:AK:378:ILE:CG2	2.40	0.51
44:AM:237:SER:HA	44:AM:320:ARG:NH2	2.25	0.51
44:BA:195:LEU:HD12	44:BA:266:HIS:NE2	2.26	0.51
44:BA:315:CYS:HB3	44:BA:350:GLY:O	2.11	0.51
45:BD:326:VAL:O	45:BD:330:MET:HG2	2.11	0.51
45:BJ:192:LEU:HD12	45:BJ:196:ALA:HB2	1.91	0.51
44:BK:103:PHE:CD2	44:BK:189:LEU:HD13	2.46	0.51
45:BL:268:ILE:O	45:BL:300:MET:HB2	2.10	0.51
45:BL:288:GLU:O	45:BL:291:GLN:HG3	2.11	0.51
45:BN:242:PHE:HD1	45:BN:356:ILE:HB	1.75	0.51
45:BN:370:ASN:OD1	45:BN:422:TYR:OH	2.26	0.51
45:CB:86:ARG:HA	45:DB:281:TYR:CE2	2.45	0.51
45:CB:101:TRP:HA	45:CB:145:SER:OG	2.10	0.51
44:CC:151:SER:HB3	44:CC:193:SER:CB	2.41	0.51
44:CE:252:ILE:HA	44:CE:255:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:432:TYR:O	44:CG:435:VAL:HG22	2.11	0.51
44:CI:268:MET:CB	44:CI:380:ASN:HA	2.41	0.51
45:CJ:246:LEU:CD1	44:CK:224:TYR:HE2	2.23	0.51
44:CK:101:ASN:HA	44:CK:144:GLY:H	1.75	0.51
44:CK:273:ALA:HB1	44:CK:274:PRO:HA	1.93	0.51
44:CM:151:SER:HB3	44:CM:193:SER:CB	2.40	0.51
44:CM:371:VAL:HG23	44:CM:373:ARG:O	2.10	0.51
45:CN:252:LYS:HG3	45:CN:253:LEU:HD12	1.91	0.51
44:DA:28:HIS:HB2	44:DA:30:ILE:HG13	1.93	0.51
44:DA:340:THR:HG23	44:DA:341:ILE:HG13	1.91	0.51
45:DB:169:VAL:HG13	45:DB:202:ILE:O	2.11	0.51
45:DD:113:ILE:HD13	45:DD:150:LEU:CD2	2.35	0.51
44:DE:229:ARG:NH1	44:DE:363:VAL:HG21	2.26	0.51
45:DF:3:GLU:OE2	45:DF:127:CYS:HB2	2.10	0.51
45:DH:67:ASP:OD1	45:DH:68:LEU:N	2.42	0.51
44:DI:135:PHE:CB	44:DI:166:LYS:HG2	2.18	0.51
45:DJ:73:MET:CE	45:DJ:92:PHE:HB3	2.41	0.51
45:DJ:101:TRP:HB2	45:DJ:184:ASN:HB3	1.92	0.51
45:DJ:170:VAL:HG23	45:DJ:171:PRO:HD2	1.91	0.51
44:DK:88:HIS:CE1	44:DK:89:PRO:HD2	2.46	0.51
44:DK:387:VAL:HA	44:DK:390:ARG:HG2	1.91	0.51
45:DL:164:MET:HB2	45:DL:197:ASP:H	1.76	0.51
45:DL:331:LEU:HD11	44:DM:177:VAL:HG22	1.93	0.51
45:DN:64:ILE:HG21	45:DN:119:VAL:CG1	2.27	0.51
44:EA:169:PHE:O	44:EA:204:LEU:HD12	2.10	0.51
44:EA:211:ASP:HB3	44:EA:215:ARG:HH12	1.76	0.51
44:EA:215:ARG:NH2	44:EA:299:ALA:O	2.44	0.51
45:EB:318:ARG:HD3	45:EB:358:PRO:HD3	1.92	0.51
44:EC:17:GLY:HA2	44:EC:20:CYS:SG	2.50	0.51
44:EC:287:SER:O	44:EC:290:GLU:HG2	2.11	0.51
45:ED:66:MET:HE2	45:ED:112:LEU:CD2	2.40	0.51
45:ED:246:LEU:HD11	46:EE:501:GTP:C8	2.46	0.51
44:EE:11:GLN:HE22	44:EE:74:VAL:HG21	1.76	0.51
44:EE:103:PHE:HE1	44:EE:148:GLY:HA2	1.76	0.51
44:EE:167:LEU:CD2	44:EE:252:ILE:HD11	2.40	0.51
44:EI:88:HIS:HB3	44:EI:91:GLN:HG2	1.93	0.51
44:EI:333:ALA:HA	44:EI:336:LYS:NZ	2.26	0.51
45:EJ:67:ASP:OD2	45:EJ:72:THR:HG21	2.10	0.51
45:EL:182:PRO:HB2	45:EL:388:MET:HE2	1.92	0.51
45:EL:311:LEU:HB2	45:EL:370:ASN:O	2.11	0.51
45:EL:406:MET:O	45:EL:410:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:296:PHE:CD2	44:EM:335:ILE:HD12	2.44	0.51
45:EN:99:ASN:CA	45:EN:142:GLY:HA3	2.41	0.51
45:EN:178:THR:HG22	45:EN:180:VAL:HG12	1.92	0.51
45:EN:182:PRO:HG3	45:EN:384:GLN:OE1	2.11	0.51
45:FB:380:ARG:HA	45:FB:383:GLU:HB3	1.93	0.51
45:FD:235:GLY:HA3	45:FD:366:THR:CB	2.41	0.51
45:FD:269:GLY:HA2	45:FD:300:MET:CE	2.40	0.51
44:FE:70:LEU:CD2	44:FE:114:ILE:HG13	2.40	0.51
45:FF:257:LEU:HD11	45:FF:314:SER:HB3	1.92	0.51
44:FG:220:GLU:OE1	44:FG:221:ARG:HG2	2.09	0.51
44:FG:259:LEU:HD21	44:FG:316:SER:HB2	1.93	0.51
44:FG:263:PRO:HD3	45:FJ:396:HIS:ND1	2.26	0.51
44:FI:145:THR:HG22	46:FI:501:GTP:PG	2.50	0.51
45:FJ:221:THR:HG23	45:FJ:224:ASP:H	1.76	0.51
44:FK:265:ILE:HG12	44:FK:432:TYR:CE1	2.46	0.51
45:FN:149:THR:HA	45:FN:152:ILE:CG1	2.40	0.51
45:FN:150:LEU:O	45:FN:154:LYS:NZ	2.38	0.51
45:FN:370:ASN:OD1	45:FN:422:TYR:OH	2.28	0.51
44:GA:5:ILE:HG12	44:GA:64:ARG:CB	2.38	0.51
45:GB:203:ASP:O	45:GB:206:ALA:HB3	2.10	0.51
44:GC:188:ILE:HD12	44:GC:425:LEU:CD1	2.41	0.51
45:GD:68:LEU:HG	45:GD:96:GLY:N	2.25	0.51
44:GE:20:CYS:HA	44:GE:232:ALA:CB	2.39	0.51
44:GE:250:VAL:HG11	44:GE:318:MET:SD	2.50	0.51
44:GI:14:ILE:HG21	44:GI:74:VAL:HG12	1.91	0.51
44:GI:114:ILE:O	44:GI:114:ILE:HG22	2.11	0.51
45:GJ:97:ALA:CB	45:GJ:143:THR:HB	2.40	0.51
45:GJ:221:THR:HG23	45:GJ:224:ASP:H	1.74	0.51
44:GK:69:ASP:OD2	44:GK:74:VAL:HG21	2.10	0.51
45:GL:182:PRO:HB3	45:GL:384:GLN:HG3	1.91	0.51
44:GM:298:PRO:CA	44:GM:307:PRO:HG3	2.40	0.51
45:GN:342:VAL:HG21	45:GN:344:TRP:NE1	2.25	0.51
44:HA:203:MET:H	44:HA:269:LEU:HA	1.75	0.51
44:HA:291:ILE:HG13	44:HA:292:THR:N	2.26	0.51
44:HA:331:SER:O	44:HA:335:ILE:HG12	2.10	0.51
44:HC:288:VAL:HA	44:HC:291:ILE:CD1	2.41	0.51
45:HD:248:SER:HB2	45:HD:252:LYS:HD2	1.91	0.51
44:HE:261:PRO:HA	45:HH:394:PHE:HD1	1.74	0.51
44:HG:137:VAL:HG11	44:HG:154:LEU:HD21	1.92	0.51
45:HH:83:GLN:O	45:IH:281:TYR:OH	2.21	0.51
45:HH:238:CYS:HB3	45:HH:318:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:274:THR:CG2	45:HH:279:GLN:HA	2.41	0.51
44:HI:91:GLN:HG3	44:HI:92:LEU:HD12	1.92	0.51
45:HJ:58:ARG:NH2	45:IJ:281:TYR:OH	2.44	0.51
45:HJ:165:GLU:OE2	45:HJ:250:LEU:HD11	2.11	0.51
45:HJ:237:THR:HG23	45:HJ:241:ARG:NH2	2.19	0.51
45:HJ:295:ASP:CG	45:HJ:297:LYS:HG2	2.31	0.51
44:HK:109:THR:HG22	44:HK:110:ILE:HG23	1.91	0.51
45:HL:130:LEU:HB3	45:HL:162:ARG:HD2	1.93	0.51
44:HM:203:MET:HA	44:HM:203:MET:CE	2.40	0.51
44:HM:242:LEU:HD13	44:HM:252:ILE:N	2.25	0.51
44:HM:287:SER:N	44:HM:290:GLU:OE2	2.30	0.51
44:HM:396:ASP:OD2	44:HM:422:ARG:NE	2.42	0.51
45:HN:178:THR:CG2	45:HN:179:VAL:H	2.22	0.51
44:IA:10:GLY:N	44:IA:68:LEU:O	2.42	0.51
44:IA:407:TRP:HE1	45:IB:258:ILE:HG23	1.75	0.51
45:IB:264:HIS:HA	45:IB:266:PHE:CZ	2.46	0.51
44:IC:4:VAL:HG23	44:IC:134:GLY:O	2.10	0.51
44:IC:196:GLU:OE1	44:IC:196:GLU:N	2.43	0.51
44:IE:291:ILE:HG13	44:IE:292:THR:N	2.24	0.51
45:IH:99:ASN:HA	45:IH:142:GLY:HA3	1.91	0.51
45:IH:185:ALA:O	45:IH:189:VAL:HG23	2.10	0.51
45:IH:200:MET:HG2	45:IH:266:PHE:CB	2.10	0.51
44:II:275:ILE:O	44:II:275:ILE:CG2	2.57	0.51
45:IJ:99:ASN:HA	45:IJ:142:GLY:HA3	1.92	0.51
45:IJ:150:LEU:O	45:IJ:150:LEU:HD23	2.10	0.51
45:IJ:259:PRO:HG2	45:IJ:311:LEU:HG	1.92	0.51
44:IK:19:ALA:HB2	44:IK:228:ASN:CB	2.41	0.51
44:IK:222:PRO:CD	45:IL:324:LYS:HD3	2.41	0.51
45:IL:61:PRO:HD3	45:IL:84:LEU:HB3	1.92	0.51
45:IL:192:LEU:HD12	45:IL:196:ALA:HB2	1.90	0.51
45:IN:325:GLU:CA	45:IN:328:GLU:HG2	2.37	0.51
44:JE:2:ARG:O	44:JE:51:THR:HA	2.10	0.51
44:JE:105:ARG:HH12	45:JF:251:ARG:NH1	2.08	0.51
44:JE:132:LEU:HG	44:JE:164:LYS:HZ3	1.75	0.51
44:JE:172:TYR:HB3	44:JE:173:PRO:HD2	1.93	0.51
44:JE:276:ILE:HG23	44:JE:281:ALA:HB2	1.93	0.51
44:JE:404:PHE:CZ	45:JF:259:PRO:HG3	2.45	0.51
45:JF:262:ARG:C	45:JF:263:LEU:HD23	2.29	0.51
44:JG:118:CYS:O	44:JG:122:ILE:HG12	2.10	0.51
45:JH:310:TYR:CE1	45:JH:371:SER:HB3	2.45	0.51
45:JH:374:ILE:HG13	45:JH:374:ILE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:396:HIS:CD2	45:JJ:397:TRP:CD1	2.99	0.51
44:JK:431:ASP:O	44:JK:435:VAL:HG23	2.10	0.51
44:JM:96:LYS:HD2	44:JM:97:GLU:N	2.26	0.51
44:JM:178:SER:HB3	45:JN:347:ASN:ND2	2.26	0.51
45:JN:24:ILE:HG22	45:JN:51:TYR:HE1	1.75	0.51
45:JN:67:ASP:HA	45:JN:147:MET:HE1	1.92	0.51
45:JN:178:THR:CG2	45:JN:180:VAL:HG12	2.40	0.51
44:KA:174:SER:OG	44:KA:175:PRO:HD2	2.11	0.51
45:KB:295:ASP:OD1	45:KB:296:ALA:N	2.43	0.51
45:KB:314:SER:OG	45:KB:368:VAL:O	2.21	0.51
44:KC:123:ARG:NH2	44:KC:160:ASP:OD1	2.42	0.51
44:KC:284:GLU:OE2	44:KC:285:GLN:N	2.42	0.51
44:KE:289:ALA:O	44:KE:292:THR:HG22	2.09	0.51
45:KF:202:ILE:HD13	45:KF:229:VAL:HG13	1.91	0.51
45:KF:253:LEU:O	45:KF:257:LEU:HG	2.10	0.51
44:KG:210:TYR:HH	44:KG:224:TYR:HE1	1.58	0.51
45:KH:173:PRO:HG3	45:KH:380:ARG:HD3	1.92	0.51
45:KH:429:THR:HG22	45:KH:430:ALA:N	2.26	0.51
44:KI:210:TYR:CE1	44:KI:227:LEU:HD11	2.46	0.51
44:KI:216:ASN:OD1	44:KI:217:LEU:HD23	2.10	0.51
45:KJ:117:LEU:HA	45:KJ:120:VAL:HG12	1.92	0.51
45:KJ:415:MET:O	45:KJ:419:VAL:HG23	2.11	0.51
44:KK:1:MET:O	44:KK:131:GLY:HA3	2.11	0.51
45:KL:198:GLU:OE2	45:KL:254:ALA:HB2	2.10	0.51
45:KN:31:ASP:HB2	45:KN:32:PRO:HD2	1.91	0.51
45:KN:340:TYR:CB	45:KN:341:PHE:HE2	2.22	0.51
44:LA:265:ILE:HD12	44:LA:432:TYR:CD1	2.45	0.51
44:LA:311:LYS:CB	44:LA:344:VAL:HG22	2.41	0.51
45:LB:131:GLN:O	45:LB:162:ARG:HD3	2.10	0.51
44:LC:183:GLU:N	44:LC:184:PRO:HD2	2.25	0.51
45:LD:21:TRP:CZ3	45:LD:61:PRO:HB3	2.45	0.51
44:LE:394:LYS:HD3	45:LF:346:PRO:HG2	1.93	0.51
45:LF:66:MET:HB3	45:LF:91:VAL:CG2	2.40	0.51
45:LF:293:MET:HE1	45:LF:294:PHE:CD2	2.45	0.51
44:LG:121:ARG:CZ	44:LG:121:ARG:HB3	2.41	0.51
44:LG:221:ARG:HD2	45:LH:322:SER:HB3	1.92	0.51
44:LI:20:CYS:HA	44:LI:232:ALA:HB2	1.93	0.51
45:LJ:325:GLU:HA	45:LJ:328:GLU:CG	2.40	0.51
45:LL:11:GLN:HA	45:LL:14:ASN:OD1	2.09	0.51
44:LM:301:MET:CE	44:LM:301:MET:HA	2.40	0.51
44:LM:328:VAL:O	44:LM:332:ILE:HD12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:186:THR:HG23	45:MB:415:MET:SD	2.51	0.51
45:MD:257:LEU:HA	45:MD:312:THR:HG21	1.92	0.51
44:MG:264:ARG:HG2	44:MG:264:ARG:NH1	2.25	0.51
45:MH:267:MET:HG3	45:MH:299:MET:HE2	1.93	0.51
45:MJ:170:VAL:CG2	45:MJ:171:PRO:HD2	2.41	0.51
44:MK:172:TYR:HB3	44:MK:173:PRO:CD	2.40	0.51
44:MK:326:LYS:HD2	44:MK:327:ASP:N	2.26	0.51
45:ML:133:PHE:CD2	45:ML:155:VAL:HG11	2.45	0.51
45:ML:207:LEU:O	45:ML:210:ILE:HG22	2.09	0.51
45:ML:330:MET:CE	45:ML:349:ILE:HG21	2.41	0.51
44:MM:5:ILE:HG23	44:MM:64:ARG:O	2.10	0.51
44:MM:200:VAL:HG13	44:MM:268:MET:HE2	1.92	0.51
44:MM:259:LEU:CD2	44:MM:314:ALA:HB1	2.40	0.51
44:NA:188:ILE:HG13	44:NA:395:PHE:HB2	1.91	0.51
45:NB:342:VAL:O	45:NB:345:ILE:HG22	2.11	0.51
44:NC:184:PRO:O	44:NC:188:ILE:HG12	2.11	0.51
44:NE:306:ASP:HB3	44:NE:309:HIS:ND1	2.25	0.51
44:NE:403:ALA:HA	45:NF:260:PHE:CE1	2.46	0.51
45:NF:217:LEU:H	45:NF:217:LEU:HD23	1.75	0.51
44:NG:317:MET:SD	44:NG:319:TYR:OH	2.61	0.51
45:NH:25:SER:OG	45:NH:30:ILE:O	2.28	0.51
45:NH:416:ASN:O	45:NH:419:VAL:N	2.44	0.51
44:NI:51:THR:HG21	44:NI:243:ARG:CD	2.41	0.51
44:NI:75:ILE:HG21	44:NI:94:SER:HB3	1.91	0.51
44:NI:224:TYR:HE2	45:NJ:323:THR:HG1	1.53	0.51
45:NJ:130:LEU:HD21	45:NJ:133:PHE:HE1	1.74	0.51
45:NJ:318:ARG:HD3	45:NJ:358:PRO:CG	2.30	0.51
45:NL:172:SER:HA	45:NL:380:ARG:NH2	2.25	0.51
44:NM:188:ILE:HG13	44:NM:395:PHE:CG	2.44	0.51
45:NN:23:VAL:HG21	45:NN:230:SER:HB3	1.92	0.51
45:NN:101:TRP:HB3	45:NN:398:TYR:HE1	1.76	0.51
45:NN:254:ALA:HA	45:NN:258:ILE:CD1	2.40	0.51
45:NN:262:ARG:HD3	45:NN:421:GLU:CD	2.31	0.51
44:OA:179:THR:HG21	45:OB:246:LEU:HD23	1.92	0.51
44:OA:333:ALA:HA	44:OA:336:LYS:NZ	2.25	0.51
45:OB:8:GLN:HE21	45:OB:65:LEU:CG	2.22	0.51
45:OB:200:MET:HE1	45:OB:266:PHE:HD2	1.75	0.51
45:OD:113:ILE:CD1	45:OD:151:LEU:HD22	2.40	0.51
44:OE:231:ILE:O	44:OE:235:ILE:N	2.40	0.51
45:OF:311:LEU:HD13	45:OF:372:THR:HG23	1.93	0.51
45:OF:393:ALA:O	45:OF:395:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:51:THR:HG23	44:OG:52:PHE:CD2	2.46	0.51
44:OG:165:SER:HB3	44:OG:256:GLN:OE1	2.10	0.51
44:OI:99:ALA:CB	44:OI:145:THR:HB	2.41	0.51
44:OK:102:ASN:O	44:OK:105:ARG:HB2	2.11	0.51
44:OK:174:SER:HB3	44:OK:207:GLU:HB2	1.93	0.51
44:OK:213:CYS:HA	44:OK:217:LEU:CB	2.33	0.51
45:OL:311:LEU:HA	45:OL:342:VAL:CG2	2.40	0.51
44:OM:11:GLN:HE22	45:ON:247:ASN:N	2.07	0.51
44:OM:72:PRO:HD2	45:ON:2:ARG:NH1	2.26	0.51
44:OM:168:GLY:N	44:OM:200:VAL:O	2.41	0.51
44:OM:223:THR:CG2	44:OM:225:THR:HG23	2.41	0.51
44:OM:268:MET:HG3	44:OM:380:ASN:CA	2.37	0.51
44:OM:407:TRP:CZ2	45:ON:258:ILE:HB	2.45	0.51
45:ON:32:PRO:HG3	45:ON:81:PHE:CG	2.44	0.51
45:ON:251:ARG:O	45:ON:254:ALA:HB3	2.11	0.51
45:PB:113:ILE:CD1	45:PB:150:LEU:HD22	2.40	0.51
45:PB:208:TYR:CE1	45:PB:225:LEU:HD11	2.45	0.51
44:PC:101:ASN:OD1	44:PC:143:GLY:HA2	2.11	0.51
44:PC:294:SER:HB3	44:PC:300:ASN:ND2	2.25	0.51
44:PE:8:HIS:O	44:PE:68:LEU:N	2.43	0.51
44:PE:274:PRO:HG3	44:PE:286:LEU:CD1	2.41	0.51
44:PE:359:PRO:HB2	44:PE:360:PRO:HD2	1.92	0.51
45:PF:47:ILE:HD13	45:PF:59:TYR:CE2	2.45	0.51
44:PG:109:THR:HG23	44:PG:110:ILE:N	2.26	0.51
44:PG:180:ALA:HA	45:PH:350:LYS:NZ	2.26	0.51
44:PI:5:ILE:HD11	44:PI:132:LEU:HD12	1.93	0.51
44:PI:66:VAL:HG22	44:PI:68:LEU:CD1	2.40	0.51
45:PJ:2:ARG:HG3	45:PJ:240:LEU:HD11	1.93	0.51
45:PJ:167:PHE:CE2	45:PJ:200:MET:HG3	2.46	0.51
45:PJ:311:LEU:HA	45:PJ:342:VAL:HG12	1.91	0.51
45:PL:22:GLU:HA	45:PL:81:PHE:CD2	2.46	0.51
45:PL:135:ILE:CG1	45:PL:166:THR:HG22	2.41	0.51
45:PL:268:ILE:HG22	45:PL:368:VAL:HG22	1.92	0.51
44:PM:97:GLU:CG	44:PM:105:ARG:HH22	2.23	0.51
44:PM:255:PHE:O	44:PM:259:LEU:HB2	2.10	0.51
44:PM:316:SER:HB2	44:PM:352:LYS:HB3	1.92	0.51
45:PN:133:PHE:HB2	45:PN:164:MET:SD	2.50	0.51
45:PN:410:GLU:O	45:PN:413:SER:OG	2.20	0.51
44:QC:145:THR:H	46:QC:501:GTP:PG	2.33	0.51
45:QD:331:LEU:HD22	44:QE:177:VAL:CG2	2.35	0.51
45:QF:216:LYS:HG3	45:QF:275:SER:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:355:ASP:O	45:QF:356:ILE:HD13	2.10	0.51
44:QG:141:VAL:HG22	44:QG:187:SER:HA	1.90	0.51
44:QG:248:LEU:HD23	44:QG:355:ILE:HD12	1.92	0.51
45:QH:234:SER:HA	45:QH:237:THR:CG2	2.41	0.51
45:QH:285:THR:HB	45:QH:287:PRO:HD2	1.93	0.51
45:QJ:285:THR:O	45:QJ:289:LEU:HG	2.10	0.51
45:QJ:309:ARG:HG2	45:QJ:340:TYR:CA	2.18	0.51
44:QK:203:MET:SD	44:QK:269:LEU:HA	2.50	0.51
45:QL:19:LYS:HB3	45:QL:230:SER:CB	2.40	0.51
45:QL:258:ILE:HG22	45:QL:260:PHE:O	2.11	0.51
44:QM:310:GLY:HA3	44:QM:383:ALA:HB2	1.93	0.51
45:QN:304:ASP:OD1	45:QN:305:PRO:HD2	2.11	0.51
45:QN:344:TRP:CE3	45:QN:345:ILE:HB	2.46	0.51
44:RC:60:LYS:HD3	44:SC:283:HIS:CE1	2.46	0.51
45:RD:2:ARG:O	45:RD:2:ARG:HG2	2.10	0.51
45:RD:414:ASN:O	45:RD:417:ASP:HB3	2.11	0.51
44:RE:139:ASN:HB2	44:RE:146:GLY:O	2.10	0.51
44:RE:174:SER:CB	44:RE:207:GLU:HB2	2.41	0.51
45:RF:222:TYR:O	45:RF:226:ASN:N	2.44	0.51
44:RG:87:PHE:HD2	44:RG:92:LEU:HD11	1.75	0.51
44:RG:275:ILE:HA	44:RG:368:LEU:HD11	1.91	0.51
45:RH:210:ILE:HG23	45:RH:214:THR:CG2	2.39	0.51
44:RI:11:GLN:HB3	46:RI:501:GTP:O2B	2.09	0.51
44:RI:144:GLY:N	46:RI:501:GTP:O2G	2.43	0.51
44:RI:269:LEU:HD13	44:RI:305:CYS:SG	2.50	0.51
45:RJ:170:VAL:CG2	45:RJ:171:PRO:HD2	2.41	0.51
45:RJ:267:MET:CG	45:RJ:369:GLY:HA3	2.41	0.51
45:RJ:284:LEU:HD13	45:RJ:362:LYS:HB2	1.93	0.51
44:RK:276:ILE:CG1	44:RK:281:ALA:HA	2.39	0.51
44:RM:317:MET:HG2	44:RM:377:MET:HB3	1.93	0.51
45:RN:290:THR:HA	45:RN:293:MET:SD	2.50	0.51
45:SB:240:LEU:HD12	45:SB:250:LEU:HG	1.92	0.51
45:SB:389:PHE:HZ	45:SB:405:GLU:HB2	1.75	0.51
44:SC:6:SER:OG	44:SC:65:ALA:HA	2.10	0.51
44:SC:52:PHE:HE2	44:SC:243:ARG:NE	2.08	0.51
44:SC:141:VAL:HG23	44:SC:190:SER:OG	2.10	0.51
44:SC:175:PRO:HB2	44:SC:176:GLN:CD	2.30	0.51
44:SC:319:TYR:CZ	44:SC:375:VAL:HG23	2.45	0.51
45:SD:303:ALA:HB1	45:SD:373:ALA:C	2.30	0.51
45:SD:324:LYS:HD3	44:SE:222:PRO:HD2	1.92	0.51
45:SF:224:ASP:HA	45:SF:227:HIS:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:11:GLN:HB3	46:SG:501:GTP:O2A	2.11	0.51
44:SG:308:ARG:CZ	44:SG:308:ARG:HB3	2.41	0.51
45:SH:52:ASN:CG	45:SH:62:ARG:HE	2.14	0.51
44:SI:153:LEU:O	44:SI:157:LEU:HG	2.11	0.51
44:SI:419:SER:O	44:SI:422:ARG:HB3	2.11	0.51
45:SJ:158:GLU:HB2	45:SJ:159:TYR:CE1	2.45	0.51
45:SJ:192:LEU:HD23	45:SJ:265:PHE:HE2	1.76	0.51
44:SK:250:VAL:HG21	44:SK:318:MET:HE3	1.93	0.51
45:SL:21:TRP:CH2	45:SL:63:ALA:HB2	2.46	0.51
45:SN:192:LEU:HD21	45:SN:199:CYS:SG	2.51	0.51
45:TB:86:ARG:HH11	45:UB:281:TYR:HB3	1.76	0.51
44:TC:235:ILE:HA	44:TC:238:LEU:HD21	1.93	0.51
44:TC:239:THR:CA	44:TC:242:LEU:HD12	2.41	0.51
44:TC:273:ALA:HB3	44:TC:375:VAL:CG1	2.40	0.51
44:TC:287:SER:O	44:TC:290:GLU:HG2	2.10	0.51
44:TC:389:SER:HA	44:TC:429:GLU:OE2	2.10	0.51
45:TD:60:VAL:HG12	45:UD:281:TYR:CE2	2.46	0.51
44:TE:23:LEU:HD11	44:TE:361:THR:CG2	2.41	0.51
44:TE:190:SER:O	44:TE:193:SER:HB3	2.11	0.51
45:TF:256:ASN:CB	44:TG:181:VAL:HG22	2.40	0.51
44:TG:242:LEU:CD2	44:TG:252:ILE:HG13	2.28	0.51
45:TH:256:ASN:CG	45:TH:350:LYS:HD2	2.31	0.51
45:TH:317:PHE:HD1	45:TH:365:VAL:HG13	1.76	0.51
44:TK:72:PRO:HB2	44:TK:76:ASP:OD2	2.10	0.51
44:TK:115:VAL:CG2	44:TK:152:LEU:HD23	2.18	0.51
44:TK:377:MET:O	44:TK:378:ILE:HD13	2.11	0.51
45:TL:64:ILE:C	45:TL:65:LEU:HD12	2.31	0.51
44:TM:141:VAL:HG13	44:TM:187:SER:OG	2.10	0.51
44:TM:250:VAL:HG21	44:TM:318:MET:SD	2.51	0.51
44:TM:326:LYS:HD3	45:TN:212:PHE:HZ	1.74	0.51
44:TM:348:PRO:HD2	45:TN:388:MET:CE	2.41	0.51
45:TN:310:TYR:HB2	45:TN:341:PHE:CD2	2.46	0.51
44:UA:103:PHE:CD2	44:UA:189:LEU:HD13	2.45	0.51
44:UA:161:TYR:HB3	44:UA:164:LYS:HG3	1.92	0.51
44:UA:318:MET:HG2	44:UA:376:CYS:O	2.11	0.51
44:UC:149:LEU:O	44:UC:153:LEU:HG	2.10	0.51
45:UD:64:ILE:HG12	45:UD:120:VAL:HG22	1.92	0.51
45:UD:72:THR:O	45:UD:75:SER:OG	2.16	0.51
45:UD:149:THR:O	45:UD:152:ILE:N	2.41	0.51
45:UD:183:TYR:HE2	45:UD:394:PHE:HB2	1.75	0.51
44:UE:60:LYS:HZ3	44:VC:283:HIS:CE1	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:88:HIS:HD2	44:VC:283:HIS:HB3	1.70	0.51
44:UE:115:VAL:HG21	44:UE:152:LEU:HD23	1.92	0.51
44:UE:208:ALA:O	44:UE:212:ILE:HG12	2.10	0.51
44:UE:326:LYS:HB3	45:UF:208:TYR:CE1	2.45	0.51
44:UE:326:LYS:HE2	45:UF:219:THR:HG22	1.92	0.51
45:UF:113:ILE:HG12	45:UF:154:LYS:HE2	1.93	0.51
45:UF:256:ASN:HB3	44:UG:181:VAL:HG22	1.91	0.51
45:UH:20:PHE:CE1	45:UH:24:ILE:HD11	2.45	0.51
45:UH:62:ARG:HG3	45:UH:62:ARG:O	2.10	0.51
45:UH:330:MET:CG	45:UH:349:ILE:HG21	2.41	0.51
44:UI:2:ARG:HA	44:UI:131:GLY:O	2.11	0.51
45:UL:238:CYS:SG	45:UL:318:ARG:NH2	2.84	0.51
44:UM:174:SER:HB2	44:UM:177:VAL:O	2.09	0.51
44:UM:244:PHE:CB	44:UM:356:ASN:HD21	2.21	0.51
44:VA:3:GLU:OE1	44:VA:3:GLU:N	2.43	0.51
44:VA:268:MET:HB2	44:VA:380:ASN:HA	1.91	0.51
45:VB:310:TYR:HE1	45:VB:371:SER:HB2	1.76	0.51
44:VC:101:ASN:HA	44:VC:144:GLY:CA	2.39	0.51
44:VC:161:TYR:HB3	44:VC:164:LYS:HE2	1.93	0.51
44:VC:184:PRO:O	44:VC:187:SER:OG	2.17	0.51
44:VC:233:GLN:O	44:VC:236:SER:N	2.44	0.51
44:VC:371:VAL:O	44:VC:371:VAL:HG23	2.10	0.51
45:VD:25:SER:O	45:VD:29:GLY:N	2.43	0.51
45:VD:186:THR:OG1	45:VD:415:MET:SD	2.69	0.51
45:VH:2:ARG:CZ	45:VH:240:LEU:HG	2.41	0.51
44:VI:119:LEU:O	44:VI:122:ILE:HB	2.11	0.51
44:VI:398:MET:HE3	45:VJ:345:ILE:HD12	1.93	0.51
45:VJ:372:THR:O	45:VJ:375:GLN:HG2	2.11	0.51
44:VK:174:SER:HB3	44:VK:207:GLU:HB2	1.93	0.51
44:VK:210:TYR:CD1	45:VL:324:LYS:HD2	2.46	0.51
44:VK:288:VAL:HA	44:VK:291:ILE:CD1	2.41	0.51
44:VK:340:THR:HG23	44:VK:341:ILE:HG13	1.90	0.51
45:VL:178:THR:O	45:VL:181:GLU:HG3	2.09	0.51
45:VL:183:TYR:O	45:VL:186:THR:HB	2.11	0.51
44:VM:354:GLY:C	44:VM:355:ILE:HG13	2.29	0.51
45:VN:101:TRP:CB	45:VN:398:TYR:HE2	2.23	0.51
44:WA:202:VAL:HG12	44:WA:268:MET:SD	2.50	0.51
44:WA:310:GLY:C	44:WA:311:LYS:HD3	2.31	0.51
44:WA:325:PRO:O	44:WA:328:VAL:HB	2.11	0.51
45:WB:121:ARG:O	45:WB:125:GLU:HB2	2.11	0.51
44:WC:13:GLY:HA2	44:WC:16:VAL:CG1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:139:ASN:OD1	44:WC:170:THR:HG22	2.11	0.51
45:WD:256:ASN:C	45:WD:257:LEU:HD12	2.31	0.51
45:WD:258:ILE:HG13	45:WD:266:PHE:CZ	2.46	0.51
45:WD:267:MET:HE1	45:WD:299:MET:HG2	1.93	0.51
45:WD:274:THR:H	45:WD:282:ARG:NH2	2.08	0.51
44:WE:338:LYS:HZ3	44:WE:340:THR:CG2	2.23	0.51
45:WF:21:TRP:CH2	45:WF:61:PRO:HB3	2.46	0.51
45:WF:113:ILE:HA	45:WF:116:VAL:CG1	2.36	0.51
44:WG:9:VAL:CG1	44:WG:139:ASN:HB3	2.41	0.51
44:WG:207:GLU:OE1	44:WG:304:LYS:HG2	2.11	0.51
44:WK:271:SER:HB2	44:WK:377:MET:SD	2.51	0.51
44:WM:212:ILE:HA	44:WM:215:ARG:NH1	2.25	0.51
45:WN:163:ILE:HG23	45:WN:251:ARG:CZ	2.41	0.51
3:OB:65:TRP:NE1	45:JH:221:THR:HB	2.25	0.51
20:1J:196:GLN:HA	44:IG:370:LYS:HZ1	1.73	0.51
15:1V:34:THR:H	44:MI:304:LYS:HZ1	1.58	0.51
2:2A:36:ARG:HD2	45:MJ:243:PRO:HB2	1.92	0.51
30:2G:37:LYS:CD	45:JJ:77:ARG:HH22	2.22	0.51
21:2K:290:GLN:CB	45:GL:362:LYS:HD3	2.40	0.51
24:2O:235:MET:HE1	45:VJ:279:GLN:HB3	1.92	0.51
2:3A:43:TRP:NE1	44:MM:82:THR:HG21	2.26	0.51
15:3V:69:SER:OG	45:MB:336:LYS:O	2.28	0.51
37:5D:34:PHE:HE1	44:KK:428:LEU:CA	2.24	0.51
37:5D:45:TYR:CD1	45:KN:391:ARG:O	2.63	0.51
38:5F:196:GLU:HG2	38:5F:196:GLU:O	2.09	0.51
38:5H:22:LYS:HB2	38:5H:29:LYS:HZ2	1.76	0.51
39:5I:72:PHE:HA	39:5I:75:ILE:CD1	2.40	0.51
39:5J:44:ARG:NH1	44:JE:423:GLU:HA	2.25	0.51
11:5Q:68:THR:HG22	11:5Q:70:GLY:H	1.76	0.51
35:5R:29:GLN:HA	45:LJ:74:ASP:OD2	2.10	0.51
35:5R:436:GLU:HB2	45:FJ:280:GLN:OE1	2.11	0.51
35:5R:456:TYR:CE2	44:EI:46:ASP:HA	2.45	0.51
40:6F:23:ILE:HG22	40:6F:24:GLY:N	2.25	0.51
41:6G:86:LYS:HE2	44:VI:283:HIS:HE1	1.75	0.51
41:6G:169:GLN:HA	41:6G:172:LEU:HD21	1.92	0.51
41:6G:282:PHE:CA	41:6G:285:MET:HE2	2.37	0.51
35:7R:133:LYS:HA	35:7R:141:GLN:HE21	1.76	0.51
35:7R:166:ASN:OD1	35:7R:167:VAL:N	2.43	0.51
43:8R:154:UNK:HA	45:PJ:276:ARG:NH2	2.25	0.51
44:AA:269:LEU:HD23	44:AA:269:LEU:H	1.76	0.51
45:AB:269:GLY:HA3	45:AB:299:MET:HE1	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:46:ASP:O	44:AC:47:ASP:HB3	2.11	0.51
44:AC:118:CYS:O	44:AC:122:ILE:HG12	2.10	0.51
44:AC:188:ILE:HA	44:AC:191:THR:HG22	1.92	0.51
44:AC:292:THR:O	44:AC:295:ALA:HB3	2.11	0.51
45:AD:169:VAL:HA	45:AD:202:ILE:O	2.10	0.51
45:AD:269:GLY:HA2	45:AD:300:MET:HE3	1.92	0.51
44:AE:262:TYR:HB3	44:AE:263:PRO:HD2	1.93	0.51
44:AE:275:ILE:HG13	44:AE:275:ILE:O	2.10	0.51
45:AF:107:THR:HG23	45:AF:108:GLU:N	2.26	0.51
45:AF:202:ILE:CG2	45:AF:300:MET:HE2	2.40	0.51
45:AH:398:TYR:HD1	45:AH:408:PHE:CZ	2.27	0.51
45:AJ:257:LEU:HD21	45:AJ:314:SER:HB2	1.93	0.51
44:AK:287:SER:O	44:AK:291:ILE:HG23	2.11	0.51
44:AM:182:VAL:O	44:AM:182:VAL:HG22	2.11	0.51
45:AN:169:VAL:HA	45:AN:202:ILE:O	2.10	0.51
45:AN:412:GLU:OE2	45:AN:415:MET:HE2	2.11	0.51
44:BC:103:PHE:HB3	44:BC:408:TYR:CE2	2.44	0.51
44:BC:210:TYR:HE1	44:BC:227:LEU:HD11	1.74	0.51
45:BD:235:GLY:HA3	45:BD:366:THR:HG21	1.91	0.51
45:BD:286:VAL:HG22	45:BD:321:MET:SD	2.51	0.51
45:BD:317:PHE:N	45:BD:352:SER:O	2.44	0.51
44:BE:34:GLY:O	44:BE:60:LYS:HA	2.10	0.51
44:BE:326:LYS:CE	45:BH:208:TYR:CD2	2.93	0.51
45:BF:65:LEU:HD11	45:BF:85:PHE:CE2	2.46	0.51
45:BF:163:ILE:HA	45:BF:197:ASP:OD2	2.11	0.51
45:BF:260:PHE:HB3	45:BF:261:PRO:HD2	1.93	0.51
44:BG:252:ILE:HA	44:BG:255:PHE:CZ	2.45	0.51
44:BG:276:ILE:HD11	44:BG:280:LYS:O	2.10	0.51
45:BH:165:GLU:OE2	45:BH:250:LEU:HD22	2.10	0.51
45:BH:206:ALA:HB3	45:BH:300:MET:O	2.10	0.51
44:BI:191:THR:CG2	44:BI:425:LEU:HD21	2.41	0.51
45:BN:24:ILE:H	45:BN:24:ILE:HD12	1.76	0.51
45:BN:232:ALA:CB	45:BN:268:ILE:HD12	2.32	0.51
44:CA:258:ASN:ND2	44:CA:352:LYS:HD3	2.25	0.51
44:CA:363:VAL:HG23	44:CA:364:PRO:HD2	1.91	0.51
45:CB:211:CYS:HA	45:CB:215:LEU:CD1	2.40	0.51
45:CB:342:VAL:CG1	45:CB:348:ASN:HD22	2.24	0.51
45:CB:378:PHE:HB3	45:CB:419:VAL:HG21	1.92	0.51
44:CE:104:ALA:CB	44:CE:413:MET:HG2	2.39	0.51
44:CE:349:THR:O	45:CF:179:VAL:HG23	2.10	0.51
44:CG:26:LEU:HD21	44:CG:364:PRO:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:276:ILE:HD13	44:CG:281:ALA:HA	1.92	0.51
44:CG:386:GLU:O	44:CG:390:ARG:HG2	2.10	0.51
45:CH:263:LEU:HG	45:CH:422:TYR:CD2	2.45	0.51
45:CH:267:MET:HB2	45:CH:301:CYS:SG	2.51	0.51
45:CJ:7:ILE:O	45:CJ:135:ILE:HA	2.11	0.51
45:CJ:135:ILE:HG13	45:CJ:152:ILE:HD11	1.92	0.51
45:CJ:257:LEU:HD11	45:CJ:314:SER:CB	2.40	0.51
45:CL:107:THR:HG21	45:CL:401:GLU:HB3	1.93	0.51
45:CL:183:TYR:OH	45:CL:389:PHE:HA	2.11	0.51
45:CL:202:ILE:HD13	45:CL:300:MET:CE	2.34	0.51
44:CM:104:ALA:HB2	44:CM:413:MET:HE2	1.92	0.51
44:CM:311:LYS:CD	44:CM:342:GLN:HG3	2.40	0.51
45:CN:183:TYR:CE2	45:CN:394:PHE:HB2	2.45	0.51
45:DB:182:PRO:O	45:DB:186:THR:HG23	2.11	0.51
44:DC:348:PRO:CB	45:DD:384:GLN:HG3	2.41	0.51
45:DF:130:LEU:O	45:DF:162:ARG:HD2	2.10	0.51
45:DH:267:MET:N	45:DH:369:GLY:O	2.34	0.51
44:DI:287:SER:O	44:DI:290:GLU:HG2	2.11	0.51
45:DJ:288:GLU:O	45:DJ:291:GLN:HG3	2.11	0.51
44:DK:174:SER:HB3	44:DK:175:PRO:CD	2.38	0.51
45:DL:190:HIS:O	45:DL:193:VAL:HG12	2.11	0.51
45:DL:257:LEU:O	45:DL:259:PRO:HD3	2.11	0.51
45:DL:417:ASP:O	45:DL:420:SER:OG	2.21	0.51
44:DM:55:GLU:OE1	44:DM:55:GLU:HA	2.11	0.51
45:DN:64:ILE:HG13	45:DN:89:ASN:ND2	2.25	0.51
45:DN:86:ARG:HE	45:EN:281:TYR:CB	2.23	0.51
44:EA:15:GLN:HG2	44:EA:228:ASN:ND2	2.25	0.51
44:EA:105:ARG:HG2	44:EA:411:GLU:OE1	2.11	0.51
44:EA:398:MET:CE	44:EA:404:PHE:HB2	2.40	0.51
45:EB:256:ASN:HD22	45:EB:350:LYS:HE3	1.74	0.51
44:EC:118:CYS:O	44:EC:122:ILE:HG12	2.10	0.51
45:ED:315:ALA:O	45:ED:352:SER:N	2.43	0.51
44:EE:188:ILE:CG2	44:EE:422:ARG:HH22	2.12	0.51
44:EE:348:PRO:CG	45:EF:384:GLN:HG2	2.41	0.51
44:EG:2:ARG:HD3	44:EG:2:ARG:N	2.25	0.51
44:EG:105:ARG:CG	44:EG:411:GLU:HG3	2.38	0.51
44:EG:175:PRO:HG2	44:EG:304:LYS:HG2	1.91	0.51
44:EG:316:SER:OG	44:EG:352:LYS:HB3	2.11	0.51
45:EH:295:ASP:OD1	45:EH:296:ALA:N	2.43	0.51
44:EI:70:LEU:HB2	44:EI:145:THR:OG1	2.11	0.51
45:EJ:345:ILE:O	45:EJ:345:ILE:HG23	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:105:ARG:O	44:EM:110:ILE:HG12	2.10	0.51
44:EM:136:LEU:CD2	44:EM:167:LEU:HD22	2.40	0.51
44:EM:136:LEU:HD22	44:EM:167:LEU:HD22	1.92	0.51
44:EM:183:GLU:HG2	44:EM:184:PRO:CD	2.41	0.51
44:FA:11:GLN:O	44:FA:15:GLN:HG2	2.11	0.51
45:FB:8:GLN:O	45:FB:66:MET:HG2	2.11	0.51
45:FB:403:MET:HG2	45:FB:404:ASP:N	2.26	0.51
45:FB:414:ASN:O	45:FB:417:ASP:HB3	2.11	0.51
45:FD:54:ALA:CB	45:GD:283:ALA:HB2	2.40	0.51
45:FD:87:PRO:HD3	45:GD:281:TYR:HD2	1.75	0.51
45:FD:304:ASP:HB3	45:FD:307:HIS:CD2	2.46	0.51
44:FE:221:ARG:HH11	45:FF:325:GLU:H	1.59	0.51
44:FE:362:VAL:HG23	44:FE:368:LEU:O	2.10	0.51
44:FG:1:MET:O	44:FG:1:MET:HG2	2.11	0.51
44:FG:141:VAL:HG21	44:FG:172:TYR:HE1	1.76	0.51
44:FG:238:LEU:HD11	44:FG:255:PHE:CE2	2.46	0.51
44:FG:329:ASN:OD1	44:FG:330:ALA:N	2.44	0.51
45:FH:192:LEU:HD12	45:FH:196:ALA:HB2	1.93	0.51
45:FH:193:VAL:HA	45:FH:264:HIS:HE1	1.74	0.51
45:FJ:287:PRO:O	45:FJ:290:THR:HG22	2.10	0.51
44:FK:166:LYS:O	44:FK:199:ASP:HB2	2.10	0.51
45:FN:1:MET:HA	45:FN:129:CYS:HB3	1.91	0.51
44:GA:363:VAL:HG23	44:GA:364:PRO:HD2	1.93	0.51
45:GB:67:ASP:OD1	45:GB:68:LEU:N	2.43	0.51
44:GC:93:ILE:HD12	44:GC:93:ILE:H	1.75	0.51
44:GC:182:VAL:C	44:GC:184:PRO:HD2	2.31	0.51
44:GE:306:ASP:OD1	44:GE:308:ARG:N	2.27	0.51
45:GF:7:ILE:HD11	45:GF:120:VAL:CG2	2.40	0.51
45:GF:344:TRP:HB3	45:GF:430:ALA:HB2	1.92	0.51
44:GG:69:ASP:OD2	44:GG:74:VAL:HG21	2.10	0.51
44:GG:201:ALA:HB3	44:GG:267:PHE:CD1	2.45	0.51
45:GJ:23:VAL:HG11	45:GJ:230:SER:HB3	1.91	0.51
45:GJ:315:ALA:C	45:GJ:316:LEU:HD12	2.31	0.51
45:GL:240:LEU:HD23	45:GL:240:LEU:O	2.10	0.51
44:GM:252:ILE:HG23	44:GM:255:PHE:CD2	2.46	0.51
45:GN:12:CYS:O	45:GN:16:ILE:HG13	2.11	0.51
45:GN:320:ARG:HH22	45:GN:356:ILE:HD11	1.75	0.51
44:HA:8:HIS:HB2	44:HA:67:PHE:HD1	1.76	0.51
44:HA:191:THR:HA	44:HA:194:LEU:CG	2.41	0.51
44:HA:258:ASN:CA	45:HD:179:VAL:HG21	2.38	0.51
44:HC:313:MET:CE	44:HC:382:THR:HG22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:324:VAL:HG12	44:HC:327:ASP:OD2	2.11	0.51
44:HE:258:ASN:HA	45:HH:179:VAL:CG2	2.39	0.51
44:HG:202:VAL:HG22	44:HG:268:MET:SD	2.51	0.51
45:HH:174:LYS:HD2	45:HH:175:VAL:HG13	1.92	0.51
45:HH:362:LYS:HG2	45:HH:362:LYS:O	2.10	0.51
45:HJ:62:ARG:HG3	45:HJ:62:ARG:O	2.10	0.51
45:HJ:102:ALA:HB1	45:HJ:401:GLU:HB2	1.92	0.51
45:HJ:325:GLU:HA	45:HJ:328:GLU:HG2	1.93	0.51
45:HJ:403:MET:HA	45:HJ:403:MET:HE3	1.92	0.51
45:HN:105:HIS:CD2	45:HN:150:LEU:HD23	2.46	0.51
44:IA:189:LEU:HD21	44:IA:418:PHE:CD1	2.46	0.51
45:IB:113:ILE:HD13	45:IB:154:LYS:HD2	1.92	0.51
45:IB:171:PRO:CB	45:IB:181:GLU:HB3	2.41	0.51
45:IB:233:MET:O	45:IB:236:VAL:HG23	2.10	0.51
44:IC:68:LEU:HD21	44:IC:118:CYS:SG	2.50	0.51
44:IE:181:VAL:HG21	45:IF:256:ASN:O	2.10	0.51
45:IF:210:ILE:HG23	45:IF:214:THR:HG21	1.93	0.51
44:IG:141:VAL:HG11	44:IG:172:TYR:HA	1.92	0.51
44:IG:170:THR:C	44:IG:171:ILE:HD12	2.31	0.51
45:IH:193:VAL:HA	45:IH:264:HIS:HE1	1.75	0.51
45:IH:300:MET:HA	45:IH:300:MET:HE2	1.91	0.51
45:IJ:285:THR:H	45:IJ:288:GLU:HG2	1.74	0.51
44:IK:270:SER:HB3	44:IK:378:ILE:CD1	2.40	0.51
45:IL:376:GLU:CG	45:IL:380:ARG:HH21	2.21	0.51
44:IM:93:ILE:HD12	44:IM:93:ILE:H	1.75	0.51
45:IN:238:CYS:HB2	45:IN:318:ARG:NH2	2.25	0.51
45:IN:398:TYR:O	45:IN:403:MET:HB2	2.10	0.51
44:JA:169:PHE:HB3	44:JA:204:LEU:HD11	1.93	0.51
45:JD:69:GLU:CD	45:JD:71:GLY:H	2.12	0.51
44:JE:221:ARG:HG3	45:JF:325:GLU:CD	2.31	0.51
44:JE:413:MET:HE2	44:JE:417:GLU:CD	2.31	0.51
44:JG:5:ILE:HD11	44:JG:126:ALA:HA	1.93	0.51
44:JG:9:VAL:HG21	44:JG:149:LEU:HD23	1.90	0.51
44:JG:291:ILE:HG13	44:JG:292:THR:N	2.26	0.51
45:JH:239:CYS:SG	45:JH:248:SER:N	2.81	0.51
44:JK:31:GLN:HE22	44:JK:35:GLN:HB3	1.76	0.51
44:JK:119:LEU:CG	44:JK:156:ARG:HG2	2.40	0.51
45:JL:20:PHE:O	45:JL:24:ILE:HG12	2.11	0.51
45:JL:28:HIS:NE2	45:JL:241:ARG:HD2	2.25	0.51
44:JM:85:GLN:OE1	44:JM:85:GLN:N	2.31	0.51
45:JN:253:LEU:HD23	45:JN:257:LEU:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:256:ASN:HD22	45:JN:350:LYS:HD2	1.73	0.51
45:JN:321:MET:HE2	45:JN:326:VAL:HG23	1.92	0.51
44:KA:17:GLY:HA2	44:KA:20:CYS:SG	2.51	0.51
44:KA:70:LEU:HD11	44:KA:149:LEU:HD21	1.91	0.51
44:KA:252:ILE:HD12	44:KA:252:ILE:H	1.76	0.51
44:KA:288:VAL:HA	44:KA:291:ILE:HG12	1.91	0.51
44:KA:320:ARG:HG3	44:KA:374:ALA:HB3	1.92	0.51
44:KA:413:MET:CE	44:KA:417:GLU:HG3	2.40	0.51
45:KB:290:THR:HG21	45:KB:329:GLN:HG3	1.91	0.51
44:KC:387:VAL:HA	44:KC:390:ARG:NH1	2.25	0.51
44:KG:317:MET:HG2	44:KG:377:MET:CE	2.40	0.51
44:KI:155:GLU:HG3	44:KI:197:HIS:HD2	1.75	0.51
44:KK:229:ARG:HH12	44:KK:366:GLY:HA2	1.75	0.51
44:KK:244:PHE:HB2	44:KK:356:ASN:HD21	1.75	0.51
45:KL:47:ILE:HD13	45:KL:59:TYR:HE2	1.75	0.51
44:LA:328:VAL:HG11	44:LA:353:VAL:HG11	1.91	0.51
45:LD:287:PRO:O	45:LD:290:THR:HG22	2.10	0.51
44:LE:268:MET:HB2	44:LE:379:SER:C	2.31	0.51
45:LF:7:ILE:HG13	45:LF:7:ILE:O	2.10	0.51
45:LF:173:PRO:HD2	45:LF:174:LYS:HZ3	1.74	0.51
45:LF:268:ILE:HA	45:LF:367:PHE:O	2.11	0.51
45:LH:33:THR:O	45:LH:33:THR:HG22	2.11	0.51
44:LM:103:PHE:O	44:LM:106:GLY:N	2.44	0.51
44:MC:108:TYR:O	44:MC:112:LYS:HG3	2.10	0.51
45:MD:137:HIS:O	45:MD:168:SER:HA	2.11	0.51
45:MD:149:THR:O	45:MD:152:ILE:HG22	2.11	0.51
45:MF:135:ILE:N	45:MF:165:GLU:O	2.43	0.51
45:MH:3:GLU:HB2	45:MH:49:VAL:O	2.11	0.51
45:MH:24:ILE:HD11	45:MH:241:ARG:NH1	2.25	0.51
45:MH:263:LEU:HG	45:MH:422:TYR:HD1	1.75	0.51
45:MH:329:GLN:O	45:MH:332:ASN:HB3	2.11	0.51
45:MJ:46:ARG:HB2	45:MJ:46:ARG:CZ	2.39	0.51
45:MJ:67:ASP:HB3	45:MJ:73:MET:HE2	1.93	0.51
44:NA:2:ARG:HB2	44:NA:133:GLN:HG3	1.93	0.51
44:NA:210:TYR:HB3	45:NB:324:LYS:HZ2	1.76	0.51
44:NA:212:ILE:CD1	44:NA:300:ASN:HA	2.41	0.51
44:NA:274:PRO:HD2	44:NA:374:ALA:CB	2.41	0.51
44:NA:315:CYS:HB3	44:NA:350:GLY:O	2.11	0.51
45:NB:66:MET:CE	45:NB:116:VAL:HG21	2.41	0.51
45:NF:221:THR:HG22	45:NF:222:TYR:N	2.25	0.51
45:NF:238:CYS:SG	45:NF:239:CYS:N	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:62:VAL:HG13	44:NG:62:VAL:O	2.09	0.51
44:NG:244:PHE:CG	44:NG:358:GLN:HG3	2.46	0.51
45:NH:166:THR:HG22	45:NH:199:CYS:HA	1.93	0.51
44:NI:55:GLU:CG	44:NI:57:GLY:H	2.22	0.51
45:NJ:223:GLY:HA2	45:NJ:226:ASN:HD22	1.75	0.51
45:NJ:343:GLU:OE2	45:NJ:429:THR:HA	2.11	0.51
44:NK:323:VAL:CG2	44:NK:355:ILE:HG23	2.40	0.51
45:NL:394:PHE:CD2	45:NL:397:TRP:HZ3	2.29	0.51
44:NM:315:CYS:O	44:NM:352:LYS:N	2.44	0.51
44:OA:169:PHE:HA	44:OA:202:VAL:CG2	2.40	0.51
45:OB:242:PHE:HB3	45:OB:356:ILE:CG1	2.40	0.51
45:OB:322:SER:O	45:OB:325:GLU:HG2	2.10	0.51
45:OD:282:ARG:NH2	45:OD:289:LEU:HD23	2.26	0.51
45:OD:398:TYR:O	45:OD:403:MET:HB3	2.11	0.51
44:OE:88:HIS:O	44:OE:91:GLN:HG2	2.10	0.51
45:OF:21:TRP:HZ2	45:OF:63:ALA:HB2	1.75	0.51
45:OF:164:MET:SD	45:OF:166:THR:OG1	2.69	0.51
44:OI:284:GLU:CG	44:OI:286:LEU:HG	2.38	0.51
44:OI:313:MET:HE3	44:OI:346:TRP:HZ2	1.75	0.51
45:OJ:267:MET:HE1	45:OJ:299:MET:HG2	1.92	0.51
45:OL:20:PHE:CE2	45:OL:24:ILE:HD11	2.46	0.51
45:OL:231:ALA:O	45:OL:234:SER:OG	2.17	0.51
44:OM:206:ASN:HA	44:OM:209:ILE:HD12	1.92	0.51
44:OM:207:GLU:HA	44:OM:210:TYR:CG	2.46	0.51
44:PA:112:LYS:O	44:PA:115:VAL:HG12	2.11	0.51
44:PA:118:CYS:O	44:PA:122:ILE:HG12	2.11	0.51
44:PA:323:VAL:HB	44:PA:373:ARG:HG2	1.93	0.51
45:PB:61:PRO:CG	45:PB:84:LEU:HB3	2.39	0.51
45:PB:186:THR:O	45:PB:190:HIS:N	2.44	0.51
45:PB:235:GLY:HA3	45:PB:366:THR:HG21	1.91	0.51
45:PD:156:ARG:NH2	45:PD:160:PRO:O	2.43	0.51
45:PD:283:ALA:O	45:PD:288:GLU:HG3	2.11	0.51
45:PH:87:PRO:HA	45:PH:90:PHE:CD2	2.45	0.51
44:PI:188:ILE:HD12	44:PI:425:LEU:CD1	2.40	0.51
45:PL:287:PRO:HG3	45:PL:329:GLN:NE2	2.25	0.51
44:PM:181:VAL:HG12	45:PN:347:ASN:O	2.11	0.51
44:PM:404:PHE:CZ	45:PN:259:PRO:HG3	2.45	0.51
44:QA:62:VAL:CG2	44:RA:283:HIS:HB3	2.41	0.51
44:QA:205:ASP:CG	44:QA:304:LYS:H	2.14	0.51
44:QA:252:ILE:HA	44:QA:255:PHE:CE2	2.45	0.51
45:QB:342:VAL:CG1	45:QB:345:ILE:HG22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:71:GLU:OE1	44:QC:73:THR:OG1	2.28	0.51
44:QC:239:THR:OG1	44:QC:243:ARG:NH1	2.37	0.51
45:QD:309:ARG:HB2	45:QD:426:GLN:HE22	1.75	0.51
44:QE:212:ILE:CG2	44:QE:275:ILE:HD13	2.41	0.51
44:QE:269:LEU:CD2	44:QE:384:ILE:HD11	2.32	0.51
44:QE:287:SER:HB3	44:QE:290:GLU:CG	2.40	0.51
45:QF:5:VAL:HG22	45:QF:132:GLY:O	2.10	0.51
45:QF:135:ILE:HG13	45:QF:152:ILE:CD1	2.29	0.51
45:QF:315:ALA:O	45:QF:316:LEU:HD12	2.11	0.51
45:QF:406:MET:O	45:QF:410:GLU:HG3	2.10	0.51
44:QG:13:GLY:CA	44:QG:16:VAL:HG22	2.39	0.51
44:QG:200:VAL:HG13	44:QG:268:MET:HE2	1.93	0.51
45:QH:320:ARG:H	45:QH:320:ARG:HD3	1.76	0.51
45:QL:202:ILE:HD12	45:QL:203:ASP:H	1.76	0.51
45:QL:211:CYS:O	45:QL:215:LEU:HG	2.10	0.51
45:QN:133:PHE:O	45:QN:165:GLU:HB2	2.09	0.51
45:QN:397:TRP:O	45:QN:401:GLU:HG3	2.10	0.51
44:RA:66:VAL:CG1	44:RA:122:ILE:HD11	2.40	0.51
44:RA:209:ILE:HG21	44:RA:227:LEU:CB	2.40	0.51
45:RB:120:VAL:HA	45:RB:123:GLU:CG	2.39	0.51
45:RB:135:ILE:N	45:RB:165:GLU:O	2.42	0.51
45:RB:175:VAL:O	45:RB:175:VAL:HG23	2.10	0.51
45:RB:287:PRO:HB3	45:RB:329:GLN:HE22	1.75	0.51
45:RD:325:GLU:O	45:RD:328:GLU:HG2	2.10	0.51
45:RD:344:TRP:CD2	44:RE:401:LYS:HE3	2.46	0.51
44:RE:348:PRO:HG2	45:RF:384:GLN:NE2	2.23	0.51
45:RF:143:THR:HG21	48:RF:501:GDP:O1B	2.11	0.51
44:RG:19:ALA:CB	44:RG:228:ASN:HB3	2.40	0.51
44:RG:176:GLN:HG2	44:RG:177:VAL:N	2.25	0.51
44:RG:402:ARG:HA	44:RG:405:VAL:HG21	1.92	0.51
45:RJ:13:GLY:O	45:RJ:16:ILE:HB	2.11	0.51
45:RJ:256:ASN:HD22	45:RJ:350:LYS:HD2	1.75	0.51
45:RL:342:VAL:HG13	45:RL:345:ILE:CG2	2.38	0.51
44:RM:320:ARG:HA	44:RM:356:ASN:O	2.10	0.51
45:RN:70:PRO:HG3	45:RN:92:PHE:CD2	2.46	0.51
45:RN:221:THR:HG22	45:RN:224:ASP:OD2	2.11	0.51
44:SA:408:TYR:HB3	44:SA:413:MET:HE2	1.92	0.51
45:SB:314:SER:HA	45:SB:350:LYS:H	1.74	0.51
44:SC:55:GLU:CG	44:SC:57:GLY:H	2.18	0.51
44:SC:104:ALA:HB3	44:SC:408:TYR:HA	1.91	0.51
45:SD:168:SER:O	45:SD:201:VAL:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:172:SER:N	45:SD:173:PRO:HD3	2.25	0.51
45:SF:8:GLN:NE2	45:SF:65:LEU:HG	2.24	0.51
44:SG:56:THR:HG22	44:SG:60:LYS:O	2.10	0.51
44:SG:291:ILE:HG13	44:SG:292:THR:N	2.25	0.51
45:SH:304:ASP:O	45:SH:373:ALA:HB1	2.11	0.51
44:SI:23:LEU:CD2	44:SI:236:SER:HB2	2.39	0.51
44:SM:14:ILE:HD13	44:SM:75:ILE:HD11	1.91	0.51
45:SN:238:CYS:SG	45:SN:239:CYS:N	2.83	0.51
44:TA:1:MET:O	44:TA:131:GLY:HA3	2.10	0.51
44:TA:155:GLU:HG2	44:TA:197:HIS:CE1	2.45	0.51
44:TA:171:ILE:CG2	46:TA:501:GTP:HN22	2.22	0.51
44:TA:224:TYR:O	44:TA:228:ASN:N	2.38	0.51
44:TA:312:TYR:HD1	44:TA:342:GLN:O	1.94	0.51
45:TB:99:ASN:C	45:TB:142:GLY:HA3	2.31	0.51
45:TD:337:ASN:O	45:TD:340:TYR:HB2	2.11	0.51
45:TF:207:LEU:HA	45:TF:300:MET:HE1	1.90	0.51
44:TG:229:ARG:O	44:TG:232:ALA:HB3	2.11	0.51
44:TG:239:THR:OG1	44:TG:243:ARG:NH1	2.41	0.51
45:TH:183:TYR:CE1	45:TH:388:MET:HB3	2.45	0.51
45:TJ:99:ASN:O	45:TJ:142:GLY:HA3	2.11	0.51
44:TK:79:ARG:HG3	44:TK:92:LEU:CD2	2.40	0.51
44:TK:90:GLU:HG3	44:TK:121:ARG:HH22	1.76	0.51
44:TK:387:VAL:CA	44:TK:390:ARG:HG2	2.34	0.51
45:TL:253:LEU:O	45:TL:257:LEU:HB2	2.11	0.51
45:TL:270:PHE:CE2	45:TL:273:LEU:HD21	2.45	0.51
44:TM:248:LEU:CD2	44:TM:353:VAL:HG22	2.39	0.51
44:TM:433:GLU:O	44:TM:437:ILE:HG23	2.11	0.51
45:TN:105:HIS:CE1	45:TN:150:LEU:HD12	2.45	0.51
45:UB:255:VAL:HG21	44:UC:100:ALA:O	2.11	0.51
44:UC:76:ASP:O	44:UC:80:THR:N	2.40	0.51
45:UD:200:MET:CG	45:UD:267:MET:HA	2.30	0.51
45:UF:249:ASP:O	45:UF:252:LYS:N	2.43	0.51
45:UF:330:MET:SD	45:UF:349:ILE:HB	2.50	0.51
44:UG:278:ALA:HA	44:UG:282:TYR:CE2	2.45	0.51
44:UG:318:MET:CE	44:UG:354:GLY:H	2.23	0.51
45:UH:132:GLY:O	45:UH:133:PHE:CD1	2.63	0.51
44:UI:210:TYR:CE1	44:UI:227:LEU:HD11	2.46	0.51
45:UJ:44:LEU:HA	45:UJ:47:ILE:HD11	1.91	0.51
45:UL:331:LEU:HD11	44:UM:176:GLN:CG	2.40	0.51
44:UM:324:VAL:HG12	44:UM:326:LYS:HE2	1.92	0.51
45:UN:395:LEU:HG	45:UN:399:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:188:ILE:HD13	44:VA:395:PHE:CD1	2.45	0.51
44:VA:223:THR:HG22	44:VA:226:ASN:OD1	2.10	0.51
44:VA:274:PRO:CD	44:VA:291:ILE:HD11	2.41	0.51
45:VB:222:TYR:HA	45:VB:225:LEU:HG	1.91	0.51
45:VF:135:ILE:HG13	45:VF:152:ILE:CD1	2.36	0.51
44:VG:14:ILE:HG12	44:VG:75:ILE:CD1	2.40	0.51
45:VH:22:GLU:HG2	45:VH:81:PHE:CD2	2.45	0.51
44:VI:210:TYR:HE1	44:VI:227:LEU:HD21	1.76	0.51
44:VI:238:LEU:HD21	44:VI:255:PHE:CE2	2.46	0.51
44:VK:186:ASN:HA	44:VK:189:LEU:HD12	1.93	0.51
44:VK:270:SER:HB3	44:VK:378:ILE:HD12	1.91	0.51
45:VL:20:PHE:CE1	45:VL:24:ILE:HD11	2.45	0.51
45:VL:99:ASN:HA	45:VL:142:GLY:CA	2.40	0.51
45:VN:63:ALA:O	45:VN:89:ASN:ND2	2.32	0.51
45:VN:324:LYS:HG3	45:VN:325:GLU:N	2.26	0.51
44:WA:221:ARG:HG3	44:WA:221:ARG:O	2.09	0.51
45:WB:2:ARG:O	45:WB:131:GLN:HB2	2.11	0.51
45:WB:290:THR:HG21	45:WB:329:GLN:OE1	2.09	0.51
44:WC:268:MET:HB2	44:WC:379:SER:C	2.29	0.51
44:WC:329:ASN:O	44:WC:332:ILE:HB	2.10	0.51
44:WE:315:CYS:SG	44:WE:379:SER:HB2	2.51	0.51
45:WF:1:MET:C	45:WF:2:ARG:HG2	2.31	0.51
45:WF:241:ARG:HG3	45:WF:242:PHE:CE2	2.45	0.51
45:WF:285:THR:O	45:WF:287:PRO:HD2	2.11	0.51
44:WG:274:PRO:CB	44:WG:291:ILE:HD11	2.40	0.51
45:WH:117:LEU:HD22	45:WH:154:LYS:HD2	1.93	0.51
44:WI:295:ALA:HB1	44:WI:377:MET:HE3	1.91	0.51
44:WK:252:ILE:O	44:WK:255:PHE:HB2	2.10	0.51
44:WK:326:LYS:CE	45:WN:212:PHE:HZ	2.23	0.51
45:WN:345:ILE:O	45:WN:345:ILE:HG23	2.11	0.51
45:WN:398:TYR:HB3	45:WN:403:MET:HE2	1.93	0.51
1:6H:328:ASN:HD22	45:FJ:276:ARG:NH1	2.08	0.51
2:0A:104:ARG:HG3	35:7R:58:ARG:HA	1.92	0.51
3:0B:167:LYS:O	45:JJ:359:LYS:HG3	2.10	0.51
9:0H:415:PRO:HG3	44:GK:58:ALA:HB1	1.92	0.51
18:1F:157:LEU:HD12	45:HL:337:ASN:CG	2.31	0.51
25:1P:207:LYS:NZ	45:TH:218:THR:OG1	2.43	0.51
5:2D:189:GLN:O	44:FI:219:ILE:HD12	2.11	0.51
32:2I:67:LYS:HE2	44:GE:326:LYS:NZ	2.26	0.51
10:2N:10:TYR:OH	45:IB:48:ASN:HA	2.09	0.51
27:2W:208:LEU:HD23	44:LM:372:MET:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:39:TYR:OH	44:MM:78:VAL:HG22	2.10	0.51
32:3I:220:LYS:HZ3	45:GL:332:ASN:HA	1.75	0.51
35:4R:391:PHE:HB2	45:EF:276:ARG:CZ	2.40	0.51
37:5D:26:LYS:HG3	45:KN:408:PHE:CE2	2.46	0.51
37:5D:115:ASP:OD1	44:NM:373:ARG:HA	2.11	0.51
38:5G:9:TYR:HD2	38:5G:15:THR:HG21	1.75	0.51
39:5K:37:GLU:O	39:5K:41:ILE:HG13	2.11	0.51
36:5S:213:ASN:ND2	36:5S:216:ASP:OD2	2.43	0.51
11:6Q:68:THR:HG22	11:6Q:70:GLY:H	1.75	0.51
35:6R:289:GLU:OE1	35:6R:290:ILE:N	2.43	0.51
35:6R:397:SER:OG	45:EN:276:ARG:NE	2.36	0.51
35:7R:350:PHE:CB	35:7R:371:ILE:HB	2.41	0.51
35:7R:470:PHE:O	45:EB:78:ALA:HA	2.11	0.51
42:8L:38:UNK:HA	42:8L:41:UNK:CB	2.41	0.51
44:AA:296:PHE:HE2	44:AA:335:ILE:HG21	1.72	0.51
45:AB:12:CYS:HB3	45:AB:138:SER:HB2	1.92	0.51
45:AB:127:CYS:SG	45:AB:130:LEU:HD13	2.50	0.51
44:AE:115:VAL:HG21	44:AE:152:LEU:HG	1.93	0.51
45:AF:164:MET:H	45:AF:197:ASP:HB2	1.73	0.51
44:AG:238:LEU:HG	44:AG:255:PHE:CE2	2.35	0.51
45:AH:217:LEU:HD11	45:AH:220:PRO:HG3	1.92	0.51
45:AH:270:PHE:HD2	45:AH:273:LEU:HD21	1.76	0.51
45:AH:293:MET:SD	45:AH:365:VAL:HG11	2.51	0.51
45:AJ:317:PHE:CZ	45:AJ:326:VAL:HG23	2.46	0.51
45:AL:139:LEU:HD13	45:AL:168:SER:HB3	1.93	0.51
44:AM:167:LEU:HA	44:AM:200:VAL:HG12	1.91	0.51
45:AN:317:PHE:HB3	45:AN:321:MET:HE2	1.93	0.51
44:BA:406:HIS:NE2	45:BB:261:PRO:HD3	2.25	0.51
45:BD:341:PHE:HD2	45:BD:348:ASN:ND2	2.08	0.51
44:BI:268:MET:HB2	44:BI:379:SER:O	2.11	0.51
44:BI:294:SER:HA	44:BI:297:GLU:HG3	1.93	0.51
44:BK:88:HIS:CE1	44:BK:90:GLU:HG2	2.45	0.51
44:BK:155:GLU:HG2	44:BK:197:HIS:CD2	2.45	0.51
45:BL:174:LYS:HE2	45:BL:205:GLU:HG3	1.92	0.51
44:BM:274:PRO:HG3	44:BM:286:LEU:HD12	1.92	0.51
45:BN:146:GLY:HA2	45:BN:149:THR:CG2	2.41	0.51
44:CA:312:TYR:CE1	44:CA:341:ILE:HG23	2.46	0.51
45:CB:2:ARG:H	45:CB:129:CYS:HB3	1.76	0.51
45:CB:14:ASN:OD1	45:CB:65:LEU:HD23	2.10	0.51
45:CB:42:LEU:CD2	45:CB:356:ILE:HD11	2.41	0.51
45:CB:264:HIS:O	45:CB:265:PHE:HD1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:294:PHE:CE2	45:CB:333:VAL:HG21	2.46	0.51
44:CC:288:VAL:O	44:CC:291:ILE:HG12	2.11	0.51
45:CD:299:MET:HG3	45:CD:305:PRO:HG3	1.93	0.51
45:CF:4:ILE:CG1	45:CF:50:TYR:HE1	2.23	0.51
44:CG:265:ILE:CD1	44:CG:435:VAL:HG21	2.41	0.51
45:CH:135:ILE:HG13	45:CH:152:ILE:HD12	1.92	0.51
45:CJ:113:ILE:O	45:CJ:116:VAL:HG12	2.11	0.51
44:CK:26:LEU:O	44:CK:26:LEU:HG	2.10	0.51
45:CL:235:GLY:HA2	45:CL:238:CYS:HB3	1.93	0.51
45:CL:251:ARG:HH21	44:CM:105:ARG:NH1	2.08	0.51
45:CL:329:GLN:O	45:CL:333:VAL:HG23	2.11	0.51
45:CN:190:HIS:HB2	45:CN:411:ALA:HB1	1.91	0.51
45:CN:211:CYS:HB3	45:CN:217:LEU:HD21	1.92	0.51
44:DA:156:ARG:HA	44:DA:159:VAL:HG12	1.92	0.51
45:DB:50:TYR:HE2	45:DB:237:THR:HG21	1.76	0.51
45:DB:72:THR:O	45:DB:75:SER:OG	2.18	0.51
45:DB:91:VAL:HG21	45:DB:112:LEU:HD21	1.93	0.51
45:DB:117:LEU:CG	45:DB:154:LYS:HZ1	2.24	0.51
45:DB:178:THR:CG2	45:DB:180:VAL:HG12	2.40	0.51
45:DD:114:ASP:OD1	45:DD:115:SER:N	2.43	0.51
44:DE:49:PHE:O	44:DE:53:PHE:HB2	2.10	0.51
45:DF:21:TRP:CZ3	45:DF:61:PRO:HB3	2.46	0.51
45:DF:252:LYS:HG2	45:DF:350:LYS:HZ3	1.75	0.51
44:DG:31:GLN:CG	44:DG:32:PRO:HD2	2.40	0.51
44:DI:22:GLU:HG3	44:DI:83:TYR:HE2	1.76	0.51
44:DI:88:HIS:CG	44:DI:89:PRO:HD2	2.46	0.51
44:DI:310:GLY:HA3	44:DI:383:ALA:N	2.25	0.51
45:DJ:378:PHE:O	45:DJ:382:ALA:N	2.30	0.51
44:DK:432:TYR:CA	44:DK:435:VAL:HG22	2.39	0.51
45:DL:202:ILE:HD13	45:DL:229:VAL:HG11	1.92	0.51
45:DL:375:GLN:NE2	45:DL:423:GLN:HB3	2.26	0.51
44:DM:53:PHE:CE1	44:DM:63:PRO:HG3	2.46	0.51
45:DN:4:ILE:HB	45:DN:132:GLY:O	2.11	0.51
44:EA:310:GLY:HA3	44:EA:383:ALA:CA	2.41	0.51
45:EB:169:VAL:HA	45:EB:202:ILE:HB	1.92	0.51
44:EC:118:CYS:HA	44:EC:121:ARG:NH2	2.26	0.51
44:EE:121:ARG:NE	44:EE:121:ARG:HA	2.26	0.51
44:EE:200:VAL:CG2	44:EE:256:GLN:HB3	2.41	0.51
45:EF:248:SER:OG	45:EF:252:LYS:HD2	2.11	0.51
44:EG:71:GLU:CD	44:EG:73:THR:H	2.14	0.51
45:EH:253:LEU:O	45:EH:257:LEU:HD13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:81:PHE:O	45:EJ:84:LEU:HD13	2.10	0.51
45:EJ:86:ARG:HG2	45:EJ:89:ASN:CG	2.30	0.51
45:EJ:143:THR:HG23	45:EJ:144:GLY:H	1.75	0.51
45:EJ:398:TYR:HB3	45:EJ:403:MET:HG3	1.92	0.51
45:EN:8:GLN:CD	45:EN:65:LEU:HG	2.31	0.51
45:EN:19:LYS:HZ2	45:EN:227:HIS:CA	2.19	0.51
45:EN:36:TYR:CE2	45:EN:44:LEU:HD11	2.45	0.51
44:FA:306:ASP:HB3	44:FA:309:HIS:CG	2.45	0.51
45:FB:157:GLU:O	45:FB:160:PRO:HD3	2.11	0.51
45:FB:192:LEU:HD12	45:FB:196:ALA:HB2	1.93	0.51
45:FD:318:ARG:HD3	45:FD:358:PRO:HD3	1.92	0.51
45:FF:101:TRP:CE3	45:FF:187:LEU:HD13	2.46	0.51
45:FF:334:GLN:HB2	45:FF:349:ILE:CD1	2.41	0.51
44:FG:174:SER:HG	44:FG:207:GLU:H	1.59	0.51
44:FG:188:ILE:HD12	44:FG:425:LEU:CD1	2.41	0.51
44:FG:326:LYS:HE3	45:FJ:220:PRO:CD	2.36	0.51
45:FH:8:GLN:NE2	45:FH:14:ASN:HA	2.25	0.51
45:FH:153:SER:HB2	45:FH:191:GLN:NE2	2.23	0.51
44:FI:130:THR:HG23	44:FI:131:GLY:N	2.26	0.51
44:FI:268:MET:HG3	44:FI:380:ASN:CB	2.34	0.51
44:FK:326:LYS:HA	44:FK:329:ASN:OD1	2.11	0.51
44:FM:203:MET:SD	44:FM:384:ILE:HD11	2.51	0.51
44:FM:212:ILE:HD13	44:FM:215:ARG:HH22	1.75	0.51
45:FN:325:GLU:O	45:FN:329:GLN:NE2	2.44	0.51
45:FN:328:GLU:O	45:FN:331:LEU:HB3	2.11	0.51
45:GB:42:LEU:HA	45:GB:45:GLU:HG3	1.93	0.51
45:GB:221:THR:N	45:GB:224:ASP:OD2	2.40	0.51
45:GD:302:ALA:HB3	45:GD:377:MET:HE2	1.89	0.51
44:GE:174:SER:HB2	44:GE:177:VAL:O	2.11	0.51
45:GH:113:ILE:CD1	45:GH:150:LEU:HD22	2.33	0.51
45:GH:169:VAL:HG23	45:GH:169:VAL:O	2.11	0.51
45:GH:256:ASN:ND2	45:GH:350:LYS:HD2	2.26	0.51
44:GI:88:HIS:HB3	44:GI:91:GLN:HG2	1.93	0.51
45:GJ:72:THR:HG23	45:GJ:73:MET:N	2.26	0.51
45:GL:61:PRO:HD3	45:GL:84:LEU:HB3	1.93	0.51
45:GL:110:ALA:HA	45:GL:113:ILE:HG22	1.93	0.51
44:GM:392:ASP:O	44:GM:395:PHE:HB3	2.11	0.51
45:GN:5:VAL:CG2	45:GN:7:ILE:HD11	2.40	0.51
44:HA:14:ILE:CD1	44:HA:75:ILE:HD11	2.40	0.51
44:HA:201:ALA:O	44:HA:268:MET:HB2	2.10	0.51
45:HB:139:LEU:HA	45:HB:145:SER:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HE:188:ILE:HG23	44:HE:425:LEU:CD1	2.40	0.51
45:HF:4:ILE:HG23	45:HF:131:GLN:HB2	1.91	0.51
45:HF:144:GLY:N	48:HF:502:GDP:O1B	2.43	0.51
45:HF:170:VAL:CG1	45:HF:171:PRO:HD2	2.36	0.51
45:HF:420:SER:O	45:HF:423:GLN:N	2.44	0.51
44:HG:22:GLU:HG3	44:HG:83:TYR:CE2	2.45	0.51
44:HG:124:LYS:HB3	44:HG:124:LYS:HZ3	1.76	0.51
44:HI:229:ARG:NH1	44:HI:367:ASP:OD2	2.42	0.51
45:HJ:28:HIS:NE2	45:HJ:241:ARG:HD2	2.25	0.51
45:HJ:97:ALA:HB2	45:HJ:143:THR:HB	1.91	0.51
45:HJ:221:THR:HG22	45:HJ:222:TYR:N	2.26	0.51
44:HK:103:PHE:CE2	44:HK:189:LEU:HB3	2.46	0.51
44:HK:287:SER:O	44:HK:291:ILE:HG12	2.10	0.51
45:HL:50:TYR:CD2	45:HL:241:ARG:HD3	2.46	0.51
44:HM:254:GLU:HG2	44:HM:258:ASN:OD1	2.11	0.51
44:HM:323:VAL:CG1	44:HM:355:ILE:HG23	2.41	0.51
45:HN:267:MET:HB2	45:HN:299:MET:CE	2.38	0.51
45:HN:316:LEU:O	45:HN:365:VAL:HA	2.11	0.51
45:HN:388:MET:CE	45:HN:394:PHE:HB2	2.41	0.51
44:IA:279:GLU:OE1	44:IA:280:LYS:CD	2.59	0.51
45:IB:257:LEU:HA	45:IB:312:THR:HG21	1.91	0.51
45:ID:163:ILE:HG13	45:ID:163:ILE:O	2.10	0.51
45:ID:204:ASN:HA	45:ID:207:LEU:HD12	1.91	0.51
44:IE:66:VAL:HG11	44:IE:122:ILE:CD1	2.31	0.51
44:IE:328:VAL:HG11	44:IE:353:VAL:CG2	2.41	0.51
45:IF:49:VAL:HG11	45:IF:241:ARG:HD3	1.93	0.51
45:IF:62:ARG:HD2	45:IF:123:GLU:OE2	2.11	0.51
45:IF:262:ARG:NH2	45:IF:418:LEU:HA	2.25	0.51
45:IH:12:CYS:SG	45:IH:138:SER:HB2	2.51	0.51
45:IH:403:MET:HG3	45:IH:407:GLU:OE2	2.10	0.51
44:II:332:ILE:HG23	44:II:351:PHE:HD2	1.73	0.51
45:IJ:391:ARG:HG3	45:IJ:391:ARG:O	2.10	0.51
44:IK:96:LYS:HD3	45:IL:1:MET:HE1	1.93	0.51
44:IK:206:ASN:OD1	44:IK:207:GLU:N	2.43	0.51
45:IN:388:MET:HA	45:IN:388:MET:HE2	1.93	0.51
44:JA:171:ILE:HD13	44:JA:204:LEU:CB	2.36	0.51
45:JB:206:ALA:HB1	45:JB:300:MET:HA	1.93	0.51
45:JD:342:VAL:HG21	45:JD:344:TRP:NE1	2.26	0.51
44:JE:311:LYS:CA	44:JE:342:GLN:HE22	2.18	0.51
45:JF:207:LEU:HB3	45:JF:225:LEU:HD22	1.93	0.51
44:JG:215:ARG:HH22	44:JG:300:ASN:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:350:GLY:HA2	45:JJ:179:VAL:HG12	1.92	0.51
45:JH:165:GLU:HA	45:JH:198:GLU:O	2.10	0.51
45:JH:170:VAL:HG13	45:JH:377:MET:CE	2.41	0.51
44:JI:272:TYR:HB2	44:JI:302:MET:CE	2.40	0.51
45:JJ:193:VAL:HG23	45:JJ:264:HIS:HE1	1.74	0.51
45:JJ:237:THR:HG23	45:JJ:241:ARG:CZ	2.41	0.51
45:JJ:294:PHE:CD2	45:JJ:333:VAL:HG11	2.46	0.51
45:JL:87:PRO:O	45:JL:90:PHE:HB2	2.10	0.51
44:JM:215:ARG:HD2	44:JM:215:ARG:O	2.11	0.51
44:JM:406:HIS:CA	44:JM:409:VAL:HG12	2.40	0.51
45:JN:175:VAL:HG21	45:JN:205:GLU:HG3	1.92	0.51
45:JN:279:GLN:HG3	45:JN:280:GLN:N	2.25	0.51
44:KA:30:ILE:CD1	44:KA:36:MET:HG2	2.41	0.51
44:KC:183:GLU:N	44:KC:184:PRO:HD2	2.25	0.51
44:KC:191:THR:O	44:KC:195:LEU:HB2	2.11	0.51
44:KE:64:ARG:HB3	44:KE:125:LEU:HD11	1.92	0.51
45:KF:183:TYR:O	45:KF:186:THR:HG22	2.10	0.51
44:KG:153:LEU:O	44:KG:157:LEU:HG	2.10	0.51
45:KH:206:ALA:CB	45:KH:300:MET:HA	2.40	0.51
44:KI:404:PHE:CZ	45:KJ:259:PRO:HA	2.46	0.51
45:KJ:138:SER:HA	45:KJ:169:VAL:HG22	1.92	0.51
45:KJ:187:LEU:HD21	45:KJ:408:PHE:HE1	1.75	0.51
45:KJ:257:LEU:HB3	45:KJ:266:PHE:CZ	2.46	0.51
45:KL:102:ALA:HB3	45:KL:401:GLU:OE2	2.11	0.51
45:KN:200:MET:HE3	45:KN:266:PHE:CD2	2.45	0.51
45:KN:206:ALA:HB1	45:KN:300:MET:HA	1.92	0.51
44:LA:9:VAL:CA	44:LA:68:LEU:HB2	2.41	0.51
44:LA:60:LYS:HD3	44:MA:283:HIS:O	2.11	0.51
45:LB:27:GLU:OE2	45:LB:318:ARG:NH2	2.43	0.51
45:LD:11:GLN:O	45:LD:15:GLN:HB2	2.10	0.51
45:LD:256:ASN:ND2	45:LD:350:LYS:HD2	2.24	0.51
45:LD:267:MET:HE3	45:LD:301:CYS:SG	2.50	0.51
45:LD:285:THR:C	45:LD:287:PRO:HD2	2.30	0.51
44:LG:71:GLU:O	44:LG:71:GLU:HG2	2.11	0.51
44:LG:338:LYS:HG3	44:LG:340:THR:HG22	1.93	0.51
45:LH:315:ALA:HB1	45:LH:317:PHE:CE1	2.45	0.51
44:LM:25:CYS:O	44:LM:29:GLY:N	2.43	0.51
44:MA:10:GLY:O	44:MA:13:GLY:N	2.43	0.51
44:MA:20:CYS:HB2	44:MA:24:PHE:CE1	2.46	0.51
44:MA:137:VAL:CG1	44:MA:168:GLY:HA2	2.41	0.51
44:MA:404:PHE:CD1	45:MB:259:PRO:HA	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:23:VAL:HA	45:MB:26:ASP:HB2	1.92	0.51
44:ME:238:LEU:HG	44:ME:255:PHE:CE2	2.45	0.51
44:MG:216:ASN:HB3	44:MG:275:ILE:O	2.11	0.51
44:MG:329:ASN:HB3	45:MJ:175:VAL:HG12	1.92	0.51
45:MJ:98:GLY:O	45:MJ:99:ASN:OD1	2.28	0.51
45:MJ:187:LEU:HD22	45:MJ:408:PHE:HE1	1.73	0.51
44:MK:52:PHE:CZ	44:MK:239:THR:HG21	2.45	0.51
44:MK:316:SER:OG	44:MK:352:LYS:HB3	2.10	0.51
45:ML:72:THR:HG23	45:ML:73:MET:HG3	1.91	0.51
44:MM:224:TYR:O	44:MM:227:LEU:HB2	2.11	0.51
44:MM:406:HIS:CE1	45:MN:261:PRO:HD3	2.46	0.51
45:NB:32:PRO:HB3	45:NB:81:PHE:CD1	2.45	0.51
45:NF:117:LEU:O	45:NF:120:VAL:HG12	2.11	0.51
45:NF:143:THR:HG23	48:NF:501:GDP:O1B	2.10	0.51
45:NF:288:GLU:OE1	45:NF:288:GLU:N	2.43	0.51
46:NG:501:GTP:H8	45:NH:246:LEU:HD12	1.76	0.51
45:NH:232:ALA:HB1	45:NH:268:ILE:HD12	1.92	0.51
44:NI:209:ILE:HG22	44:NI:227:LEU:CD1	2.40	0.51
44:NI:362:VAL:O	44:NI:362:VAL:HG13	2.11	0.51
45:NJ:217:LEU:HD11	45:NJ:220:PRO:HG3	1.92	0.51
45:NL:186:THR:HG21	45:NL:385:PHE:CG	2.45	0.51
45:NL:186:THR:O	45:NL:415:MET:HE1	2.10	0.51
45:NL:238:CYS:SG	45:NL:318:ARG:HD3	2.50	0.51
45:NN:86:ARG:HH21	45:NN:87:PRO:CG	2.23	0.51
45:NN:137:HIS:CE1	45:NN:166:THR:HB	2.32	0.51
44:OC:20:CYS:HB3	44:OC:24:PHE:CE2	2.46	0.51
44:OC:119:LEU:CG	44:OC:156:ARG:HG3	2.40	0.51
45:OD:187:LEU:HD11	45:OD:408:PHE:HE1	1.76	0.51
45:OD:304:ASP:HB3	45:OD:307:HIS:ND1	2.26	0.51
44:OE:5:ILE:HB	44:OE:135:PHE:CE1	2.45	0.51
44:OE:107:HIS:NE2	44:OE:151:SER:OG	2.44	0.51
44:OE:272:TYR:CD2	44:OE:275:ILE:HD11	2.43	0.51
44:OE:326:LYS:CD	45:OH:220:PRO:HD2	2.41	0.51
45:OJ:66:MET:HA	45:OJ:73:MET:CE	2.41	0.51
44:OK:101:ASN:HA	44:OK:144:GLY:H	1.75	0.51
45:OL:170:VAL:CG2	45:OL:171:PRO:HD2	2.41	0.51
44:OM:207:GLU:O	44:OM:210:TYR:N	2.43	0.51
45:ON:206:ALA:O	45:ON:209:ASP:N	2.44	0.51
45:ON:284:LEU:CG	45:ON:363:MET:HB2	2.41	0.51
45:PB:113:ILE:HG13	45:PB:116:VAL:CG1	2.41	0.51
44:PC:11:GLN:N	46:PC:501:GTP:O2B	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:174:SER:OG	44:PC:206:ASN:HB2	2.10	0.51
45:PD:334:GLN:HB2	45:PD:349:ILE:HD12	1.91	0.51
44:PG:88:HIS:HE1	44:PG:90:GLU:HG2	1.73	0.51
44:PI:137:VAL:CG1	44:PI:168:GLY:HA2	2.41	0.51
45:PJ:113:ILE:O	45:PJ:116:VAL:HG12	2.10	0.51
44:PK:88:HIS:CE1	44:PK:89:PRO:HD2	2.46	0.51
44:PK:103:PHE:HB2	44:PK:186:ASN:CB	2.40	0.51
44:PK:167:LEU:HD13	44:PK:252:ILE:HD11	1.92	0.51
44:PK:243:ARG:O	44:PK:244:PHE:HD1	1.94	0.51
45:PL:6:HIS:CB	45:PL:134:GLN:HG3	2.40	0.51
45:PL:187:LEU:HD21	45:PL:408:PHE:CD1	2.46	0.51
45:PN:293:MET:CE	45:PN:365:VAL:HG12	2.39	0.51
45:PN:337:ASN:HB3	45:PN:340:TYR:HB2	1.92	0.51
44:QC:1:MET:HE1	44:QC:130:THR:O	2.11	0.51
45:QD:54:ALA:HB2	45:RD:283:ALA:HB2	1.91	0.51
45:QD:343:GLU:OE2	45:QD:430:ALA:N	2.44	0.51
44:QE:182:VAL:O	44:QE:182:VAL:HG22	2.10	0.51
45:QF:262:ARG:HH12	45:QF:421:GLU:CD	2.13	0.51
45:QF:395:LEU:O	45:QF:398:TYR:N	2.43	0.51
44:QG:311:LYS:O	44:QG:312:TYR:HD1	1.94	0.51
44:QG:349:THR:O	45:QH:179:VAL:HG23	2.11	0.51
44:QI:223:THR:HG22	44:QI:226:ASN:OD1	2.10	0.51
45:QJ:72:THR:HG23	45:QJ:73:MET:CG	2.29	0.51
44:QK:25:CYS:SG	44:QK:26:LEU:N	2.84	0.51
44:QK:325:PRO:HG2	45:QL:222:TYR:CD1	2.46	0.51
45:QL:70:PRO:HG3	45:QL:92:PHE:CD2	2.46	0.51
45:QL:274:THR:HB	45:QL:282:ARG:NH1	2.25	0.51
44:QM:315:CYS:HB3	44:QM:351:PHE:HA	1.93	0.51
44:RA:88:HIS:CE1	44:RA:90:GLU:HG2	2.46	0.51
44:RA:174:SER:HB2	44:RA:177:VAL:CG1	2.36	0.51
44:RC:103:PHE:HB2	44:RC:186:ASN:CB	2.41	0.51
45:RD:135:ILE:HG21	45:RD:152:ILE:HD11	1.93	0.51
44:RE:89:PRO:HD3	44:SE:280:LYS:HZ1	1.75	0.51
45:RF:360:GLY:O	45:RF:361:LEU:HD23	2.11	0.51
44:RG:14:ILE:O	44:RG:18:ASN:HB2	2.10	0.51
44:RG:219:ILE:O	44:RG:222:PRO:HD3	2.11	0.51
45:RH:40:SER:O	45:RH:43:GLN:HB2	2.11	0.51
45:RH:112:LEU:O	45:RH:115:SER:OG	2.19	0.51
45:RJ:292:GLN:O	45:RJ:298:ASN:ND2	2.44	0.51
45:RJ:420:SER:O	45:RJ:423:GLN:HG3	2.11	0.51
44:RK:262:TYR:HB3	44:RK:263:PRO:CD	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:206:ASN:HA	44:RM:209:ILE:HD12	1.93	0.51
44:RM:261:PRO:HA	45:RN:394:PHE:CG	2.45	0.51
45:RN:60:VAL:CG2	45:RN:86:ARG:HG2	2.41	0.51
44:SA:183:GLU:HG2	44:SA:184:PRO:CD	2.40	0.51
44:SA:288:VAL:O	44:SA:291:ILE:HG12	2.11	0.51
45:SB:146:GLY:CA	45:SB:149:THR:HG22	2.41	0.51
44:SC:21:TRP:CZ2	44:SC:65:ALA:HB2	2.45	0.51
44:SC:22:GLU:HG3	44:SC:83:TYR:OH	2.11	0.51
44:SC:323:VAL:CG1	44:SC:355:ILE:HG23	2.41	0.51
45:SD:73:MET:HB2	45:SD:90:PHE:HE1	1.75	0.51
44:SE:268:MET:SD	44:SE:378:ILE:HG22	2.51	0.51
45:SF:4:ILE:HG23	45:SF:131:GLN:HB3	1.93	0.51
45:SF:217:LEU:HD11	45:SF:220:PRO:CG	2.40	0.51
45:SF:255:VAL:HA	44:SG:407:TRP:HZ3	1.71	0.51
44:SG:286:LEU:C	44:SG:373:ARG:HH21	2.14	0.51
45:SH:2:ARG:HD2	44:SI:96:LYS:O	2.10	0.51
45:SH:342:VAL:CG1	45:SH:345:ILE:HG22	2.41	0.51
44:SI:102:ASN:OD1	44:SI:105:ARG:N	2.29	0.51
45:SJ:244:GLY:HA2	45:SJ:355:ASP:OD2	2.10	0.51
44:SK:263:PRO:HD3	45:SL:396:HIS:CD2	2.45	0.51
45:SL:138:SER:C	45:SL:139:LEU:HD12	2.31	0.51
44:SM:278:ALA:HB1	44:SM:282:TYR:OH	2.11	0.51
45:SN:1:MET:SD	45:SN:2:ARG:HD3	2.51	0.51
45:SN:143:THR:HG23	48:SN:501:GDP:O1B	2.10	0.51
44:TA:89:PRO:HD3	44:UA:280:LYS:HD2	1.93	0.51
45:TB:312:THR:O	45:TB:370:ASN:N	2.29	0.51
45:TD:193:VAL:HG21	45:TD:418:LEU:HD22	1.93	0.51
45:TD:317:PHE:CE2	45:TD:326:VAL:HG23	2.46	0.51
44:TE:82:THR:HG23	44:TE:83:TYR:CD1	2.46	0.51
44:TE:209:ILE:HG12	44:TE:302:MET:HE2	1.93	0.51
44:TE:385:ALA:O	44:TE:388:PHE:HB2	2.11	0.51
44:TE:437:ILE:HG13	44:TE:437:ILE:O	2.10	0.51
45:TF:149:THR:HA	45:TF:152:ILE:HB	1.91	0.51
45:TF:168:SER:O	45:TF:201:VAL:HA	2.11	0.51
45:TF:378:PHE:CA	45:TF:381:VAL:HG12	2.40	0.51
45:TJ:3:GLU:OE2	45:TJ:128:ASP:N	2.43	0.51
45:TJ:396:HIS:HA	45:TJ:399:THR:OG1	2.11	0.51
44:TK:141:VAL:HB	44:TK:190:SER:OG	2.10	0.51
44:TK:395:PHE:O	44:TK:399:TYR:N	2.34	0.51
45:TL:135:ILE:HG13	45:TL:152:ILE:CD1	2.40	0.51
45:TL:183:TYR:OH	45:TL:393:ALA:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:188:SER:O	45:TL:192:LEU:HB2	2.11	0.51
44:TM:372:MET:O	44:TM:373:ARG:HG3	2.11	0.51
45:TN:68:LEU:CD2	45:TN:143:THR:HB	2.40	0.51
45:TN:207:LEU:HG	45:TN:300:MET:HE3	1.91	0.51
45:TN:274:THR:CG2	45:TN:279:GLN:HG3	2.41	0.51
44:UA:99:ALA:HB2	44:UA:145:THR:HB	1.93	0.51
44:UA:157:LEU:O	44:UA:161:TYR:HB2	2.11	0.51
45:UB:268:ILE:HB	45:UB:367:PHE:O	2.10	0.51
44:UC:118:CYS:O	44:UC:122:ILE:HG12	2.10	0.51
45:UD:200:MET:SD	45:UD:268:ILE:HG23	2.50	0.51
45:UD:395:LEU:HD21	45:UD:405:GLU:HB3	1.92	0.51
44:UE:26:LEU:HD21	44:UE:363:VAL:HA	1.93	0.51
44:UE:243:ARG:HG3	44:UE:244:PHE:CE2	2.46	0.51
45:UF:163:ILE:CD1	45:UF:250:LEU:HD11	2.40	0.51
45:UF:304:ASP:OD2	45:UF:307:HIS:NE2	2.44	0.51
45:UF:324:LYS:HG3	44:UG:222:PRO:CG	2.28	0.51
44:UG:317:MET:SD	44:UG:375:VAL:HG23	2.49	0.51
45:UH:215:LEU:HD23	45:UH:274:THR:N	2.25	0.51
45:UH:238:CYS:HA	45:UH:241:ARG:NH2	2.26	0.51
45:UH:376:GLU:O	45:UH:380:ARG:HG2	2.10	0.51
45:UJ:226:ASN:HD21	48:UJ:501:GDP:HN1	1.58	0.51
44:UK:260:VAL:O	44:UK:262:TYR:N	2.44	0.51
44:UK:270:SER:CB	44:UK:378:ILE:HD13	2.40	0.51
44:UK:284:GLU:N	44:UK:284:GLU:OE2	2.44	0.51
45:UL:135:ILE:HG13	45:UL:152:ILE:HD11	1.92	0.51
44:VC:105:ARG:HG2	44:VC:411:GLU:CD	2.31	0.51
44:VE:135:PHE:CD2	44:VE:157:LEU:HD13	2.46	0.51
44:VE:209:ILE:HD12	44:VE:227:LEU:HD13	1.91	0.51
44:VG:22:GLU:HA	44:VG:25:CYS:HB2	1.91	0.51
44:VG:41:THR:HG23	44:VG:44:GLY:O	2.10	0.51
44:VG:104:ALA:HA	44:VG:413:MET:HE1	1.92	0.51
45:VH:185:ALA:O	45:VH:188:SER:OG	2.12	0.51
44:VI:104:ALA:HA	44:VI:413:MET:CE	2.41	0.51
44:VI:407:TRP:HH2	45:VJ:254:ALA:HB1	1.76	0.51
45:VJ:270:PHE:CD2	45:VJ:273:LEU:HD21	2.45	0.51
45:VJ:311:LEU:CD2	45:VJ:312:THR:HG22	2.41	0.51
44:VM:88:HIS:H	44:VM:91:GLN:HE21	1.58	0.51
45:VN:10:GLY:HA2	45:VN:67:ASP:OD2	2.10	0.51
45:WB:280:GLN:OE1	45:WB:280:GLN:N	2.32	0.51
45:WB:312:THR:HA	45:WB:348:ASN:CB	2.39	0.51
44:WC:24:PHE:CE2	44:WC:52:PHE:HE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:181:VAL:N	45:WD:256:ASN:HD21	2.09	0.51
45:WD:184:ASN:OD1	45:WD:185:ALA:N	2.44	0.51
45:WF:99:ASN:HB3	45:WF:180:VAL:HG11	1.92	0.51
44:WG:172:TYR:HD2	44:WG:203:MET:SD	2.34	0.51
44:WG:206:ASN:O	44:WG:209:ILE:HB	2.10	0.51
45:WJ:192:LEU:HD21	45:WJ:199:CYS:SG	2.51	0.51
45:WJ:324:LYS:HA	45:WJ:327:ASP:OD2	2.11	0.51
45:WL:210:ILE:O	45:WL:214:THR:OG1	2.17	0.51
44:WM:77:GLU:HA	44:WM:80:THR:OG1	2.10	0.51
44:WM:91:GLN:HG3	44:WM:92:LEU:HD12	1.93	0.51
44:WM:352:LYS:HG3	44:WM:352:LYS:O	2.09	0.51
2:0A:50:PRO:HB2	35:7R:70:ARG:CZ	2.37	0.51
3:0B:287:ASP:OD1	45:KL:279:GLN:NE2	2.43	0.51
5:0D:57:THR:CG2	44:EC:219:ILE:HD11	2.40	0.51
7:0F:48:HIS:HA	44:EE:221:ARG:HG3	1.91	0.51
4:1C:73:PRO:CG	45:DL:55:THR:HB	2.39	0.51
4:1C:89:PHE:HA	44:EM:229:ARG:NH2	2.25	0.51
9:1H:161:LEU:HD11	45:HJ:362:LYS:HD2	1.92	0.51
20:1J:142:VAL:HB	44:IE:285:GLN:HG3	1.93	0.51
21:1K:42:GLU:HG3	45:KF:213:ARG:HG3	1.93	0.51
22:1L:543:THR:HB	44:BE:279:GLU:OE2	2.10	0.51
10:1N:245:LYS:HE3	44:KG:245:ASP:CB	2.39	0.51
25:1P:277:LYS:CG	44:TE:282:TYR:HD2	2.24	0.51
2:2A:36:ARG:NH1	45:MJ:356:ILE:HG12	2.25	0.51
2:2A:99:GLY:HA3	45:MJ:81:PHE:CE1	2.45	0.51
21:2K:379:ARG:HH11	44:GG:282:TYR:HB2	1.74	0.51
26:2R:252:LEU:HD22	44:CG:370:LYS:HE3	1.93	0.51
35:4R:323:LEU:HD21	45:CF:276:ARG:O	2.11	0.51
35:4R:383:GLN:OE1	45:DF:83:GLN:HG3	2.10	0.51
37:5B:109:ASN:HD21	44:KE:390:ARG:HG2	1.75	0.51
37:5D:26:LYS:HD3	45:KN:395:LEU:HD12	1.91	0.51
37:5D:32:ALA:HB1	44:KK:434:GLU:OE2	2.10	0.51
37:5D:44:SER:CA	45:KN:393:ALA:HB3	2.41	0.51
38:5E:173:LYS:CB	45:KD:194:GLU:HA	2.39	0.51
36:5S:135:ILE:H	36:5S:135:ILE:HD12	1.76	0.51
41:6G:127:ILE:HG13	41:6G:128:LYS:HG2	1.93	0.51
11:6Q:100:ARG:HB2	11:6Q:100:ARG:CZ	2.41	0.51
42:8L:149:UNK:O	42:8L:153:UNK:N	2.44	0.51
44:AC:80:THR:HA	44:AC:84:ARG:HE	1.76	0.51
44:AE:260:VAL:HG23	44:AE:260:VAL:O	2.11	0.51
45:AF:173:PRO:CD	45:AF:380:ARG:HH11	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:299:MET:HG3	45:AF:305:PRO:HG2	1.90	0.51
44:AG:88:HIS:HB3	44:AG:91:GLN:HG2	1.92	0.51
45:AH:252:LYS:O	45:AH:255:VAL:HG12	2.11	0.51
45:AH:286:VAL:HG21	45:AH:325:GLU:HG3	1.92	0.51
44:AI:27:GLU:CD	44:AI:243:ARG:HH12	2.14	0.51
45:AJ:289:LEU:HD12	45:AJ:363:MET:HE3	1.92	0.51
44:AK:183:GLU:HG2	44:AK:184:PRO:CD	2.40	0.51
45:AL:202:ILE:HG23	45:AL:207:LEU:HD21	1.93	0.51
44:BA:230:LEU:HD11	44:BA:368:LEU:HD21	1.93	0.51
44:BA:317:MET:HA	44:BA:377:MET:HA	1.93	0.51
45:BD:345:ILE:HG23	45:BD:348:ASN:HB3	1.93	0.51
44:BE:296:PHE:HE2	44:BE:335:ILE:HG21	1.75	0.51
45:BF:60:VAL:HG13	45:BF:60:VAL:O	2.10	0.51
45:BF:187:LEU:HD11	45:BF:408:PHE:CE1	2.46	0.51
44:BG:188:ILE:O	44:BG:191:THR:HG22	2.11	0.51
44:BI:13:GLY:O	44:BI:16:VAL:HG12	2.11	0.51
44:BI:226:ASN:ND2	44:BI:367:ASP:OD2	2.44	0.51
45:BJ:1:MET:HE3	45:BJ:129:CYS:CB	2.40	0.51
45:BJ:156:ARG:HG2	45:BJ:195:ASN:HB3	1.93	0.51
44:BK:62:VAL:HG21	44:CK:283:HIS:O	2.10	0.51
45:BL:1:MET:C	45:BL:2:ARG:HG2	2.32	0.51
44:BM:97:GLU:HG3	44:BM:105:ARG:HH22	1.76	0.51
45:BN:143:THR:C	45:BN:147:MET:HG2	2.30	0.51
45:BN:240:LEU:O	45:BN:240:LEU:HD23	2.11	0.51
45:BN:314:SER:CA	45:BN:350:LYS:HB3	2.38	0.51
45:CB:150:LEU:HD21	45:CB:154:LYS:CE	2.39	0.51
45:CB:382:ALA:O	45:CB:386:THR:HG23	2.10	0.51
44:CC:324:VAL:CG1	44:CC:325:PRO:HD2	2.40	0.51
45:CD:35:THR:O	45:CD:37:HIS:HD2	1.94	0.51
44:CE:112:LYS:O	44:CE:115:VAL:HG12	2.11	0.51
44:CE:216:ASN:CB	44:CE:275:ILE:HG22	2.40	0.51
44:CG:186:ASN:OD1	44:CG:187:SER:N	2.44	0.51
45:CL:331:LEU:HG	45:CL:335:ASN:HD21	1.76	0.51
45:CN:169:VAL:HG22	45:CN:202:ILE:HB	1.93	0.51
44:DA:72:PRO:HG3	44:DA:95:GLY:O	2.11	0.51
44:DA:296:PHE:HD2	44:DA:335:ILE:HD12	1.75	0.51
44:DA:439:THR:HB	45:DB:391:ARG:HD3	1.92	0.51
44:DC:105:ARG:HH21	44:DC:110:ILE:HG21	1.76	0.51
45:DD:317:PHE:HB2	45:DD:321:MET:CE	2.40	0.51
44:DG:91:GLN:HG3	44:DG:92:LEU:CD2	2.40	0.51
44:DI:140:SER:OG	46:DI:501:GTP:O2B	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:175:PRO:HG2	44:DI:304:LYS:CG	2.41	0.51
44:DI:244:PHE:CD2	44:DI:358:GLN:HB3	2.45	0.51
45:DJ:3:GLU:N	45:DJ:3:GLU:OE1	2.44	0.51
45:DJ:314:SER:O	45:DJ:368:VAL:HG12	2.11	0.51
45:DL:106:TYR:HE2	45:DL:403:MET:HE1	1.76	0.51
45:DL:258:ILE:HB	44:DM:407:TRP:CH2	2.45	0.51
44:DM:276:ILE:HG23	44:DM:281:ALA:CB	2.40	0.51
44:DM:320:ARG:HA	44:DM:356:ASN:HB3	1.92	0.51
44:DM:335:ILE:O	44:DM:338:LYS:HB2	2.11	0.51
45:DN:318:ARG:HB2	45:DN:364:ALA:HB3	1.91	0.51
45:DN:342:VAL:HG22	45:DN:343:GLU:H	1.76	0.51
44:EA:217:LEU:HD13	44:EA:367:ASP:CB	2.41	0.51
44:EA:328:VAL:HG21	44:EA:355:ILE:HD11	1.93	0.51
45:ED:72:THR:HG23	45:ED:73:MET:H	1.75	0.51
45:ED:294:PHE:CE1	45:ED:333:VAL:HG11	2.45	0.51
45:ED:302:ALA:H	45:ED:377:MET:CE	2.24	0.51
45:EF:153:SER:HA	45:EF:195:ASN:HD22	1.75	0.51
44:EG:115:VAL:HG11	44:EG:152:LEU:CD2	2.41	0.51
45:EH:40:SER:OG	45:EH:43:GLN:OE1	2.21	0.51
45:EH:216:LYS:NZ	45:EH:275:SER:HB3	2.26	0.51
45:EH:257:LEU:CD2	45:EH:368:VAL:HG12	2.40	0.51
44:EI:183:GLU:HG2	44:EI:184:PRO:HD3	1.91	0.51
44:EK:30:ILE:O	44:EK:32:PRO:HD3	2.10	0.51
45:EL:343:GLU:OE2	45:EL:430:ALA:N	2.34	0.51
44:EM:133:GLN:OE1	44:EM:133:GLN:HA	2.10	0.51
44:EM:240:ALA:HB1	44:EM:356:ASN:ND2	2.26	0.51
45:EN:326:VAL:O	45:EN:330:MET:N	2.39	0.51
44:FC:71:GLU:OE1	44:FC:73:THR:HB	2.10	0.51
44:FC:101:ASN:ND2	45:FD:252:LYS:HE2	2.26	0.51
45:FD:20:PHE:HE1	45:FD:233:MET:CB	2.24	0.51
45:FD:246:LEU:CD1	45:FD:353:ILE:HD13	2.40	0.51
45:FF:113:ILE:HD13	45:FF:150:LEU:HG	1.91	0.51
45:FF:161:ASP:O	45:FF:162:ARG:NH2	2.44	0.51
45:FF:318:ARG:NH1	45:FF:358:PRO:HG3	2.25	0.51
45:FH:30:ILE:HD12	45:FH:59:TYR:CD1	2.45	0.51
44:FI:288:VAL:HA	44:FI:291:ILE:HG12	1.91	0.51
44:FI:329:ASN:HD21	45:FL:175:VAL:CG1	2.23	0.51
44:FK:169:PHE:HA	44:FK:202:VAL:HB	1.92	0.51
45:FN:252:LYS:HG2	45:FN:350:LYS:HZ1	1.75	0.51
45:FN:304:ASP:OD1	45:FN:306:ARG:HG2	2.11	0.51
44:GC:250:VAL:HG13	44:GC:250:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:209:ILE:CG2	44:GE:227:LEU:HD22	2.41	0.51
45:GF:7:ILE:HB	45:GF:135:ILE:HD12	1.92	0.51
45:GF:200:MET:HA	45:GF:266:PHE:O	2.11	0.51
44:GG:220:GLU:C	44:GG:221:ARG:HD2	2.31	0.51
44:GG:254:GLU:CG	45:GJ:98:GLY:HA2	2.19	0.51
45:GH:320:ARG:O	45:GH:321:MET:CB	2.58	0.51
44:GI:31:GLN:CD	44:GI:37:PRO:HG3	2.31	0.51
44:GI:99:ALA:HB3	44:GI:145:THR:CG2	2.41	0.51
44:GK:203:MET:HA	44:GK:203:MET:CE	2.40	0.51
45:GL:2:ARG:NH2	45:GL:240:LEU:O	2.44	0.51
45:GL:146:GLY:O	45:GL:149:THR:HG22	2.11	0.51
44:GM:25:CYS:O	44:GM:30:ILE:N	2.39	0.51
44:GM:320:ARG:N	44:GM:374:ALA:O	2.31	0.51
44:HA:8:HIS:HB2	44:HA:67:PHE:CD1	2.46	0.51
44:HA:257:THR:HG22	45:HD:397:TRP:CZ3	2.45	0.51
44:HA:267:PHE:CG	44:HA:388:PHE:HZ	2.28	0.51
44:HC:13:GLY:HA2	44:HC:16:VAL:CG1	2.40	0.51
45:HD:133:PHE:HB2	45:HD:164:MET:SD	2.51	0.51
45:HD:139:LEU:HD12	45:HD:170:VAL:CG2	2.41	0.51
44:HE:13:GLY:O	44:HE:16:VAL:HG12	2.10	0.51
44:HE:191:THR:CA	44:HE:194:LEU:HG	2.40	0.51
44:HE:242:LEU:HD11	44:HE:252:ILE:HG13	1.92	0.51
44:HE:259:LEU:HD11	44:HE:316:SER:N	2.25	0.51
44:HE:265:ILE:HD11	44:HE:435:VAL:HG21	1.93	0.51
44:HE:402:ARG:O	44:HE:405:VAL:HG12	2.11	0.51
45:HF:19:LYS:HA	45:HF:22:GLU:HB2	1.93	0.51
45:HF:138:SER:HA	45:HF:169:VAL:HG12	1.93	0.51
45:HF:139:LEU:CD2	45:HF:168:SER:HB3	2.40	0.51
45:HF:372:THR:O	45:HF:375:GLN:HG2	2.11	0.51
44:HI:68:LEU:HD22	44:HI:118:CYS:SG	2.51	0.51
44:HI:210:TYR:HE1	44:HI:227:LEU:HD11	1.75	0.51
44:HI:226:ASN:HA	44:HI:229:ARG:CZ	2.40	0.51
44:HI:272:TYR:HD2	44:HI:275:ILE:HD11	1.75	0.51
45:HJ:146:GLY:O	45:HJ:149:THR:HG22	2.11	0.51
45:HJ:270:PHE:CD2	45:HJ:273:LEU:HD21	2.46	0.51
44:HK:362:VAL:O	44:HK:362:VAL:HG13	2.10	0.51
45:HL:209:ASP:O	45:HL:213:ARG:HG2	2.11	0.51
44:HM:60:LYS:NZ	44:HM:85:GLN:O	2.37	0.51
44:HM:287:SER:H	44:HM:290:GLU:CD	2.11	0.51
44:HM:301:MET:HE2	44:HM:305:CYS:H	1.75	0.51
45:HN:341:PHE:HD1	45:HN:348:ASN:HD21	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:355:ASP:O	45:HN:357:PRO:HD3	2.10	0.51
44:IA:278:ALA:HB2	44:IA:369:ALA:CB	2.41	0.51
44:IA:310:GLY:C	44:IA:311:LYS:HD3	2.31	0.51
45:IB:417:ASP:O	45:IB:421:GLU:HG3	2.10	0.51
44:IC:175:PRO:HB3	44:IC:390:ARG:NE	2.26	0.51
45:ID:192:LEU:CD1	45:ID:196:ALA:HB2	2.40	0.51
45:ID:274:THR:CB	45:ID:282:ARG:HH22	2.15	0.51
44:IG:77:GLU:O	44:IG:80:THR:HG22	2.11	0.51
44:IG:317:MET:O	44:IG:318:MET:HE2	2.11	0.51
44:IK:100:ALA:HA	45:IL:252:LYS:HG2	1.93	0.51
44:IK:102:ASN:OD1	44:IK:104:ALA:N	2.43	0.51
44:IK:223:THR:HA	45:IL:323:THR:OG1	2.10	0.51
44:IK:261:PRO:HB3	45:IN:394:PHE:CZ	2.46	0.51
45:IL:5:VAL:HG22	45:IL:133:PHE:CD1	2.45	0.51
45:IL:404:ASP:HB2	45:IL:406:MET:HE1	1.92	0.51
44:IM:88:HIS:ND1	44:IM:90:GLU:HG2	2.26	0.51
44:JA:105:ARG:CZ	45:JB:251:ARG:HH12	2.24	0.51
45:JD:54:ALA:HB1	45:KD:283:ALA:HA	1.93	0.51
44:JE:265:ILE:HG23	44:JE:432:TYR:CE1	2.45	0.51
45:JF:326:VAL:O	45:JF:330:MET:HG2	2.11	0.51
44:JG:93:ILE:H	44:JG:93:ILE:HD12	1.74	0.51
44:JG:254:GLU:HG2	45:JJ:98:GLY:HA2	1.91	0.51
45:JH:352:SER:O	45:JH:353:ILE:HD13	2.11	0.51
45:JH:409:THR:O	45:JH:412:GLU:HG2	2.11	0.51
44:JI:192:HIS:ND1	44:JI:424:ASP:OD2	2.42	0.51
45:JL:320:ARG:HG3	45:JL:320:ARG:NH1	2.23	0.51
44:JM:242:LEU:HD11	44:JM:252:ILE:HD11	1.93	0.51
45:JN:47:ILE:CG2	45:JN:51:TYR:HB2	2.40	0.51
45:JN:237:THR:CG2	45:JN:241:ARG:HH21	2.24	0.51
45:KB:65:LEU:HD12	45:KB:90:PHE:CZ	2.46	0.51
45:KB:325:GLU:HG2	45:KB:326:VAL:N	2.25	0.51
44:KC:88:HIS:HB3	44:KC:91:GLN:CG	2.41	0.51
44:KC:141:VAL:CG1	44:KC:187:SER:HA	2.40	0.51
44:KC:181:VAL:HG22	45:KD:347:ASN:O	2.10	0.51
44:KG:308:ARG:NH2	44:NG:282:TYR:HB3	2.26	0.51
45:KJ:19:LYS:HZ1	45:KJ:227:HIS:HB2	1.76	0.51
44:KK:14:ILE:HD11	44:KK:69:ASP:CB	2.34	0.51
44:KK:338:LYS:HD2	44:KK:341:ILE:HD13	1.92	0.51
44:LA:291:ILE:HG13	44:LA:292:THR:N	2.25	0.51
44:LC:70:LEU:HD12	44:LC:145:THR:OG1	2.11	0.51
44:LC:346:TRP:O	45:LF:388:MET:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:263:LEU:HD23	45:LD:422:TYR:CE1	2.45	0.51
44:LG:5:ILE:HB	44:LG:135:PHE:HD1	1.76	0.51
44:LG:269:LEU:HG	44:LG:301:MET:HE3	1.92	0.51
45:LH:344:TRP:CE3	45:LH:345:ILE:HG23	2.46	0.51
44:LI:146:GLY:O	44:LI:150:GLY:N	2.39	0.51
45:LJ:257:LEU:O	45:LJ:259:PRO:HD3	2.11	0.51
45:LL:33:THR:HG23	45:LL:35:THR:HG22	1.93	0.51
45:LL:97:ALA:HA	45:LL:103:LYS:CE	2.40	0.51
45:LL:167:PHE:CD2	45:LL:233:MET:HG3	2.46	0.51
44:MC:168:GLY:O	44:MC:201:ALA:HA	2.11	0.51
44:MC:210:TYR:CD2	45:MD:324:LYS:NZ	2.79	0.51
44:ME:112:LYS:HA	44:ME:115:VAL:HG12	1.92	0.51
44:MG:101:ASN:OD1	45:MH:252:LYS:HG3	2.10	0.51
45:MH:175:VAL:O	45:MH:175:VAL:HG23	2.11	0.51
45:MH:252:LYS:HG2	45:MH:350:LYS:HE2	1.93	0.51
44:MK:54:SER:HB3	44:MK:64:ARG:NH2	2.26	0.51
44:MK:189:LEU:HD21	44:MK:413:MET:HE3	1.91	0.51
45:ML:396:HIS:HA	45:ML:399:THR:CG2	2.40	0.51
44:MM:36:MET:HG3	44:MM:37:PRO:CD	2.39	0.51
44:MM:73:THR:CG2	45:MN:2:ARG:HH22	2.24	0.51
44:MM:188:ILE:O	44:MM:191:THR:N	2.40	0.51
45:MN:44:LEU:HD23	45:MN:47:ILE:HD12	1.93	0.51
45:MN:145:SER:O	45:MN:149:THR:HG22	2.11	0.51
44:NA:185:TYR:OH	44:NA:398:MET:HB3	2.10	0.51
45:NB:116:VAL:HG13	45:NB:117:LEU:HD22	1.93	0.51
44:NC:136:LEU:HD23	44:NC:167:LEU:HB2	1.91	0.51
45:ND:180:VAL:HG12	45:ND:180:VAL:O	2.10	0.51
45:ND:286:VAL:HB	45:ND:325:GLU:HG3	1.91	0.51
44:NE:323:VAL:HG12	44:NE:373:ARG:HD2	1.92	0.51
44:NG:99:ALA:O	44:NG:102:ASN:HB3	2.11	0.51
44:NG:290:GLU:O	44:NG:293:ASN:HB2	2.11	0.51
45:NH:36:TYR:CZ	45:NH:38:GLY:HA3	2.46	0.51
45:NH:163:ILE:CD1	45:NH:251:ARG:HD2	2.41	0.51
44:NI:291:ILE:HG13	44:NI:292:THR:N	2.25	0.51
45:NJ:49:VAL:HG21	45:NJ:241:ARG:CG	2.39	0.51
44:NK:101:ASN:HA	44:NK:144:GLY:HA3	1.92	0.51
44:NK:263:PRO:HD3	45:NN:396:HIS:CD2	2.46	0.51
45:NL:199:CYS:O	45:NL:266:PHE:N	2.44	0.51
45:NN:70:PRO:HA	45:NN:73:MET:HE1	1.91	0.51
45:NN:170:VAL:CG1	45:NN:377:MET:HE3	2.40	0.51
45:NN:262:ARG:HD3	45:NN:421:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:345:ILE:O	45:NN:345:ILE:HG23	2.11	0.51
45:NN:404:ASP:OD1	45:NN:406:MET:HB2	2.11	0.51
45:OB:28:HIS:CE1	45:OB:241:ARG:HD2	2.45	0.51
45:OB:175:VAL:HG23	45:OB:175:VAL:O	2.11	0.51
45:OB:186:THR:HG23	45:OB:415:MET:HE3	1.93	0.51
45:OD:9:GLY:O	45:OD:13:GLY:HA3	2.10	0.51
45:OD:316:LEU:O	45:OD:365:VAL:HA	2.10	0.51
44:OG:387:VAL:HG23	44:OG:390:ARG:CZ	2.40	0.51
45:OH:46:ARG:HG3	45:OH:241:ARG:O	2.11	0.51
45:OH:101:TRP:HB3	45:OH:398:TYR:HE2	1.75	0.51
45:OH:207:LEU:HB3	45:OH:225:LEU:HD23	1.92	0.51
45:OH:348:ASN:C	45:OH:349:ILE:HD13	2.31	0.51
44:OI:62:VAL:O	44:OI:62:VAL:HG23	2.11	0.51
44:OI:232:ALA:O	44:OI:235:ILE:N	2.43	0.51
45:OJ:102:ALA:H	45:OJ:398:TYR:HE1	1.59	0.51
45:OJ:113:ILE:HG12	45:OJ:117:LEU:CD2	2.34	0.51
44:OK:52:PHE:HZ	44:OK:239:THR:HG21	1.73	0.51
44:OK:387:VAL:O	44:OK:391:LEU:HD13	2.10	0.51
44:OM:274:PRO:HB2	44:OM:276:ILE:CG1	2.39	0.51
44:PA:64:ARG:NH2	44:PA:132:LEU:HD12	2.26	0.51
45:PB:46:ARG:HD2	45:PB:241:ARG:HA	1.93	0.51
44:PC:183:GLU:HG2	44:PC:184:PRO:CD	2.39	0.51
44:PC:409:VAL:HG21	44:PC:415:GLU:OE1	2.10	0.51
45:PD:309:ARG:HD2	45:PD:341:PHE:C	2.31	0.51
44:PE:115:VAL:HG21	44:PE:156:ARG:HD2	1.93	0.51
44:PG:324:VAL:CG1	44:PG:325:PRO:HD2	2.41	0.51
44:PI:182:VAL:O	44:PI:182:VAL:HG22	2.10	0.51
44:PI:221:ARG:HH2	45:PJ:286:VAL:HG23	1.76	0.51
45:PL:136:THR:HG22	45:PL:167:PHE:CB	2.31	0.51
44:QA:145:THR:O	44:QA:149:LEU:HB2	2.11	0.51
44:QA:158:SER:O	44:QA:162:GLY:HA2	2.11	0.51
44:QA:175:PRO:HG3	44:QA:390:ARG:CZ	2.40	0.51
45:QB:70:PRO:O	45:QB:74:ASP:N	2.43	0.51
45:QB:252:LYS:HG2	45:QB:256:ASN:ND2	2.26	0.51
45:QB:302:ALA:HB3	45:QB:377:MET:CE	2.40	0.51
44:QC:19:ALA:HA	44:QC:22:GLU:OE1	2.10	0.51
44:QC:235:ILE:O	44:QC:238:LEU:N	2.40	0.51
45:QD:42:LEU:HA	45:QD:45:GLU:OE2	2.11	0.51
45:QD:114:ASP:OD1	45:QD:115:SER:N	2.44	0.51
45:QD:166:THR:HG21	45:QD:192:LEU:HD11	1.92	0.51
44:QE:183:GLU:N	44:QE:184:PRO:HD2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:387:VAL:HA	44:QE:390:ARG:NH1	2.26	0.51
45:QF:245:GLN:HG2	45:QF:353:ILE:HG21	1.92	0.51
44:QI:90:GLU:CD	44:RI:280:LYS:HE3	2.30	0.51
45:QJ:68:LEU:CD2	45:QJ:97:ALA:HB2	2.41	0.51
44:QK:213:CYS:O	44:QK:217:LEU:HB2	2.11	0.51
45:QL:311:LEU:HB2	45:QL:370:ASN:HB3	1.92	0.51
44:QM:107:HIS:CD2	44:QM:152:LEU:HB2	2.46	0.51
44:QM:145:THR:H	46:QM:501:GTP:PG	2.33	0.51
44:QM:284:GLU:HG3	44:QM:286:LEU:HD22	1.93	0.51
44:RA:141:VAL:HG11	44:RA:172:TYR:CD1	2.42	0.51
45:RB:1:MET:CE	44:RC:72:PRO:HD2	2.40	0.51
44:RC:168:GLY:O	44:RC:201:ALA:HA	2.11	0.51
45:RD:293:MET:HE3	45:RD:367:PHE:CB	2.39	0.51
44:RE:169:PHE:CD1	44:RE:202:VAL:HB	2.45	0.51
44:RE:188:ILE:HD12	44:RE:425:LEU:CD1	2.40	0.51
44:RE:311:LYS:HE2	44:RE:344:VAL:CA	2.40	0.51
45:RH:256:ASN:HD22	45:RH:350:LYS:HG3	1.76	0.51
44:RI:301:MET:HE3	44:RI:302:MET:H	1.75	0.51
45:RJ:263:LEU:HG	45:RJ:422:TYR:CD1	2.43	0.51
44:RK:259:LEU:HD13	44:RK:268:MET:CE	2.41	0.51
45:RL:73:MET:HA	45:RL:76:VAL:HG12	1.92	0.51
45:RL:326:VAL:C	45:RL:330:MET:HE1	2.31	0.51
45:RL:331:LEU:HD22	44:RM:177:VAL:CG2	2.39	0.51
44:RM:183:GLU:CD	44:RM:184:PRO:HD3	2.32	0.51
44:RM:203:MET:N	44:RM:269:LEU:HA	2.26	0.51
44:RM:213:CYS:HA	44:RM:217:LEU:HB2	1.91	0.51
44:RM:319:TYR:HA	44:RM:375:VAL:HA	1.91	0.51
45:RN:113:ILE:HB	45:RN:147:MET:HE1	1.93	0.51
45:RN:315:ALA:N	45:RN:350:LYS:O	2.44	0.51
45:SB:137:HIS:NE2	45:SB:168:SER:OG	2.43	0.51
45:SB:212:PHE:O	45:SB:216:LYS:HA	2.11	0.51
44:SC:287:SER:O	44:SC:290:GLU:N	2.43	0.51
45:SD:7:ILE:O	45:SD:135:ILE:HA	2.11	0.51
44:SE:184:PRO:O	44:SE:188:ILE:HG12	2.11	0.51
44:SG:276:ILE:HD13	44:SG:281:ALA:HA	1.89	0.51
44:SG:329:ASN:O	44:SG:332:ILE:HG22	2.10	0.51
45:SH:100:ASN:ND2	45:SH:103:LYS:HB2	2.19	0.51
44:SI:4:VAL:HB	44:SI:133:GLN:HB2	1.92	0.51
45:SJ:406:MET:HE2	45:SJ:409:THR:HG21	1.93	0.51
45:SL:296:ALA:HB2	45:SL:306:ARG:NH2	2.26	0.51
44:SM:98:ASP:OD1	44:SM:99:ALA:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:387:VAL:HG12	44:SM:390:ARG:NH1	2.26	0.51
44:TA:9:VAL:CA	44:TA:68:LEU:HB2	2.41	0.51
45:TB:184:ASN:OD1	45:TB:185:ALA:N	2.44	0.51
44:TE:88:HIS:HB3	44:TE:91:GLN:HB3	1.93	0.51
44:TE:276:ILE:HG23	44:TE:281:ALA:CB	2.41	0.51
45:TF:322:SER:HB3	44:TG:221:ARG:CG	2.41	0.51
45:TF:324:LYS:O	45:TF:327:ASP:N	2.43	0.51
44:TG:230:LEU:HD12	44:TG:275:ILE:CD1	2.41	0.51
44:TG:326:LYS:HD3	45:TH:212:PHE:HZ	1.75	0.51
45:TJ:304:ASP:HB3	45:TJ:307:HIS:CD2	2.46	0.51
45:TJ:310:TYR:CD1	45:TJ:371:SER:HB2	2.46	0.51
45:TL:130:LEU:HG	45:TL:162:ARG:CD	2.41	0.51
45:TL:211:CYS:HB3	45:TL:217:LEU:HG	1.93	0.51
45:TL:404:ASP:N	45:TL:407:GLU:OE2	2.39	0.51
44:TM:137:VAL:HG12	44:TM:167:LEU:O	2.11	0.51
44:UA:171:ILE:HG23	44:UA:204:LEU:O	2.11	0.51
44:UA:377:MET:CE	44:UA:379:SER:HB3	2.37	0.51
45:UB:112:LEU:HD23	45:UB:112:LEU:O	2.11	0.51
45:UD:173:PRO:CG	45:UD:380:ARG:HD3	2.41	0.51
44:UE:18:ASN:O	44:UE:21:TRP:N	2.42	0.51
44:UE:189:LEU:O	44:UE:192:HIS:N	2.44	0.51
45:UF:6:HIS:CE1	45:UF:134:GLN:HE21	2.28	0.51
45:UF:10:GLY:O	45:UF:14:ASN:ND2	2.44	0.51
45:UF:32:PRO:HG3	45:UF:81:PHE:CE2	2.45	0.51
44:UG:209:ILE:CG1	44:UG:302:MET:HG3	2.40	0.51
44:UG:346:TRP:CG	45:UH:391:ARG:HG3	2.45	0.51
45:UH:68:LEU:HD23	45:UH:97:ALA:N	2.25	0.51
45:UH:316:LEU:HB2	45:UH:366:THR:CG2	2.41	0.51
45:UJ:99:ASN:H	45:UJ:142:GLY:HA3	1.75	0.51
45:UL:134:GLN:HG3	45:UL:134:GLN:O	2.11	0.51
44:UM:384:ILE:HD11	44:UM:387:VAL:HG21	1.92	0.51
45:UN:383:GLU:O	45:UN:386:THR:HG22	2.11	0.51
44:VA:5:ILE:CD1	44:VA:132:LEU:HD11	2.41	0.51
44:VA:212:ILE:HG21	44:VA:275:ILE:HD12	1.92	0.51
44:VA:384:ILE:HG13	44:VA:387:VAL:HG22	1.92	0.51
44:VC:88:HIS:CG	44:VC:89:PRO:HD2	2.46	0.51
44:VC:161:TYR:HB3	44:VC:164:LYS:CE	2.41	0.51
44:VC:408:TYR:CB	44:VC:418:PHE:HZ	2.24	0.51
44:VE:208:ALA:HB3	44:VE:302:MET:O	2.11	0.51
45:VF:165:GLU:OE2	45:VF:250:LEU:HD22	2.11	0.51
44:VG:207:GLU:O	44:VG:210:TYR:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:288:VAL:CG1	44:VG:327:ASP:HB3	2.33	0.51
44:VI:60:LYS:HD3	44:WI:283:HIS:CE1	2.45	0.51
45:VJ:19:LYS:O	45:VJ:23:VAL:HG23	2.11	0.51
44:VK:63:PRO:CG	44:VK:86:LEU:HG	2.40	0.51
44:VK:98:ASP:OD1	44:VK:99:ALA:N	2.44	0.51
44:VK:289:ALA:O	44:VK:293:ASN:N	2.40	0.51
45:VL:317:PHE:O	45:VL:354:CYS:N	2.44	0.51
44:VM:295:ALA:HB1	44:VM:377:MET:CE	2.40	0.51
45:WB:221:THR:H	45:WB:224:ASP:HB2	1.75	0.51
44:WC:223:THR:OG1	45:WD:323:THR:HG23	2.11	0.51
44:WC:352:LYS:HD3	45:WF:178:THR:OG1	2.11	0.51
44:WE:107:HIS:ND1	44:WE:107:HIS:O	2.43	0.51
44:WG:39:ASP:C	44:WG:41:THR:HA	2.31	0.51
44:WG:84:ARG:HG3	44:WG:85:GLN:OE1	2.11	0.51
44:WK:141:VAL:HG23	44:WK:147:SER:CA	2.36	0.51
44:WM:26:LEU:HD21	44:WM:363:VAL:HA	1.93	0.51
44:WM:332:ILE:O	44:WM:336:LYS:HG2	2.11	0.51
44:WM:405:VAL:HG12	44:WM:409:VAL:CG2	2.39	0.51
3:0B:214:LYS:HA	44:JI:46:ASP:CB	2.35	0.51
2:1A:70:HIS:O	44:AE:221:ARG:HG2	2.11	0.51
20:1J:142:VAL:CB	44:IE:285:GLN:HG3	2.41	0.51
20:1J:171:TYR:OH	45:HH:57:GLY:N	2.44	0.51
20:1J:198:ARG:HD3	44:IG:370:LYS:HB2	1.92	0.51
22:1L:490:TYR:HE2	45:BH:80:PRO:HG3	1.74	0.51
27:1W:185:PHE:CD1	45:LD:78:ALA:HB1	2.46	0.51
17:2B:3:TRP:CB	45:LL:320:ARG:HH22	2.22	0.51
17:2B:62:THR:CA	44:LK:84:ARG:HH22	2.16	0.51
32:2I:95:LYS:HE2	45:GF:336:LYS:CD	2.40	0.51
24:2O:257:GLN:CD	44:UI:58:ALA:HB3	2.31	0.51
28:4C:223:GLN:HG2	44:KM:219:ILE:HG21	1.93	0.51
37:5D:55:ALA:HB2	44:KK:435:VAL:CG2	2.40	0.51
37:5D:107:TYR:HA	44:NM:277:SER:CB	2.40	0.51
38:5G:110:ARG:HH21	38:5G:111:ASN:ND2	2.08	0.51
38:5G:189:ILE:HG13	38:5G:190:GLN:N	2.26	0.51
38:5H:48:ARG:NH2	38:5H:50:GLU:HA	2.26	0.51
35:5R:556:ILE:CG2	35:5R:564:ILE:HD13	2.40	0.51
36:5S:218:ILE:HG13	36:5S:219:GLN:N	2.26	0.51
40:6F:72:GLN:O	40:6F:72:GLN:HG3	2.11	0.51
35:7R:311:LYS:HG2	35:7R:327:GLU:HB2	1.92	0.51
35:7R:331:PRO:HB2	35:7R:364:MET:CE	2.41	0.51
35:7R:561:ARG:O	35:7R:561:ARG:HD3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:8N:62:UNK:O	42:8N:66:UNK:N	2.43	0.51
44:AA:71:GLU:OE2	44:AA:73:THR:HG22	2.11	0.51
44:AA:207:GLU:OE2	44:AA:304:LYS:NZ	2.44	0.51
44:AA:253:THR:O	44:AA:256:GLN:HG3	2.11	0.51
44:AC:115:VAL:HG22	44:AC:119:LEU:HD23	1.92	0.51
44:AC:265:ILE:HG23	44:AC:432:TYR:OH	2.11	0.51
45:AD:21:TRP:CZ3	45:AD:61:PRO:HB3	2.46	0.51
45:AD:132:GLY:HA3	45:AD:163:ILE:HG22	1.92	0.51
45:AD:166:THR:OG1	45:AD:199:CYS:HA	2.11	0.51
44:AE:212:ILE:CD1	44:AE:300:ASN:HA	2.41	0.51
44:AI:269:LEU:HD12	44:AI:269:LEU:O	2.11	0.51
45:AJ:8:GLN:HE21	45:AJ:65:LEU:HD11	1.76	0.51
45:AJ:198:GLU:OE2	45:AJ:254:ALA:HB2	2.11	0.51
45:AL:101:TRP:HD1	45:AL:145:SER:OG	1.94	0.51
45:AL:184:ASN:OD1	45:AL:185:ALA:N	2.44	0.51
45:AL:213:ARG:CG	45:AL:297:LYS:HD2	2.29	0.51
44:AM:183:GLU:N	44:AM:184:PRO:HD2	2.26	0.51
44:AM:273:ALA:HB1	44:AM:274:PRO:HA	1.92	0.51
44:BA:408:TYR:HB3	44:BA:413:MET:CE	2.41	0.51
44:BC:9:VAL:HG21	44:BC:149:LEU:HB3	1.92	0.51
44:BC:30:ILE:CG2	44:BC:34:GLY:HA2	2.41	0.51
44:BC:224:TYR:CD2	45:BD:323:THR:HG21	2.45	0.51
44:BC:370:LYS:O	44:BC:370:LYS:HD2	2.10	0.51
44:BC:402:ARG:O	44:BC:405:VAL:HG22	2.11	0.51
45:BD:65:LEU:HD11	45:BD:85:PHE:CE2	2.45	0.51
45:BD:333:VAL:HG22	45:BD:333:VAL:O	2.11	0.51
44:BE:121:ARG:NH1	44:BE:121:ARG:HG2	2.25	0.51
44:BG:306:ASP:OD1	44:BG:308:ARG:HB2	2.10	0.51
44:BG:363:VAL:HG23	44:BG:364:PRO:HD2	1.92	0.51
44:BI:187:SER:O	44:BI:190:SER:OG	2.18	0.51
44:BI:221:ARG:N	44:BI:222:PRO:HD3	2.26	0.51
44:BI:242:LEU:HD11	44:BI:252:ILE:HG12	1.92	0.51
44:BK:166:LYS:C	44:BK:167:LEU:HD12	2.31	0.51
44:BK:195:LEU:HD13	44:BK:267:PHE:CE1	2.46	0.51
44:BK:352:LYS:HZ3	45:BN:178:THR:HG22	1.75	0.51
44:BM:25:CYS:HG	44:BM:53:PHE:HZ	1.58	0.51
44:BM:273:ALA:HA	44:BM:275:ILE:HD12	1.91	0.51
45:CB:190:HIS:O	45:CB:193:VAL:HG12	2.11	0.51
45:CD:65:LEU:HB3	45:CD:73:MET:CE	2.40	0.51
45:CD:345:ILE:O	45:CD:345:ILE:CG2	2.59	0.51
45:CD:345:ILE:HD11	44:CE:404:PHE:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:277:SER:O	44:CE:281:ALA:HB2	2.10	0.51
45:CF:134:GLN:HA	45:CF:165:GLU:HB2	1.92	0.51
44:CG:287:SER:N	44:CG:290:GLU:OE2	2.40	0.51
44:CI:104:ALA:CB	44:CI:413:MET:HG2	2.41	0.51
45:CJ:105:HIS:CE1	45:CJ:150:LEU:HD11	2.46	0.51
45:CJ:187:LEU:HD11	45:CJ:408:PHE:CE1	2.46	0.51
44:CK:183:GLU:N	44:CK:184:PRO:HD2	2.26	0.51
45:CL:165:GLU:HA	45:CL:198:GLU:O	2.10	0.51
45:CL:257:LEU:HB3	45:CL:266:PHE:CZ	2.46	0.51
44:CM:88:HIS:H	44:CM:91:GLN:HE21	1.59	0.51
44:CM:156:ARG:O	44:CM:159:VAL:HG12	2.11	0.51
45:DB:317:PHE:O	45:DB:354:CYS:HB3	2.11	0.51
44:DC:4:VAL:HG23	44:DC:134:GLY:O	2.11	0.51
45:DD:2:ARG:O	45:DD:2:ARG:HG2	2.10	0.51
45:DD:302:ALA:HB3	45:DD:377:MET:CE	2.37	0.51
45:DD:378:PHE:HB3	45:DD:419:VAL:CG2	2.41	0.51
44:DE:207:GLU:HA	44:DE:210:TYR:CD2	2.46	0.51
44:DE:273:ALA:HB1	44:DE:274:PRO:HA	1.92	0.51
45:DF:130:LEU:HD21	45:DF:133:PHE:CZ	2.46	0.51
45:DH:383:GLU:O	45:DH:386:THR:HG22	2.10	0.51
44:DI:121:ARG:O	44:DI:125:LEU:HD23	2.11	0.51
44:DI:204:LEU:HD22	44:DI:231:ILE:CD1	2.41	0.51
44:DK:331:SER:O	44:DK:335:ILE:HG12	2.10	0.51
44:DK:387:VAL:HG12	44:DK:390:ARG:HH11	1.76	0.51
44:DM:190:SER:O	44:DM:194:LEU:N	2.31	0.51
44:DM:190:SER:OG	44:DM:194:LEU:HD23	2.11	0.51
44:EA:6:SER:HA	44:EA:136:LEU:HB2	1.93	0.51
44:EC:21:TRP:CD1	44:EC:87:PHE:HZ	2.28	0.51
44:EC:271:SER:O	44:EC:377:MET:HG2	2.11	0.51
45:ED:299:MET:CG	45:ED:305:PRO:HG3	2.37	0.51
45:EF:81:PHE:O	45:EF:84:LEU:HB2	2.11	0.51
45:EF:285:THR:CB	45:EF:287:PRO:HD2	2.41	0.51
44:EG:70:LEU:O	44:EG:98:ASP:HA	2.11	0.51
44:EG:198:THR:CG2	44:EG:199:ASP:H	2.21	0.51
45:EJ:178:THR:N	45:EJ:181:GLU:OE2	2.43	0.51
44:EK:200:VAL:HG13	44:EK:268:MET:CE	2.40	0.51
45:EN:213:ARG:HH21	45:EN:297:LYS:CD	2.24	0.51
45:FB:267:MET:O	45:FB:368:VAL:HA	2.11	0.51
45:FB:272:PRO:HG2	45:FB:361:LEU:CD1	2.40	0.51
45:FB:313:ALA:HB1	45:FB:367:PHE:CZ	2.45	0.51
45:FD:101:TRP:CH2	45:FD:187:LEU:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:174:SER:OG	44:FE:207:GLU:HG2	2.10	0.51
45:FF:130:LEU:HD11	45:FF:133:PHE:CE1	2.45	0.51
45:FF:388:MET:HG2	45:FF:393:ALA:HB3	1.93	0.51
44:FG:55:GLU:HG3	44:FG:57:GLY:H	1.76	0.51
45:FH:130:LEU:CD2	45:FH:162:ARG:HD3	2.41	0.51
45:FJ:27:GLU:HG3	45:FJ:28:HIS:CD2	2.46	0.51
44:FK:287:SER:HB3	44:FK:290:GLU:HB3	1.93	0.51
44:FK:297:GLU:CG	44:FK:298:PRO:HD2	2.41	0.51
45:FL:36:TYR:CZ	45:FL:44:LEU:HD11	2.46	0.51
45:FL:46:ARG:CZ	45:FL:46:ARG:HB2	2.40	0.51
44:FM:321:GLY:N	44:FM:356:ASN:O	2.43	0.51
45:FN:172:SER:OG	45:FN:205:GLU:HB2	2.11	0.51
44:GA:248:LEU:HD11	48:GD:503:GDP:O2A	2.11	0.51
44:GA:298:PRO:HB3	44:GA:307:PRO:HD2	1.91	0.51
45:GD:374:ILE:HD11	45:GD:422:TYR:CZ	2.46	0.51
44:GE:348:PRO:HB3	45:GH:384:GLN:OE1	2.11	0.51
44:GG:23:LEU:HD23	44:GG:236:SER:HB2	1.91	0.51
45:GH:102:ALA:HB2	45:GH:398:TYR:HD1	1.76	0.51
45:GH:314:SER:OG	45:GH:350:LYS:HB3	2.11	0.51
44:GK:55:GLU:OE1	44:GK:61:HIS:NE2	2.43	0.51
44:GK:70:LEU:HD12	44:GK:145:THR:CG2	2.40	0.51
44:GK:70:LEU:HD12	44:GK:145:THR:HB	1.93	0.51
44:GK:99:ALA:HB3	44:GK:145:THR:CG2	2.40	0.51
44:GK:188:ILE:HG23	44:GK:425:LEU:HD11	1.92	0.51
45:GL:268:ILE:HG22	45:GL:368:VAL:CG1	2.34	0.51
44:GM:132:LEU:HD12	44:GM:132:LEU:N	2.25	0.51
45:HD:416:ASN:O	45:HD:419:VAL:N	2.43	0.51
44:HE:1:MET:O	44:HE:131:GLY:HA3	2.10	0.51
44:HE:102:ASN:OD1	44:HE:104:ALA:HB3	2.10	0.51
45:HF:36:TYR:CD1	45:HF:44:LEU:HD11	2.46	0.51
45:HF:163:ILE:CD1	45:HF:250:LEU:HB2	2.41	0.51
44:HG:314:ALA:O	44:HG:379:SER:HB2	2.11	0.51
45:HH:8:GLN:O	45:HH:66:MET:HG3	2.09	0.51
45:HH:289:LEU:HD11	45:HH:363:MET:SD	2.51	0.51
44:HI:223:THR:CG2	45:HJ:320:ARG:HH22	2.21	0.51
45:HJ:248:SER:HA	45:HJ:252:LYS:HD2	1.92	0.51
44:HK:188:ILE:HD11	44:HK:391:LEU:HG	1.93	0.51
44:HK:344:VAL:HG12	44:HK:347:CYS:HB3	1.93	0.51
45:HN:175:VAL:CG2	45:HN:204:ASN:HB2	2.40	0.51
45:HN:388:MET:HE3	45:HN:394:PHE:HB2	1.93	0.51
45:IB:2:ARG:H	45:IB:129:CYS:CB	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:258:ILE:HD11	45:IB:261:PRO:O	2.11	0.51
44:IC:183:GLU:HG3	44:IC:184:PRO:HD3	1.93	0.51
45:ID:263:LEU:HG	45:ID:422:TYR:CD1	2.46	0.51
45:IF:189:VAL:HG12	45:IF:415:MET:HE1	1.92	0.51
44:IG:21:TRP:CZ2	44:IG:65:ALA:HB2	2.46	0.51
44:IG:204:LEU:CD1	44:IG:231:ILE:HD12	2.33	0.51
45:IH:105:HIS:HD1	45:IH:106:TYR:HD1	1.58	0.51
44:II:195:LEU:HD13	44:II:267:PHE:HE1	1.75	0.51
45:IJ:256:ASN:C	45:IJ:257:LEU:HD22	2.31	0.51
44:IK:141:VAL:HG11	44:IK:187:SER:HA	1.93	0.51
44:IK:240:ALA:HB1	44:IK:320:ARG:HD2	1.91	0.51
45:IL:105:HIS:CD2	45:IL:150:LEU:HB2	2.45	0.51
45:IL:130:LEU:HD11	45:IL:133:PHE:HE1	1.75	0.51
44:IM:2:ARG:H	44:IM:2:ARG:HD3	1.75	0.51
45:IN:131:GLN:O	45:IN:163:ILE:HG12	2.11	0.51
45:IN:318:ARG:N	45:IN:364:ALA:O	2.33	0.51
44:JA:98:ASP:HB3	45:JB:249:ASP:OD2	2.11	0.51
44:JA:115:VAL:CG2	44:JA:152:LEU:HD21	2.40	0.51
45:JB:263:LEU:HD22	45:JB:422:TYR:HD1	1.76	0.51
45:JB:318:ARG:NH1	45:JB:358:PRO:HG3	2.25	0.51
45:JF:117:LEU:O	45:JF:117:LEU:HD23	2.11	0.51
45:JF:257:LEU:HD11	45:JF:314:SER:CB	2.38	0.51
45:JF:354:CYS:SG	45:JF:355:ASP:N	2.84	0.51
44:JG:276:ILE:HG13	44:JG:281:ALA:HB2	1.92	0.51
45:JH:263:LEU:CD2	45:JH:422:TYR:CD2	2.93	0.51
44:JI:56:THR:HG21	44:JI:60:LYS:HG3	1.93	0.51
44:JI:223:THR:HG23	44:JI:225:THR:H	1.76	0.51
44:JI:323:VAL:HG13	44:JI:355:ILE:HD12	1.91	0.51
45:JJ:75:SER:HA	45:JJ:78:ALA:HB2	1.92	0.51
44:JK:24:PHE:O	44:JK:27:GLU:HG2	2.10	0.51
44:JM:80:THR:O	44:JM:80:THR:HG22	2.11	0.51
44:KA:105:ARG:O	44:KA:110:ILE:HG12	2.11	0.51
45:KB:221:THR:HG23	45:KB:224:ASP:H	1.75	0.51
44:KC:3:GLU:OE1	44:KC:129:CYS:HA	2.10	0.51
45:KD:241:ARG:HG2	45:KD:242:PHE:CE1	2.46	0.51
44:KE:166:LYS:O	44:KE:199:ASP:HB2	2.10	0.51
44:KE:203:MET:HG3	44:KE:384:ILE:HD11	1.93	0.51
44:KE:210:TYR:CD1	44:KE:227:LEU:HD21	2.46	0.51
44:KG:105:ARG:HE	44:KG:110:ILE:HG23	1.75	0.51
44:KG:349:THR:O	45:KJ:179:VAL:HG13	2.11	0.51
45:KJ:268:ILE:O	45:KJ:300:MET:HE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:245:GLN:C	45:KN:246:LEU:HD12	2.32	0.51
44:LA:105:ARG:O	44:LA:109:THR:OG1	2.23	0.51
45:LD:46:ARG:HG3	45:LD:49:VAL:CG2	2.40	0.51
44:LE:260:VAL:HG13	44:LE:260:VAL:O	2.11	0.51
44:LG:404:PHE:HZ	45:LH:312:THR:HG21	1.74	0.51
45:LH:101:TRP:CE3	45:LH:187:LEU:HD13	2.46	0.51
45:LH:145:SER:HB2	45:LH:188:SER:OG	2.09	0.51
44:LI:11:GLN:HE22	45:LJ:247:ASN:N	2.09	0.51
44:LM:119:LEU:HA	44:LM:122:ILE:HG12	1.91	0.51
45:LN:100:ASN:OD1	45:LN:100:ASN:O	2.28	0.51
45:LN:116:VAL:O	45:LN:120:VAL:HG12	2.11	0.51
45:LN:267:MET:HE2	45:LN:301:CYS:HB3	1.91	0.51
44:MA:93:ILE:HD12	44:MA:93:ILE:H	1.76	0.51
44:MC:27:GLU:OE1	44:MC:243:ARG:NH2	2.44	0.51
44:MC:404:PHE:CE2	45:MD:345:ILE:HD12	2.44	0.51
45:MD:242:PHE:CB	45:MD:356:ILE:HD12	2.41	0.51
45:MD:372:THR:HA	45:MD:422:TYR:OH	2.11	0.51
44:ME:155:GLU:HA	44:ME:197:HIS:ND1	2.25	0.51
44:ME:172:TYR:HB3	44:ME:391:LEU:HD21	1.93	0.51
44:ME:276:ILE:CG1	44:ME:281:ALA:HA	2.41	0.51
44:MG:232:ALA:O	44:MG:235:ILE:HG22	2.11	0.51
44:MG:292:THR:O	44:MG:295:ALA:N	2.36	0.51
45:MH:192:LEU:HD21	45:MH:199:CYS:SG	2.51	0.51
45:MJ:66:MET:HG3	45:MJ:66:MET:O	2.11	0.51
45:MJ:174:LYS:HE2	45:MJ:174:LYS:HA	1.92	0.51
44:MK:22:GLU:HG3	44:MK:83:TYR:CZ	2.46	0.51
44:MK:130:THR:HG23	44:MK:131:GLY:N	2.25	0.51
45:ML:133:PHE:HD2	45:ML:155:VAL:HG11	1.76	0.51
45:ML:286:VAL:HB	45:ML:325:GLU:OE2	2.10	0.51
44:MM:210:TYR:CB	45:MN:324:LYS:HZ3	2.24	0.51
44:MM:242:LEU:HD11	44:MM:252:ILE:HG12	1.92	0.51
44:MM:316:SER:HB2	44:MM:352:LYS:HG2	1.92	0.51
44:NA:356:ASN:OD1	44:NA:357:TYR:N	2.44	0.51
45:NB:179:VAL:O	45:NB:182:PRO:HD2	2.11	0.51
45:NB:192:LEU:O	45:NB:192:LEU:HD23	2.10	0.51
45:NB:201:VAL:HG11	45:NB:374:ILE:HD11	1.92	0.51
45:NB:374:ILE:HA	45:NB:377:MET:HE1	1.93	0.51
44:NC:319:TYR:CD1	44:NC:375:VAL:HG23	2.46	0.51
45:ND:207:LEU:HA	45:ND:210:ILE:HD12	1.93	0.51
45:ND:215:LEU:HD22	45:ND:217:LEU:HD23	1.93	0.51
45:NF:145:SER:O	45:NF:149:THR:N	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:405:GLU:HA	45:NF:408:PHE:CD2	2.37	0.51
44:NG:79:ARG:O	44:NG:84:ARG:HB3	2.11	0.51
44:NG:101:ASN:HA	44:NG:144:GLY:N	2.20	0.51
44:NI:213:CYS:SG	44:NI:217:LEU:HD12	2.51	0.51
45:NJ:47:ILE:HG21	45:NJ:59:TYR:CE2	2.46	0.51
45:NJ:113:ILE:HD11	45:NJ:151:LEU:CD2	2.41	0.51
45:NJ:242:PHE:HB3	45:NJ:356:ILE:HG12	1.93	0.51
45:NJ:350:LYS:HE3	45:NJ:352:SER:OG	2.10	0.51
44:NK:110:ILE:HA	44:NK:113:GLU:CD	2.31	0.51
45:NL:47:ILE:O	45:NL:47:ILE:HG13	2.11	0.51
45:NL:197:ASP:O	45:NL:264:HIS:HB2	2.10	0.51
45:NL:305:PRO:HB2	45:NL:310:TYR:CE1	2.44	0.51
45:NL:383:GLU:HA	45:NL:386:THR:HG22	1.93	0.51
44:NM:60:LYS:HE2	44:OM:283:HIS:HA	1.92	0.51
44:NM:276:ILE:HB	44:NM:369:ALA:N	2.26	0.51
45:NN:272:PRO:HD3	45:NN:364:ALA:HA	1.92	0.51
44:OA:62:VAL:HG13	44:OA:64:ARG:N	2.26	0.51
45:OB:68:LEU:HB3	45:OB:96:GLY:CA	2.38	0.51
45:OB:214:THR:HG23	45:OB:215:LEU:N	2.26	0.51
45:OD:145:SER:HB2	45:OD:188:SER:OG	2.11	0.51
44:OE:222:PRO:HD2	45:OF:324:LYS:CG	2.34	0.51
44:OG:270:SER:CB	44:OG:378:ILE:HG12	2.41	0.51
45:OH:45:GLU:CD	45:OH:46:ARG:HG2	2.30	0.51
45:OH:409:THR:O	45:OH:412:GLU:HG3	2.11	0.51
44:OI:259:LEU:HD21	44:OI:316:SER:CB	2.41	0.51
45:OJ:21:TRP:O	45:OJ:25:SER:N	2.35	0.51
44:OK:319:TYR:CE2	44:OK:328:VAL:HG22	2.45	0.51
45:OL:20:PHE:CE1	45:OL:233:MET:HE2	2.46	0.51
45:OL:86:ARG:CZ	45:PL:278:SER:HB2	2.40	0.51
45:ON:116:VAL:HG13	45:ON:117:LEU:HD12	1.91	0.51
44:PA:100:ALA:HA	45:PB:252:LYS:HE2	1.93	0.51
45:PB:73:MET:SD	45:PB:74:ASP:N	2.84	0.51
44:PC:5:ILE:HA	44:PC:64:ARG:NE	2.26	0.51
45:PD:148:GLY:O	45:PD:152:ILE:HG12	2.10	0.51
45:PF:49:VAL:HG11	45:PF:241:ARG:CG	2.40	0.51
45:PH:103:LYS:HG3	45:PH:108:GLU:HG2	1.93	0.51
45:PH:240:LEU:HD12	45:PH:249:ASP:HB2	1.92	0.51
44:PI:423:GLU:O	44:PI:426:ALA:HB3	2.11	0.51
45:PL:1:MET:C	45:PL:2:ARG:HG2	2.31	0.51
45:PL:149:THR:HG23	45:PL:150:LEU:HD22	1.93	0.51
45:PL:242:PHE:CE2	45:PL:356:ILE:HG21	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:79:ARG:NH1	44:PM:94:SER:HB2	2.26	0.51
44:PM:278:ALA:CA	44:PM:369:ALA:HB2	2.41	0.51
45:PN:185:ALA:O	45:PN:189:VAL:N	2.43	0.51
45:PN:318:ARG:CZ	45:PN:358:PRO:HG3	2.40	0.51
44:QA:320:ARG:HH11	44:QA:374:ALA:HB3	1.76	0.51
45:QB:68:LEU:HG	45:QB:96:GLY:N	2.26	0.51
45:QB:156:ARG:CZ	45:QB:160:PRO:HA	2.41	0.51
45:QB:161:ASP:O	45:QB:251:ARG:NH2	2.29	0.51
45:QB:294:PHE:HE2	45:QB:341:PHE:HZ	1.58	0.51
44:QC:11:GLN:HB2	46:QC:501:GTP:O2A	2.11	0.51
45:QF:135:ILE:O	45:QF:166:THR:HA	2.10	0.51
45:QF:263:LEU:HG	45:QF:422:TYR:CD2	2.45	0.51
44:QG:212:ILE:CG2	44:QG:275:ILE:HD12	2.41	0.51
44:QG:383:ALA:O	44:QG:386:GLU:HG2	2.10	0.51
44:QI:161:TYR:CB	44:QI:164:LYS:HG3	2.39	0.51
44:QI:256:GLN:HE22	45:QJ:397:TRP:HH2	1.59	0.51
45:QL:288:GLU:O	45:QL:291:GLN:HG3	2.11	0.51
44:QM:19:ALA:HA	44:QM:22:GLU:OE1	2.11	0.51
44:QM:85:GLN:O	44:QM:86:LEU:HD22	2.11	0.51
44:QM:287:SER:O	44:QM:291:ILE:HG23	2.10	0.51
44:QM:310:GLY:CA	44:QM:383:ALA:HB2	2.41	0.51
45:QN:103:LYS:HG3	45:QN:107:THR:OG1	2.10	0.51
45:RB:319:GLY:HA2	45:RB:357:PRO:CD	2.35	0.51
44:RC:243:ARG:O	44:RC:244:PHE:HD1	1.94	0.51
44:RC:422:ARG:NH1	44:RC:426:ALA:HB2	2.26	0.51
44:RE:9:VAL:HG21	44:RE:149:LEU:CB	2.41	0.51
45:RF:139:LEU:CA	45:RF:145:SER:HB3	2.36	0.51
45:RF:217:LEU:HD12	45:RF:217:LEU:O	2.11	0.51
45:RF:324:LYS:HG3	44:RG:210:TYR:CG	2.45	0.51
44:RG:236:SER:CA	44:RG:239:THR:HG22	2.40	0.51
44:RG:326:LYS:HD2	44:RG:327:ASP:N	2.26	0.51
45:RH:2:ARG:O	45:RH:2:ARG:HG3	2.10	0.51
45:RH:388:MET:O	45:RH:388:MET:HG2	2.11	0.51
45:RJ:34:GLY:O	45:RJ:58:ARG:HA	2.10	0.51
44:RK:2:ARG:NH1	44:RK:242:LEU:O	2.43	0.51
45:RL:184:ASN:OD1	45:RL:185:ALA:N	2.43	0.51
45:RL:326:VAL:HG12	45:RL:330:MET:HE1	1.92	0.51
44:RM:391:LEU:HA	44:RM:394:LYS:CE	2.41	0.51
45:SB:258:ILE:HB	44:SC:407:TRP:CH2	2.45	0.51
45:SB:337:ASN:HB3	45:SB:340:TYR:CD2	2.44	0.51
45:SD:51:TYR:HA	45:SD:61:PRO:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:303:ALA:HB1	45:SD:373:ALA:O	2.11	0.51
44:SE:89:PRO:HG3	44:TE:283:HIS:ND1	2.25	0.51
44:SE:183:GLU:CD	44:SE:184:PRO:HD3	2.31	0.51
45:SF:3:GLU:CD	45:SF:129:CYS:H	2.14	0.51
45:SF:102:ALA:HB2	45:SF:403:MET:HE1	1.92	0.51
44:SG:99:ALA:O	44:SG:105:ARG:HD3	2.10	0.51
44:SG:268:MET:HG3	44:SG:378:ILE:HG23	1.93	0.51
45:SH:318:ARG:HD3	45:SH:358:PRO:CD	2.41	0.51
44:SI:242:LEU:HD11	44:SI:252:ILE:CD1	2.41	0.51
44:SI:307:PRO:HA	44:SI:383:ALA:CB	2.40	0.51
45:SJ:113:ILE:HA	45:SJ:116:VAL:HG12	1.92	0.51
45:SJ:405:GLU:HG2	45:SJ:406:MET:HE2	1.92	0.51
45:SL:344:TRP:CE3	45:SL:345:ILE:HB	2.46	0.51
44:SM:99:ALA:CB	44:SM:145:THR:HG22	2.41	0.51
44:SM:390:ARG:HG3	44:SM:391:LEU:N	2.26	0.51
44:TA:28:HIS:NE2	44:TA:49:PHE:HA	2.26	0.51
44:TA:145:THR:O	44:TA:149:LEU:HB2	2.10	0.51
45:TB:156:ARG:NH1	45:TB:162:ARG:O	2.44	0.51
44:TC:145:THR:HG22	46:TC:501:GTP:O3G	2.10	0.51
44:TC:387:VAL:HA	44:TC:390:ARG:CG	2.37	0.51
45:TF:26:ASP:CG	45:TF:359:LYS:HE2	2.32	0.51
45:TF:130:LEU:HB3	45:TF:162:ARG:CD	2.40	0.51
45:TF:423:GLN:O	45:TF:426:GLN:HB3	2.10	0.51
44:TG:168:GLY:O	44:TG:202:VAL:N	2.44	0.51
44:TG:242:LEU:HD13	44:TG:252:ILE:HD11	1.93	0.51
45:TH:287:PRO:C	45:TH:290:THR:HG22	2.31	0.51
45:TH:289:LEU:CD1	45:TH:363:MET:HG3	2.41	0.51
44:TI:91:GLN:C	44:TI:93:ILE:HD12	2.31	0.51
44:TI:137:VAL:HG12	44:TI:167:LEU:O	2.10	0.51
45:TJ:237:THR:HG23	45:TJ:241:ARG:HE	1.75	0.51
45:TJ:312:THR:HG23	45:TJ:370:ASN:HD22	1.76	0.51
44:TK:60:LYS:HD3	44:UK:283:HIS:HA	1.92	0.51
45:TL:253:LEU:O	45:TL:257:LEU:HD13	2.10	0.51
44:TM:6:SER:OG	44:TM:65:ALA:HA	2.10	0.51
44:TM:144:GLY:N	46:TM:501:GTP:O2G	2.37	0.51
44:TM:276:ILE:HG23	44:TM:281:ALA:HB2	1.93	0.51
44:TM:296:PHE:HE2	44:TM:335:ILE:HG13	1.76	0.51
45:TN:73:MET:HE2	45:TN:92:PHE:HB3	1.93	0.51
44:UA:229:ARG:HG2	44:UA:229:ARG:HH11	1.75	0.51
45:UB:7:ILE:CG2	45:UB:66:MET:HE3	2.40	0.51
45:UB:183:TYR:OH	45:UB:388:MET:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:313:MET:SD	44:UC:344:VAL:HG11	2.50	0.51
44:UC:325:PRO:HG3	44:UC:355:ILE:HD13	1.92	0.51
45:UD:265:PHE:CE1	45:UD:418:LEU:HD21	2.46	0.51
44:UE:179:THR:O	44:UE:179:THR:HG22	2.09	0.51
44:UE:311:LYS:O	44:UE:382:THR:HG23	2.10	0.51
44:UE:348:PRO:CD	45:UF:388:MET:HB2	2.39	0.51
45:UF:72:THR:HG23	45:UF:73:MET:N	2.26	0.51
45:UH:19:LYS:HG3	45:UH:23:VAL:HG23	1.92	0.51
44:UI:288:VAL:HG21	44:UI:323:VAL:CG2	2.41	0.51
45:UJ:286:VAL:HG12	45:UJ:329:GLN:NE2	2.21	0.51
45:UJ:323:THR:HA	45:UJ:326:VAL:HB	1.93	0.51
44:UK:33:ASP:O	44:UK:85:GLN:HG3	2.10	0.51
44:UK:175:PRO:HD2	44:UK:207:GLU:OE1	2.11	0.51
45:UL:132:GLY:HA3	45:UL:163:ILE:O	2.10	0.51
45:UL:204:ASN:O	45:UL:207:LEU:HB2	2.11	0.51
45:UL:268:ILE:HG13	45:UL:300:MET:HE2	1.91	0.51
45:UL:384:GLN:O	45:UL:388:MET:HE2	2.11	0.51
44:UM:91:GLN:HE22	44:UM:125:LEU:HD21	1.75	0.51
44:UM:102:ASN:OD1	44:UM:411:GLU:HG3	2.11	0.51
44:VA:14:ILE:CD1	44:VA:69:ASP:HB2	2.38	0.51
45:VB:86:ARG:NH2	45:WB:278:SER:HA	2.26	0.51
45:VB:114:ASP:OD1	45:VB:115:SER:N	2.44	0.51
44:VC:107:HIS:CE1	44:VC:152:LEU:HB2	2.46	0.51
44:VE:288:VAL:HA	44:VE:291:ILE:HG12	1.92	0.51
45:VF:204:ASN:HA	45:VF:207:LEU:CD1	2.40	0.51
45:VF:204:ASN:O	45:VF:207:LEU:HB2	2.11	0.51
44:VG:54:SER:HB3	44:VG:64:ARG:NH2	2.26	0.51
44:VG:407:TRP:CH2	45:VH:255:VAL:HA	2.45	0.51
45:VH:83:GLN:OE1	45:VH:83:GLN:HA	2.09	0.51
45:VH:86:ARG:CG	45:VH:89:ASN:H	2.24	0.51
45:VH:100:ASN:ND2	45:VH:401:GLU:OE1	2.42	0.51
44:VI:135:PHE:CE2	44:VI:157:LEU:HD22	2.46	0.51
45:VJ:338:SER:HA	45:VJ:341:PHE:HE2	1.74	0.51
45:VL:20:PHE:CD1	45:VL:233:MET:HB3	2.46	0.51
45:VL:406:MET:O	45:VL:410:GLU:HG3	2.11	0.51
44:VM:132:LEU:HD11	44:VM:135:PHE:CZ	2.46	0.51
45:VN:117:LEU:HD13	45:VN:154:LYS:HD2	1.93	0.51
44:WA:68:LEU:HD21	44:WA:118:CYS:CB	2.40	0.51
44:WA:226:ASN:HD22	44:WA:229:ARG:NH2	2.08	0.51
44:WA:270:SER:CB	44:WA:378:ILE:HD13	2.41	0.51
44:WA:315:CYS:CA	44:WA:379:SER:HB3	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WA:404:PHE:CD1	45:WB:259:PRO:HA	2.45	0.51
44:WC:237:SER:OG	44:WC:320:ARG:HD2	2.11	0.51
44:WC:242:LEU:HD22	44:WC:252:ILE:CD1	2.41	0.51
45:WD:141:GLY:HA3	48:WD:501:GDP:O3A	2.10	0.51
45:WD:242:PHE:HB2	45:WD:354:CYS:SG	2.51	0.51
44:WE:11:GLN:CD	45:WF:246:LEU:HA	2.31	0.51
44:WI:13:GLY:O	44:WI:16:VAL:HG12	2.11	0.51
45:WJ:323:THR:O	45:WJ:326:VAL:HB	2.10	0.51
44:WK:13:GLY:HA2	44:WK:16:VAL:HG12	1.92	0.51
44:WK:270:SER:CB	44:WK:378:ILE:HD13	2.34	0.51
44:WM:19:ALA:HA	44:WM:22:GLU:OE1	2.10	0.51
44:WM:25:CYS:O	44:WM:29:GLY:N	2.44	0.51
44:WM:217:LEU:CD2	44:WM:367:ASP:HB3	2.30	0.51
44:WM:344:VAL:CG1	44:WM:347:CYS:HB3	2.40	0.51
45:WN:320:ARG:O	45:WN:321:MET:CG	2.56	0.51
2:0A:150:LEU:HD11	35:7R:89:ASP:CB	2.39	0.51
8:0G:24:GLU:HG2	45:JL:216:LYS:HD2	1.92	0.51
15:0V:62:HIS:CE1	45:LN:162:ARG:HH22	2.28	0.51
2:1A:136:ASN:HB3	45:AF:245:GLN:HE21	1.76	0.51
22:1L:751:ARG:NH1	45:BD:359:LYS:HA	2.25	0.51
15:1V:96:ASN:HB2	45:LJ:262:ARG:CG	2.36	0.51
5:2D:225:ARG:NH2	35:5R:598:TRP:HB2	2.24	0.51
6:2E:118:ARG:NH1	35:5R:537:LYS:HZ3	2.09	0.51
26:2R:183:LYS:NZ	45:AJ:32:PRO:HB2	2.26	0.51
2:3A:124:LEU:HD22	45:AN:279:GLN:HE22	1.75	0.51
24:3O:246:GLU:HG2	45:UN:276:ARG:HG3	1.93	0.51
15:3V:96:ASN:H	45:LB:262:ARG:HD2	1.75	0.51
34:4F:71:TYR:HE2	44:II:26:LEU:CD1	2.18	0.51
34:4F:160:THR:CA	45:IN:320:ARG:HH21	2.21	0.51
35:4R:102:SER:O	45:BH:280:GLN:NE2	2.43	0.51
35:4R:390:GLY:N	45:EF:276:ARG:HH12	2.09	0.51
37:5D:107:TYR:C	44:NM:278:ALA:N	2.64	0.51
11:5Q:41:ASP:O	11:5Q:186:PRO:HB3	2.11	0.51
35:5R:528:ILE:O	35:5R:531:THR:OG1	2.24	0.51
35:5R:552:LEU:HG	35:5R:556:ILE:CD1	2.40	0.51
36:5S:119:LEU:O	36:5S:119:LEU:HD23	2.10	0.51
41:6G:265:LEU:CD1	44:VA:339:ARG:HD2	2.41	0.51
11:6Q:35:LYS:CD	11:6Q:37:ILE:HD11	2.36	0.51
11:6Q:75:PHE:HB2	11:6Q:169:ASP:N	2.25	0.51
35:6R:28:THR:HB	44:LK:46:ASP:HB3	1.91	0.51
35:6R:413:ILE:HG23	35:6R:417:TYR:CE2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:236:LEU:HD11	44:BA:1:MET:HE1	1.93	0.51
35:7R:423:ILE:HD13	35:7R:447:PHE:HD2	1.76	0.51
35:7R:428:GLY:HA2	35:7R:506:LEU:H	1.76	0.51
35:7R:542:TYR:CE1	35:7R:551:LEU:HD13	2.46	0.51
42:8N:297:UNK:O	42:8N:298:UNK:CB	2.59	0.51
44:AA:209:ILE:HG23	44:AA:227:LEU:HD22	1.93	0.51
45:AB:66:MET:HE1	45:AB:116:VAL:CG2	2.41	0.51
44:AC:3:GLU:HG3	44:AC:129:CYS:CB	2.41	0.51
44:AC:264:ARG:O	44:AC:266:HIS:ND1	2.44	0.51
44:AC:370:LYS:O	44:AC:370:LYS:HD2	2.11	0.51
45:AD:5:VAL:HG23	45:AD:62:ARG:O	2.10	0.51
45:AD:416:ASN:O	45:AD:419:VAL:HG12	2.11	0.51
44:AG:317:MET:CE	44:AG:319:TYR:CE1	2.93	0.51
44:AG:339:ARG:HG2	44:AG:339:ARG:O	2.10	0.51
45:AH:398:TYR:HD1	45:AH:408:PHE:HZ	1.59	0.51
45:AJ:203:ASP:OD2	45:AJ:377:MET:HE3	2.11	0.51
45:AJ:279:GLN:HA	45:AJ:279:GLN:OE1	2.11	0.51
45:AJ:289:LEU:HD12	45:AJ:363:MET:SD	2.51	0.51
44:AK:71:GLU:OE2	45:AL:2:ARG:NH2	2.44	0.51
44:AK:102:ASN:HB3	44:AK:105:ARG:HG3	1.93	0.51
45:AL:3:GLU:CB	45:AL:49:VAL:HA	2.41	0.51
45:AL:8:GLN:NE2	45:AL:14:ASN:HA	2.26	0.51
45:AL:201:VAL:O	45:AL:202:ILE:HD13	2.10	0.51
45:AN:92:PHE:C	45:AN:112:LEU:HD11	2.32	0.51
45:AN:202:ILE:HD11	45:AN:268:ILE:HG12	1.92	0.51
44:BA:76:ASP:HA	44:BA:79:ARG:HB2	1.91	0.51
44:BE:101:ASN:OD1	45:BF:252:LYS:HG3	2.11	0.51
45:BF:345:ILE:HG23	45:BF:348:ASN:HB3	1.93	0.51
44:BG:3:GLU:HG2	44:BG:64:ARG:NH1	2.26	0.51
44:BG:66:VAL:HG11	44:BG:122:ILE:CD1	2.39	0.51
44:BG:312:TYR:HB2	44:BG:343:PHE:HD2	1.76	0.51
45:BH:173:PRO:HG3	45:BH:380:ARG:HB2	1.91	0.51
45:BH:200:MET:HE2	45:BH:268:ILE:CG2	2.31	0.51
44:BI:195:LEU:HD12	44:BI:266:HIS:NE2	2.26	0.51
44:BK:289:ALA:O	44:BK:292:THR:HG22	2.10	0.51
44:BK:388:PHE:HB2	44:BK:429:GLU:OE2	2.10	0.51
45:BN:186:THR:HG23	45:BN:187:LEU:N	2.26	0.51
44:CA:320:ARG:NH2	44:CA:359:PRO:O	2.44	0.51
45:CB:257:LEU:HD11	45:CB:314:SER:CB	2.41	0.51
45:CB:378:PHE:HB3	45:CB:419:VAL:CG2	2.41	0.51
44:CC:264:ARG:HH21	44:CC:428:LEU:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:199:ASP:O	44:CE:266:HIS:HB2	2.11	0.51
44:CE:276:ILE:HG13	44:CE:280:LYS:NZ	2.26	0.51
44:CE:291:ILE:HG13	44:CE:292:THR:N	2.26	0.51
44:CG:137:VAL:CG1	44:CG:168:GLY:HA2	2.41	0.51
45:CH:42:LEU:HA	45:CH:45:GLU:OE2	2.10	0.51
45:CH:261:PRO:HD3	44:CI:406:HIS:CD2	2.46	0.51
44:CI:185:TYR:O	44:CI:189:LEU:HD23	2.11	0.51
45:CJ:286:VAL:CG1	45:CJ:287:PRO:CD	2.89	0.51
44:CK:317:MET:O	44:CK:318:MET:HE2	2.11	0.51
45:CL:166:THR:OG1	45:CL:199:CYS:SG	2.68	0.51
44:CM:15:GLN:HA	44:CM:18:ASN:ND2	2.25	0.51
45:CN:11:GLN:NE2	45:CN:72:THR:HA	2.26	0.51
45:CN:374:ILE:HG22	45:CN:377:MET:HE1	1.92	0.51
44:DA:182:VAL:O	44:DA:182:VAL:HG22	2.11	0.51
44:DA:205:ASP:OD1	44:DA:208:ALA:HB2	2.11	0.51
45:DB:193:VAL:HG21	45:DB:418:LEU:CD2	2.41	0.51
45:DB:324:LYS:HE2	44:DC:210:TYR:CB	2.32	0.51
45:DD:256:ASN:O	45:DD:257:LEU:HD12	2.10	0.51
44:DE:88:HIS:ND1	44:DE:90:GLU:HG2	2.25	0.51
44:DE:191:THR:HA	44:DE:194:LEU:HG	1.93	0.51
44:DE:201:ALA:O	44:DE:268:MET:HB2	2.12	0.51
45:DF:375:GLN:O	45:DF:379:LYS:HG3	2.10	0.51
45:DF:385:PHE:HA	45:DF:388:MET:CE	2.41	0.51
44:DG:46:ASP:O	44:DG:47:ASP:HB2	2.10	0.51
44:DG:402:ARG:NH1	44:DG:415:GLU:OE2	2.43	0.51
45:DH:49:VAL:HG21	45:DH:241:ARG:CG	2.41	0.51
44:DK:4:VAL:HG23	44:DK:134:GLY:O	2.11	0.51
45:DL:178:THR:H	45:DL:181:GLU:CD	2.14	0.51
45:DN:192:LEU:O	45:DN:196:ALA:N	2.44	0.51
45:DN:413:SER:HA	45:DN:416:ASN:HB3	1.92	0.51
45:EB:42:LEU:HD22	45:EB:45:GLU:OE2	2.11	0.51
45:EB:314:SER:CB	45:EB:350:LYS:HB3	2.40	0.51
44:EC:384:ILE:HD11	44:EC:432:TYR:HE1	1.76	0.51
44:EE:31:GLN:HB3	44:EE:32:PRO:HD2	1.93	0.51
44:EE:102:ASN:HB3	44:EE:105:ARG:HG3	1.93	0.51
44:EE:124:LYS:O	44:EE:127:ASP:N	2.44	0.51
44:EE:263:PRO:HD3	45:EF:396:HIS:ND1	2.26	0.51
44:EE:344:VAL:HG22	44:EE:345:ASP:H	1.76	0.51
44:EE:433:GLU:O	44:EE:437:ILE:HG23	2.11	0.51
45:EF:130:LEU:HG	45:EF:162:ARG:NH2	2.26	0.51
45:EF:133:PHE:HD2	45:EF:164:MET:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:203:MET:HB3	44:EG:303:ALA:CB	2.41	0.51
45:EH:164:MET:CE	45:EH:196:ALA:HA	2.41	0.51
45:EH:269:GLY:HA2	45:EH:300:MET:CE	2.41	0.51
45:EJ:135:ILE:N	45:EJ:165:GLU:O	2.43	0.51
44:EK:284:GLU:HG3	44:EK:286:LEU:CD2	2.36	0.51
45:EL:345:ILE:HG23	45:EL:345:ILE:O	2.11	0.51
44:EM:413:MET:HE2	44:EM:414:GLU:O	2.11	0.51
45:EN:314:SER:HA	45:EN:350:LYS:H	1.75	0.51
44:FC:189:LEU:O	44:FC:192:HIS:HB3	2.10	0.51
44:FC:238:LEU:CD2	44:FC:255:PHE:HE2	2.24	0.51
45:FD:65:LEU:O	45:FD:91:VAL:HG22	2.11	0.51
45:FF:36:TYR:CG	45:FF:44:LEU:HD11	2.45	0.51
44:FG:306:ASP:HB3	44:FG:309:HIS:ND1	2.26	0.51
44:FG:404:PHE:CE1	45:FH:259:PRO:HA	2.46	0.51
45:FJ:20:PHE:O	45:FJ:24:ILE:HG12	2.11	0.51
45:FJ:107:THR:HG23	45:FJ:108:GLU:N	2.26	0.51
44:FK:370:LYS:HG3	44:FK:370:LYS:O	2.11	0.51
45:FL:51:TYR:HE1	45:FL:61:PRO:HG3	1.76	0.51
45:FN:1:MET:O	45:FN:2:ARG:HG2	2.10	0.51
45:FN:148:GLY:O	45:FN:151:LEU:HB3	2.10	0.51
44:GA:346:TRP:CD1	45:GD:391:ARG:HG3	2.46	0.51
45:GB:4:ILE:CG2	45:GB:131:GLN:HB3	2.41	0.51
45:GB:170:VAL:HG23	45:GB:377:MET:CE	2.40	0.51
44:GC:331:SER:O	44:GC:334:THR:HB	2.11	0.51
44:GE:89:PRO:HG3	44:HE:280:LYS:HB2	1.93	0.51
44:GE:174:SER:HB3	44:GE:207:GLU:HB2	1.91	0.51
44:GG:88:HIS:ND1	44:GG:89:PRO:HD2	2.26	0.51
45:GH:221:THR:O	45:GH:225:LEU:HD23	2.10	0.51
44:GI:263:PRO:HB2	44:GI:264:ARG:NH1	2.25	0.51
44:GK:257:THR:O	45:GN:98:GLY:N	2.43	0.51
45:GL:114:ASP:O	45:GL:118:ASP:N	2.44	0.51
45:GL:418:LEU:HD12	45:GL:421:GLU:OE2	2.11	0.51
45:GN:204:ASN:HA	45:GN:207:LEU:CD1	2.40	0.51
45:GN:257:LEU:HD11	45:GN:314:SER:HB2	1.93	0.51
44:HA:278:ALA:N	44:HA:369:ALA:HB2	2.26	0.51
45:HB:190:HIS:HB2	45:HB:411:ALA:HB1	1.93	0.51
45:HD:11:GLN:HA	45:HD:14:ASN:OD1	2.11	0.51
44:HE:88:HIS:CD2	44:IE:283:HIS:HB3	2.46	0.51
44:HE:101:ASN:ND2	45:HF:252:LYS:HE2	2.26	0.51
44:HE:210:TYR:CD2	45:HF:324:LYS:HG3	2.45	0.51
44:HG:90:GLU:OE2	44:HG:121:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:18:ALA:O	45:HH:22:GLU:HG3	2.12	0.51
44:HK:105:ARG:NH1	45:HL:251:ARG:HD3	2.26	0.51
44:HK:288:VAL:CB	44:HK:327:ASP:HB3	2.41	0.51
45:HL:12:CYS:CB	45:HL:138:SER:HB2	2.41	0.51
45:HL:101:TRP:CD1	45:HL:146:GLY:HA3	2.45	0.51
44:HM:148:GLY:O	44:HM:152:LEU:HB2	2.11	0.51
44:HM:393:HIS:NE2	44:HM:397:LEU:HD11	2.26	0.51
45:HN:100:ASN:HD21	45:HN:103:LYS:CE	2.22	0.51
45:HN:196:ALA:HB3	45:HN:264:HIS:CE1	2.46	0.51
44:IA:54:SER:CB	44:IA:64:ARG:HH21	2.23	0.51
44:IA:210:TYR:OH	44:IA:227:LEU:HD11	2.11	0.51
44:IA:425:LEU:O	44:IA:428:LEU:HB3	2.11	0.51
44:IC:141:VAL:HG21	44:IC:187:SER:HA	1.93	0.51
44:IC:199:ASP:O	44:IC:266:HIS:HB2	2.11	0.51
44:IC:210:TYR:CE2	45:ID:324:LYS:HG3	2.46	0.51
45:IF:167:PHE:CD1	45:IF:200:MET:HB2	2.46	0.51
44:IG:23:LEU:HD21	44:IG:233:GLN:OE1	2.11	0.51
44:IG:257:THR:HG21	45:IJ:100:ASN:OD1	2.10	0.51
45:IH:178:THR:N	45:IH:181:GLU:OE2	2.44	0.51
45:IH:254:ALA:HA	45:IH:258:ILE:CD1	2.41	0.51
45:IH:326:VAL:O	45:IH:330:MET:HG2	2.11	0.51
44:II:247:ALA:HB1	45:IL:222:TYR:CE2	2.46	0.51
45:IJ:19:LYS:CA	45:IJ:22:GLU:HG2	2.40	0.51
45:IL:104:GLY:O	45:IL:147:MET:N	2.44	0.51
44:IM:33:ASP:O	44:IM:60:LYS:HE3	2.11	0.51
44:IM:287:SER:O	44:IM:290:GLU:HG2	2.11	0.51
44:JA:205:ASP:O	44:JA:209:ILE:HG13	2.10	0.51
45:JB:193:VAL:HA	45:JB:264:HIS:CD2	2.46	0.51
44:JC:248:LEU:HD21	45:JF:222:TYR:CE2	2.45	0.51
44:JC:439:THR:HG21	45:JF:390:ARG:HH22	1.76	0.51
45:JD:113:ILE:HD13	45:JD:150:LEU:HG	1.91	0.51
44:JE:362:VAL:HG23	44:JE:368:LEU:CB	2.41	0.51
44:JE:362:VAL:HG23	44:JE:368:LEU:HB3	1.93	0.51
44:JG:67:PHE:HB2	44:JG:92:LEU:CD2	2.41	0.51
45:JH:28:HIS:HA	45:JH:43:GLN:HE21	1.74	0.51
44:JI:14:ILE:CG2	44:JI:74:VAL:HG11	2.34	0.51
44:JI:420:GLU:O	44:JI:423:GLU:HB2	2.10	0.51
45:JJ:4:ILE:HD11	45:JJ:50:TYR:CE1	2.47	0.51
45:JJ:213:ARG:CZ	45:JJ:297:LYS:HB3	2.41	0.51
44:JK:237:SER:O	44:JK:320:ARG:NH2	2.44	0.51
45:JL:172:SER:OG	45:JL:173:PRO:HD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:341:PHE:HB3	45:JL:348:ASN:HD21	1.75	0.51
44:JM:213:CYS:SG	44:JM:217:LEU:HD12	2.51	0.51
44:JM:265:ILE:HD12	44:JM:432:TYR:CZ	2.46	0.51
45:KB:112:LEU:HD22	45:KB:147:MET:CE	2.41	0.51
45:KD:317:PHE:HE1	45:KD:326:VAL:HG22	1.75	0.51
45:KD:384:GLN:O	45:KD:387:ALA:HB3	2.12	0.51
45:KF:73:MET:O	45:KF:76:VAL:HG12	2.11	0.51
45:KF:116:VAL:CA	45:KF:119:VAL:HG12	2.41	0.51
44:KG:88:HIS:CD2	44:LG:283:HIS:HB3	2.46	0.51
45:KJ:230:SER:O	45:KJ:233:MET:HB2	2.10	0.51
44:KK:7:ILE:CD1	44:KK:66:VAL:HG12	2.41	0.51
44:KM:106:GLY:O	44:KM:149:LEU:HD22	2.11	0.51
44:KM:328:VAL:O	44:KM:332:ILE:HG12	2.11	0.51
45:KN:380:ARG:HG3	45:KN:381:VAL:N	2.26	0.51
44:LA:202:VAL:HA	44:LA:268:MET:O	2.11	0.51
44:LA:323:VAL:HG23	44:LA:355:ILE:HG23	1.93	0.51
44:LE:192:HIS:CE1	44:LE:420:GLU:HG3	2.46	0.51
45:LF:285:THR:HB	45:LF:287:PRO:HD2	1.92	0.51
44:LI:25:CYS:HA	44:LI:30:ILE:HD11	1.92	0.51
45:LJ:45:GLU:CD	45:LJ:46:ARG:HG2	2.31	0.51
44:LK:37:PRO:CD	44:LK:40:LYS:CE	2.88	0.51
45:LL:104:GLY:O	45:LL:147:MET:N	2.44	0.51
45:LL:166:THR:OG1	45:LL:199:CYS:HB2	2.11	0.51
44:LM:145:THR:HG22	46:LM:501:GTP:PG	2.51	0.51
44:LM:161:TYR:CD1	44:LM:164:LYS:HG3	2.46	0.51
44:LM:285:GLN:HG3	44:LM:287:SER:HB2	1.92	0.51
45:LN:2:ARG:CZ	45:LN:240:LEU:HG	2.40	0.51
44:MC:62:VAL:HG13	44:MC:62:VAL:O	2.11	0.51
44:MC:325:PRO:HG3	45:MF:222:TYR:CE2	2.46	0.51
44:ME:7:ILE:HD12	44:ME:122:ILE:HD11	1.93	0.51
45:MF:257:LEU:HA	45:MF:312:THR:HG21	1.93	0.51
45:MH:45:GLU:HG2	45:MH:46:ARG:NH2	2.26	0.51
44:MI:102:ASN:O	44:MI:105:ARG:N	2.42	0.51
45:MJ:101:TRP:CD1	45:MJ:105:HIS:HB2	2.46	0.51
45:MJ:162:ARG:HE	45:MJ:163:ILE:N	2.02	0.51
45:MJ:314:SER:CB	45:MJ:350:LYS:HB3	2.41	0.51
45:MJ:323:THR:O	45:MJ:326:VAL:HB	2.11	0.51
44:MK:315:CYS:O	44:MK:351:PHE:HA	2.10	0.51
45:MN:8:GLN:HE21	45:MN:14:ASN:HA	1.72	0.51
45:MN:116:VAL:O	45:MN:119:VAL:HG12	2.10	0.51
45:MN:317:PHE:N	45:MN:352:SER:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:112:LYS:N	44:NA:112:LYS:HD3	2.26	0.51
44:NA:119:LEU:HD11	44:NA:156:ARG:CG	2.41	0.51
44:NA:156:ARG:O	44:NA:159:VAL:HG12	2.10	0.51
44:NA:392:ASP:CG	44:NA:422:ARG:HH21	2.15	0.51
44:NC:11:GLN:CA	44:NC:14:ILE:HB	2.33	0.51
45:ND:102:ALA:HB1	45:ND:403:MET:SD	2.51	0.51
45:ND:208:TYR:CE1	45:ND:225:LEU:HD21	2.46	0.51
45:ND:255:VAL:HG12	45:ND:255:VAL:O	2.10	0.51
45:ND:329:GLN:O	45:ND:333:VAL:HG23	2.11	0.51
44:NE:55:GLU:OE1	44:NE:61:HIS:NE2	2.43	0.51
44:NG:69:ASP:OD1	44:NG:71:GLU:N	2.40	0.51
44:NG:98:ASP:OD1	44:NG:145:THR:HB	2.11	0.51
44:NG:175:PRO:HG3	44:NG:390:ARG:HH11	1.76	0.51
45:NH:134:GLN:C	45:NH:135:ILE:HD13	2.31	0.51
45:NH:143:THR:OG1	48:NH:501:GDP:O1B	2.26	0.51
44:NI:105:ARG:CD	44:NI:411:GLU:HG2	2.36	0.51
44:NI:251:ASP:O	44:NI:254:GLU:N	2.44	0.51
45:NJ:113:ILE:CD1	45:NJ:150:LEU:HD22	2.25	0.51
45:NJ:200:MET:CE	45:NJ:268:ILE:HG23	2.40	0.51
45:NJ:330:MET:HE1	45:NJ:349:ILE:HG21	1.93	0.51
44:NK:194:LEU:O	44:NK:198:THR:HG22	2.11	0.51
44:NK:297:GLU:CD	44:NK:299:ALA:H	2.14	0.51
44:NM:108:TYR:HA	44:NM:112:LYS:HZ2	1.76	0.51
44:OA:229:ARG:HH12	44:OA:363:VAL:CG1	2.24	0.51
45:OB:113:ILE:HG12	45:OB:117:LEU:HD23	1.92	0.51
44:OC:2:ARG:HD3	44:OC:242:LEU:CD2	2.40	0.51
44:OC:14:ILE:HD11	44:OC:75:ILE:HD11	1.93	0.51
44:OC:71:GLU:OE2	44:OC:72:PRO:HD2	2.11	0.51
44:OC:254:GLU:N	44:OC:254:GLU:OE1	2.43	0.51
44:OC:260:VAL:HG13	44:OC:265:ILE:O	2.11	0.51
45:OD:118:ASP:HA	45:OD:121:ARG:HG2	1.91	0.51
45:OD:202:ILE:HG23	45:OD:300:MET:HG3	1.92	0.51
44:OE:88:HIS:CE1	44:OE:89:PRO:HD2	2.45	0.51
44:OE:88:HIS:ND1	44:OE:89:PRO:HD2	2.26	0.51
44:OE:89:PRO:HD3	44:PE:280:LYS:HD2	1.93	0.51
44:OE:122:ILE:HG22	44:OE:161:TYR:OH	2.10	0.51
44:OE:156:ARG:O	44:OE:159:VAL:HG12	2.11	0.51
44:OG:287:SER:O	44:OG:291:ILE:HG12	2.10	0.51
45:OH:53:GLU:O	45:PH:283:ALA:HB2	2.10	0.51
45:OH:113:ILE:HD11	45:OH:151:LEU:HD13	1.92	0.51
45:OH:156:ARG:O	45:OH:156:ARG:HD3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:208:TYR:CE1	45:OH:225:LEU:HD21	2.46	0.51
45:OH:214:THR:HG23	45:OH:215:LEU:N	2.26	0.51
44:OI:69:ASP:OD2	44:OI:74:VAL:HG21	2.11	0.51
45:OJ:165:GLU:HA	45:OJ:198:GLU:HB2	1.93	0.51
45:OJ:287:PRO:O	45:OJ:290:THR:HG22	2.11	0.51
45:OJ:311:LEU:HA	45:OJ:342:VAL:HG12	1.93	0.51
44:OK:105:ARG:O	44:OK:110:ILE:HG12	2.11	0.51
45:OL:101:TRP:NE1	45:OL:146:GLY:HA2	2.23	0.51
45:OL:210:ILE:HD11	45:OL:298:ASN:O	2.09	0.51
44:OM:429:GLU:HA	44:OM:432:TYR:CD2	2.36	0.51
45:ON:134:GLN:O	45:ON:135:ILE:HD13	2.11	0.51
45:PB:217:LEU:HD12	45:PB:217:LEU:O	2.11	0.51
45:PB:317:PHE:CD1	45:PB:365:VAL:HG22	2.45	0.51
44:PC:50:ASN:HA	44:PC:53:PHE:O	2.11	0.51
44:PC:310:GLY:N	44:PC:383:ALA:HB2	2.26	0.51
44:PC:344:VAL:HG22	44:PC:345:ASP:H	1.76	0.51
45:PD:5:VAL:CA	45:PD:130:LEU:CD2	2.87	0.51
45:PD:251:ARG:O	45:PD:254:ALA:HB3	2.11	0.51
44:PE:439:THR:HB	45:PH:391:ARG:HH11	1.76	0.51
44:PG:98:ASP:OD1	44:PG:99:ALA:N	2.44	0.51
44:PG:103:PHE:CE2	44:PG:189:LEU:HD13	2.46	0.51
44:PG:254:GLU:OE2	45:PJ:99:ASN:N	2.43	0.51
45:PH:251:ARG:C	45:PH:255:VAL:HG23	2.31	0.51
45:PH:388:MET:HG2	45:PH:393:ALA:HB3	1.91	0.51
44:PI:141:VAL:O	44:PI:141:VAL:HG22	2.11	0.51
44:PI:205:ASP:CG	44:PI:303:ALA:HA	2.32	0.51
44:PK:50:ASN:OD1	44:PK:51:THR:N	2.43	0.51
44:PK:103:PHE:HB2	44:PK:186:ASN:HA	1.92	0.51
44:PK:183:GLU:HG2	44:PK:184:PRO:CD	2.40	0.51
45:PL:6:HIS:HB2	45:PL:134:GLN:CD	2.31	0.51
45:PN:55:THR:CG2	45:QL:283:ALA:HA	2.19	0.51
45:PN:403:MET:HE1	45:PN:407:GLU:HB2	1.92	0.51
44:QA:326:LYS:HB3	45:QB:208:TYR:CE1	2.46	0.51
44:QA:381:SER:OG	44:QA:384:ILE:HB	2.11	0.51
45:QB:169:VAL:HG12	45:QB:202:ILE:HB	1.92	0.51
45:QB:374:ILE:HG13	45:QB:374:ILE:O	2.10	0.51
44:QC:286:LEU:CB	44:QC:373:ARG:HH21	2.24	0.51
44:QC:287:SER:N	44:QC:290:GLU:HG2	2.26	0.51
45:QD:19:LYS:O	45:QD:22:GLU:HB2	2.11	0.51
45:QD:101:TRP:NE1	45:QD:145:SER:O	2.38	0.51
45:QD:186:THR:O	45:QD:189:VAL:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:390:ARG:HG3	45:QD:391:ARG:N	2.26	0.51
44:QE:141:VAL:HG22	44:QE:187:SER:OG	2.11	0.51
44:QE:258:ASN:ND2	44:QE:352:LYS:HB2	2.25	0.51
44:QE:326:LYS:HG2	45:QF:220:PRO:CG	2.40	0.51
44:QE:423:GLU:O	44:QE:427:ALA:N	2.35	0.51
45:QF:321:MET:HE1	45:QF:353:ILE:HG23	1.93	0.51
44:QG:30:ILE:HG23	44:QG:35:GLN:O	2.11	0.51
44:QG:71:GLU:CD	44:QG:73:THR:H	2.12	0.51
44:QG:133:GLN:O	44:QG:164:LYS:NZ	2.30	0.51
44:QI:132:LEU:HD21	44:QI:164:LYS:HD2	1.92	0.51
44:QK:175:PRO:HD2	44:QK:207:GLU:OE1	2.11	0.51
45:QL:113:ILE:HD13	45:QL:150:LEU:HG	1.92	0.51
45:QN:212:PHE:O	45:QN:216:LYS:HA	2.11	0.51
44:RA:66:VAL:HG11	44:RA:122:ILE:HD11	1.92	0.51
44:RA:177:VAL:O	44:RA:177:VAL:HG13	2.11	0.51
44:RA:213:CYS:O	44:RA:217:LEU:N	2.44	0.51
44:RC:167:LEU:HG	44:RC:200:VAL:HB	1.92	0.51
45:RD:293:MET:HE3	45:RD:367:PHE:HA	1.93	0.51
45:RD:372:THR:HA	45:RD:422:TYR:CE2	2.30	0.51
44:RE:172:TYR:HB2	44:RE:203:MET:SD	2.51	0.51
45:RF:1:MET:HE1	44:RG:96:LYS:HD3	1.93	0.51
45:RF:7:ILE:HB	45:RF:135:ILE:HD11	1.92	0.51
45:RF:240:LEU:HD12	45:RF:249:ASP:HA	1.93	0.51
44:RG:141:VAL:CG1	44:RG:172:TYR:HA	2.41	0.51
45:RH:390:ARG:HD3	45:RH:390:ARG:O	2.11	0.51
44:RI:288:VAL:O	44:RI:291:ILE:HG12	2.11	0.51
45:RJ:49:VAL:HG11	45:RJ:241:ARG:HG2	1.92	0.51
45:RJ:246:LEU:O	45:RJ:352:SER:HB2	2.11	0.51
44:RK:13:GLY:HA2	44:RK:16:VAL:CG1	2.41	0.51
44:RK:247:ALA:HB2	44:RK:357:TYR:OH	2.11	0.51
44:RM:33:ASP:HB3	44:RM:35:GLN:NE2	2.26	0.51
44:RM:317:MET:HG2	44:RM:376:CYS:O	2.11	0.51
45:SD:150:LEU:HD21	45:SD:154:LYS:HE2	1.93	0.51
45:SD:267:MET:O	45:SD:267:MET:HG3	2.09	0.51
45:SF:270:PHE:HD2	45:SF:273:LEU:HD21	1.76	0.51
44:SG:233:GLN:HG3	44:SG:272:TYR:CZ	2.46	0.51
45:SH:30:ILE:HD12	45:SH:59:TYR:CE1	2.45	0.51
45:SH:73:MET:HG3	45:SH:74:ASP:N	2.25	0.51
45:SH:192:LEU:CD1	45:SH:196:ALA:HB2	2.41	0.51
44:SI:174:SER:CB	44:SI:207:GLU:HB2	2.41	0.51
44:SI:268:MET:CB	44:SI:380:ASN:HA	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:11:GLN:HA	44:SK:14:ILE:CD1	2.38	0.51
44:SK:118:CYS:O	44:SK:121:ARG:N	2.43	0.51
44:SK:419:SER:O	44:SK:422:ARG:N	2.44	0.51
45:SL:66:MET:HE2	45:SL:147:MET:SD	2.51	0.51
45:SL:66:MET:HA	45:SL:73:MET:HE1	1.92	0.51
45:SL:327:ASP:O	45:SL:330:MET:N	2.44	0.51
45:SL:379:LYS:HE2	45:SL:379:LYS:HA	1.92	0.51
44:SM:34:GLY:O	44:SM:60:LYS:HA	2.10	0.51
44:SM:234:VAL:O	44:SM:238:LEU:HB2	2.11	0.51
44:SM:251:ASP:HB2	44:SM:254:GLU:HG3	1.93	0.51
44:SM:287:SER:O	44:SM:290:GLU:HG2	2.10	0.51
44:TA:312:TYR:CE1	44:TA:341:ILE:HG23	2.45	0.51
44:TA:319:TYR:N	44:TA:354:GLY:O	2.36	0.51
45:TB:42:LEU:CA	45:TB:45:GLU:HG3	2.29	0.51
45:TB:45:GLU:O	45:TB:46:ARG:HD3	2.11	0.51
45:TB:297:LYS:H	45:TB:297:LYS:HD2	1.76	0.51
45:TD:20:PHE:CZ	45:TD:24:ILE:HG13	2.46	0.51
45:TD:202:ILE:CD1	45:TD:268:ILE:HD11	2.40	0.51
45:TD:420:SER:CA	45:TD:423:GLN:HG3	2.41	0.51
44:TE:141:VAL:HG11	44:TE:172:TYR:HA	1.92	0.51
44:TE:236:SER:HA	44:TE:239:THR:OG1	2.11	0.51
44:TE:315:CYS:HA	44:TE:379:SER:CB	2.40	0.51
45:TF:42:LEU:HA	45:TF:45:GLU:HG3	1.92	0.51
45:TF:222:TYR:O	45:TF:226:ASN:HB2	2.11	0.51
44:TG:91:GLN:O	44:TG:93:ILE:HD12	2.11	0.51
44:TG:258:ASN:HB3	45:TH:179:VAL:HG22	1.92	0.51
44:TG:348:PRO:HD3	45:TH:388:MET:HE3	1.92	0.51
45:TH:323:THR:O	45:TH:326:VAL:HB	2.11	0.51
44:TI:169:PHE:CD1	44:TI:202:VAL:HG21	2.46	0.51
45:TJ:183:TYR:CE2	45:TJ:394:PHE:HB2	2.45	0.51
45:TJ:202:ILE:HG23	45:TJ:300:MET:CE	2.37	0.51
44:TK:14:ILE:HD13	44:TK:75:ILE:HD11	1.92	0.51
44:TK:291:ILE:O	44:TK:294:SER:N	2.44	0.51
44:TK:298:PRO:HG3	44:TK:308:ARG:HG3	1.91	0.51
45:TL:374:ILE:HB	45:TL:377:MET:CE	2.41	0.51
45:TN:164:MET:HG2	45:TN:197:ASP:CG	2.31	0.51
45:TN:375:GLN:OE1	45:TN:423:GLN:HG2	2.11	0.51
45:UB:16:ILE:HD13	45:UB:226:ASN:HA	1.93	0.51
45:UB:290:THR:HG21	45:UB:333:VAL:CG2	2.41	0.51
44:UC:7:ILE:HD12	44:UC:66:VAL:CG1	2.41	0.51
44:UC:142:GLY:HA2	44:UC:186:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:224:TYR:CD1	44:UC:227:LEU:HD12	2.42	0.51
44:UC:258:ASN:HB3	45:UD:179:VAL:CG2	2.41	0.51
45:UD:131:GLN:O	45:UD:163:ILE:HG12	2.11	0.51
45:UD:248:SER:CB	45:UD:252:LYS:HD2	2.41	0.51
44:UE:8:HIS:CD2	44:UE:17:GLY:HA3	2.45	0.51
45:UF:252:LYS:CG	44:UG:101:ASN:HD21	2.18	0.51
44:UG:66:VAL:O	44:UG:66:VAL:HG13	2.11	0.51
44:UG:352:LYS:CB	45:UH:178:THR:HA	2.41	0.51
44:UG:372:MET:C	44:UG:373:ARG:HD3	2.31	0.51
45:UH:135:ILE:HG22	45:UH:137:HIS:ND1	2.26	0.51
45:UH:167:PHE:CE2	45:UH:233:MET:HG2	2.46	0.51
45:UJ:284:LEU:HB3	45:UJ:363:MET:HE2	1.93	0.51
45:UJ:323:THR:O	45:UJ:326:VAL:N	2.44	0.51
44:UK:159:VAL:O	44:UK:159:VAL:HG22	2.10	0.51
44:UK:346:TRP:CD1	45:UL:391:ARG:HG3	2.46	0.51
44:UK:350:GLY:HA2	45:UL:179:VAL:CG1	2.39	0.51
44:UM:132:LEU:HD11	44:UM:135:PHE:CZ	2.46	0.51
44:VA:7:ILE:HD12	44:VA:66:VAL:HG11	1.92	0.51
44:VA:74:VAL:HG23	44:VA:75:ILE:HG12	1.91	0.51
44:VC:118:CYS:HB3	44:VC:120:ASP:N	2.26	0.51
44:VC:269:LEU:CD1	44:VC:303:ALA:HB3	2.41	0.51
44:VE:88:HIS:CG	44:VE:91:GLN:HG3	2.45	0.51
44:VE:91:GLN:CG	44:VE:121:ARG:HH21	2.24	0.51
45:VF:147:MET:O	45:VF:151:LEU:HB2	2.11	0.51
44:VG:38:SER:O	44:VG:42:ILE:HG13	2.11	0.51
45:VH:323:THR:O	45:VH:326:VAL:HB	2.11	0.51
45:VJ:65:LEU:HB2	45:VJ:90:PHE:CE1	2.45	0.51
45:VJ:167:PHE:CE2	45:VJ:200:MET:HG3	2.46	0.51
45:VJ:221:THR:HG23	45:VJ:224:ASP:N	2.23	0.51
45:VJ:338:SER:HA	45:VJ:341:PHE:CE2	2.46	0.51
44:VK:21:TRP:CZ2	44:VK:65:ALA:HB2	2.46	0.51
44:VK:79:ARG:O	44:VK:84:ARG:HB2	2.11	0.51
44:VM:10:GLY:HA2	46:VM:501:GTP:O1B	2.11	0.51
44:VM:223:THR:O	44:VM:227:LEU:HG	2.11	0.51
45:VN:372:THR:HB	45:VN:426:GLN:OE1	2.10	0.51
44:WA:70:LEU:HD13	44:WA:110:ILE:HD11	1.93	0.51
44:WA:105:ARG:O	44:WA:110:ILE:HG12	2.11	0.51
44:WA:183:GLU:N	44:WA:184:PRO:HD2	2.26	0.51
44:WA:377:MET:O	44:WA:378:ILE:HD13	2.11	0.51
45:WB:35:THR:O	45:WB:35:THR:HG23	2.11	0.51
45:WB:334:GLN:HB2	45:WB:349:ILE:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:331:SER:O	44:WC:335:ILE:HG12	2.11	0.51
45:WD:44:LEU:HD23	45:WD:47:ILE:CD1	2.41	0.51
44:WE:296:PHE:CE2	44:WE:335:ILE:HG21	2.44	0.51
45:WF:100:ASN:HB3	45:WF:103:LYS:HB3	1.93	0.51
45:WH:359:LYS:O	45:WH:359:LYS:HD2	2.11	0.51
45:WJ:8:GLN:OE1	45:WJ:17:GLY:HA3	2.11	0.51
45:WJ:31:ASP:HB3	45:WJ:32:PRO:HD2	1.93	0.51
45:WJ:151:LEU:HD21	45:WJ:155:VAL:HG11	1.92	0.51
45:WJ:372:THR:O	45:WJ:375:GLN:HG2	2.11	0.51
44:WK:37:PRO:HB2	44:WK:40:LYS:CB	2.37	0.51
44:WM:2:ARG:HA	44:WM:131:GLY:O	2.11	0.51
44:WM:118:CYS:O	44:WM:122:ILE:HG12	2.11	0.51
44:WM:260:VAL:CG1	44:WM:263:PRO:HA	2.41	0.51
44:WM:268:MET:HG3	44:WM:378:ILE:CG2	2.38	0.51
44:WM:276:ILE:O	44:WM:369:ALA:HB3	2.11	0.51
45:WN:231:ALA:HB1	45:WN:270:PHE:CZ	2.46	0.51
1:6H:170:TYR:CE2	45:FB:320:ARG:NH2	2.78	0.50
2:0A:53:HIS:H	44:MA:84:ARG:HH12	1.59	0.50
3:0B:71:ILE:HG21	45:JH:361:LEU:HD11	1.92	0.50
4:0C:48:ARG:HH21	45:EH:287:PRO:HG2	1.74	0.50
5:0D:94:ASN:OD1	44:EC:26:LEU:HD22	2.10	0.50
7:0F:194:PHE:CE1	45:ED:53:GLU:HB2	2.46	0.50
8:1G:142:LYS:HE2	44:JA:84:ARG:HD2	1.89	0.50
19:1I:23:ILE:HD12	45:ID:48:ASN:CG	2.31	0.50
20:1J:201:LYS:HD3	44:IG:285:GLN:HB2	1.93	0.50
20:1J:261:MET:HG3	44:II:282:TYR:CZ	2.46	0.50
26:1R:458:ILE:HD11	45:FD:276:ARG:CB	2.41	0.50
31:2H:200:TYR:CZ	44:AC:78:VAL:HG22	2.46	0.50
24:2O:242:LEU:HD12	45:VJ:276:ARG:CZ	2.41	0.50
27:2W:266:LEU:HD21	44:LK:370:LYS:O	2.11	0.50
28:3C:67:LYS:HZ1	44:LA:81:GLY:HA2	1.75	0.50
32:3I:199:VAL:HG13	44:GK:337:THR:HG22	1.93	0.50
26:3R:72:HIS:HE1	44:MK:77:GLU:HB3	1.73	0.50
26:3R:233:LYS:HE3	45:BN:74:ASP:OD2	2.11	0.50
26:3R:299:LEU:HA	45:CL:78:ALA:HB1	1.93	0.50
26:3R:310:LEU:HD21	45:CL:227:HIS:HE1	1.76	0.50
31:4H:196:SER:O	45:AL:42:LEU:HD13	2.11	0.50
35:4R:390:GLY:H	45:EF:276:ARG:NH1	2.09	0.50
37:5D:32:ALA:HB1	44:KK:434:GLU:OE1	2.09	0.50
39:5K:30:LYS:HB3	39:5K:34:LYS:HZ1	1.76	0.50
35:5R:478:ASN:HB3	35:5R:481:ASN:HD21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6F:93:LYS:O	40:6F:97:GLN:HB3	2.11	0.50
35:6R:521:GLU:O	35:6R:524:LYS:NZ	2.44	0.50
35:7R:206:ASN:HB2	35:7R:210:GLU:CD	2.32	0.50
35:7R:311:LYS:HG2	35:7R:327:GLU:CB	2.41	0.50
35:7R:578:TYR:CE2	35:7R:580:LEU:HG	2.46	0.50
44:AA:99:ALA:HB2	44:AA:145:THR:HB	1.92	0.50
45:AB:325:GLU:HA	45:AB:328:GLU:OE2	2.11	0.50
44:AC:8:HIS:CD2	44:AC:17:GLY:HA3	2.46	0.50
44:AC:395:PHE:CE1	44:AC:422:ARG:HD3	2.46	0.50
45:AF:20:PHE:O	45:AF:24:ILE:HG12	2.10	0.50
45:AF:52:ASN:HB2	45:AF:62:ARG:NH2	2.26	0.50
45:AF:130:LEU:HD22	45:AF:162:ARG:HG3	1.93	0.50
44:AG:292:THR:O	44:AG:295:ALA:HB3	2.11	0.50
44:AM:101:ASN:HD21	45:AN:252:LYS:CE	2.12	0.50
44:AM:224:TYR:O	44:AM:227:LEU:N	2.44	0.50
44:AM:275:ILE:HG12	44:AM:368:LEU:HD11	1.92	0.50
44:BA:229:ARG:HB2	44:BA:229:ARG:CZ	2.41	0.50
44:BA:284:GLU:HG3	44:BA:286:LEU:HD23	1.94	0.50
44:BC:221:ARG:HD2	45:BD:322:SER:OG	2.11	0.50
44:BC:320:ARG:NH2	44:BC:360:PRO:HA	2.27	0.50
44:BC:415:GLU:OE1	44:BC:415:GLU:HA	2.11	0.50
45:BD:4:ILE:HD12	45:BD:134:GLN:NE2	2.26	0.50
44:BG:181:VAL:HG12	45:BH:256:ASN:OD1	2.12	0.50
44:BG:437:ILE:HG13	44:BG:437:ILE:O	2.10	0.50
45:BH:324:LYS:O	45:BH:328:GLU:HG2	2.10	0.50
44:BI:89:PRO:HG3	44:CI:280:LYS:HA	1.93	0.50
45:BL:215:LEU:HD21	45:BL:273:LEU:HD12	1.93	0.50
44:BM:151:SER:HB2	44:BM:193:SER:CB	2.41	0.50
45:BN:242:PHE:HD1	45:BN:356:ILE:CB	2.24	0.50
45:BN:258:ILE:O	45:BN:258:ILE:HG23	2.11	0.50
45:BN:287:PRO:HD3	45:BN:325:GLU:OE2	2.11	0.50
45:BN:316:LEU:O	45:BN:365:VAL:HG23	2.12	0.50
44:CA:287:SER:O	44:CA:290:GLU:HG2	2.11	0.50
45:CB:227:HIS:O	45:CB:230:SER:HB3	2.11	0.50
45:CB:237:THR:HB	45:CB:250:LEU:CD2	2.36	0.50
45:CB:317:PHE:N	45:CB:352:SER:O	2.44	0.50
45:CB:406:MET:O	45:CB:410:GLU:HG3	2.11	0.50
44:CC:258:ASN:ND2	44:CC:352:LYS:HB2	2.26	0.50
44:CE:257:THR:HA	45:CF:397:TRP:CZ2	2.46	0.50
44:CE:296:PHE:HZ	44:CE:315:CYS:HG	1.59	0.50
45:CF:261:PRO:HD3	44:CG:406:HIS:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:19:ALA:HA	44:CG:22:GLU:OE1	2.10	0.50
44:CG:99:ALA:HB2	44:CG:145:THR:HB	1.93	0.50
45:CH:23:VAL:HG11	45:CH:230:SER:CB	2.38	0.50
44:CI:284:GLU:OE1	44:CI:286:LEU:N	2.35	0.50
45:CJ:92:PHE:O	45:CJ:112:LEU:HD11	2.11	0.50
45:CL:21:TRP:CZ2	45:CL:61:PRO:HB3	2.46	0.50
45:CL:68:LEU:HD11	45:CL:147:MET:HE1	1.92	0.50
45:CL:200:MET:HB2	45:CL:268:ILE:CG2	2.42	0.50
45:CN:7:ILE:HG12	45:CN:64:ILE:HB	1.91	0.50
44:DA:143:GLY:HA3	46:DA:501:GTP:PB	2.51	0.50
45:DB:6:HIS:HE1	45:DB:136:THR:CG2	2.23	0.50
45:DB:256:ASN:C	45:DB:257:LEU:HD12	2.31	0.50
45:DB:295:ASP:CG	45:DB:297:LYS:HG2	2.30	0.50
45:DD:4:ILE:CG2	45:DD:131:GLN:HB3	2.41	0.50
45:DD:103:LYS:N	45:DD:401:GLU:OE1	2.44	0.50
45:DD:109:GLY:HA2	45:DD:147:MET:CE	2.41	0.50
45:DD:206:ALA:O	45:DD:210:ILE:HG13	2.11	0.50
45:DD:237:THR:HG23	45:DD:241:ARG:HH21	1.75	0.50
45:DD:242:PHE:HD2	45:DD:356:ILE:HB	1.73	0.50
45:DD:256:ASN:ND2	45:DD:350:LYS:HE3	2.26	0.50
44:DE:133:GLN:OE1	44:DE:133:GLN:HA	2.11	0.50
44:DE:141:VAL:HG22	44:DE:187:SER:OG	2.12	0.50
44:DI:4:VAL:HG11	44:DI:52:PHE:HE1	1.76	0.50
45:DJ:21:TRP:CZ2	45:DJ:63:ALA:HB2	2.45	0.50
45:DL:8:GLN:OE1	45:DL:17:GLY:HA3	2.10	0.50
45:DL:11:GLN:HA	45:DL:14:ASN:HB2	1.92	0.50
45:DL:329:GLN:O	45:DL:333:VAL:HG23	2.10	0.50
45:DL:388:MET:CG	45:DL:393:ALA:HB3	2.40	0.50
45:DN:146:GLY:CA	45:DN:149:THR:HG22	2.42	0.50
45:DN:383:GLU:O	45:DN:386:THR:HG22	2.11	0.50
45:DN:386:THR:HG23	45:DN:387:ALA:N	2.26	0.50
44:EA:241:SER:CB	44:EA:250:VAL:H	2.23	0.50
44:EA:328:VAL:HG11	44:EA:353:VAL:HG23	1.93	0.50
45:EB:168:SER:O	45:EB:201:VAL:HA	2.12	0.50
45:EB:304:ASP:OD1	45:EB:306:ARG:HG2	2.11	0.50
44:EC:105:ARG:HB3	44:EC:110:ILE:HD11	1.93	0.50
44:EC:242:LEU:HD21	44:EC:251:ASP:CA	2.34	0.50
44:EC:329:ASN:OD1	45:ED:175:VAL:HG12	2.11	0.50
44:EE:287:SER:H	44:EE:290:GLU:HG3	1.75	0.50
44:EE:387:VAL:O	44:EE:390:ARG:HG2	2.11	0.50
45:EF:102:ALA:HA	45:EF:403:MET:HE3	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:88:HIS:ND1	44:EG:89:PRO:HD2	2.25	0.50
44:EI:23:LEU:CD2	44:EI:236:SER:HB3	2.40	0.50
44:EI:319:TYR:N	44:EI:354:GLY:O	2.39	0.50
44:EK:199:ASP:O	44:EK:266:HIS:HB2	2.10	0.50
45:EL:257:LEU:HD12	45:EL:312:THR:CG2	2.41	0.50
44:EM:99:ALA:HB3	46:EM:501:GTP:O2G	2.11	0.50
44:EM:246:GLY:HA3	44:EM:356:ASN:HA	1.93	0.50
44:EM:326:LYS:CE	45:EN:220:PRO:HD2	2.38	0.50
45:EN:222:TYR:CD1	45:EN:225:LEU:HD12	2.46	0.50
45:FB:272:PRO:HG2	45:FB:361:LEU:HD11	1.92	0.50
45:FB:377:MET:CE	45:FB:381:VAL:HG23	2.40	0.50
44:FC:22:GLU:HG3	44:FC:83:TYR:OH	2.11	0.50
45:FD:156:ARG:NH1	45:FD:197:ASP:OD2	2.43	0.50
45:FD:330:MET:SD	45:FD:349:ILE:HG21	2.51	0.50
44:FE:207:GLU:O	44:FE:210:TYR:HB2	2.12	0.50
45:FF:309:ARG:NE	45:FF:342:VAL:HG22	2.25	0.50
45:FJ:209:ASP:OD1	45:FJ:213:ARG:HD3	2.10	0.50
44:FK:225:THR:HA	44:FK:228:ASN:HD22	1.72	0.50
44:FK:270:SER:HB2	44:FK:378:ILE:HG13	1.93	0.50
44:FM:9:VAL:CG1	44:FM:139:ASN:HB3	2.40	0.50
45:FN:44:LEU:HA	45:FN:47:ILE:HB	1.93	0.50
44:GA:242:LEU:CD2	44:GA:252:ILE:HG13	2.40	0.50
44:GA:319:TYR:CE1	44:GA:328:VAL:HG21	2.45	0.50
44:GA:352:LYS:NZ	45:GD:178:THR:HA	2.26	0.50
45:GB:310:TYR:CE1	45:GB:371:SER:HB2	2.47	0.50
45:GB:380:ARG:HG3	45:GB:381:VAL:N	2.26	0.50
44:GC:11:GLN:NE2	45:GD:245:GLN:O	2.44	0.50
44:GC:100:ALA:HB1	45:GD:252:LYS:HA	1.93	0.50
44:GE:51:THR:O	44:GE:52:PHE:HD2	1.94	0.50
45:GF:5:VAL:HG12	45:GF:133:PHE:CD1	2.47	0.50
45:GF:387:ALA:O	45:GF:390:ARG:HG2	2.10	0.50
45:GH:207:LEU:O	45:GH:210:ILE:N	2.44	0.50
45:GH:311:LEU:HD22	45:GH:342:VAL:HG11	1.93	0.50
44:GI:20:CYS:HB2	44:GI:24:PHE:CE2	2.46	0.50
44:GK:438:GLU:HA	45:GN:391:ARG:HH12	1.76	0.50
44:GK:439:THR:HB	45:GN:391:ARG:CD	2.40	0.50
45:GL:54:ALA:HB2	45:HL:283:ALA:HB2	1.93	0.50
44:GM:232:ALA:HA	44:GM:235:ILE:CD1	2.40	0.50
45:GN:221:THR:HG23	45:GN:224:ASP:N	2.24	0.50
45:GN:230:SER:HA	45:GN:233:MET:CE	2.41	0.50
44:HA:2:ARG:H	44:HA:2:ARG:HD3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:54:SER:HB3	44:HA:64:ARG:CZ	2.40	0.50
44:HA:222:PRO:HG3	45:HB:324:LYS:HD3	1.94	0.50
45:HB:174:LYS:HB2	45:HB:205:GLU:CD	2.30	0.50
45:HB:272:PRO:CD	45:HB:364:ALA:HA	2.38	0.50
44:HE:241:SER:HA	44:HE:356:ASN:ND2	2.25	0.50
44:HE:258:ASN:CG	45:HH:179:VAL:HG22	2.31	0.50
44:HG:87:PHE:HB3	44:HG:92:LEU:HD11	1.93	0.50
44:HG:311:LYS:HB2	44:HG:382:THR:CG2	2.38	0.50
45:HH:248:SER:OG	45:HH:252:LYS:HD2	2.11	0.50
45:HJ:379:LYS:O	45:HJ:382:ALA:HB3	2.12	0.50
44:HM:183:GLU:N	44:HM:184:PRO:HD2	2.26	0.50
44:HM:203:MET:HE2	44:HM:203:MET:CA	2.40	0.50
44:HM:234:VAL:HG22	44:HM:376:CYS:SG	2.50	0.50
45:HN:202:ILE:HG21	45:HN:207:LEU:HD21	1.93	0.50
44:IA:210:TYR:CE2	44:IA:227:LEU:HD21	2.45	0.50
44:IA:315:CYS:HA	44:IA:379:SER:HB2	1.93	0.50
44:IC:262:TYR:HB2	44:IC:265:ILE:HD13	1.93	0.50
44:IC:325:PRO:O	44:IC:329:ASN:N	2.27	0.50
45:ID:390:ARG:HG3	45:ID:391:ARG:HG2	1.91	0.50
45:IF:7:ILE:HG22	45:IF:64:ILE:CB	2.28	0.50
45:IF:68:LEU:HD23	45:IF:97:ALA:N	2.25	0.50
45:IF:237:THR:HG23	45:IF:241:ARG:NH1	2.26	0.50
45:IF:282:ARG:HG2	45:IF:283:ALA:H	1.75	0.50
44:IG:8:HIS:CD2	44:IG:17:GLY:HA3	2.46	0.50
44:II:20:CYS:HA	44:II:232:ALA:CB	2.41	0.50
45:IJ:20:PHE:CZ	45:IJ:24:ILE:HG13	2.46	0.50
45:IJ:105:HIS:O	45:IJ:150:LEU:HD12	2.11	0.50
45:IJ:294:PHE:HZ	45:IJ:330:MET:HE1	1.76	0.50
45:IL:114:ASP:OD1	45:IL:115:SER:N	2.41	0.50
44:JA:66:VAL:HG11	44:JA:122:ILE:HD13	1.92	0.50
45:JB:7:ILE:HB	45:JB:135:ILE:CD1	2.40	0.50
44:JC:5:ILE:HD12	44:JC:132:LEU:CD2	2.42	0.50
45:JD:283:ALA:HB3	45:JD:288:GLU:OE2	2.10	0.50
44:JE:257:THR:HG22	45:JH:397:TRP:CD1	2.46	0.50
45:JF:47:ILE:HD13	45:JF:59:TYR:CE1	2.39	0.50
45:JF:211:CYS:O	45:JF:217:LEU:HD23	2.11	0.50
44:JG:32:PRO:HB3	44:JG:83:TYR:HD1	1.76	0.50
44:JG:319:TYR:HB3	44:JG:323:VAL:HG11	1.93	0.50
45:JH:256:ASN:ND2	45:JH:350:LYS:HD2	2.26	0.50
45:JL:20:PHE:CE2	45:JL:233:MET:HE1	2.46	0.50
44:JM:7:ILE:HD13	44:JM:66:VAL:HG12	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:311:LEU:CD1	45:JN:372:THR:HG23	2.40	0.50
44:KA:28:HIS:CD2	44:KA:243:ARG:HH21	2.29	0.50
44:KA:421:ALA:O	44:KA:425:LEU:HD23	2.10	0.50
44:KC:88:HIS:HE2	44:LC:284:GLU:HG3	1.76	0.50
44:KC:403:ALA:HB2	45:KD:344:TRP:CZ3	2.46	0.50
45:KD:253:LEU:HD21	45:KD:316:LEU:HD11	1.92	0.50
45:KF:3:GLU:CB	45:KF:62:ARG:HH12	2.24	0.50
45:KH:285:THR:HG22	45:KH:288:GLU:CG	2.41	0.50
44:KI:103:PHE:HD1	44:KI:147:SER:OG	1.95	0.50
44:KI:145:THR:HG22	46:KJ:501:GTP:O3B	2.11	0.50
44:KI:195:LEU:HD12	44:KI:266:HIS:NE2	2.26	0.50
44:KI:209:ILE:HA	44:KI:212:ILE:CG2	2.37	0.50
45:KJ:169:VAL:O	45:KJ:169:VAL:HG23	2.10	0.50
44:KM:224:TYR:HD1	44:KM:227:LEU:HD12	1.76	0.50
45:KN:130:LEU:HD21	45:KN:133:PHE:CZ	2.46	0.50
45:KN:171:PRO:HG3	45:KN:181:GLU:HG2	1.92	0.50
45:KN:272:PRO:HA	45:KN:292:GLN:CD	2.31	0.50
44:LA:437:ILE:HG13	44:LA:437:ILE:O	2.10	0.50
45:LB:279:GLN:HG3	45:LB:280:GLN:H	1.76	0.50
45:LB:342:VAL:HG22	45:LB:343:GLU:N	2.26	0.50
44:LC:50:ASN:HA	44:LC:53:PHE:O	2.10	0.50
45:LD:193:VAL:HA	45:LD:264:HIS:NE2	2.26	0.50
45:LD:267:MET:CE	45:LD:301:CYS:HB2	2.41	0.50
44:LE:9:VAL:CG1	44:LE:139:ASN:HB3	2.40	0.50
45:LF:192:LEU:HD21	45:LF:199:CYS:SG	2.51	0.50
45:LH:143:THR:HG23	48:LH:501:GDP:O1B	2.11	0.50
44:LI:75:ILE:HG21	44:LI:94:SER:OG	2.11	0.50
44:LI:377:MET:O	44:LI:378:ILE:HD13	2.10	0.50
45:LL:12:CYS:HB2	48:LL:501:GDP:N9	2.26	0.50
45:LL:274:THR:HG21	45:LL:282:ARG:HD3	1.93	0.50
44:LM:143:GLY:HA3	46:LM:501:GTP:O2B	2.10	0.50
44:LM:271:SER:HB3	44:LM:377:MET:CB	2.42	0.50
45:LN:60:VAL:HG21	45:LN:86:ARG:CG	2.40	0.50
45:LN:117:LEU:CA	45:LN:120:VAL:HG12	2.39	0.50
45:LN:240:LEU:HD12	45:LN:249:ASP:HB2	1.92	0.50
45:LN:324:LYS:O	45:LN:328:GLU:HG3	2.11	0.50
44:MA:344:VAL:HG11	44:MA:346:TRP:NE1	2.26	0.50
45:MB:68:LEU:HG	45:MB:96:GLY:HA2	1.92	0.50
45:MB:345:ILE:HG23	45:MB:345:ILE:O	2.11	0.50
44:MC:258:ASN:O	44:MC:259:LEU:HD22	2.11	0.50
44:MC:291:ILE:HG13	44:MC:292:THR:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:44:LEU:O	45:MF:47:ILE:HG22	2.11	0.50
44:MG:210:TYR:HB3	45:MH:324:LYS:HZ2	1.76	0.50
44:MG:286:LEU:HA	44:MG:373:ARG:HH22	1.76	0.50
44:MI:172:TYR:HD2	44:MI:203:MET:HE1	1.75	0.50
45:MJ:58:ARG:HD2	45:MJ:59:TYR:O	2.11	0.50
45:MJ:317:PHE:CE2	45:MJ:326:VAL:HG13	2.46	0.50
45:ML:262:ARG:NH1	45:ML:421:GLU:OE1	2.44	0.50
45:ML:290:THR:HG23	45:ML:291:GLN:N	2.25	0.50
44:MM:184:PRO:CG	44:MM:398:MET:HE1	2.41	0.50
44:MM:301:MET:CE	44:MM:307:PRO:HG3	2.42	0.50
45:MN:24:ILE:HD11	45:MN:234:SER:HB3	1.92	0.50
45:MN:310:TYR:CD2	45:MN:341:PHE:HE1	2.30	0.50
44:NA:278:ALA:HB2	44:NA:369:ALA:N	2.26	0.50
45:NB:5:VAL:HA	45:NB:62:ARG:HD3	1.92	0.50
45:ND:14:ASN:HD22	45:ND:72:THR:CG2	2.23	0.50
45:ND:213:ARG:NH2	45:ND:298:ASN:HA	2.26	0.50
44:NE:177:VAL:HG12	45:NF:331:LEU:HD22	1.93	0.50
45:NF:100:ASN:OD1	45:NF:103:LYS:HB2	2.11	0.50
45:NF:210:ILE:HD12	45:NF:298:ASN:ND2	2.26	0.50
44:NG:11:GLN:HA	44:NG:14:ILE:HD13	1.92	0.50
44:NI:264:ARG:CZ	44:NI:264:ARG:HB3	2.40	0.50
44:NI:288:VAL:CA	44:NI:291:ILE:HG12	2.40	0.50
45:NJ:5:VAL:HG22	45:NJ:6:HIS:N	2.26	0.50
45:NJ:164:MET:O	45:NJ:198:GLU:HB2	2.12	0.50
45:NJ:244:GLY:HA2	45:NJ:355:ASP:CG	2.32	0.50
44:NK:184:PRO:O	44:NK:188:ILE:HG12	2.10	0.50
44:NK:344:VAL:HG21	44:NK:346:TRP:HE1	1.76	0.50
44:NM:122:ILE:HD12	44:NM:122:ILE:H	1.74	0.50
44:NM:201:ALA:HB3	44:NM:267:PHE:HA	1.92	0.50
44:OA:132:LEU:HD22	44:OA:164:LYS:HE2	1.93	0.50
44:OA:406:HIS:CD2	45:OB:261:PRO:HD3	2.47	0.50
44:OC:21:TRP:CE3	44:OC:24:PHE:HD2	2.28	0.50
44:OC:408:TYR:CD2	44:OC:418:PHE:HZ	2.29	0.50
45:OD:362:LYS:O	45:OD:363:MET:HG3	2.11	0.50
44:OG:175:PRO:HG3	44:OG:390:ARG:CZ	2.40	0.50
44:OG:257:THR:O	44:OG:257:THR:HG22	2.12	0.50
45:OH:60:VAL:HG11	45:OH:86:ARG:HH21	1.76	0.50
44:OK:102:ASN:CG	44:OK:105:ARG:HG3	2.31	0.50
44:OM:312:TYR:HE2	44:OM:379:SER:HB2	1.76	0.50
45:ON:4:ILE:HD11	45:ON:250:LEU:HD12	1.93	0.50
45:ON:178:THR:CG2	45:ON:180:VAL:HG22	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:376:GLU:HB3	45:ON:380:ARG:NH2	2.26	0.50
44:PA:219:ILE:HG22	44:PA:221:ARG:H	1.74	0.50
45:PB:290:THR:O	45:PB:294:PHE:HD1	1.94	0.50
44:PC:188:ILE:CD1	44:PC:425:LEU:HD12	2.41	0.50
45:PD:326:VAL:O	45:PD:330:MET:HG2	2.11	0.50
45:PD:364:ALA:O	45:PD:365:VAL:HG23	2.11	0.50
44:PE:320:ARG:CZ	44:PE:360:PRO:HA	2.41	0.50
45:PF:2:ARG:HG3	45:PF:240:LEU:HD21	1.93	0.50
45:PF:20:PHE:O	45:PF:25:SER:CB	2.59	0.50
45:PF:201:VAL:HG22	45:PF:202:ILE:N	2.26	0.50
45:PF:266:PHE:CE1	45:PF:370:ASN:HB2	2.46	0.50
45:PH:269:GLY:HA2	45:PH:300:MET:HE1	1.92	0.50
45:PJ:183:TYR:CE1	45:PJ:388:MET:HB2	2.46	0.50
44:PK:102:ASN:HB3	44:PK:105:ARG:CG	2.40	0.50
45:PL:8:GLN:OE1	45:PL:17:GLY:HA3	2.11	0.50
45:PL:182:PRO:O	45:PL:186:THR:OG1	2.14	0.50
45:PL:242:PHE:CD2	45:PL:356:ILE:HG13	2.45	0.50
45:PN:22:GLU:HA	45:PN:81:PHE:CD2	2.46	0.50
44:QA:335:ILE:HD11	44:QA:341:ILE:HD12	1.93	0.50
44:QC:113:GLU:HA	44:QC:113:GLU:OE1	2.10	0.50
44:QC:141:VAL:CG1	44:QC:172:TYR:HA	2.41	0.50
44:QC:259:LEU:HD11	44:QC:316:SER:CB	2.33	0.50
45:QD:271:ALA:HB1	45:QD:292:GLN:NE2	2.26	0.50
44:QE:137:VAL:HG21	44:QE:154:LEU:HD21	1.93	0.50
44:QE:326:LYS:HB3	45:QF:220:PRO:HG2	1.93	0.50
45:QF:31:ASP:HB3	45:QF:32:PRO:HD2	1.91	0.50
45:QF:374:ILE:HG23	45:QF:377:MET:CE	2.42	0.50
44:QG:21:TRP:CH2	44:QG:63:PRO:HB3	2.46	0.50
44:QG:209:ILE:CG2	44:QG:227:LEU:HD22	2.41	0.50
44:QG:238:LEU:HD13	44:QG:318:MET:HE1	1.92	0.50
45:QH:314:SER:HA	45:QH:350:LYS:O	2.12	0.50
44:QI:103:PHE:HE1	44:QI:147:SER:O	1.93	0.50
44:QI:325:PRO:HG3	44:QI:355:ILE:HD13	1.93	0.50
45:QJ:67:ASP:OD2	45:QJ:72:THR:HG21	2.11	0.50
45:QJ:117:LEU:HD11	45:QJ:158:GLU:OE2	2.11	0.50
45:QJ:265:PHE:CE2	45:QJ:418:LEU:HD21	2.46	0.50
45:QJ:321:MET:HB3	45:QJ:363:MET:CE	2.41	0.50
44:QK:11:GLN:HB3	46:QK:501:GTP:O2B	2.11	0.50
45:QL:86:ARG:HD2	45:RL:281:TYR:HB2	1.93	0.50
44:QM:112:LYS:O	44:QM:115:VAL:HG12	2.11	0.50
44:QM:338:LYS:HG2	44:QM:340:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:209:ILE:CD1	44:RA:227:LEU:HB3	2.41	0.50
44:RA:349:THR:CG2	45:RB:179:VAL:HA	2.42	0.50
45:RB:187:LEU:HD11	45:RB:408:PHE:CE1	2.46	0.50
44:RE:294:SER:HA	44:RE:297:GLU:OE2	2.10	0.50
45:RF:7:ILE:HG23	45:RF:64:ILE:CG2	2.41	0.50
45:RF:101:TRP:CD2	45:RF:187:LEU:HB3	2.46	0.50
45:RF:179:VAL:O	45:RF:182:PRO:HD2	2.10	0.50
44:RG:103:PHE:CD1	44:RG:147:SER:HB2	2.46	0.50
44:RG:344:VAL:HG22	44:RG:345:ASP:H	1.76	0.50
45:RH:36:TYR:CD1	45:RH:44:LEU:HD21	2.47	0.50
45:RH:256:ASN:HD22	45:RH:350:LYS:CD	2.23	0.50
45:RH:289:LEU:HD22	45:RH:365:VAL:CG2	2.41	0.50
45:RJ:95:THR:HG21	45:RJ:108:GLU:OE2	2.10	0.50
44:RK:214:ARG:HG2	44:RK:214:ARG:HH11	1.76	0.50
45:RL:6:HIS:CB	45:RL:134:GLN:HE21	2.24	0.50
45:RL:69:GLU:CD	45:RL:71:GLY:H	2.15	0.50
45:RL:376:GLU:HA	45:RL:379:LYS:NZ	2.26	0.50
44:RM:221:ARG:N	44:RM:222:PRO:HD3	2.26	0.50
45:RN:392:LYS:HG3	45:RN:395:LEU:HD22	1.92	0.50
44:SA:288:VAL:HG23	44:SA:291:ILE:CD1	2.39	0.50
44:SA:348:PRO:HB2	45:SB:384:GLN:CD	2.32	0.50
45:SB:20:PHE:HA	45:SB:23:VAL:HB	1.92	0.50
44:SC:186:ASN:O	44:SC:190:SER:N	2.30	0.50
45:SD:86:ARG:NH2	45:SD:87:PRO:HD2	2.26	0.50
45:SD:106:TYR:HE2	45:SD:403:MET:HG2	1.76	0.50
45:SD:203:ASP:O	45:SD:207:LEU:HG	2.11	0.50
45:SD:256:ASN:HD22	45:SD:350:LYS:HE2	1.76	0.50
45:SF:263:LEU:HD22	45:SF:422:TYR:CD1	2.46	0.50
44:SG:9:VAL:HG21	44:SG:149:LEU:CB	2.41	0.50
44:SG:214:ARG:HH12	44:SG:220:GLU:CB	2.24	0.50
44:SG:272:TYR:HB2	44:SG:302:MET:HE2	1.94	0.50
44:SG:325:PRO:O	44:SG:328:VAL:HB	2.11	0.50
44:SG:372:MET:O	44:SG:373:ARG:HD3	2.10	0.50
44:SI:8:HIS:HB3	44:SI:13:GLY:O	2.11	0.50
44:SI:72:PRO:HG3	44:SI:95:GLY:O	2.11	0.50
45:SJ:114:ASP:O	45:SJ:117:LEU:HB3	2.12	0.50
45:SJ:173:PRO:CD	45:SJ:380:ARG:HH11	2.24	0.50
45:SJ:197:ASP:O	45:SJ:264:HIS:HB2	2.11	0.50
44:SK:99:ALA:H	44:SK:145:THR:HB	1.75	0.50
44:SK:188:ILE:HD12	44:SK:425:LEU:CD1	2.39	0.50
45:SN:191:GLN:HG3	45:SN:195:ASN:HD22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:237:THR:OG1	45:SN:240:LEU:HB3	2.10	0.50
45:SN:313:ALA:HA	45:SN:368:VAL:O	2.11	0.50
44:TC:315:CYS:HA	44:TC:379:SER:HG	1.76	0.50
45:TD:229:VAL:O	45:TD:232:ALA:HB3	2.10	0.50
45:TD:230:SER:O	45:TD:234:SER:N	2.43	0.50
44:TE:252:ILE:HG12	44:TE:255:PHE:HE2	1.77	0.50
45:TF:247:ASN:O	45:TF:252:LYS:NZ	2.43	0.50
44:TG:4:VAL:HG21	44:TG:136:LEU:CD2	2.41	0.50
45:TH:101:TRP:HB3	45:TH:398:TYR:HE1	1.76	0.50
45:TH:255:VAL:HG21	44:TI:100:ALA:O	2.11	0.50
44:TI:6:SER:O	44:TI:66:VAL:HG12	2.11	0.50
44:TI:325:PRO:HG3	44:TI:355:ILE:CD1	2.40	0.50
45:TL:242:PHE:CE2	45:TL:356:ILE:HG13	2.46	0.50
44:TM:271:SER:OG	44:TM:301:MET:HA	2.11	0.50
44:TM:329:ASN:O	44:TM:332:ILE:N	2.44	0.50
44:TM:390:ARG:HG3	44:TM:391:LEU:N	2.27	0.50
44:UA:188:ILE:HD12	44:UA:425:LEU:CD1	2.34	0.50
44:UA:271:SER:HB2	44:UA:377:MET:HG2	1.92	0.50
44:UC:250:VAL:HG12	44:UC:255:PHE:CE1	2.44	0.50
44:UC:254:GLU:HG2	45:UD:98:GLY:HA2	1.93	0.50
44:UC:435:VAL:O	45:UD:391:ARG:NH2	2.44	0.50
45:UD:100:ASN:HD21	45:UD:102:ALA:HB3	1.75	0.50
45:UD:385:PHE:HE2	45:UD:412:GLU:HB2	1.76	0.50
44:UE:2:ARG:HA	44:UE:131:GLY:HA3	1.93	0.50
45:UH:282:ARG:HH11	45:UH:283:ALA:H	1.59	0.50
44:UI:115:VAL:O	44:UI:118:CYS:HB3	2.11	0.50
44:UI:219:ILE:CG2	44:UI:222:PRO:HB3	2.41	0.50
44:UI:258:ASN:HD21	44:UI:352:LYS:HD3	1.77	0.50
44:UI:387:VAL:HG12	44:UI:390:ARG:NH1	2.25	0.50
45:UJ:8:GLN:CG	45:UJ:65:LEU:HG	2.41	0.50
45:UJ:215:LEU:CD2	45:UJ:273:LEU:HB3	2.42	0.50
45:UL:260:PHE:HB3	45:UL:261:PRO:CD	2.35	0.50
44:UM:137:VAL:HG12	44:UM:167:LEU:O	2.11	0.50
44:VC:28:HIS:CE1	44:VC:243:ARG:HD2	2.47	0.50
44:VC:183:GLU:HG2	44:VC:184:PRO:HD3	1.93	0.50
44:VC:273:ALA:HB1	44:VC:274:PRO:HA	1.93	0.50
45:VD:11:GLN:HB3	48:VD:501:GDP:O3A	2.11	0.50
45:VD:51:TYR:HD2	45:VD:52:ASN:H	1.57	0.50
45:VD:72:THR:HG23	45:VD:73:MET:N	2.25	0.50
45:VD:263:LEU:CD2	45:VD:422:TYR:CE1	2.94	0.50
45:VD:423:GLN:HE22	45:VD:426:GLN:CG	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:291:ILE:HD13	44:VE:373:ARG:HD3	1.94	0.50
45:VF:287:PRO:HD3	45:VF:325:GLU:OE2	2.11	0.50
44:VG:10:GLY:O	44:VG:13:GLY:N	2.43	0.50
44:VG:110:ILE:HG13	44:VG:111:GLY:N	2.27	0.50
44:VG:221:ARG:NH1	45:VH:325:GLU:HB3	2.26	0.50
45:VH:286:VAL:HB	45:VH:287:PRO:HD3	1.93	0.50
44:VI:217:LEU:HD22	44:VI:277:SER:HB3	1.94	0.50
44:VI:303:ALA:O	44:VI:305:CYS:N	2.43	0.50
44:VI:344:VAL:HG21	44:VI:346:TRP:NE1	2.27	0.50
44:VK:4:VAL:HG12	44:VK:51:THR:O	2.11	0.50
44:VK:63:PRO:CD	44:VK:87:PHE:HA	2.41	0.50
44:VK:298:PRO:HA	44:VK:301:MET:CG	2.39	0.50
44:VM:2:ARG:HG3	44:VM:51:THR:CG2	2.36	0.50
45:VN:398:TYR:O	45:VN:403:MET:HB2	2.10	0.50
44:WA:251:ASP:H	44:WA:254:GLU:HB2	1.76	0.50
44:WA:434:GLU:O	44:WA:437:ILE:HG12	2.11	0.50
45:WB:4:ILE:CG2	45:WB:131:GLN:HB3	2.40	0.50
45:WB:375:GLN:CB	45:WB:419:VAL:HG13	2.42	0.50
45:WD:22:GLU:HA	45:WD:81:PHE:CD2	2.46	0.50
44:WE:361:THR:HG22	44:WE:362:VAL:N	2.25	0.50
44:WG:14:ILE:HD13	44:WG:74:VAL:HG23	1.93	0.50
44:WG:311:LYS:HD2	44:WG:342:GLN:NE2	2.25	0.50
44:WI:257:THR:HA	45:WL:397:TRP:HH2	1.73	0.50
44:WK:330:ALA:O	44:WK:333:ALA:HB3	2.11	0.50
44:WM:141:VAL:HG12	44:WM:141:VAL:O	2.11	0.50
44:WM:171:ILE:HA	44:WM:204:LEU:HB2	1.92	0.50
44:WM:221:ARG:HB3	45:WN:322:SER:OG	2.11	0.50
44:WM:279:GLU:O	44:WM:280:LYS:HD2	2.10	0.50
45:WN:47:ILE:CG1	45:WN:51:TYR:HB2	2.40	0.50
45:WN:156:ARG:HG3	45:WN:195:ASN:HB3	1.92	0.50
4:1C:51:ASN:CB	45:EL:321:MET:HE1	2.41	0.50
22:1L:894:ARG:NH1	44:CC:365:GLY:HA3	2.27	0.50
10:1N:94:THR:HG23	45:KJ:280:GLN:CG	2.41	0.50
25:1P:254:ALA:HB1	45:TF:276:ARG:HG2	1.93	0.50
27:1W:239:ARG:HB2	45:LB:279:GLN:NE2	2.25	0.50
30:2G:14:TYR:HE1	44:KG:339:ARG:HB2	1.76	0.50
22:2L:752:LEU:HD22	45:BL:320:ARG:HG2	1.92	0.50
10:2N:1:MET:CE	44:IA:117:LEU:HD13	2.35	0.50
11:2Q:104:ARG:NH2	44:AE:423:GLU:HG2	2.26	0.50
26:2R:30:GLN:HE22	45:MJ:77:ARG:HB2	1.75	0.50
26:2R:407:PHE:CB	44:DG:58:ALA:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:10:PRO:HD3	45:LN:31:ASP:HB2	1.92	0.50
34:4F:33:ASP:N	45:HJ:41:ASP:OD2	2.44	0.50
35:4R:245:LEU:HB3	44:BE:58:ALA:CB	2.41	0.50
37:5C:57:PRO:HG2	45:KJ:390:ARG:HG2	1.89	0.50
37:5D:19:ARG:HB3	45:KN:415:MET:O	2.11	0.50
38:5G:90:SER:OG	45:KJ:194:GLU:O	2.30	0.50
39:5J:36:TYR:CZ	44:NE:309:HIS:HA	2.47	0.50
11:5Q:78:MET:HE2	11:5Q:156:ILE:HD11	1.93	0.50
35:5R:219:LYS:HE3	45:BL:78:ALA:HB3	1.91	0.50
41:6G:95:VAL:HG13	41:6G:96:GLN:N	2.27	0.50
35:6R:446:PHE:CD1	35:6R:487:GLU:HG2	2.44	0.50
35:6R:497:GLN:NE2	35:6R:499:GLY:O	2.44	0.50
35:7R:96:TYR:CD1	35:7R:182:ASP:HB3	2.46	0.50
42:8N:17:UNK:CB	44:RM:278:ALA:HB1	2.41	0.50
44:AA:276:ILE:CG2	44:AA:281:ALA:HA	2.40	0.50
44:AC:271:SER:OG	44:AC:301:MET:SD	2.68	0.50
45:AF:49:VAL:HG21	45:AF:241:ARG:HG2	1.93	0.50
45:AF:64:ILE:HG21	45:AF:119:VAL:HG11	1.93	0.50
45:AH:39:ASP:N	45:AH:43:GLN:OE1	2.39	0.50
45:AJ:3:GLU:CG	45:AJ:127:CYS:HB2	2.41	0.50
45:AJ:267:MET:HE1	45:AJ:374:ILE:HG22	1.92	0.50
44:AK:20:CYS:O	44:AK:24:PHE:HD2	1.95	0.50
44:AK:164:LYS:HE2	44:AK:164:LYS:HA	1.93	0.50
45:AL:254:ALA:HA	45:AL:258:ILE:CD1	2.41	0.50
45:AL:308:GLY:O	45:AL:309:ARG:HG3	2.11	0.50
45:AN:290:THR:HG21	45:AN:329:GLN:OE1	2.10	0.50
44:BA:102:ASN:HB3	44:BA:105:ARG:HG3	1.92	0.50
44:BC:70:LEU:HD13	44:BC:110:ILE:HD12	1.92	0.50
45:BD:67:ASP:OD1	45:BD:68:LEU:N	2.43	0.50
45:BH:92:PHE:C	45:BH:112:LEU:HD11	2.32	0.50
45:BJ:112:LEU:O	45:BJ:112:LEU:HD23	2.10	0.50
44:BM:22:GLU:HG3	44:BM:83:TYR:CZ	2.45	0.50
45:BN:86:ARG:HG3	45:CL:281:TYR:CG	2.46	0.50
44:CA:104:ALA:HB1	44:CA:411:GLU:HB3	1.93	0.50
44:CA:296:PHE:CD2	44:CA:335:ILE:HD12	2.46	0.50
44:CA:344:VAL:HG11	44:CA:346:TRP:NE1	2.25	0.50
45:CB:10:GLY:H	45:CB:14:ASN:ND2	2.08	0.50
45:CB:245:GLN:C	45:CB:246:LEU:HD12	2.32	0.50
45:CD:249:ASP:OD1	45:CD:252:LYS:N	2.23	0.50
45:CH:20:PHE:CD1	45:CH:233:MET:CE	2.94	0.50
45:CJ:252:LYS:HG2	45:CJ:350:LYS:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:350:LYS:CD	44:CM:181:VAL:HG13	2.41	0.50
44:CM:74:VAL:HG23	44:CM:75:ILE:HD12	1.93	0.50
44:CM:102:ASN:OD1	44:CM:104:ALA:HB3	2.11	0.50
45:CN:116:VAL:HG22	45:CN:120:VAL:HG23	1.93	0.50
45:CN:387:ALA:O	45:CN:390:ARG:HG2	2.10	0.50
45:DB:7:ILE:O	45:DB:135:ILE:HG23	2.11	0.50
45:DB:178:THR:HG22	45:DB:180:VAL:H	1.76	0.50
45:DD:21:TRP:CZ3	45:DD:61:PRO:HB3	2.46	0.50
45:DD:229:VAL:O	45:DD:232:ALA:N	2.44	0.50
45:DF:5:VAL:HG12	45:DF:62:ARG:CD	2.42	0.50
45:DF:296:ALA:HA	45:DF:299:MET:HE2	1.92	0.50
44:DG:78:VAL:O	44:DG:84:ARG:HA	2.12	0.50
45:DH:5:VAL:HG12	45:DH:62:ARG:HD3	1.92	0.50
45:DH:360:GLY:O	45:DH:361:LEU:HD23	2.11	0.50
44:DI:7:ILE:CD1	44:DI:66:VAL:HG21	2.41	0.50
44:DI:390:ARG:HG3	44:DI:391:LEU:N	2.26	0.50
45:DJ:7:ILE:HG12	45:DJ:64:ILE:CB	2.40	0.50
44:DK:181:VAL:HG23	44:DK:182:VAL:HG13	1.92	0.50
45:DL:176:SER:HB2	45:DL:181:GLU:OE1	2.11	0.50
44:DM:256:GLN:O	45:DN:397:TRP:NE1	2.44	0.50
44:EA:384:ILE:O	44:EA:384:ILE:HG13	2.12	0.50
45:EB:67:ASP:OD1	45:EB:68:LEU:N	2.44	0.50
45:EB:72:THR:HG23	45:EB:73:MET:N	2.27	0.50
45:EB:175:VAL:O	45:EB:175:VAL:HG23	2.11	0.50
45:EF:346:PRO:HG3	44:EG:394:LYS:HG2	1.94	0.50
44:EG:89:PRO:HD3	44:FE:283:HIS:ND1	2.25	0.50
44:EG:291:ILE:HG13	44:EG:292:THR:N	2.26	0.50
45:EH:199:CYS:SG	45:EH:201:VAL:HG22	2.50	0.50
44:EI:179:THR:HG21	46:EI:501:GTP:O3'	2.11	0.50
44:EI:232:ALA:HA	44:EI:235:ILE:HD13	1.94	0.50
45:EJ:322:SER:H	44:EK:221:ARG:CZ	2.23	0.50
44:EK:432:TYR:O	44:EK:435:VAL:HG12	2.11	0.50
45:EL:99:ASN:ND2	48:EL:501:GDP:O2A	2.44	0.50
45:EL:260:PHE:HB2	45:EL:263:LEU:HD13	1.93	0.50
44:EM:240:ALA:HB1	44:EM:356:ASN:HD22	1.76	0.50
44:FA:122:ILE:O	44:FA:126:ALA:N	2.38	0.50
44:FA:190:SER:O	44:FA:194:LEU:HG	2.11	0.50
44:FA:231:ILE:O	44:FA:235:ILE:HD12	2.10	0.50
44:FA:319:TYR:CE1	44:FA:328:VAL:HG13	2.45	0.50
45:FB:55:THR:CG2	45:GB:283:ALA:HA	2.41	0.50
45:FB:140:GLY:HA2	45:FB:171:PRO:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:183:TYR:HD1	45:FB:385:PHE:HD1	1.59	0.50
45:FB:306:ARG:HG2	45:FB:340:TYR:CE2	2.47	0.50
44:FC:288:VAL:HG13	44:FC:289:ALA:N	2.27	0.50
45:FD:314:SER:HA	45:FD:350:LYS:HB3	1.92	0.50
44:FE:221:ARG:HG3	44:FE:221:ARG:O	2.12	0.50
45:FF:175:VAL:O	45:FF:175:VAL:HG23	2.12	0.50
45:FF:258:ILE:HD11	45:FF:266:PHE:HZ	1.75	0.50
44:FG:250:VAL:HG21	44:FG:318:MET:SD	2.51	0.50
45:FH:323:THR:O	45:FH:325:GLU:HG2	2.10	0.50
44:FK:115:VAL:HG22	44:FK:119:LEU:HD23	1.93	0.50
44:FK:344:VAL:HG21	44:FK:346:TRP:NE1	2.26	0.50
45:FL:51:TYR:HA	45:FL:60:VAL:O	2.12	0.50
45:FL:180:VAL:CG2	45:FL:183:TYR:HB2	2.41	0.50
44:FM:75:ILE:HG23	44:FM:92:LEU:HB3	1.93	0.50
45:FN:103:LYS:N	45:FN:401:GLU:OE1	2.44	0.50
45:FN:293:MET:HE2	45:FN:367:PHE:CB	2.41	0.50
44:GA:119:LEU:HD21	44:GA:156:ARG:HD2	1.92	0.50
45:GD:50:TYR:OH	45:GD:134:GLN:OE1	2.23	0.50
45:GD:92:PHE:C	45:GD:112:LEU:HD11	2.31	0.50
45:GD:319:GLY:N	45:GD:354:CYS:O	2.45	0.50
44:GE:71:GLU:OE2	44:GE:73:THR:OG1	2.27	0.50
44:GG:175:PRO:HD2	44:GG:207:GLU:OE1	2.11	0.50
45:GH:135:ILE:O	45:GH:166:THR:HA	2.12	0.50
44:GI:222:PRO:HD2	45:GJ:324:LYS:CE	2.38	0.50
44:GI:286:LEU:HG	44:GI:371:VAL:CG1	2.40	0.50
44:GK:195:LEU:HA	44:GK:266:HIS:NE2	2.26	0.50
44:GK:387:VAL:HA	44:GK:390:ARG:NH1	2.26	0.50
44:GM:402:ARG:C	44:GM:405:VAL:HG13	2.32	0.50
45:GN:305:PRO:HA	45:GN:373:ALA:HB2	1.92	0.50
44:HA:68:LEU:HD21	44:HA:118:CYS:HB2	1.92	0.50
44:HA:91:GLN:CD	44:HA:121:ARG:HD2	2.32	0.50
45:HB:156:ARG:HD3	45:HB:164:MET:CG	2.41	0.50
45:HB:210:ILE:HG23	45:HB:214:THR:CG2	2.42	0.50
45:HB:221:THR:HG23	45:HB:223:GLY:N	2.25	0.50
45:HB:306:ARG:HB2	45:HB:340:TYR:HE1	1.75	0.50
45:HD:232:ALA:O	45:HD:236:VAL:HG23	2.11	0.50
45:HD:382:ALA:HB2	45:HD:415:MET:CE	2.42	0.50
45:HF:308:GLY:HA3	45:HF:372:THR:HG23	1.92	0.50
44:HG:135:PHE:HD2	44:HG:157:LEU:HD21	1.75	0.50
45:HH:317:PHE:HA	45:HH:365:VAL:HG23	1.93	0.50
44:HI:208:ALA:O	44:HI:212:ILE:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:408:TYR:HD1	44:HI:418:PHE:HZ	1.60	0.50
45:HJ:167:PHE:CE1	45:HJ:200:MET:HG3	2.47	0.50
45:HJ:303:ALA:HB2	45:HJ:377:MET:HG2	1.94	0.50
44:HK:248:LEU:HD23	44:HK:355:ILE:CD1	2.41	0.50
44:HM:54:SER:HB3	44:HM:64:ARG:NH2	2.26	0.50
44:IA:88:HIS:ND1	44:IA:91:GLN:HG3	2.26	0.50
45:IB:52:ASN:OD1	45:IB:62:ARG:NH2	2.43	0.50
45:IB:251:ARG:O	45:IB:255:VAL:N	2.44	0.50
45:IB:330:MET:HA	45:IB:333:VAL:CG1	2.41	0.50
44:IE:14:ILE:HD13	44:IE:75:ILE:HD11	1.94	0.50
44:IE:276:ILE:HD13	44:IE:281:ALA:HA	1.93	0.50
44:IE:332:ILE:O	44:IE:335:ILE:HG22	2.11	0.50
44:IE:370:LYS:O	44:IE:370:LYS:HG3	2.10	0.50
45:IH:60:VAL:HG22	45:IH:61:PRO:CD	2.41	0.50
45:IH:222:TYR:O	45:IH:226:ASN:ND2	2.44	0.50
44:II:121:ARG:NH1	44:II:124:LYS:HD2	2.25	0.50
44:II:145:THR:HG22	46:II:501:GTP:O3B	2.11	0.50
44:II:183:GLU:HG2	44:II:184:PRO:CD	2.42	0.50
44:II:224:TYR:CG	45:IJ:323:THR:HG21	2.46	0.50
44:IK:238:LEU:O	44:IK:238:LEU:HD23	2.10	0.50
44:IK:296:PHE:HE2	44:IK:335:ILE:HG21	1.76	0.50
44:IM:202:VAL:HA	44:IM:268:MET:O	2.10	0.50
45:IN:114:ASP:OD1	45:IN:115:SER:N	2.44	0.50
44:JA:183:GLU:N	44:JA:184:PRO:HD2	2.26	0.50
44:JA:194:LEU:HD11	44:JA:198:THR:OG1	2.11	0.50
44:JA:211:ASP:O	44:JA:215:ARG:HG3	2.11	0.50
45:JB:26:ASP:O	45:JB:29:GLY:N	2.44	0.50
44:JE:185:TYR:OH	44:JE:403:ALA:O	2.19	0.50
44:JG:66:VAL:HG22	44:JG:68:LEU:CD1	2.41	0.50
45:JH:151:LEU:O	45:JH:155:VAL:HG13	2.11	0.50
44:JI:51:THR:HG21	44:JI:243:ARG:CB	2.27	0.50
44:JI:151:SER:HB2	44:JI:193:SER:OG	2.11	0.50
44:JI:311:LYS:H	44:JI:382:THR:CG2	2.24	0.50
44:JM:177:VAL:HG21	45:JN:327:ASP:O	2.11	0.50
44:JM:239:THR:CG2	44:JM:242:LEU:HB2	2.41	0.50
45:KB:207:LEU:HD13	45:KB:225:LEU:HG	1.93	0.50
45:KB:246:LEU:HD13	45:KB:353:ILE:HD13	1.94	0.50
44:KC:118:CYS:SG	44:KC:153:LEU:HD11	2.50	0.50
45:KD:47:ILE:HG12	45:KD:59:TYR:CE2	2.46	0.50
44:KE:112:LYS:HE3	44:KE:113:GLU:CD	2.31	0.50
45:KF:267:MET:HE2	45:KF:299:MET:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:178:SER:HB3	45:KH:347:ASN:ND2	2.26	0.50
44:KG:319:TYR:CE1	44:KG:375:VAL:HG23	2.46	0.50
44:KG:326:LYS:HZ3	45:KJ:220:PRO:N	2.09	0.50
45:KH:342:VAL:HG22	45:KH:343:GLU:H	1.77	0.50
44:KI:108:TYR:O	44:KI:112:LYS:HD3	2.10	0.50
44:KI:173:PRO:HG2	44:KI:183:GLU:OE1	2.11	0.50
44:KI:223:THR:HG22	44:KI:226:ASN:OD1	2.11	0.50
44:KI:363:VAL:HG13	44:KI:364:PRO:HD2	1.93	0.50
45:KJ:40:SER:H	45:KJ:43:GLN:HE21	1.57	0.50
45:KJ:380:ARG:HG3	45:KJ:381:VAL:N	2.26	0.50
44:KK:287:SER:O	44:KK:291:ILE:HG12	2.11	0.50
45:KL:189:VAL:HG21	45:KL:378:PHE:CZ	2.46	0.50
45:KL:201:VAL:HG21	45:KL:377:MET:SD	2.51	0.50
44:KM:13:GLY:CA	44:KM:16:VAL:HG12	2.41	0.50
45:KN:294:PHE:CE1	45:KN:333:VAL:HG21	2.46	0.50
45:LB:208:TYR:CE1	45:LB:225:LEU:HD21	2.46	0.50
45:LD:31:ASP:OD2	45:LD:37:HIS:ND1	2.44	0.50
44:LG:274:PRO:HG3	44:LG:286:LEU:CD2	2.40	0.50
44:LG:296:PHE:CE2	44:LG:335:ILE:HG21	2.45	0.50
45:LH:117:LEU:O	45:LH:120:VAL:HG12	2.10	0.50
44:LI:182:VAL:O	44:LI:182:VAL:HG22	2.11	0.50
45:LJ:101:TRP:HB2	45:LJ:184:ASN:OD1	2.11	0.50
44:LK:47:ASP:OD2	44:LK:47:ASP:N	2.36	0.50
45:LL:405:GLU:HG3	45:LL:406:MET:HE2	1.93	0.50
45:LN:130:LEU:HD23	45:LN:162:ARG:NE	2.10	0.50
45:LN:311:LEU:CD1	45:LN:342:VAL:HG21	2.42	0.50
44:MA:10:GLY:N	44:MA:69:ASP:OD1	2.40	0.50
45:MB:310:TYR:CD1	45:MB:371:SER:HB2	2.46	0.50
44:MC:222:PRO:HD2	45:MD:324:LYS:CG	2.33	0.50
44:MC:261:PRO:HA	45:MF:394:PHE:CD1	2.46	0.50
45:MD:143:THR:HG22	48:MD:501:GDP:PB	2.52	0.50
45:MD:217:LEU:HD23	45:MD:219:THR:H	1.75	0.50
44:ME:305:CYS:O	44:ME:307:PRO:HD3	2.11	0.50
45:MF:196:ALA:HB3	45:MF:264:HIS:CE1	2.46	0.50
45:MF:242:PHE:CB	45:MF:356:ILE:HD12	2.41	0.50
44:MI:136:LEU:HD23	44:MI:167:LEU:HB2	1.93	0.50
45:MJ:237:THR:HG22	45:MJ:250:LEU:CD2	2.36	0.50
45:ML:7:ILE:HD12	45:ML:151:LEU:CD2	2.39	0.50
45:ML:130:LEU:HB3	45:ML:162:ARG:HE	1.76	0.50
45:ML:270:PHE:CD1	45:ML:271:ALA:N	2.79	0.50
44:MM:5:ILE:HD12	44:MM:135:PHE:CE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MN:329:GLN:O	45:MN:332:ASN:HB3	2.12	0.50
44:NA:5:ILE:CG1	44:NA:64:ARG:HD2	2.41	0.50
45:NB:55:THR:H	45:OB:283:ALA:HA	1.76	0.50
44:NC:274:PRO:HD2	44:NC:374:ALA:HA	1.93	0.50
45:ND:46:ARG:CB	45:ND:241:ARG:HA	2.41	0.50
45:NH:100:ASN:ND2	45:NH:401:GLU:OE2	2.45	0.50
45:NH:170:VAL:HG21	45:NH:377:MET:CE	2.42	0.50
44:NI:36:MET:HG3	44:NI:36:MET:O	2.11	0.50
44:NI:84:ARG:HG3	44:NI:85:GLN:NE2	2.27	0.50
44:NI:200:VAL:HG13	44:NI:268:MET:HE3	1.92	0.50
44:NI:346:TRP:O	44:NI:346:TRP:CE3	2.64	0.50
44:NK:225:THR:HA	44:NK:228:ASN:ND2	2.26	0.50
45:NL:303:ALA:HB2	45:NL:377:MET:HE2	1.93	0.50
45:NL:375:GLN:OE1	45:NL:423:GLN:HB2	2.12	0.50
44:NM:315:CYS:HB2	44:NM:351:PHE:CD1	2.45	0.50
45:NN:5:VAL:CA	45:NN:62:ARG:HD3	2.41	0.50
45:NN:86:ARG:HH22	45:ON:278:SER:HA	1.76	0.50
45:NN:284:LEU:O	45:NN:284:LEU:HD12	2.11	0.50
45:NN:312:THR:OG1	45:NN:348:ASN:HB2	2.11	0.50
45:OD:213:ARG:NE	45:OD:213:ARG:HA	2.27	0.50
45:OF:296:ALA:O	45:OF:299:MET:HE1	2.11	0.50
44:OG:74:VAL:HG23	44:OG:75:ILE:HD12	1.92	0.50
44:OG:88:HIS:CD2	44:OG:91:GLN:HG3	2.46	0.50
44:OG:224:TYR:CD2	45:OH:323:THR:HG21	2.47	0.50
44:OG:265:ILE:HD12	44:OG:432:TYR:HE1	1.74	0.50
45:OH:202:ILE:HD11	45:OH:268:ILE:CD1	2.41	0.50
44:OI:9:VAL:HG13	44:OI:139:ASN:HB3	1.91	0.50
45:OJ:163:ILE:HG22	45:OJ:197:ASP:OD2	2.11	0.50
45:OJ:275:SER:O	45:OJ:279:GLN:HG3	2.10	0.50
45:OJ:380:ARG:HG3	45:OJ:381:VAL:N	2.26	0.50
44:OK:284:GLU:HG3	44:OK:286:LEU:HD22	1.94	0.50
44:OM:9:VAL:HG23	44:OM:149:LEU:HB2	1.93	0.50
44:PA:101:ASN:N	44:PA:144:GLY:HA3	2.26	0.50
44:PC:252:ILE:HA	44:PC:255:PHE:CE2	2.46	0.50
44:PC:254:GLU:O	44:PC:258:ASN:ND2	2.44	0.50
44:PC:311:LYS:HD2	44:PC:342:GLN:HG3	1.93	0.50
45:PD:156:ARG:NH1	45:PD:159:TYR:O	2.44	0.50
44:PE:7:ILE:HB	44:PE:137:VAL:CA	2.40	0.50
44:PE:132:LEU:HG	44:PE:132:LEU:O	2.11	0.50
44:PE:161:TYR:HB3	44:PE:164:LYS:HE2	1.93	0.50
44:PE:258:ASN:OD1	45:PH:179:VAL:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:2:ARG:NE	45:PF:240:LEU:HG	2.27	0.50
45:PF:20:PHE:CD1	45:PF:23:VAL:C	2.84	0.50
44:PG:51:THR:CG2	44:PG:242:LEU:HD23	2.41	0.50
44:PG:205:ASP:OD1	44:PG:208:ALA:HB3	2.11	0.50
45:PH:21:TRP:O	45:PH:24:ILE:HG22	2.10	0.50
44:PI:1:MET:HG2	45:PL:70:PRO:HG2	1.93	0.50
44:PI:170:THR:O	44:PI:171:ILE:HD13	2.11	0.50
44:PI:268:MET:CB	44:PI:380:ASN:HA	2.39	0.50
45:PJ:237:THR:HG23	45:PJ:241:ARG:NH2	2.25	0.50
44:PK:288:VAL:CB	44:PK:373:ARG:HE	2.24	0.50
44:PK:401:LYS:O	44:PK:401:LYS:HG3	2.12	0.50
45:PL:22:GLU:HG2	45:PL:81:PHE:CD2	2.45	0.50
44:PM:420:GLU:HA	44:PM:423:GLU:CG	2.41	0.50
45:PN:391:ARG:O	45:PN:392:LYS:HB2	2.11	0.50
44:QA:280:LYS:C	44:QA:283:HIS:HD1	2.15	0.50
45:QB:145:SER:O	45:QB:149:THR:HB	2.11	0.50
45:QB:169:VAL:O	45:QB:169:VAL:HG23	2.11	0.50
45:QB:350:LYS:HD2	44:QC:180:ALA:HA	1.92	0.50
45:QB:394:PHE:HA	45:QB:396:HIS:CE1	2.47	0.50
45:QD:16:ILE:HA	45:QD:226:ASN:OD1	2.12	0.50
44:QE:340:THR:O	44:QE:341:ILE:HD13	2.11	0.50
45:QF:185:ALA:O	45:QF:188:SER:OG	2.19	0.50
45:QH:4:ILE:HD11	45:QH:50:TYR:CE1	2.45	0.50
45:QH:251:ARG:HA	45:QH:254:ALA:HB3	1.93	0.50
44:QI:420:GLU:CA	44:QI:423:GLU:HG2	2.38	0.50
45:QJ:103:LYS:N	45:QJ:401:GLU:OE1	2.45	0.50
44:QK:320:ARG:CD	44:QK:360:PRO:HG3	2.41	0.50
45:QL:63:ALA:O	45:QL:89:ASN:ND2	2.27	0.50
45:QL:64:ILE:CG2	45:QL:116:VAL:HG23	2.42	0.50
45:QL:215:LEU:HD11	45:QL:217:LEU:HG	1.92	0.50
45:QL:231:ALA:O	45:QL:234:SER:N	2.44	0.50
45:QL:263:LEU:HG	45:QL:422:TYR:CE2	2.46	0.50
44:QM:26:LEU:CD2	44:QM:364:PRO:HD2	2.41	0.50
44:QM:326:LYS:HE2	45:QN:220:PRO:HD2	1.92	0.50
45:RB:214:THR:O	45:RB:216:LYS:HG3	2.11	0.50
44:RC:189:LEU:HD11	44:RC:418:PHE:CE1	2.46	0.50
45:RD:116:VAL:CG1	45:RD:151:LEU:HD12	2.40	0.50
45:RD:135:ILE:HG13	45:RD:152:ILE:CD1	2.41	0.50
44:RE:183:GLU:HG2	44:RE:184:PRO:CD	2.41	0.50
44:RE:274:PRO:HD2	44:RE:374:ALA:CB	2.42	0.50
44:RG:183:GLU:HG2	44:RG:184:PRO:CD	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:425:LEU:O	44:RG:429:GLU:HG3	2.11	0.50
45:RH:30:ILE:HD12	45:RH:36:TYR:HA	1.93	0.50
45:RH:132:GLY:CA	45:RH:163:ILE:HG22	2.38	0.50
44:RI:91:GLN:HG3	44:RI:92:LEU:HD12	1.93	0.50
44:RI:103:PHE:HB2	44:RI:186:ASN:CB	2.39	0.50
45:RJ:156:ARG:HH12	45:RJ:197:ASP:CG	2.14	0.50
44:RK:287:SER:HB3	44:RK:290:GLU:CG	2.41	0.50
45:RL:24:ILE:HA	45:RL:27:GLU:HB2	1.93	0.50
44:RM:88:HIS:CG	44:RM:89:PRO:HD2	2.46	0.50
44:RM:213:CYS:CA	44:RM:217:LEU:HB2	2.42	0.50
45:RN:44:LEU:HD22	45:RN:59:TYR:OH	2.11	0.50
45:RN:65:LEU:HD11	45:RN:85:PHE:CE2	2.46	0.50
45:RN:86:ARG:HD2	45:SN:281:TYR:HB3	1.93	0.50
44:SA:123:ARG:NH1	44:SA:126:ALA:HB3	2.25	0.50
44:SA:313:MET:HG2	44:SA:382:THR:N	2.26	0.50
44:SA:373:ARG:HA	44:SA:373:ARG:HH11	1.76	0.50
45:SB:241:ARG:HG3	45:SB:242:PHE:CE2	2.45	0.50
45:SD:257:LEU:HB3	45:SD:266:PHE:CE2	2.46	0.50
44:SE:210:TYR:HE1	44:SE:227:LEU:HD11	1.76	0.50
44:SK:289:ALA:O	44:SK:292:THR:HG22	2.11	0.50
45:SL:347:ASN:HB3	44:SM:178:SER:OG	2.11	0.50
45:SN:69:GLU:OE2	45:SN:72:THR:N	2.44	0.50
44:TC:88:HIS:ND1	44:TC:89:PRO:HD2	2.26	0.50
44:TC:143:GLY:CA	46:TC:501:GTP:H5'	2.41	0.50
45:TD:212:PHE:HE2	45:TD:220:PRO:HG2	1.77	0.50
45:TD:292:GLN:O	45:TD:292:GLN:HG2	2.11	0.50
44:TG:24:PHE:HE1	44:TG:236:SER:HB2	1.76	0.50
44:TG:168:GLY:O	44:TG:201:ALA:HA	2.12	0.50
44:TI:215:ARG:HG2	44:TI:216:ASN:OD1	2.11	0.50
44:TI:256:GLN:HE22	44:TI:260:VAL:HG21	1.77	0.50
44:TI:402:ARG:HB3	44:TI:405:VAL:HB	1.92	0.50
45:TJ:323:THR:O	45:TJ:326:VAL:HB	2.11	0.50
44:TK:137:VAL:HG22	44:TK:167:LEU:O	2.11	0.50
45:TL:99:ASN:HA	45:TL:142:GLY:H	1.76	0.50
45:TL:100:ASN:HD21	45:TL:102:ALA:HB3	1.75	0.50
44:TM:64:ARG:HH11	44:TM:64:ARG:HG2	1.76	0.50
44:TM:141:VAL:CG1	44:TM:173:PRO:HD3	2.40	0.50
44:TM:329:ASN:HA	44:TM:332:ILE:CG1	2.40	0.50
45:TN:217:LEU:HD11	45:TN:220:PRO:CG	2.40	0.50
45:TN:309:ARG:HD2	45:TN:342:VAL:CA	2.35	0.50
44:UA:34:GLY:HA3	44:UA:60:LYS:HE2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:52:ASN:HB2	45:UB:60:VAL:CG1	2.39	0.50
44:UC:390:ARG:HG3	44:UC:391:LEU:N	2.26	0.50
45:UD:2:ARG:HH22	44:UE:71:GLU:CG	2.23	0.50
44:UE:104:ALA:O	44:UE:108:TYR:N	2.44	0.50
44:UE:212:ILE:HD13	44:UE:215:ARG:NH2	2.26	0.50
44:UE:288:VAL:HB	44:UE:373:ARG:NH1	2.26	0.50
45:UF:132:GLY:HA2	45:UF:163:ILE:O	2.11	0.50
44:UG:291:ILE:HG13	44:UG:292:THR:N	2.26	0.50
45:UH:215:LEU:O	45:UH:275:SER:HA	2.11	0.50
44:UI:99:ALA:HB3	44:UI:145:THR:HB	1.93	0.50
44:UI:246:GLY:HA2	44:UI:357:TYR:CD2	2.47	0.50
44:UI:251:ASP:OD2	44:UI:253:THR:HG22	2.11	0.50
45:UJ:306:ARG:HG3	45:UJ:307:HIS:HD2	1.76	0.50
45:UJ:323:THR:O	45:UJ:326:VAL:HB	2.12	0.50
45:UJ:346:PRO:HD2	44:UK:398:MET:HE3	1.93	0.50
45:UL:7:ILE:HB	45:UL:135:ILE:HD11	1.92	0.50
45:UL:382:ALA:O	45:UL:385:PHE:HB3	2.12	0.50
45:UN:211:CYS:O	45:UN:215:LEU:HB2	2.12	0.50
44:VA:252:ILE:HD12	44:VA:255:PHE:CD2	2.46	0.50
44:VA:305:CYS:SG	44:VA:383:ALA:HB3	2.51	0.50
45:VB:72:THR:HG23	45:VB:73:MET:N	2.26	0.50
45:VB:325:GLU:O	45:VB:329:GLN:HG2	2.11	0.50
44:VC:206:ASN:OD1	44:VC:207:GLU:N	2.44	0.50
45:VD:68:LEU:HG	45:VD:96:GLY:N	2.24	0.50
44:VE:63:PRO:HG2	44:VE:86:LEU:CG	2.36	0.50
44:VE:88:HIS:ND1	44:VE:89:PRO:HD2	2.26	0.50
44:VE:439:THR:HG21	45:VH:390:ARG:HD2	1.92	0.50
45:VF:172:SER:OG	45:VF:173:PRO:HD2	2.12	0.50
44:VG:2:ARG:HD2	44:VG:242:LEU:O	2.11	0.50
44:VG:70:LEU:HD11	44:VG:149:LEU:HD21	1.92	0.50
44:VG:175:PRO:HB3	44:VG:390:ARG:HD3	1.92	0.50
44:VG:242:LEU:HD11	44:VG:252:ILE:HD11	1.92	0.50
45:VH:286:VAL:HB	45:VH:325:GLU:OE1	2.12	0.50
45:VH:323:THR:O	45:VH:326:VAL:N	2.45	0.50
44:VI:101:ASN:HA	44:VI:144:GLY:HA3	1.92	0.50
44:VI:329:ASN:ND2	45:VL:175:VAL:HG11	2.26	0.50
44:VM:70:LEU:HD13	44:VM:110:ILE:HD12	1.92	0.50
44:VM:314:ALA:O	44:VM:379:SER:HA	2.11	0.50
44:VM:407:TRP:CH2	45:VN:255:VAL:HA	2.46	0.50
45:VN:127:CYS:SG	45:VN:130:LEU:HD13	2.51	0.50
44:WA:9:VAL:CG1	44:WA:139:ASN:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WA:344:VAL:HG22	44:WA:345:ASP:H	1.76	0.50
45:WB:42:LEU:HD12	45:WB:42:LEU:H	1.76	0.50
45:WB:173:PRO:CD	45:WB:380:ARG:HD3	2.41	0.50
44:WC:69:ASP:HB3	44:WC:75:ILE:CG1	2.40	0.50
45:WF:170:VAL:HG22	45:WF:171:PRO:HD2	1.93	0.50
44:WG:202:VAL:HG22	44:WG:268:MET:SD	2.50	0.50
45:WH:153:SER:HA	45:WH:195:ASN:HD22	1.76	0.50
44:WK:23:LEU:CD2	44:WK:236:SER:HB3	2.40	0.50
44:WK:149:LEU:HD13	44:WK:152:LEU:HD23	1.92	0.50
44:WK:176:GLN:OE1	44:WK:176:GLN:N	2.43	0.50
44:WK:181:VAL:HG22	45:WL:256:ASN:CG	2.32	0.50
45:WL:326:VAL:O	45:WL:330:MET:HG2	2.11	0.50
44:WM:3:GLU:H	44:WM:131:GLY:C	2.12	0.50
44:WM:276:ILE:HG23	44:WM:281:ALA:CB	2.41	0.50
44:WM:324:VAL:CG1	44:WM:326:LYS:HG3	2.41	0.50
45:WN:5:VAL:HG21	45:WN:133:PHE:CD2	2.45	0.50
45:WN:130:LEU:HD21	45:WN:133:PHE:CE1	2.45	0.50
3:OB:240:TRP:CE3	45:JL:215:LEU:HD21	2.46	0.50
6:OE:118:ARG:HH21	35:7R:534:HIS:CE1	2.28	0.50
16:OX:2:LYS:HB3	45:MD:75:SER:HB3	1.91	0.50
4:1C:75:LEU:HD21	45:EL:362:LYS:CD	2.41	0.50
22:1L:751:ARG:HH11	45:BD:359:LYS:HA	1.76	0.50
32:2I:78:PRO:HD3	44:FE:123:ARG:NH1	2.27	0.50
22:2L:526:ARG:HD3	45:BN:362:LYS:HZ3	1.74	0.50
22:2L:826:LYS:HE2	35:5R:175:GLU:O	2.10	0.50
10:2N:161:LYS:HG3	45:KB:276:ARG:HH21	1.75	0.50
22:3L:62:THR:HB	44:BA:279:GLU:OE2	2.10	0.50
26:3R:407:PHE:CD2	44:DK:58:ALA:HB3	2.45	0.50
26:3R:447:GLN:HE22	44:EK:46:ASP:HB2	1.75	0.50
15:3V:96:ASN:HB3	45:LB:262:ARG:HG3	1.92	0.50
35:4R:175:GLU:HG2	45:AH:32:PRO:HG2	1.91	0.50
35:4R:245:LEU:CG	44:BE:58:ALA:HB3	2.41	0.50
37:5D:118:PRO:CA	44:NM:325:PRO:HD3	2.39	0.50
38:5F:54:LYS:HG3	45:OF:227:HIS:NE2	2.25	0.50
38:5H:60:TRP:CB	45:ON:361:LEU:HD21	2.42	0.50
38:5H:78:LEU:HA	38:5H:81:MET:SD	2.52	0.50
39:5I:77:LYS:O	39:5I:81:LEU:HD23	2.12	0.50
39:5I:83:ASP:O	39:5I:86:LYS:HB2	2.11	0.50
39:5J:85:LEU:O	39:5J:88:PRO:HD2	2.12	0.50
35:5R:552:LEU:HD13	35:5R:576:LEU:HD22	1.93	0.50
11:6Q:48:GLU:CG	11:6Q:161:ARG:HG2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6Q:77:VAL:HG11	11:6Q:166:TYR:CE2	2.46	0.50
35:7R:578:TYR:CD2	35:7R:580:LEU:HG	2.46	0.50
44:AA:149:LEU:O	44:AA:153:LEU:HD13	2.11	0.50
44:AA:175:PRO:HD2	44:AA:207:GLU:OE1	2.10	0.50
44:AE:172:TYR:HD1	44:AE:173:PRO:HD2	1.76	0.50
44:AI:6:SER:O	44:AI:7:ILE:HD13	2.11	0.50
44:AI:222:PRO:CD	45:AJ:324:LYS:HD3	2.41	0.50
44:AI:233:GLN:OE1	44:AI:233:GLN:HA	2.12	0.50
45:AJ:178:THR:CB	45:AJ:181:GLU:HG3	2.33	0.50
44:AK:22:GLU:HG3	44:AK:83:TYR:HE2	1.75	0.50
45:AL:3:GLU:HB3	45:AL:49:VAL:HA	1.92	0.50
45:AL:143:THR:HG23	45:AL:144:GLY:N	2.26	0.50
45:AL:325:GLU:O	45:AL:329:GLN:HG2	2.12	0.50
44:AM:208:ALA:O	44:AM:212:ILE:HG12	2.12	0.50
44:BA:287:SER:O	44:BA:290:GLU:HG2	2.11	0.50
44:BC:224:TYR:CZ	45:BD:246:LEU:HD11	2.47	0.50
45:BD:4:ILE:HD12	45:BD:134:GLN:CD	2.31	0.50
45:BD:101:TRP:CE3	45:BD:187:LEU:HD13	2.41	0.50
44:BE:11:GLN:HB2	46:BE:501:GTP:O1B	2.11	0.50
44:BE:297:GLU:OE1	44:BE:299:ALA:HB3	2.12	0.50
44:BI:6:SER:O	44:BI:7:ILE:HD13	2.11	0.50
44:BI:295:ALA:HB1	44:BI:377:MET:SD	2.51	0.50
44:BK:407:TRP:CE3	45:BL:255:VAL:HA	2.46	0.50
45:BL:282:ARG:HG3	45:BL:283:ALA:N	2.25	0.50
45:BL:388:MET:HA	45:BL:388:MET:CE	2.41	0.50
44:BM:2:ARG:HG3	44:BM:2:ARG:HH11	1.76	0.50
44:BM:327:ASP:O	44:BM:331:SER:N	2.44	0.50
45:CB:114:ASP:N	45:CB:114:ASP:OD1	2.41	0.50
45:CB:169:VAL:HG22	45:CB:202:ILE:CG2	2.41	0.50
44:CC:437:ILE:HG13	44:CC:437:ILE:O	2.11	0.50
45:CD:4:ILE:HG22	45:CD:132:GLY:N	2.27	0.50
45:CD:105:HIS:CG	45:CD:150:LEU:HD12	2.45	0.50
44:CE:55:GLU:HG3	44:CE:57:GLY:N	2.23	0.50
44:CE:166:LYS:HZ1	44:CE:198:THR:HA	1.73	0.50
44:CG:252:ILE:HA	44:CG:255:PHE:CD2	2.47	0.50
44:CG:296:PHE:CD2	44:CG:335:ILE:HG12	2.46	0.50
45:CH:69:GLU:OE2	45:CH:72:THR:OG1	2.14	0.50
44:CI:202:VAL:HG22	44:CI:268:MET:O	2.11	0.50
45:CJ:214:THR:O	45:CJ:275:SER:HB3	2.11	0.50
45:CJ:255:VAL:HA	44:CK:407:TRP:CZ3	2.46	0.50
45:CL:100:ASN:HD22	45:CL:103:LYS:CB	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:181:GLU:N	45:CL:182:PRO:CD	2.75	0.50
45:CL:268:ILE:HG22	45:CL:368:VAL:HG12	1.92	0.50
44:CM:175:PRO:HD2	44:CM:207:GLU:OE1	2.12	0.50
45:CN:150:LEU:CD2	45:CN:154:LYS:HE2	2.40	0.50
44:DA:292:THR:HG21	44:DA:331:SER:OG	2.11	0.50
44:DA:437:ILE:O	44:DA:437:ILE:HG13	2.12	0.50
45:DB:115:SER:O	45:DB:118:ASP:HB3	2.12	0.50
45:DB:295:ASP:OD2	45:DB:297:LYS:HG2	2.11	0.50
44:DE:145:THR:HG22	46:DE:501:GTP:PG	2.52	0.50
44:DE:167:LEU:HD11	44:DE:252:ILE:HD11	1.93	0.50
45:DF:186:THR:O	45:DF:189:VAL:HG12	2.11	0.50
44:DG:424:ASP:O	44:DG:428:LEU:HD22	2.11	0.50
45:DH:317:PHE:CE2	45:DH:326:VAL:HG22	2.46	0.50
44:DI:11:GLN:HA	44:DI:14:ILE:CD1	2.29	0.50
44:DI:22:GLU:HG3	44:DI:83:TYR:CE2	2.46	0.50
45:DJ:322:SER:OG	45:DJ:325:GLU:HG2	2.11	0.50
45:DJ:324:LYS:HD3	44:DK:222:PRO:CD	2.41	0.50
45:DL:318:ARG:HA	45:DL:354:CYS:SG	2.51	0.50
44:DM:288:VAL:HG13	44:DM:289:ALA:H	1.76	0.50
44:DM:313:MET:HE3	44:DM:381:SER:CA	2.42	0.50
44:EA:63:PRO:HG3	44:EA:86:LEU:CG	2.33	0.50
44:EA:310:GLY:HA3	44:EA:383:ALA:CB	2.38	0.50
45:EB:316:LEU:N	45:EB:366:THR:O	2.43	0.50
44:EC:230:LEU:O	44:EC:233:GLN:HB2	2.10	0.50
44:EC:430:LYS:HA	44:EC:433:GLU:CG	2.41	0.50
44:EE:208:ALA:HA	44:EE:304:LYS:CE	2.41	0.50
44:EE:311:LYS:HB3	44:EE:343:PHE:C	2.32	0.50
44:EE:348:PRO:CB	45:EF:384:GLN:HG2	2.40	0.50
44:EG:137:VAL:N	44:EG:167:LEU:O	2.37	0.50
44:EG:183:GLU:CD	44:EG:184:PRO:HD3	2.31	0.50
44:EG:246:GLY:HA3	44:EG:249:ASN:OD1	2.11	0.50
45:EH:248:SER:HA	45:EH:252:LYS:HD2	1.92	0.50
45:EH:376:GLU:O	45:EH:380:ARG:HG2	2.10	0.50
44:EI:66:VAL:O	44:EI:66:VAL:HG23	2.12	0.50
44:EI:306:ASP:OD2	44:EI:309:HIS:NE2	2.45	0.50
44:EI:405:VAL:O	44:EI:409:VAL:HG23	2.11	0.50
45:EJ:240:LEU:HD13	45:EJ:250:LEU:HD23	1.93	0.50
45:EL:68:LEU:HD21	45:EL:147:MET:HE3	1.93	0.50
45:EL:178:THR:O	45:EL:181:GLU:HG3	2.11	0.50
44:EM:179:THR:HG21	46:EM:501:GTP:O3'	2.11	0.50
44:EM:296:PHE:CE2	44:EM:335:ILE:HG21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:72:THR:HA	45:EN:75:SER:OG	2.11	0.50
45:EN:319:GLY:N	45:EN:354:CYS:O	2.44	0.50
44:FA:144:GLY:N	46:FA:501:GTP:O1G	2.44	0.50
44:FA:265:ILE:O	44:FA:265:ILE:HG23	2.11	0.50
44:FA:294:SER:O	44:FA:297:GLU:HG3	2.11	0.50
45:FB:3:GLU:HB3	45:FB:49:VAL:HA	1.91	0.50
45:FB:155:VAL:O	45:FB:159:TYR:N	2.44	0.50
45:FB:420:SER:HA	45:FB:423:GLN:CG	2.39	0.50
44:FC:79:ARG:CG	44:FC:92:LEU:HD22	2.41	0.50
44:FC:96:LYS:CB	45:FD:1:MET:HE1	2.37	0.50
44:FC:363:VAL:O	44:FC:364:PRO:C	2.50	0.50
44:FE:36:MET:CE	44:FE:37:PRO:HD2	2.41	0.50
44:FG:311:LYS:H	44:FG:382:THR:HG1	1.53	0.50
44:FI:1:MET:HE2	45:FL:94:GLN:NE2	2.26	0.50
44:FI:188:ILE:HG13	44:FI:425:LEU:CD1	2.40	0.50
44:FK:291:ILE:HD12	44:FK:375:VAL:CB	2.35	0.50
45:FL:3:GLU:OE1	45:FL:3:GLU:N	2.44	0.50
45:FL:375:GLN:HG3	45:FL:376:GLU:N	2.27	0.50
45:FL:398:TYR:O	45:FL:403:MET:HB3	2.10	0.50
44:FM:149:LEU:CD1	44:FM:152:LEU:HD23	2.36	0.50
44:GA:141:VAL:HG23	44:GA:190:SER:OG	2.11	0.50
44:GA:200:VAL:HG23	44:GA:256:GLN:HG2	1.94	0.50
44:GA:311:LYS:HZ3	44:GA:343:PHE:HA	1.76	0.50
45:GB:420:SER:HA	45:GB:423:GLN:HG3	1.94	0.50
44:GC:99:ALA:HB3	44:GC:145:THR:HG22	1.94	0.50
45:GD:316:LEU:N	45:GD:366:THR:O	2.43	0.50
44:GE:34:GLY:O	44:GE:60:LYS:HB2	2.12	0.50
45:GF:344:TRP:CZ3	45:GF:345:ILE:HB	2.46	0.50
44:GG:16:VAL:HA	44:GG:228:ASN:ND2	2.27	0.50
44:GG:17:GLY:HA2	44:GG:20:CYS:SG	2.51	0.50
44:GG:109:THR:OG1	44:GG:411:GLU:HB3	2.11	0.50
45:GH:251:ARG:HH11	45:GH:251:ARG:HG3	1.76	0.50
44:GI:3:GLU:HA	44:GI:51:THR:CG2	2.40	0.50
44:GI:306:ASP:OD1	44:GI:308:ARG:NH2	2.42	0.50
44:GK:31:GLN:OE1	44:GK:36:MET:HA	2.10	0.50
45:GL:101:TRP:HZ3	45:GL:187:LEU:CB	2.16	0.50
45:GL:101:TRP:CD1	45:GL:105:HIS:HB2	2.47	0.50
44:GM:167:LEU:HD11	44:GM:252:ILE:HG21	1.94	0.50
44:GM:195:LEU:HA	44:GM:266:HIS:CE1	2.46	0.50
44:GM:280:LYS:HE2	44:GM:283:HIS:NE2	2.25	0.50
45:GN:20:PHE:O	45:GN:24:ILE:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:67:ASP:OD1	45:GN:68:LEU:N	2.43	0.50
45:GN:112:LEU:O	45:GN:112:LEU:HD23	2.11	0.50
45:GN:216:LYS:CG	45:GN:275:SER:HB3	2.41	0.50
44:HA:278:ALA:CA	44:HA:369:ALA:HB2	2.42	0.50
44:HA:297:GLU:CD	44:HA:299:ALA:H	2.14	0.50
45:HD:114:ASP:OD1	45:HD:115:SER:N	2.44	0.50
44:HE:51:THR:HG21	44:HE:243:ARG:HB3	1.93	0.50
44:HG:12:GLY:O	44:HG:16:VAL:HG12	2.12	0.50
45:HH:131:GLN:C	45:HH:162:ARG:HD3	2.30	0.50
45:HH:139:LEU:CD1	45:HH:168:SER:HB3	2.41	0.50
45:HH:256:ASN:CB	45:HH:350:LYS:HD2	2.42	0.50
45:HH:298:ASN:O	45:HH:300:MET:HE2	2.10	0.50
44:HI:203:MET:CG	44:HI:384:ILE:HD11	2.41	0.50
45:HJ:130:LEU:HD21	45:HJ:133:PHE:CZ	2.47	0.50
44:HK:322:ASP:CG	44:HK:373:ARG:HE	2.12	0.50
44:IA:212:ILE:HD13	44:IA:215:ARG:NH2	2.26	0.50
44:IA:291:ILE:HG13	44:IA:292:THR:N	2.26	0.50
45:IB:131:GLN:O	45:IB:163:ILE:HG12	2.11	0.50
44:IE:356:ASN:OD1	44:IE:357:TYR:N	2.42	0.50
45:IF:61:PRO:CD	45:IF:84:LEU:HB3	2.41	0.50
44:IG:200:VAL:HG13	44:IG:268:MET:HE2	1.94	0.50
44:IG:224:TYR:CZ	45:IH:323:THR:HG21	2.46	0.50
44:IG:270:SER:CB	44:IG:378:ILE:HG22	2.41	0.50
45:IH:101:TRP:HE3	45:IH:187:LEU:HD13	1.76	0.50
45:IJ:133:PHE:HE2	45:IJ:155:VAL:CG1	2.24	0.50
45:IJ:376:GLU:CG	45:IJ:380:ARG:HH21	2.25	0.50
44:IK:68:LEU:CD1	44:IK:93:ILE:HB	2.41	0.50
44:IK:176:GLN:HG2	44:IK:177:VAL:N	2.26	0.50
44:IM:326:LYS:HD2	44:IM:327:ASP:N	2.25	0.50
45:IN:172:SER:OG	45:IN:173:PRO:HD2	2.11	0.50
44:JA:381:SER:O	44:JA:384:ILE:HG12	2.11	0.50
45:JB:363:MET:HA	45:JB:363:MET:HE3	1.92	0.50
44:JC:7:ILE:HA	44:JC:66:VAL:CG1	2.41	0.50
44:JC:177:VAL:HG23	45:JD:327:ASP:HB3	1.93	0.50
44:JC:393:HIS:CD2	44:JC:397:LEU:HD11	2.47	0.50
45:JH:30:ILE:HD12	45:JH:51:TYR:CD2	2.46	0.50
45:JJ:292:GLN:O	45:JJ:292:GLN:HG2	2.10	0.50
45:JJ:407:GLU:O	45:JJ:411:ALA:N	2.24	0.50
44:JM:88:HIS:CD2	44:KM:283:HIS:HB2	2.47	0.50
44:KA:219:ILE:HD11	44:KA:367:ASP:OD1	2.11	0.50
44:KA:259:LEU:HD21	44:KA:316:SER:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:382:ALA:O	45:KB:386:THR:HG22	2.10	0.50
44:KC:2:ARG:HH21	45:KF:70:PRO:HD2	1.77	0.50
44:KC:224:TYR:CE1	45:KD:323:THR:HG21	2.47	0.50
45:KD:289:LEU:HG	45:KD:363:MET:SD	2.51	0.50
44:KE:175:PRO:HB2	44:KE:390:ARG:NH2	2.26	0.50
45:KF:144:GLY:N	48:KF:502:GDP:O1B	2.41	0.50
45:KF:178:THR:CG2	45:KF:180:VAL:HG12	2.41	0.50
44:KG:119:LEU:O	44:KG:122:ILE:HG22	2.10	0.50
45:KJ:101:TRP:HB3	45:KJ:398:TYR:HE2	1.77	0.50
45:KJ:272:PRO:CD	45:KJ:289:LEU:HD23	2.39	0.50
44:KK:11:GLN:OE1	44:KK:74:VAL:HG11	2.11	0.50
45:KN:248:SER:HB2	45:KN:252:LYS:HD2	1.93	0.50
45:KN:287:PRO:HD2	45:KN:288:GLU:H	1.76	0.50
45:LB:139:LEU:CD1	45:LB:168:SER:HB3	2.40	0.50
45:LB:410:GLU:O	45:LB:413:SER:HB3	2.11	0.50
44:LC:150:GLY:HA2	44:LC:153:LEU:HB2	1.92	0.50
45:LD:292:GLN:HE22	45:LD:298:ASN:ND2	2.08	0.50
45:LF:49:VAL:HG11	45:LF:241:ARG:HG3	1.93	0.50
45:LF:107:THR:HG23	45:LF:108:GLU:N	2.26	0.50
44:LG:425:LEU:O	44:LG:429:GLU:HG3	2.11	0.50
45:LH:9:GLY:O	45:LH:13:GLY:HA3	2.12	0.50
45:LH:263:LEU:HD23	45:LH:422:TYR:CE1	2.47	0.50
44:LI:273:ALA:HB1	44:LI:274:PRO:HA	1.92	0.50
44:LK:181:VAL:HG13	44:LK:182:VAL:HG13	1.94	0.50
45:LL:130:LEU:HD21	45:LL:133:PHE:CZ	2.47	0.50
44:LM:200:VAL:HG13	44:LM:268:MET:CE	2.42	0.50
44:MA:322:ASP:OD1	44:MA:373:ARG:NH1	2.45	0.50
45:MB:52:ASN:ND2	45:MB:123:GLU:OE2	2.44	0.50
44:MC:3:GLU:CD	44:MC:129:CYS:HB3	2.32	0.50
44:MC:145:THR:HG22	46:MC:501:GTP:PG	2.51	0.50
45:MD:304:ASP:CG	45:MD:306:ARG:HG2	2.32	0.50
44:ME:7:ILE:HD12	44:ME:66:VAL:HG22	1.92	0.50
44:ME:328:VAL:O	44:ME:332:ILE:HG12	2.11	0.50
45:MJ:167:PHE:HE2	45:MJ:233:MET:HG2	1.74	0.50
45:MJ:395:LEU:HG	45:MJ:399:THR:CG2	2.41	0.50
44:MK:222:PRO:HD2	45:ML:324:LYS:HD3	1.93	0.50
44:MK:265:ILE:HG22	44:MK:380:ASN:HD21	1.76	0.50
45:ML:116:VAL:O	45:ML:119:VAL:HG22	2.10	0.50
44:MM:230:LEU:HD11	44:MM:368:LEU:HD21	1.92	0.50
44:MM:247:ALA:HB2	44:MM:357:TYR:OH	2.12	0.50
45:MN:12:CYS:HB2	48:MN:502:GDP:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:371:SER:O	45:NB:374:ILE:HG22	2.10	0.50
44:NC:101:ASN:HB3	44:NC:182:VAL:CG2	2.41	0.50
44:NC:145:THR:HG22	46:NC:501:GTP:O3B	2.11	0.50
44:NC:188:ILE:HA	44:NC:425:LEU:HD11	1.93	0.50
45:ND:191:GLN:O	45:ND:195:ASN:ND2	2.42	0.50
45:NF:8:GLN:HE21	45:NF:65:LEU:HG	1.76	0.50
45:NF:86:ARG:HG3	45:NF:89:ASN:H	1.77	0.50
45:NH:54:ALA:HA	45:OH:283:ALA:CB	2.24	0.50
45:NH:387:ALA:HA	45:NH:390:ARG:NH1	2.26	0.50
44:NI:51:THR:HG21	44:NI:243:ARG:HB3	1.93	0.50
44:NI:91:GLN:HA	44:NI:121:ARG:HH11	1.77	0.50
44:NI:123:ARG:NH2	44:OI:293:ASN:OD1	2.38	0.50
45:NL:15:GLN:O	45:NL:18:ALA:HB3	2.11	0.50
45:NL:166:THR:HG22	45:NL:199:CYS:HA	1.93	0.50
44:NM:3:GLU:HG2	44:NM:64:ARG:NH2	2.25	0.50
44:OA:2:ARG:HH22	45:OD:71:GLY:N	2.10	0.50
44:OA:93:ILE:HD12	44:OA:93:ILE:H	1.77	0.50
44:OA:226:ASN:O	44:OA:229:ARG:HB2	2.11	0.50
44:OA:393:HIS:O	44:OA:397:LEU:HB2	2.10	0.50
45:OB:104:GLY:O	45:OB:147:MET:HE3	2.10	0.50
44:OC:276:ILE:CG2	44:OC:280:LYS:HB2	2.42	0.50
45:OD:256:ASN:C	45:OD:257:LEU:HD12	2.32	0.50
45:OF:135:ILE:HG21	45:OF:152:ILE:HD11	1.92	0.50
44:OG:319:TYR:HA	44:OG:375:VAL:HG12	1.93	0.50
45:OH:66:MET:HG2	45:OH:116:VAL:HG21	1.94	0.50
45:OJ:237:THR:HG1	45:OJ:240:LEU:HB3	1.76	0.50
45:OJ:293:MET:HG2	45:OJ:367:PHE:HB2	1.93	0.50
45:OL:20:PHE:CD1	45:OL:233:MET:HE2	2.46	0.50
44:OM:34:GLY:O	44:OM:60:LYS:HA	2.11	0.50
45:ON:178:THR:HG22	45:ON:179:VAL:N	2.26	0.50
45:ON:270:PHE:HE2	45:ON:273:LEU:HD21	1.76	0.50
44:PA:387:VAL:O	44:PA:391:LEU:HD13	2.12	0.50
45:PD:68:LEU:HB3	45:PD:96:GLY:HA2	1.93	0.50
45:PD:172:SER:OG	45:PD:175:VAL:HG22	2.11	0.50
44:PE:60:LYS:HE3	44:QE:283:HIS:ND1	2.27	0.50
44:PE:212:ILE:CD1	44:PE:215:ARG:HH22	2.24	0.50
45:PF:19:LYS:CG	45:PF:230:SER:HB3	2.38	0.50
45:PF:323:THR:O	45:PF:327:ASP:N	2.25	0.50
45:PF:399:THR:HA	45:PF:403:MET:O	2.12	0.50
44:PG:48:ALA:HB1	44:PG:243:ARG:HB2	1.92	0.50
45:PH:304:ASP:HB3	45:PH:307:HIS:CG	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PI:221:ARG:HH2	45:PJ:286:VAL:CG2	2.24	0.50
45:PJ:101:TRP:CE2	45:PJ:187:LEU:HB3	2.46	0.50
45:PJ:238:CYS:HB2	45:PJ:318:ARG:NH2	2.26	0.50
44:PK:88:HIS:HB3	44:PK:91:GLN:HG2	1.93	0.50
44:PM:12:GLY:O	44:PM:16:VAL:HG12	2.12	0.50
44:PM:72:PRO:HG3	44:PM:95:GLY:O	2.12	0.50
45:PN:110:ALA:HA	45:PN:113:ILE:HG22	1.92	0.50
45:PN:134:GLN:HA	45:PN:165:GLU:O	2.11	0.50
45:PN:173:PRO:CG	45:PN:380:ARG:HD3	2.41	0.50
45:PN:178:THR:CG2	45:PN:180:VAL:HG12	2.40	0.50
45:PN:211:CYS:SG	45:PN:228:LEU:HD11	2.52	0.50
44:QA:352:LYS:HG2	45:QB:179:VAL:HG13	1.93	0.50
45:QB:167:PHE:HE2	45:QB:233:MET:HG3	1.76	0.50
44:QC:167:LEU:HG	44:QC:200:VAL:HB	1.93	0.50
44:QE:54:SER:HB3	44:QE:64:ARG:NH2	2.05	0.50
44:QG:319:TYR:HD2	44:QG:323:VAL:HG11	1.76	0.50
45:QH:314:SER:OG	45:QH:350:LYS:HG3	2.11	0.50
45:QH:382:ALA:HB2	45:QH:415:MET:CE	2.41	0.50
44:QI:203:MET:HE3	44:QI:203:MET:CA	2.37	0.50
44:QI:268:MET:HB2	44:QI:380:ASN:CA	2.40	0.50
44:QK:33:ASP:HB3	44:QK:35:GLN:NE2	2.22	0.50
45:QL:189:VAL:HG11	45:QL:415:MET:CG	2.40	0.50
45:QN:188:SER:O	45:QN:192:LEU:HB2	2.11	0.50
44:RA:185:TYR:HB2	44:RA:408:TYR:HE2	1.76	0.50
45:RB:269:GLY:O	45:RB:367:PHE:HB3	2.11	0.50
45:RB:285:THR:OG1	45:RB:288:GLU:HG2	2.11	0.50
45:RD:101:TRP:NE1	45:RD:146:GLY:HA2	2.27	0.50
45:RH:122:LYS:O	45:RH:126:GLY:N	2.35	0.50
45:RH:265:PHE:HB2	45:RH:374:ILE:CD1	2.41	0.50
44:RK:277:SER:O	44:RK:281:ALA:HB2	2.10	0.50
45:RL:156:ARG:NH1	45:RL:162:ARG:O	2.44	0.50
45:RL:382:ALA:O	45:RL:386:THR:HG23	2.12	0.50
45:RN:133:PHE:HB2	45:RN:164:MET:CG	2.35	0.50
44:SA:112:LYS:HA	44:SA:115:VAL:CG1	2.42	0.50
45:SB:91:VAL:HG21	45:SB:116:VAL:HG21	1.92	0.50
44:SC:334:THR:C	44:SC:338:LYS:HZ3	2.15	0.50
45:SD:97:ALA:O	45:SD:103:LYS:HD2	2.11	0.50
45:SD:186:THR:HG23	45:SD:415:MET:SD	2.52	0.50
45:SD:317:PHE:CE2	45:SD:326:VAL:HG13	2.46	0.50
44:SE:230:LEU:CD1	44:SE:368:LEU:HD21	2.41	0.50
44:SE:423:GLU:O	44:SE:426:ALA:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:271:SER:OG	44:SG:301:MET:HG3	2.11	0.50
45:SH:299:MET:HG3	45:SH:305:PRO:HG2	1.94	0.50
44:SI:141:VAL:CG1	44:SI:187:SER:HA	2.41	0.50
44:SI:307:PRO:HA	44:SI:383:ALA:HB2	1.92	0.50
45:SJ:73:MET:O	45:SJ:76:VAL:HG22	2.11	0.50
44:SK:89:PRO:HG2	44:TK:280:LYS:HB3	1.93	0.50
45:SL:117:LEU:O	45:SL:121:ARG:N	2.39	0.50
45:SL:135:ILE:CG2	45:SL:152:ILE:HD11	2.26	0.50
45:SL:303:ALA:HB2	45:SL:377:MET:HE2	1.94	0.50
44:SM:241:SER:HB2	44:SM:249:ASN:CA	2.40	0.50
44:SM:401:LYS:O	44:SM:402:ARG:HG2	2.11	0.50
45:SN:318:ARG:HB2	45:SN:364:ALA:HB3	1.94	0.50
44:TA:11:GLN:HB3	46:TA:501:GTP:PA	2.51	0.50
44:TA:63:PRO:CG	44:TA:86:LEU:HG	2.42	0.50
44:TA:241:SER:OG	44:TA:250:VAL:O	2.19	0.50
45:TB:70:PRO:HG3	45:TB:92:PHE:CD1	2.47	0.50
45:TD:252:LYS:HG3	44:TE:101:ASN:HD21	1.76	0.50
45:TD:309:ARG:NH2	45:TD:426:GLN:O	2.44	0.50
44:TE:259:LEU:HD21	44:TE:316:SER:HB2	1.93	0.50
45:TF:159:TYR:HD2	45:TF:162:ARG:HG3	1.75	0.50
44:TI:192:HIS:CD2	44:TI:421:ALA:HA	2.46	0.50
45:TJ:67:ASP:OD1	45:TJ:68:LEU:N	2.43	0.50
45:TL:170:VAL:CG2	45:TL:171:PRO:HD2	2.42	0.50
44:TM:372:MET:HG3	44:TM:373:ARG:CZ	2.41	0.50
44:UA:75:ILE:HG13	44:UA:94:SER:CB	2.41	0.50
44:UA:98:ASP:OD1	44:UA:99:ALA:N	2.45	0.50
44:UA:186:ASN:OD1	44:UA:187:SER:N	2.44	0.50
44:UE:325:PRO:HB3	45:UF:222:TYR:OH	2.10	0.50
44:UE:363:VAL:CG2	44:UE:364:PRO:HD2	2.41	0.50
45:UF:22:GLU:HG3	45:UF:23:VAL:N	2.26	0.50
44:UG:63:PRO:HG2	44:UG:86:LEU:HG	1.92	0.50
44:UG:187:SER:HA	44:UG:190:SER:OG	2.12	0.50
45:UH:12:CYS:O	45:UH:16:ILE:HG12	2.11	0.50
44:UI:189:LEU:HD23	44:UI:421:ALA:HB2	1.94	0.50
44:UI:319:TYR:CE2	44:UI:328:VAL:HG22	2.47	0.50
44:UK:216:ASN:CB	44:UK:275:ILE:HG13	2.41	0.50
44:UK:423:GLU:O	44:UK:427:ALA:N	2.30	0.50
45:UL:72:THR:O	45:UL:75:SER:OG	2.14	0.50
45:UL:176:SER:HB2	45:UL:181:GLU:CD	2.32	0.50
44:UM:348:PRO:HD2	45:UN:388:MET:SD	2.51	0.50
45:UN:12:CYS:HB3	45:UN:138:SER:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UN:244:GLY:HA2	45:UN:355:ASP:OD2	2.11	0.50
44:VA:7:ILE:HG23	44:VA:66:VAL:HG11	1.92	0.50
44:VA:123:ARG:O	44:VA:126:ALA:HB3	2.11	0.50
45:VB:4:ILE:HG13	45:VB:5:VAL:N	2.25	0.50
44:VC:68:LEU:HD22	44:VC:120:ASP:OD1	2.12	0.50
44:VC:175:PRO:HG2	44:VC:304:LYS:HG2	1.93	0.50
44:VC:259:LEU:HD11	44:VC:378:ILE:HG21	1.94	0.50
45:VD:286:VAL:HG21	45:VD:325:GLU:OE1	2.11	0.50
44:VI:291:ILE:HD13	44:VI:373:ARG:CB	2.34	0.50
45:VJ:166:THR:OG1	45:VJ:199:CYS:HA	2.10	0.50
45:VJ:241:ARG:HG2	45:VJ:242:PHE:CD1	2.46	0.50
45:VJ:327:ASP:O	45:VJ:330:MET:HB2	2.10	0.50
44:VK:9:VAL:O	44:VK:13:GLY:HA3	2.11	0.50
44:VK:288:VAL:HA	44:VK:291:ILE:CG1	2.41	0.50
45:VL:65:LEU:HD22	45:VL:90:PHE:HE1	1.75	0.50
45:VN:42:LEU:HG	45:VN:45:GLU:OE2	2.10	0.50
45:VN:318:ARG:HD3	45:VN:364:ALA:HB3	1.93	0.50
44:WC:88:HIS:ND1	44:WC:90:GLU:HG2	2.26	0.50
44:WC:115:VAL:HB	44:WC:152:LEU:CD2	2.42	0.50
44:WC:182:VAL:O	44:WC:182:VAL:HG22	2.12	0.50
45:WD:172:SER:HB2	45:WD:205:GLU:HB2	1.92	0.50
45:WD:300:MET:HG3	45:WD:300:MET:O	2.12	0.50
44:WE:100:ALA:O	45:WF:255:VAL:HG11	2.11	0.50
45:WH:12:CYS:O	45:WH:16:ILE:HD12	2.12	0.50
45:WH:235:GLY:HA3	45:WH:366:THR:HG21	1.93	0.50
45:WH:257:LEU:HD11	45:WH:314:SER:HB3	1.93	0.50
45:WH:268:ILE:O	45:WH:300:MET:HG2	2.11	0.50
45:WJ:323:THR:HG22	45:WJ:353:ILE:HG12	1.94	0.50
44:WK:313:MET:SD	44:WK:380:ASN:HB3	2.51	0.50
45:WL:212:PHE:CZ	45:WL:220:PRO:HG2	2.46	0.50
45:WL:417:ASP:HA	45:WL:420:SER:OG	2.11	0.50
44:WM:405:VAL:CG1	44:WM:409:VAL:HG23	2.38	0.50
45:WN:148:GLY:O	45:WN:152:ILE:HD12	2.11	0.50
45:WN:217:LEU:HD11	45:WN:220:PRO:CG	2.42	0.50
12:0S:111:LYS:HE2	45:MB:157:GLU:CG	2.34	0.50
2:1A:124:LEU:HD22	45:AF:279:GLN:CD	2.31	0.50
24:1O:239:ILE:HG21	45:UB:280:GLN:NE2	2.17	0.50
26:1R:458:ILE:HD11	45:FD:276:ARG:HB3	1.94	0.50
13:1T:128:GLU:HA	44:AC:339:ARG:NH2	2.08	0.50
29:2F:81:LYS:HZ1	45:GF:128:ASP:HA	1.77	0.50
26:2R:87:LEU:HD13	44:MG:85:GLN:OE1	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:2R:248:GLN:HG3	44:CG:372:MET:HE2	1.88	0.50
16:2X:79:ARG:HD2	35:5R:47:GLU:OE2	2.12	0.50
32:3I:260:MET:CG	45:GJ:336:LYS:HG3	2.42	0.50
11:5Q:29:ILE:HG13	11:5Q:49:ILE:HD11	1.93	0.50
35:5R:98:TYR:CD1	35:5R:204:VAL:HG23	2.46	0.50
35:5R:103:VAL:HG21	35:5R:106:ASN:HD22	1.76	0.50
35:5R:260:VAL:HG21	35:5R:276:LEU:HD12	1.93	0.50
35:5R:516:MET:HG3	35:5R:526:ALA:HB2	1.93	0.50
40:6F:113:PHE:CZ	45:IH:80:PRO:HB3	2.45	0.50
41:6G:174:GLN:HE21	44:VE:337:THR:CG2	2.24	0.50
11:6Q:30:ARG:HG3	11:6Q:30:ARG:NH1	2.27	0.50
11:6Q:68:THR:HG23	11:6Q:152:LEU:HA	1.94	0.50
35:6R:118:LEU:HD11	35:6R:129:VAL:HG23	1.81	0.50
35:7R:88:TYR:HB3	35:7R:122:LEU:HD23	1.93	0.50
35:7R:108:TYR:OH	45:BD:227:HIS:NE2	2.36	0.50
35:7R:230:GLU:CD	45:CB:218:THR:HG21	2.32	0.50
35:7R:564:ILE:HD11	35:7R:568:ASP:CB	2.42	0.50
44:AA:13:GLY:CA	44:AA:16:VAL:HG12	2.40	0.50
45:AB:7:ILE:HA	45:AB:64:ILE:O	2.11	0.50
44:AC:2:ARG:O	44:AC:51:THR:HA	2.12	0.50
44:AC:141:VAL:HG11	44:AC:172:TYR:HA	1.92	0.50
44:AE:171:ILE:HD13	46:AE:501:GTP:HN22	1.76	0.50
45:AF:113:ILE:HD11	45:AF:151:LEU:HA	1.94	0.50
45:AF:318:ARG:CZ	45:AF:358:PRO:CD	2.88	0.50
45:AH:66:MET:CE	45:AH:147:MET:HG2	2.40	0.50
45:AJ:317:PHE:O	45:AJ:318:ARG:HD2	2.11	0.50
44:AK:141:VAL:HG11	44:AK:172:TYR:CE1	2.47	0.50
45:AL:154:LYS:HE2	45:AL:154:LYS:HA	1.93	0.50
44:AM:270:SER:CB	44:AM:378:ILE:HD13	2.37	0.50
44:BA:115:VAL:HG22	44:BA:119:LEU:HD23	1.93	0.50
44:BA:230:LEU:CD1	44:BA:368:LEU:HD21	2.41	0.50
44:BA:356:ASN:OD1	44:BA:357:TYR:N	2.44	0.50
44:BC:70:LEU:HB3	44:BC:97:GLU:O	2.10	0.50
45:BD:268:ILE:HG22	45:BD:368:VAL:HG22	1.94	0.50
44:BG:340:THR:HG23	44:BG:341:ILE:CD1	2.37	0.50
45:BH:12:CYS:HB3	45:BH:138:SER:HB2	1.94	0.50
45:BH:150:LEU:HD21	45:BH:154:LYS:CE	2.41	0.50
44:BK:224:TYR:HE1	46:BK:501:GTP:C5	2.30	0.50
44:BK:230:LEU:HD12	44:BK:275:ILE:HD13	1.94	0.50
44:BK:248:LEU:HD23	44:BK:355:ILE:CD1	2.41	0.50
45:BL:131:GLN:NE2	45:BL:251:ARG:HG2	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:87:PHE:HB3	44:BM:92:LEU:HD11	1.93	0.50
44:CA:221:ARG:N	44:CA:222:PRO:HD3	2.27	0.50
44:CA:278:ALA:CB	44:CA:369:ALA:HB2	2.40	0.50
44:CA:428:LEU:HG	44:CA:432:TYR:CE2	2.47	0.50
45:CB:132:GLY:HA3	45:CB:163:ILE:CG1	2.41	0.50
44:CE:51:THR:HG22	44:CE:52:PHE:CD2	2.47	0.50
45:CF:81:PHE:CA	45:CF:84:LEU:HD13	2.42	0.50
45:CF:248:SER:CB	45:CF:252:LYS:HD2	2.41	0.50
44:CG:247:ALA:HB1	45:CH:222:TYR:CE2	2.47	0.50
45:CH:218:THR:HG23	45:CH:219:THR:N	2.26	0.50
44:CI:172:TYR:HB3	44:CI:173:PRO:HD2	1.93	0.50
44:CI:188:ILE:HG23	44:CI:189:LEU:HD22	1.93	0.50
45:CJ:60:VAL:HG11	45:CJ:86:ARG:HH21	1.74	0.50
45:CL:221:THR:H	45:CL:224:ASP:HB2	1.76	0.50
45:CL:242:PHE:HB3	45:CL:243:PRO:HD2	1.91	0.50
45:CL:260:PHE:CZ	44:CM:403:ALA:HA	2.47	0.50
45:CL:295:ASP:OD1	45:CL:296:ALA:N	2.44	0.50
44:CM:171:ILE:HG12	44:CM:204:LEU:HB2	1.92	0.50
44:CM:405:VAL:CG1	44:CM:409:VAL:HG23	2.34	0.50
45:CN:180:VAL:HG23	45:CN:183:TYR:CD2	2.46	0.50
45:CN:210:ILE:HG23	45:CN:273:LEU:HD13	1.92	0.50
44:DA:11:GLN:HB3	46:DA:501:GTP:O3A	2.11	0.50
44:DA:93:ILE:HG21	44:DA:114:ILE:HG21	1.93	0.50
44:DA:262:TYR:CE1	45:DB:393:ALA:HA	2.47	0.50
45:DB:399:THR:HA	45:DB:403:MET:HB2	1.93	0.50
44:DC:115:VAL:HG22	44:DC:119:LEU:HD23	1.92	0.50
44:DC:215:ARG:NH2	44:DC:299:ALA:HB1	2.27	0.50
44:DC:257:THR:HG23	45:DD:397:TRP:CZ2	2.46	0.50
45:DD:136:THR:HG22	45:DD:167:PHE:HB2	1.93	0.50
45:DD:173:PRO:HG2	45:DD:380:ARG:HD3	1.91	0.50
44:DE:233:GLN:O	44:DE:236:SER:HB3	2.11	0.50
44:DE:238:LEU:HA	44:DE:318:MET:HE1	1.94	0.50
45:DF:25:SER:HA	45:DF:30:ILE:CG1	2.40	0.50
45:DF:271:ALA:HB1	45:DF:272:PRO:HA	1.93	0.50
45:DF:285:THR:HA	45:DF:363:MET:CE	2.40	0.50
45:DF:323:THR:HG21	44:DG:224:TYR:CD1	2.46	0.50
44:DG:49:PHE:O	44:DG:53:PHE:HB2	2.11	0.50
45:DH:174:LYS:CD	45:DH:175:VAL:HG13	2.42	0.50
45:DH:270:PHE:HD2	45:DH:273:LEU:HD21	1.75	0.50
44:DI:223:THR:HG23	44:DI:225:THR:OG1	2.12	0.50
44:DI:348:PRO:HD2	45:DJ:388:MET:HE1	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:6:HIS:O	45:DJ:64:ILE:N	2.42	0.50
45:DJ:25:SER:HA	45:DJ:30:ILE:HG22	1.94	0.50
44:DK:265:ILE:HG23	44:DK:432:TYR:OH	2.12	0.50
44:DK:387:VAL:HG12	44:DK:390:ARG:NH1	2.26	0.50
45:DL:290:THR:HG21	45:DL:329:GLN:OE1	2.11	0.50
45:DN:20:PHE:CD2	45:DN:24:ILE:HD11	2.45	0.50
45:DN:63:ALA:O	45:DN:89:ASN:ND2	2.35	0.50
44:EA:135:PHE:HZ	44:EA:161:TYR:CZ	2.30	0.50
44:EA:205:ASP:OD1	44:EA:303:ALA:HA	2.12	0.50
45:EB:139:LEU:HD21	45:EB:189:VAL:HG23	1.93	0.50
44:EC:396:ASP:OD1	44:EC:397:LEU:N	2.45	0.50
45:ED:6:HIS:CB	45:ED:21:TRP:HZ2	2.25	0.50
45:ED:25:SER:HB3	45:ED:30:ILE:HG13	1.92	0.50
45:ED:62:ARG:HG3	45:ED:62:ARG:O	2.12	0.50
45:ED:134:GLN:HG3	45:ED:134:GLN:O	2.11	0.50
45:ED:202:ILE:HD11	45:ED:300:MET:HB3	1.93	0.50
45:ED:285:THR:CG2	45:ED:287:PRO:HD2	2.41	0.50
45:ED:310:TYR:CE1	45:ED:371:SER:HB2	2.46	0.50
44:EE:4:VAL:HG23	44:EE:134:GLY:O	2.12	0.50
44:EE:22:GLU:HG3	44:EE:83:TYR:HE2	1.74	0.50
44:EE:152:LEU:O	44:EE:155:GLU:N	2.42	0.50
44:EE:230:LEU:HD12	44:EE:275:ILE:CD1	2.41	0.50
44:EE:292:THR:CG2	44:EE:331:SER:HB3	2.42	0.50
45:EF:374:ILE:HG12	45:EF:422:TYR:CE2	2.47	0.50
45:EH:192:LEU:O	45:EH:196:ALA:N	2.26	0.50
45:EJ:135:ILE:CB	45:EJ:166:THR:HG22	2.29	0.50
44:EK:32:PRO:HB2	44:EK:33:ASP:N	2.26	0.50
45:EL:200:MET:HG3	45:EL:268:ILE:CG2	2.41	0.50
45:EL:375:GLN:HG3	45:EL:379:LYS:HZ1	1.76	0.50
45:EL:378:PHE:CB	45:EL:415:MET:HE2	2.38	0.50
44:EM:11:GLN:HB3	46:EM:501:GTP:O2B	2.11	0.50
44:EM:21:TRP:CZ2	44:EM:65:ALA:HB2	2.46	0.50
45:EN:8:GLN:NE2	45:EN:14:ASN:HA	2.26	0.50
45:EN:139:LEU:HB2	45:EN:170:VAL:HA	1.93	0.50
44:FA:102:ASN:ND2	44:FA:407:TRP:O	2.45	0.50
45:FB:165:GLU:OE2	45:FB:250:LEU:HD22	2.11	0.50
45:FB:372:THR:HG22	45:FB:422:TYR:CE2	2.47	0.50
44:FC:205:ASP:OD1	44:FC:303:ALA:HA	2.10	0.50
44:FC:250:VAL:CG2	44:FC:255:PHE:HE1	2.23	0.50
44:FC:409:VAL:HG13	44:FC:413:MET:O	2.12	0.50
45:FD:256:ASN:C	45:FD:257:LEU:HD22	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:1:MET:HG2	44:FE:2:ARG:HH11	1.76	0.50
44:FE:71:GLU:OE1	44:FE:73:THR:HB	2.11	0.50
44:FE:224:TYR:CD2	45:FF:323:THR:HG21	2.46	0.50
44:FG:88:HIS:HB3	44:FG:91:GLN:CG	2.41	0.50
44:FG:325:PRO:HG3	44:FG:355:ILE:CD1	2.42	0.50
44:FI:140:SER:OG	46:FI:501:GTP:O2B	2.15	0.50
44:FI:288:VAL:HG22	44:FI:373:ARG:NH2	2.26	0.50
44:FI:346:TRP:CZ3	45:FL:394:PHE:HE1	2.30	0.50
45:FJ:113:ILE:O	45:FJ:116:VAL:HG12	2.11	0.50
45:FL:104:GLY:O	45:FL:110:ALA:N	2.43	0.50
45:FL:201:VAL:HG21	45:FL:374:ILE:CD1	2.42	0.50
44:FM:49:PHE:HB2	44:FM:53:PHE:CD1	2.46	0.50
44:FM:91:GLN:HB3	44:FM:121:ARG:NH2	2.23	0.50
44:FM:203:MET:HB3	44:FM:303:ALA:HB2	1.93	0.50
45:FN:49:VAL:HG11	45:FN:241:ARG:HD3	1.93	0.50
45:GB:42:LEU:HG	45:GB:45:GLU:OE2	2.12	0.50
44:GC:174:SER:HB2	44:GC:177:VAL:O	2.11	0.50
45:GD:12:CYS:C	45:GD:16:ILE:HG12	2.30	0.50
45:GD:215:LEU:HD21	45:GD:273:LEU:HB3	1.92	0.50
44:GE:403:ALA:O	44:GE:404:PHE:HB2	2.11	0.50
45:GF:192:LEU:HD21	45:GF:199:CYS:SG	2.51	0.50
44:GG:56:THR:HG23	44:GG:58:ALA:N	2.18	0.50
45:GH:323:THR:HG22	45:GH:353:ILE:HG13	1.94	0.50
44:GI:70:LEU:HD11	44:GI:149:LEU:HD21	1.92	0.50
44:GI:263:PRO:HB2	44:GI:264:ARG:HH12	1.77	0.50
45:GJ:142:GLY:N	48:GJ:502:GDP:O2B	2.44	0.50
45:GJ:213:ARG:HH21	45:GJ:297:LYS:HD2	1.75	0.50
44:GK:326:LYS:CD	45:GN:220:PRO:HD2	2.41	0.50
45:GL:87:PRO:HD2	45:HL:281:TYR:CD1	2.46	0.50
45:GL:245:GLN:C	45:GL:246:LEU:HD12	2.31	0.50
44:HA:1:MET:HE3	45:HD:94:GLN:CG	2.41	0.50
44:HA:2:ARG:NE	44:HA:242:LEU:O	2.44	0.50
44:HC:141:VAL:HG11	44:HC:172:TYR:CE1	2.46	0.50
44:HG:254:GLU:HG2	45:HJ:98:GLY:CA	2.33	0.50
44:HI:14:ILE:HD11	44:HI:69:ASP:HB2	1.94	0.50
44:HI:107:HIS:CD2	44:HI:151:SER:HB2	2.45	0.50
45:HJ:257:LEU:HA	45:HJ:312:THR:HG21	1.93	0.50
44:HK:261:PRO:HA	45:HN:394:PHE:CE1	2.47	0.50
44:HM:149:LEU:O	44:HM:152:LEU:HB3	2.11	0.50
44:HM:209:ILE:CG1	44:HM:302:MET:HE1	2.37	0.50
45:HN:86:ARG:NH2	45:IN:278:SER:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:133:PHE:HB2	45:HN:164:MET:SD	2.51	0.50
45:HN:148:GLY:O	45:HN:152:ILE:HG12	2.11	0.50
45:HN:166:THR:O	45:HN:199:CYS:HA	2.11	0.50
44:IA:112:LYS:O	44:IA:115:VAL:HG12	2.11	0.50
45:IB:20:PHE:O	45:IB:24:ILE:HG12	2.11	0.50
44:IC:138:PHE:CE1	44:IC:169:PHE:HB2	2.47	0.50
44:IE:221:ARG:N	44:IE:222:PRO:CD	2.74	0.50
44:IG:407:TRP:HH2	45:IH:254:ALA:CB	2.24	0.50
44:II:100:ALA:HB1	45:IJ:252:LYS:HA	1.93	0.50
45:IJ:36:TYR:CD1	45:IJ:44:LEU:HD21	2.45	0.50
45:IJ:415:MET:CE	45:IJ:415:MET:HA	2.41	0.50
44:IM:317:MET:HE2	44:IM:319:TYR:CE1	2.47	0.50
44:IM:407:TRP:HZ3	45:IN:255:VAL:HG22	1.76	0.50
45:IN:139:LEU:HD23	45:IN:185:ALA:O	2.12	0.50
44:JA:82:THR:HG23	44:JA:83:TYR:CE1	2.47	0.50
44:JA:189:LEU:HD11	44:JA:418:PHE:CD1	2.47	0.50
44:JA:209:ILE:HG22	44:JA:227:LEU:HD22	1.93	0.50
44:JA:358:GLN:CD	44:JA:359:PRO:HD2	2.31	0.50
45:JB:108:GLU:CA	45:JB:111:GLU:HG3	2.41	0.50
45:JB:188:SER:O	45:JB:192:LEU:HD13	2.10	0.50
45:JB:273:LEU:N	45:JB:292:GLN:HE22	2.00	0.50
44:JC:27:GLU:OE1	44:JC:243:ARG:NH1	2.30	0.50
45:JD:187:LEU:HD23	45:JD:411:ALA:CB	2.41	0.50
45:JD:334:GLN:HB2	45:JD:349:ILE:HD12	1.92	0.50
44:JG:1:MET:O	44:JG:1:MET:HG2	2.11	0.50
44:JG:102:ASN:HB3	44:JG:105:ARG:HB3	1.92	0.50
45:JH:147:MET:SD	45:JH:147:MET:O	2.69	0.50
45:JJ:4:ILE:CG2	45:JJ:131:GLN:HB3	2.42	0.50
45:JJ:51:TYR:CE2	45:JJ:61:PRO:HG3	2.46	0.50
45:JJ:70:PRO:HG3	45:JJ:92:PHE:CD2	2.46	0.50
45:JJ:310:TYR:O	45:JJ:342:VAL:HG13	2.11	0.50
45:JJ:325:GLU:HG3	45:JJ:328:GLU:OE2	2.11	0.50
44:JK:288:VAL:HA	44:JK:291:ILE:HD11	1.93	0.50
45:JL:286:VAL:HG23	45:JL:287:PRO:HD3	1.91	0.50
44:JM:302:MET:O	44:JM:302:MET:SD	2.70	0.50
45:JN:2:ARG:O	45:JN:2:ARG:HG3	2.11	0.50
45:JN:184:ASN:OD1	45:JN:185:ALA:N	2.45	0.50
44:KA:105:ARG:C	44:KA:110:ILE:HG12	2.32	0.50
44:KA:221:ARG:HG3	44:KA:221:ARG:O	2.11	0.50
45:KB:22:GLU:HA	45:KB:81:PHE:CE2	2.47	0.50
44:KC:401:LYS:HE2	45:KD:344:TRP:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:167:PHE:CE1	45:KD:233:MET:HG3	2.47	0.50
44:KE:195:LEU:CD1	44:KE:428:LEU:HD11	2.41	0.50
44:KE:296:PHE:CE2	44:KE:335:ILE:HG12	2.47	0.50
44:KE:332:ILE:HG23	44:KE:351:PHE:CE2	2.46	0.50
44:KE:363:VAL:HG12	44:KE:364:PRO:HD2	1.93	0.50
45:KF:173:PRO:HB3	45:KF:384:GLN:HE22	1.77	0.50
44:KG:210:TYR:HE1	44:KG:227:LEU:HD11	1.76	0.50
44:KG:242:LEU:HD21	44:KG:252:ILE:HD12	1.92	0.50
45:KH:202:ILE:HD11	45:KH:268:ILE:CD1	2.42	0.50
44:KI:210:TYR:CD1	44:KI:227:LEU:HD21	2.46	0.50
45:KJ:113:ILE:HD11	45:KJ:151:LEU:HA	1.92	0.50
44:KK:88:HIS:ND1	44:KK:89:PRO:CD	2.73	0.50
45:KL:210:ILE:CG1	45:KL:214:THR:HG21	2.40	0.50
44:KM:104:ALA:O	44:KM:108:TYR:N	2.43	0.50
45:LB:150:LEU:O	45:LB:154:LYS:HG2	2.10	0.50
45:LB:203:ASP:OD1	45:LB:377:MET:HE3	2.11	0.50
44:LE:164:LYS:HE2	44:LE:164:LYS:HA	1.93	0.50
44:LE:317:MET:HB3	44:LE:319:TYR:CE1	2.47	0.50
45:LF:233:MET:O	45:LF:236:VAL:HG12	2.11	0.50
45:LF:266:PHE:CD1	45:LF:370:ASN:HB2	2.46	0.50
44:LG:60:LYS:HZ3	44:MG:283:HIS:HB3	1.76	0.50
44:LG:137:VAL:HG22	44:LG:168:GLY:HA2	1.93	0.50
44:LG:411:GLU:OE1	44:LG:411:GLU:N	2.44	0.50
45:LH:189:VAL:HG21	45:LH:378:PHE:CZ	2.47	0.50
45:LH:330:MET:HE3	45:LH:349:ILE:HG21	1.93	0.50
45:LJ:292:GLN:HE21	45:LJ:298:ASN:HB2	1.77	0.50
45:LL:101:TRP:CE3	45:LL:187:LEU:HD13	2.46	0.50
45:LL:248:SER:CA	45:LL:252:LYS:HD2	2.42	0.50
44:LM:205:ASP:CG	44:LM:303:ALA:HA	2.32	0.50
44:LM:286:LEU:HD12	44:LM:371:VAL:HG11	1.92	0.50
44:MA:115:VAL:HG22	44:MA:119:LEU:CD2	2.41	0.50
45:MB:318:ARG:NH2	45:MB:356:ILE:O	2.45	0.50
44:MC:371:VAL:HG12	44:MC:373:ARG:H	1.77	0.50
45:MD:7:ILE:O	45:MD:135:ILE:HA	2.11	0.50
45:MD:395:LEU:O	45:MD:399:THR:HG22	2.12	0.50
44:ME:21:TRP:CZ3	44:ME:63:PRO:HB3	2.47	0.50
44:ME:308:ARG:HH11	44:ME:308:ARG:CB	2.25	0.50
45:MH:28:HIS:HB2	45:MH:30:ILE:HD12	1.93	0.50
44:MI:84:ARG:HG3	44:MI:85:GLN:HG2	1.92	0.50
45:MJ:46:ARG:O	45:MJ:46:ARG:HG3	2.11	0.50
45:MJ:135:ILE:HG12	45:MJ:164:MET:HE3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:318:MET:SD	44:MK:354:GLY:HA3	2.51	0.50
45:MN:135:ILE:HG13	45:MN:164:MET:HE1	1.92	0.50
44:NA:191:THR:O	44:NA:195:LEU:HB2	2.12	0.50
44:NA:226:ASN:O	44:NA:230:LEU:HD23	2.11	0.50
44:NA:339:ARG:O	44:NA:339:ARG:NH1	2.45	0.50
44:NA:396:ASP:HB2	44:NA:422:ARG:NH1	2.26	0.50
45:NB:285:THR:N	45:NB:288:GLU:OE1	2.42	0.50
44:NE:1:MET:HE2	44:NE:130:THR:HG23	1.93	0.50
44:NE:104:ALA:HB1	44:NE:411:GLU:HB2	1.93	0.50
45:NF:1:MET:SD	45:NF:2:ARG:HG2	2.52	0.50
45:NF:95:THR:HG23	45:NF:96:GLY:N	2.27	0.50
45:NF:107:THR:HG23	45:NF:108:GLU:HG2	1.93	0.50
45:NF:317:PHE:CD2	45:NF:326:VAL:HG22	2.47	0.50
45:NF:404:ASP:OD1	45:NF:405:GLU:OE1	2.29	0.50
44:NG:105:ARG:NH2	44:NG:411:GLU:OE2	2.45	0.50
45:NH:73:MET:SD	45:NH:92:PHE:HB3	2.51	0.50
45:NH:207:LEU:HD23	45:NH:300:MET:HE1	1.92	0.50
44:NK:127:ASP:OD1	44:NK:128:ASN:N	2.45	0.50
44:NK:247:ALA:HB1	45:NN:222:TYR:CE2	2.46	0.50
45:NL:122:LYS:HA	45:NL:125:GLU:OE2	2.11	0.50
45:NL:186:THR:HG23	45:NL:415:MET:HE3	1.94	0.50
45:NN:64:ILE:HG23	45:NN:89:ASN:O	2.11	0.50
45:NN:295:ASP:HA	45:NN:306:ARG:HH22	1.75	0.50
45:OB:22:GLU:OE2	45:OB:81:PHE:HB2	2.12	0.50
45:OB:205:GLU:OE1	45:OB:302:ALA:HB2	2.11	0.50
45:OB:207:LEU:HA	45:OB:210:ILE:HG22	1.93	0.50
45:OD:282:ARG:HG2	45:OD:283:ALA:N	2.26	0.50
45:OD:316:LEU:O	45:OD:365:VAL:HG23	2.12	0.50
45:OD:332:ASN:O	45:OD:336:LYS:N	2.38	0.50
44:OE:237:SER:HG	44:OE:376:CYS:CB	2.24	0.50
44:OE:295:ALA:CB	44:OE:377:MET:CE	2.90	0.50
45:OF:3:GLU:OE2	45:OF:130:LEU:HA	2.10	0.50
45:OF:207:LEU:O	45:OF:210:ILE:HG22	2.11	0.50
44:OG:247:ALA:C	44:OG:248:LEU:HD12	2.31	0.50
45:OH:293:MET:HE1	45:OH:365:VAL:HG11	1.94	0.50
44:OI:3:GLU:OE2	44:OI:131:GLY:N	2.40	0.50
45:OJ:101:TRP:HB3	45:OJ:398:TYR:HE1	1.75	0.50
44:OK:294:SER:HA	44:OK:297:GLU:CG	2.41	0.50
44:OK:349:THR:HG21	45:ON:176:SER:OG	2.11	0.50
44:OM:287:SER:HB3	44:OM:290:GLU:HG2	1.94	0.50
45:ON:116:VAL:HA	45:ON:119:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:118:ASP:HA	45:ON:121:ARG:HE	1.76	0.50
45:ON:178:THR:O	45:ON:181:GLU:HG3	2.12	0.50
45:PB:184:ASN:OD1	45:PB:185:ALA:N	2.44	0.50
44:PG:199:ASP:O	44:PG:266:HIS:HB2	2.12	0.50
44:PG:406:HIS:O	44:PG:409:VAL:HG12	2.11	0.50
45:PH:72:THR:HG23	45:PH:73:MET:H	1.76	0.50
44:PI:221:ARG:NE	45:PJ:322:SER:HB3	2.27	0.50
45:PL:295:ASP:OD1	45:PL:297:LYS:N	2.40	0.50
45:PL:343:GLU:OE2	45:PL:430:ALA:N	2.23	0.50
44:PM:201:ALA:O	44:PM:268:MET:HB3	2.11	0.50
45:PN:19:LYS:HG3	45:PN:226:ASN:HB3	1.93	0.50
44:QA:272:TYR:OH	44:QA:320:ARG:NH1	2.45	0.50
45:QB:246:LEU:HD23	46:QC:501:GTP:C5'	2.40	0.50
45:QB:252:LYS:HE2	44:QC:101:ASN:ND2	2.27	0.50
44:QC:353:VAL:HG12	45:QD:177:ASP:O	2.11	0.50
45:QD:260:PHE:CB	45:QD:263:LEU:HD13	2.42	0.50
45:QD:330:MET:O	45:QD:333:VAL:HG12	2.12	0.50
44:QE:69:ASP:OD2	44:QE:74:VAL:HG21	2.11	0.50
44:QE:288:VAL:CA	44:QE:291:ILE:HG12	2.42	0.50
44:QE:325:PRO:HG3	44:QE:355:ILE:CD1	2.41	0.50
45:QF:289:LEU:HD11	45:QF:363:MET:HB2	1.92	0.50
44:QG:294:SER:HA	44:QG:297:GLU:CG	2.39	0.50
44:QG:420:GLU:HA	44:QG:423:GLU:OE2	2.10	0.50
45:QH:101:TRP:HB3	45:QH:398:TYR:HE1	1.76	0.50
45:QH:274:THR:HB	45:QH:282:ARG:HH22	1.76	0.50
45:QJ:4:ILE:HG13	45:QJ:50:TYR:HE1	1.76	0.50
44:QK:108:TYR:HA	44:QK:112:LYS:HE3	1.93	0.50
44:QK:182:VAL:O	44:QK:182:VAL:HG22	2.11	0.50
44:RA:22:GLU:HG3	44:RA:83:TYR:CE2	2.46	0.50
44:RE:89:PRO:HG3	44:SE:280:LYS:CG	2.41	0.50
44:RE:278:ALA:N	44:RE:369:ALA:HB2	2.26	0.50
44:RE:414:GLU:H	44:RE:417:GLU:HG3	1.76	0.50
45:RF:274:THR:HB	45:RF:282:ARG:HH11	1.76	0.50
44:RG:329:ASN:OD1	44:RG:330:ALA:N	2.45	0.50
45:RH:207:LEU:HB3	45:RH:225:LEU:HD22	1.93	0.50
45:RH:344:TRP:CZ3	45:RH:345:ILE:HB	2.46	0.50
45:RH:345:ILE:HA	44:RI:398:MET:CE	2.28	0.50
45:RH:347:ASN:O	44:RI:181:VAL:HG12	2.11	0.50
45:RJ:54:ALA:CA	45:SJ:283:ALA:HB2	2.40	0.50
45:RJ:105:HIS:CD2	45:RJ:150:LEU:HB2	2.46	0.50
45:RJ:329:GLN:O	45:RJ:333:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:183:GLU:CD	44:RK:184:PRO:HD3	2.31	0.50
44:RK:312:TYR:CD1	44:RK:381:SER:HB3	2.46	0.50
45:RL:192:LEU:HD12	45:RL:196:ALA:HB2	1.92	0.50
44:RM:68:LEU:CD1	44:RM:93:ILE:HD13	2.42	0.50
44:RM:183:GLU:OE2	44:RM:184:PRO:HD3	2.11	0.50
44:RM:265:ILE:HG13	44:RM:432:TYR:HE1	1.76	0.50
45:RN:68:LEU:HB3	45:RN:96:GLY:HA2	1.92	0.50
45:RN:304:ASP:HB3	45:RN:307:HIS:CG	2.47	0.50
45:SB:100:ASN:HD22	45:SB:103:LYS:HB2	1.77	0.50
44:SC:31:GLN:HG3	44:SC:37:PRO:HG3	1.92	0.50
44:SC:257:THR:HG22	45:SD:397:TRP:CE3	2.46	0.50
45:SD:151:LEU:O	45:SD:155:VAL:HG23	2.11	0.50
44:SE:110:ILE:HG13	44:SE:111:GLY:N	2.27	0.50
45:SF:135:ILE:HG13	45:SF:152:ILE:HD11	1.93	0.50
45:SF:200:MET:HG3	45:SF:268:ILE:HG23	1.93	0.50
45:SF:317:PHE:HB3	45:SF:321:MET:CE	2.42	0.50
44:SG:151:SER:HB3	44:SG:193:SER:OG	2.11	0.50
44:SI:56:THR:HG23	44:SI:58:ALA:N	2.25	0.50
44:SI:406:HIS:O	44:SI:410:GLY:N	2.40	0.50
45:SJ:49:VAL:O	45:SJ:50:TYR:HD1	1.94	0.50
45:SJ:175:VAL:CG2	45:SJ:204:ASN:HB2	2.31	0.50
45:SJ:192:LEU:CD1	45:SJ:196:ALA:HB2	2.42	0.50
45:SJ:316:LEU:N	45:SJ:366:THR:O	2.43	0.50
45:SJ:380:ARG:HA	45:SJ:383:GLU:HB3	1.94	0.50
44:SK:175:PRO:HB3	44:SK:390:ARG:CZ	2.41	0.50
44:SK:192:HIS:HA	44:SK:195:LEU:HB2	1.94	0.50
44:SM:20:CYS:HA	44:SM:232:ALA:HB1	1.93	0.50
44:SM:119:LEU:HA	44:SM:122:ILE:HB	1.92	0.50
44:SM:242:LEU:HD11	44:SM:252:ILE:CG1	2.37	0.50
44:SM:254:GLU:CG	45:SN:98:GLY:HA2	2.40	0.50
44:SM:291:ILE:HD11	44:SM:319:TYR:HE2	1.76	0.50
45:SN:48:ASN:O	45:SN:62:ARG:NH1	2.44	0.50
45:SN:100:ASN:CB	45:SN:103:LYS:HE3	2.41	0.50
45:SN:130:LEU:HG	45:SN:162:ARG:CD	2.41	0.50
44:TA:98:ASP:OD1	44:TA:99:ALA:N	2.44	0.50
45:TB:149:THR:OG1	45:TB:191:GLN:HB3	2.11	0.50
45:TB:193:VAL:HA	45:TB:264:HIS:CE1	2.46	0.50
45:TB:314:SER:HA	45:TB:350:LYS:O	2.12	0.50
44:TC:235:ILE:HD12	44:TC:235:ILE:H	1.75	0.50
45:TD:151:LEU:HA	45:TD:154:LYS:HB2	1.93	0.50
45:TD:164:MET:HB3	45:TD:197:ASP:N	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:334:GLN:HG3	45:TD:348:ASN:OD1	2.12	0.50
45:TD:389:PHE:CZ	45:TD:405:GLU:HB2	2.47	0.50
45:TF:185:ALA:O	45:TF:189:VAL:HG23	2.11	0.50
45:TF:330:MET:HA	45:TF:330:MET:CE	2.41	0.50
44:TG:198:THR:HG22	44:TG:199:ASP:N	2.26	0.50
44:TG:209:ILE:HD12	44:TG:302:MET:HE1	1.94	0.50
44:TI:390:ARG:HG3	44:TI:391:LEU:N	2.27	0.50
45:TJ:207:LEU:HD13	45:TJ:225:LEU:HD22	1.91	0.50
45:TJ:321:MET:HE1	44:TK:221:ARG:HH21	1.77	0.50
44:TK:200:VAL:HA	44:TK:266:HIS:HB2	1.94	0.50
44:TM:99:ALA:C	44:TM:105:ARG:HD3	2.32	0.50
44:TM:287:SER:O	44:TM:291:ILE:HG23	2.11	0.50
45:TN:113:ILE:CD1	45:TN:150:LEU:HD22	2.41	0.50
45:TN:171:PRO:HB2	45:TN:181:GLU:HB3	1.93	0.50
45:TN:326:VAL:O	45:TN:330:MET:HG2	2.12	0.50
44:UA:13:GLY:HA2	44:UA:16:VAL:HG12	1.93	0.50
44:UA:408:TYR:O	44:UA:413:MET:HG2	2.11	0.50
45:UB:10:GLY:HA3	45:UB:144:GLY:CA	2.40	0.50
44:UC:245:ASP:O	44:UC:357:TYR:HB2	2.11	0.50
44:UE:241:SER:CB	44:UE:250:VAL:HG12	2.41	0.50
45:UF:49:VAL:HG21	45:UF:241:ARG:CG	2.40	0.50
45:UF:242:PHE:HB3	45:UF:356:ILE:HG13	1.94	0.50
44:UG:326:LYS:HD2	44:UG:327:ASP:N	2.26	0.50
44:UG:351:PHE:HB2	45:UH:176:SER:HG	1.77	0.50
45:UH:6:HIS:N	45:UH:62:ARG:O	2.34	0.50
45:UH:257:LEU:HD21	45:UH:314:SER:CB	2.39	0.50
45:UH:329:GLN:O	45:UH:333:VAL:HG23	2.11	0.50
44:UI:66:VAL:O	44:UI:66:VAL:HG23	2.10	0.50
44:UI:201:ALA:HB3	44:UI:267:PHE:HA	1.92	0.50
45:UJ:42:LEU:HD12	45:UJ:42:LEU:H	1.75	0.50
45:UJ:43:GLN:O	45:UJ:47:ILE:HD11	2.12	0.50
45:UJ:109:GLY:O	45:UJ:113:ILE:N	2.41	0.50
44:UK:79:ARG:O	44:UK:84:ARG:HG2	2.10	0.50
44:UK:80:THR:O	44:UK:84:ARG:NH1	2.44	0.50
44:UM:2:ARG:HA	44:UM:131:GLY:HA3	1.94	0.50
44:UM:270:SER:CB	44:UM:378:ILE:HG13	2.42	0.50
44:UM:291:ILE:HG13	44:UM:292:THR:N	2.25	0.50
45:UN:193:VAL:C	45:UN:262:ARG:HH12	2.14	0.50
45:UN:263:LEU:HD23	45:UN:311:LEU:HD12	1.94	0.50
45:UN:289:LEU:HD11	45:UN:363:MET:HB2	1.93	0.50
44:VA:7:ILE:HB	44:VA:137:VAL:HB	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:12:CYS:HB2	48:VB:502:GDP:C8	2.46	0.50
45:VB:131:GLN:HA	45:VB:251:ARG:HH12	1.76	0.50
45:VB:221:THR:HG23	45:VB:223:GLY:N	2.25	0.50
45:VB:227:HIS:O	45:VB:230:SER:N	2.44	0.50
45:VB:268:ILE:CG2	45:VB:368:VAL:HG22	2.39	0.50
45:VD:135:ILE:HG22	45:VD:137:HIS:ND1	2.26	0.50
45:VD:263:LEU:HD21	45:VD:422:TYR:CE1	2.46	0.50
45:VF:4:ILE:HG22	45:VF:131:GLN:HB3	1.94	0.50
44:VG:434:GLU:O	44:VG:437:ILE:HG12	2.11	0.50
45:VH:311:LEU:O	45:VH:345:ILE:HG21	2.11	0.50
44:VI:104:ALA:HA	44:VI:413:MET:HE3	1.94	0.50
45:VJ:116:VAL:O	45:VJ:119:VAL:HG12	2.12	0.50
44:VK:169:PHE:HZ	44:VK:238:LEU:HD13	1.77	0.50
44:VK:191:THR:HA	44:VK:194:LEU:HD21	1.91	0.50
44:VK:332:ILE:HG23	44:VK:351:PHE:HE2	1.77	0.50
45:VL:68:LEU:HD23	45:VL:97:ALA:N	2.25	0.50
45:VL:256:ASN:CB	45:VL:350:LYS:HD2	2.39	0.50
45:VL:314:SER:CA	45:VL:350:LYS:HB3	2.37	0.50
44:VM:183:GLU:HG2	44:VM:184:PRO:N	2.26	0.50
44:VM:260:VAL:HG22	44:VM:266:HIS:CB	2.42	0.50
45:VN:62:ARG:O	45:VN:62:ARG:HG2	2.10	0.50
45:VN:209:ASP:OD1	45:VN:213:ARG:HD3	2.11	0.50
45:VN:221:THR:OG1	45:VN:222:TYR:N	2.45	0.50
44:WC:288:VAL:CG2	44:WC:323:VAL:HG21	2.41	0.50
44:WG:311:LYS:HD2	44:WG:342:GLN:HE21	1.74	0.50
44:WI:259:LEU:HD21	44:WI:316:SER:N	2.24	0.50
44:WK:152:LEU:HD12	44:WK:156:ARG:NH1	2.25	0.50
44:WK:311:LYS:CB	44:WK:344:VAL:HG12	2.41	0.50
44:WK:408:TYR:CD2	44:WK:418:PHE:HZ	2.28	0.50
44:WM:26:LEU:HD23	44:WM:363:VAL:HA	1.92	0.50
44:WM:248:LEU:HD23	44:WM:355:ILE:H	1.73	0.50
45:WN:4:ILE:HD13	45:WN:250:LEU:CD1	2.41	0.50
8:OG:81:VAL:HA	45:JN:221:THR:HG21	1.93	0.50
5:1D:177:THR:HG21	45:EF:47:ILE:HG22	1.92	0.50
5:1D:187:PHE:CB	44:FE:221:ARG:HG3	2.42	0.50
9:1H:278:GLU:OE2	45:HF:360:GLY:HA3	2.11	0.50
20:1J:50:LYS:HE3	45:ID:283:ALA:CB	2.41	0.50
22:1L:176:ARG:CZ	44:CI:367:ASP:HA	2.41	0.50
26:1R:348:TYR:HB2	44:CC:39:ASP:O	2.10	0.50
27:1W:242:LEU:HD21	35:7R:15:HIS:CD2	2.45	0.50
32:2I:67:LYS:HG2	44:GE:326:LYS:HZ2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2V:230:ASN:H	45:VH:92:PHE:HZ	1.59	0.50
2:3A:13:THR:HG21	45:LN:37:HIS:NE2	2.26	0.50
37:5D:54:ARG:HH11	44:KK:439:THR:N	1.92	0.50
37:5D:108:ARG:CA	44:NM:281:ALA:CB	2.89	0.50
38:5E:173:LYS:HE3	45:KD:262:ARG:NH1	2.08	0.50
38:5G:113:LEU:HD21	44:NI:84:ARG:HD3	1.93	0.50
11:5Q:78:MET:HG3	11:5Q:165:ILE:HD13	1.91	0.50
11:5Q:96:ASP:H	11:5Q:146:THR:CG2	2.23	0.50
11:5Q:133:GLN:O	11:5Q:133:GLN:HG3	2.12	0.50
11:5Q:136:LEU:HG	11:5Q:136:LEU:O	2.11	0.50
11:5Q:138:ASP:O	11:5Q:141:ARG:N	2.45	0.50
35:5R:169:ILE:HG13	35:5R:170:ASN:N	2.23	0.50
35:5R:258:PHE:CD1	35:5R:352:CYS:HB3	2.47	0.50
35:5R:287:ILE:HD13	35:5R:304:LEU:CD2	2.39	0.50
41:6G:172:LEU:HD12	41:6G:173:GLU:N	2.27	0.50
35:7R:93:LEU:HD11	35:7R:190:PHE:CE2	2.46	0.50
44:AA:13:GLY:HA2	44:AA:16:VAL:CG1	2.42	0.50
45:AB:49:VAL:HG11	45:AB:240:LEU:CD2	2.40	0.50
45:AB:113:ILE:CD1	45:AB:150:LEU:HD22	2.40	0.50
44:AC:181:VAL:O	44:AC:181:VAL:HG22	2.12	0.50
45:AD:36:TYR:CZ	45:AD:38:GLY:HA3	2.47	0.50
44:AE:234:VAL:HG13	44:AE:376:CYS:SG	2.51	0.50
44:AE:328:VAL:HG11	44:AE:353:VAL:HG21	1.93	0.50
45:AF:133:PHE:HB2	45:AF:164:MET:SD	2.51	0.50
44:AI:292:THR:O	44:AI:295:ALA:HB3	2.11	0.50
44:AI:298:PRO:HB3	44:AI:307:PRO:HD2	1.92	0.50
45:AJ:406:MET:O	45:AJ:409:THR:HG22	2.11	0.50
44:AK:121:ARG:NH1	44:AK:124:LYS:HD2	2.27	0.50
45:AL:113:ILE:HA	45:AL:116:VAL:HG12	1.93	0.50
44:AM:398:MET:HE2	45:AN:345:ILE:CA	2.42	0.50
44:AM:422:ARG:O	44:AM:425:LEU:HG	2.12	0.50
45:AN:65:LEU:HD22	45:AN:90:PHE:CE1	2.46	0.50
44:BA:76:ASP:O	44:BA:80:THR:HG23	2.10	0.50
44:BA:141:VAL:CG1	44:BA:187:SER:HA	2.41	0.50
44:BA:186:ASN:OD1	44:BA:187:SER:N	2.45	0.50
44:BA:203:MET:CE	44:BA:267:PHE:HB3	2.41	0.50
44:BC:265:ILE:HG23	44:BC:432:TYR:CZ	2.47	0.50
45:BD:154:LYS:HE2	45:BD:154:LYS:HA	1.92	0.50
44:BE:51:THR:HG23	44:BE:52:PHE:HD1	1.75	0.50
44:BE:269:LEU:HD23	44:BE:269:LEU:H	1.75	0.50
45:BF:130:LEU:HG	45:BF:162:ARG:CD	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:63:PRO:HG2	44:BG:87:PHE:HD1	1.76	0.50
44:BG:177:VAL:HG22	45:BH:331:LEU:HD22	1.94	0.50
44:BG:214:ARG:HH11	44:BG:214:ARG:HG2	1.76	0.50
44:BK:247:ALA:N	44:BK:357:TYR:HE1	2.09	0.50
44:BM:317:MET:HE1	44:BM:332:ILE:HD11	1.94	0.50
44:BM:372:MET:C	44:BM:373:ARG:HD3	2.31	0.50
45:BN:167:PHE:CE2	45:BN:233:MET:HE2	2.47	0.50
45:BN:251:ARG:HG2	45:BN:251:ARG:NH1	2.26	0.50
45:CB:10:GLY:CA	45:CB:14:ASN:H	2.24	0.50
45:CB:319:GLY:HA3	45:CB:363:MET:HE3	1.94	0.50
45:CD:1:MET:HE1	44:CE:72:PRO:HG2	1.93	0.50
45:CD:227:HIS:O	45:CD:231:ALA:N	2.39	0.50
44:CE:348:PRO:HB2	45:CF:384:GLN:OE1	2.12	0.50
45:CF:268:ILE:HG13	45:CF:300:MET:HG3	1.93	0.50
45:CF:271:ALA:HB1	45:CF:272:PRO:HA	1.94	0.50
44:CG:202:VAL:HG13	44:CG:269:LEU:HA	1.92	0.50
45:CH:116:VAL:O	45:CH:119:VAL:HG12	2.12	0.50
44:CI:56:THR:HG22	44:CI:60:LYS:O	2.12	0.50
44:CI:208:ALA:O	44:CI:211:ASP:N	2.45	0.50
44:CI:224:TYR:CD1	44:CI:227:LEU:HD12	2.44	0.50
44:CK:101:ASN:HA	44:CK:144:GLY:HA3	1.93	0.50
44:CM:20:CYS:HB3	44:CM:232:ALA:HA	1.94	0.50
44:CM:93:ILE:HD12	44:CM:93:ILE:H	1.75	0.50
45:CN:412:GLU:O	45:CN:416:ASN:N	2.28	0.50
44:DA:1:MET:HG2	44:DA:1:MET:O	2.10	0.50
45:DD:123:GLU:HA	45:DD:123:GLU:OE1	2.12	0.50
45:DF:65:LEU:HD21	45:DF:85:PHE:CD2	2.47	0.50
44:DG:199:ASP:O	44:DG:266:HIS:HB2	2.11	0.50
44:DI:137:VAL:N	44:DI:167:LEU:O	2.42	0.50
45:DJ:130:LEU:HD21	45:DJ:133:PHE:CE1	2.47	0.50
45:DJ:249:ASP:OD2	44:DK:98:ASP:HB3	2.11	0.50
44:DM:89:PRO:HG3	44:EM:280:LYS:HB3	1.93	0.50
44:DM:344:VAL:HG22	44:DM:345:ASP:N	2.26	0.50
45:DN:20:PHE:CD1	45:DN:233:MET:HB3	2.47	0.50
45:DN:50:TYR:HE2	45:DN:237:THR:HG21	1.75	0.50
44:EA:182:VAL:HG22	44:EA:182:VAL:O	2.11	0.50
44:EC:181:VAL:HG23	44:EC:182:VAL:N	2.27	0.50
44:EE:7:ILE:HG22	44:EE:137:VAL:HG23	1.94	0.50
44:EE:103:PHE:CE2	44:EE:189:LEU:HB3	2.46	0.50
44:EE:109:THR:HB	44:EE:110:ILE:HD12	1.94	0.50
44:EE:243:ARG:HG3	44:EE:244:PHE:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:323:THR:OG1	44:EG:223:THR:HA	2.12	0.50
45:EF:346:PRO:HD2	44:EG:398:MET:HE1	1.93	0.50
45:EH:135:ILE:HG13	45:EH:152:ILE:CD1	2.41	0.50
44:EI:36:MET:CB	44:EI:37:PRO:CD	2.88	0.50
44:EI:149:LEU:O	44:EI:153:LEU:HG	2.12	0.50
44:EI:287:SER:O	44:EI:290:GLU:HG2	2.12	0.50
45:EJ:36:TYR:CZ	45:EJ:44:LEU:HG	2.47	0.50
45:EJ:286:VAL:CA	45:EJ:363:MET:HE2	2.42	0.50
44:EK:14:ILE:CD1	44:EK:69:ASP:HB2	2.30	0.50
44:EK:315:CYS:O	44:EK:351:PHE:HA	2.11	0.50
45:EL:167:PHE:HE2	45:EL:233:MET:HG2	1.76	0.50
45:EL:182:PRO:HB2	45:EL:388:MET:CE	2.41	0.50
45:EL:254:ALA:O	45:EL:258:ILE:HD12	2.12	0.50
45:EL:347:ASN:HB3	44:EM:178:SER:OG	2.12	0.50
45:EL:383:GLU:HA	45:EL:386:THR:CG2	2.41	0.50
44:FA:191:THR:CA	44:FA:194:LEU:HG	2.40	0.50
45:FB:5:VAL:HG12	45:FB:62:ARG:CD	2.41	0.50
45:FB:112:LEU:O	45:FB:112:LEU:HD23	2.11	0.50
45:FB:318:ARG:NH1	45:FB:366:THR:OG1	2.45	0.50
44:FC:184:PRO:CG	44:FC:398:MET:HE3	2.36	0.50
45:FD:268:ILE:HG13	45:FD:368:VAL:HG12	1.93	0.50
45:FD:290:THR:O	45:FD:293:MET:HB3	2.12	0.50
44:FE:292:THR:HG21	44:FE:331:SER:HB2	1.93	0.50
45:FF:288:GLU:HA	45:FF:291:GLN:HG2	1.93	0.50
44:FG:422:ARG:HH12	44:FG:426:ALA:HB2	1.77	0.50
45:FH:169:VAL:HA	45:FH:202:ILE:O	2.10	0.50
44:FI:4:VAL:HG23	44:FI:134:GLY:O	2.11	0.50
44:FK:14:ILE:HG21	44:FK:74:VAL:HG22	1.94	0.50
44:FK:268:MET:HA	44:FK:268:MET:HE3	1.94	0.50
44:FK:322:ASP:OD1	44:FK:373:ARG:HD2	2.11	0.50
45:FL:86:ARG:NE	45:FL:86:ARG:HA	2.27	0.50
45:FL:86:ARG:HH21	45:FL:87:PRO:CD	2.24	0.50
45:FL:135:ILE:O	45:FL:167:PHE:N	2.43	0.50
45:FL:213:ARG:HH21	45:FL:297:LYS:HD3	1.76	0.50
45:FL:230:SER:HA	45:FL:233:MET:HE3	1.93	0.50
44:FM:5:ILE:HD12	44:FM:132:LEU:HD11	1.93	0.50
44:GC:296:PHE:HE2	44:GC:335:ILE:HG21	1.72	0.50
45:GD:20:PHE:CD1	45:GD:233:MET:HG3	2.47	0.50
45:GD:180:VAL:HG23	45:GD:183:TYR:HB2	1.93	0.50
45:GD:396:HIS:HA	45:GD:399:THR:CG2	2.42	0.50
44:GE:17:GLY:HA2	44:GE:20:CYS:SG	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:156:ARG:HD3	45:GF:164:MET:HG3	1.93	0.50
45:GH:86:ARG:NE	45:GH:87:PRO:HD2	2.27	0.50
45:GH:269:GLY:HA2	45:GH:300:MET:HG2	1.93	0.50
45:GH:329:GLN:O	45:GH:333:VAL:N	2.43	0.50
45:GJ:87:PRO:HD2	45:HJ:281:TYR:HD2	1.77	0.50
44:GK:251:ASP:H	44:GK:257:THR:CG2	2.16	0.50
44:GK:280:LYS:HA	44:GK:283:HIS:HD2	1.75	0.50
44:GK:426:ALA:O	44:GK:430:LYS:N	2.36	0.50
45:GL:4:ILE:CD1	45:GL:131:GLN:HB3	2.41	0.50
45:GL:172:SER:OG	45:GL:175:VAL:HG22	2.11	0.50
45:GL:313:ALA:O	45:GL:349:ILE:HA	2.10	0.50
44:GM:109:THR:HG22	44:GM:110:ILE:HG23	1.93	0.50
44:GM:171:ILE:HG23	44:GM:204:LEU:O	2.12	0.50
44:GM:176:GLN:OE1	44:GM:177:VAL:HG23	2.11	0.50
44:GM:212:ILE:HD12	44:GM:300:ASN:HA	1.93	0.50
44:GM:293:ASN:O	44:GM:296:PHE:N	2.45	0.50
45:GN:174:LYS:HB3	45:GN:205:GLU:CD	2.31	0.50
45:GN:182:PRO:HB2	45:GN:386:THR:C	2.32	0.50
44:HA:224:TYR:HD1	44:HA:227:LEU:HD12	1.75	0.50
44:HC:261:PRO:HG2	44:HC:313:MET:SD	2.52	0.50
45:HD:264:HIS:ND1	45:HD:264:HIS:O	2.45	0.50
45:HF:216:LYS:CG	45:HF:275:SER:HB3	2.42	0.50
45:HF:330:MET:HB3	45:HF:349:ILE:HD12	1.93	0.50
44:HG:264:ARG:HD3	44:HG:431:ASP:OD2	2.12	0.50
44:HI:60:LYS:HD3	44:II:283:HIS:CD2	2.47	0.50
44:HI:224:TYR:HE2	46:HI:501:GTP:N3	2.10	0.50
45:HJ:3:GLU:HB2	45:HJ:49:VAL:O	2.11	0.50
45:HJ:101:TRP:HE1	45:HJ:146:GLY:HA2	1.77	0.50
44:HK:53:PHE:CE2	44:HK:63:PRO:HG3	2.46	0.50
44:HK:276:ILE:HG23	44:HK:281:ALA:HB2	1.94	0.50
45:HL:22:GLU:HA	45:HL:81:PHE:CD2	2.45	0.50
45:HL:321:MET:HB2	45:HL:325:GLU:OE2	2.11	0.50
45:HN:73:MET:HA	45:HN:76:VAL:CG1	2.39	0.50
45:HN:385:PHE:HE2	45:HN:412:GLU:HB2	1.76	0.50
44:IA:27:GLU:OE2	44:IA:28:HIS:ND1	2.45	0.50
44:IC:210:TYR:HE1	44:IC:227:LEU:HD11	1.77	0.50
44:IC:257:THR:HG22	45:IF:397:TRP:CZ2	2.46	0.50
45:ID:269:GLY:HA2	45:ID:300:MET:SD	2.52	0.50
44:IE:71:GLU:OE2	45:IF:2:ARG:NH2	2.44	0.50
44:IE:216:ASN:HB3	44:IE:275:ILE:O	2.11	0.50
44:IG:405:VAL:O	44:IG:409:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:68:LEU:CG	45:IH:147:MET:HE3	2.40	0.50
45:IH:382:ALA:HB2	45:IH:415:MET:HE2	1.94	0.50
44:II:291:ILE:HG13	44:II:292:THR:N	2.26	0.50
44:IK:12:GLY:O	44:IK:16:VAL:HG22	2.11	0.50
45:IL:184:ASN:OD1	45:IL:185:ALA:N	2.45	0.50
44:IM:79:ARG:O	44:IM:84:ARG:HG2	2.12	0.50
44:IM:313:MET:HE2	44:IM:381:SER:N	2.27	0.50
44:JA:56:THR:OG1	44:KA:282:TYR:O	2.30	0.50
44:JA:108:TYR:CE2	44:JA:413:MET:HG3	2.44	0.50
44:JC:194:LEU:HD11	44:JC:267:PHE:HZ	1.75	0.50
44:JC:254:GLU:HG3	45:JF:98:GLY:HA2	1.94	0.50
44:JC:380:ASN:OD1	44:JC:381:SER:N	2.45	0.50
45:JD:11:GLN:HB3	48:JD:501:GDP:O1A	2.10	0.50
45:JD:169:VAL:O	45:JD:169:VAL:HG23	2.11	0.50
44:JE:108:TYR:CE2	44:JE:413:MET:SD	3.03	0.50
45:JF:134:GLN:O	45:JF:135:ILE:HD13	2.11	0.50
45:JF:286:VAL:CG2	45:JF:321:MET:HG2	2.40	0.50
44:JG:62:VAL:HG13	44:JG:62:VAL:O	2.10	0.50
44:JG:77:GLU:OE2	44:JG:78:VAL:HG23	2.11	0.50
45:JH:3:GLU:CG	45:JH:127:CYS:HB2	2.41	0.50
44:JK:119:LEU:HG	44:JK:156:ARG:HG2	1.94	0.50
45:JL:173:PRO:CD	45:JL:380:ARG:HD3	2.42	0.50
45:JL:383:GLU:O	45:JL:386:THR:HG22	2.11	0.50
44:JM:26:LEU:HD13	44:JM:363:VAL:HA	1.94	0.50
44:JM:166:LYS:O	44:JM:199:ASP:HB3	2.11	0.50
44:JM:177:VAL:O	44:JM:177:VAL:HG13	2.11	0.50
44:JM:188:ILE:HG22	44:JM:421:ALA:HB1	1.93	0.50
44:JM:248:LEU:CB	44:JM:355:ILE:H	2.24	0.50
44:JM:311:LYS:HA	44:JM:342:GLN:O	2.12	0.50
44:KA:71:GLU:OE1	44:KA:73:THR:HB	2.12	0.50
44:KA:205:ASP:OD1	44:KA:303:ALA:HA	2.11	0.50
44:KC:195:LEU:HD21	44:KC:264:ARG:CZ	2.41	0.50
45:KD:31:ASP:OD1	45:KD:34:GLY:N	2.42	0.50
45:KD:269:GLY:HA2	45:KD:300:MET:CE	2.40	0.50
45:KD:315:ALA:N	45:KD:350:LYS:O	2.44	0.50
45:KD:398:TYR:HB3	45:KD:403:MET:CE	2.41	0.50
45:KF:267:MET:CE	45:KF:299:MET:HG3	2.41	0.50
45:KF:271:ALA:HB3	45:KF:365:VAL:CG2	2.41	0.50
44:KG:210:TYR:OH	44:KG:224:TYR:HE1	1.94	0.50
45:KH:9:GLY:HA2	45:KH:66:MET:O	2.10	0.50
44:KI:272:TYR:CD1	44:KI:275:ILE:HD11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KJ:186:THR:O	45:KJ:189:VAL:HG12	2.11	0.50
44:KK:224:TYR:HD2	46:KK:501:GTP:C6	2.30	0.50
45:KL:182:PRO:O	45:KL:186:THR:HG22	2.12	0.50
45:KN:285:THR:HA	45:KN:363:MET:CE	2.41	0.50
44:LA:153:LEU:O	44:LA:157:LEU:N	2.45	0.50
44:LA:240:ALA:HB1	44:LA:356:ASN:ND2	2.27	0.50
44:LA:376:CYS:SG	44:LA:377:MET:N	2.85	0.50
45:LB:9:GLY:O	45:LB:13:GLY:HA3	2.10	0.50
45:LB:163:ILE:HD11	45:LB:198:GLU:OE2	2.11	0.50
45:LB:278:SER:OG	45:LB:281:TYR:HD2	1.95	0.50
44:LC:21:TRP:HZ2	44:LC:65:ALA:HB2	1.76	0.50
45:LD:201:VAL:HG21	45:LD:377:MET:HE1	1.93	0.50
44:LE:99:ALA:HB2	44:LE:145:THR:HB	1.94	0.50
44:LE:123:ARG:NH2	44:LE:160:ASP:OD2	2.44	0.50
44:LG:323:VAL:HG21	44:LG:355:ILE:HD12	1.94	0.50
44:LI:261:PRO:HA	45:LL:394:PHE:CD1	2.46	0.50
44:LM:119:LEU:HA	44:LM:122:ILE:CG1	2.42	0.50
44:MA:210:TYR:CE1	44:MA:227:LEU:HD11	2.46	0.50
45:MB:103:LYS:N	45:MB:401:GLU:OE1	2.45	0.50
45:MD:165:GLU:OE2	45:MD:250:LEU:HD22	2.12	0.50
44:ME:184:PRO:O	44:ME:188:ILE:N	2.43	0.50
45:MF:101:TRP:CD1	45:MF:105:HIS:HB2	2.46	0.50
45:MF:178:THR:N	45:MF:181:GLU:OE2	2.44	0.50
45:MH:44:LEU:CD2	45:MH:47:ILE:HG13	2.41	0.50
44:MI:172:TYR:HB3	44:MI:173:PRO:HD2	1.92	0.50
45:MJ:7:ILE:HG21	45:MJ:151:LEU:HD21	1.92	0.50
44:MK:102:ASN:CG	44:MK:105:ARG:HG3	2.32	0.50
45:ML:86:ARG:HB3	45:ML:89:ASN:OD1	2.11	0.50
45:ML:286:VAL:HB	45:ML:325:GLU:CD	2.31	0.50
44:MM:36:MET:O	44:MM:38:SER:N	2.45	0.50
44:MM:259:LEU:HD23	44:MM:314:ALA:HB1	1.92	0.50
45:MN:134:GLN:O	45:MN:135:ILE:HD13	2.10	0.50
44:NA:11:GLN:HA	44:NA:14:ILE:CG1	2.42	0.50
44:NA:288:VAL:HG11	44:NA:327:ASP:CB	2.23	0.50
44:NE:101:ASN:ND2	46:NE:501:GTP:O2G	2.44	0.50
44:NE:270:SER:OG	44:NE:378:ILE:HD13	2.11	0.50
45:NF:73:MET:O	45:NF:76:VAL:HG12	2.11	0.50
45:NF:199:CYS:O	45:NF:265:PHE:HA	2.11	0.50
44:NG:279:GLU:HG3	44:NG:281:ALA:H	1.76	0.50
44:NG:330:ALA:O	44:NG:333:ALA:HB3	2.12	0.50
45:NH:51:TYR:C	45:NH:62:ARG:HH21	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:90:GLU:CG	44:OI:280:LYS:HE3	2.42	0.50
44:NI:179:THR:HG23	45:NJ:351:SER:OG	2.11	0.50
44:NI:252:ILE:HA	44:NI:255:PHE:HD2	1.74	0.50
45:NJ:4:ILE:HD11	45:NJ:50:TYR:CE1	2.46	0.50
45:NJ:60:VAL:HG21	45:NJ:86:ARG:CG	2.26	0.50
45:NL:319:GLY:CA	45:NL:357:PRO:HG3	2.41	0.50
45:NN:221:THR:O	45:NN:225:LEU:HG	2.11	0.50
44:OA:236:SER:HA	44:OA:239:THR:OG1	2.12	0.50
44:OA:272:TYR:HD1	44:OA:376:CYS:CB	2.24	0.50
44:OA:290:GLU:HA	44:OA:293:ASN:OD1	2.11	0.50
44:OA:362:VAL:HG21	44:OA:368:LEU:O	2.12	0.50
45:OB:183:TYR:HH	45:OB:393:ALA:HB3	1.77	0.50
44:OC:11:GLN:HE22	44:OC:74:VAL:HG11	1.77	0.50
44:OC:203:MET:O	44:OC:204:LEU:HD23	2.12	0.50
44:OC:258:ASN:CG	45:OF:179:VAL:HG12	2.31	0.50
45:OD:141:GLY:N	48:OD:502:GDP:H5'	2.26	0.50
44:OE:7:ILE:HD13	44:OE:66:VAL:CG1	2.41	0.50
44:OE:208:ALA:HA	44:OE:304:LYS:NZ	2.26	0.50
44:OE:328:VAL:CG2	44:OE:355:ILE:HD11	2.40	0.50
45:OF:73:MET:O	45:OF:76:VAL:HG12	2.11	0.50
45:OF:86:ARG:HB3	45:OF:89:ASN:ND2	2.27	0.50
44:OG:276:ILE:O	44:OG:369:ALA:HB3	2.12	0.50
44:OI:247:ALA:C	44:OI:248:LEU:HD12	2.32	0.50
44:OK:115:VAL:O	44:OK:118:CYS:HB3	2.12	0.50
44:OK:261:PRO:HA	45:ON:394:PHE:CD2	2.45	0.50
44:OM:325:PRO:HG3	44:OM:355:ILE:CD1	2.41	0.50
45:ON:87:PRO:HA	45:ON:90:PHE:HD1	1.76	0.50
45:ON:184:ASN:OD1	45:ON:185:ALA:N	2.44	0.50
45:ON:187:LEU:HD21	45:ON:408:PHE:CE1	2.47	0.50
45:PB:289:LEU:HD11	45:PB:363:MET:HG2	1.94	0.50
44:PE:381:SER:O	44:PE:384:ILE:HG22	2.11	0.50
45:PH:66:MET:SD	45:PH:147:MET:HE1	2.51	0.50
45:PH:217:LEU:HD12	45:PH:220:PRO:HD3	1.93	0.50
45:PH:285:THR:OG1	45:PH:287:PRO:HD2	2.11	0.50
45:PJ:109:GLY:O	45:PJ:113:ILE:HB	2.12	0.50
45:PJ:202:ILE:HG23	45:PJ:300:MET:O	2.12	0.50
44:PK:102:ASN:HB3	44:PK:105:ARG:HG2	1.92	0.50
44:PK:126:ALA:O	44:PK:129:CYS:N	2.43	0.50
44:PK:176:GLN:NE2	44:PK:207:GLU:OE2	2.45	0.50
44:PK:268:MET:CB	44:PK:380:ASN:HB2	2.39	0.50
44:PM:23:LEU:HD11	44:PM:233:GLN:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:222:TYR:HD1	48:PN:501:GDP:C6	2.29	0.50
45:PN:398:TYR:CD1	45:PN:408:PHE:HZ	2.29	0.50
44:QA:68:LEU:HG	44:QA:93:ILE:CB	2.37	0.50
44:QA:183:GLU:HG2	44:QA:184:PRO:CD	2.42	0.50
44:QC:270:SER:CB	44:QC:378:ILE:HD13	2.41	0.50
44:QE:268:MET:HB2	44:QE:379:SER:O	2.12	0.50
45:QF:36:TYR:OH	45:QF:43:GLN:HB2	2.10	0.50
44:QI:55:GLU:HG3	44:QI:57:GLY:H	1.76	0.50
44:QI:387:VAL:O	44:QI:390:ARG:HG2	2.12	0.50
45:QJ:2:ARG:CD	44:QK:72:PRO:HG2	2.38	0.50
45:QJ:260:PHE:HB3	45:QJ:261:PRO:HD2	1.93	0.50
44:RC:179:THR:O	44:RC:179:THR:HG22	2.12	0.50
45:RD:22:GLU:HG2	45:RD:81:PHE:CG	2.46	0.50
45:RD:303:ALA:HB2	45:RD:377:MET:SD	2.51	0.50
45:RD:372:THR:HG21	45:RD:426:GLN:HE22	1.76	0.50
44:RE:135:PHE:O	44:RE:136:LEU:HD23	2.11	0.50
44:RE:252:ILE:O	44:RE:255:PHE:HD2	1.94	0.50
45:RF:11:GLN:HA	45:RF:14:ASN:OD1	2.11	0.50
45:RF:132:GLY:O	45:RF:133:PHE:HD1	1.95	0.50
45:RF:275:SER:HG	45:RF:278:SER:CB	2.24	0.50
44:RG:255:PHE:O	44:RG:258:ASN:N	2.41	0.50
45:RH:5:VAL:CG1	45:RH:62:ARG:HD2	2.39	0.50
45:RH:395:LEU:HG	45:RH:399:THR:CG2	2.42	0.50
45:RH:405:GLU:O	45:RH:409:THR:N	2.36	0.50
44:RI:123:ARG:O	44:RI:126:ALA:N	2.45	0.50
44:RI:174:SER:HB2	44:RI:177:VAL:HG12	1.93	0.50
44:RK:4:VAL:HG11	44:RK:52:PHE:CD1	2.46	0.50
45:RL:268:ILE:HG21	45:RL:368:VAL:HG22	1.92	0.50
45:RL:289:LEU:HD23	45:RL:292:GLN:NE2	2.26	0.50
45:RN:25:SER:O	45:RN:29:GLY:N	2.45	0.50
44:SA:132:LEU:HD23	44:SA:134:GLY:H	1.76	0.50
45:SB:131:GLN:O	45:SB:163:ILE:HG12	2.10	0.50
45:SB:309:ARG:HG2	45:SB:340:TYR:CA	2.41	0.50
44:SC:104:ALA:HB1	44:SC:408:TYR:O	2.12	0.50
44:SC:105:ARG:HB3	44:SC:411:GLU:CG	2.42	0.50
45:SD:70:PRO:HB3	45:SD:73:MET:HE1	1.93	0.50
45:SD:260:PHE:HA	44:SE:406:HIS:NE2	2.26	0.50
44:SE:165:SER:C	44:SE:166:LYS:HG3	2.32	0.50
44:SE:232:ALA:HA	44:SE:235:ILE:HD13	1.93	0.50
44:SE:423:GLU:HA	44:SE:426:ALA:HB3	1.93	0.50
45:SF:166:THR:HG1	45:SF:199:CYS:HA	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:256:ASN:C	45:SF:257:LEU:HD12	2.32	0.50
45:SJ:318:ARG:O	45:SJ:363:MET:HG2	2.11	0.50
44:SK:71:GLU:OE1	44:SK:73:THR:HB	2.11	0.50
45:SL:292:GLN:HE22	45:SL:298:ASN:CB	2.24	0.50
44:SM:248:LEU:CB	44:SM:355:ILE:HD12	2.41	0.50
45:SN:3:GLU:HG3	45:SN:127:CYS:HB2	1.93	0.50
45:SN:362:LYS:HG3	45:SN:362:LYS:O	2.12	0.50
45:TB:163:ILE:HG23	45:TB:251:ARG:NH1	2.27	0.50
45:TB:246:LEU:CD2	46:TC:501:GTP:H8	2.20	0.50
45:TB:297:LYS:HD2	45:TB:297:LYS:N	2.26	0.50
45:TB:418:LEU:O	45:TB:422:TYR:HB2	2.11	0.50
45:TD:60:VAL:HB	45:UD:281:TYR:HD2	1.76	0.50
45:TD:180:VAL:CG2	45:TD:183:TYR:HB2	2.36	0.50
45:TD:262:ARG:HB3	45:TD:418:LEU:CD1	2.42	0.50
45:TD:348:ASN:O	45:TD:349:ILE:HD13	2.11	0.50
45:TF:151:LEU:O	45:TF:154:LYS:N	2.44	0.50
45:TF:286:VAL:N	45:TF:287:PRO:HD2	2.26	0.50
44:TG:102:ASN:HB3	44:TG:105:ARG:HB2	1.94	0.50
45:TH:102:ALA:HB2	45:TH:398:TYR:HD1	1.75	0.50
45:TH:164:MET:HE2	45:TH:197:ASP:H	1.76	0.50
44:TI:311:LYS:N	44:TI:311:LYS:HD3	2.27	0.50
45:TJ:97:ALA:HB3	45:TJ:143:THR:HB	1.93	0.50
45:TJ:130:LEU:HB3	45:TJ:162:ARG:CZ	2.42	0.50
45:TJ:358:PRO:HG2	45:TJ:361:LEU:HD12	1.92	0.50
44:TK:14:ILE:HD11	44:TK:75:ILE:HD11	1.94	0.50
44:TK:289:ALA:C	44:TK:292:THR:HG22	2.31	0.50
45:TL:256:ASN:C	45:TL:257:LEU:HD12	2.32	0.50
45:TL:263:LEU:HG	45:TL:422:TYR:CE1	2.46	0.50
45:TL:318:ARG:CB	45:TL:364:ALA:HB3	2.38	0.50
45:TN:208:TYR:CE1	45:TN:225:LEU:HD11	2.46	0.50
44:UA:16:VAL:HG11	44:UA:138:PHE:HB3	1.93	0.50
44:UA:289:ALA:HA	44:UA:292:THR:HG22	1.93	0.50
44:UA:307:PRO:HB3	44:UA:312:TYR:OH	2.12	0.50
44:UC:247:ALA:HB1	45:UD:222:TYR:HE2	1.75	0.50
45:UD:64:ILE:HD13	45:UD:120:VAL:HG22	1.93	0.50
44:UE:54:SER:HB3	44:UE:64:ARG:NH1	2.27	0.50
45:UF:4:ILE:HB	45:UF:132:GLY:O	2.11	0.50
45:UF:250:LEU:O	45:UF:254:ALA:N	2.30	0.50
44:UG:356:ASN:OD1	44:UG:357:TYR:N	2.45	0.50
45:UH:405:GLU:HG2	45:UH:406:MET:N	2.27	0.50
45:UJ:107:THR:HG21	45:UJ:401:GLU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:336:LYS:HE2	45:UJ:336:LYS:HA	1.93	0.50
44:UK:136:LEU:HD22	44:UK:167:LEU:CD2	2.34	0.50
44:UK:200:VAL:CG2	44:UK:256:GLN:HB2	2.40	0.50
45:UL:117:LEU:HD22	45:UL:154:LYS:HD3	1.93	0.50
44:UM:223:THR:HG23	44:UM:225:THR:H	1.77	0.50
44:UM:352:LYS:HD2	45:UN:177:ASP:O	2.11	0.50
45:UN:303:ALA:O	45:UN:305:PRO:HD3	2.12	0.50
45:UN:370:ASN:OD1	45:UN:422:TYR:OH	2.29	0.50
45:VB:287:PRO:CA	45:VB:290:THR:HG22	2.38	0.50
44:VC:205:ASP:OD2	44:VC:304:LYS:N	2.44	0.50
45:VD:105:HIS:CG	45:VD:150:LEU:HD12	2.47	0.50
45:VF:166:THR:OG1	45:VF:198:GLU:O	2.30	0.50
45:VF:253:LEU:O	45:VF:257:LEU:HB2	2.11	0.50
45:VF:274:THR:HG23	45:VF:279:GLN:HB2	1.93	0.50
45:VF:295:ASP:OD2	45:VF:297:LYS:HG2	2.11	0.50
44:VG:115:VAL:HG22	44:VG:119:LEU:HD23	1.93	0.50
44:VG:200:VAL:HG12	44:VG:260:VAL:CG1	2.42	0.50
45:VH:257:LEU:CA	45:VH:312:THR:HG21	2.38	0.50
45:VH:388:MET:O	45:VH:388:MET:HG2	2.12	0.50
44:VI:103:PHE:CD2	44:VI:189:LEU:HD13	2.45	0.50
45:VJ:241:ARG:HG2	45:VJ:242:PHE:CE1	2.47	0.50
44:VK:9:VAL:CG1	44:VK:139:ASN:HB3	2.42	0.50
45:VN:198:GLU:OE2	45:VN:254:ALA:HA	2.12	0.50
44:WA:67:PHE:C	44:WA:68:LEU:HD12	2.31	0.50
44:WA:243:ARG:HH12	44:WA:244:PHE:HE2	1.60	0.50
44:WA:401:LYS:O	44:WA:402:ARG:HG2	2.10	0.50
45:WB:216:LYS:O	45:WB:216:LYS:HG3	2.11	0.50
45:WB:274:THR:OG1	45:WB:282:ARG:HD3	2.12	0.50
44:WC:265:ILE:HG23	44:WC:432:TYR:CZ	2.45	0.50
44:WE:67:PHE:C	44:WE:68:LEU:HD23	2.32	0.50
44:WE:265:ILE:O	44:WE:265:ILE:HG23	2.11	0.50
44:WE:372:MET:SD	44:WE:372:MET:N	2.84	0.50
45:WF:265:PHE:HB2	45:WF:374:ILE:CD1	2.41	0.50
44:WG:223:THR:HG23	44:WG:225:THR:N	2.26	0.50
45:WH:135:ILE:HG12	45:WH:164:MET:HE3	1.92	0.50
45:WH:254:ALA:O	45:WH:258:ILE:HD13	2.11	0.50
44:WI:37:PRO:O	44:WI:38:SER:HB2	2.12	0.50
44:WI:84:ARG:HH11	44:WI:85:GLN:NE2	2.09	0.50
44:WI:288:VAL:HG11	44:WI:327:ASP:CB	2.41	0.50
44:WI:394:LYS:HZ2	45:WJ:346:PRO:HB2	1.77	0.50
45:WJ:310:TYR:CE1	45:WJ:371:SER:HB2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:432:TYR:O	44:WK:436:GLY:N	2.45	0.50
44:WM:156:ARG:O	44:WM:160:ASP:N	2.34	0.50
45:WN:291:GLN:O	45:WN:295:ASP:N	2.44	0.50
1:6H:249:GLY:HA3	45:FF:279:GLN:OE1	2.10	0.50
1:6H:295:GLN:HG2	45:FH:362:LYS:HA	1.93	0.50
7:0F:105:ASN:ND2	44:EE:33:ASP:HB3	2.24	0.50
2:1A:37:THR:HG21	45:MF:320:ARG:HG3	1.93	0.50
21:1K:162:GLN:HB2	44:GC:282:TYR:CE2	2.45	0.50
26:1R:153:LYS:N	45:AF:78:ALA:HB1	2.26	0.50
2:2A:143:HIS:HB3	44:AI:32:PRO:HG3	1.92	0.50
28:2C:298:PRO:HB2	45:KJ:359:LYS:NZ	2.16	0.50
5:2D:59:GLY:CA	44:EK:279:GLU:HG3	2.41	0.50
31:2H:169:THR:HG21	44:MA:58:ALA:HA	1.93	0.50
26:2R:181:PHE:CE2	45:AJ:80:PRO:HB3	2.46	0.50
32:3I:220:LYS:NZ	45:GL:332:ASN:HA	2.27	0.50
28:4C:67:LYS:CD	44:LM:81:GLY:HA2	2.41	0.50
36:4S:206:TYR:CE1	45:WD:122:LYS:HG2	2.46	0.50
37:5A:57:PRO:HB2	45:KB:390:ARG:NH1	2.26	0.50
38:5G:47:GLU:OE2	44:OG:324:VAL:HG22	2.11	0.50
38:5G:120:GLU:HG3	38:5G:121:GLU:OE2	2.11	0.50
39:5I:66:SER:CA	39:5I:69:LYS:HD3	2.40	0.50
11:5Q:137:SER:O	11:5Q:140:THR:HG22	2.11	0.50
35:5R:12:LEU:HD13	45:LJ:361:LEU:HD11	1.93	0.50
35:5R:22:LYS:HG3	35:5R:23:GLU:N	2.26	0.50
35:5R:30:GLN:OE1	45:LJ:77:ARG:HB3	2.12	0.50
35:5R:255:VAL:CG1	44:CI:41:THR:HG23	2.42	0.50
35:5R:536:ARG:HD3	35:5R:609:LEU:HA	1.93	0.50
41:6G:138:LYS:HZ1	44:VG:308:ARG:HA	1.77	0.50
35:7R:52:TYR:HA	35:7R:55:ASP:OD2	2.11	0.50
35:7R:331:PRO:HB3	35:7R:359:TRP:CZ3	2.47	0.50
35:7R:456:TYR:CD1	35:7R:469:LYS:HG3	2.46	0.50
43:8P:91:UNK:O	43:8P:94:UNK:N	2.45	0.50
44:AA:86:LEU:HD23	44:AA:87:PHE:CE2	2.47	0.50
44:AA:277:SER:O	44:AA:281:ALA:N	2.45	0.50
44:AG:11:GLN:HG2	44:AG:74:VAL:HG21	1.94	0.50
44:AI:88:HIS:ND1	44:AI:90:GLU:HG2	2.26	0.50
45:AJ:7:ILE:HD11	45:AJ:120:VAL:CG2	2.41	0.50
44:AK:372:MET:N	44:AK:372:MET:SD	2.84	0.50
45:AL:67:ASP:OD2	45:AL:72:THR:HG21	2.12	0.50
45:AL:202:ILE:CG2	45:AL:207:LEU:HD21	2.42	0.50
45:AL:383:GLU:O	45:AL:386:THR:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:36:MET:CE	44:BA:37:PRO:HD2	2.41	0.50
45:BB:135:ILE:HB	45:BB:166:THR:HG22	1.93	0.50
44:BC:242:LEU:HD21	44:BC:252:ILE:HD12	1.94	0.50
45:BD:52:ASN:HD21	45:BD:86:ARG:HH22	1.58	0.50
44:BG:151:SER:O	44:BG:155:GLU:HG3	2.12	0.50
45:BJ:390:ARG:HD2	45:BJ:391:ARG:HD2	1.93	0.50
45:BL:65:LEU:HB2	45:BL:90:PHE:CD1	2.47	0.50
44:BM:88:HIS:HE1	44:CM:280:LYS:HE2	1.76	0.50
44:BM:387:VAL:HA	44:BM:390:ARG:CG	2.41	0.50
44:CA:7:ILE:O	44:CA:138:PHE:HD1	1.95	0.50
45:CB:217:LEU:HD12	45:CB:217:LEU:O	2.10	0.50
45:CD:74:ASP:HA	45:CD:77:ARG:HH21	1.76	0.50
44:CE:268:MET:CB	44:CE:380:ASN:HA	2.41	0.50
45:CF:211:CYS:SG	45:CF:215:LEU:HD12	2.52	0.50
45:CF:361:LEU:CB	45:CF:362:LYS:HB2	2.42	0.50
44:CG:17:GLY:HA2	44:CG:20:CYS:SG	2.52	0.50
44:CG:97:GLU:HG3	44:CG:105:ARG:HH12	1.77	0.50
44:CG:208:ALA:O	44:CG:212:ILE:HG12	2.12	0.50
45:CH:25:SER:CA	45:CH:30:ILE:HG22	2.40	0.50
44:CI:174:SER:OG	44:CI:207:GLU:HB2	2.11	0.50
44:CK:208:ALA:HB1	44:CK:302:MET:O	2.11	0.50
45:CL:252:LYS:HG3	44:CM:101:ASN:ND2	2.25	0.50
44:CM:184:PRO:HG3	44:CM:394:LYS:HE3	1.93	0.50
44:CM:270:SER:HB2	44:CM:378:ILE:HD13	1.93	0.50
44:DA:11:GLN:HA	44:DA:14:ILE:HG12	1.93	0.50
44:DA:189:LEU:HD11	44:DA:418:PHE:CE1	2.46	0.50
45:DB:65:LEU:HD21	45:DB:85:PHE:HD2	1.77	0.50
45:DB:113:ILE:HG13	45:DB:113:ILE:O	2.11	0.50
45:DB:374:ILE:HG12	45:DB:422:TYR:CE2	2.47	0.50
44:DC:105:ARG:NE	44:DC:110:ILE:HD13	2.26	0.50
44:DC:235:ILE:O	44:DC:238:LEU:N	2.43	0.50
44:DC:317:MET:O	44:DC:353:VAL:HA	2.12	0.50
44:DC:349:THR:HG22	45:DD:384:GLN:HE21	1.77	0.50
44:DG:9:VAL:HG22	44:DG:146:GLY:HA2	1.94	0.50
45:DJ:141:GLY:HA3	48:DJ:501:GDP:PA	2.51	0.50
45:DJ:200:MET:HG2	45:DJ:266:PHE:HB2	1.93	0.50
45:DJ:304:ASP:CG	45:DJ:306:ARG:HG2	2.31	0.50
45:DN:108:GLU:O	45:DN:111:GLU:HG3	2.10	0.50
45:DN:311:LEU:N	45:DN:370:ASN:O	2.45	0.50
44:EC:205:ASP:O	44:EC:209:ILE:HG13	2.12	0.50
45:ED:103:LYS:N	45:ED:401:GLU:OE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:2:ARG:HG3	45:EF:240:LEU:HD11	1.94	0.50
45:EF:36:TYR:CD1	45:EF:44:LEU:HD21	2.46	0.50
45:EH:239:CYS:SG	45:EH:248:SER:N	2.73	0.50
44:EI:271:SER:OG	44:EI:301:MET:SD	2.67	0.50
45:EJ:60:VAL:HG23	45:EJ:61:PRO:HD2	1.94	0.50
45:EJ:86:ARG:HG3	45:EJ:89:ASN:H	1.76	0.50
44:EK:304:LYS:HZ3	44:EK:390:ARG:HD2	1.72	0.50
45:EL:42:LEU:CA	45:EL:45:GLU:HG3	2.26	0.50
45:EL:73:MET:HA	45:EL:76:VAL:HG12	1.92	0.50
45:EL:259:PRO:CD	45:EL:260:PHE:H	2.23	0.50
45:EL:375:GLN:HG3	45:EL:379:LYS:NZ	2.26	0.50
44:EM:9:VAL:HA	44:EM:68:LEU:O	2.11	0.50
44:EM:202:VAL:HG22	44:EM:268:MET:SD	2.51	0.50
44:EM:312:TYR:HB2	44:EM:343:PHE:CD1	2.47	0.50
45:EN:148:GLY:O	45:EN:152:ILE:HG12	2.12	0.50
44:FA:172:TYR:CD2	44:FA:203:MET:CE	2.93	0.50
45:FB:4:ILE:CG2	45:FB:131:GLN:HB3	2.41	0.50
45:FB:91:VAL:HG21	45:FB:116:VAL:CG2	2.41	0.50
45:FD:6:HIS:HA	45:FD:134:GLN:NE2	2.25	0.50
44:FE:195:LEU:HD21	44:FE:264:ARG:NH2	2.27	0.50
45:FF:101:TRP:HD1	45:FF:145:SER:OG	1.95	0.50
45:FF:325:GLU:CA	45:FF:328:GLU:HG2	2.41	0.50
44:FG:209:ILE:CG2	44:FG:227:LEU:HD22	2.42	0.50
44:FG:265:ILE:HG12	44:FG:432:TYR:CE1	2.46	0.50
45:FH:348:ASN:C	45:FH:349:ILE:HD12	2.32	0.50
44:FI:334:THR:O	44:FI:337:THR:HB	2.11	0.50
45:FJ:348:ASN:OD1	45:FJ:349:ILE:HG12	2.12	0.50
44:FK:112:LYS:O	44:FK:115:VAL:HG12	2.11	0.50
44:FK:394:LYS:HZ2	45:FL:346:PRO:HB2	1.76	0.50
44:FM:109:THR:HG22	44:FM:110:ILE:CG1	2.40	0.50
44:FM:212:ILE:HG21	44:FM:275:ILE:HD12	1.93	0.50
45:FN:207:LEU:CD2	45:FN:210:ILE:HD12	2.38	0.50
44:GA:344:VAL:HG22	44:GA:345:ASP:N	2.26	0.50
45:GB:207:LEU:HD12	45:GB:225:LEU:HD13	1.93	0.50
45:GB:234:SER:O	45:GB:241:ARG:NH2	2.44	0.50
45:GB:236:VAL:HG13	45:GB:253:LEU:CD2	2.41	0.50
45:GB:406:MET:HA	45:GB:406:MET:CE	2.41	0.50
45:GD:65:LEU:HD11	45:GD:85:PHE:CE2	2.47	0.50
45:GD:285:THR:CB	45:GD:287:PRO:HD2	2.41	0.50
44:GE:82:THR:HG23	44:GE:83:TYR:CD1	2.47	0.50
44:GE:394:LYS:HG2	45:GF:346:PRO:CG	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:123:GLU:OE1	45:GF:123:GLU:HA	2.11	0.50
45:GF:175:VAL:CG2	45:GF:205:GLU:HG3	2.33	0.50
45:GF:282:ARG:NH2	45:GF:292:GLN:HG3	2.27	0.50
44:GG:213:CYS:CA	44:GG:217:LEU:HD12	2.41	0.50
44:GG:312:TYR:CD1	44:GG:381:SER:HB3	2.47	0.50
44:GI:276:ILE:HD13	44:GI:284:GLU:OE2	2.11	0.50
45:GJ:180:VAL:HG22	45:GJ:183:TYR:HB2	1.93	0.50
44:GK:221:ARG:HH22	45:GL:286:VAL:CG2	2.24	0.50
45:GL:178:THR:HG22	45:GL:180:VAL:H	1.77	0.50
44:GM:69:ASP:OD1	44:GM:70:LEU:N	2.44	0.50
45:GN:376:GLU:O	45:GN:380:ARG:HG2	2.12	0.50
44:HA:328:VAL:HG21	44:HA:355:ILE:HD11	1.93	0.50
44:HA:341:ILE:O	44:HA:341:ILE:HG22	2.11	0.50
45:HB:269:GLY:O	45:HB:366:THR:HA	2.11	0.50
44:HC:151:SER:HB3	44:HC:193:SER:CB	2.41	0.50
44:HC:390:ARG:HG3	44:HC:391:LEU:N	2.27	0.50
44:HC:407:TRP:CH2	45:HD:254:ALA:HB1	2.38	0.50
45:HD:47:ILE:HD13	45:HD:59:TYR:HE2	1.76	0.50
45:HD:420:SER:O	45:HD:423:GLN:HG3	2.11	0.50
44:HE:145:THR:HG22	46:HE:501:GTP:PG	2.51	0.50
44:HG:275:ILE:O	44:HG:275:ILE:HG23	2.12	0.50
45:HJ:54:ALA:HA	45:IJ:283:ALA:CB	2.41	0.50
45:HJ:116:VAL:O	45:HJ:119:VAL:HG22	2.12	0.50
45:HJ:376:GLU:HB3	45:HJ:380:ARG:NH2	2.27	0.50
44:HK:174:SER:HB2	44:HK:177:VAL:O	2.11	0.50
44:HK:256:GLN:HE22	45:HN:397:TRP:HH2	1.58	0.50
44:HK:420:GLU:HA	44:HK:423:GLU:HG2	1.94	0.50
44:HM:179:THR:HG23	45:HN:351:SER:OG	2.12	0.50
45:HN:105:HIS:CA	45:HN:147:MET:HE1	2.40	0.50
45:HN:289:LEU:HD13	45:HN:365:VAL:HG22	1.93	0.50
45:HN:295:ASP:OD1	45:HN:297:LYS:HG2	2.11	0.50
44:IA:107:HIS:O	44:IA:107:HIS:CG	2.64	0.50
44:IA:296:PHE:CE2	44:IA:335:ILE:HG21	2.43	0.50
45:IB:345:ILE:O	45:IB:345:ILE:HG23	2.11	0.50
45:IB:383:GLU:CA	45:IB:386:THR:HG22	2.39	0.50
44:IC:90:GLU:HG3	44:IC:121:ARG:NH1	2.27	0.50
45:ID:385:PHE:CE2	45:ID:412:GLU:HB2	2.47	0.50
44:IG:175:PRO:HG2	44:IG:304:LYS:CG	2.41	0.50
45:IH:8:GLN:HE21	45:IH:65:LEU:CG	2.14	0.50
45:IH:385:PHE:CE2	45:IH:412:GLU:HB2	2.44	0.50
44:II:292:THR:HG21	44:II:331:SER:CB	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:170:VAL:CG2	45:IJ:171:PRO:HD2	2.42	0.50
44:IK:21:TRP:HA	44:IK:21:TRP:CE3	2.47	0.50
44:IK:69:ASP:OD2	44:IK:74:VAL:HG11	2.11	0.50
44:IM:115:VAL:CG2	44:IM:153:LEU:HD23	2.41	0.50
45:IN:260:PHE:HB3	45:IN:261:PRO:HD2	1.94	0.50
44:JA:103:PHE:HD1	44:JA:189:LEU:HD22	1.77	0.50
44:JA:169:PHE:HB3	44:JA:204:LEU:CD1	2.40	0.50
44:JC:209:ILE:HG23	44:JC:302:MET:CE	2.41	0.50
45:JD:21:TRP:CZ3	45:JD:61:PRO:HB3	2.46	0.50
45:JD:290:THR:HG21	45:JD:329:GLN:HB3	1.93	0.50
44:JE:259:LEU:HD13	44:JE:314:ALA:CB	2.42	0.50
44:JI:137:VAL:CG1	44:JI:168:GLY:HA2	2.41	0.50
45:JJ:214:THR:HG23	45:JJ:215:LEU:N	2.26	0.50
45:JJ:282:ARG:HG2	45:JJ:283:ALA:N	2.27	0.50
45:JL:113:ILE:HA	45:JL:116:VAL:HG12	1.93	0.50
45:JN:178:THR:HB	45:JN:181:GLU:CG	2.39	0.50
45:JN:256:ASN:O	45:JN:257:LEU:HD23	2.12	0.50
44:KA:183:GLU:HA	44:KA:186:ASN:OD1	2.10	0.50
44:KA:208:ALA:O	44:KA:212:ILE:HG13	2.11	0.50
44:KA:217:LEU:CD1	44:KA:367:ASP:HB3	2.37	0.50
44:KA:305:CYS:O	44:KA:307:PRO:HD3	2.11	0.50
44:KE:75:ILE:HD12	44:KE:94:SER:HB2	1.94	0.50
44:KE:172:TYR:HD2	44:KE:203:MET:SD	2.34	0.50
45:KF:203:ASP:OD2	45:KF:302:ALA:N	2.41	0.50
45:KF:270:PHE:N	45:KF:300:MET:HE3	2.23	0.50
45:KF:271:ALA:HB1	45:KF:272:PRO:HA	1.94	0.50
44:KG:191:THR:OG1	44:KG:425:LEU:HD21	2.11	0.50
45:KH:285:THR:HG22	45:KH:288:GLU:HG3	1.93	0.50
44:KI:68:LEU:CD1	44:KI:93:ILE:HB	2.41	0.50
44:KI:242:LEU:CD2	44:KI:252:ILE:HG12	2.41	0.50
44:KI:333:ALA:O	44:KI:337:THR:HG23	2.12	0.50
44:KK:311:LYS:HB2	44:KK:344:VAL:HB	1.92	0.50
44:KK:417:GLU:O	44:KK:420:GLU:HG2	2.11	0.50
44:KM:384:ILE:HG21	44:KM:432:TYR:CE1	2.46	0.50
45:KN:22:GLU:HG3	45:KN:81:PHE:HE2	1.77	0.50
45:KN:130:LEU:O	45:KN:162:ARG:NE	2.44	0.50
45:KN:238:CYS:SG	45:KN:239:CYS:N	2.84	0.50
45:LB:30:ILE:HG13	45:LB:51:TYR:CZ	2.46	0.50
45:LB:245:GLN:O	45:LB:246:LEU:HD12	2.12	0.50
44:LC:259:LEU:HD13	44:LC:268:MET:HE1	1.93	0.50
44:LE:71:GLU:OE2	44:LE:73:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:434:GLU:OE2	44:LE:437:ILE:HD11	2.11	0.50
45:LF:258:ILE:HG12	45:LF:266:PHE:HZ	1.76	0.50
45:LF:293:MET:HE1	45:LF:294:PHE:CE2	2.47	0.50
44:LG:273:ALA:O	44:LG:375:VAL:HG22	2.12	0.50
45:LL:86:ARG:HA	45:ML:281:TYR:CE2	2.46	0.50
45:LL:272:PRO:HD3	45:LL:289:LEU:HD11	1.94	0.50
44:LM:407:TRP:CE3	45:LN:255:VAL:HA	2.47	0.50
45:LN:18:ALA:O	45:LN:22:GLU:HG3	2.12	0.50
45:LN:245:GLN:C	45:LN:246:LEU:HD12	2.32	0.50
45:MB:184:ASN:OD1	45:MB:185:ALA:N	2.44	0.50
44:ME:119:LEU:CD1	44:ME:156:ARG:HH11	2.25	0.50
44:ME:257:THR:HA	45:MH:397:TRP:CE2	2.46	0.50
45:MF:321:MET:HB2	45:MF:363:MET:SD	2.51	0.50
45:MH:3:GLU:HB2	45:MH:49:VAL:HA	1.94	0.50
45:MH:324:LYS:O	45:MH:328:GLU:HG2	2.11	0.50
44:MI:223:THR:HB	45:MJ:322:SER:CB	2.41	0.50
44:MI:325:PRO:HB3	45:ML:222:TYR:HE1	1.76	0.50
45:MJ:229:VAL:HG12	45:MJ:233:MET:SD	2.52	0.50
45:ML:24:ILE:HD11	45:ML:234:SER:HB3	1.94	0.50
45:ML:178:THR:CG2	45:ML:180:VAL:HG12	2.42	0.50
44:NA:11:GLN:HA	44:NA:14:ILE:CB	2.40	0.50
44:NA:213:CYS:O	44:NA:217:LEU:HB2	2.11	0.50
45:NB:7:ILE:HG23	45:NB:135:ILE:CD1	2.39	0.50
45:NB:206:ALA:O	45:NB:210:ILE:HG13	2.11	0.50
45:ND:309:ARG:HD3	45:ND:426:GLN:HG2	1.93	0.50
45:NF:233:MET:O	45:NF:236:VAL:HG12	2.11	0.50
44:NG:287:SER:O	44:NG:290:GLU:HG2	2.11	0.50
44:NG:331:SER:O	44:NG:334:THR:HG22	2.12	0.50
44:NG:416:GLY:O	44:NG:419:SER:N	2.43	0.50
44:NI:191:THR:HG21	44:NI:388:PHE:HE1	1.76	0.50
44:NK:177:VAL:HG12	45:NL:331:LEU:CD2	2.36	0.50
45:NL:207:LEU:HD13	45:NL:225:LEU:CG	2.41	0.50
44:NM:60:LYS:NZ	44:OM:282:TYR:O	2.31	0.50
44:NM:264:ARG:HH21	44:NM:428:LEU:HD13	1.76	0.50
44:OA:430:LYS:NZ	44:OA:433:GLU:HG3	2.26	0.50
44:OC:349:THR:O	45:OF:179:VAL:HG23	2.11	0.50
45:OD:146:GLY:HA2	45:OD:149:THR:HG22	1.94	0.50
45:OD:251:ARG:O	45:OD:254:ALA:HB3	2.12	0.50
45:OD:315:ALA:C	45:OD:316:LEU:HD22	2.32	0.50
44:OE:270:SER:HA	44:OE:377:MET:O	2.12	0.50
45:OF:119:VAL:HA	45:OF:122:LYS:HZ3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:115:VAL:O	44:OG:118:CYS:HB3	2.12	0.50
44:OG:215:ARG:HH22	44:OG:300:ASN:CG	2.15	0.50
44:OG:306:ASP:OD2	44:OG:309:HIS:N	2.45	0.50
45:OH:133:PHE:HB2	45:OH:164:MET:HE1	1.94	0.50
45:OH:180:VAL:HG12	45:OH:180:VAL:O	2.11	0.50
45:OH:257:LEU:HA	45:OH:312:THR:HG21	1.92	0.50
45:OH:342:VAL:HG11	45:OH:345:ILE:HD11	1.92	0.50
44:OI:49:PHE:HD2	44:OI:53:PHE:HB2	1.77	0.50
44:OI:319:TYR:HB2	44:OI:355:ILE:CD1	2.41	0.50
44:OI:348:PRO:HD2	45:OL:388:MET:CE	2.42	0.50
45:OJ:173:PRO:HG3	45:OJ:380:ARG:NE	2.27	0.50
44:OK:102:ASN:OD1	44:OK:411:GLU:HG2	2.12	0.50
44:OK:115:VAL:HG11	44:OK:152:LEU:HD21	1.94	0.50
44:OK:183:GLU:HG2	44:OK:184:PRO:HD3	1.94	0.50
45:OL:153:SER:O	45:OL:156:ARG:HB3	2.11	0.50
45:ON:3:GLU:OE1	45:ON:3:GLU:N	2.44	0.50
44:PA:136:LEU:HA	44:PA:167:LEU:O	2.12	0.50
45:PB:113:ILE:HD13	45:PB:150:LEU:HD22	1.92	0.50
45:PB:135:ILE:O	45:PB:167:PHE:HD1	1.94	0.50
44:PC:289:ALA:O	44:PC:292:THR:HG22	2.12	0.50
45:PD:5:VAL:HG11	45:PD:159:TYR:HD2	1.73	0.50
45:PD:253:LEU:O	45:PD:257:LEU:HB2	2.12	0.50
44:PE:276:ILE:HG23	44:PE:281:ALA:HB1	1.92	0.50
45:PH:69:GLU:OE2	45:PH:72:THR:HG22	2.11	0.50
45:PH:257:LEU:HA	45:PH:312:THR:HG21	1.94	0.50
45:PH:325:GLU:HA	45:PH:328:GLU:CG	2.41	0.50
44:PK:100:ALA:O	45:PL:255:VAL:HG11	2.12	0.50
44:PM:107:HIS:CD2	44:PM:151:SER:HG	2.30	0.50
44:PM:312:TYR:HA	44:PM:380:ASN:O	2.12	0.50
45:PN:372:THR:HA	45:PN:422:TYR:HE2	1.73	0.50
44:QA:9:VAL:HG23	44:QA:68:LEU:HB2	1.94	0.50
44:QA:256:GLN:HB2	44:QA:260:VAL:HG21	1.94	0.50
45:QB:247:ASN:ND2	44:QC:71:GLU:OE1	2.44	0.50
44:QC:326:LYS:O	44:QC:329:ASN:HB2	2.12	0.50
44:QC:426:ALA:O	44:QC:429:GLU:HB2	2.11	0.50
45:QD:28:HIS:O	45:QD:43:GLN:HB3	2.10	0.50
45:QD:304:ASP:OD1	45:QD:306:ARG:HG2	2.12	0.50
45:QF:314:SER:CA	45:QF:350:LYS:HB3	2.42	0.50
44:QG:141:VAL:CG2	44:QG:190:SER:HB2	2.41	0.50
44:QG:259:LEU:CD1	44:QG:316:SER:HB3	2.40	0.50
44:QI:208:ALA:CA	44:QI:304:LYS:HZ3	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:232:ALA:O	45:QJ:236:VAL:N	2.39	0.50
45:QL:290:THR:HA	45:QL:293:MET:CG	2.40	0.50
45:QL:415:MET:O	45:QL:419:VAL:HG23	2.12	0.50
44:QM:20:CYS:O	44:QM:23:LEU:HB3	2.11	0.50
44:QM:88:HIS:H	44:QM:91:GLN:NE2	2.08	0.50
44:QM:269:LEU:HG	44:QM:301:MET:CE	2.41	0.50
44:QM:317:MET:SD	44:QM:319:TYR:HE1	2.34	0.50
45:QN:66:MET:CE	45:QN:116:VAL:HG21	2.42	0.50
44:RA:313:MET:HA	44:RA:313:MET:CE	2.36	0.50
44:RC:3:GLU:HG3	44:RC:129:CYS:CB	2.42	0.50
44:RC:156:ARG:O	44:RC:159:VAL:HG12	2.12	0.50
44:RC:217:LEU:HB3	44:RC:219:ILE:HG13	1.92	0.50
44:RC:393:HIS:HE1	44:RC:397:LEU:HD21	1.76	0.50
44:RE:115:VAL:CG2	44:RE:156:ARG:HD2	2.42	0.50
44:RE:278:ALA:HB1	44:RE:282:TYR:HE2	1.77	0.50
45:RF:173:PRO:HG3	45:RF:380:ARG:HD2	1.94	0.50
44:RI:236:SER:O	44:RI:240:ALA:HB2	2.11	0.50
44:RI:429:GLU:O	44:RI:433:GLU:N	2.30	0.50
45:RJ:54:ALA:HA	45:SJ:283:ALA:CB	2.40	0.50
45:RJ:68:LEU:HD11	45:RJ:95:THR:OG1	2.11	0.50
45:RJ:139:LEU:HD23	45:RJ:188:SER:OG	2.11	0.50
45:RJ:152:ILE:HG22	45:RJ:195:ASN:CB	2.42	0.50
44:RK:19:ALA:HA	44:RK:22:GLU:OE1	2.11	0.50
44:RK:259:LEU:CD1	44:RK:268:MET:HE1	2.40	0.50
45:RL:256:ASN:CG	44:RM:181:VAL:HG22	2.32	0.50
44:RM:203:MET:HB2	44:RM:269:LEU:CB	2.34	0.50
44:RM:243:ARG:HG3	44:RM:244:PHE:CD2	2.46	0.50
45:RN:8:GLN:HE22	45:RN:17:GLY:HA3	1.76	0.50
44:SA:1:MET:HE1	45:SB:70:PRO:HG2	1.93	0.50
44:SA:155:GLU:HG2	44:SA:197:HIS:NE2	2.26	0.50
44:SA:313:MET:HG2	44:SA:381:SER:HA	1.93	0.50
44:SC:344:VAL:HG11	44:SC:346:TRP:CE2	2.46	0.50
45:SD:1:MET:CE	45:SD:129:CYS:HB3	2.41	0.50
45:SD:206:ALA:HB3	45:SD:300:MET:O	2.12	0.50
45:SD:289:LEU:HD11	45:SD:363:MET:CG	2.38	0.50
45:SD:315:ALA:C	45:SD:316:LEU:HD12	2.32	0.50
44:SE:405:VAL:HG22	44:SE:418:PHE:CE1	2.46	0.50
44:SG:278:ALA:HB2	44:SG:369:ALA:CB	2.42	0.50
45:SH:20:PHE:CE1	45:SH:233:MET:HB2	2.47	0.50
44:SI:206:ASN:HA	44:SI:209:ILE:HD12	1.93	0.50
45:SJ:215:LEU:CD1	45:SJ:228:LEU:HD11	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:54:ALA:HA	45:TL:283:ALA:CB	2.36	0.50
45:SL:114:ASP:OD1	45:SL:115:SER:N	2.45	0.50
45:SL:170:VAL:HG23	45:SL:171:PRO:HD2	1.93	0.50
45:SN:14:ASN:OD1	45:SN:65:LEU:HG	2.12	0.50
44:TA:30:ILE:HG21	44:TA:34:GLY:HA2	1.94	0.50
44:TA:88:HIS:ND1	44:TA:89:PRO:HD2	2.26	0.50
45:TD:58:ARG:CZ	45:UD:280:GLN:HG2	2.42	0.50
44:TE:344:VAL:HG21	44:TE:346:TRP:NE1	2.26	0.50
45:TF:19:LYS:HE3	45:TF:226:ASN:CB	2.42	0.50
45:TF:65:LEU:O	45:TF:91:VAL:HG22	2.11	0.50
45:TF:81:PHE:O	45:TF:84:LEU:HD13	2.11	0.50
45:TF:229:VAL:HG12	45:TF:233:MET:CG	2.42	0.50
45:TF:286:VAL:HG13	45:TF:321:MET:CE	2.42	0.50
44:TG:90:GLU:OE1	44:UG:280:LYS:HE3	2.12	0.50
44:TG:387:VAL:O	44:TG:390:ARG:HG3	2.12	0.50
45:TH:317:PHE:HA	45:TH:365:VAL:HG22	1.94	0.50
44:TI:184:PRO:HB3	44:TI:394:LYS:CD	2.42	0.50
44:TI:390:ARG:HG3	44:TI:391:LEU:H	1.76	0.50
45:TJ:207:LEU:HG	45:TJ:300:MET:HE3	1.94	0.50
45:TJ:287:PRO:CA	45:TJ:290:THR:HG22	2.39	0.50
44:TK:79:ARG:O	44:TK:84:ARG:HB3	2.12	0.50
44:TK:277:SER:O	44:TK:281:ALA:HB2	2.11	0.50
45:TL:139:LEU:HD13	45:TL:188:SER:OG	2.12	0.50
45:TL:377:MET:O	45:TL:381:VAL:HG23	2.12	0.50
44:TM:102:ASN:HB3	44:TM:105:ARG:HG3	1.93	0.50
45:TN:293:MET:HE3	45:TN:367:PHE:HA	1.92	0.50
44:UA:214:ARG:HH11	44:UA:214:ARG:HG2	1.76	0.50
45:UB:284:LEU:HD22	45:UB:285:THR:HG22	1.92	0.50
44:UE:26:LEU:CD2	44:UE:363:VAL:HA	2.41	0.50
45:UF:113:ILE:CD1	45:UF:154:LYS:HE2	2.41	0.50
44:UG:310:GLY:HA3	44:UG:383:ALA:CB	2.37	0.50
45:UH:326:VAL:O	45:UH:330:MET:HB2	2.12	0.50
44:UI:288:VAL:HA	44:UI:291:ILE:HG12	1.94	0.50
45:UJ:133:PHE:CD2	45:UJ:164:MET:HE1	2.43	0.50
45:UJ:324:LYS:HB2	44:UK:210:TYR:CE1	2.47	0.50
45:UL:87:PRO:O	45:UL:90:PHE:HB2	2.12	0.50
44:UM:270:SER:HB2	44:UM:377:MET:O	2.12	0.50
44:UM:344:VAL:HG21	44:UM:346:TRP:CE2	2.47	0.50
45:UN:4:ILE:HD11	45:UN:131:GLN:HB3	1.92	0.50
45:UN:221:THR:HG23	45:UN:224:ASP:H	1.77	0.50
44:VA:182:VAL:C	44:VA:184:PRO:HD2	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:405:VAL:HG12	44:VA:409:VAL:CG2	2.41	0.50
45:VB:15:GLN:NE2	45:VB:72:THR:OG1	2.45	0.50
45:VB:215:LEU:HD22	45:VB:217:LEU:HD23	1.92	0.50
44:VC:172:TYR:HB3	44:VC:173:PRO:HD2	1.93	0.50
44:VC:386:GLU:HA	44:VC:389:SER:OG	2.11	0.50
44:VC:426:ALA:O	44:VC:430:LYS:N	2.31	0.50
45:VD:52:ASN:HB2	45:VD:62:ARG:NH2	2.26	0.50
45:VD:69:GLU:OE2	45:VD:72:THR:HG22	2.11	0.50
45:VD:102:ALA:HB1	45:VD:401:GLU:HB2	1.92	0.50
44:VE:88:HIS:CE1	44:VE:90:GLU:HG2	2.47	0.50
44:VE:100:ALA:O	45:VF:255:VAL:HG21	2.11	0.50
44:VE:307:PRO:HB3	44:VE:312:TYR:OH	2.12	0.50
44:VE:344:VAL:HG22	44:VE:345:ASP:N	2.27	0.50
45:VF:289:LEU:HB3	45:VF:365:VAL:HG21	1.93	0.50
45:VF:299:MET:CE	45:VF:305:PRO:HB3	2.41	0.50
44:VG:276:ILE:HG23	44:VG:281:ALA:CB	2.41	0.50
44:VG:288:VAL:O	44:VG:291:ILE:HG12	2.12	0.50
45:VH:20:PHE:CD1	45:VH:233:MET:HB2	2.47	0.50
45:VH:204:ASN:HA	45:VH:207:LEU:HD12	1.93	0.50
44:VK:154:LEU:HD13	44:VK:198:THR:OG1	2.11	0.50
45:VL:197:ASP:HB3	45:VL:198:GLU:OE1	2.12	0.50
45:VL:314:SER:OG	45:VL:368:VAL:O	2.26	0.50
45:VN:242:PHE:HB3	45:VN:356:ILE:CG1	2.42	0.50
44:WA:101:ASN:HA	44:WA:144:GLY:HA3	1.94	0.50
44:WA:272:TYR:CE1	44:WA:376:CYS:HB2	2.46	0.50
44:WA:361:THR:HG22	44:WA:362:VAL:N	2.26	0.50
45:WB:138:SER:CA	45:WB:169:VAL:HB	2.42	0.50
45:WB:396:HIS:HA	45:WB:399:THR:OG1	2.12	0.50
45:WD:36:TYR:CD2	45:WD:44:LEU:HD21	2.47	0.50
44:WE:179:THR:O	45:WF:350:LYS:HA	2.12	0.50
44:WE:238:LEU:HD21	44:WE:255:PHE:HE2	1.74	0.50
45:WF:4:ILE:CG2	45:WF:131:GLN:HB3	2.40	0.50
44:WG:159:VAL:HG22	44:WG:159:VAL:O	2.11	0.50
45:WH:140:GLY:O	45:WH:184:ASN:ND2	2.44	0.50
45:WH:317:PHE:CG	45:WH:321:MET:HE1	2.46	0.50
45:WH:415:MET:HE2	45:WH:415:MET:HA	1.94	0.50
44:WI:264:ARG:HH22	44:WI:427:ALA:HB3	1.76	0.50
45:WJ:217:LEU:HD12	45:WJ:217:LEU:O	2.12	0.50
44:WM:3:GLU:HA	44:WM:51:THR:CB	2.42	0.50
44:WM:101:ASN:HD21	44:WM:182:VAL:HG12	1.77	0.50
45:WN:372:THR:HA	45:WN:422:TYR:CE2	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0D:224:ARG:HH21	35:7R:493:GLY:HA3	1.76	0.50
15:0V:24:ARG:NH1	44:MM:430:LYS:HG3	2.27	0.50
17:1B:220:GLN:HA	44:KC:221:ARG:HB2	1.94	0.50
17:1B:306:VAL:HG12	45:JD:56:GLY:O	2.11	0.50
4:1C:73:PRO:HG3	45:DL:55:THR:HB	1.94	0.50
20:1J:50:LYS:HG2	45:HD:53:GLU:HG2	1.92	0.50
10:1N:10:TYR:CE1	45:IJ:53:GLU:HB2	2.46	0.50
25:1P:165:LEU:HD11	44:SI:58:ALA:HB3	1.93	0.50
16:1X:1:MET:HB3	44:ME:249:ASN:ND2	2.26	0.50
30:2G:14:TYR:CE1	44:KG:339:ARG:HD2	2.47	0.50
27:2W:234:GLN:CD	45:KN:56:GLY:H	2.14	0.50
2:3A:39:TYR:OH	44:MM:78:VAL:HG13	2.11	0.50
31:4H:169:THR:HG22	44:MI:57:GLY:O	2.11	0.50
37:5D:56:ILE:CD1	45:KN:391:ARG:HD3	2.41	0.50
39:5J:97:LYS:HE3	39:5J:97:LYS:CA	2.24	0.50
39:5K:96:SER:HA	44:JM:434:GLU:CG	2.41	0.50
35:5R:44:TYR:C	35:5R:45:ILE:HD13	2.31	0.50
36:5S:100:LEU:O	36:5S:100:LEU:HD23	2.12	0.50
35:6R:323:LEU:HD23	45:CN:276:ARG:NH1	2.15	0.50
44:AA:182:VAL:O	44:AA:182:VAL:HG22	2.12	0.50
45:AB:218:THR:C	45:AB:220:PRO:HD3	2.32	0.50
45:AF:325:GLU:CA	45:AF:328:GLU:HG2	2.37	0.50
45:AH:262:ARG:HH22	45:AH:421:GLU:CD	2.15	0.50
45:AH:268:ILE:O	45:AH:300:MET:HG2	2.11	0.50
44:AI:283:HIS:NE2	44:MI:60:LYS:HE2	2.26	0.50
44:AI:297:GLU:CD	44:AI:299:ALA:H	2.15	0.50
45:AJ:34:GLY:O	45:AJ:58:ARG:HA	2.12	0.50
44:AK:229:ARG:HH12	44:AK:366:GLY:HA2	1.77	0.50
44:AM:270:SER:C	44:AM:302:MET:HE3	2.32	0.50
44:AM:301:MET:HE3	44:AM:301:MET:CA	2.40	0.50
44:BC:93:ILE:HD12	44:BC:93:ILE:H	1.76	0.50
44:BE:204:LEU:HD22	44:BE:231:ILE:HD12	1.93	0.50
45:BF:203:ASP:OD2	45:BF:377:MET:HE1	2.10	0.50
44:BG:166:LYS:C	44:BG:167:LEU:HD12	2.31	0.50
45:BH:58:ARG:O	45:BH:58:ARG:HG3	2.10	0.50
44:BI:141:VAL:HG21	44:BI:172:TYR:CE1	2.47	0.50
44:BI:229:ARG:HH11	44:BI:229:ARG:HG2	1.77	0.50
44:BI:259:LEU:O	44:BI:261:PRO:HD3	2.11	0.50
44:BI:407:TRP:HE3	45:BJ:255:VAL:HG22	1.76	0.50
45:BJ:32:PRO:HG3	45:BJ:81:PHE:CZ	2.47	0.50
45:BJ:105:HIS:NE2	45:BJ:150:LEU:HB2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:208:ALA:HB3	44:BK:302:MET:O	2.11	0.50
45:BL:3:GLU:CD	45:BL:127:CYS:HB2	2.32	0.50
45:BN:135:ILE:O	45:BN:166:THR:HA	2.12	0.50
45:CB:114:ASP:O	45:CB:117:LEU:HB3	2.12	0.50
45:CB:130:LEU:HD23	45:CB:162:ARG:HG3	1.93	0.50
45:CB:240:LEU:O	45:CB:240:LEU:HD23	2.12	0.50
45:CB:296:ALA:HB1	45:CB:305:PRO:HD2	1.94	0.50
45:CD:60:VAL:CG2	45:CD:86:ARG:HD2	2.42	0.50
45:CD:98:GLY:H	45:CD:143:THR:CG2	2.25	0.50
44:CE:181:VAL:O	44:CE:184:PRO:HD2	2.11	0.50
44:CE:372:MET:HE3	44:CE:372:MET:HA	1.92	0.50
45:CH:86:ARG:HD2	45:DH:281:TYR:CD1	2.47	0.50
45:CH:170:VAL:HG13	45:CH:170:VAL:O	2.12	0.50
45:CH:303:ALA:N	45:CH:377:MET:HE2	2.26	0.50
44:CI:229:ARG:NH1	44:CI:366:GLY:HA2	2.26	0.50
44:CI:284:GLU:CD	44:CI:286:LEU:H	2.15	0.50
45:CL:310:TYR:O	45:CL:342:VAL:HG12	2.12	0.50
45:CN:265:PHE:HB2	45:CN:374:ILE:HD13	1.92	0.50
44:DA:216:ASN:ND2	44:DA:275:ILE:O	2.34	0.50
45:DB:118:ASP:C	45:DB:122:LYS:HZ2	2.14	0.50
45:DB:290:THR:O	45:DB:293:MET:HG2	2.11	0.50
45:DB:325:GLU:HB3	44:DC:221:ARG:NH2	2.26	0.50
45:DD:190:HIS:CE1	45:DD:414:ASN:HD22	2.29	0.50
45:DF:162:ARG:NE	45:DF:162:ARG:HA	2.24	0.50
44:DI:141:VAL:HG11	44:DI:172:TYR:HA	1.94	0.50
44:DI:155:GLU:HG2	44:DI:197:HIS:CE1	2.47	0.50
44:DI:377:MET:O	44:DI:378:ILE:HD13	2.12	0.50
45:DJ:322:SER:O	45:DJ:325:GLU:HG2	2.12	0.50
44:DK:89:PRO:HG3	44:EK:280:LYS:HE2	1.93	0.50
45:DL:396:HIS:HA	45:DL:399:THR:OG1	2.12	0.50
44:DM:20:CYS:HA	44:DM:232:ALA:HB1	1.93	0.50
44:DM:217:LEU:HD22	44:DM:367:ASP:CB	2.26	0.50
45:DN:377:MET:SD	45:DN:378:PHE:N	2.85	0.50
44:EA:115:VAL:HG21	44:EA:152:LEU:HG	1.94	0.50
44:EA:217:LEU:HD13	44:EA:367:ASP:HB3	1.92	0.50
44:EA:313:MET:HG2	44:EA:346:TRP:CH2	2.46	0.50
44:EC:298:PRO:CB	44:EC:307:PRO:HD2	2.39	0.50
44:EE:103:PHE:CE1	44:EE:148:GLY:HA2	2.46	0.50
45:EF:17:GLY:O	45:EF:21:TRP:N	2.33	0.50
45:EF:163:ILE:HD11	45:EF:250:LEU:CD1	2.41	0.50
44:EG:236:SER:O	44:EG:240:ALA:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:339:ARG:HG3	44:EG:339:ARG:O	2.12	0.50
45:EH:31:ASP:HB3	45:EH:32:PRO:CD	2.42	0.50
45:EH:61:PRO:CD	45:EH:84:LEU:HB3	2.42	0.50
44:EI:51:THR:HG22	44:EI:52:PHE:CD1	2.47	0.50
44:EI:105:ARG:HG2	44:EI:411:GLU:OE1	2.12	0.50
44:EI:254:GLU:CG	45:EJ:98:GLY:HA2	2.25	0.50
45:EJ:131:GLN:NE2	44:EK:97:GLU:OE1	2.39	0.50
44:EK:26:LEU:HD21	44:EK:364:PRO:HD3	1.94	0.50
45:EL:86:ARG:HH11	45:FL:281:TYR:HB2	1.75	0.50
45:EL:113:ILE:CD1	45:EL:150:LEU:HD22	2.39	0.50
44:EM:70:LEU:HD11	44:EM:149:LEU:HG	1.94	0.50
44:EM:97:GLU:HG2	44:EM:105:ARG:HH22	1.76	0.50
44:EM:346:TRP:HZ3	45:EN:388:MET:HE1	1.76	0.50
45:EN:34:GLY:O	45:EN:58:ARG:HA	2.12	0.50
45:EN:46:ARG:O	45:EN:49:VAL:HG23	2.11	0.50
45:EN:102:ALA:HB1	45:EN:401:GLU:CB	2.42	0.50
44:FA:274:PRO:HD3	44:FA:291:ILE:HB	1.94	0.50
44:FC:96:LYS:HB3	45:FD:1:MET:CE	2.38	0.50
44:FC:107:HIS:CE1	44:FC:152:LEU:HD13	2.31	0.50
44:FC:224:TYR:HD1	44:FC:227:LEU:HD12	1.75	0.50
44:FC:267:PHE:CG	44:FC:388:PHE:HZ	2.29	0.50
45:FD:86:ARG:CD	45:GD:281:TYR:HB3	2.41	0.50
45:FF:9:GLY:N	45:FF:66:MET:HE2	2.26	0.50
45:FF:151:LEU:O	45:FF:155:VAL:HG23	2.11	0.50
45:FH:199:CYS:HB3	45:FH:265:PHE:CE1	2.46	0.50
44:FI:87:PHE:HB3	44:FI:91:GLN:HE21	1.76	0.50
44:FM:149:LEU:HD13	44:FM:152:LEU:CD2	2.37	0.50
45:FN:186:THR:HG23	45:FN:415:MET:SD	2.51	0.50
44:GA:102:ASN:HB3	44:GA:105:ARG:CB	2.42	0.50
44:GE:313:MET:HE2	44:GE:382:THR:HG22	1.94	0.50
45:GF:150:LEU:HD21	45:GF:154:LYS:NZ	2.27	0.50
45:GF:321:MET:SD	45:GF:353:ILE:HD12	2.52	0.50
45:GH:143:THR:O	45:GH:146:GLY:N	2.44	0.50
45:GH:192:LEU:HD21	45:GH:199:CYS:SG	2.51	0.50
45:GJ:135:ILE:O	45:GJ:166:THR:HA	2.11	0.50
44:GK:24:PHE:HE1	44:GK:52:PHE:CE2	2.28	0.50
44:GK:317:MET:HA	44:GK:377:MET:HB3	1.94	0.50
45:GL:245:GLN:O	45:GL:246:LEU:HD12	2.12	0.50
44:GM:93:ILE:HD12	44:GM:93:ILE:H	1.76	0.50
45:GN:113:ILE:HA	45:GN:116:VAL:HG12	1.93	0.50
45:GN:317:PHE:N	45:GN:352:SER:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:325:GLU:HA	45:GN:328:GLU:CG	2.42	0.50
44:HA:278:ALA:HB2	44:HA:369:ALA:CB	2.39	0.50
45:HB:377:MET:O	45:HB:381:VAL:HG23	2.12	0.50
44:HE:268:MET:HB3	44:HE:380:ASN:HB2	1.92	0.50
44:HE:285:GLN:HG2	44:HE:286:LEU:N	2.25	0.50
45:HF:242:PHE:HB3	45:HF:356:ILE:CG1	2.42	0.50
44:HG:62:VAL:O	44:HG:62:VAL:HG23	2.11	0.50
44:HG:301:MET:CE	44:HG:307:PRO:CD	2.87	0.50
45:HJ:253:LEU:O	45:HJ:257:LEU:HD13	2.11	0.50
45:HJ:318:ARG:NH1	45:HJ:358:PRO:HG3	2.24	0.50
44:HK:291:ILE:CD1	44:HK:373:ARG:HB3	2.41	0.50
45:HL:359:LYS:HD2	45:HL:359:LYS:O	2.12	0.50
44:HM:109:THR:HG22	44:HM:110:ILE:HG23	1.93	0.50
44:HM:323:VAL:HG11	44:HM:355:ILE:HG12	1.92	0.50
45:HN:286:VAL:CB	45:HN:287:PRO:CD	2.88	0.50
45:HN:378:PHE:HB3	45:HN:419:VAL:CG2	2.42	0.50
44:IA:252:ILE:HA	44:IA:255:PHE:CE2	2.47	0.50
45:IB:2:ARG:C	45:IB:131:GLN:HB2	2.32	0.50
45:IB:99:ASN:C	45:IB:142:GLY:HA3	2.32	0.50
45:IB:254:ALA:HA	45:IB:257:LEU:HD21	1.94	0.50
45:IB:271:ALA:N	45:IB:365:VAL:O	2.40	0.50
44:IC:98:ASP:OD1	44:IC:99:ALA:N	2.44	0.50
44:IC:274:PRO:HD2	44:IC:374:ALA:HA	1.93	0.50
45:ID:377:MET:HA	45:ID:380:ARG:HG2	1.94	0.50
44:IE:73:THR:HA	45:IF:46:ARG:HH21	1.76	0.50
45:IF:103:LYS:HG3	45:IF:107:THR:CG2	2.42	0.50
45:IF:113:ILE:O	45:IF:116:VAL:HG12	2.11	0.50
45:IF:343:GLU:OE2	45:IF:430:ALA:N	2.40	0.50
44:IG:121:ARG:HH12	44:IG:124:LYS:NZ	2.09	0.50
45:IH:287:PRO:O	45:IH:290:THR:HG22	2.12	0.50
44:II:229:ARG:HH11	44:II:229:ARG:HG3	1.77	0.50
45:IL:341:PHE:HD2	45:IL:348:ASN:ND2	2.10	0.50
45:IN:65:LEU:HD21	45:IN:85:PHE:CE2	2.46	0.50
45:IN:73:MET:HB3	45:IN:90:PHE:HE1	1.77	0.50
44:JA:84:ARG:HG3	44:JA:85:GLN:HG2	1.94	0.50
45:JB:191:GLN:O	45:JB:194:GLU:HG3	2.11	0.50
45:JB:267:MET:CE	45:JB:373:ALA:HB3	2.39	0.50
44:JC:208:ALA:HB3	44:JC:302:MET:O	2.12	0.50
44:JC:251:ASP:CB	44:JC:253:THR:HG22	2.41	0.50
44:JC:329:ASN:HD22	45:JF:175:VAL:HG13	1.77	0.50
45:JD:375:GLN:HG3	45:JD:379:LYS:HZ2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:35:GLN:HE22	44:JE:60:LYS:N	2.09	0.50
44:JG:263:PRO:HD3	45:JJ:396:HIS:CE1	2.47	0.50
45:JH:94:GLN:HG3	45:JH:94:GLN:O	2.12	0.50
45:JH:300:MET:HG3	45:JH:300:MET:O	2.12	0.50
45:JJ:256:ASN:OD1	45:JJ:256:ASN:O	2.30	0.50
44:JM:306:ASP:OD2	44:JM:308:ARG:HB2	2.12	0.50
44:JM:355:ILE:O	44:JM:355:ILE:HG13	2.11	0.50
44:KA:73:THR:HB	45:KB:247:ASN:OD1	2.12	0.50
44:KA:417:GLU:HA	44:KA:420:GLU:OE2	2.12	0.50
45:KB:293:MET:SD	45:KB:367:PHE:HB2	2.50	0.50
45:KD:1:MET:O	45:KD:2:ARG:HG2	2.12	0.50
45:KD:104:GLY:O	45:KD:146:GLY:HA3	2.11	0.50
45:KF:240:LEU:HD23	45:KF:240:LEU:O	2.12	0.50
45:KF:263:LEU:HD23	45:KF:263:LEU:O	2.11	0.50
45:KF:392:LYS:HG2	45:KF:395:LEU:CD2	2.42	0.50
44:KG:141:VAL:HG13	44:KG:190:SER:OG	2.11	0.50
44:KI:265:ILE:HG12	44:KI:432:TYR:CE1	2.47	0.50
44:KI:268:MET:HB2	44:KI:379:SER:O	2.11	0.50
45:KJ:309:ARG:N	45:KJ:372:THR:OG1	2.42	0.50
44:KK:346:TRP:CE3	44:KK:347:CYS:HA	2.46	0.50
44:KM:7:ILE:O	44:KM:137:VAL:HA	2.12	0.50
44:KM:169:PHE:HA	44:KM:202:VAL:HG22	1.93	0.50
44:KM:175:PRO:HG3	44:KM:304:LYS:CB	2.42	0.50
45:KN:140:GLY:O	45:KN:184:ASN:ND2	2.44	0.50
45:KN:198:GLU:CG	45:KN:258:ILE:HD11	2.42	0.50
44:LG:121:ARG:HG3	44:LG:121:ARG:HH11	1.77	0.50
45:LH:86:ARG:HA	45:MH:281:TYR:CD2	2.47	0.50
45:LH:375:GLN:OE1	45:LH:423:GLN:HB3	2.11	0.50
45:LJ:54:ALA:HB1	45:MJ:282:ARG:O	2.11	0.50
45:LJ:187:LEU:HD21	45:LJ:408:PHE:CD1	2.46	0.50
44:LK:123:ARG:O	44:LK:123:ARG:HD3	2.11	0.50
45:LL:10:GLY:O	45:LL:13:GLY:N	2.45	0.50
45:LN:379:LYS:O	45:LN:383:GLU:N	2.38	0.50
45:MB:2:ARG:HB2	45:MB:131:GLN:HB2	1.93	0.50
45:MB:320:ARG:HH11	45:MB:320:ARG:HG2	1.75	0.50
44:MC:236:SER:O	44:MC:240:ALA:HB2	2.11	0.50
45:MD:97:ALA:HB1	45:MD:143:THR:HB	1.92	0.50
45:MF:319:GLY:O	45:MF:355:ASP:HA	2.12	0.50
44:MG:14:ILE:HD13	44:MG:75:ILE:CD1	2.42	0.50
44:MG:224:TYR:HB3	46:MG:501:GTP:O6	2.11	0.50
44:MG:291:ILE:CG2	44:MG:292:THR:H	2.13	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:36:TYR:CZ	45:MH:44:LEU:HG	2.47	0.50
45:MJ:139:LEU:HD13	45:MJ:168:SER:HB3	1.94	0.50
44:MK:6:SER:C	44:MK:7:ILE:HD13	2.31	0.50
44:MK:293:ASN:O	44:MK:297:GLU:HG3	2.12	0.50
44:MM:6:SER:C	44:MM:7:ILE:HD13	2.31	0.50
44:MM:385:ALA:HB2	44:MM:432:TYR:HD2	1.76	0.50
44:NA:22:GLU:HB3	44:NA:83:TYR:CE2	2.47	0.50
44:NA:155:GLU:HA	44:NA:197:HIS:CE1	2.47	0.50
45:NB:136:THR:HG21	45:NB:233:MET:CE	2.42	0.50
44:NC:70:LEU:HB2	44:NC:98:ASP:HA	1.92	0.50
45:ND:201:VAL:HG13	45:ND:301:CYS:SG	2.52	0.50
44:NE:250:VAL:HG13	44:NE:254:GLU:HB2	1.93	0.50
44:NE:291:ILE:HG13	44:NE:292:THR:N	2.25	0.50
44:NE:353:VAL:HG12	45:NH:177:ASP:OD1	2.12	0.50
45:NF:376:GLU:HG3	45:NF:377:MET:N	2.27	0.50
44:NG:210:TYR:O	44:NG:213:CYS:HB2	2.12	0.50
45:NH:86:ARG:HD3	45:OH:281:TYR:HB3	1.93	0.50
45:NH:221:THR:O	45:NH:224:ASP:N	2.44	0.50
44:NI:224:TYR:CD2	45:NJ:323:THR:HG21	2.47	0.50
45:NJ:2:ARG:NH2	45:NJ:240:LEU:HD12	2.27	0.50
44:NK:6:SER:HB2	44:NK:8:HIS:CE1	2.42	0.50
44:NK:60:LYS:HD3	44:OK:283:HIS:NE2	2.27	0.50
44:NK:70:LEU:HB3	44:NK:97:GLU:O	2.11	0.50
44:NK:96:LYS:HE2	44:NK:96:LYS:HA	1.93	0.50
44:NK:151:SER:O	44:NK:155:GLU:HG3	2.11	0.50
44:NK:237:SER:HB3	44:NK:376:CYS:HB2	1.93	0.50
45:NL:187:LEU:HD23	45:NL:411:ALA:HB3	1.94	0.50
44:NM:7:ILE:HG23	44:NM:66:VAL:CG1	2.40	0.50
44:NM:144:GLY:O	44:NM:148:GLY:N	2.41	0.50
44:NM:298:PRO:HA	44:NM:301:MET:CE	2.42	0.50
44:NM:320:ARG:HA	44:NM:356:ASN:O	2.12	0.50
45:NN:103:LYS:HG2	45:NN:108:GLU:CG	2.42	0.50
44:OA:311:LYS:HD2	44:OA:342:GLN:O	2.11	0.50
44:OA:314:ALA:O	44:OA:380:ASN:HB2	2.10	0.50
45:OB:52:ASN:OD1	45:OB:62:ARG:NH2	2.45	0.50
44:OE:7:ILE:HD13	44:OE:66:VAL:HG12	1.94	0.50
44:OE:269:LEU:CD2	44:OE:384:ILE:HD13	2.36	0.50
45:OF:135:ILE:HG13	45:OF:152:ILE:HD11	1.92	0.50
44:OI:141:VAL:O	44:OI:141:VAL:HG22	2.11	0.50
44:OI:250:VAL:HG11	44:OI:318:MET:SD	2.52	0.50
45:OJ:101:TRP:HB3	45:OJ:398:TYR:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:258:ILE:CG1	45:OJ:266:PHE:HZ	2.25	0.50
44:OK:298:PRO:HA	44:OK:301:MET:CE	2.42	0.50
45:OL:193:VAL:HA	45:OL:264:HIS:CE1	2.40	0.50
45:OL:258:ILE:HD11	45:OL:266:PHE:HZ	1.77	0.50
44:OM:252:ILE:O	44:OM:255:PHE:HB2	2.12	0.50
44:OM:315:CYS:HA	44:OM:379:SER:HA	1.94	0.50
44:PA:135:PHE:O	44:PA:136:LEU:HD23	2.12	0.50
45:PB:284:LEU:C	45:PB:363:MET:HE3	2.32	0.50
44:PC:11:GLN:HE21	44:PC:15:GLN:HE21	1.57	0.50
44:PC:316:SER:O	44:PC:378:ILE:N	2.34	0.50
45:PD:178:THR:HG21	45:PD:181:GLU:HB2	1.93	0.50
44:PE:170:THR:O	44:PE:204:LEU:HB2	2.12	0.50
44:PE:187:SER:HA	44:PE:190:SER:HG	1.77	0.50
45:PF:6:HIS:O	45:PF:64:ILE:N	2.36	0.50
44:PG:180:ALA:HA	45:PH:350:LYS:HZ3	1.77	0.50
44:PK:88:HIS:CG	44:PK:89:PRO:HD2	2.46	0.50
45:PL:319:GLY:CA	45:PL:357:PRO:HB3	2.42	0.50
44:PM:292:THR:CG2	44:PM:331:SER:HB3	2.24	0.50
45:PN:242:PHE:HB3	45:PN:356:ILE:HG13	1.94	0.50
45:QB:320:ARG:HD2	45:QB:320:ARG:O	2.11	0.50
44:QC:14:ILE:CD1	44:QC:69:ASP:HB2	2.40	0.50
44:QC:202:VAL:HG12	44:QC:203:MET:N	2.27	0.50
44:QC:270:SER:HB3	44:QC:378:ILE:HD13	1.93	0.50
44:QC:292:THR:HG21	44:QC:331:SER:OG	2.11	0.50
45:QF:86:ARG:HD2	45:RF:281:TYR:HB2	1.93	0.50
45:QF:329:GLN:O	45:QF:333:VAL:HG23	2.11	0.50
45:QF:350:LYS:HZ3	45:QF:351:SER:H	1.59	0.50
44:QG:288:VAL:HA	44:QG:291:ILE:CD1	2.41	0.50
45:QH:150:LEU:HD21	45:QH:154:LYS:CE	2.39	0.50
45:QH:166:THR:O	45:QH:199:CYS:HA	2.12	0.50
45:QH:248:SER:CB	45:QH:252:LYS:HD2	2.42	0.50
45:QJ:66:MET:CE	45:QJ:116:VAL:HG23	2.41	0.50
44:QK:87:PHE:HB3	44:QK:92:LEU:CD1	2.42	0.50
44:RC:319:TYR:CE2	44:RC:328:VAL:HG22	2.47	0.50
44:RC:361:THR:HG22	44:RC:362:VAL:N	2.27	0.50
44:RC:408:TYR:HB3	44:RC:413:MET:CE	2.42	0.50
44:RC:416:GLY:O	44:RC:419:SER:N	2.33	0.50
45:RD:201:VAL:O	45:RD:201:VAL:HG23	2.12	0.50
44:RE:195:LEU:CD1	44:RE:428:LEU:HD13	2.39	0.50
44:RE:316:SER:CB	44:RE:352:LYS:HD2	2.42	0.50
44:RE:332:ILE:O	44:RE:335:ILE:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:113:ILE:O	45:RF:116:VAL:HG12	2.11	0.50
44:RG:91:GLN:HB3	44:RG:121:ARG:HD2	1.94	0.50
44:RG:274:PRO:HB2	44:RG:276:ILE:CD1	2.41	0.50
44:RG:319:TYR:HD1	44:RG:375:VAL:HG23	1.76	0.50
45:RH:350:LYS:HG2	45:RH:351:SER:H	1.77	0.50
45:RJ:86:ARG:CD	45:SJ:281:TYR:HB3	2.41	0.50
45:RJ:187:LEU:HD23	45:RJ:411:ALA:CB	2.42	0.50
45:RJ:347:ASN:HB3	44:RK:178:SER:OG	2.12	0.50
45:RN:211:CYS:SG	45:RN:217:LEU:HD21	2.51	0.50
45:SD:97:ALA:HA	45:SD:103:LYS:CD	2.41	0.50
44:SE:188:ILE:HD12	44:SE:425:LEU:CD1	2.42	0.50
44:SE:209:ILE:HG22	44:SE:227:LEU:HD22	1.94	0.50
44:SE:262:TYR:OH	45:SF:391:ARG:O	2.30	0.50
44:SE:272:TYR:HE2	44:SE:275:ILE:HD11	1.73	0.50
44:SG:171:ILE:CD1	44:SG:204:LEU:HB2	2.41	0.50
45:SH:60:VAL:HG13	45:SH:60:VAL:O	2.12	0.50
45:SH:267:MET:HB2	45:SH:301:CYS:SG	2.51	0.50
44:SK:98:ASP:OD1	44:SK:99:ALA:N	2.45	0.50
45:SL:21:TRP:HA	45:SL:24:ILE:HD12	1.92	0.50
44:SM:212:ILE:HA	44:SM:216:ASN:OD1	2.12	0.50
44:SM:307:PRO:HB2	44:SM:312:TYR:HE1	1.76	0.50
44:TA:184:PRO:O	44:TA:188:ILE:HG12	2.12	0.50
44:TA:247:ALA:HB3	44:TA:355:ILE:HG22	1.92	0.50
44:TC:24:PHE:O	44:TC:28:HIS:HB2	2.11	0.50
44:TE:208:ALA:CB	44:TE:303:ALA:HA	2.41	0.50
44:TE:208:ALA:CA	44:TE:304:LYS:HG2	2.41	0.50
45:TF:222:TYR:HB3	45:TF:226:ASN:ND2	2.26	0.50
45:TF:372:THR:HG22	45:TF:422:TYR:CE2	2.46	0.50
45:TJ:168:SER:O	45:TJ:201:VAL:HA	2.12	0.50
44:TK:4:VAL:HG21	44:TK:252:ILE:CD1	2.41	0.50
44:TM:9:VAL:HG21	44:TM:150:GLY:CA	2.41	0.50
44:TM:293:ASN:O	44:TM:297:GLU:HG3	2.12	0.50
45:TN:113:ILE:HG13	45:TN:116:VAL:CG1	2.41	0.50
45:UB:315:ALA:N	45:UB:350:LYS:O	2.44	0.50
45:UD:102:ALA:HB2	45:UD:403:MET:HE3	1.93	0.50
44:UE:121:ARG:O	44:UE:125:LEU:HG	2.12	0.50
45:UF:58:ARG:HD3	45:VF:281:TYR:CB	2.38	0.50
45:UF:245:GLN:HB3	44:UG:224:TYR:CD2	2.47	0.50
44:UG:157:LEU:CD2	44:UG:166:LYS:HD3	2.38	0.50
44:UG:387:VAL:O	44:UG:390:ARG:HG3	2.11	0.50
45:UH:60:VAL:HG11	45:UH:86:ARG:NH2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:262:ARG:NH2	45:UH:421:GLU:HB3	2.27	0.50
45:UH:305:PRO:HA	45:UH:373:ALA:HB3	1.93	0.50
44:UI:23:LEU:HD11	44:UI:233:GLN:CD	2.32	0.50
45:UJ:166:THR:OG1	45:UJ:198:GLU:O	2.26	0.50
45:UJ:252:LYS:CD	45:UJ:350:LYS:HE3	2.42	0.50
44:UK:76:ASP:OD1	44:UK:79:ARG:NH2	2.45	0.50
44:UK:270:SER:HB3	44:UK:378:ILE:CD1	2.41	0.50
45:UN:135:ILE:HG21	45:UN:152:ILE:HD11	1.94	0.50
44:VA:20:CYS:HA	44:VA:232:ALA:CB	2.42	0.50
44:VA:88:HIS:ND1	44:VA:90:GLU:HG2	2.27	0.50
44:VA:189:LEU:O	44:VA:192:HIS:HB3	2.11	0.50
45:VB:315:ALA:HB1	45:VB:317:PHE:HE1	1.77	0.50
44:VC:209:ILE:CG2	44:VC:227:LEU:HD22	2.42	0.50
44:VC:222:PRO:HD2	45:VD:324:LYS:HD3	1.94	0.50
44:VE:34:GLY:O	44:VE:60:LYS:HA	2.12	0.50
45:VF:285:THR:HB	45:VF:287:PRO:HD2	1.93	0.50
44:VG:229:ARG:HB2	44:VG:229:ARG:CZ	2.41	0.50
44:VG:288:VAL:HA	44:VG:291:ILE:CD1	2.41	0.50
44:VG:312:TYR:O	44:VG:344:VAL:HB	2.11	0.50
44:VI:9:VAL:HG11	44:VI:150:GLY:CA	2.42	0.50
44:VI:210:TYR:CE1	44:VI:227:LEU:HD21	2.47	0.50
44:VI:348:PRO:HB2	45:VL:384:GLN:CD	2.32	0.50
45:VJ:207:LEU:HD23	45:VJ:300:MET:CE	2.42	0.50
45:VJ:237:THR:OG1	45:VJ:240:LEU:HB3	2.12	0.50
45:VJ:267:MET:CE	45:VJ:305:PRO:HB3	2.41	0.50
45:VJ:284:LEU:HB2	45:VJ:362:LYS:CE	2.40	0.50
45:VJ:362:LYS:HG3	45:VJ:363:MET:HG3	1.93	0.50
44:VK:237:SER:OG	44:VK:320:ARG:NH1	2.44	0.50
44:VM:100:ALA:CA	45:VN:252:LYS:HB2	2.41	0.50
44:VM:430:LYS:O	44:VM:434:GLU:N	2.35	0.50
44:WA:5:ILE:CD1	44:WA:132:LEU:HD11	2.42	0.50
44:WA:325:PRO:HG2	45:WD:222:TYR:CE2	2.46	0.50
44:WC:171:ILE:O	44:WC:171:ILE:HG13	2.11	0.50
44:WE:12:GLY:H	46:WE:501:GTP:PA	2.34	0.50
44:WE:181:VAL:HG12	45:WF:256:ASN:OD1	2.11	0.50
44:WG:84:ARG:HG3	44:WG:85:GLN:CD	2.32	0.50
44:WG:237:SER:HA	44:WG:320:ARG:HH12	1.77	0.50
44:WG:328:VAL:O	44:WG:332:ILE:HG12	2.11	0.50
45:WH:286:VAL:CB	45:WH:287:PRO:HD3	2.33	0.50
45:WJ:233:MET:O	45:WJ:236:VAL:HG12	2.12	0.50
45:WJ:330:MET:CG	45:WJ:349:ILE:HG21	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:189:LEU:HD21	44:WK:418:PHE:CE1	2.46	0.50
44:WK:254:GLU:HA	44:WK:257:THR:OG1	2.12	0.50
44:WK:284:GLU:HG3	44:WK:286:LEU:CD2	2.39	0.50
45:WL:135:ILE:HG22	45:WL:137:HIS:ND1	2.27	0.50
44:WM:75:ILE:HD12	44:WM:75:ILE:H	1.74	0.50
2:0A:104:ARG:CD	35:7R:59:MET:H	2.24	0.50
3:0B:24:PRO:HD2	45:JH:276:ARG:NH2	2.26	0.50
10:0N:250:ILE:CD1	44:KK:1:MET:HB2	2.42	0.50
15:0V:74:VAL:HA	45:MN:306:ARG:HD3	1.89	0.50
10:1N:160:GLN:HE21	45:KJ:273:LEU:HD23	1.77	0.50
10:1N:245:LYS:HE3	44:KG:245:ASP:HB3	1.93	0.50
25:1P:395:GLN:HB3	44:TA:370:LYS:NZ	2.27	0.50
16:1X:30:GLU:OE2	45:MH:276:ARG:HB2	2.11	0.50
2:2A:36:ARG:HE	45:MJ:243:PRO:CD	2.24	0.50
22:2L:753:ARG:HE	45:BL:362:LYS:NZ	2.07	0.50
2:3A:120:GLY:N	45:AN:224:ASP:OD1	2.42	0.50
32:3I:268:ARG:HG3	45:GJ:209:ASP:OD2	2.11	0.50
12:3S:46:TRP:NE1	44:WK:89:PRO:HD3	2.26	0.50
15:3V:172:LYS:HE2	44:MC:419:SER:HB2	1.92	0.50
34:4F:5:VAL:HG23	44:GI:84:ARG:NH2	1.98	0.50
37:5D:37:ASP:HB2	44:KK:264:ARG:N	2.11	0.50
37:5D:115:ASP:N	44:NM:373:ARG:HD3	2.25	0.50
38:5F:127:PRO:HA	44:OE:372:MET:HE3	1.94	0.50
38:5F:141:CYS:SG	38:5F:144:LEU:HD21	2.52	0.50
38:5F:209:ARG:HB2	44:LG:264:ARG:HH12	1.77	0.50
38:5G:22:LYS:HZ1	38:5G:30:PRO:HD3	1.77	0.50
11:5Q:27:LYS:HA	11:5Q:59:ILE:HG22	1.94	0.50
35:5R:111:TYR:HD2	35:5R:113:ILE:HD11	1.77	0.50
35:5R:500:VAL:HG11	45:EJ:32:PRO:HD2	1.93	0.50
40:6F:130:SER:O	45:IH:359:LYS:NZ	2.44	0.50
41:6G:92:LEU:HG	44:UK:96:LYS:NZ	2.26	0.50
41:6G:181:GLY:HA2	44:VE:338:LYS:HD2	1.93	0.50
11:6Q:61:ALA:HB3	11:6Q:62:PRO:HD3	1.92	0.50
35:6R:538:PHE:CD1	35:6R:578:TYR:CZ	2.96	0.50
35:6R:538:PHE:HE1	35:6R:578:TYR:CD1	2.11	0.50
42:8N:340:UNK:O	42:8N:344:UNK:N	2.44	0.50
44:AA:11:GLN:HG2	44:AA:15:GLN:OE1	2.11	0.50
44:AA:69:ASP:HB3	44:AA:75:ILE:CD1	2.28	0.50
44:AA:161:TYR:HD2	44:AA:164:LYS:HZ1	1.60	0.50
45:AB:31:ASP:HB3	45:AB:32:PRO:CD	2.42	0.50
44:AC:166:LYS:C	44:AC:167:LEU:HD12	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:261:PRO:HG3	44:AC:313:MET:SD	2.51	0.50
45:AD:2:ARG:HA	45:AD:129:CYS:O	2.12	0.50
44:AG:270:SER:C	44:AG:302:MET:HE3	2.32	0.50
44:AG:343:PHE:CE2	44:AG:351:PHE:HE2	2.30	0.50
44:AG:354:GLY:O	44:AG:355:ILE:HD13	2.12	0.50
45:AJ:166:THR:O	45:AJ:200:MET:N	2.43	0.50
45:AJ:286:VAL:CG1	45:AJ:325:GLU:HG2	2.42	0.50
44:AK:384:ILE:O	44:AK:387:VAL:HG22	2.12	0.50
45:AN:318:ARG:HB3	45:AN:364:ALA:H	1.76	0.50
44:BA:72:PRO:HG3	44:BA:95:GLY:O	2.11	0.50
44:BC:102:ASN:OD1	44:BC:104:ALA:HB3	2.11	0.50
44:BC:107:HIS:CD2	44:BC:152:LEU:HG	2.47	0.50
44:BC:115:VAL:O	44:BC:119:LEU:HD23	2.12	0.50
44:BC:174:SER:HB3	44:BC:175:PRO:HD2	1.93	0.50
45:BD:7:ILE:O	45:BD:7:ILE:HG13	2.12	0.50
45:BH:309:ARG:HA	45:BH:340:TYR:O	2.12	0.50
45:BJ:295:ASP:OD1	45:BJ:296:ALA:N	2.44	0.50
44:BM:10:GLY:O	44:BM:14:ILE:HG13	2.11	0.50
44:BM:20:CYS:HA	44:BM:232:ALA:HB1	1.94	0.50
45:BN:58:ARG:HG2	45:BN:59:TYR:N	2.26	0.50
45:BN:268:ILE:HA	45:BN:367:PHE:O	2.11	0.50
44:CA:9:VAL:HG13	44:CA:146:GLY:HA2	1.93	0.50
44:CA:261:PRO:CB	45:CB:393:ALA:HB1	2.42	0.50
44:CA:311:LYS:HZ2	44:CA:344:VAL:HA	1.77	0.50
44:CA:317:MET:HE1	44:CA:378:ILE:N	2.25	0.50
45:CB:49:VAL:CG2	45:CB:241:ARG:HG2	2.33	0.50
45:CB:187:LEU:HD11	45:CB:408:PHE:CZ	2.47	0.50
45:CB:253:LEU:HA	45:CB:257:LEU:HD13	1.94	0.50
44:CC:16:VAL:HG21	44:CC:231:ILE:HD13	1.94	0.50
44:CC:183:GLU:HG2	44:CC:184:PRO:HD3	1.93	0.50
45:CD:36:TYR:CE1	45:CD:38:GLY:N	2.77	0.50
45:CD:47:ILE:HD13	45:CD:59:TYR:CE2	2.47	0.50
45:CD:295:ASP:OD1	45:CD:297:LYS:HG2	2.11	0.50
44:CE:216:ASN:HB3	44:CE:275:ILE:O	2.12	0.50
45:CF:105:HIS:HD2	45:CF:146:GLY:HA2	1.77	0.50
45:CF:209:ASP:OD1	45:CF:213:ARG:HD3	2.11	0.50
45:CF:325:GLU:O	45:CF:328:GLU:HG2	2.11	0.50
45:CH:97:ALA:HB3	45:CH:143:THR:HB	1.93	0.50
45:CH:190:HIS:O	45:CH:193:VAL:HG12	2.12	0.50
45:CH:306:ARG:NH1	45:CH:306:ARG:CB	2.75	0.50
45:CJ:248:SER:HA	45:CJ:252:LYS:CE	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:256:ASN:CG	44:CK:181:VAL:HG22	2.32	0.50
44:CM:114:ILE:O	44:CM:117:LEU:HB2	2.12	0.50
45:CN:52:ASN:HB2	45:CN:60:VAL:CG1	2.42	0.50
45:DB:16:ILE:HD13	45:DB:226:ASN:OD1	2.11	0.50
44:DC:120:ASP:O	44:DC:124:LYS:HB2	2.11	0.50
44:DE:326:LYS:HD2	44:DE:327:ASP:N	2.26	0.50
45:DH:350:LYS:HD2	45:DH:351:SER:N	2.24	0.50
44:DI:221:ARG:N	44:DI:222:PRO:HD3	2.27	0.50
44:DI:315:CYS:N	44:DI:350:GLY:O	2.32	0.50
44:DK:263:PRO:HD3	45:DL:396:HIS:CD2	2.47	0.50
45:DL:103:LYS:HD3	45:DL:401:GLU:OE2	2.11	0.50
44:DM:323:VAL:HG22	44:DM:324:VAL:N	2.27	0.50
45:EB:139:LEU:HB3	45:EB:185:ALA:CB	2.41	0.50
45:EB:350:LYS:HZ3	44:EC:179:THR:HG22	1.76	0.50
45:EB:398:TYR:O	45:EB:403:MET:SD	2.69	0.50
45:EB:401:GLU:HB2	45:EB:403:MET:HE1	1.93	0.50
44:EC:183:GLU:HG2	44:EC:184:PRO:HD3	1.93	0.50
44:EC:243:ARG:HG3	44:EC:244:PHE:CE2	2.46	0.50
45:ED:87:PRO:HA	45:ED:90:PHE:HD2	1.76	0.50
45:ED:377:MET:O	45:ED:380:ARG:HG2	2.11	0.50
44:EE:188:ILE:CG1	44:EE:425:LEU:HD21	2.41	0.50
44:EE:363:VAL:HG13	44:EE:366:GLY:HA3	1.94	0.50
44:EG:69:ASP:HB3	44:EG:75:ILE:HG13	1.94	0.50
44:EI:1:MET:HE2	45:EJ:94:GLN:HB3	1.94	0.50
45:EJ:318:ARG:HH11	45:EJ:358:PRO:CG	2.19	0.50
44:EK:188:ILE:HG13	44:EK:395:PHE:CD1	2.47	0.50
44:EK:271:SER:HG	44:EK:301:MET:CA	2.23	0.50
44:EK:276:ILE:HD12	44:EK:281:ALA:HB1	1.92	0.50
44:EK:321:GLY:O	44:EK:357:TYR:HA	2.11	0.50
45:EL:9:GLY:HA2	45:EL:66:MET:HG3	1.93	0.50
45:EL:272:PRO:HD2	45:EL:364:ALA:HB1	1.94	0.50
44:EM:154:LEU:HD23	44:EM:157:LEU:HD12	1.92	0.50
44:EM:241:SER:OG	44:EM:250:VAL:O	2.24	0.50
44:FA:56:THR:O	44:GA:285:GLN:HA	2.12	0.50
44:FA:102:ASN:OD1	44:FA:104:ALA:N	2.44	0.50
44:FC:279:GLU:O	44:FC:280:LYS:HD3	2.12	0.50
44:FE:174:SER:HB3	44:FE:207:GLU:HG3	1.93	0.50
44:FE:205:ASP:OD1	44:FE:304:LYS:N	2.39	0.50
45:FF:284:LEU:HB3	45:FF:363:MET:HE2	1.94	0.50
44:FG:189:LEU:HD21	44:FG:418:PHE:CD1	2.47	0.50
44:FI:51:THR:HG22	44:FI:52:PHE:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:180:ALA:HB1	45:FJ:256:ASN:HD21	1.77	0.50
45:FJ:166:THR:OG1	45:FJ:199:CYS:HA	2.12	0.50
45:FJ:314:SER:HB2	45:FJ:350:LYS:HB3	1.92	0.50
44:FK:31:GLN:O	44:FK:34:GLY:N	2.39	0.50
44:FK:88:HIS:HB3	44:FK:91:GLN:CD	2.32	0.50
44:FK:428:LEU:HG	44:FK:432:TYR:CE2	2.47	0.50
45:FL:3:GLU:HB2	45:FL:49:VAL:O	2.12	0.50
45:FL:46:ARG:HG3	45:FL:49:VAL:HG23	1.92	0.50
45:FL:95:THR:HG21	45:FL:108:GLU:OE1	2.12	0.50
45:FL:105:HIS:CD2	45:FL:150:LEU:HD12	2.47	0.50
44:FM:223:THR:O	44:FM:227:LEU:HG	2.12	0.50
45:FN:139:LEU:HB3	45:FN:185:ALA:HB2	1.94	0.50
45:FN:149:THR:HG23	45:FN:150:LEU:N	2.27	0.50
44:GC:68:LEU:HD21	44:GC:118:CYS:SG	2.51	0.50
44:GC:187:SER:HA	44:GC:190:SER:OG	2.12	0.50
44:GC:363:VAL:HG23	44:GC:364:PRO:HD2	1.94	0.50
45:GD:257:LEU:HD11	45:GD:314:SER:HB2	1.93	0.50
45:GF:18:ALA:O	45:GF:22:GLU:HG3	2.11	0.50
45:GF:290:THR:HA	45:GF:293:MET:CG	2.35	0.50
44:GG:183:GLU:N	44:GG:184:PRO:HD2	2.27	0.50
44:GG:189:LEU:HD11	44:GG:418:PHE:CD1	2.46	0.50
44:GG:269:LEU:CD1	44:GG:303:ALA:HB3	2.38	0.50
44:GG:276:ILE:O	44:GG:276:ILE:HG23	2.12	0.50
45:GH:186:THR:CA	45:GH:415:MET:HE3	2.41	0.50
44:GI:1:MET:HE1	45:GL:94:GLN:CA	2.41	0.50
44:GI:53:PHE:C	44:GI:64:ARG:HH22	2.15	0.50
44:GI:437:ILE:HG13	44:GI:437:ILE:O	2.11	0.50
45:GJ:286:VAL:HG23	45:GJ:287:PRO:HD3	1.92	0.50
45:GJ:395:LEU:O	45:GJ:399:THR:HG22	2.11	0.50
44:GK:68:LEU:HG	44:GK:118:CYS:SG	2.52	0.50
44:GK:291:ILE:HG13	44:GK:292:THR:N	2.27	0.50
44:GK:329:ASN:O	44:GK:332:ILE:HB	2.11	0.50
45:GL:30:ILE:HD13	45:GL:36:TYR:HD2	1.76	0.50
45:GN:139:LEU:HD21	45:GN:185:ALA:CA	2.42	0.50
45:GN:263:LEU:HD21	45:GN:425:TYR:CD2	2.46	0.50
44:HA:91:GLN:HG3	44:HA:121:ARG:HD2	1.94	0.50
44:HA:181:VAL:HG12	45:HB:348:ASN:CA	2.38	0.50
44:HA:307:PRO:HA	44:HA:383:ALA:HB3	1.93	0.50
45:HB:4:ILE:CG2	45:HB:131:GLN:HB3	2.42	0.50
45:HB:156:ARG:HG3	45:HB:195:ASN:HB3	1.94	0.50
45:HB:374:ILE:O	45:HB:377:MET:SD	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:111:GLY:HA3	44:HC:149:LEU:CD2	2.41	0.50
44:HC:289:ALA:O	44:HC:292:THR:HG22	2.11	0.50
44:HC:290:GLU:O	44:HC:294:SER:N	2.40	0.50
44:HE:71:GLU:OE1	44:HE:73:THR:N	2.44	0.50
44:HE:210:TYR:CG	45:HF:324:LYS:HD2	2.47	0.50
45:HF:251:ARG:O	45:HF:254:ALA:HB3	2.11	0.50
45:HF:302:ALA:HB3	45:HF:377:MET:HE1	1.93	0.50
44:HG:188:ILE:HG23	44:HG:425:LEU:HD11	1.94	0.50
45:HH:5:VAL:HG22	45:HH:133:PHE:CD1	2.47	0.50
44:HI:275:ILE:CD1	44:HI:368:LEU:HD11	2.40	0.50
45:HJ:7:ILE:HB	45:HJ:135:ILE:HD11	1.92	0.50
45:HJ:36:TYR:CZ	45:HJ:38:GLY:HA3	2.47	0.50
45:HJ:68:LEU:CD1	45:HJ:147:MET:HE3	2.39	0.50
45:HL:182:PRO:HG2	45:HL:388:MET:CE	2.41	0.50
45:HN:189:VAL:HG11	45:HN:378:PHE:CE2	2.46	0.50
44:IA:270:SER:CB	44:IA:378:ILE:HD13	2.42	0.50
45:IB:21:TRP:CZ2	45:IB:63:ALA:HB2	2.47	0.50
45:IB:311:LEU:N	45:IB:371:SER:HA	2.26	0.50
45:IB:377:MET:O	45:IB:380:ARG:HG2	2.12	0.50
44:IC:189:LEU:HD21	44:IC:418:PHE:CD1	2.47	0.50
45:ID:232:ALA:HB1	45:ID:268:ILE:HD12	1.94	0.50
44:IE:89:PRO:HD3	45:JF:281:TYR:CE2	2.46	0.50
44:IE:286:LEU:O	44:IE:373:ARG:NE	2.37	0.50
44:IE:354:GLY:O	44:IE:355:ILE:HD13	2.11	0.50
45:IF:28:HIS:ND1	45:IF:43:GLN:O	2.42	0.50
44:IK:28:HIS:ND1	44:IK:49:PHE:HB3	2.27	0.50
44:IK:71:GLU:OE2	44:IK:73:THR:OG1	2.26	0.50
44:IK:298:PRO:HG3	44:IK:308:ARG:CZ	2.41	0.50
45:IN:99:ASN:HA	45:IN:142:GLY:HA3	1.92	0.50
44:JA:244:PHE:CE1	44:JA:358:GLN:HG2	2.47	0.50
44:JC:326:LYS:NZ	45:JF:219:THR:HA	2.26	0.50
45:JD:80:PRO:O	45:JD:81:PHE:HB2	2.12	0.50
45:JF:360:GLY:O	45:JF:361:LEU:HD23	2.12	0.50
44:JG:278:ALA:CA	44:JG:369:ALA:HB2	2.41	0.50
45:JH:144:GLY:O	45:JH:148:GLY:N	2.35	0.50
44:JI:30:ILE:HD12	44:JI:53:PHE:CD2	2.47	0.50
45:JJ:274:THR:CB	45:JJ:282:ARG:HH12	2.25	0.50
44:JK:405:VAL:HG12	44:JK:409:VAL:HG23	1.93	0.50
45:JL:117:LEU:O	45:JL:120:VAL:HG12	2.11	0.50
45:JL:350:LYS:HG2	45:JL:351:SER:N	2.26	0.50
45:JN:10:GLY:HA2	45:JN:143:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:23:VAL:HG11	45:JN:231:ALA:HA	1.93	0.50
45:JN:197:ASP:O	45:JN:264:HIS:HB2	2.11	0.50
44:KA:202:VAL:HG11	44:KA:270:SER:HB3	1.94	0.50
44:KA:259:LEU:HD13	44:KA:268:MET:HE1	1.93	0.50
45:KB:185:ALA:O	45:KB:189:VAL:HG23	2.12	0.50
44:KE:175:PRO:HD2	44:KE:207:GLU:CD	2.33	0.50
45:KF:3:GLU:HG3	45:KF:62:ARG:NH1	2.18	0.50
45:KF:3:GLU:HB2	45:KF:62:ARG:NH1	2.27	0.50
45:KF:180:VAL:HG22	45:KF:180:VAL:O	2.12	0.50
44:KG:31:GLN:NE2	44:KG:37:PRO:HD3	2.27	0.50
44:KG:324:VAL:HG21	44:KG:326:LYS:HZ2	1.75	0.50
45:KH:2:ARG:HA	45:KH:129:CYS:O	2.12	0.50
45:KH:30:ILE:CG2	45:KH:34:GLY:HA2	2.42	0.50
45:KH:415:MET:O	45:KH:419:VAL:HG23	2.10	0.50
45:KJ:152:ILE:HG12	45:KJ:164:MET:HE3	1.94	0.50
45:KL:31:ASP:OD1	45:KL:35:THR:N	2.41	0.50
45:KL:240:LEU:O	45:KL:240:LEU:HD23	2.12	0.50
44:KM:265:ILE:HD12	44:KM:432:TYR:CD1	2.46	0.50
44:KM:288:VAL:O	44:KM:291:ILE:HG12	2.12	0.50
44:KM:328:VAL:HG11	44:KM:353:VAL:CG1	2.37	0.50
45:KN:191:GLN:OE1	45:KN:191:GLN:HA	2.12	0.50
45:LB:149:THR:HB	45:LB:191:GLN:HG2	1.94	0.50
45:LB:270:PHE:HD2	45:LB:273:LEU:HD21	1.73	0.50
44:LE:138:PHE:CD1	44:LE:169:PHE:HB2	2.47	0.50
44:LE:321:GLY:O	44:LE:357:TYR:HA	2.12	0.50
45:LF:122:LYS:HE2	45:MF:291:GLN:HG2	1.93	0.50
44:LG:189:LEU:O	44:LG:189:LEU:HD23	2.12	0.50
44:LI:11:GLN:HE22	45:LJ:247:ASN:H	1.60	0.50
45:LJ:421:GLU:O	45:LJ:424:GLN:HG2	2.12	0.50
44:LK:36:MET:O	44:LK:40:LYS:HE3	1.95	0.50
45:LL:135:ILE:HB	45:LL:166:THR:HA	1.92	0.50
45:LL:236:VAL:HG22	45:LL:250:LEU:HD23	1.92	0.50
45:LL:294:PHE:CD1	45:LL:333:VAL:HG21	2.47	0.50
44:LM:120:ASP:O	44:LM:124:LYS:HG3	2.12	0.50
45:LN:258:ILE:HG22	45:LN:260:PHE:O	2.10	0.50
45:MB:42:LEU:N	45:MB:43:GLN:HA	2.25	0.50
45:MB:215:LEU:HD21	45:MB:273:LEU:HD22	1.93	0.50
45:MB:258:ILE:HG13	45:MB:266:PHE:HZ	1.75	0.50
45:MB:322:SER:OG	45:MB:325:GLU:HB2	2.12	0.50
45:MD:36:TYR:CE2	45:MD:44:LEU:HD11	2.46	0.50
45:MD:52:ASN:HB2	45:MD:60:VAL:CG1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MD:292:GLN:HE22	45:MD:298:ASN:HB2	1.75	0.50
44:ME:269:LEU:HD21	44:ME:433:GLU:N	2.27	0.50
44:MG:290:GLU:O	44:MG:293:ASN:HB2	2.11	0.50
44:MI:145:THR:OG1	46:MI:501:GTP:O1B	2.30	0.50
44:MI:296:PHE:CD2	44:MI:335:ILE:HG21	2.47	0.50
45:MJ:344:TRP:CE3	45:MJ:345:ILE:HB	2.46	0.50
44:MM:211:ASP:OD2	44:MM:304:LYS:NZ	2.41	0.50
45:MN:58:ARG:HG3	45:MN:86:ARG:HH21	1.77	0.50
45:MN:285:THR:C	45:MN:287:PRO:HD2	2.32	0.50
44:NA:6:SER:C	44:NA:7:ILE:HD13	2.33	0.50
44:NA:212:ILE:HD11	44:NA:300:ASN:HA	1.94	0.50
45:NB:4:ILE:HG21	45:NB:250:LEU:CD1	2.41	0.50
45:NB:113:ILE:O	45:NB:117:LEU:HD23	2.12	0.50
45:NB:342:VAL:HG22	45:NB:344:TRP:CD1	2.47	0.50
45:NB:385:PHE:HD2	45:NB:412:GLU:OE2	1.95	0.50
44:NC:169:PHE:CD1	44:NC:202:VAL:HG22	2.47	0.50
44:NC:325:PRO:HB3	45:NF:222:TYR:OH	2.12	0.50
45:ND:173:PRO:HG2	45:ND:174:LYS:NZ	2.27	0.50
45:NF:172:SER:HB2	45:NF:205:GLU:HG2	1.93	0.50
44:NG:199:ASP:O	44:NG:266:HIS:HB2	2.12	0.50
45:NH:87:PRO:CD	45:OH:281:TYR:HD2	2.25	0.50
45:NL:19:LYS:O	45:NL:22:GLU:HB2	2.11	0.50
45:NL:213:ARG:CZ	45:NL:213:ARG:HB3	2.42	0.50
45:NL:324:LYS:O	45:NL:328:GLU:HG2	2.12	0.50
44:NM:54:SER:N	44:NM:62:VAL:O	2.45	0.50
45:NN:4:ILE:HD11	45:NN:50:TYR:CE1	2.46	0.50
45:NN:27:GLU:OE2	45:NN:241:ARG:NE	2.40	0.50
45:NN:343:GLU:HG2	45:NN:344:TRP:N	2.26	0.50
44:OA:217:LEU:HD21	44:OA:275:ILE:HG22	1.93	0.50
45:OB:257:LEU:HD23	45:OB:266:PHE:CZ	2.47	0.50
44:OC:177:VAL:CG1	45:OD:327:ASP:HB3	2.42	0.50
44:OC:251:ASP:HB2	44:OC:254:GLU:OE1	2.12	0.50
45:OD:51:TYR:CE2	45:OD:61:PRO:HB3	2.46	0.50
44:OE:101:ASN:ND2	44:OE:143:GLY:HA2	2.26	0.50
44:OE:181:VAL:HG22	44:OE:181:VAL:O	2.11	0.50
45:OF:211:CYS:HA	45:OF:215:LEU:HD12	1.93	0.50
45:OF:407:GLU:CA	45:OF:410:GLU:HG2	2.40	0.50
45:OH:5:VAL:HG23	45:OH:133:PHE:HA	1.94	0.50
45:OH:69:GLU:O	45:OH:72:THR:HG22	2.11	0.50
45:OH:287:PRO:N	45:OH:329:GLN:HE22	2.10	0.50
44:OI:22:GLU:HG2	44:OI:83:TYR:CZ	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:275:ILE:HG23	44:OI:368:LEU:CD1	2.41	0.50
45:OL:286:VAL:HB	45:OL:287:PRO:HD3	1.93	0.50
45:OL:317:PHE:CE2	45:OL:326:VAL:HG13	2.46	0.50
45:OL:401:GLU:OE1	45:OL:401:GLU:N	2.45	0.50
44:OM:178:SER:HB2	45:ON:347:ASN:CG	2.31	0.50
44:OM:248:LEU:HD13	44:OM:355:ILE:HD12	1.93	0.50
44:OM:276:ILE:CG2	44:OM:281:ALA:HB2	2.42	0.50
44:PA:88:HIS:CG	44:PA:89:PRO:HD2	2.47	0.50
44:PC:182:VAL:O	44:PC:182:VAL:HG22	2.12	0.50
45:PD:2:ARG:NH1	45:PD:240:LEU:CD1	2.75	0.50
44:PE:255:PHE:O	44:PE:259:LEU:HG	2.12	0.50
44:PG:68:LEU:HD11	44:PG:93:ILE:HD13	1.94	0.50
45:PH:228:LEU:CD2	45:PH:273:LEU:HD22	2.42	0.50
45:PH:248:SER:OG	45:PH:252:LYS:HD2	2.12	0.50
45:PH:299:MET:CE	45:PH:305:PRO:HG2	2.41	0.50
45:PJ:167:PHE:CE1	45:PJ:200:MET:HG3	2.46	0.50
44:PK:228:ASN:O	44:PK:231:ILE:N	2.45	0.50
45:PL:268:ILE:HG13	45:PL:300:MET:SD	2.51	0.50
44:PM:60:LYS:HD3	44:QM:283:HIS:CD2	2.47	0.50
45:QB:289:LEU:HD11	45:QB:363:MET:SD	2.52	0.50
44:QC:191:THR:O	44:QC:195:LEU:HB2	2.11	0.50
44:QC:200:VAL:HG13	44:QC:268:MET:SD	2.51	0.50
44:QC:352:LYS:HD2	45:QD:177:ASP:O	2.11	0.50
45:QD:1:MET:C	45:QD:2:ARG:HG2	2.31	0.50
45:QD:164:MET:HE3	45:QD:196:ALA:C	2.32	0.50
45:QH:139:LEU:CD1	45:QH:168:SER:HB3	2.37	0.50
44:QK:81:GLY:O	44:QK:84:ARG:HG2	2.12	0.50
44:QK:106:GLY:O	44:QK:149:LEU:HD22	2.11	0.50
45:QL:47:ILE:HD13	45:QL:59:TYR:CE2	2.47	0.50
45:QL:311:LEU:HD12	45:QL:370:ASN:CG	2.32	0.50
44:QM:166:LYS:NZ	44:QM:198:THR:HA	2.27	0.50
45:QN:134:GLN:HA	45:QN:165:GLU:CB	2.41	0.50
45:QN:138:SER:OG	45:QN:141:GLY:HA3	2.12	0.50
45:RB:235:GLY:O	45:RB:316:LEU:HD22	2.12	0.50
44:RC:390:ARG:HG3	44:RC:391:LEU:H	1.77	0.50
44:RE:384:ILE:O	44:RE:387:VAL:HG22	2.11	0.50
45:RF:180:VAL:O	45:RF:180:VAL:HG22	2.12	0.50
44:RG:70:LEU:HD12	44:RG:145:THR:CB	2.42	0.50
44:RG:189:LEU:O	44:RG:192:HIS:HB3	2.12	0.50
44:RG:286:LEU:HD12	44:RG:374:ALA:HA	1.94	0.50
45:RH:12:CYS:HB2	48:RH:501:GDP:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:35:GLN:NE2	44:RI:60:LYS:HB3	2.27	0.50
44:RI:137:VAL:HG13	44:RI:168:GLY:HA2	1.92	0.50
44:RI:155:GLU:HG2	44:RI:197:HIS:CD2	2.46	0.50
44:RK:119:LEU:HD21	44:RK:156:ARG:CD	2.42	0.50
44:RK:294:SER:HA	44:RK:297:GLU:CD	2.32	0.50
45:RL:185:ALA:O	45:RL:189:VAL:HG23	2.11	0.50
45:RN:377:MET:O	45:RN:380:ARG:HG2	2.11	0.50
44:SA:229:ARG:O	44:SA:233:GLN:HG3	2.11	0.50
45:SB:68:LEU:HD23	45:SB:97:ALA:N	2.26	0.50
45:SB:86:ARG:CZ	45:TB:281:TYR:HB3	2.41	0.50
45:SB:372:THR:HA	45:SB:422:TYR:CE2	2.47	0.50
44:SC:150:GLY:O	44:SC:154:LEU:HG	2.11	0.50
44:SC:313:MET:HE1	44:SC:382:THR:N	2.27	0.50
44:SC:352:LYS:HZ3	45:SD:179:VAL:H	1.59	0.50
44:SE:48:ALA:HB1	44:SE:243:ARG:CB	2.41	0.50
44:SE:90:GLU:OE1	44:SE:90:GLU:HA	2.12	0.50
44:SE:169:PHE:HB3	44:SE:204:LEU:HD12	1.93	0.50
44:SE:288:VAL:O	44:SE:292:THR:HG22	2.12	0.50
45:SF:97:ALA:CB	45:SF:143:THR:HB	2.35	0.50
45:SF:102:ALA:HB2	45:SF:398:TYR:CD1	2.47	0.50
45:SF:152:ILE:O	45:SF:155:VAL:HB	2.12	0.50
45:SF:417:ASP:HA	45:SF:420:SER:HB3	1.94	0.50
45:SJ:68:LEU:O	45:SJ:68:LEU:HG	2.11	0.50
45:SJ:117:LEU:HD21	45:SJ:154:LYS:CD	2.42	0.50
45:SJ:282:ARG:HH22	45:SJ:291:GLN:NE2	2.09	0.50
45:SL:2:ARG:HA	45:SL:129:CYS:O	2.11	0.50
45:SL:36:TYR:CE1	45:SL:44:LEU:HG	2.46	0.50
45:SL:156:ARG:NH1	45:SL:162:ARG:O	2.45	0.50
45:SL:425:TYR:HA	45:SL:428:ALA:HB2	1.93	0.50
44:SM:390:ARG:HG3	44:SM:391:LEU:H	1.77	0.50
45:SN:231:ALA:O	45:SN:234:SER:OG	2.28	0.50
45:SN:405:GLU:OE1	45:SN:405:GLU:N	2.36	0.50
45:TB:192:LEU:CD1	45:TB:196:ALA:HB2	2.41	0.50
45:TD:68:LEU:CG	45:TD:147:MET:HE1	2.41	0.50
44:TE:15:GLN:OE1	44:TE:18:ASN:HB2	2.11	0.50
44:TE:326:LYS:HD2	44:TE:327:ASP:N	2.27	0.50
45:TF:167:PHE:HA	45:TF:200:MET:HB3	1.93	0.50
45:TF:222:TYR:O	45:TF:226:ASN:ND2	2.40	0.50
44:TG:201:ALA:HB3	44:TG:267:PHE:HA	1.94	0.50
44:TG:351:PHE:N	45:TH:179:VAL:HG12	2.27	0.50
45:TH:42:LEU:HA	45:TH:45:GLU:CD	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:68:LEU:HD11	45:TH:108:GLU:OE2	2.11	0.50
44:TI:317:MET:HE2	44:TI:319:TYR:HE1	1.77	0.50
45:TJ:285:THR:HB	45:TJ:287:PRO:HD2	1.94	0.50
45:TJ:358:PRO:HB2	45:TJ:361:LEU:HB2	1.94	0.50
45:TL:42:LEU:O	45:TL:45:GLU:HG3	2.11	0.50
45:TL:104:GLY:C	45:TL:146:GLY:HA3	2.32	0.50
44:TM:82:THR:HG23	44:TM:83:TYR:CE1	2.46	0.50
44:TM:254:GLU:HG2	45:TN:98:GLY:CA	2.29	0.50
45:TN:257:LEU:HD11	45:TN:350:LYS:HD3	1.93	0.50
44:UC:233:GLN:OE1	44:UC:233:GLN:HA	2.12	0.50
44:UC:360:PRO:HG3	44:UC:374:ALA:HB3	1.93	0.50
45:UD:2:ARG:HH11	45:UD:249:ASP:HB3	1.76	0.50
45:UD:309:ARG:O	45:UD:372:THR:HG23	2.12	0.50
44:UE:93:ILE:HD12	44:UE:93:ILE:H	1.76	0.50
45:UF:51:TYR:HE1	45:UF:61:PRO:HG3	1.77	0.50
45:UF:133:PHE:H	45:UF:164:MET:HA	1.76	0.50
45:UF:208:TYR:O	45:UF:212:PHE:N	2.41	0.50
45:UF:247:ASN:HD22	44:UG:71:GLU:HG3	1.77	0.50
45:UF:331:LEU:HA	45:UF:334:GLN:HB3	1.94	0.50
45:UF:382:ALA:HA	45:UF:385:PHE:HB3	1.94	0.50
44:UG:7:ILE:HG22	44:UG:66:VAL:CG1	2.41	0.50
44:UI:285:GLN:OE1	44:UI:285:GLN:HA	2.10	0.50
45:UJ:8:GLN:NE2	45:UJ:65:LEU:HD21	2.27	0.50
45:UJ:122:LYS:HD2	45:UJ:123:GLU:N	2.26	0.50
45:UJ:296:ALA:C	45:UJ:299:MET:HE1	2.33	0.50
45:UJ:379:LYS:NZ	45:UJ:419:VAL:HG13	2.26	0.50
44:UK:49:PHE:CE2	44:UK:55:GLU:HB2	2.47	0.50
44:UK:183:GLU:O	44:UK:185:TYR:N	2.45	0.50
44:UK:258:ASN:CG	45:UL:179:VAL:HG22	2.32	0.50
44:UK:320:ARG:NH2	44:UK:360:PRO:HA	2.27	0.50
44:UM:150:GLY:O	44:UM:154:LEU:HG	2.12	0.50
44:UM:201:ALA:N	44:UM:266:HIS:O	2.43	0.50
45:UN:21:TRP:CH2	45:UN:50:TYR:HB3	2.46	0.50
44:VA:323:VAL:HG11	44:VA:355:ILE:HG12	1.94	0.50
45:VB:269:GLY:HA3	45:VB:298:ASN:HD22	1.76	0.50
45:VD:178:THR:O	45:VD:181:GLU:N	2.42	0.50
45:VD:312:THR:O	45:VD:370:ASN:N	2.44	0.50
44:VE:268:MET:CB	44:VE:380:ASN:HA	2.40	0.50
45:VF:42:LEU:CD2	45:VF:356:ILE:HD11	2.42	0.50
45:VF:135:ILE:O	45:VF:166:THR:HA	2.12	0.50
45:VF:257:LEU:HB3	45:VF:266:PHE:CZ	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:6:SER:O	44:VG:66:VAL:HG12	2.12	0.50
44:VG:427:ALA:HA	44:VG:430:LYS:HB3	1.94	0.50
45:VJ:210:ILE:HD11	45:VJ:298:ASN:O	2.11	0.50
45:VJ:338:SER:HB3	45:VJ:341:PHE:HD2	1.77	0.50
44:VK:104:ALA:HA	44:VK:413:MET:CE	2.41	0.50
44:VK:138:PHE:CD2	44:VK:169:PHE:HB2	2.46	0.50
45:VL:291:GLN:NE2	45:VL:292:GLN:HB2	2.26	0.50
44:VM:182:VAL:HG23	44:VM:404:PHE:HD2	1.77	0.50
45:VN:172:SER:OG	45:VN:205:GLU:HB2	2.12	0.50
45:VN:209:ASP:O	45:VN:213:ARG:HB2	2.11	0.50
44:WA:169:PHE:HB3	44:WA:204:LEU:CD1	2.42	0.50
44:WA:271:SER:HA	44:WA:302:MET:HB2	1.94	0.50
44:WC:77:GLU:HA	44:WC:80:THR:HG1	1.77	0.50
44:WC:221:ARG:HH21	45:WD:321:MET:HA	1.77	0.50
44:WC:270:SER:CB	44:WC:378:ILE:HD13	2.42	0.50
45:WD:21:TRP:CZ3	45:WD:61:PRO:HB3	2.47	0.50
45:WF:293:MET:HE3	45:WF:294:PHE:CE2	2.47	0.50
45:WH:28:HIS:NE2	45:WH:241:ARG:HD3	2.27	0.50
45:WH:215:LEU:O	45:WH:275:SER:HB2	2.12	0.50
44:WI:311:LYS:CD	44:WI:342:GLN:HG3	2.38	0.50
44:WI:346:TRP:O	44:WI:348:PRO:HD3	2.12	0.50
44:WK:200:VAL:HG12	44:WK:201:ALA:N	2.26	0.50
44:WK:270:SER:HB3	44:WK:378:ILE:CD1	2.35	0.50
45:WL:1:MET:C	45:WL:2:ARG:HG2	2.32	0.50
44:WM:310:GLY:HA3	44:WM:383:ALA:HA	1.92	0.50
1:6H:167:LYS:HG3	45:FB:360:GLY:C	2.28	0.50
1:6H:382:PHE:CZ	44:FK:363:VAL:CG1	2.74	0.50
5:0D:38:ILE:HG12	44:DC:84:ARG:O	2.12	0.50
16:0X:49:ILE:HD11	44:MA:282:TYR:CB	2.42	0.50
8:1G:172:TYR:CD1	44:KA:130:THR:HG21	2.47	0.50
9:1H:257:GLU:HG2	44:HE:364:PRO:HB2	1.92	0.50
19:1I:220:TRP:CG	44:LE:357:TYR:HE2	2.29	0.50
20:1J:183:GLN:HE22	44:IG:279:GLU:HG3	1.74	0.50
25:1P:308:LYS:HD2	45:TD:359:LYS:HG2	1.93	0.50
26:1R:465:GLU:OE2	45:ED:79:GLY:N	2.45	0.50
15:1V:35:GLY:H	44:MI:304:LYS:NZ	2.08	0.50
27:1W:106:PHE:HB3	45:LF:362:LYS:HZ2	1.70	0.50
2:3A:124:LEU:HD13	45:AN:361:LEU:CD2	2.42	0.50
22:3L:45:ARG:HE	45:BB:362:LYS:HB3	1.69	0.50
12:3S:261:LEU:CD1	45:AN:424:GLN:HG3	2.41	0.50
15:3V:69:SER:C	45:LB:121:ARG:HH21	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4R:81:ILE:N	44:ME:35:GLN:HE22	2.10	0.50
37:5C:122:ASN:CG	45:NL:19:LYS:HD3	2.31	0.50
37:5D:108:ARG:CA	44:NM:281:ALA:HB2	2.42	0.50
39:5I:72:PHE:HA	39:5I:75:ILE:CG1	2.41	0.50
35:5R:28:THR:CB	44:LG:46:ASP:HB2	2.38	0.50
35:5R:456:TYR:HE1	35:5R:469:LYS:HG3	1.75	0.50
35:6R:266:SER:OG	35:6R:267:LEU:N	2.42	0.50
35:6R:414:ASN:O	35:6R:418:THR:HG22	2.12	0.50
45:AB:8:GLN:CG	45:AB:65:LEU:HG	2.42	0.50
44:AC:17:GLY:HA2	44:AC:20:CYS:SG	2.52	0.50
44:AC:183:GLU:HG2	44:AC:184:PRO:CD	2.42	0.50
44:AC:246:GLY:HA2	44:AC:357:TYR:HE2	1.74	0.50
45:AD:33:THR:O	45:AD:58:ARG:HG3	2.11	0.50
45:AD:205:GLU:O	45:AD:208:TYR:HB2	2.12	0.50
45:AF:60:VAL:HG23	45:AF:86:ARG:NH1	2.27	0.50
44:AG:49:PHE:O	44:AG:53:PHE:HB2	2.12	0.50
45:AH:416:ASN:HA	45:AH:419:VAL:CG1	2.42	0.50
44:AI:89:PRO:HD3	44:BI:283:HIS:CD2	2.47	0.50
44:AI:399:TYR:CD1	44:AI:402:ARG:HG2	2.47	0.50
45:AJ:163:ILE:HA	45:AJ:197:ASP:OD2	2.12	0.50
45:AL:286:VAL:CG1	45:AL:325:GLU:HG2	2.42	0.50
44:AM:2:ARG:HD3	44:AM:2:ARG:N	2.26	0.50
44:AM:96:LYS:HD3	45:AN:1:MET:HE1	1.92	0.50
44:BA:191:THR:HA	44:BA:194:LEU:HD21	1.94	0.50
44:BC:368:LEU:HD12	44:BC:368:LEU:H	1.77	0.50
45:BD:9:GLY:HA2	45:BD:66:MET:O	2.12	0.50
45:BD:167:PHE:CD2	45:BD:233:MET:HE3	2.47	0.50
45:BD:173:PRO:HG3	45:BD:380:ARG:HD3	1.93	0.50
44:BE:93:ILE:HD12	44:BE:93:ILE:H	1.77	0.50
45:BF:12:CYS:HB2	48:BF:502:GDP:O4'	2.12	0.50
44:BG:275:ILE:CD1	44:BG:368:LEU:HD21	2.42	0.50
45:BH:267:MET:HE3	45:BH:301:CYS:HB2	1.93	0.50
44:BI:143:GLY:HA3	46:BI:501:GTP:O2B	2.11	0.50
44:CA:16:VAL:HG21	44:CA:231:ILE:HG21	1.94	0.50
45:CB:35:THR:HB	45:CB:37:HIS:HE1	1.77	0.50
45:CB:217:LEU:CD1	45:CB:220:PRO:HG3	2.42	0.50
45:CB:246:LEU:HD11	44:CC:224:TYR:HE2	1.77	0.50
45:CB:312:THR:O	45:CB:370:ASN:N	2.41	0.50
44:CC:287:SER:O	44:CC:290:GLU:HG2	2.11	0.50
44:CE:88:HIS:O	44:CE:91:GLN:HG2	2.12	0.50
44:CE:172:TYR:HB3	44:CE:173:PRO:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:87:PRO:HA	45:CF:90:PHE:CD2	2.44	0.50
44:CG:68:LEU:HD21	44:CG:118:CYS:HB2	1.92	0.50
45:CH:65:LEU:HD22	45:CH:90:PHE:CE2	2.47	0.50
45:CJ:67:ASP:O	45:CJ:73:MET:HE1	2.12	0.50
45:CJ:134:GLN:HA	45:CJ:165:GLU:O	2.12	0.50
45:CL:19:LYS:HD2	45:CL:227:HIS:ND1	2.27	0.50
45:CL:62:ARG:HG3	45:CL:62:ARG:HH11	1.76	0.50
45:CN:58:ARG:HH22	45:DN:281:TYR:HA	1.76	0.50
45:CN:64:ILE:HG13	45:CN:89:ASN:CG	2.31	0.50
45:CN:161:ASP:O	45:CN:251:ARG:NH2	2.39	0.50
45:CN:171:PRO:HG3	45:CN:181:GLU:HB3	1.93	0.50
45:DB:184:ASN:OD1	45:DB:185:ALA:N	2.44	0.50
45:DB:286:VAL:O	45:DB:290:THR:HG22	2.12	0.50
44:DC:264:ARG:HH21	44:DC:428:LEU:N	2.08	0.50
45:DD:134:GLN:O	45:DD:135:ILE:HD13	2.11	0.50
45:DD:236:VAL:HG13	45:DD:253:LEU:HD22	1.93	0.50
45:DD:293:MET:HE2	45:DD:367:PHE:HB2	1.92	0.50
44:DE:107:HIS:O	44:DE:112:LYS:HD3	2.12	0.50
44:DE:205:ASP:CG	44:DE:304:LYS:H	2.15	0.50
45:DF:256:ASN:ND2	45:DF:350:LYS:HD2	2.27	0.50
44:DG:151:SER:HB3	44:DG:193:SER:OG	2.12	0.50
44:DG:256:GLN:NE2	45:DH:397:TRP:HZ2	2.10	0.50
44:DG:287:SER:O	44:DG:290:GLU:HG2	2.11	0.50
45:DJ:97:ALA:O	45:DJ:103:LYS:HE3	2.12	0.50
44:DM:7:ILE:CD1	44:DM:122:ILE:HD11	2.41	0.50
44:DM:9:VAL:HG12	44:DM:139:ASN:HB3	1.93	0.50
44:DM:209:ILE:O	44:DM:212:ILE:HB	2.12	0.50
44:DM:288:VAL:O	44:DM:291:ILE:N	2.35	0.50
45:DN:50:TYR:CE2	45:DN:241:ARG:HD3	2.47	0.50
45:DN:122:LYS:O	45:DN:126:GLY:N	2.44	0.50
45:DN:211:CYS:HA	45:DN:215:LEU:HB2	1.94	0.50
45:DN:383:GLU:HA	45:DN:386:THR:HG22	1.93	0.50
44:EA:11:GLN:HG3	44:EA:74:VAL:CG1	2.37	0.50
44:EA:209:ILE:HG21	44:EA:227:LEU:HD23	1.92	0.50
44:EA:272:TYR:HA	44:EA:376:CYS:HA	1.94	0.50
44:EA:327:ASP:OD1	44:EA:328:VAL:N	2.45	0.50
45:EB:4:ILE:HA	45:EB:132:GLY:O	2.12	0.50
45:EB:106:TYR:HE2	45:EB:403:MET:HB3	1.77	0.50
45:EB:117:LEU:HD22	45:EB:154:LYS:HD2	1.94	0.50
45:EB:141:GLY:HA3	48:EB:501:GDP:O2B	2.11	0.50
44:EC:319:TYR:CE1	44:EC:375:VAL:HG21	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:151:LEU:HG	45:ED:154:LYS:NZ	2.26	0.50
45:ED:172:SER:OG	45:ED:175:VAL:HG22	2.12	0.50
45:ED:318:ARG:HH11	45:ED:358:PRO:HG3	1.77	0.50
45:EF:19:LYS:O	45:EF:22:GLU:HB3	2.11	0.50
45:EF:344:TRP:CD1	44:EG:401:LYS:HE3	2.46	0.50
45:EH:192:LEU:HG	45:EH:196:ALA:CB	2.41	0.50
45:EH:193:VAL:HA	45:EH:264:HIS:NE2	2.26	0.50
45:EH:199:CYS:SG	45:EH:265:PHE:HA	2.52	0.50
45:EH:246:LEU:HD11	44:EI:224:TYR:CE2	2.46	0.50
44:EI:176:GLN:HG2	44:EI:177:VAL:N	2.27	0.50
45:EJ:318:ARG:HD3	45:EJ:358:PRO:HD3	1.94	0.50
44:EK:103:PHE:CD1	44:EK:147:SER:HB2	2.46	0.50
44:EK:215:ARG:CD	44:EK:216:ASN:OD1	2.53	0.50
44:EK:269:LEU:CD1	44:EK:305:CYS:HB3	2.35	0.50
45:EL:272:PRO:HB3	45:EL:292:GLN:OE1	2.12	0.50
44:EM:88:HIS:CE1	44:EM:89:PRO:HD2	2.47	0.50
44:EM:205:ASP:CG	44:EM:303:ALA:HA	2.32	0.50
45:EN:8:GLN:HE21	45:EN:14:ASN:HA	1.75	0.50
45:EN:237:THR:HB	45:EN:250:LEU:HD21	1.93	0.50
44:FA:145:THR:HA	44:FA:149:LEU:HD23	1.94	0.50
44:FA:269:LEU:HD23	44:FA:269:LEU:H	1.77	0.50
44:FA:332:ILE:HG22	44:FA:336:LYS:HZ2	1.76	0.50
44:FE:221:ARG:NE	45:FF:322:SER:HB2	2.26	0.50
44:FE:339:ARG:HD3	44:FE:339:ARG:H	1.77	0.50
45:FF:344:TRP:HB3	45:FF:430:ALA:HB2	1.94	0.50
45:FH:86:ARG:HA	45:GH:281:TYR:HD2	1.77	0.50
45:FH:97:ALA:HB1	45:FH:103:LYS:HB3	1.94	0.50
44:FI:210:TYR:CE1	44:FI:227:LEU:HD21	2.46	0.50
45:FJ:3:GLU:HG3	45:FJ:62:ARG:HH12	1.76	0.50
45:FJ:230:SER:HA	45:FJ:233:MET:HE3	1.94	0.50
44:FK:256:GLN:HE22	45:FN:397:TRP:HH2	1.60	0.50
45:FL:213:ARG:HH21	45:FL:297:LYS:CD	2.25	0.50
45:FN:51:TYR:CE1	45:FN:61:PRO:HG3	2.43	0.50
45:FN:312:THR:HG22	45:FN:370:ASN:HB2	1.94	0.50
44:GA:90:GLU:HG3	44:GA:121:ARG:NH1	2.27	0.50
44:GA:91:GLN:HB3	44:GA:121:ARG:NH2	2.26	0.50
44:GA:214:ARG:HG3	44:GA:219:ILE:O	2.12	0.50
45:GB:139:LEU:HG	45:GB:188:SER:OG	2.11	0.50
44:GC:137:VAL:CG2	44:GC:168:GLY:HA2	2.42	0.50
45:GD:178:THR:CB	45:GD:181:GLU:HG3	2.31	0.50
45:GD:256:ASN:CG	45:GD:350:LYS:HD2	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:268:ILE:C	45:GD:300:MET:HE3	2.33	0.50
44:GE:24:PHE:CE2	44:GE:52:PHE:HE1	2.28	0.50
44:GE:268:MET:HA	44:GE:380:ASN:HA	1.94	0.50
45:GH:290:THR:HG21	45:GH:329:GLN:HE21	1.77	0.50
44:GI:97:GLU:HG3	44:GI:105:ARG:HH12	1.77	0.50
45:GJ:403:MET:HG3	45:GJ:407:GLU:OE2	2.12	0.50
45:GL:316:LEU:HA	45:GL:352:SER:HB2	1.94	0.50
44:GM:141:VAL:HG12	44:GM:173:PRO:HD3	1.94	0.50
45:GN:101:TRP:NE1	45:GN:146:GLY:HA2	2.27	0.50
45:GN:312:THR:OG1	45:GN:348:ASN:HB2	2.12	0.50
44:HA:141:VAL:CG1	44:HA:172:TYR:HA	2.41	0.50
44:HA:324:VAL:HG22	44:HA:325:PRO:HD2	1.94	0.50
45:HB:4:ILE:HG23	45:HB:131:GLN:HB3	1.93	0.50
45:HB:268:ILE:HA	45:HB:367:PHE:O	2.12	0.50
45:HB:389:PHE:O	45:HB:392:LYS:HD3	2.12	0.50
44:HC:71:GLU:CD	44:HC:73:THR:H	2.15	0.50
45:HD:163:ILE:HG13	45:HD:164:MET:N	2.25	0.50
45:HD:267:MET:SD	45:HD:374:ILE:HG22	2.52	0.50
44:HE:407:TRP:HZ3	45:HF:255:VAL:CA	2.19	0.50
45:HF:5:VAL:HA	45:HF:62:ARG:HD3	1.93	0.50
44:HG:269:LEU:HD22	44:HG:381:SER:OG	2.11	0.50
45:HH:178:THR:HB	45:HH:181:GLU:HG2	1.93	0.50
45:HH:351:SER:O	45:HH:352:SER:OG	2.28	0.50
45:HH:388:MET:CE	45:HH:388:MET:HA	2.41	0.50
45:HL:282:ARG:HG3	45:HL:282:ARG:HH11	1.76	0.50
44:HM:3:GLU:OE2	44:HM:132:LEU:N	2.45	0.50
45:HN:178:THR:CG2	45:HN:179:VAL:N	2.75	0.50
45:HN:244:GLY:HA2	45:HN:355:ASP:CG	2.32	0.50
44:IA:13:GLY:O	44:IA:16:VAL:N	2.44	0.50
44:IA:60:LYS:HD3	45:JB:281:TYR:CD1	2.47	0.50
44:IE:14:ILE:CD1	44:IE:69:ASP:HB2	2.35	0.50
44:IE:23:LEU:HD21	44:IE:233:GLN:OE1	2.12	0.50
45:IF:174:LYS:HD3	45:IF:174:LYS:N	2.26	0.50
45:IF:325:GLU:HG3	45:IF:328:GLU:OE2	2.12	0.50
44:IG:102:ASN:CG	44:IG:105:ARG:HG3	2.32	0.50
44:IG:407:TRP:HZ3	45:IH:255:VAL:CG2	2.24	0.50
44:II:31:GLN:HG3	44:II:32:PRO:CD	2.41	0.50
44:II:320:ARG:CD	44:II:360:PRO:HD3	2.41	0.50
44:II:346:TRP:CD1	45:IL:391:ARG:NH2	2.79	0.50
45:IJ:283:ALA:O	45:IJ:288:GLU:HG3	2.12	0.50
45:IJ:289:LEU:CD1	45:IJ:363:MET:HE3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:391:ARG:HB2	45:IJ:391:ARG:CZ	2.42	0.50
44:IK:119:LEU:CD2	44:IK:156:ARG:HG2	2.38	0.50
44:IK:269:LEU:HD23	44:IK:269:LEU:H	1.77	0.50
44:IM:5:ILE:HG21	44:IM:125:LEU:HD13	1.94	0.50
45:IN:149:THR:O	45:IN:153:SER:N	2.41	0.50
45:IN:208:TYR:CE1	45:IN:225:LEU:HD21	2.47	0.50
45:IN:273:LEU:H	45:IN:292:GLN:HE22	1.59	0.50
45:JB:106:TYR:O	45:JB:110:ALA:HB3	2.11	0.50
44:JC:11:GLN:HE22	44:JC:15:GLN:NE2	2.09	0.50
44:JC:123:ARG:CZ	44:JC:123:ARG:HB3	2.41	0.50
44:JC:259:LEU:HD21	44:JC:316:SER:HB3	1.93	0.50
44:JE:36:MET:CG	44:JE:37:PRO:HD2	2.41	0.50
44:JE:200:VAL:HG13	44:JE:268:MET:SD	2.51	0.50
44:JE:297:GLU:OE1	44:JE:299:ALA:N	2.43	0.50
44:JE:392:ASP:O	44:JE:395:PHE:N	2.42	0.50
44:JE:398:MET:CE	44:JE:403:ALA:HB3	2.35	0.50
45:JF:175:VAL:HG23	45:JF:205:GLU:HG2	1.94	0.50
45:JF:285:THR:HA	45:JF:363:MET:HE3	1.94	0.50
44:JG:63:PRO:HG2	44:JG:86:LEU:HG	1.94	0.50
44:JG:292:THR:CG2	44:JG:331:SER:HB2	2.40	0.50
45:JH:214:THR:HG23	45:JH:215:LEU:N	2.27	0.50
45:JJ:332:ASN:OD1	45:JJ:336:LYS:HG2	2.11	0.50
44:JK:394:LYS:O	44:JK:398:MET:HG2	2.12	0.50
45:JL:100:ASN:ND2	45:JL:103:LYS:HG3	2.26	0.50
45:JN:245:GLN:OE1	45:JN:353:ILE:HG21	2.12	0.50
45:JN:372:THR:O	45:JN:375:GLN:HG2	2.12	0.50
44:KA:91:GLN:HG3	44:KA:92:LEU:HD12	1.93	0.50
45:KB:284:LEU:CD2	45:KB:362:LYS:HB2	2.34	0.50
44:KC:205:ASP:CG	44:KC:303:ALA:HA	2.32	0.50
44:KC:371:VAL:HG22	44:KC:373:ARG:H	1.77	0.50
45:KD:109:GLY:O	45:KD:112:LEU:N	2.41	0.50
44:KE:253:THR:O	44:KE:256:GLN:HG3	2.12	0.50
45:KF:284:LEU:CD2	45:KF:362:LYS:HE2	2.41	0.50
45:KH:49:VAL:HG11	45:KH:241:ARG:HD3	1.93	0.50
45:KH:65:LEU:HD12	45:KH:90:PHE:CZ	2.47	0.50
45:KJ:382:ALA:HB2	45:KJ:415:MET:CE	2.36	0.50
44:KM:93:ILE:HG22	44:KM:114:ILE:HD11	1.93	0.50
44:KM:96:LYS:HA	45:KN:1:MET:CE	2.41	0.50
44:KM:198:THR:HG22	44:KM:199:ASP:N	2.27	0.50
45:KN:309:ARG:NH1	45:KN:339:SER:O	2.45	0.50
44:LA:71:GLU:CD	44:LA:73:THR:H	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:51:TYR:HE1	45:LB:61:PRO:HG3	1.74	0.50
45:LB:114:ASP:O	45:LB:118:ASP:N	2.36	0.50
45:LB:141:GLY:HA3	48:LB:502:GDP:PA	2.52	0.50
45:LD:360:GLY:C	45:LD:361:LEU:HD22	2.32	0.50
44:LG:67:PHE:O	44:LG:68:LEU:HD23	2.12	0.50
44:LG:123:ARG:NE	44:LG:161:TYR:OH	2.44	0.50
44:LG:416:GLY:O	44:LG:419:SER:N	2.45	0.50
45:LH:7:ILE:HD11	45:LH:135:ILE:HD12	1.94	0.50
44:LI:349:THR:HG1	45:LL:176:SER:HG	1.60	0.50
45:LJ:8:GLN:NE2	45:LJ:14:ASN:HA	2.27	0.50
45:LJ:107:THR:HG23	45:LJ:108:GLU:N	2.27	0.50
44:MA:9:VAL:HG13	44:MA:139:ASN:HB3	1.93	0.50
44:MA:214:ARG:CZ	44:MA:215:ARG:HG2	2.42	0.50
44:MA:244:PHE:HB2	44:MA:356:ASN:HD21	1.77	0.50
45:MB:60:VAL:HG13	45:MB:60:VAL:O	2.12	0.50
45:MB:66:MET:SD	45:MB:116:VAL:HG21	2.52	0.50
45:MB:285:THR:O	45:MB:288:GLU:N	2.45	0.50
45:MB:304:ASP:OD1	45:MB:306:ARG:HG2	2.12	0.50
45:MD:110:ALA:O	45:MD:113:ILE:HG22	2.11	0.50
44:MI:35:GLN:HG2	44:MI:60:LYS:HA	1.94	0.50
44:MI:315:CYS:O	44:MI:351:PHE:HA	2.12	0.50
44:MI:332:ILE:HD11	44:MI:351:PHE:CE2	2.47	0.50
44:MK:229:ARG:O	44:MK:232:ALA:HB3	2.12	0.50
44:MM:170:THR:O	44:MM:204:LEU:HB2	2.11	0.50
45:MN:177:ASP:N	45:MN:181:GLU:OE2	2.43	0.50
45:MN:178:THR:HG21	45:MN:180:VAL:HG12	1.94	0.50
45:MN:288:GLU:HA	45:MN:291:GLN:HG2	1.93	0.50
44:NA:68:LEU:CD2	44:NA:118:CYS:HB2	2.28	0.50
44:NA:174:SER:HB2	44:NA:177:VAL:CG2	2.42	0.50
44:NA:256:GLN:O	44:NA:260:VAL:HG12	2.12	0.50
45:NB:269:GLY:HA2	45:NB:300:MET:CE	2.41	0.50
45:NB:387:ALA:HB3	45:NB:388:MET:HE2	1.94	0.50
45:ND:113:ILE:HD13	45:ND:150:LEU:CD2	2.42	0.50
44:NE:11:GLN:HB2	46:NE:501:GTP:PB	2.51	0.50
44:NE:257:THR:HA	45:NH:397:TRP:CE2	2.46	0.50
45:NF:77:ARG:HG3	45:NF:82:GLY:O	2.11	0.50
44:NG:229:ARG:CZ	44:NG:229:ARG:HB2	2.42	0.50
44:NG:287:SER:CB	44:NG:290:GLU:HG2	2.38	0.50
45:NH:117:LEU:CA	45:NH:120:VAL:HG12	2.40	0.50
45:NH:320:ARG:O	45:NH:320:ARG:HG3	2.12	0.50
44:NI:411:GLU:N	44:NI:411:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:50:TYR:OH	45:NJ:237:THR:HG21	2.12	0.50
45:NL:52:ASN:O	45:NL:60:VAL:HG22	2.12	0.50
45:NL:342:VAL:HG22	45:NL:343:GLU:N	2.27	0.50
45:NN:113:ILE:CD1	45:NN:150:LEU:HD23	2.42	0.50
44:OA:288:VAL:HG11	44:OA:327:ASP:CB	2.41	0.50
44:OA:370:LYS:HG3	44:OA:371:VAL:N	2.27	0.50
45:OB:36:TYR:CE2	45:OB:44:LEU:HG	2.47	0.50
44:OC:194:LEU:HD11	44:OC:198:THR:HG21	1.94	0.50
44:OE:260:VAL:O	44:OE:260:VAL:HG23	2.11	0.50
45:OF:30:ILE:CD1	45:OF:59:TYR:HD2	2.25	0.50
45:OF:30:ILE:HD11	45:OF:59:TYR:HD2	1.77	0.50
45:OH:130:LEU:HB2	45:OH:162:ARG:CZ	2.42	0.50
45:OH:173:PRO:HD3	45:OH:380:ARG:CZ	2.42	0.50
44:OK:250:VAL:HG12	44:OK:255:PHE:HE1	1.76	0.50
44:OK:332:ILE:HG23	44:OK:351:PHE:CD2	2.46	0.50
44:OM:34:GLY:HA3	44:OM:60:LYS:CG	2.42	0.50
44:OM:287:SER:O	44:OM:291:ILE:HG12	2.12	0.50
45:ON:328:GLU:HA	45:ON:331:LEU:HB3	1.93	0.50
44:PA:207:GLU:HA	44:PA:210:TYR:HB2	1.94	0.50
44:PA:214:ARG:HG3	44:PA:219:ILE:O	2.11	0.50
44:PA:226:ASN:O	44:PA:229:ARG:HB2	2.11	0.50
45:PB:136:THR:HG22	45:PB:167:PHE:HB2	1.94	0.50
45:PB:139:LEU:HG	45:PB:188:SER:CB	2.40	0.50
44:PC:63:PRO:CD	44:PC:86:LEU:HG	2.42	0.50
44:PC:67:PHE:C	44:PC:68:LEU:HD12	2.31	0.50
44:PC:82:THR:HG23	44:PC:83:TYR:CD1	2.47	0.50
44:PC:122:ILE:HD12	44:PC:122:ILE:H	1.77	0.50
44:PC:425:LEU:HA	44:PC:428:LEU:HB3	1.93	0.50
45:PD:103:LYS:N	45:PD:401:GLU:OE1	2.44	0.50
45:PD:371:SER:OG	45:PD:372:THR:N	2.45	0.50
44:PG:241:SER:OG	44:PG:250:VAL:O	2.29	0.50
44:PG:270:SER:O	44:PG:302:MET:HB3	2.12	0.50
44:PI:107:HIS:HB3	44:PI:108:TYR:CE1	2.47	0.50
44:PI:115:VAL:HB	44:PI:152:LEU:HD23	1.94	0.50
45:PJ:188:SER:O	45:PJ:192:LEU:N	2.37	0.50
44:PK:307:PRO:HA	44:PK:383:ALA:CB	2.42	0.50
45:PL:8:GLN:NE2	45:PL:17:GLY:HA3	2.27	0.50
45:PL:46:ARG:HG3	45:PL:241:ARG:O	2.11	0.50
45:PL:165:GLU:OE2	45:PL:250:LEU:HD22	2.12	0.50
44:QA:103:PHE:CE1	44:QA:148:GLY:HA2	2.47	0.50
45:QB:248:SER:OG	45:QB:253:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:209:ILE:CG1	44:QC:227:LEU:HD22	2.42	0.50
44:QC:306:ASP:OD2	44:QC:309:HIS:N	2.45	0.50
45:QD:242:PHE:CD1	45:QD:356:ILE:HG13	2.46	0.50
45:QD:260:PHE:HB3	45:QD:261:PRO:HD2	1.94	0.50
44:QE:5:ILE:HD11	44:QE:129:CYS:SG	2.52	0.50
44:QE:393:HIS:O	44:QE:396:ASP:HB2	2.12	0.50
44:QG:311:LYS:HD2	44:QG:342:GLN:HG3	1.93	0.50
44:QI:326:LYS:CD	45:QJ:212:PHE:HZ	2.25	0.50
45:QJ:272:PRO:HD2	45:QJ:364:ALA:HA	1.94	0.50
45:QJ:398:TYR:O	45:QJ:403:MET:HB2	2.12	0.50
45:QL:348:ASN:HA	44:QM:181:VAL:CG1	2.42	0.50
44:QM:287:SER:O	44:QM:290:GLU:HG2	2.11	0.50
44:RA:31:GLN:OE1	44:RA:37:PRO:HG3	2.12	0.50
44:RA:326:LYS:CD	45:RB:212:PHE:HZ	2.25	0.50
45:RB:187:LEU:HD11	45:RB:408:PHE:CZ	2.47	0.50
44:RC:187:SER:O	44:RC:191:THR:N	2.43	0.50
44:RC:244:PHE:CD2	44:RC:358:GLN:HG2	2.46	0.50
45:RD:36:TYR:O	45:RD:37:HIS:HD2	1.95	0.50
44:RE:278:ALA:CB	44:RE:369:ALA:HB2	2.41	0.50
44:RE:290:GLU:O	44:RE:293:ASN:HB2	2.11	0.50
45:RF:305:PRO:HA	45:RF:373:ALA:HB2	1.94	0.50
45:RH:1:MET:SD	45:RH:2:ARG:HD3	2.52	0.50
45:RH:248:SER:HA	45:RH:252:LYS:HD2	1.94	0.50
44:RI:183:GLU:N	44:RI:184:PRO:HD2	2.27	0.50
44:RK:188:ILE:CD1	44:RK:425:LEU:HD11	2.41	0.50
44:RK:268:MET:SD	44:RK:380:ASN:HB2	2.51	0.50
44:RK:387:VAL:CA	44:RK:390:ARG:HG2	2.40	0.50
45:RL:67:ASP:OD1	45:RL:68:LEU:N	2.45	0.50
45:RL:289:LEU:HD22	45:RL:365:VAL:HG23	1.94	0.50
44:RM:23:LEU:HD21	44:RM:233:GLN:OE1	2.11	0.50
45:RN:7:ILE:O	45:RN:135:ILE:HA	2.12	0.50
44:SA:171:ILE:HD13	46:SA:501:GTP:HN22	1.77	0.50
44:SA:215:ARG:NH2	44:SA:299:ALA:O	2.45	0.50
44:SC:123:ARG:HG3	44:SC:123:ARG:NH1	2.27	0.50
44:SC:182:VAL:HG23	44:SC:185:TYR:HD2	1.77	0.50
44:SC:210:TYR:O	44:SC:213:CYS:N	2.36	0.50
45:SD:81:PHE:O	45:SD:84:LEU:HD13	2.12	0.50
45:SD:268:ILE:HG22	45:SD:368:VAL:HG13	1.94	0.50
44:SE:209:ILE:HG21	44:SE:227:LEU:HB3	1.93	0.50
44:SE:325:PRO:HG2	45:SF:222:TYR:CE1	2.46	0.50
44:SG:231:ILE:O	44:SG:234:VAL:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:54:ALA:HB3	45:SH:58:ARG:CG	2.42	0.50
44:SI:67:PHE:C	44:SI:68:LEU:HD12	2.32	0.50
44:SI:261:PRO:HA	45:SJ:394:PHE:HD1	1.76	0.50
44:SK:204:LEU:CD1	44:SK:231:ILE:HG23	2.41	0.50
45:SL:190:HIS:ND1	45:SL:411:ALA:HA	2.27	0.50
44:SM:154:LEU:HB3	44:SM:197:HIS:HB3	1.94	0.50
45:SN:121:ARG:HG3	45:SN:159:TYR:OH	2.12	0.50
45:SN:180:VAL:HG23	45:SN:183:TYR:CD2	2.47	0.50
45:SN:242:PHE:CE1	45:SN:356:ILE:HG21	2.47	0.50
45:SN:311:LEU:N	45:SN:370:ASN:O	2.43	0.50
44:TA:269:LEU:HD23	44:TA:269:LEU:H	1.76	0.50
45:TB:121:ARG:HH12	45:TB:124:ALA:CB	2.25	0.50
44:TC:143:GLY:HA3	46:TC:501:GTP:PB	2.52	0.50
44:TC:315:CYS:SG	44:TC:379:SER:HB2	2.52	0.50
45:TD:260:PHE:HB2	45:TD:263:LEU:HD13	1.93	0.50
45:TD:390:ARG:O	45:TD:392:LYS:NZ	2.45	0.50
44:TE:54:SER:CB	44:TE:64:ARG:HE	2.16	0.50
44:TE:224:TYR:CE1	46:TE:501:GTP:C6	2.97	0.50
44:TE:344:VAL:HG21	44:TE:346:TRP:CE2	2.47	0.50
45:TF:268:ILE:HB	45:TF:367:PHE:O	2.12	0.50
45:TF:303:ALA:HB2	45:TF:377:MET:CE	2.42	0.50
45:TH:133:PHE:O	45:TH:165:GLU:HB2	2.12	0.50
45:TH:209:ASP:OD1	45:TH:213:ARG:HD3	2.12	0.50
45:TH:372:THR:O	45:TH:375:GLN:HG2	2.11	0.50
45:TH:405:GLU:O	45:TH:408:PHE:N	2.45	0.50
44:TI:67:PHE:C	44:TI:68:LEU:HD12	2.32	0.50
44:TI:88:HIS:HA	44:UI:283:HIS:CG	2.46	0.50
44:TI:174:SER:OG	44:TI:206:ASN:HB2	2.11	0.50
44:TI:240:ALA:HA	44:TI:243:ARG:HE	1.76	0.50
44:TI:417:GLU:O	44:TI:420:GLU:HG2	2.12	0.50
45:TJ:235:GLY:O	45:TJ:238:CYS:N	2.22	0.50
45:TJ:260:PHE:HB3	45:TJ:262:ARG:NH1	2.27	0.50
45:TJ:309:ARG:NH2	45:TJ:426:GLN:O	2.45	0.50
45:TJ:344:TRP:CZ3	44:TK:403:ALA:HB2	2.38	0.50
45:TJ:358:PRO:CG	45:TJ:364:ALA:HB2	2.41	0.50
44:TK:175:PRO:HG3	44:TK:390:ARG:HD2	1.94	0.50
44:TK:236:SER:O	44:TK:320:ARG:NH1	2.45	0.50
45:UB:10:GLY:CA	45:UB:144:GLY:HA2	2.41	0.50
45:UB:207:LEU:HD13	45:UB:225:LEU:HB3	1.93	0.50
45:UB:264:HIS:HA	45:UB:266:PHE:CE1	2.47	0.50
45:UB:286:VAL:HG12	45:UB:325:GLU:OE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:345:ILE:HG23	45:UB:348:ASN:HB3	1.93	0.50
44:UC:257:THR:HG22	45:UD:397:TRP:CH2	2.47	0.50
45:UD:267:MET:HE3	45:UD:299:MET:CG	2.39	0.50
45:UF:42:LEU:HD22	45:UF:356:ILE:HD11	1.94	0.50
45:UF:193:VAL:O	45:UF:264:HIS:NE2	2.40	0.50
45:UF:252:LYS:HA	45:UF:255:VAL:HB	1.94	0.50
45:UF:344:TRP:CZ3	44:UG:401:LYS:HE3	2.47	0.50
44:UI:62:VAL:HG13	44:UI:62:VAL:O	2.12	0.50
44:UI:146:GLY:H	46:UI:501:GTP:PB	2.35	0.50
44:UI:248:LEU:HD23	44:UI:354:GLY:HA2	1.93	0.50
45:UJ:68:LEU:HB2	45:UJ:147:MET:CE	2.26	0.50
45:UJ:285:THR:CG2	45:UJ:287:PRO:HD2	2.42	0.50
44:UK:307:PRO:CD	44:UK:308:ARG:N	2.75	0.50
45:UL:312:THR:CG2	45:UL:370:ASN:HB3	2.42	0.50
44:UM:141:VAL:HG13	44:UM:142:GLY:N	2.27	0.50
44:UM:183:GLU:HG2	44:UM:184:PRO:HD3	1.94	0.50
45:VB:23:VAL:CA	45:VB:26:ASP:HB2	2.38	0.50
45:VB:325:GLU:HG3	45:VB:328:GLU:OE2	2.12	0.50
44:VC:84:ARG:HG3	44:VC:85:GLN:NE2	2.26	0.50
44:VC:88:HIS:HB3	44:VC:91:GLN:CG	2.42	0.50
45:VD:1:MET:HE1	45:VD:2:ARG:HD3	1.94	0.50
45:VD:234:SER:O	45:VD:237:THR:N	2.44	0.50
45:VF:65:LEU:HD11	45:VF:85:PHE:CE2	2.46	0.50
45:VH:101:TRP:HB3	45:VH:398:TYR:CE1	2.47	0.50
44:VI:102:ASN:O	44:VI:105:ARG:HB2	2.12	0.50
45:VJ:193:VAL:CG1	45:VJ:414:ASN:HD21	2.25	0.50
45:VN:313:ALA:HB3	45:VN:349:ILE:CA	2.38	0.50
44:WA:103:PHE:CE1	44:WA:148:GLY:HA2	2.46	0.50
44:WA:219:ILE:CG2	44:WA:222:PRO:HB3	2.42	0.50
44:WA:229:ARG:NH2	44:WA:367:ASP:OD2	2.45	0.50
45:WB:19:LYS:HG3	45:WB:23:VAL:CG2	2.34	0.50
44:WC:288:VAL:O	44:WC:292:THR:HG23	2.12	0.50
45:WD:153:SER:HA	45:WD:195:ASN:HD22	1.77	0.50
45:WD:304:ASP:OD2	45:WD:307:HIS:NE2	2.45	0.50
44:WE:206:ASN:HB3	44:WE:210:TYR:CE1	2.47	0.50
44:WG:132:LEU:O	44:WG:164:LYS:HE2	2.12	0.50
44:WG:326:LYS:HA	44:WG:329:ASN:OD1	2.12	0.50
44:WI:138:PHE:HE2	44:WI:235:ILE:HD11	1.76	0.50
45:WJ:204:ASN:ND2	48:WJ:502:GDP:HN22	2.09	0.50
44:WK:73:THR:HA	45:WL:46:ARG:HH22	1.77	0.50
45:WL:181:GLU:N	45:WL:182:PRO:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:84:ARG:NH1	44:WM:85:GLN:OE1	2.45	0.50
44:WM:317:MET:CE	44:WM:375:VAL:HG22	2.40	0.50
45:WN:22:GLU:HG2	45:WN:81:PHE:HB2	1.93	0.50
3:0B:71:ILE:CG1	45:JH:279:GLN:HE21	2.24	0.49
3:0B:166:GLU:HG3	45:JJ:359:LYS:NZ	2.25	0.49
9:1H:275:TYR:CZ	45:HF:362:LYS:HG3	2.47	0.49
20:1J:102:MET:HG3	40:6F:51:TYR:CE1	2.46	0.49
23:1M:288:LEU:HD22	40:6F:55:THR:OG1	2.12	0.49
26:1R:29:LYS:HD2	44:MC:47:ASP:CG	2.32	0.49
27:1W:213:GLN:OE1	44:LA:369:ALA:HA	2.11	0.49
27:1W:213:GLN:HE22	44:LA:370:LYS:H	1.58	0.49
16:1X:3:ARG:HA	44:ME:245:ASP:OD1	2.10	0.49
31:2H:187:LEU:CD1	45:AD:276:ARG:HH22	2.17	0.49
21:2K:290:GLN:HB3	45:GL:362:LYS:HZ2	1.76	0.49
28:4C:298:PRO:CB	45:KN:357:PRO:HG2	2.41	0.49
16:4X:6:GLU:OE2	45:LL:223:GLY:HA3	2.11	0.49
38:5H:33:TYR:O	44:NK:85:GLN:NE2	2.45	0.49
38:5H:49:ASP:HB3	45:ON:219:THR:OG1	2.11	0.49
39:5J:97:LYS:O	39:5J:100:THR:HG22	2.12	0.49
11:5Q:180:GLU:HG2	11:5Q:181:PHE:N	2.26	0.49
11:6Q:20:LYS:HG2	11:6Q:23:GLN:OE1	2.11	0.49
35:6R:268:GLU:CB	45:DN:280:GLN:NE2	2.75	0.49
35:7R:204:VAL:HG22	35:7R:205:PRO:CD	2.42	0.49
35:7R:456:TYR:CE1	35:7R:469:LYS:HG3	2.47	0.49
43:8R:207:UNK:CD1	45:PH:276:ARG:HD2	2.42	0.49
45:AB:143:THR:O	45:AB:147:MET:HG2	2.11	0.49
44:AC:22:GLU:HG3	44:AC:83:TYR:HE2	1.75	0.49
45:AD:86:ARG:HH22	45:BD:281:TYR:HB2	1.76	0.49
44:AE:32:PRO:HB3	44:AE:83:TYR:CE1	2.47	0.49
44:AE:105:ARG:HH21	44:AE:110:ILE:HG13	1.76	0.49
44:AE:311:LYS:HB2	44:AE:382:THR:HG21	1.93	0.49
45:AF:6:HIS:HE2	45:AF:8:GLN:HB3	1.77	0.49
45:AF:283:ALA:HB2	45:MF:54:ALA:CB	2.42	0.49
45:AF:321:MET:N	45:AF:321:MET:SD	2.85	0.49
44:AG:145:THR:HG23	46:AG:501:GTP:O1B	2.12	0.49
44:AG:269:LEU:HB2	44:AG:303:ALA:HB3	1.94	0.49
45:AH:330:MET:O	45:AH:333:VAL:HG12	2.12	0.49
44:AI:21:TRP:CZ2	44:AI:65:ALA:HB2	2.47	0.49
45:AJ:169:VAL:HA	45:AJ:202:ILE:O	2.12	0.49
44:AM:102:ASN:HB3	44:AM:105:ARG:HG3	1.94	0.49
44:AM:105:ARG:HG2	44:AM:411:GLU:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:137:VAL:CG1	44:AM:168:GLY:HA2	2.42	0.49
45:AN:51:TYR:HD1	45:AN:60:VAL:O	1.95	0.49
44:BA:16:VAL:HG12	44:BA:228:ASN:OD1	2.12	0.49
44:BA:200:VAL:HG13	44:BA:268:MET:SD	2.51	0.49
44:BC:257:THR:HG22	45:BF:397:TRP:CD2	2.47	0.49
45:BD:325:GLU:O	45:BD:329:GLN:HB2	2.12	0.49
45:BF:3:GLU:HB3	45:BF:49:VAL:HA	1.94	0.49
45:BH:16:ILE:HD13	45:BH:226:ASN:OD1	2.12	0.49
44:BI:221:ARG:CZ	45:BJ:322:SER:HB3	2.41	0.49
45:BJ:86:ARG:HH22	45:BJ:89:ASN:HB2	1.76	0.49
45:BJ:143:THR:HG22	48:BJ:502:GDP:O1B	2.12	0.49
45:BJ:257:LEU:HA	45:BJ:312:THR:CG2	2.35	0.49
44:BK:69:ASP:OD1	44:BK:70:LEU:N	2.45	0.49
45:BL:163:ILE:CD1	45:BL:250:LEU:HB2	2.41	0.49
44:BM:407:TRP:CZ3	45:BN:255:VAL:HG22	2.47	0.49
45:BN:1:MET:CE	45:BN:2:ARG:HD3	2.42	0.49
45:BN:103:LYS:O	45:BN:108:GLU:HB2	2.12	0.49
45:BN:165:GLU:OE2	45:BN:250:LEU:HD13	2.12	0.49
45:BN:211:CYS:O	45:BN:215:LEU:HB2	2.12	0.49
44:CA:46:ASP:HA	44:CA:49:PHE:HE2	1.74	0.49
44:CA:156:ARG:O	44:CA:159:VAL:HG12	2.12	0.49
44:CA:213:CYS:CB	44:CA:219:ILE:HB	2.39	0.49
45:CB:10:GLY:HA2	45:CB:66:MET:CG	2.42	0.49
45:CD:162:ARG:NE	45:CD:162:ARG:HA	2.27	0.49
45:CF:361:LEU:HA	45:CF:362:LYS:CB	2.24	0.49
44:CG:276:ILE:HG13	44:CG:280:LYS:HZ1	1.77	0.49
44:CG:288:VAL:HA	44:CG:291:ILE:CG1	2.42	0.49
44:CI:182:VAL:O	44:CI:182:VAL:HG22	2.12	0.49
44:CM:2:ARG:HH22	44:CM:48:ALA:HA	1.76	0.49
44:CM:9:VAL:HG21	44:CM:149:LEU:CB	2.42	0.49
44:CM:13:GLY:HA2	44:CM:16:VAL:CG1	2.40	0.49
44:CM:183:GLU:HG2	44:CM:184:PRO:HD3	1.94	0.49
44:CM:276:ILE:CD1	44:CM:281:ALA:HA	2.40	0.49
44:CM:292:THR:HG21	44:CM:331:SER:HB3	1.94	0.49
44:DA:81:GLY:O	44:DA:82:THR:OG1	2.25	0.49
44:DA:192:HIS:HD1	44:DA:424:ASP:HB2	1.76	0.49
44:DA:235:ILE:O	44:DA:239:THR:N	2.38	0.49
45:DB:377:MET:O	45:DB:381:VAL:HG23	2.11	0.49
44:DC:35:GLN:OE1	44:DC:36:MET:N	2.42	0.49
45:DD:263:LEU:HG	45:DD:422:TYR:CE1	2.47	0.49
44:DE:287:SER:O	44:DE:290:GLU:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DE:321:GLY:O	44:DE:357:TYR:HA	2.12	0.49
45:DF:99:ASN:HA	45:DF:142:GLY:CA	2.41	0.49
44:DG:265:ILE:CG2	44:DG:432:TYR:HE1	2.25	0.49
45:DJ:49:VAL:HG21	45:DJ:241:ARG:HG2	1.93	0.49
45:DJ:190:HIS:O	45:DJ:193:VAL:HG12	2.11	0.49
45:DJ:256:ASN:O	45:DJ:257:LEU:HD12	2.12	0.49
44:DK:34:GLY:O	44:DK:60:LYS:HA	2.12	0.49
44:DK:175:PRO:HD2	44:DK:176:GLN:OE1	2.12	0.49
45:DL:3:GLU:CG	45:DL:49:VAL:HA	2.37	0.49
45:DL:167:PHE:HA	45:DL:200:MET:HB2	1.93	0.49
45:DL:347:ASN:HB3	44:DM:178:SER:OG	2.11	0.49
44:DM:65:ALA:HB3	44:DM:87:PHE:HE1	1.77	0.49
45:DN:147:MET:O	45:DN:151:LEU:HB2	2.12	0.49
44:EA:203:MET:HB2	44:EA:303:ALA:CB	2.42	0.49
44:EA:268:MET:HG2	44:EA:380:ASN:ND2	2.26	0.49
44:EC:9:VAL:HG21	44:EC:149:LEU:HB3	1.94	0.49
45:ED:262:ARG:C	45:ED:263:LEU:HD12	2.32	0.49
44:EE:93:ILE:H	44:EE:93:ILE:HD12	1.76	0.49
44:EE:175:PRO:HG2	44:EE:304:LYS:CB	2.42	0.49
45:EF:58:ARG:HD3	45:FF:281:TYR:CD1	2.47	0.49
44:EG:340:THR:HG23	44:EG:341:ILE:CG1	2.42	0.49
44:EI:262:TYR:HB3	44:EI:263:PRO:HD2	1.93	0.49
44:EK:289:ALA:O	44:EK:292:THR:HG22	2.12	0.49
45:EL:166:THR:HG1	45:EL:199:CYS:CB	2.25	0.49
45:EL:218:THR:HG23	45:EL:219:THR:HG23	1.94	0.49
45:EN:168:SER:HB2	45:EN:201:VAL:HA	1.94	0.49
45:EN:215:LEU:CD2	45:EN:273:LEU:HB3	2.41	0.49
45:EN:233:MET:SD	45:EN:234:SER:OG	2.67	0.49
45:EN:296:ALA:HA	45:EN:305:PRO:HG2	1.92	0.49
44:FA:70:LEU:CA	44:FA:95:GLY:HA3	2.26	0.49
45:FB:186:THR:CG2	45:FB:411:ALA:HB1	2.42	0.49
45:FB:206:ALA:HB2	45:FB:301:CYS:HA	1.93	0.49
45:FB:207:LEU:HB3	45:FB:225:LEU:CD2	2.35	0.49
45:FB:319:GLY:O	45:FB:355:ASP:HA	2.12	0.49
45:FB:377:MET:HA	45:FB:377:MET:HE3	1.93	0.49
45:FD:295:ASP:OD2	45:FD:297:LYS:HE2	2.12	0.49
45:FD:320:ARG:O	45:FD:321:MET:HE2	2.11	0.49
45:FH:293:MET:SD	45:FH:367:PHE:HB2	2.52	0.49
45:FJ:231:ALA:HB1	45:FJ:270:PHE:CD1	2.47	0.49
44:FK:326:LYS:O	44:FK:329:ASN:N	2.44	0.49
44:FK:398:MET:HE2	45:FL:345:ILE:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:110:ALA:HA	45:FL:113:ILE:CG2	2.42	0.49
45:FL:139:LEU:HD23	45:FL:188:SER:OG	2.11	0.49
45:FL:382:ALA:O	45:FL:386:THR:HG23	2.12	0.49
45:FN:44:LEU:CD2	45:FN:47:ILE:HD13	2.40	0.49
45:FN:136:THR:HG22	45:FN:167:PHE:CG	2.47	0.49
45:FN:271:ALA:N	45:FN:365:VAL:O	2.42	0.49
44:GA:123:ARG:O	44:GA:126:ALA:N	2.45	0.49
45:GB:202:ILE:HG23	45:GB:300:MET:HB3	1.93	0.49
44:GC:212:ILE:HD11	44:GC:300:ASN:HA	1.94	0.49
44:GC:320:ARG:HH22	44:GC:360:PRO:CA	2.24	0.49
44:GE:210:TYR:CE1	44:GE:227:LEU:HD21	2.47	0.49
44:GE:402:ARG:O	44:GE:402:ARG:HG3	2.12	0.49
45:GH:324:LYS:HA	45:GH:327:ASP:HB2	1.94	0.49
44:GI:182:VAL:O	44:GI:182:VAL:HG22	2.12	0.49
45:GJ:73:MET:HE1	45:GJ:92:PHE:HB3	1.94	0.49
45:GJ:91:VAL:HG21	45:GJ:116:VAL:HB	1.93	0.49
45:GJ:235:GLY:HA2	45:GJ:318:ARG:HH21	1.77	0.49
44:GK:164:LYS:HE2	44:GK:164:LYS:HA	1.93	0.49
44:GK:319:TYR:CE2	44:GK:328:VAL:HG22	2.46	0.49
44:GK:426:ALA:O	44:GK:429:GLU:N	2.45	0.49
45:GL:183:TYR:CE1	45:GL:388:MET:HB3	2.47	0.49
44:GM:16:VAL:HG21	44:GM:231:ILE:HG21	1.93	0.49
44:GM:205:ASP:OD2	44:GM:303:ALA:HA	2.12	0.49
45:GN:238:CYS:HB2	45:GN:318:ARG:CZ	2.41	0.49
45:HB:314:SER:HA	45:HB:350:LYS:HB3	1.94	0.49
45:HB:412:GLU:HA	45:HB:415:MET:CE	2.42	0.49
45:HD:35:THR:O	45:HD:37:HIS:ND1	2.45	0.49
45:HD:148:GLY:O	45:HD:152:ILE:HG12	2.12	0.49
44:HE:155:GLU:HA	44:HE:197:HIS:CE1	2.47	0.49
44:HE:285:GLN:HG2	44:HE:287:SER:H	1.77	0.49
44:HE:286:LEU:O	44:HE:373:ARG:HD2	2.11	0.49
45:HF:262:ARG:NH1	45:HF:421:GLU:OE1	2.44	0.49
44:HK:63:PRO:CG	44:HK:86:LEU:HD11	2.41	0.49
44:HK:203:MET:HG3	44:HK:384:ILE:CD1	2.39	0.49
44:HK:212:ILE:HD13	44:HK:215:ARG:HH21	1.77	0.49
45:HL:318:ARG:HB3	45:HL:358:PRO:HD3	1.93	0.49
44:HM:221:ARG:CD	45:HN:322:SER:HB3	2.42	0.49
45:HN:319:GLY:CA	45:HN:357:PRO:HG3	2.37	0.49
45:HN:386:THR:H	45:HN:388:MET:H	1.60	0.49
44:IA:116:ASP:O	44:IA:119:LEU:N	2.45	0.49
45:ID:248:SER:HB2	45:ID:253:LEU:CD1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:71:GLU:OE1	44:IG:73:THR:HB	2.12	0.49
44:IG:178:SER:CB	45:IH:347:ASN:HB3	2.42	0.49
45:IH:174:LYS:HE2	45:IH:174:LYS:HA	1.94	0.49
44:II:287:SER:O	44:II:290:GLU:N	2.41	0.49
44:II:370:LYS:O	44:II:370:LYS:HD2	2.11	0.49
45:IJ:294:PHE:CZ	45:IJ:330:MET:HE1	2.47	0.49
45:IL:88:ASP:OD2	45:IL:151:LEU:HD13	2.11	0.49
44:IM:186:ASN:OD1	44:IM:187:SER:N	2.45	0.49
44:JA:277:SER:C	44:JA:369:ALA:HB2	2.33	0.49
44:JA:288:VAL:HG11	44:JA:327:ASP:CB	2.42	0.49
45:JB:200:MET:SD	45:JB:268:ILE:HG22	2.52	0.49
45:JB:314:SER:HB2	45:JB:350:LYS:HD3	1.94	0.49
44:JC:268:MET:HB3	44:JC:380:ASN:CB	2.40	0.49
44:JC:301:MET:HE2	44:JC:307:PRO:HG3	1.93	0.49
44:JE:17:GLY:HA2	44:JE:20:CYS:SG	2.52	0.49
44:JG:288:VAL:HG11	44:JG:327:ASP:CG	2.33	0.49
44:JI:181:VAL:O	44:JI:184:PRO:HD2	2.12	0.49
45:JJ:287:PRO:O	45:JJ:290:THR:HG22	2.12	0.49
45:JL:183:TYR:OH	45:JL:388:MET:HG3	2.12	0.49
45:JL:385:PHE:CE2	45:JL:412:GLU:HB3	2.46	0.49
44:JM:12:GLY:O	44:JM:16:VAL:HG13	2.12	0.49
44:JM:208:ALA:O	44:JM:211:ASP:OD1	2.29	0.49
44:KA:287:SER:O	44:KA:291:ILE:HG23	2.11	0.49
45:KB:183:TYR:HH	45:KB:388:MET:HG2	1.76	0.49
45:KB:381:VAL:HA	45:KB:384:GLN:NE2	2.25	0.49
45:KD:109:GLY:O	45:KD:113:ILE:N	2.41	0.49
44:KG:340:THR:CG2	44:KG:341:ILE:HD12	2.36	0.49
45:KH:117:LEU:HD21	45:KH:121:ARG:HH22	1.76	0.49
44:KI:88:HIS:HB3	44:KI:91:GLN:CG	2.42	0.49
45:KJ:77:ARG:O	45:KJ:82:GLY:HA3	2.11	0.49
44:KM:191:THR:O	44:KM:195:LEU:HB2	2.12	0.49
45:KN:8:GLN:HE22	45:KN:17:GLY:HA3	1.74	0.49
45:KN:14:ASN:ND2	45:KN:72:THR:HG21	2.24	0.49
45:KN:100:ASN:ND2	45:KN:103:LYS:HG3	2.27	0.49
44:LA:224:TYR:HB3	46:LB:501:GTP:O6	2.12	0.49
44:LA:326:LYS:NZ	44:LA:327:ASP:OD1	2.39	0.49
45:LB:295:ASP:OD1	45:LB:297:LYS:HG2	2.12	0.49
44:LC:49:PHE:HB2	44:LC:53:PHE:HB2	1.93	0.49
45:LD:330:MET:CG	45:LD:349:ILE:HG21	2.41	0.49
44:LE:93:ILE:CD1	44:LE:117:LEU:HB3	2.41	0.49
44:LE:223:THR:HG23	44:LE:225:THR:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:4:ILE:CG2	45:LH:131:GLN:HB3	2.42	0.49
45:LH:31:ASP:HB2	45:LH:35:THR:O	2.12	0.49
45:LH:368:VAL:O	45:LH:368:VAL:HG23	2.12	0.49
44:LI:67:PHE:HB2	44:LI:92:LEU:HD22	1.93	0.49
45:LJ:36:TYR:CD1	45:LJ:44:LEU:HD21	2.47	0.49
45:LJ:286:VAL:CG2	45:LJ:321:MET:HG2	2.42	0.49
44:LK:325:PRO:HB2	45:LN:208:TYR:OH	2.11	0.49
45:LL:87:PRO:HD2	45:ML:281:TYR:CD2	2.47	0.49
45:LL:193:VAL:HG23	45:LL:264:HIS:NE2	2.27	0.49
45:LL:305:PRO:HB3	45:LL:310:TYR:CE1	2.46	0.49
44:LM:184:PRO:O	44:LM:188:ILE:HG12	2.12	0.49
44:LM:401:LYS:NZ	45:LN:428:ALA:HB1	2.27	0.49
45:LN:204:ASN:ND2	48:LN:502:GDP:O2'	2.44	0.49
44:MA:164:LYS:HE2	44:MA:164:LYS:HA	1.94	0.49
45:MB:256:ASN:C	45:MB:257:LEU:HD12	2.33	0.49
45:MD:97:ALA:CB	45:MD:143:THR:HB	2.42	0.49
45:MF:103:LYS:N	45:MF:401:GLU:OE1	2.45	0.49
44:MG:271:SER:HA	44:MG:302:MET:CE	2.42	0.49
45:MH:4:ILE:HD11	45:MH:50:TYR:OH	2.11	0.49
44:MI:10:GLY:O	44:MI:14:ILE:HG13	2.12	0.49
45:MJ:357:PRO:HB2	45:MJ:361:LEU:O	2.12	0.49
44:MM:105:ARG:HA	44:MM:109:THR:CG2	2.42	0.49
44:MM:136:LEU:CD2	44:MM:167:LEU:HD22	2.42	0.49
44:MM:305:CYS:SG	44:MM:384:ILE:HA	2.52	0.49
45:MN:16:ILE:HD11	45:MN:229:VAL:HG11	1.93	0.49
45:MN:20:PHE:O	45:MN:24:ILE:N	2.20	0.49
45:MN:42:LEU:HD13	45:MN:45:GLU:OE2	2.12	0.49
45:MN:263:LEU:HD23	45:MN:422:TYR:CE1	2.47	0.49
44:NA:96:LYS:HA	45:NB:1:MET:CE	2.41	0.49
44:NC:60:LYS:NZ	44:NC:85:GLN:O	2.40	0.49
45:ND:132:GLY:N	45:ND:162:ARG:HD2	2.27	0.49
45:ND:186:THR:HG23	45:ND:415:MET:HE1	1.92	0.49
45:ND:268:ILE:HG22	45:ND:368:VAL:HA	1.94	0.49
44:NE:295:ALA:HB1	44:NE:377:MET:HG3	1.94	0.49
44:NE:370:LYS:HD2	44:NE:370:LYS:O	2.13	0.49
45:NF:2:ARG:NH2	45:NF:240:LEU:HA	2.26	0.49
45:NF:131:GLN:HA	45:NF:162:ARG:NH1	2.27	0.49
44:NI:287:SER:HB3	44:NI:290:GLU:OE1	2.12	0.49
45:NJ:101:TRP:CH2	45:NJ:187:LEU:HB3	2.46	0.49
44:NK:344:VAL:HG21	44:NK:346:TRP:NE1	2.27	0.49
44:NK:387:VAL:HG12	44:NK:390:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:215:LEU:HD23	45:NL:217:LEU:HD23	1.94	0.49
45:NL:242:PHE:HB3	45:NL:243:PRO:HD2	1.94	0.49
44:NM:14:ILE:HG21	44:NM:74:VAL:HG13	1.94	0.49
44:NM:220:GLU:HG2	44:NM:221:ARG:HG2	1.94	0.49
45:NN:336:LYS:O	45:NN:336:LYS:HG2	2.12	0.49
44:OA:261:PRO:CG	44:OA:380:ASN:HD21	2.24	0.49
44:OC:378:ILE:O	44:OC:379:SER:OG	2.29	0.49
44:OC:387:VAL:O	44:OC:390:ARG:HG2	2.12	0.49
44:OC:397:LEU:O	44:OC:400:ALA:HB3	2.11	0.49
44:OE:33:ASP:OD2	44:OE:35:GLN:HG3	2.12	0.49
44:OE:237:SER:HA	44:OE:320:ARG:CZ	2.41	0.49
44:OE:267:PHE:CE2	44:OE:388:PHE:HZ	2.30	0.49
44:OG:9:VAL:HG11	44:OG:153:LEU:CD2	2.31	0.49
44:OG:132:LEU:HD22	44:OG:164:LYS:HG2	1.94	0.49
44:OG:207:GLU:N	44:OG:304:LYS:HE2	2.27	0.49
44:OG:245:ASP:OD1	44:OG:246:GLY:N	2.45	0.49
44:OG:250:VAL:O	44:OG:250:VAL:HG23	2.13	0.49
44:OG:282:TYR:HD2	44:OG:283:HIS:CD2	2.30	0.49
45:OH:189:VAL:HG11	45:OH:415:MET:SD	2.52	0.49
45:OH:287:PRO:CA	45:OH:329:GLN:NE2	2.74	0.49
44:OI:34:GLY:O	44:OI:60:LYS:HA	2.11	0.49
45:OJ:135:ILE:O	45:OJ:167:PHE:N	2.45	0.49
44:OK:17:GLY:O	44:OK:20:CYS:HB2	2.12	0.49
44:OK:177:VAL:CG1	45:OL:327:ASP:HB3	2.42	0.49
44:OK:221:ARG:HH21	45:OL:324:LYS:HB3	1.75	0.49
45:OL:147:MET:O	45:OL:151:LEU:HD23	2.12	0.49
44:OM:217:LEU:HB3	44:OM:219:ILE:HD12	1.93	0.49
45:ON:334:GLN:HB2	45:ON:349:ILE:CD1	2.42	0.49
45:ON:344:TRP:HE3	45:ON:345:ILE:HG23	1.77	0.49
44:PA:32:PRO:HB3	44:PA:83:TYR:CD1	2.47	0.49
44:PA:181:VAL:HG11	45:PB:256:ASN:O	2.12	0.49
44:PA:183:GLU:N	44:PA:184:PRO:HD2	2.26	0.49
45:PB:187:LEU:CD1	45:PB:403:MET:HE1	2.41	0.49
44:PC:118:CYS:O	44:PC:122:ILE:HD12	2.11	0.49
44:PC:222:PRO:CG	45:PD:324:LYS:HD3	2.39	0.49
44:PC:273:ALA:HB1	44:PC:274:PRO:HA	1.93	0.49
44:PC:426:ALA:O	44:PC:430:LYS:HG3	2.12	0.49
45:PD:151:LEU:CD2	45:PD:155:VAL:HG21	2.42	0.49
45:PD:238:CYS:SG	45:PD:318:ARG:NE	2.85	0.49
44:PE:12:GLY:N	46:PE:501:GTP:O2A	2.36	0.49
44:PG:22:GLU:HG3	44:PG:83:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:56:THR:O	44:QG:285:GLN:HA	2.11	0.49
44:PG:88:HIS:CE1	44:PG:89:PRO:HD2	2.47	0.49
44:PG:319:TYR:CZ	44:PG:328:VAL:HG22	2.47	0.49
45:PL:7:ILE:CG1	45:PL:135:ILE:HD12	2.42	0.49
45:PL:124:ALA:HB1	45:PL:159:TYR:HE2	1.77	0.49
45:PL:378:PHE:HD2	45:PL:419:VAL:HG22	1.75	0.49
45:PL:382:ALA:HB2	45:PL:415:MET:HE1	1.92	0.49
44:PM:184:PRO:HB3	44:PM:394:LYS:HB3	1.92	0.49
45:PN:49:VAL:CG1	45:PN:241:ARG:HG2	2.34	0.49
45:PN:141:GLY:O	45:PN:145:SER:HB3	2.12	0.49
44:QA:252:ILE:HG23	44:QA:255:PHE:CE2	2.47	0.49
44:QA:405:VAL:HG12	44:QA:409:VAL:CG2	2.41	0.49
45:QB:22:GLU:HA	45:QB:25:SER:OG	2.12	0.49
44:QC:192:HIS:HA	44:QC:195:LEU:HB2	1.93	0.49
44:QC:202:VAL:CG1	44:QC:269:LEU:HA	2.40	0.49
45:QD:201:VAL:HG23	45:QD:301:CYS:SG	2.52	0.49
44:QE:268:MET:HA	44:QE:380:ASN:HA	1.94	0.49
45:QF:150:LEU:HD23	45:QF:150:LEU:O	2.12	0.49
45:QF:178:THR:HG22	45:QF:180:VAL:HG12	1.93	0.49
45:QH:12:CYS:HB2	48:QH:501:GDP:N9	2.27	0.49
45:QH:302:ALA:HB3	45:QH:377:MET:HE1	1.92	0.49
44:QI:296:PHE:HD2	44:QI:335:ILE:HD11	1.76	0.49
44:QI:402:ARG:HB2	44:QI:405:VAL:CG2	2.42	0.49
45:QJ:374:ILE:HA	45:QJ:377:MET:HE2	1.92	0.49
44:QK:66:VAL:HG23	44:QK:91:GLN:CA	2.42	0.49
45:QL:116:VAL:O	45:QL:119:VAL:HG12	2.12	0.49
45:QL:193:VAL:CG2	45:QL:418:LEU:HD22	2.41	0.49
44:QM:3:GLU:OE2	44:QM:130:THR:HG22	2.12	0.49
44:QM:88:HIS:HD2	44:QM:90:GLU:HG2	1.77	0.49
44:QM:151:SER:O	44:QM:155:GLU:HG3	2.12	0.49
44:RA:413:MET:CE	44:RA:417:GLU:HB2	2.42	0.49
45:RB:251:ARG:NH2	44:RC:99:ALA:O	2.42	0.49
44:RC:71:GLU:CB	44:RC:98:ASP:HB2	2.42	0.49
45:RD:68:LEU:HD22	45:RD:143:THR:HB	1.94	0.49
44:RE:153:LEU:O	44:RE:156:ARG:N	2.45	0.49
44:RE:258:ASN:HB3	44:RE:352:LYS:HE3	1.94	0.49
45:RF:5:VAL:HG22	45:RF:133:PHE:CE1	2.46	0.49
45:RF:296:ALA:O	45:RF:299:MET:HE2	2.12	0.49
45:RF:313:ALA:HB1	45:RF:367:PHE:CE1	2.47	0.49
44:RG:141:VAL:HG21	44:RG:187:SER:HA	1.92	0.49
45:RH:274:THR:HG21	45:RH:282:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:345:ILE:O	45:RH:345:ILE:HG23	2.12	0.49
44:RI:352:LYS:HA	45:RJ:178:THR:HA	1.92	0.49
45:RJ:77:ARG:HH11	45:RJ:78:ALA:HB2	1.73	0.49
45:RJ:372:THR:HA	45:RJ:422:TYR:HE2	1.77	0.49
45:RL:256:ASN:CB	44:RM:181:VAL:HG22	2.42	0.49
45:RL:326:VAL:O	45:RL:330:MET:HE1	2.12	0.49
44:SA:108:TYR:O	44:SA:112:LYS:NZ	2.45	0.49
44:SA:230:LEU:HD13	44:SA:233:GLN:OE1	2.12	0.49
44:SA:326:LYS:HE2	45:SB:220:PRO:CD	2.41	0.49
45:SB:186:THR:HG23	45:SB:187:LEU:N	2.27	0.49
45:SB:311:LEU:HD12	45:SB:371:SER:O	2.12	0.49
45:SF:72:THR:O	45:SF:75:SER:N	2.42	0.49
44:SG:2:ARG:HA	44:SG:133:GLN:NE2	2.26	0.49
44:SG:217:LEU:HD13	44:SG:367:ASP:HB3	1.93	0.49
44:SG:346:TRP:CD1	45:SH:391:ARG:HG3	2.47	0.49
45:SH:251:ARG:HB3	44:SI:100:ALA:CB	2.42	0.49
45:SH:360:GLY:O	45:SH:361:LEU:HD23	2.12	0.49
45:SH:404:ASP:CG	45:SH:406:MET:HG2	2.31	0.49
44:SI:48:ALA:HB1	44:SI:243:ARG:O	2.12	0.49
44:SI:148:GLY:O	44:SI:151:SER:N	2.45	0.49
45:SJ:174:LYS:HB3	45:SJ:205:GLU:CG	2.42	0.49
45:SJ:344:TRP:CZ3	44:SK:403:ALA:HB2	2.40	0.49
44:SK:132:LEU:HD22	44:SK:164:LYS:HZ2	1.75	0.49
45:SL:203:ASP:OD2	45:SL:301:CYS:HB3	2.12	0.49
44:SM:75:ILE:O	44:SM:75:ILE:HG22	2.12	0.49
44:SM:208:ALA:HB3	44:SM:302:MET:O	2.12	0.49
45:SN:304:ASP:OD1	45:SN:306:ARG:HG2	2.12	0.49
45:SN:345:ILE:O	45:SN:345:ILE:HG23	2.12	0.49
44:TA:67:PHE:HB3	44:TA:75:ILE:CD1	2.42	0.49
44:TA:151:SER:HA	44:TA:154:LEU:HD12	1.93	0.49
44:TA:214:ARG:HB2	44:TA:219:ILE:O	2.11	0.49
44:TA:312:TYR:HB2	44:TA:343:PHE:CD1	2.47	0.49
45:TB:201:VAL:HG11	45:TB:374:ILE:HD13	1.94	0.49
45:TD:103:LYS:HA	45:TD:107:THR:HG1	1.77	0.49
44:TE:54:SER:HB3	44:TE:64:ARG:NE	2.18	0.49
44:TE:136:LEU:HD23	44:TE:167:LEU:HB2	1.93	0.49
44:TE:257:THR:HG22	45:TF:397:TRP:CH2	2.42	0.49
45:TF:363:MET:CE	45:TF:364:ALA:H	2.25	0.49
44:TG:55:GLU:HG3	44:TG:57:GLY:H	1.77	0.49
44:TI:108:TYR:HD1	44:TI:112:LYS:HE3	1.77	0.49
44:TI:256:GLN:NE2	44:TI:260:VAL:HG21	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:66:MET:O	45:TJ:66:MET:HG3	2.12	0.49
45:TJ:184:ASN:OD1	45:TJ:185:ALA:N	2.45	0.49
45:TJ:420:SER:CA	45:TJ:423:GLN:HG3	2.42	0.49
44:TK:301:MET:CG	44:TK:307:PRO:HG3	2.42	0.49
44:TK:315:CYS:HA	44:TK:379:SER:OG	2.12	0.49
44:TM:190:SER:O	44:TM:193:SER:HB3	2.12	0.49
44:TM:296:PHE:CE2	44:TM:335:ILE:HG21	2.47	0.49
45:UB:255:VAL:HA	44:UC:407:TRP:HZ3	1.77	0.49
45:UB:334:GLN:HB2	45:UB:349:ILE:HD11	1.92	0.49
44:UC:67:PHE:HB2	44:UC:92:LEU:HG	1.94	0.49
44:UC:319:TYR:CD2	44:UC:323:VAL:HG21	2.47	0.49
45:UD:102:ALA:O	45:UD:106:TYR:HB2	2.12	0.49
45:UF:19:LYS:HD3	45:UF:22:GLU:OE2	2.12	0.49
45:UF:294:PHE:CD2	45:UF:333:VAL:HG11	2.47	0.49
44:UG:101:ASN:CA	44:UG:144:GLY:HA3	2.37	0.49
44:UG:122:ILE:HG22	44:UG:161:TYR:OH	2.12	0.49
44:UG:176:GLN:NE2	44:UG:207:GLU:OE2	2.45	0.49
44:UG:310:GLY:N	44:UG:383:ALA:HB2	2.27	0.49
44:UG:346:TRP:CZ3	44:UG:347:CYS:HB2	2.47	0.49
45:UH:36:TYR:CD1	45:UH:44:LEU:HD21	2.47	0.49
45:UH:65:LEU:HD21	45:UH:85:PHE:HE2	1.76	0.49
45:UH:170:VAL:HG22	45:UH:201:VAL:HG21	1.94	0.49
45:UH:207:LEU:CD1	45:UH:225:LEU:HD13	2.42	0.49
44:UI:10:GLY:HA2	46:UI:501:GTP:O1B	2.11	0.49
44:UI:32:PRO:HB3	44:UI:83:TYR:CE1	2.46	0.49
44:UI:236:SER:O	44:UI:320:ARG:NH1	2.44	0.49
44:UM:21:TRP:HA	44:UM:24:PHE:CD2	2.47	0.49
44:UM:326:LYS:HD2	45:UN:208:TYR:CE1	2.47	0.49
45:UN:102:ALA:HB2	45:UN:403:MET:HE2	1.94	0.49
44:VA:115:VAL:O	44:VA:119:LEU:HD23	2.12	0.49
44:VA:315:CYS:HA	44:VA:379:SER:CB	2.42	0.49
44:VC:121:ARG:HH11	44:VC:124:LYS:HZ1	1.59	0.49
44:VC:141:VAL:CA	44:VC:147:SER:HB3	2.41	0.49
44:VC:396:ASP:OD1	44:VC:422:ARG:NE	2.38	0.49
45:VD:24:ILE:HD12	45:VD:24:ILE:H	1.77	0.49
44:VE:31:GLN:HG2	44:VE:37:PRO:HD3	1.94	0.49
44:VE:222:PRO:O	45:VF:322:SER:HB3	2.11	0.49
44:VG:271:SER:HB2	44:VG:377:MET:CG	2.42	0.49
44:VI:73:THR:HB	45:VJ:247:ASN:ND2	2.27	0.49
45:VJ:263:LEU:HG	45:VJ:422:TYR:CD1	2.46	0.49
45:VJ:371:SER:O	45:VJ:374:ILE:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:183:GLU:HG2	44:VK:184:PRO:N	2.26	0.49
45:VL:178:THR:HG22	45:VL:180:VAL:HG12	1.94	0.49
45:VL:389:PHE:O	45:VL:392:LYS:HD3	2.12	0.49
45:VN:36:TYR:CE2	45:VN:44:LEU:HG	2.47	0.49
45:VN:246:LEU:CG	45:VN:353:ILE:HD13	2.42	0.49
44:WA:223:THR:HG23	44:WA:225:THR:N	2.27	0.49
44:WA:243:ARG:NH1	44:WA:243:ARG:HB2	2.27	0.49
44:WA:388:PHE:O	44:WA:392:ASP:N	2.35	0.49
45:WB:38:GLY:HA3	45:WB:43:GLN:NE2	2.27	0.49
45:WB:204:ASN:HA	45:WB:207:LEU:HG	1.94	0.49
45:WB:257:LEU:HA	45:WB:312:THR:HG21	1.94	0.49
45:WD:200:MET:SD	45:WD:266:PHE:HB2	2.52	0.49
44:WE:302:MET:HA	44:WE:302:MET:HE2	1.94	0.49
44:WE:331:SER:O	44:WE:335:ILE:HG12	2.11	0.49
45:WF:342:VAL:HG13	45:WF:345:ILE:HG22	1.93	0.49
44:WG:6:SER:O	44:WG:66:VAL:HG12	2.12	0.49
45:WH:7:ILE:O	45:WH:135:ILE:HA	2.12	0.49
44:WI:296:PHE:CD1	44:WI:377:MET:HE1	2.46	0.49
45:WJ:135:ILE:HG22	45:WJ:137:HIS:ND1	2.27	0.49
45:WJ:275:SER:OG	45:WJ:278:SER:HB3	2.11	0.49
44:WM:349:THR:HG23	44:WM:349:THR:O	2.12	0.49
44:WM:398:MET:CA	44:WM:401:LYS:HE2	2.26	0.49
45:WN:66:MET:HA	45:WN:73:MET:HE1	1.93	0.49
1:6H:251:ASP:OD2	45:FF:360:GLY:O	2.29	0.49
3:0B:200:PHE:CE1	44:KI:370:LYS:HE3	2.47	0.49
8:0G:162:ALA:HB3	44:KM:45:GLY:HA3	1.87	0.49
10:0N:159:PRO:HD3	45:KN:227:HIS:ND1	2.26	0.49
29:2F:71:ARG:NH2	45:GF:115:SER:HA	2.23	0.49
32:2I:59:VAL:HG13	45:FH:91:VAL:HB	1.93	0.49
22:2L:365:VAL:HG21	35:6R:110:ASN:HB3	1.94	0.49
10:2N:16:ILE:HG22	45:IB:48:ASN:ND2	2.27	0.49
26:2R:24:ARG:HB3	44:MG:245:ASP:HB2	1.93	0.49
16:2X:42:LYS:HA	44:LI:58:ALA:CB	2.42	0.49
32:3I:247:ILE:HG21	44:GI:207:GLU:OE2	2.10	0.49
28:4C:298:PRO:HA	45:KN:357:PRO:HG2	1.93	0.49
37:5C:122:ASN:HB2	45:NL:19:LYS:HD3	1.92	0.49
37:5D:20:LEU:HD22	45:KN:419:VAL:HG23	1.91	0.49
37:5D:20:LEU:HD12	45:KN:416:ASN:O	2.12	0.49
38:5F:202:LYS:HB2	44:LG:422:ARG:HH12	1.77	0.49
38:5G:123:ARG:O	38:5G:124:TYR:O	2.30	0.49
38:5H:53:ALA:HB3	45:ON:224:ASP:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5K:25:VAL:HA	39:5K:28:LYS:HE2	1.92	0.49
35:5R:95:PHE:O	35:5R:117:THR:HB	2.12	0.49
35:5R:316:THR:OG1	35:5R:321:MET:HB3	2.11	0.49
36:5S:218:ILE:O	36:5S:221:THR:HB	2.13	0.49
35:6R:26:HIS:CE1	44:LK:244:PHE:HE1	2.28	0.49
35:6R:27:LYS:HZ3	44:LK:2:ARG:NH1	2.10	0.49
35:7R:54:ILE:HG13	35:7R:58:ARG:O	2.12	0.49
44:AA:276:ILE:HG21	44:AA:281:ALA:HA	1.94	0.49
45:AB:190:HIS:O	45:AB:193:VAL:HG12	2.12	0.49
45:AB:271:ALA:O	45:AB:365:VAL:HG22	2.12	0.49
44:AC:151:SER:O	44:AC:155:GLU:HG3	2.11	0.49
44:AC:217:LEU:HD21	44:AC:275:ILE:CG2	2.42	0.49
44:AC:287:SER:O	44:AC:290:GLU:HG2	2.13	0.49
45:AD:278:SER:O	45:AD:282:ARG:HG3	2.12	0.49
45:AD:317:PHE:HD2	45:AD:326:VAL:HG22	1.75	0.49
44:AE:1:MET:SD	45:AH:70:PRO:HG2	2.52	0.49
45:AF:309:ARG:N	45:AF:372:THR:HG1	2.08	0.49
45:AF:323:THR:HG22	45:AF:327:ASP:OD2	2.11	0.49
44:AG:89:PRO:HG2	44:BG:280:LYS:CD	2.43	0.49
44:AG:135:PHE:C	44:AG:136:LEU:HD12	2.32	0.49
44:AG:166:LYS:C	44:AG:167:LEU:HD12	2.33	0.49
44:AG:277:SER:O	44:AG:281:ALA:HB2	2.12	0.49
44:AG:291:ILE:HG13	44:AG:292:THR:N	2.27	0.49
45:AH:8:GLN:HE21	45:AH:65:LEU:CG	2.25	0.49
45:AH:83:GLN:O	45:BH:281:TYR:OH	2.29	0.49
45:AH:260:PHE:HB3	45:AH:261:PRO:HD2	1.93	0.49
44:AI:22:GLU:HG3	44:AI:83:TYR:OH	2.12	0.49
45:AJ:245:GLN:C	45:AJ:246:LEU:HD12	2.32	0.49
44:AK:69:ASP:OD1	44:AK:70:LEU:N	2.45	0.49
44:AK:88:HIS:CE1	44:BK:280:LYS:HD2	2.47	0.49
45:AL:47:ILE:HG12	45:AL:51:TYR:HB2	1.94	0.49
44:AM:186:ASN:OD1	44:AM:187:SER:N	2.45	0.49
45:AN:173:PRO:CD	45:AN:380:ARG:HD3	2.42	0.49
44:BA:4:VAL:HG23	44:BA:134:GLY:C	2.32	0.49
44:BA:30:ILE:HD12	44:BA:53:PHE:CD2	2.46	0.49
44:BA:183:GLU:HG2	44:BA:184:PRO:CD	2.41	0.49
45:BF:156:ARG:HG3	45:BF:195:ASN:CB	2.40	0.49
44:BG:63:PRO:CD	44:BG:86:LEU:HG	2.41	0.49
45:BH:39:ASP:N	45:BH:43:GLN:OE1	2.40	0.49
45:BH:249:ASP:OD1	45:BH:252:LYS:N	2.30	0.49
45:BJ:36:TYR:CE2	45:BJ:44:LEU:HD11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:293:MET:CE	45:BJ:367:PHE:HD1	2.24	0.49
44:BK:5:ILE:HD12	44:BK:135:PHE:CE1	2.47	0.49
44:BK:242:LEU:HD11	44:BK:252:ILE:HG13	1.94	0.49
44:BM:189:LEU:O	44:BM:192:HIS:HB3	2.12	0.49
44:BM:242:LEU:HD11	44:BM:252:ILE:HD12	1.94	0.49
45:BN:5:VAL:HG22	45:BN:133:PHE:CD1	2.47	0.49
44:CA:424:ASP:HA	44:CA:427:ALA:HB3	1.93	0.49
44:CC:3:GLU:HG2	44:CC:64:ARG:NE	2.25	0.49
44:CC:7:ILE:HD12	44:CC:122:ILE:CD1	2.42	0.49
44:CC:99:ALA:CB	44:CC:145:THR:HG22	2.37	0.49
44:CC:209:ILE:O	44:CC:212:ILE:HB	2.11	0.49
45:CD:285:THR:HB	45:CD:287:PRO:HD2	1.94	0.49
44:CE:67:PHE:O	44:CE:68:LEU:HD12	2.12	0.49
44:CG:137:VAL:HG12	44:CG:167:LEU:O	2.13	0.49
44:CG:363:VAL:HG13	44:CG:366:GLY:HA3	1.94	0.49
44:CI:267:PHE:O	44:CI:384:ILE:HD12	2.12	0.49
45:CJ:316:LEU:HB2	45:CJ:366:THR:CG2	2.42	0.49
44:CK:47:ASP:N	44:CK:47:ASP:OD1	2.45	0.49
44:CK:107:HIS:O	44:CK:107:HIS:CG	2.64	0.49
44:CK:270:SER:HB2	44:CK:378:ILE:HD13	1.92	0.49
44:CK:329:ASN:CG	45:CL:175:VAL:HG11	2.33	0.49
44:CM:315:CYS:HA	44:CM:379:SER:HA	1.93	0.49
44:DA:49:PHE:O	44:DA:53:PHE:HB2	2.12	0.49
44:DA:217:LEU:CD1	44:DA:367:ASP:HB3	2.42	0.49
45:DB:23:VAL:O	45:DB:27:GLU:OE1	2.30	0.49
45:DB:86:ARG:HH12	45:EB:278:SER:HA	1.77	0.49
45:DD:173:PRO:CG	45:DD:380:ARG:HD3	2.42	0.49
44:DE:422:ARG:NH1	44:DE:426:ALA:HB2	2.22	0.49
45:DF:6:HIS:NE2	45:DF:8:GLN:HB2	2.27	0.49
45:DF:66:MET:HE1	45:DF:148:GLY:CA	2.41	0.49
45:DH:186:THR:HG23	45:DH:415:MET:HE1	1.93	0.49
45:DH:311:LEU:HD22	45:DH:342:VAL:HG11	1.93	0.49
45:DL:42:LEU:HA	45:DL:45:GLU:HG3	1.94	0.49
45:DL:135:ILE:HG13	45:DL:152:ILE:CD1	2.41	0.49
45:DL:210:ILE:HD11	45:DL:300:MET:HA	1.94	0.49
44:DM:105:ARG:HG2	44:DM:411:GLU:OE1	2.13	0.49
44:DM:190:SER:O	44:DM:194:LEU:HG	2.12	0.49
44:DM:240:ALA:HA	44:DM:243:ARG:NE	2.27	0.49
44:DM:291:ILE:HD13	44:DM:373:ARG:HG2	1.94	0.49
45:DN:173:PRO:CG	45:DN:380:ARG:HD3	2.37	0.49
45:DN:421:GLU:O	45:DN:424:GLN:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:70:LEU:HD12	44:EA:145:THR:OG1	2.13	0.49
44:EA:70:LEU:HD13	44:EA:110:ILE:HD12	1.94	0.49
44:EA:273:ALA:HB3	44:EA:295:ALA:HA	1.94	0.49
44:EA:326:LYS:HD2	44:EA:327:ASP:N	2.26	0.49
45:EB:139:LEU:HD23	45:EB:185:ALA:O	2.12	0.49
45:ED:290:THR:HA	45:ED:293:MET:HE2	1.94	0.49
44:EE:91:GLN:CG	44:EE:92:LEU:HD12	2.40	0.49
44:EE:195:LEU:HD12	44:EE:266:HIS:HE2	1.75	0.49
45:EF:3:GLU:CG	45:EF:127:CYS:HB2	2.42	0.49
45:EF:238:CYS:HB2	45:EF:318:ARG:CZ	2.41	0.49
44:EG:23:LEU:HD21	44:EG:233:GLN:OE1	2.12	0.49
44:EG:184:PRO:O	44:EG:187:SER:HB2	2.11	0.49
44:EG:231:ILE:O	44:EG:235:ILE:HD12	2.12	0.49
44:EG:319:TYR:O	44:EG:355:ILE:HA	2.12	0.49
44:EI:214:ARG:HG2	44:EI:214:ARG:NH1	2.27	0.49
44:EI:320:ARG:HB3	44:EI:356:ASN:HB3	1.94	0.49
45:EJ:287:PRO:HA	45:EJ:329:GLN:OE1	2.11	0.49
44:EK:32:PRO:HA	44:EK:83:TYR:HE1	1.76	0.49
44:EK:81:GLY:O	44:EK:84:ARG:HG2	2.12	0.49
44:EK:185:TYR:OH	44:EK:398:MET:HG2	2.12	0.49
45:EL:315:ALA:C	45:EL:316:LEU:HD12	2.33	0.49
44:EM:119:LEU:HA	44:EM:122:ILE:HG12	1.94	0.49
44:EM:141:VAL:HG12	44:EM:171:ILE:O	2.12	0.49
44:EM:390:ARG:HG3	44:EM:391:LEU:N	2.27	0.49
45:EN:2:ARG:N	45:EN:129:CYS:HB3	2.25	0.49
45:EN:2:ARG:HG2	45:EN:2:ARG:O	2.12	0.49
44:FA:356:ASN:OD1	44:FA:357:TYR:N	2.45	0.49
44:FC:172:TYR:HB3	44:FC:173:PRO:CD	2.42	0.49
44:FC:238:LEU:HD21	44:FC:255:PHE:HE2	1.76	0.49
44:FC:313:MET:HA	44:FC:344:VAL:HG12	1.93	0.49
45:FD:8:GLN:HG3	45:FD:14:ASN:OD1	2.12	0.49
45:FH:286:VAL:HB	45:FH:287:PRO:HD3	1.93	0.49
45:FH:310:TYR:CD1	45:FH:371:SER:HB2	2.47	0.49
45:FJ:87:PRO:HD2	45:GJ:281:TYR:CD2	2.47	0.49
45:FJ:309:ARG:H	45:FJ:372:THR:HG21	1.77	0.49
45:FL:112:LEU:HD23	45:FL:112:LEU:O	2.12	0.49
45:FN:273:LEU:H	45:FN:292:GLN:NE2	2.11	0.49
45:FN:296:ALA:HB2	45:FN:306:ARG:HE	1.77	0.49
45:FN:318:ARG:HH11	45:FN:358:PRO:CG	2.19	0.49
44:GA:11:GLN:NE2	45:GB:247:ASN:OD1	2.45	0.49
45:GB:187:LEU:O	45:GB:190:HIS:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:234:SER:HA	45:GB:237:THR:CG2	2.42	0.49
44:GE:212:ILE:CD1	44:GE:300:ASN:HA	2.42	0.49
45:GF:152:ILE:CG2	45:GF:156:ARG:HH12	2.24	0.49
44:GI:195:LEU:HB3	44:GI:196:GLU:OE2	2.12	0.49
45:GJ:62:ARG:O	45:GJ:62:ARG:HG3	2.12	0.49
45:GJ:159:TYR:HB3	45:GJ:162:ARG:CG	2.43	0.49
45:GJ:334:GLN:O	45:GJ:334:GLN:HG2	2.11	0.49
44:GK:11:GLN:H	44:GK:11:GLN:CD	2.15	0.49
44:GK:287:SER:O	44:GK:291:ILE:HG23	2.12	0.49
44:GK:319:TYR:CZ	44:GK:328:VAL:HG22	2.48	0.49
44:GM:4:VAL:CG1	44:GM:52:PHE:HE1	2.25	0.49
44:GM:19:ALA:HA	44:GM:22:GLU:OE1	2.11	0.49
45:GN:385:PHE:CD2	45:GN:386:THR:HG23	2.47	0.49
44:HA:284:GLU:O	44:HA:286:LEU:HD23	2.12	0.49
44:HA:384:ILE:HG13	44:HA:387:VAL:HG22	1.94	0.49
44:HE:273:ALA:HA	44:HE:275:ILE:CD1	2.35	0.49
44:HE:363:VAL:CG2	44:HE:364:PRO:HD2	2.42	0.49
44:HG:372:MET:O	44:HG:373:ARG:HD3	2.12	0.49
44:HG:384:ILE:O	44:HG:387:VAL:HG22	2.13	0.49
45:HH:200:MET:SD	45:HH:268:ILE:HG21	2.51	0.49
44:HI:1:MET:CE	45:HL:94:GLN:HE22	2.25	0.49
44:HI:179:THR:HG21	46:HI:501:GTP:HO2'	1.77	0.49
44:HI:322:ASP:OD1	44:HI:373:ARG:HD2	2.13	0.49
45:HJ:15:GLN:OE1	45:HJ:15:GLN:HA	2.13	0.49
44:HK:296:PHE:CE2	44:HK:335:ILE:HG21	2.44	0.49
44:HM:239:THR:C	44:HM:242:LEU:HD23	2.31	0.49
44:IA:115:VAL:HG23	44:IA:153:LEU:CD2	2.42	0.49
44:IA:166:LYS:C	44:IA:167:LEU:HD12	2.33	0.49
44:IA:352:LYS:CE	45:ID:178:THR:HG23	2.42	0.49
45:IB:269:GLY:HA3	45:IB:299:MET:HE1	1.93	0.49
45:IB:372:THR:HG21	45:IB:426:GLN:CB	2.42	0.49
45:ID:192:LEU:O	45:ID:196:ALA:N	2.28	0.49
45:ID:198:GLU:HG2	45:ID:266:PHE:CE2	2.33	0.49
45:ID:314:SER:OG	45:ID:350:LYS:HB3	2.12	0.49
44:IE:23:LEU:HD11	44:IE:233:GLN:OE1	2.11	0.49
44:IE:54:SER:HB3	44:IE:64:ARG:HH21	1.77	0.49
44:IE:93:ILE:HD12	44:IE:93:ILE:H	1.77	0.49
45:IF:113:ILE:CA	45:IF:116:VAL:HG12	2.39	0.49
45:IF:113:ILE:HD12	45:IF:150:LEU:HD22	1.94	0.49
45:IF:152:ILE:HD12	45:IF:164:MET:CE	2.42	0.49
45:IF:313:ALA:HB1	45:IF:367:PHE:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:48:ASN:OD1	45:IH:48:ASN:O	2.29	0.49
45:IH:266:PHE:CD1	45:IH:370:ASN:HB2	2.47	0.49
45:IJ:178:THR:O	45:IJ:181:GLU:N	2.43	0.49
45:IJ:248:SER:HA	45:IJ:252:LYS:HD2	1.93	0.49
45:IJ:275:SER:OG	45:IJ:278:SER:HB3	2.13	0.49
45:IN:7:ILE:HB	45:IN:135:ILE:HD12	1.95	0.49
45:IN:248:SER:OG	45:IN:253:LEU:HD12	2.11	0.49
44:JA:181:VAL:H	45:JB:256:ASN:HD21	1.60	0.49
45:JB:22:GLU:O	45:JB:25:SER:HB2	2.11	0.49
45:JB:270:PHE:HD2	45:JB:273:LEU:HD21	1.77	0.49
45:JB:310:TYR:HD1	45:JB:371:SER:CB	2.24	0.49
44:JC:258:ASN:OD1	44:JC:259:LEU:HD22	2.12	0.49
44:JC:278:ALA:HA	44:JC:369:ALA:HB2	1.94	0.49
45:JF:87:PRO:HD3	45:KF:281:TYR:HD2	1.77	0.49
45:JF:130:LEU:HB3	45:JF:162:ARG:HD2	1.93	0.49
45:JF:345:ILE:O	45:JF:345:ILE:HG23	2.12	0.49
44:JG:34:GLY:O	44:JG:60:LYS:HA	2.11	0.49
45:JH:21:TRP:CZ3	45:JH:51:TYR:HE1	2.30	0.49
44:JI:224:TYR:HE2	45:JJ:246:LEU:HD11	1.77	0.49
44:JI:238:LEU:HA	44:JI:318:MET:HE1	1.93	0.49
45:JJ:86:ARG:HA	45:KJ:281:TYR:HD2	1.77	0.49
44:JK:325:PRO:HG2	45:JN:222:TYR:CZ	2.47	0.49
44:JM:331:SER:O	44:JM:334:THR:HB	2.12	0.49
45:JN:4:ILE:HD11	45:JN:50:TYR:CE1	2.47	0.49
45:JN:411:ALA:O	45:JN:414:ASN:N	2.42	0.49
44:KA:195:LEU:O	44:KA:266:HIS:NE2	2.38	0.49
45:KB:135:ILE:HG22	45:KB:137:HIS:ND1	2.28	0.49
44:KC:308:ARG:HH21	44:NC:282:TYR:HB3	1.78	0.49
45:KD:175:VAL:O	45:KD:175:VAL:HG23	2.12	0.49
44:KE:138:PHE:HE1	44:KE:169:PHE:CD2	2.31	0.49
45:KF:67:ASP:HB3	45:KF:73:MET:HE2	1.94	0.49
44:KG:325:PRO:O	44:KG:328:VAL:HG22	2.12	0.49
44:KG:406:HIS:CD2	45:KH:260:PHE:HA	2.47	0.49
44:KI:264:ARG:CZ	44:KI:264:ARG:HB3	2.42	0.49
45:KL:183:TYR:O	45:KL:186:THR:HG22	2.12	0.49
45:KL:367:PHE:CZ	45:KL:369:GLY:HA3	2.48	0.49
45:KN:68:LEU:HD21	45:KN:147:MET:HE2	1.93	0.49
44:LC:268:MET:HA	44:LC:384:ILE:CD1	2.42	0.49
45:LD:256:ASN:C	45:LD:257:LEU:HD22	2.32	0.49
45:LD:374:ILE:HG13	45:LD:377:MET:HE1	1.94	0.49
45:LH:135:ILE:O	45:LH:166:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:174:LYS:HD3	45:LJ:174:LYS:N	2.27	0.49
45:LJ:325:GLU:HA	45:LJ:328:GLU:HG3	1.93	0.49
45:LJ:330:MET:SD	45:LJ:349:ILE:HG21	2.52	0.49
45:LJ:388:MET:O	45:LJ:388:MET:HG2	2.12	0.49
45:LL:165:GLU:HG2	45:LL:198:GLU:HB2	1.94	0.49
44:LM:100:ALA:O	45:LN:255:VAL:HG21	2.11	0.49
45:LN:8:GLN:HE21	45:LN:65:LEU:HG	1.77	0.49
45:LN:152:ILE:O	45:LN:155:VAL:HG22	2.10	0.49
45:LN:262:ARG:HA	45:LN:264:HIS:CD2	2.48	0.49
45:MB:156:ARG:NH1	45:MB:162:ARG:O	2.46	0.49
45:MB:245:GLN:C	45:MB:246:LEU:HD23	2.32	0.49
45:MD:371:SER:O	45:MD:422:TYR:OH	2.30	0.49
45:MF:12:CYS:SG	45:MF:138:SER:HB2	2.52	0.49
45:MF:417:ASP:OD1	45:MF:421:GLU:HG3	2.12	0.49
44:MG:105:ARG:N	44:MG:411:GLU:HG2	2.28	0.49
44:MG:172:TYR:HB3	44:MG:173:PRO:HD2	1.94	0.49
44:MI:318:MET:HE1	44:MI:354:GLY:HA3	1.95	0.49
44:MK:99:ALA:CB	44:MK:145:THR:HB	2.41	0.49
44:MK:332:ILE:HD12	44:MK:351:PHE:CD2	2.47	0.49
45:NB:73:MET:O	45:NB:76:VAL:HG12	2.12	0.49
44:NC:72:PRO:O	44:NC:75:ILE:N	2.42	0.49
44:NE:102:ASN:OD1	44:NE:104:ALA:HB3	2.11	0.49
44:NE:137:VAL:HG21	44:NE:154:LEU:HD21	1.92	0.49
44:NE:354:GLY:C	44:NE:355:ILE:HD12	2.33	0.49
44:NG:88:HIS:HB3	44:NG:91:GLN:CD	2.32	0.49
44:NG:178:SER:CB	45:NH:347:ASN:HB3	2.41	0.49
45:NH:22:GLU:HG2	45:NH:81:PHE:CB	2.43	0.49
45:NH:150:LEU:HA	45:NH:191:GLN:NE2	2.22	0.49
45:NH:360:GLY:O	45:NH:361:LEU:HD23	2.12	0.49
44:NI:73:THR:HA	45:NJ:46:ARG:HH21	1.77	0.49
44:NI:231:ILE:O	44:NI:234:VAL:N	2.45	0.49
45:NJ:68:LEU:HD13	45:NJ:147:MET:CE	2.42	0.49
45:NJ:293:MET:HE2	45:NJ:367:PHE:HB2	1.94	0.49
44:NK:185:TYR:HA	44:NK:395:PHE:HE1	1.75	0.49
45:NL:170:VAL:CG2	45:NL:171:PRO:HD2	2.42	0.49
44:NM:306:ASP:OD2	44:NM:308:ARG:HB2	2.12	0.49
45:NN:103:LYS:HA	45:NN:107:THR:HG22	1.94	0.49
45:NN:310:TYR:HE2	45:NN:340:TYR:HB3	1.77	0.49
44:OA:208:ALA:HB3	44:OA:302:MET:O	2.13	0.49
44:OA:272:TYR:CD1	44:OA:376:CYS:HB2	2.41	0.49
44:OA:288:VAL:HA	44:OA:291:ILE:CG1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:143:THR:HG23	48:OB:501:GDP:O1B	2.12	0.49
45:OB:245:GLN:HB2	45:OB:353:ILE:HB	1.93	0.49
44:OC:105:ARG:HG2	44:OC:411:GLU:CD	2.33	0.49
45:OD:108:GLU:O	45:OD:111:GLU:N	2.45	0.49
44:OE:203:MET:HE3	44:OE:205:ASP:HB3	1.95	0.49
44:OG:76:ASP:O	44:OG:80:THR:HG23	2.12	0.49
44:OG:208:ALA:HB3	44:OG:302:MET:CE	2.42	0.49
45:OH:23:VAL:CG1	45:OH:230:SER:HB3	2.30	0.49
44:OI:98:ASP:OD1	44:OI:99:ALA:N	2.42	0.49
44:OI:241:SER:CB	44:OI:250:VAL:H	2.23	0.49
45:OJ:2:ARG:HA	45:OJ:131:GLN:HB2	1.94	0.49
45:OJ:6:HIS:HE1	45:OJ:8:GLN:OE1	1.95	0.49
44:OM:88:HIS:O	44:OM:92:LEU:HD13	2.12	0.49
44:OM:111:GLY:O	44:OM:114:ILE:HG22	2.12	0.49
44:OM:425:LEU:O	44:OM:428:LEU:HB3	2.13	0.49
45:ON:64:ILE:HG13	45:ON:89:ASN:HB3	1.94	0.49
44:PA:212:ILE:CG2	44:PA:275:ILE:HD13	2.42	0.49
45:PB:258:ILE:HG13	45:PB:266:PHE:CZ	2.44	0.49
44:PC:101:ASN:HA	44:PC:144:GLY:H	1.77	0.49
44:PC:257:THR:HG22	45:PF:397:TRP:CG	2.47	0.49
44:PC:387:VAL:HG12	44:PC:390:ARG:NH1	2.27	0.49
45:PD:61:PRO:CG	45:PD:84:LEU:HB3	2.42	0.49
45:PD:87:PRO:HA	45:PD:90:PHE:HD1	1.77	0.49
44:PE:301:MET:HG2	44:PE:303:ALA:H	1.77	0.49
45:PF:357:PRO:HB2	45:PF:358:PRO:CD	2.42	0.49
45:PH:217:LEU:HD11	45:PH:220:PRO:CB	2.40	0.49
44:PI:63:PRO:HG2	44:PI:86:LEU:HG	1.94	0.49
44:PI:93:ILE:HG12	44:PI:117:LEU:CD2	2.42	0.49
44:PK:11:GLN:H	46:PK:501:GTP:PB	2.36	0.49
44:PK:71:GLU:CD	44:PK:73:THR:HG23	2.31	0.49
44:PK:263:PRO:HD3	45:PN:396:HIS:CE1	2.47	0.49
44:PK:265:ILE:HD11	44:PK:432:TYR:CA	2.39	0.49
45:PL:183:TYR:HD1	45:PL:385:PHE:CE1	2.30	0.49
45:PL:388:MET:SD	45:PL:393:ALA:HB3	2.52	0.49
44:PM:101:ASN:HA	44:PM:144:GLY:CA	2.43	0.49
45:QB:156:ARG:NH1	45:QB:160:PRO:HA	2.27	0.49
45:QB:187:LEU:HD11	45:QB:408:PHE:CE1	2.47	0.49
44:QC:224:TYR:HA	44:QC:227:LEU:HD12	1.94	0.49
44:QC:226:ASN:O	44:QC:230:LEU:HD23	2.12	0.49
45:QD:271:ALA:HB1	45:QD:292:GLN:CD	2.33	0.49
44:QE:358:GLN:NE2	44:QE:359:PRO:HD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:259:PRO:HA	44:QG:404:PHE:CE1	2.47	0.49
44:QG:242:LEU:HD11	44:QG:252:ILE:N	2.25	0.49
44:QG:244:PHE:HB2	44:QG:356:ASN:HD21	1.75	0.49
44:QG:346:TRP:HB3	45:QH:391:ARG:CG	2.42	0.49
44:QI:66:VAL:HG21	44:QI:122:ILE:HD11	1.94	0.49
44:QI:131:GLY:O	44:QI:133:GLN:HG2	2.12	0.49
44:QK:188:ILE:HD12	44:QK:425:LEU:HD11	1.93	0.49
45:QL:243:PRO:O	45:QL:355:ASP:HB2	2.12	0.49
45:RB:114:ASP:OD1	45:RB:115:SER:N	2.45	0.49
45:RB:179:VAL:O	45:RB:182:PRO:HD2	2.12	0.49
44:RE:71:GLU:OE1	44:RE:73:THR:HB	2.11	0.49
44:RE:172:TYR:HD2	44:RE:203:MET:CE	2.24	0.49
44:RE:174:SER:HB3	44:RE:207:GLU:HB2	1.94	0.49
44:RE:273:ALA:O	44:RE:375:VAL:HG12	2.12	0.49
45:RF:164:MET:H	45:RF:197:ASP:HB2	1.76	0.49
45:RF:221:THR:HG22	45:RF:224:ASP:CG	2.33	0.49
44:RG:16:VAL:HG12	44:RG:228:ASN:HD22	1.77	0.49
45:RH:244:GLY:HA2	45:RH:355:ASP:CG	2.31	0.49
44:RI:102:ASN:HD21	44:RI:411:GLU:HG3	1.76	0.49
45:RJ:109:GLY:HA3	45:RJ:147:MET:HE1	1.94	0.49
45:RJ:217:LEU:HD12	45:RJ:217:LEU:O	2.12	0.49
44:RK:87:PHE:HB3	44:RK:92:LEU:HD11	1.93	0.49
44:RK:174:SER:OG	44:RK:207:GLU:HB2	2.12	0.49
45:RN:381:VAL:O	45:RN:384:GLN:N	2.45	0.49
44:SA:234:VAL:HG13	44:SA:376:CYS:SG	2.52	0.49
45:SB:325:GLU:HG3	44:SC:221:ARG:HD2	1.94	0.49
44:SC:389:SER:HA	44:SC:429:GLU:OE2	2.12	0.49
44:SC:426:ALA:O	44:SC:430:LYS:N	2.30	0.49
45:SD:318:ARG:NH1	45:SD:358:PRO:HG3	2.22	0.49
44:SE:55:GLU:C	44:TE:285:GLN:HE21	2.14	0.49
44:SE:405:VAL:O	44:SE:408:TYR:N	2.32	0.49
45:SF:86:ARG:NH1	45:TF:278:SER:OG	2.45	0.49
44:SG:210:TYR:CE1	44:SG:227:LEU:HD11	2.47	0.49
44:SG:257:THR:HA	45:SH:397:TRP:HH2	1.75	0.49
44:SG:269:LEU:HB2	44:SG:303:ALA:HB3	1.93	0.49
45:SH:214:THR:HG21	45:SH:273:LEU:O	2.12	0.49
44:SI:21:TRP:O	44:SI:25:CYS:N	2.45	0.49
45:SJ:14:ASN:HD21	45:SJ:72:THR:HB	1.76	0.49
45:SJ:67:ASP:HB3	45:SJ:73:MET:CE	2.42	0.49
45:SJ:175:VAL:CG1	45:SJ:205:GLU:HA	2.43	0.49
44:SK:106:GLY:O	44:SK:148:GLY:HA3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SL:4:ILE:HG23	45:SL:131:GLN:HB3	1.93	0.49
44:SM:229:ARG:HD2	44:SM:363:VAL:HG11	1.94	0.49
45:SN:416:ASN:O	45:SN:419:VAL:HB	2.11	0.49
44:TA:49:PHE:HB2	44:TA:53:PHE:HB2	1.93	0.49
44:TA:258:ASN:ND2	45:TB:178:THR:HG23	2.19	0.49
45:TB:215:LEU:HA	45:TB:275:SER:CB	2.42	0.49
45:TB:315:ALA:O	45:TB:351:SER:HA	2.11	0.49
45:TD:319:GLY:HA3	45:TD:363:MET:SD	2.52	0.49
44:TG:135:PHE:C	44:TG:136:LEU:HD22	2.33	0.49
44:TG:242:LEU:CD1	44:TG:252:ILE:HD11	2.42	0.49
44:TG:319:TYR:CE2	44:TG:328:VAL:HG22	2.47	0.49
45:TH:139:LEU:HD23	45:TH:188:SER:OG	2.12	0.49
45:TH:170:VAL:HG22	45:TH:171:PRO:HD2	1.94	0.49
45:TJ:207:LEU:HD23	45:TJ:210:ILE:HD12	1.93	0.49
44:TK:55:GLU:HG3	44:TK:57:GLY:H	1.77	0.49
44:TK:98:ASP:OD1	44:TK:99:ALA:N	2.45	0.49
44:TK:102:ASN:CB	44:TK:105:ARG:HG3	2.42	0.49
45:TL:66:MET:CE	45:TL:147:MET:HB3	2.42	0.49
45:TL:329:GLN:O	45:TL:333:VAL:HG23	2.11	0.49
45:TN:288:GLU:O	45:TN:291:GLN:NE2	2.45	0.49
44:UA:31:GLN:NE2	44:UA:35:GLN:HB2	2.27	0.49
45:UD:49:VAL:HG12	45:UD:50:TYR:CD2	2.47	0.49
44:UE:66:VAL:HG11	44:UE:122:ILE:HD11	1.94	0.49
44:UE:203:MET:CB	44:UE:303:ALA:HB2	2.42	0.49
44:UE:320:ARG:CZ	44:UE:360:PRO:HA	2.42	0.49
44:UE:408:TYR:HB3	44:UE:413:MET:CE	2.42	0.49
44:UG:18:ASN:O	44:UG:22:GLU:OE1	2.30	0.49
45:UH:22:GLU:HA	45:UH:22:GLU:OE1	2.12	0.49
45:UH:49:VAL:HG11	45:UH:240:LEU:HD22	1.95	0.49
45:UH:97:ALA:HB2	45:UH:143:THR:HB	1.94	0.49
45:UH:324:LYS:HG3	44:UI:210:TYR:CE1	2.47	0.49
45:UH:345:ILE:O	45:UH:345:ILE:HG23	2.12	0.49
44:UI:208:ALA:O	44:UI:212:ILE:N	2.39	0.49
45:UL:32:PRO:HG3	45:UL:81:PHE:CZ	2.47	0.49
45:UL:38:GLY:HA3	45:UL:43:GLN:NE2	2.27	0.49
45:UL:170:VAL:HG23	45:UL:171:PRO:HD2	1.95	0.49
45:UL:268:ILE:HA	45:UL:367:PHE:O	2.11	0.49
45:UL:323:THR:HG21	44:UM:224:TYR:CZ	2.47	0.49
44:UM:89:PRO:HG3	44:VK:280:LYS:HD2	1.94	0.49
44:UM:213:CYS:CA	44:UM:217:LEU:HB2	2.42	0.49
44:VA:215:ARG:CZ	44:VA:299:ALA:HB1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:385:ALA:O	44:VC:389:SER:N	2.45	0.49
45:VD:264:HIS:C	45:VD:265:PHE:HD1	2.16	0.49
45:VD:358:PRO:HG2	45:VD:364:ALA:HB3	1.94	0.49
45:VD:372:THR:O	45:VD:375:GLN:HG2	2.12	0.49
44:VE:98:ASP:OD1	44:VE:99:ALA:N	2.45	0.49
44:VG:2:ARG:HB2	44:VG:133:GLN:HG2	1.93	0.49
44:VG:305:CYS:SG	44:VG:384:ILE:HA	2.52	0.49
45:VH:101:TRP:CE3	45:VH:187:LEU:HD13	2.47	0.49
45:VH:130:LEU:CG	45:VH:162:ARG:HD2	2.42	0.49
44:VI:2:ARG:H	44:VI:2:ARG:HD3	1.76	0.49
44:VM:79:ARG:O	44:VM:84:ARG:HB2	2.11	0.49
44:VM:81:GLY:O	44:VM:84:ARG:HG2	2.12	0.49
44:WA:6:SER:OG	44:WA:65:ALA:HA	2.12	0.49
45:WB:257:LEU:HB3	45:WB:266:PHE:CZ	2.47	0.49
45:WB:309:ARG:HA	45:WB:340:TYR:O	2.12	0.49
45:WD:216:LYS:HB2	45:WD:275:SER:CB	2.42	0.49
44:WE:132:LEU:CD2	44:WE:164:LYS:HE2	2.42	0.49
45:WF:112:LEU:O	45:WF:112:LEU:HD23	2.12	0.49
44:WG:15:GLN:HE22	45:WH:245:GLN:CA	2.20	0.49
44:WG:174:SER:HB3	44:WG:207:GLU:HB2	1.94	0.49
44:WI:165:SER:C	44:WI:166:LYS:HD3	2.32	0.49
44:WI:387:VAL:HA	44:WI:390:ARG:HG2	1.92	0.49
45:WJ:15:GLN:O	45:WJ:18:ALA:HB3	2.12	0.49
45:WJ:317:PHE:CB	45:WJ:321:MET:HE1	2.40	0.49
44:WK:23:LEU:HD21	44:WK:236:SER:CB	2.39	0.49
44:WK:154:LEU:HA	44:WK:157:LEU:HD12	1.94	0.49
45:WN:248:SER:HB2	45:WN:253:LEU:HD11	1.94	0.49
1:6H:286:GLU:CD	45:FH:227:HIS:NE2	2.24	0.49
3:0B:201:ALA:HB2	44:KI:282:TYR:CE1	2.47	0.49
3:0B:314:VAL:O	44:KI:45:GLY:HA3	2.12	0.49
21:1K:162:GLN:NE2	44:GC:369:ALA:HB1	2.26	0.49
21:1K:165:GLN:HE22	44:GC:362:VAL:HG21	1.75	0.49
10:1N:258:THR:HG21	45:LJ:276:ARG:HH12	1.78	0.49
11:1Q:19:SER:HA	45:WD:126:GLY:O	2.11	0.49
2:2A:36:ARG:HE	45:MJ:243:PRO:HB2	1.76	0.49
10:2N:247:GLN:HA	45:KB:74:ASP:CG	2.32	0.49
26:2R:226:PRO:C	45:BJ:78:ALA:HB1	2.33	0.49
15:2V:228:HIS:HE1	45:VH:77:ARG:HB2	1.75	0.49
32:3I:272:ARG:HH22	45:FJ:91:VAL:HG12	1.75	0.49
13:3T:126:LYS:HB3	44:AK:339:ARG:HE	1.77	0.49
15:3V:82:THR:HG21	45:LB:402:GLY:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4R:12:LEU:CD1	45:LF:361:LEU:HG	2.42	0.49
37:5C:76:ILE:CG2	45:NJ:40:SER:HA	2.42	0.49
37:5C:126:ILE:HA	45:NL:276:ARG:HH22	1.78	0.49
38:5G:44:ARG:HG2	44:NG:57:GLY:HA3	1.94	0.49
39:5J:39:PHE:O	39:5J:43:PRO:HD2	2.12	0.49
35:6R:13:PRO:HA	45:LN:227:HIS:HD2	1.72	0.49
35:6R:26:HIS:CE1	44:LK:244:PHE:CE1	3.00	0.49
35:6R:319:PRO:HB3	45:CN:227:HIS:CG	2.45	0.49
35:7R:72:ALA:HB3	35:7R:74:ILE:HD12	1.94	0.49
35:7R:106:ASN:HB3	35:7R:109:GLU:O	2.13	0.49
44:AA:206:ASN:O	44:AA:209:ILE:HG22	2.12	0.49
45:AB:377:MET:CA	45:AB:380:ARG:HG2	2.41	0.49
44:AC:275:ILE:HG23	44:AC:368:LEU:CD1	2.41	0.49
45:AD:178:THR:HB	45:AD:181:GLU:CG	2.23	0.49
45:AD:320:ARG:HH22	45:AD:357:PRO:HG3	1.77	0.49
45:AF:187:LEU:HD21	45:AF:408:PHE:CD1	2.47	0.49
44:AG:172:TYR:HB3	44:AG:173:PRO:HD2	1.93	0.49
44:AG:195:LEU:O	44:AG:195:LEU:HD23	2.12	0.49
45:AH:342:VAL:HG13	45:AH:345:ILE:CG2	2.42	0.49
44:AI:102:ASN:ND2	44:AI:407:TRP:O	2.39	0.49
44:AK:188:ILE:HG23	44:AK:425:LEU:CD1	2.38	0.49
45:AL:167:PHE:HE2	45:AL:200:MET:HE2	1.78	0.49
44:AM:120:ASP:O	44:AM:123:ARG:HB3	2.12	0.49
44:BC:36:MET:SD	44:BC:38:SER:HB3	2.52	0.49
44:BC:62:VAL:HG13	44:BC:62:VAL:O	2.12	0.49
45:BD:174:LYS:HD2	45:BD:205:GLU:OE1	2.12	0.49
45:BD:221:THR:HG23	45:BD:224:ASP:H	1.76	0.49
44:BE:131:GLY:O	44:BE:133:GLN:HG2	2.11	0.49
44:BG:257:THR:HG22	45:BJ:397:TRP:CZ2	2.47	0.49
44:BI:181:VAL:HG12	45:BJ:256:ASN:OD1	2.12	0.49
44:BK:145:THR:HG22	46:BK:501:GTP:PG	2.52	0.49
44:BK:387:VAL:O	44:BK:390:ARG:HG2	2.12	0.49
45:BL:6:HIS:O	45:BL:63:ALA:HA	2.12	0.49
44:BM:188:ILE:HD11	44:BM:395:PHE:HB2	1.93	0.49
45:BN:134:GLN:HA	45:BN:165:GLU:O	2.12	0.49
44:CA:234:VAL:O	44:CA:238:LEU:N	2.44	0.49
44:CC:258:ASN:OD1	45:CD:179:VAL:HG13	2.11	0.49
44:CC:270:SER:O	44:CC:302:MET:HB3	2.12	0.49
45:CD:134:GLN:HA	45:CD:165:GLU:O	2.12	0.49
45:CD:350:LYS:HG3	44:CE:179:THR:O	2.12	0.49
44:CE:35:GLN:HE22	44:CE:59:GLY:CA	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:328:VAL:HA	44:CE:331:SER:OG	2.12	0.49
44:CG:4:VAL:HG12	44:CG:52:PHE:CE1	2.48	0.49
44:CG:100:ALA:O	44:CG:101:ASN:HB2	2.12	0.49
45:CJ:116:VAL:O	45:CJ:119:VAL:HG12	2.12	0.49
44:CK:3:GLU:O	44:CK:133:GLN:N	2.20	0.49
44:CK:276:ILE:CG1	44:CK:280:LYS:HG3	2.43	0.49
45:CL:99:ASN:CA	45:CL:142:GLY:HA3	2.42	0.49
45:CL:110:ALA:HA	45:CL:113:ILE:CG2	2.42	0.49
45:CL:250:LEU:O	45:CL:254:ALA:N	2.37	0.49
44:CM:88:HIS:HB3	44:CM:91:GLN:HG2	1.94	0.49
45:CN:69:GLU:OE2	45:CN:72:THR:HB	2.12	0.49
45:CN:211:CYS:HB3	45:CN:217:LEU:CD2	2.43	0.49
45:CN:265:PHE:CB	45:CN:374:ILE:HD13	2.42	0.49
44:DA:7:ILE:HB	44:DA:137:VAL:HG23	1.92	0.49
44:DA:51:THR:O	44:DA:64:ARG:NH2	2.45	0.49
44:DA:350:GLY:HA2	45:DB:179:VAL:CG1	2.42	0.49
45:DB:86:ARG:NH1	45:EB:278:SER:HA	2.27	0.49
44:DC:67:PHE:CD2	44:DC:92:LEU:HG	2.47	0.49
44:DC:181:VAL:O	44:DC:184:PRO:HD2	2.12	0.49
44:DC:390:ARG:HG3	44:DC:391:LEU:N	2.27	0.49
45:DD:203:ASP:OD2	45:DD:301:CYS:HB3	2.12	0.49
44:DE:35:GLN:NE2	44:DE:59:GLY:HA2	2.26	0.49
45:DF:86:ARG:CD	45:EF:281:TYR:HB2	2.33	0.49
45:DF:169:VAL:O	45:DF:169:VAL:HG23	2.12	0.49
44:DG:348:PRO:HB2	45:DH:384:GLN:NE2	2.27	0.49
45:DH:31:ASP:HB3	45:DH:32:PRO:CD	2.41	0.49
44:DI:145:THR:HG22	46:DI:501:GTP:O3B	2.12	0.49
44:DI:394:LYS:O	44:DI:397:LEU:HB2	2.12	0.49
44:DI:431:ASP:O	44:DI:434:GLU:N	2.42	0.49
45:DJ:310:TYR:HB2	45:DJ:341:PHE:CE2	2.47	0.49
44:DM:206:ASN:HB2	44:DM:210:TYR:CZ	2.47	0.49
45:DN:3:GLU:HG2	45:DN:127:CYS:HB2	1.94	0.49
45:DN:180:VAL:HG23	45:DN:183:TYR:CD1	2.47	0.49
45:DN:286:VAL:CG1	45:DN:329:GLN:HG3	2.43	0.49
45:DN:337:ASN:HB3	45:DN:340:TYR:CD2	2.47	0.49
44:EA:70:LEU:HD13	44:EA:110:ILE:CD1	2.43	0.49
44:EA:286:LEU:N	44:EA:290:GLU:OE2	2.43	0.49
45:EB:178:THR:H	45:EB:181:GLU:CD	2.14	0.49
45:EB:310:TYR:HB2	45:EB:341:PHE:CD2	2.47	0.49
45:EB:425:TYR:O	45:EB:428:ALA:HB3	2.12	0.49
44:EC:55:GLU:HG3	44:EC:57:GLY:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:262:TYR:OH	45:ED:391:ARG:O	2.28	0.49
44:EC:280:LYS:HA	44:EC:283:HIS:CD2	2.39	0.49
44:EE:11:GLN:NE2	44:EE:74:VAL:HG21	2.28	0.49
44:EE:241:SER:O	44:EE:249:ASN:ND2	2.44	0.49
44:EE:291:ILE:HG13	44:EE:292:THR:N	2.27	0.49
44:EE:322:ASP:H	44:EE:373:ARG:NH1	2.10	0.49
45:EF:50:TYR:OH	45:EF:237:THR:HG21	2.11	0.49
45:EF:97:ALA:HB3	45:EF:143:THR:HB	1.92	0.49
45:EF:252:LYS:CG	45:EF:350:LYS:HE2	2.41	0.49
45:EF:341:PHE:HB3	45:EF:348:ASN:ND2	2.27	0.49
44:EG:155:GLU:HG2	44:EG:197:HIS:CD2	2.48	0.49
44:EG:307:PRO:HA	44:EG:383:ALA:HB2	1.94	0.49
45:EJ:289:LEU:HD12	45:EJ:363:MET:CE	2.42	0.49
44:EK:141:VAL:CG1	44:EK:172:TYR:HA	2.43	0.49
45:EL:102:ALA:HA	45:EL:403:MET:HE1	1.94	0.49
45:EL:133:PHE:CD2	45:EL:155:VAL:HG11	2.47	0.49
44:EM:66:VAL:HG23	44:EM:66:VAL:O	2.12	0.49
44:EM:223:THR:HG23	44:EM:225:THR:OG1	2.13	0.49
44:EM:306:ASP:HB3	44:EM:309:HIS:ND1	2.27	0.49
44:FA:138:PHE:CE2	44:FA:235:ILE:HG12	2.48	0.49
44:FA:344:VAL:HG21	44:FA:346:TRP:CE2	2.46	0.49
45:FB:110:ALA:HA	45:FB:113:ILE:HG12	1.93	0.49
45:FD:315:ALA:HB1	45:FD:317:PHE:CE1	2.47	0.49
45:FD:319:GLY:CA	45:FD:363:MET:HE1	2.39	0.49
45:FD:341:PHE:HB3	45:FD:348:ASN:ND2	2.26	0.49
44:FE:265:ILE:O	44:FE:265:ILE:HG23	2.12	0.49
45:FF:105:HIS:CD2	45:FF:150:LEU:HB2	2.47	0.49
45:FF:180:VAL:C	45:FF:182:PRO:HD2	2.33	0.49
44:FG:242:LEU:CD2	44:FG:251:ASP:HA	2.40	0.49
45:FH:245:GLN:OE1	45:FH:245:GLN:HA	2.12	0.49
44:FK:292:THR:HB	44:FK:319:TYR:OH	2.13	0.49
44:FK:306:ASP:OD1	44:FK:308:ARG:N	2.42	0.49
45:FL:241:ARG:C	45:FL:242:PHE:HD1	2.16	0.49
44:FM:7:ILE:HD12	44:FM:66:VAL:CG1	2.43	0.49
44:FM:22:GLU:HA	44:FM:25:CYS:HB2	1.93	0.49
44:FM:56:THR:HG23	44:FM:58:ALA:H	1.78	0.49
44:GA:268:MET:HB2	44:GA:379:SER:O	2.12	0.49
45:GB:101:TRP:CD1	45:GB:184:ASN:HB2	2.46	0.49
45:GB:376:GLU:CG	45:GB:380:ARG:HH21	2.24	0.49
44:GE:97:GLU:CG	44:GE:105:ARG:HH22	2.23	0.49
44:GE:243:ARG:O	44:GE:244:PHE:HD1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:64:ARG:HB2	44:GI:64:ARG:CZ	2.42	0.49
45:GJ:317:PHE:HE2	45:GJ:326:VAL:HG22	1.77	0.49
45:GL:86:ARG:CD	45:HL:281:TYR:HB3	2.43	0.49
44:GM:117:LEU:O	44:GM:120:ASP:N	2.44	0.49
45:GN:46:ARG:NE	45:GN:46:ARG:HA	2.26	0.49
45:GN:269:GLY:O	45:GN:366:THR:HA	2.12	0.49
45:GN:287:PRO:O	45:GN:290:THR:HG22	2.12	0.49
44:HA:70:LEU:HB3	44:HA:97:GLU:O	2.11	0.49
45:HB:36:TYR:CZ	45:HB:44:LEU:HG	2.47	0.49
44:HC:166:LYS:HE2	44:HC:197:HIS:O	2.12	0.49
44:HE:387:VAL:HA	44:HE:390:ARG:HG2	1.93	0.49
44:HG:145:THR:HG22	46:HG:501:GTP:PG	2.53	0.49
44:HG:229:ARG:HG3	44:HG:229:ARG:HH11	1.78	0.49
44:HG:298:PRO:O	44:HG:301:MET:CE	2.60	0.49
45:HH:130:LEU:HD11	45:HH:133:PHE:HE1	1.76	0.49
44:HI:137:VAL:O	44:HI:137:VAL:HG13	2.11	0.49
45:HJ:179:VAL:HG12	45:HJ:179:VAL:O	2.12	0.49
44:HK:223:THR:CB	45:HL:322:SER:HA	2.39	0.49
45:HL:256:ASN:C	45:HL:257:LEU:HD12	2.33	0.49
44:HM:182:VAL:HG22	44:HM:182:VAL:O	2.12	0.49
44:HM:249:ASN:O	44:HM:250:VAL:HG23	2.12	0.49
44:HM:306:ASP:HB3	44:HM:309:HIS:CG	2.47	0.49
44:HM:317:MET:HB3	44:HM:319:TYR:HE1	1.73	0.49
45:HN:139:LEU:HD22	45:HN:145:SER:HB2	1.93	0.49
45:HN:276:ARG:HA	45:HN:279:GLN:HB2	1.95	0.49
45:HN:384:GLN:HB3	45:HN:387:ALA:CB	2.42	0.49
45:IB:97:ALA:HA	45:IB:103:LYS:CE	2.39	0.49
44:IC:119:LEU:HD21	44:IC:156:ARG:HG2	1.94	0.49
44:IC:201:ALA:HB3	44:IC:267:PHE:CD2	2.47	0.49
45:ID:67:ASP:CB	45:ID:73:MET:HE2	2.42	0.49
44:IG:66:VAL:HG13	44:IG:66:VAL:O	2.13	0.49
45:IJ:272:PRO:HG3	45:IJ:289:LEU:HD21	1.94	0.49
45:IJ:286:VAL:HG22	45:IJ:363:MET:HE1	1.93	0.49
45:IL:132:GLY:HA3	45:IL:163:ILE:CG2	2.42	0.49
44:JA:320:ARG:CD	44:JA:360:PRO:HG3	2.39	0.49
45:JB:302:ALA:CB	45:JB:380:ARG:HH22	2.21	0.49
44:JC:349:THR:HG23	45:JF:384:GLN:HE22	1.78	0.49
44:JC:372:MET:HG3	44:JC:373:ARG:HG3	1.93	0.49
45:JD:166:THR:N	45:JD:198:GLU:O	2.45	0.49
44:JG:56:THR:HG21	44:JG:60:LYS:HG3	1.94	0.49
44:JG:188:ILE:HD12	44:JG:425:LEU:HD13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:205:ASP:CG	44:JG:303:ALA:HA	2.33	0.49
45:JJ:296:ALA:CB	45:JJ:306:ARG:HE	2.24	0.49
45:JN:19:LYS:CE	45:JN:227:HIS:HD1	2.21	0.49
45:JN:245:GLN:HB2	45:JN:353:ILE:CB	2.41	0.49
45:KB:289:LEU:HD13	45:KB:365:VAL:CG2	2.41	0.49
45:KB:311:LEU:HD22	45:KB:342:VAL:HG11	1.94	0.49
44:KC:172:TYR:OH	44:KC:191:THR:HG22	2.12	0.49
45:KD:19:LYS:HD2	45:KD:226:ASN:OD1	2.12	0.49
44:KE:339:ARG:H	44:KE:339:ARG:HD3	1.77	0.49
44:KG:181:VAL:O	44:KG:184:PRO:HD2	2.12	0.49
44:KG:239:THR:O	44:KG:239:THR:HG22	2.12	0.49
44:KG:268:MET:CB	44:KG:380:ASN:HA	2.42	0.49
45:KJ:318:ARG:NH1	45:KJ:358:PRO:HG3	2.27	0.49
44:KK:11:GLN:HE22	44:KK:74:VAL:CG1	2.25	0.49
44:KK:37:PRO:HB2	44:KK:39:ASP:OD1	2.13	0.49
44:KK:315:CYS:HA	44:KK:379:SER:HB2	1.95	0.49
45:KL:86:ARG:HD3	45:KL:89:ASN:OD1	2.12	0.49
44:KM:119:LEU:HD11	44:KM:156:ARG:HG2	1.93	0.49
45:KN:62:ARG:HG3	45:KN:123:GLU:OE2	2.12	0.49
45:KN:173:PRO:HD2	45:KN:174:LYS:HZ3	1.77	0.49
45:KN:186:THR:HA	45:KN:189:VAL:CG2	2.41	0.49
44:LA:104:ALA:HB3	44:LA:411:GLU:HB2	1.93	0.49
44:LA:183:GLU:HG2	44:LA:184:PRO:HD3	1.94	0.49
45:LB:358:PRO:CG	45:LB:364:ALA:HB3	2.43	0.49
44:LC:184:PRO:HG2	44:LC:398:MET:HE1	1.94	0.49
44:LC:246:GLY:HA2	44:LC:357:TYR:CE2	2.46	0.49
44:LE:322:ASP:O	44:LE:373:ARG:NH1	2.44	0.49
45:LF:2:ARG:NE	45:LF:240:LEU:HG	2.28	0.49
45:LF:100:ASN:ND2	45:LF:103:LYS:HG3	2.28	0.49
44:LG:274:PRO:HD3	44:LG:374:ALA:HA	1.93	0.49
44:LG:298:PRO:HG2	44:LG:308:ARG:HH21	1.78	0.49
45:LH:47:ILE:HG13	45:LH:47:ILE:O	2.12	0.49
45:LH:330:MET:CE	45:LH:349:ILE:HG21	2.42	0.49
44:LI:5:ILE:HG21	44:LI:122:ILE:CD1	2.43	0.49
45:LJ:61:PRO:CG	45:LJ:84:LEU:HB3	2.41	0.49
45:LJ:146:GLY:O	45:LJ:150:LEU:HD23	2.11	0.49
45:LJ:280:GLN:OE1	45:LJ:281:TYR:HD2	1.95	0.49
45:LL:7:ILE:HG23	45:LL:135:ILE:CD1	2.42	0.49
45:LL:330:MET:O	45:LL:333:VAL:HG12	2.12	0.49
44:LM:223:THR:HG23	44:LM:225:THR:H	1.77	0.49
45:LN:181:GLU:CG	45:LN:182:PRO:HD3	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:272:PRO:CD	45:LN:364:ALA:HA	2.41	0.49
45:LN:348:ASN:O	45:LN:349:ILE:HD13	2.12	0.49
45:LN:396:HIS:O	45:LN:399:THR:OG1	2.20	0.49
44:MC:229:ARG:HH21	44:MC:363:VAL:HG11	1.76	0.49
44:ME:265:ILE:HG23	44:ME:432:TYR:CZ	2.47	0.49
44:MG:1:MET:HG2	44:MG:1:MET:O	2.12	0.49
45:MH:3:GLU:HA	45:MH:49:VAL:HG13	1.94	0.49
45:MH:413:SER:O	45:MH:417:ASP:N	2.37	0.49
44:MI:282:TYR:CZ	44:MI:369:ALA:HB1	2.47	0.49
45:MJ:101:TRP:HZ3	45:MJ:187:LEU:HB3	1.76	0.49
45:MJ:151:LEU:O	45:MJ:155:VAL:HG23	2.11	0.49
44:MM:352:LYS:HD2	44:MM:352:LYS:O	2.11	0.49
44:MM:432:TYR:O	44:MM:435:VAL:HG12	2.12	0.49
45:MN:8:GLN:NE2	45:MN:65:LEU:HG	2.27	0.49
45:MN:135:ILE:CG1	45:MN:164:MET:HE1	2.42	0.49
45:MN:274:THR:HB	45:MN:279:GLN:HA	1.95	0.49
44:NA:183:GLU:N	44:NA:184:PRO:HD2	2.26	0.49
44:NA:250:VAL:CG2	44:NA:352:LYS:HE3	2.39	0.49
45:NB:318:ARG:N	45:NB:364:ALA:O	2.41	0.49
44:NC:105:ARG:N	44:NC:411:GLU:OE1	2.45	0.49
44:NC:230:LEU:CD1	44:NC:275:ILE:HD13	2.42	0.49
44:NE:328:VAL:O	44:NE:332:ILE:HG12	2.12	0.49
45:NF:267:MET:HB3	45:NF:299:MET:CE	2.42	0.49
44:NG:174:SER:OG	44:NG:207:GLU:HG3	2.12	0.49
44:NG:205:ASP:OD2	44:NG:304:LYS:HG3	2.11	0.49
44:NG:224:TYR:CE1	45:NH:323:THR:HG21	2.47	0.49
44:NI:60:LYS:HG3	44:NI:61:HIS:O	2.11	0.49
44:NI:103:PHE:HA	44:NI:144:GLY:HA2	1.95	0.49
44:NI:103:PHE:HE1	44:NI:147:SER:HG	1.60	0.49
45:NJ:40:SER:OG	45:NJ:43:GLN:HG3	2.12	0.49
45:NJ:102:ALA:HB2	45:NJ:403:MET:HE1	1.94	0.49
45:NJ:167:PHE:CE2	45:NJ:233:MET:HG3	2.47	0.49
44:NK:347:CYS:HA	45:NN:388:MET:CE	2.37	0.49
45:NL:3:GLU:OE2	45:NL:127:CYS:HB2	2.11	0.49
45:NL:207:LEU:HB3	45:NL:225:LEU:HG	1.94	0.49
44:NM:189:LEU:HD23	44:NM:421:ALA:CB	2.41	0.49
44:NM:286:LEU:HD22	44:NM:290:GLU:OE2	2.12	0.49
44:NM:301:MET:HE3	44:NM:307:PRO:CD	2.41	0.49
44:OA:408:TYR:HB3	44:OA:413:MET:CG	2.39	0.49
44:OC:102:ASN:OD1	44:OC:104:ALA:HB3	2.12	0.49
45:OD:99:ASN:HD21	45:OD:178:THR:HG21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:175:VAL:O	45:OD:175:VAL:HG23	2.12	0.49
45:OD:189:VAL:O	45:OD:193:VAL:HG12	2.12	0.49
45:OD:285:THR:CG2	45:OD:287:PRO:HD2	2.42	0.49
44:OE:207:GLU:O	44:OE:210:TYR:HB3	2.12	0.49
44:OE:248:LEU:HD11	45:OH:222:TYR:HE2	1.76	0.49
45:OF:22:GLU:O	45:OF:25:SER:N	2.44	0.49
45:OF:131:GLN:HG3	45:OF:162:ARG:HH21	1.77	0.49
45:OH:318:ARG:HB2	45:OH:364:ALA:O	2.13	0.49
44:OI:141:VAL:HG11	44:OI:172:TYR:CD1	2.47	0.49
44:OI:272:TYR:HD2	44:OI:275:ILE:HD11	1.77	0.49
44:OK:221:ARG:NH2	45:OL:324:LYS:HE2	2.27	0.49
44:OM:12:GLY:H	46:OM:501:GTP:PB	2.35	0.49
44:OM:345:ASP:HB2	44:OM:438:GLU:CG	2.42	0.49
44:OM:425:LEU:HD12	44:OM:428:LEU:HD23	1.95	0.49
45:ON:242:PHE:HB3	45:ON:356:ILE:HG13	1.93	0.49
45:PB:287:PRO:O	45:PB:290:THR:HG22	2.12	0.49
44:PC:5:ILE:O	44:PC:135:PHE:HA	2.12	0.49
44:PC:250:VAL:HA	44:PC:254:GLU:OE1	2.12	0.49
45:PD:106:TYR:HE2	45:PD:403:MET:HE2	1.75	0.49
45:PF:238:CYS:HB2	45:PF:318:ARG:NH2	2.27	0.49
45:PF:251:ARG:O	45:PF:254:ALA:HB3	2.12	0.49
45:PF:267:MET:HE3	45:PF:374:ILE:HG22	1.94	0.49
45:PH:342:VAL:HG13	45:PH:345:ILE:HG22	1.94	0.49
44:PI:203:MET:CB	44:PI:303:ALA:HB2	2.43	0.49
44:PI:229:ARG:O	44:PI:232:ALA:HB3	2.12	0.49
44:PI:258:ASN:HD22	44:PI:352:LYS:CD	2.24	0.49
44:PK:414:GLU:O	44:PK:417:GLU:HB2	2.11	0.49
45:PL:282:ARG:HG2	45:PL:283:ALA:N	2.27	0.49
44:PM:118:CYS:SG	44:PM:122:ILE:HG12	2.53	0.49
45:PN:50:TYR:CE2	45:PN:241:ARG:HD3	2.47	0.49
45:PN:69:GLU:OE1	45:PN:71:GLY:N	2.44	0.49
45:PN:217:LEU:HD11	45:PN:220:PRO:CG	2.42	0.49
44:QA:310:GLY:N	44:QA:383:ALA:HB2	2.27	0.49
45:QB:1:MET:C	45:QB:2:ARG:HG2	2.32	0.49
45:QD:390:ARG:HG3	45:QD:391:ARG:HG2	1.94	0.49
45:QH:190:HIS:CE1	45:QH:411:ALA:HA	2.46	0.49
45:QH:190:HIS:O	45:QH:193:VAL:HG12	2.13	0.49
45:QH:304:ASP:CG	45:QH:306:ARG:HG2	2.32	0.49
45:QJ:6:HIS:HB2	45:QJ:134:GLN:HE21	1.78	0.49
44:QK:2:ARG:CZ	44:QK:2:ARG:HB2	2.43	0.49
45:QL:134:GLN:HG3	45:QL:134:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:314:SER:OG	45:QL:350:LYS:HE3	2.12	0.49
44:QM:36:MET:CG	44:QM:37:PRO:HD2	2.40	0.49
44:QM:175:PRO:HD2	44:QM:207:GLU:OE1	2.13	0.49
45:QN:392:LYS:HG3	45:QN:395:LEU:HD22	1.94	0.49
45:QN:396:HIS:HA	45:QN:399:THR:OG1	2.12	0.49
45:RB:7:ILE:CD1	45:RB:120:VAL:HG11	2.43	0.49
44:RC:3:GLU:HG3	44:RC:129:CYS:SG	2.52	0.49
45:RD:32:PRO:CD	45:RD:33:THR:H	2.22	0.49
45:RD:91:VAL:HG21	45:RD:115:SER:OG	2.12	0.49
44:RE:362:VAL:HG13	44:RE:362:VAL:O	2.12	0.49
45:RF:86:ARG:NH2	45:RF:87:PRO:HG2	2.18	0.49
45:RF:262:ARG:NH1	45:RF:262:ARG:HB2	2.27	0.49
45:RF:382:ALA:HA	45:RF:415:MET:HE1	1.95	0.49
44:RG:208:ALA:HA	44:RG:211:ASP:HB2	1.94	0.49
44:RG:290:GLU:O	44:RG:293:ASN:HB2	2.12	0.49
45:RH:65:LEU:HD22	45:RH:90:PHE:HE1	1.77	0.49
44:RI:133:GLN:OE1	44:RI:133:GLN:HA	2.12	0.49
44:RI:348:PRO:HD2	45:RJ:388:MET:HE2	1.89	0.49
44:RI:403:ALA:O	44:RI:404:PHE:HB2	2.11	0.49
45:RJ:319:GLY:CA	45:RJ:363:MET:HE1	2.38	0.49
44:RK:102:ASN:O	44:RK:106:GLY:N	2.44	0.49
45:RL:137:HIS:N	45:RL:167:PHE:O	2.32	0.49
45:RN:64:ILE:HD11	45:RN:123:GLU:OE1	2.11	0.49
44:SA:28:HIS:CE1	44:SA:48:ALA:HB3	2.47	0.49
44:SA:91:GLN:CB	44:SA:121:ARG:HD2	2.42	0.49
44:SA:258:ASN:CG	45:SB:179:VAL:HG22	2.32	0.49
45:SB:29:GLY:HA3	45:SB:36:TYR:CE1	2.47	0.49
45:SB:271:ALA:HB1	45:SB:292:GLN:CD	2.32	0.49
45:SB:294:PHE:CD2	45:SB:333:VAL:HG21	2.46	0.49
45:SB:344:TRP:HB3	45:SB:430:ALA:HB2	1.93	0.49
45:SB:372:THR:N	45:SB:377:MET:SD	2.85	0.49
44:SC:71:GLU:OE1	44:SC:73:THR:N	2.45	0.49
45:SD:267:MET:CE	45:SD:305:PRO:HB3	2.42	0.49
45:SD:304:ASP:OD1	45:SD:306:ARG:HD3	2.11	0.49
45:SF:27:GLU:OE2	45:SF:242:PHE:HE2	1.95	0.49
44:SG:114:ILE:HG22	44:SG:114:ILE:O	2.12	0.49
45:SH:97:ALA:HB3	45:SH:143:THR:CA	2.42	0.49
45:SH:222:TYR:OH	48:SH:501:GDP:C2	2.66	0.49
44:SI:276:ILE:HG22	44:SI:281:ALA:HA	1.93	0.49
45:SJ:344:TRP:CZ3	45:SJ:345:ILE:HD11	2.47	0.49
44:SK:108:TYR:CA	44:SK:112:LYS:HE3	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:200:VAL:CG2	44:SK:256:GLN:HB3	2.42	0.49
45:SL:323:THR:HG23	44:SM:223:THR:CA	2.38	0.49
44:SM:207:GLU:OE2	44:SM:207:GLU:HA	2.11	0.49
44:SM:321:GLY:H	44:SM:356:ASN:C	2.12	0.49
45:SN:13:GLY:HA3	45:SN:136:THR:O	2.13	0.49
45:SN:143:THR:HG23	45:SN:144:GLY:N	2.27	0.49
45:SN:268:ILE:HG21	45:SN:368:VAL:HG22	1.93	0.49
44:TA:274:PRO:HD2	44:TA:374:ALA:CB	2.42	0.49
45:TB:44:LEU:HD22	45:TB:47:ILE:HG21	1.93	0.49
45:TB:69:GLU:OE1	45:TB:71:GLY:N	2.44	0.49
44:TC:141:VAL:HG11	44:TC:172:TYR:CD1	2.46	0.49
44:TC:289:ALA:HA	44:TC:292:THR:HG22	1.95	0.49
45:TD:285:THR:O	45:TD:289:LEU:HG	2.12	0.49
44:TE:75:ILE:HG21	44:TE:92:LEU:HD21	1.93	0.49
44:TE:387:VAL:O	44:TE:391:LEU:HD13	2.12	0.49
44:TG:31:GLN:HG3	44:TG:37:PRO:HD3	1.95	0.49
44:TG:338:LYS:HD3	44:TG:341:ILE:CG2	2.43	0.49
45:TH:164:MET:N	45:TH:164:MET:SD	2.86	0.49
45:TH:415:MET:O	45:TH:419:VAL:HG23	2.12	0.49
44:TI:384:ILE:HG13	44:TI:387:VAL:CG2	2.43	0.49
45:TJ:4:ILE:HD11	45:TJ:50:TYR:CZ	2.47	0.49
45:TJ:116:VAL:O	45:TJ:120:VAL:HG23	2.12	0.49
44:TK:71:GLU:OE2	44:TK:73:THR:OG1	2.30	0.49
44:TK:269:LEU:H	44:TK:269:LEU:HD23	1.77	0.49
44:TK:328:VAL:O	44:TK:331:SER:HB2	2.12	0.49
45:TL:156:ARG:HD2	45:TL:164:MET:HE3	1.95	0.49
45:TL:222:TYR:O	45:TL:226:ASN:OD1	2.30	0.49
44:TM:182:VAL:C	44:TM:184:PRO:HD2	2.32	0.49
45:TN:178:THR:O	45:TN:181:GLU:HB2	2.12	0.49
45:TN:325:GLU:CA	45:TN:328:GLU:HG2	2.33	0.49
45:UB:232:ALA:O	45:UB:236:VAL:N	2.37	0.49
45:UB:253:LEU:O	45:UB:257:LEU:HD13	2.11	0.49
45:UB:325:GLU:HA	45:UB:328:GLU:HG2	1.95	0.49
44:UC:258:ASN:CB	45:UD:179:VAL:HG22	2.42	0.49
45:UD:242:PHE:CD1	45:UD:356:ILE:HG13	2.46	0.49
45:UD:262:ARG:NH1	45:UD:421:GLU:OE1	2.45	0.49
45:UD:325:GLU:CD	45:UD:329:GLN:HE21	2.12	0.49
44:UE:5:ILE:HD12	44:UE:132:LEU:HD11	1.94	0.49
44:UE:172:TYR:HD2	44:UE:203:MET:SD	2.36	0.49
44:UE:184:PRO:HA	44:UE:187:SER:OG	2.11	0.49
44:UE:250:VAL:HG11	44:UE:318:MET:CE	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:387:VAL:HG12	44:UE:390:ARG:NH1	2.27	0.49
45:UF:40:SER:OG	45:UF:43:GLN:HG3	2.12	0.49
45:UF:202:ILE:HD11	45:UF:268:ILE:HD11	1.93	0.49
45:UF:258:ILE:CD1	45:UF:266:PHE:HZ	2.25	0.49
45:UF:324:LYS:NZ	44:UG:210:TYR:HB3	2.27	0.49
44:UG:68:LEU:HD21	44:UG:118:CYS:SG	2.52	0.49
45:UH:242:PHE:HB3	45:UH:356:ILE:HG13	1.93	0.49
45:UJ:10:GLY:HA3	45:UJ:144:GLY:CA	2.41	0.49
45:UJ:156:ARG:NH2	45:UJ:197:ASP:OD2	2.45	0.49
45:UL:245:GLN:HB3	44:UM:224:TYR:CD2	2.47	0.49
44:UM:5:ILE:HG12	44:UM:64:ARG:CD	2.42	0.49
44:UM:98:ASP:OD1	44:UM:99:ALA:N	2.45	0.49
44:UM:274:PRO:CG	44:UM:371:VAL:HG21	2.40	0.49
45:UN:4:ILE:CD1	45:UN:131:GLN:HB3	2.42	0.49
45:UN:270:PHE:CD2	45:UN:273:LEU:HD21	2.44	0.49
44:VA:56:THR:HG21	44:VA:60:LYS:N	2.27	0.49
44:VA:377:MET:HG3	44:VA:377:MET:O	2.12	0.49
45:VB:34:GLY:O	45:VB:58:ARG:HA	2.13	0.49
45:VB:67:ASP:N	45:VB:73:MET:HE3	2.27	0.49
45:VB:178:THR:CG2	45:VB:180:VAL:HG12	2.42	0.49
44:VC:141:VAL:HG23	44:VC:147:SER:HB2	1.95	0.49
44:VE:13:GLY:HA2	44:VE:16:VAL:HG12	1.94	0.49
44:VE:190:SER:O	44:VE:193:SER:N	2.44	0.49
44:VE:276:ILE:HD13	44:VE:281:ALA:HA	1.94	0.49
45:VF:86:ARG:CD	45:WF:281:TYR:HB3	2.21	0.49
45:VF:184:ASN:OD1	45:VF:185:ALA:N	2.45	0.49
45:VH:285:THR:O	45:VH:288:GLU:N	2.44	0.49
44:VI:128:ASN:OD1	44:WI:285:GLN:NE2	2.44	0.49
44:VK:21:TRP:HZ2	44:VK:65:ALA:HB2	1.77	0.49
44:VK:103:PHE:CD2	44:VK:189:LEU:HD13	2.47	0.49
45:VL:420:SER:O	45:VL:423:GLN:HG3	2.13	0.49
44:WA:229:ARG:HG3	44:WA:229:ARG:NH1	2.21	0.49
45:WB:151:LEU:HD21	45:WB:155:VAL:HG21	1.95	0.49
44:WC:188:ILE:HG21	44:WC:395:PHE:CE2	2.48	0.49
44:WC:254:GLU:CD	45:WF:98:GLY:HA2	2.33	0.49
45:WD:263:LEU:HG	45:WD:422:TYR:HD1	1.77	0.49
44:WE:276:ILE:CG2	44:WE:280:LYS:HG3	2.42	0.49
44:WG:137:VAL:O	44:WG:168:GLY:HA2	2.12	0.49
44:WG:319:TYR:CD2	44:WG:375:VAL:HG12	2.46	0.49
45:WH:16:ILE:HD12	45:WH:16:ILE:H	1.77	0.49
44:WI:24:PHE:HZ	44:WI:235:ILE:HG22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:32:PRO:O	44:WI:86:LEU:HB2	2.11	0.49
44:WK:258:ASN:HD22	45:WN:179:VAL:CG2	2.24	0.49
44:WK:317:MET:SD	44:WK:375:VAL:HG13	2.53	0.49
44:WM:310:GLY:HA3	44:WM:383:ALA:CB	2.42	0.49
45:WN:152:ILE:HD12	45:WN:152:ILE:H	1.78	0.49
45:WN:320:ARG:O	45:WN:321:MET:CE	2.61	0.49
45:WN:420:SER:HA	45:WN:423:GLN:CG	2.43	0.49
1:6H:173:SER:CA	45:FB:320:ARG:HD3	2.36	0.49
7:0F:188:ILE:CG2	44:EE:89:PRO:HB3	2.42	0.49
15:0V:86:ARG:NE	45:LN:194:GLU:HG3	2.27	0.49
20:1J:263:PHE:CE2	44:II:282:TYR:N	2.79	0.49
21:1K:161:GLU:CD	44:GC:370:LYS:HD2	2.32	0.49
22:1L:150:ARG:NH1	45:CH:42:LEU:HD22	2.28	0.49
24:1O:264:ILE:HG23	44:UA:282:TYR:CD2	2.46	0.49
25:1P:221:ILE:CG2	44:TG:370:LYS:HD3	2.41	0.49
25:1P:265:ARG:NH2	45:TF:219:THR:OG1	2.45	0.49
5:2D:175:THR:HG22	44:EK:76:ASP:OD1	2.12	0.49
29:2F:95:LEU:HD22	44:HE:340:THR:CG2	2.38	0.49
2:3A:125:LEU:HB2	45:AN:276:ARG:NH1	2.26	0.49
31:3H:186:CYS:CB	45:AH:279:GLN:HE22	2.20	0.49
15:3V:37:THR:OG1	44:MA:211:ASP:OD1	2.17	0.49
16:3X:87:ASP:CG	35:6R:53:LEU:HD21	2.30	0.49
16:4X:70:TYR:CE2	45:LJ:362:LYS:HB2	2.48	0.49
37:5B:76:ILE:HG23	45:NF:40:SER:CB	2.42	0.49
38:5G:110:ARG:HG3	38:5G:111:ASN:N	2.27	0.49
11:5Q:19:SER:C	11:5Q:20:LYS:HD3	2.33	0.49
11:5Q:54:VAL:HG11	11:5Q:86:TYR:HB2	1.94	0.49
35:5R:258:PHE:HD1	35:5R:352:CYS:HB3	1.77	0.49
40:6F:139:LEU:HD21	44:IG:22:GLU:HG2	1.93	0.49
41:6G:201:MET:HE1	45:VF:335:ASN:HB2	1.93	0.49
11:6Q:72:LYS:O	11:6Q:72:LYS:HG2	2.12	0.49
35:6R:417:TYR:OH	44:EM:372:MET:HE1	2.01	0.49
35:6R:509:ASP:CG	44:EM:40:LYS:HA	2.31	0.49
35:7R:500:VAL:O	35:7R:500:VAL:HG12	2.12	0.49
42:8N:133:UNK:O	42:8N:136:UNK:N	2.45	0.49
45:AB:283:ALA:HB2	45:MB:54:ALA:HA	1.94	0.49
44:AC:153:LEU:O	44:AC:157:LEU:HG	2.12	0.49
44:AC:398:MET:CE	45:AD:346:PRO:HD2	2.42	0.49
45:AD:262:ARG:HH12	45:AD:421:GLU:HG3	1.76	0.49
45:AD:268:ILE:O	45:AD:300:MET:HE3	2.11	0.49
45:AD:309:ARG:N	45:AD:372:THR:OG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:3:GLU:CD	44:AE:129:CYS:HB3	2.32	0.49
44:AE:86:LEU:HG	44:AE:87:PHE:CD1	2.47	0.49
44:AE:224:TYR:CE2	45:AF:246:LEU:HD11	2.38	0.49
45:AF:7:ILE:CG2	45:AF:135:ILE:HD12	2.42	0.49
45:AF:283:ALA:HB2	45:MF:54:ALA:HA	1.93	0.49
44:AG:98:ASP:HB3	45:AH:249:ASP:OD2	2.12	0.49
44:AG:229:ARG:O	44:AG:232:ALA:HB3	2.11	0.49
44:AI:343:PHE:CZ	44:AI:351:PHE:HE1	2.30	0.49
45:AJ:333:VAL:O	45:AJ:333:VAL:HG22	2.13	0.49
44:AK:73:THR:O	44:AK:77:GLU:HG2	2.12	0.49
44:AK:147:SER:HB2	44:AK:190:SER:HB3	1.94	0.49
44:AM:77:GLU:OE2	45:AN:243:PRO:HG3	2.12	0.49
44:AM:91:GLN:HA	44:AM:93:ILE:CD1	2.42	0.49
45:AN:34:GLY:O	45:AN:58:ARG:HA	2.11	0.49
45:AN:309:ARG:HG2	45:AN:340:TYR:HA	1.94	0.49
44:BA:26:LEU:HD21	44:BA:364:PRO:HD2	1.93	0.49
44:BA:90:GLU:HB3	44:CA:280:LYS:NZ	2.28	0.49
44:BA:214:ARG:HH21	44:BA:215:ARG:HG2	1.74	0.49
44:BA:276:ILE:CG2	44:BA:281:ALA:HB2	2.42	0.49
44:BA:384:ILE:HG13	44:BA:387:VAL:HG22	1.94	0.49
44:BC:276:ILE:HG21	44:BC:281:ALA:HB2	1.94	0.49
45:BD:244:GLY:HA2	45:BD:355:ASP:OD2	2.11	0.49
45:BF:174:LYS:HA	45:BF:174:LYS:HE3	1.94	0.49
44:BG:317:MET:HE1	44:BG:319:TYR:OH	2.12	0.49
44:BI:196:GLU:HA	44:BI:196:GLU:OE1	2.13	0.49
44:BI:324:VAL:HG21	45:BL:219:THR:CG2	2.41	0.49
45:BJ:274:THR:CG2	45:BJ:279:GLN:HA	2.42	0.49
44:BK:439:THR:CG2	45:BN:390:ARG:HH12	2.25	0.49
45:BL:113:ILE:HA	45:BL:116:VAL:CG1	2.42	0.49
44:BM:101:ASN:HA	44:BM:144:GLY:H	1.77	0.49
44:BM:433:GLU:O	44:BM:437:ILE:HG23	2.12	0.49
44:CA:187:SER:O	44:CA:190:SER:OG	2.23	0.49
44:CA:318:MET:CE	44:CA:354:GLY:HA3	2.42	0.49
44:CA:328:VAL:O	44:CA:332:ILE:HG12	2.11	0.49
45:CB:143:THR:HG23	45:CB:144:GLY:N	2.27	0.49
44:CC:13:GLY:CA	44:CC:16:VAL:HG12	2.42	0.49
44:CC:69:ASP:OD2	44:CC:74:VAL:HG21	2.13	0.49
44:CC:144:GLY:O	44:CC:148:GLY:N	2.30	0.49
44:CC:204:LEU:HD13	44:CC:231:ILE:CD1	2.43	0.49
44:CC:215:ARG:NH2	44:CC:299:ALA:O	2.45	0.49
44:CC:242:LEU:HD11	44:CC:252:ILE:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:256:GLN:NE2	45:CF:397:TRP:HH2	2.10	0.49
44:CG:89:PRO:CD	44:DG:280:LYS:HG2	2.41	0.49
44:CG:170:THR:O	44:CG:204:LEU:HD12	2.12	0.49
45:CH:81:PHE:O	45:CH:84:LEU:HB2	2.12	0.49
45:CH:143:THR:HG23	45:CH:144:GLY:N	2.27	0.49
45:CH:266:PHE:CD1	45:CH:370:ASN:HB2	2.47	0.49
44:CI:276:ILE:O	44:CI:369:ALA:HB3	2.12	0.49
44:CK:318:MET:SD	44:CK:354:GLY:HA3	2.52	0.49
45:CL:101:TRP:CZ3	45:CL:187:LEU:HD22	2.47	0.49
45:CL:322:SER:HB3	44:CM:221:ARG:HG3	1.93	0.49
45:CN:276:ARG:NH1	45:CN:279:GLN:HE22	2.11	0.49
45:CN:390:ARG:O	45:CN:392:LYS:NZ	2.45	0.49
44:DA:115:VAL:O	44:DA:119:LEU:HD23	2.13	0.49
44:DA:316:SER:HB2	44:DA:352:LYS:HB3	1.93	0.49
44:DC:242:LEU:CD1	44:DC:252:ILE:HG13	2.43	0.49
45:DD:273:LEU:H	45:DD:292:GLN:NE2	2.08	0.49
45:DF:8:GLN:HG3	45:DF:136:THR:O	2.12	0.49
44:DG:104:ALA:HB1	44:DG:413:MET:HG3	1.94	0.49
45:DH:345:ILE:HG23	45:DH:345:ILE:O	2.13	0.49
45:DH:372:THR:HA	45:DH:422:TYR:CE2	2.48	0.49
44:DI:262:TYR:HB3	44:DI:263:PRO:CD	2.38	0.49
45:DL:2:ARG:HH12	45:DL:46:ARG:HH11	1.61	0.49
45:DL:247:ASN:ND2	44:DM:73:THR:HB	2.27	0.49
44:DM:9:VAL:HG22	44:DM:146:GLY:CA	2.38	0.49
45:DN:1:MET:HG3	45:DN:2:ARG:N	2.27	0.49
45:DN:34:GLY:O	45:DN:58:ARG:HA	2.12	0.49
45:DN:60:VAL:HG21	45:DN:86:ARG:CB	2.32	0.49
44:EA:14:ILE:HD11	44:EA:68:LEU:O	2.13	0.49
44:EA:126:ALA:O	44:EA:129:CYS:N	2.45	0.49
45:EB:64:ILE:HG12	45:EB:119:VAL:CG2	2.41	0.49
44:EC:143:GLY:O	44:EC:147:SER:N	2.29	0.49
45:ED:312:THR:HA	45:ED:348:ASN:HB2	1.94	0.49
45:ED:417:ASP:HA	45:ED:420:SER:HB3	1.94	0.49
44:EE:51:THR:HG21	44:EE:243:ARG:CD	2.42	0.49
44:EE:260:VAL:HG12	44:EE:262:TYR:O	2.11	0.49
44:EG:257:THR:HA	45:EH:397:TRP:NE1	2.28	0.49
44:EG:313:MET:HE2	44:EG:381:SER:HA	1.94	0.49
45:EH:296:ALA:O	45:EH:299:MET:N	2.45	0.49
45:EJ:86:ARG:HG3	45:EJ:88:ASP:N	2.28	0.49
45:EJ:86:ARG:CZ	45:FJ:281:TYR:HB2	2.41	0.49
45:EJ:317:PHE:HD1	45:EJ:365:VAL:HG11	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:246:GLY:HA2	44:EM:357:TYR:CD2	2.47	0.49
45:EN:137:HIS:CE1	45:EN:139:LEU:HD12	2.47	0.49
44:FA:174:SER:HB3	44:FA:177:VAL:CB	2.41	0.49
44:FA:398:MET:CE	45:FB:345:ILE:HA	2.43	0.49
45:FB:27:GLU:OE1	45:FB:241:ARG:NH1	2.45	0.49
45:FB:72:THR:HG23	45:FB:73:MET:N	2.28	0.49
45:FB:256:ASN:C	45:FB:257:LEU:HD12	2.32	0.49
45:FD:97:ALA:CB	45:FD:143:THR:HG22	2.42	0.49
45:FD:226:ASN:O	45:FD:229:VAL:N	2.45	0.49
45:FD:323:THR:O	45:FD:326:VAL:HG12	2.12	0.49
44:FE:271:SER:HA	44:FE:302:MET:CG	2.38	0.49
45:FF:182:PRO:HG2	45:FF:388:MET:CE	2.42	0.49
45:FF:287:PRO:O	45:FF:290:THR:HG22	2.12	0.49
44:FG:97:GLU:CG	45:FH:251:ARG:HH22	2.25	0.49
44:FG:363:VAL:HG23	44:FG:364:PRO:HD2	1.93	0.49
44:FI:250:VAL:HG11	44:FI:318:MET:CE	2.41	0.49
45:FJ:237:THR:HG23	45:FJ:241:ARG:HH12	1.77	0.49
45:FL:323:THR:O	45:FL:326:VAL:N	2.46	0.49
45:FN:257:LEU:CA	45:FN:312:THR:HG21	2.42	0.49
44:GC:261:PRO:HA	45:GF:394:PHE:CE1	2.47	0.49
44:GC:372:MET:HG3	44:GC:373:ARG:CD	2.39	0.49
45:GD:379:LYS:O	45:GD:383:GLU:N	2.39	0.49
45:GF:100:ASN:ND2	45:GF:103:LYS:H	2.09	0.49
45:GF:352:SER:O	45:GF:353:ILE:HD13	2.13	0.49
45:GH:86:ARG:HE	45:GH:87:PRO:HD2	1.77	0.49
45:GH:114:ASP:O	45:GH:117:LEU:HB3	2.12	0.49
45:GH:330:MET:HA	45:GH:330:MET:HE3	1.92	0.49
44:GI:34:GLY:HA3	44:GI:60:LYS:HE2	1.95	0.49
44:GI:203:MET:CG	44:GI:384:ILE:HD11	2.41	0.49
45:GJ:11:GLN:O	45:GJ:15:GLN:HG2	2.12	0.49
44:GK:115:VAL:O	44:GK:119:LEU:HD23	2.13	0.49
44:GK:316:SER:HA	44:GK:352:LYS:O	2.12	0.49
45:GL:101:TRP:HE1	45:GL:105:HIS:CG	2.30	0.49
44:GM:88:HIS:ND1	44:HM:283:HIS:O	2.44	0.49
44:HA:305:CYS:SG	44:HA:306:ASP:N	2.86	0.49
44:HA:346:TRP:CE3	44:HA:347:CYS:HB2	2.47	0.49
45:HB:396:HIS:HA	45:HB:399:THR:OG1	2.13	0.49
44:HC:174:SER:HB3	44:HC:175:PRO:HD2	1.94	0.49
45:HD:163:ILE:HG13	45:HD:164:MET:H	1.78	0.49
45:HD:174:LYS:HB3	45:HD:205:GLU:OE2	2.12	0.49
45:HD:190:HIS:O	45:HD:193:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HD:398:TYR:O	45:HD:403:MET:HG3	2.12	0.49
44:HE:70:LEU:HD11	44:HE:149:LEU:HD23	1.94	0.49
44:HE:288:VAL:HG11	44:HE:327:ASP:CG	2.32	0.49
45:HF:2:ARG:HB2	45:HF:131:GLN:CD	2.32	0.49
44:HG:24:PHE:HZ	44:HG:235:ILE:HG22	1.76	0.49
45:HH:130:LEU:HD11	45:HH:133:PHE:CE1	2.47	0.49
45:HH:135:ILE:O	45:HH:166:THR:HA	2.12	0.49
45:HH:254:ALA:HA	45:HH:258:ILE:HD13	1.92	0.49
44:HI:222:PRO:HG3	45:HJ:324:LYS:HD3	1.93	0.49
45:HL:130:LEU:HD23	45:HL:162:ARG:HG3	1.93	0.49
44:HM:215:ARG:NH2	44:HM:299:ALA:HB1	2.27	0.49
45:HN:100:ASN:OD1	45:HN:100:ASN:O	2.29	0.49
45:HN:290:THR:HG22	45:HN:330:MET:HE1	1.95	0.49
44:IA:326:LYS:HE2	45:ID:220:PRO:HD2	1.95	0.49
44:IA:401:LYS:CG	44:IA:401:LYS:O	2.60	0.49
45:IB:211:CYS:SG	45:IB:228:LEU:HD11	2.52	0.49
45:IB:221:THR:HG23	45:IB:224:ASP:H	1.76	0.49
45:IB:310:TYR:HD2	45:IB:340:TYR:O	1.95	0.49
44:IC:103:PHE:HB3	44:IC:408:TYR:HE1	1.76	0.49
44:IC:205:ASP:CG	44:IC:304:LYS:H	2.15	0.49
44:IC:363:VAL:HG23	44:IC:364:PRO:HD2	1.92	0.49
45:ID:257:LEU:O	45:ID:259:PRO:HD3	2.11	0.49
44:IE:88:HIS:HA	45:JF:281:TYR:CD2	2.47	0.49
44:IE:250:VAL:HG12	44:IE:255:PHE:CE1	2.43	0.49
45:IH:73:MET:CE	45:IH:92:PHE:HD2	2.24	0.49
45:IH:172:SER:OG	45:IH:205:GLU:OE1	2.18	0.49
45:IH:248:SER:CA	45:IH:252:LYS:HD2	2.42	0.49
45:IJ:19:LYS:HB3	45:IJ:230:SER:OG	2.12	0.49
45:IJ:192:LEU:CD1	45:IJ:196:ALA:HB2	2.42	0.49
45:IJ:275:SER:O	45:IJ:279:GLN:HB2	2.12	0.49
45:IL:392:LYS:HG3	45:IL:395:LEU:HD22	1.94	0.49
45:JB:25:SER:HB3	45:JB:30:ILE:HG13	1.94	0.49
45:JD:67:ASP:OD1	45:JD:143:THR:HG21	2.11	0.49
45:JD:296:ALA:CB	45:JD:306:ARG:HH21	2.25	0.49
45:JD:399:THR:HA	45:JD:403:MET:O	2.12	0.49
44:JE:325:PRO:O	44:JE:328:VAL:N	2.45	0.49
44:JG:335:ILE:HA	44:JG:338:LYS:HZ1	1.77	0.49
44:JG:363:VAL:CG1	44:JG:364:PRO:HD2	2.36	0.49
44:JG:386:GLU:O	44:JG:389:SER:OG	2.22	0.49
45:JH:12:CYS:HB3	45:JH:138:SER:HB3	1.94	0.49
45:JH:170:VAL:HG22	45:JH:171:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JJ:60:VAL:HG13	45:JJ:60:VAL:O	2.12	0.49
45:JJ:66:MET:HA	45:JJ:73:MET:SD	2.52	0.49
45:JJ:199:CYS:O	45:JJ:266:PHE:N	2.39	0.49
44:JM:248:LEU:HB2	44:JM:355:ILE:H	1.78	0.49
44:JM:363:VAL:CG2	44:JM:364:PRO:HD2	2.42	0.49
45:JN:269:GLY:HA3	45:JN:299:MET:HA	1.94	0.49
45:JN:345:ILE:HG23	45:JN:345:ILE:O	2.12	0.49
45:JN:377:MET:HG2	45:JN:380:ARG:NH2	2.27	0.49
44:KA:31:GLN:HE21	44:KA:35:GLN:HB2	1.77	0.49
45:KB:44:LEU:HD23	45:KB:47:ILE:HD12	1.95	0.49
45:KB:211:CYS:CA	45:KB:215:LEU:HB2	2.41	0.49
45:KB:330:MET:HA	45:KB:333:VAL:CG1	2.42	0.49
44:KC:263:PRO:HD3	45:KF:396:HIS:CE1	2.46	0.49
45:KD:109:GLY:HA3	45:KD:147:MET:HE3	1.93	0.49
45:KD:186:THR:HG21	45:KD:385:PHE:HB2	1.94	0.49
45:KD:271:ALA:HB1	45:KD:272:PRO:HA	1.94	0.49
44:KG:362:VAL:CG1	44:KG:370:LYS:HD3	2.42	0.49
44:KI:217:LEU:O	44:KI:218:ASP:HB3	2.12	0.49
44:KK:223:THR:HG22	44:KK:224:TYR:N	2.26	0.49
45:KL:3:GLU:OE2	45:KL:127:CYS:HB2	2.11	0.49
44:KM:317:MET:N	44:KM:352:LYS:O	2.35	0.49
45:KN:3:GLU:CD	45:KN:127:CYS:HB2	2.32	0.49
45:KN:6:HIS:HD2	45:KN:134:GLN:HG3	1.78	0.49
45:KN:172:SER:OG	45:KN:205:GLU:OE2	2.30	0.49
44:LA:223:THR:N	44:LA:226:ASN:OD1	2.36	0.49
44:LA:227:LEU:CD1	46:LB:501:GTP:HN21	2.21	0.49
45:LB:156:ARG:HH11	45:LB:164:MET:HG3	1.77	0.49
44:LC:118:CYS:O	44:LC:122:ILE:HG12	2.12	0.49
44:LC:277:SER:OG	44:LC:279:GLU:OE1	2.12	0.49
44:LE:217:LEU:HA	44:LE:277:SER:HB3	1.93	0.49
44:LG:67:PHE:HB2	44:LG:92:LEU:HG	1.94	0.49
44:LG:181:VAL:HG11	45:LH:256:ASN:O	2.12	0.49
45:LH:201:VAL:O	45:LH:202:ILE:HG13	2.12	0.49
45:LJ:2:ARG:HH12	45:LJ:46:ARG:NH1	2.09	0.49
45:LL:314:SER:HB3	45:LL:368:VAL:CG1	2.41	0.49
44:LM:344:VAL:HG22	44:LM:345:ASP:H	1.78	0.49
45:LN:286:VAL:HA	45:LN:289:LEU:CB	2.42	0.49
44:ME:100:ALA:O	45:MF:255:VAL:HG21	2.11	0.49
44:ME:203:MET:HE3	44:ME:203:MET:HA	1.93	0.49
44:MG:91:GLN:HG3	44:MG:92:LEU:HD12	1.95	0.49
44:MG:195:LEU:HD12	44:MG:266:HIS:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:286:LEU:HA	44:MG:373:ARG:NH2	2.27	0.49
45:MH:174:LYS:HD2	45:MH:175:VAL:CG1	2.34	0.49
44:MI:318:MET:CE	44:MI:354:GLY:HA3	2.42	0.49
44:MI:346:TRP:O	44:MI:346:TRP:HE3	1.96	0.49
45:MJ:330:MET:HA	45:MJ:330:MET:CE	2.42	0.49
44:MK:188:ILE:HG13	44:MK:425:LEU:CD1	2.40	0.49
44:MK:189:LEU:HD22	44:MK:418:PHE:CE2	2.41	0.49
44:MK:195:LEU:HA	44:MK:266:HIS:CE1	2.47	0.49
44:MK:221:ARG:HG3	45:ML:322:SER:OG	2.12	0.49
45:ML:182:PRO:HB2	45:ML:388:MET:HE2	1.93	0.49
45:ML:183:TYR:CE1	45:ML:388:MET:HE3	2.47	0.49
44:MM:123:ARG:NH2	44:MM:160:ASP:HB3	2.26	0.49
45:MN:178:THR:H	45:MN:181:GLU:CD	2.12	0.49
44:NA:2:ARG:HB2	44:NA:133:GLN:HG2	1.94	0.49
44:NA:220:GLU:C	44:NA:221:ARG:HD2	2.32	0.49
44:NA:282:TYR:CZ	44:NA:284:GLU:HA	2.46	0.49
45:NB:272:PRO:HB3	45:NB:289:LEU:CD2	2.42	0.49
45:NB:286:VAL:HG12	45:NB:329:GLN:HG3	1.94	0.49
45:NB:325:GLU:CA	45:NB:328:GLU:HG2	2.37	0.49
44:NC:188:ILE:HD12	44:NC:425:LEU:CD1	2.42	0.49
44:NE:320:ARG:NE	44:NE:360:PRO:HG3	2.28	0.49
45:NF:151:LEU:O	45:NF:155:VAL:HG23	2.12	0.49
45:NF:367:PHE:CE2	45:NF:369:GLY:HA3	2.48	0.49
44:NG:105:ARG:HG2	44:NG:110:ILE:CG1	2.42	0.49
44:NG:306:ASP:O	44:NG:309:HIS:HB3	2.12	0.49
44:NG:398:MET:CE	45:NH:345:ILE:HA	2.41	0.49
45:NH:116:VAL:O	45:NH:119:VAL:HG12	2.13	0.49
44:NI:136:LEU:HD23	44:NI:167:LEU:CB	2.42	0.49
44:NI:315:CYS:O	44:NI:351:PHE:HA	2.12	0.49
44:NI:395:PHE:CD2	44:NI:422:ARG:HD3	2.46	0.49
45:NJ:310:TYR:CE1	45:NJ:371:SER:HB2	2.47	0.49
44:NK:114:ILE:O	44:NK:114:ILE:HG22	2.12	0.49
45:NL:303:ALA:N	45:NL:377:MET:HE3	2.27	0.49
45:NL:316:LEU:HD23	45:NL:352:SER:CB	2.41	0.49
44:NM:54:SER:HB3	44:NM:64:ARG:NH1	2.26	0.49
45:OB:245:GLN:C	45:OB:246:LEU:HD12	2.32	0.49
45:OD:16:ILE:O	45:OD:20:PHE:N	2.29	0.49
45:OD:318:ARG:O	45:OD:364:ALA:N	2.42	0.49
44:OE:9:VAL:HG21	44:OE:149:LEU:HB2	1.93	0.49
44:OE:208:ALA:HB2	44:OE:304:LYS:N	2.28	0.49
44:OE:275:ILE:HD12	44:OE:368:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:161:TYR:HB3	44:OG:164:LYS:CE	2.42	0.49
45:OH:147:MET:O	45:OH:151:LEU:HD23	2.12	0.49
44:OK:338:LYS:HD2	44:OK:341:ILE:HD12	1.94	0.49
45:OL:134:GLN:HA	45:OL:165:GLU:O	2.13	0.49
45:OL:143:THR:O	45:OL:147:MET:HE1	2.11	0.49
44:OM:100:ALA:HB1	45:ON:252:LYS:CA	2.42	0.49
44:OM:181:VAL:HG11	45:ON:256:ASN:O	2.13	0.49
45:ON:3:GLU:C	45:ON:4:ILE:HD12	2.32	0.49
45:ON:202:ILE:CG2	45:ON:207:LEU:HD11	2.43	0.49
45:ON:345:ILE:O	45:ON:345:ILE:HG13	2.11	0.49
44:PA:88:HIS:ND1	44:PA:89:PRO:HD2	2.27	0.49
44:PA:188:ILE:CG2	44:PA:421:ALA:HB1	2.42	0.49
44:PA:383:ALA:O	44:PA:386:GLU:HG2	2.12	0.49
45:PB:127:CYS:SG	45:PB:130:LEU:HD13	2.53	0.49
44:PC:183:GLU:CG	44:PC:184:PRO:HD3	2.42	0.49
44:PC:223:THR:HG23	44:PC:225:THR:HG23	1.93	0.49
44:PC:271:SER:HG	44:PC:301:MET:CE	2.23	0.49
45:PD:260:PHE:HB3	45:PD:261:PRO:HD2	1.92	0.49
44:PE:50:ASN:HA	44:PE:53:PHE:O	2.12	0.49
44:PE:326:LYS:HG2	45:PH:220:PRO:HG2	1.94	0.49
45:PF:274:THR:HG21	45:PF:279:GLN:CB	2.42	0.49
44:PG:8:HIS:CD2	44:PG:17:GLY:HA3	2.47	0.49
44:PG:340:THR:C	44:PG:341:ILE:HD13	2.32	0.49
45:PH:313:ALA:HA	45:PH:369:GLY:CA	2.41	0.49
44:PI:209:ILE:HG23	44:PI:302:MET:HE1	1.94	0.49
45:PJ:47:ILE:HD13	45:PJ:59:TYR:CZ	2.47	0.49
44:PK:253:THR:O	44:PK:257:THR:HG23	2.13	0.49
44:PK:268:MET:HB2	44:PK:380:ASN:N	2.27	0.49
45:PL:325:GLU:CA	45:PL:328:GLU:HG2	2.39	0.49
44:PM:398:MET:CE	45:PN:346:PRO:HD2	2.37	0.49
45:PN:22:GLU:HG2	45:PN:81:PHE:CD2	2.47	0.49
44:QA:47:ASP:HB2	44:QA:49:PHE:CD1	2.47	0.49
44:QA:102:ASN:CG	44:QA:105:ARG:HG3	2.32	0.49
44:QA:195:LEU:HD11	44:QA:428:LEU:CD1	2.42	0.49
44:QA:316:SER:OG	44:QA:378:ILE:HB	2.12	0.49
45:QD:273:LEU:N	45:QD:292:GLN:HE22	2.10	0.49
44:QE:4:VAL:HG23	44:QE:134:GLY:O	2.12	0.49
44:QG:332:ILE:HD12	44:QG:332:ILE:H	1.77	0.49
45:QH:3:GLU:CG	45:QH:62:ARG:HH12	2.25	0.49
45:QH:302:ALA:HB3	45:QH:377:MET:HE3	1.92	0.49
44:QI:93:ILE:HG23	44:QI:117:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:3:GLU:HG2	44:QK:64:ARG:CZ	2.42	0.49
44:QK:67:PHE:C	44:QK:68:LEU:HD12	2.33	0.49
44:QK:258:ASN:HA	45:QL:394:PHE:CE2	2.47	0.49
44:QK:319:TYR:CE2	44:QK:375:VAL:HB	2.47	0.49
45:QN:309:ARG:HA	45:QN:340:TYR:O	2.13	0.49
44:RA:60:LYS:HD3	44:SA:283:HIS:CE1	2.47	0.49
44:RA:258:ASN:HD22	44:RA:352:LYS:HB2	1.75	0.49
45:RB:116:VAL:HA	45:RB:119:VAL:HG12	1.92	0.49
45:RB:190:HIS:O	45:RB:193:VAL:HG12	2.12	0.49
45:RB:263:LEU:HG	45:RB:422:TYR:CE1	2.46	0.49
45:RB:309:ARG:O	45:RB:372:THR:HG23	2.12	0.49
44:RC:258:ASN:HD22	44:RC:352:LYS:CB	2.23	0.49
44:RC:390:ARG:HG3	44:RC:391:LEU:N	2.27	0.49
44:RE:52:PHE:CE2	44:RE:239:THR:HB	2.47	0.49
45:RF:262:ARG:HB2	45:RF:262:ARG:CZ	2.43	0.49
44:RG:91:GLN:HG3	44:RG:92:LEU:HD12	1.94	0.49
44:RG:390:ARG:HB2	44:RG:394:LYS:NZ	2.26	0.49
45:RH:376:GLU:O	45:RH:380:ARG:HG2	2.12	0.49
44:RI:257:THR:HG22	45:RJ:397:TRP:CE2	2.47	0.49
44:RI:258:ASN:CG	45:RJ:179:VAL:HG22	2.32	0.49
44:RK:5:ILE:HD12	44:RK:135:PHE:CE1	2.47	0.49
45:RL:97:ALA:HB3	45:RL:143:THR:CG2	2.42	0.49
45:RL:210:ILE:O	45:RL:214:THR:OG1	2.16	0.49
44:RM:334:THR:HG22	44:RM:338:LYS:HZ1	1.74	0.49
45:RN:146:GLY:O	45:RN:149:THR:HG22	2.12	0.49
45:RN:178:THR:HB	45:RN:181:GLU:CG	2.30	0.49
45:RN:407:GLU:HA	45:RN:410:GLU:CD	2.32	0.49
44:SA:25:CYS:HB3	44:SA:30:ILE:O	2.12	0.49
45:SB:117:LEU:HD22	45:SB:154:LYS:HE3	1.94	0.49
45:SB:139:LEU:CD1	45:SB:168:SER:HB3	2.42	0.49
45:SB:189:VAL:HB	45:SB:415:MET:CE	2.42	0.49
45:SB:309:ARG:HG2	45:SB:340:TYR:HA	1.94	0.49
44:SC:103:PHE:O	44:SC:107:HIS:N	2.44	0.49
45:SD:36:TYR:CZ	45:SD:44:LEU:HD21	2.47	0.49
45:SF:101:TRP:HB3	45:SF:398:TYR:CE1	2.42	0.49
45:SF:314:SER:CB	45:SF:350:LYS:HB3	2.41	0.49
45:SF:324:LYS:HD2	44:SG:210:TYR:CD1	2.47	0.49
44:SG:55:GLU:OE2	44:SG:56:THR:HG22	2.11	0.49
44:SG:288:VAL:O	44:SG:291:ILE:HG12	2.13	0.49
45:SH:186:THR:CA	45:SH:189:VAL:HG12	2.39	0.49
45:SJ:49:VAL:HG11	45:SJ:241:ARG:CD	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:311:LEU:HB2	45:SJ:370:ASN:O	2.13	0.49
44:SK:174:SER:HB3	44:SK:207:GLU:HB2	1.93	0.49
44:SK:174:SER:CB	44:SK:207:GLU:HB2	2.42	0.49
44:SK:324:VAL:CG1	44:SK:326:LYS:HG2	2.42	0.49
45:SL:183:TYR:HD2	45:SL:398:TYR:HE2	1.60	0.49
45:SL:211:CYS:SG	45:SL:215:LEU:HD12	2.52	0.49
45:SL:249:ASP:OD2	44:SM:98:ASP:HB3	2.12	0.49
45:SL:342:VAL:HG13	45:SL:345:ILE:HG22	1.95	0.49
44:SM:19:ALA:HA	44:SM:22:GLU:OE1	2.11	0.49
44:SM:248:LEU:O	44:SM:355:ILE:N	2.44	0.49
44:SM:273:ALA:HB1	44:SM:274:PRO:HA	1.93	0.49
44:TA:183:GLU:HG2	44:TA:184:PRO:CD	2.42	0.49
45:TB:52:ASN:HB2	45:TB:60:VAL:CG1	2.41	0.49
45:TB:97:ALA:CB	45:TB:143:THR:HB	2.41	0.49
44:TC:288:VAL:HG11	44:TC:327:ASP:CB	2.41	0.49
45:TD:73:MET:HE3	45:TD:92:PHE:CD2	2.47	0.49
44:TE:19:ALA:HA	44:TE:22:GLU:OE1	2.12	0.49
44:TE:88:HIS:HB3	44:TE:91:GLN:CD	2.33	0.49
44:TE:106:GLY:C	44:TE:148:GLY:HA3	2.33	0.49
45:TF:246:LEU:HD11	44:TG:224:TYR:CE2	2.43	0.49
45:TF:325:GLU:OE1	44:TG:221:ARG:NH2	2.46	0.49
44:TG:23:LEU:HD21	44:TG:233:GLN:OE1	2.13	0.49
45:TH:49:VAL:CG2	45:TH:241:ARG:HG2	2.42	0.49
44:TI:32:PRO:HB3	44:TI:83:TYR:HE1	1.76	0.49
44:TI:134:GLY:HA3	44:TI:165:SER:OG	2.12	0.49
44:TI:384:ILE:HG13	44:TI:387:VAL:HG22	1.94	0.49
45:TJ:207:LEU:HG	45:TJ:300:MET:CE	2.42	0.49
44:TK:93:ILE:HD12	44:TK:93:ILE:H	1.78	0.49
44:TK:155:GLU:HG2	44:TK:197:HIS:CE1	2.47	0.49
45:TL:167:PHE:CZ	45:TL:233:MET:HG2	2.47	0.49
44:TM:112:LYS:H	44:TM:112:LYS:CE	2.25	0.49
44:TM:319:TYR:CD2	44:TM:323:VAL:HG11	2.47	0.49
45:TN:21:TRP:CZ3	45:TN:50:TYR:HB3	2.47	0.49
44:UA:153:LEU:O	44:UA:157:LEU:HD23	2.13	0.49
44:UA:217:LEU:CB	44:UA:219:ILE:HG13	2.39	0.49
44:UA:227:LEU:HD23	46:UA:501:GTP:N1	2.26	0.49
44:UC:240:ALA:HA	44:UC:243:ARG:NH2	2.27	0.49
44:UC:324:VAL:CG1	44:UC:325:PRO:HD2	2.43	0.49
44:UC:348:PRO:HD2	45:UD:388:MET:HE1	1.93	0.49
45:UD:325:GLU:H	44:UE:221:ARG:HH11	1.58	0.49
44:UE:8:HIS:HE1	44:UE:21:TRP:HE1	1.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:121:ARG:NE	44:UE:124:LYS:HE2	2.26	0.49
45:UF:311:LEU:HA	45:UF:342:VAL:HG11	1.93	0.49
44:UG:91:GLN:O	44:UG:93:ILE:HD12	2.12	0.49
44:UG:176:GLN:HG2	44:UG:177:VAL:N	2.27	0.49
44:UG:352:LYS:CD	45:UH:178:THR:HA	2.43	0.49
44:UI:115:VAL:HG11	44:UI:152:LEU:HD21	1.93	0.49
44:UI:240:ALA:HB1	44:UI:356:ASN:ND2	2.28	0.49
45:UJ:285:THR:CG2	45:UJ:288:GLU:HG2	2.35	0.49
44:UK:136:LEU:CD2	44:UK:167:LEU:HD22	2.34	0.49
44:UK:292:THR:HA	44:UK:295:ALA:CB	2.42	0.49
44:UK:356:ASN:CG	44:UK:357:TYR:H	2.15	0.49
45:UL:312:THR:HG22	45:UL:370:ASN:HB3	1.95	0.49
44:UM:141:VAL:HG22	44:UM:187:SER:CB	2.42	0.49
45:UN:100:ASN:HD22	45:UN:103:LYS:HB2	1.77	0.49
45:UN:377:MET:SD	45:UN:380:ARG:HD2	2.52	0.49
45:VB:74:ASP:C	45:VB:77:ARG:HH11	2.12	0.49
45:VB:133:PHE:O	45:VB:165:GLU:HB2	2.12	0.49
44:VC:325:PRO:O	44:VC:328:VAL:HB	2.13	0.49
44:VE:288:VAL:O	44:VE:291:ILE:HG12	2.13	0.49
44:VE:326:LYS:CG	45:VH:220:PRO:HD2	2.42	0.49
45:VF:101:TRP:HE3	45:VF:187:LEU:HD13	1.78	0.49
44:VG:66:VAL:HG22	44:VG:68:LEU:CD1	2.43	0.49
44:VG:388:PHE:O	44:VG:392:ASP:HB2	2.13	0.49
44:VI:88:HIS:CE1	44:VI:89:PRO:HD2	2.48	0.49
45:VJ:6:HIS:H	45:VJ:62:ARG:NH1	2.10	0.49
44:VK:54:SER:O	44:VK:61:HIS:HA	2.12	0.49
44:VK:175:PRO:HG3	44:VK:390:ARG:CD	2.42	0.49
44:VK:260:VAL:HG13	44:VK:265:ILE:O	2.12	0.49
44:VM:178:SER:OG	45:VN:347:ASN:HB3	2.12	0.49
44:VM:225:THR:O	44:VM:228:ASN:HB2	2.12	0.49
45:VN:18:ALA:O	45:VN:22:GLU:HG3	2.12	0.49
44:WA:190:SER:O	44:WA:194:LEU:HG	2.11	0.49
44:WA:297:GLU:HB2	44:WA:300:ASN:HD22	1.77	0.49
44:WA:311:LYS:CD	44:WA:342:GLN:HG3	2.39	0.49
45:WB:260:PHE:HB2	45:WB:263:LEU:HD13	1.95	0.49
44:WC:288:VAL:HG21	44:WC:323:VAL:CG2	2.43	0.49
45:WD:130:LEU:HD21	45:WD:133:PHE:CE1	2.47	0.49
45:WD:377:MET:SD	45:WD:380:ARG:HD2	2.52	0.49
44:WE:404:PHE:CD2	45:WF:259:PRO:HA	2.47	0.49
45:WF:141:GLY:HA3	48:WF:501:GDP:PB	2.53	0.49
44:WG:132:LEU:HD12	44:WG:132:LEU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:258:ASN:ND2	44:WI:352:LYS:HD3	2.27	0.49
44:WI:394:LYS:HG2	45:WJ:346:PRO:CG	2.42	0.49
45:WJ:4:ILE:HB	45:WJ:132:GLY:O	2.13	0.49
44:WK:268:MET:HB2	44:WK:380:ASN:HA	1.94	0.49
44:WK:304:LYS:O	44:WK:304:LYS:CD	2.56	0.49
44:WK:349:THR:CG2	45:WN:179:VAL:HA	2.42	0.49
45:WL:144:GLY:N	48:WL:501:GDP:O1B	2.45	0.49
45:WL:273:LEU:H	45:WL:292:GLN:HE22	1.59	0.49
45:WL:304:ASP:CG	45:WL:306:ARG:HG2	2.33	0.49
45:WN:8:GLN:OE1	45:WN:17:GLY:HA3	2.12	0.49
45:WN:144:GLY:N	48:WN:501:GDP:O1B	2.45	0.49
1:6H:329:LEU:CD2	45:FJ:361:LEU:CD1	2.51	0.49
7:0F:146:PHE:HE2	45:FD:59:TYR:HH	1.58	0.49
8:0G:24:GLU:CG	45:JL:216:LYS:HD2	2.42	0.49
9:1H:304:ALA:HA	44:HC:282:TYR:CE2	2.36	0.49
25:1P:302:LYS:CD	45:TD:362:LYS:HD3	2.37	0.49
12:1S:308:TYR:CE1	45:AF:261:PRO:HB2	2.47	0.49
15:1V:95:SER:N	45:LJ:262:ARG:HD3	2.27	0.49
2:2A:36:ARG:HE	45:MJ:243:PRO:CB	2.24	0.49
28:2C:65:PHE:CZ	44:LI:33:ASP:HB2	2.48	0.49
32:2I:67:LYS:HE2	44:GE:326:LYS:HZ1	1.76	0.49
21:2K:411:TYR:CE1	45:GH:276:ARG:HD2	2.47	0.49
11:2Q:19:SER:HA	45:WF:126:GLY:O	2.11	0.49
31:3H:191:LEU:CD2	45:AH:360:GLY:HA2	2.42	0.49
16:3X:8:TYR:HE2	44:MM:322:ASP:OD1	1.96	0.49
31:4H:183:PHE:CE2	45:AL:224:ASP:HB3	2.48	0.49
37:5D:115:ASP:CG	44:NM:372:MET:O	2.50	0.49
38:5F:60:TRP:CZ3	45:OF:279:GLN:HG2	2.47	0.49
11:5Q:73:LEU:HB3	11:5Q:169:ASP:CG	2.33	0.49
35:5R:71:LYS:HZ3	35:5R:71:LYS:HB2	1.78	0.49
35:5R:230:GLU:OE2	45:CJ:218:THR:HG22	2.12	0.49
35:5R:249:LEU:O	35:5R:249:LEU:HD23	2.12	0.49
41:6G:270:THR:O	44:VA:340:THR:HG21	2.13	0.49
35:6R:322:THR:N	45:CN:276:ARG:HH22	2.11	0.49
35:7R:90:ARG:NH2	44:AA:361:THR:OG1	2.46	0.49
42:8N:347:UNK:O	42:8N:351:UNK:HA	2.12	0.49
44:AA:35:GLN:NE2	44:AA:60:LYS:HB3	2.28	0.49
44:AA:437:ILE:HG13	44:AA:437:ILE:O	2.12	0.49
45:AB:52:ASN:HB2	45:AB:60:VAL:HG13	1.94	0.49
45:AB:131:GLN:HG3	45:AB:131:GLN:O	2.12	0.49
45:AB:374:ILE:HD11	45:AB:422:TYR:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:1:MET:C	45:AD:2:ARG:HG2	2.32	0.49
44:AE:265:ILE:HG13	44:AE:432:TYR:HE1	1.77	0.49
45:AF:7:ILE:HD12	45:AF:64:ILE:HB	1.92	0.49
45:AF:91:VAL:HG21	45:AF:116:VAL:HG23	1.93	0.49
44:AG:188:ILE:HG21	44:AG:395:PHE:CD2	2.48	0.49
44:AG:209:ILE:HG22	44:AG:227:LEU:CD2	2.43	0.49
44:AI:12:GLY:O	44:AI:16:VAL:HG12	2.12	0.49
45:AJ:284:LEU:CD1	45:AJ:289:LEU:HD11	2.42	0.49
45:AJ:406:MET:O	45:AJ:410:GLU:HG3	2.13	0.49
44:AK:34:GLY:O	44:AK:60:LYS:HA	2.12	0.49
45:AL:242:PHE:HB3	45:AL:356:ILE:HG13	1.95	0.49
44:BA:258:ASN:ND2	44:BA:352:LYS:HD3	2.27	0.49
45:BB:372:THR:HA	45:BB:422:TYR:CE2	2.48	0.49
44:BE:1:MET:HE1	45:BH:94:GLN:HG2	1.94	0.49
45:BF:383:GLU:O	45:BF:387:ALA:N	2.45	0.49
44:BG:26:LEU:CD2	44:BG:364:PRO:HD3	2.42	0.49
45:BH:65:LEU:HD11	45:BH:85:PHE:CE2	2.48	0.49
45:BH:189:VAL:HG11	45:BH:415:MET:HG3	1.93	0.49
45:BH:383:GLU:O	45:BH:386:THR:OG1	2.25	0.49
44:BI:179:THR:O	45:BJ:350:LYS:HA	2.12	0.49
45:BJ:287:PRO:O	45:BJ:290:THR:HG22	2.13	0.49
44:BK:384:ILE:HG13	44:BK:384:ILE:O	2.13	0.49
45:BL:233:MET:O	45:BL:236:VAL:HG22	2.13	0.49
45:BL:257:LEU:HB3	45:BL:266:PHE:CZ	2.47	0.49
45:BL:304:ASP:OD1	45:BL:305:PRO:HD2	2.12	0.49
45:BN:256:ASN:ND2	45:BN:350:LYS:HE3	2.27	0.49
44:CA:174:SER:CB	44:CA:207:GLU:HB2	2.41	0.49
44:CA:248:LEU:CB	44:CA:355:ILE:HD11	2.43	0.49
44:CA:349:THR:O	44:CA:349:THR:HG23	2.12	0.49
45:CB:374:ILE:HD12	45:CB:374:ILE:H	1.77	0.49
44:CC:89:PRO:HD3	44:DC:283:HIS:ND1	2.27	0.49
44:CC:208:ALA:HB3	44:CC:302:MET:O	2.13	0.49
44:CC:291:ILE:HG13	44:CC:292:THR:N	2.27	0.49
44:CE:271:SER:HB2	44:CE:377:MET:SD	2.52	0.49
45:CF:251:ARG:HB2	45:CF:251:ARG:CZ	2.43	0.49
45:CF:403:MET:HE3	45:CF:403:MET:CA	2.39	0.49
45:CJ:396:HIS:CA	45:CJ:399:THR:HG22	2.36	0.49
45:CL:180:VAL:C	45:CL:182:PRO:HD2	2.33	0.49
45:CN:180:VAL:HG21	45:CN:398:TYR:OH	2.12	0.49
44:DA:101:ASN:N	46:DA:501:GTP:O2G	2.45	0.49
44:DA:135:PHE:HD2	44:DA:165:SER:O	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:225:THR:HA	44:DA:228:ASN:OD1	2.12	0.49
44:DA:287:SER:O	44:DA:290:GLU:HG2	2.12	0.49
45:DB:1:MET:HE2	44:DC:96:LYS:CG	2.42	0.49
44:DC:146:GLY:O	44:DC:150:GLY:N	2.45	0.49
44:DE:71:GLU:HG2	44:DE:98:ASP:HB2	1.94	0.49
44:DE:189:LEU:CD2	44:DE:421:ALA:HB2	2.42	0.49
44:DE:202:VAL:HG11	44:DE:270:SER:HB3	1.93	0.49
45:DF:248:SER:OG	45:DF:252:LYS:HD2	2.12	0.49
44:DG:118:CYS:O	44:DG:122:ILE:HG12	2.13	0.49
44:DI:122:ILE:HD12	44:DI:122:ILE:H	1.78	0.49
44:DI:226:ASN:ND2	44:DI:367:ASP:OD2	2.44	0.49
45:DJ:143:THR:HG22	48:DJ:501:GDP:PB	2.53	0.49
45:DJ:262:ARG:C	45:DJ:263:LEU:HD12	2.32	0.49
45:DJ:304:ASP:HB3	45:DJ:307:HIS:ND1	2.27	0.49
45:DL:252:LYS:N	44:DM:100:ALA:HB1	2.27	0.49
44:DM:137:VAL:HG13	44:DM:168:GLY:HA2	1.95	0.49
44:EA:296:PHE:HE1	44:EA:377:MET:HG2	1.76	0.49
44:EA:316:SER:HB2	44:EA:352:LYS:HB2	1.95	0.49
45:EB:311:LEU:N	45:EB:370:ASN:O	2.43	0.49
45:EB:390:ARG:HG3	45:EB:391:ARG:N	2.27	0.49
44:EC:14:ILE:HD11	44:EC:69:ASP:HB3	1.94	0.49
44:EC:23:LEU:HD11	44:EC:361:THR:HG23	1.94	0.49
45:ED:25:SER:HA	45:ED:30:ILE:CD1	2.43	0.49
45:EF:202:ILE:HD11	45:EF:268:ILE:HD11	1.94	0.49
44:EG:3:GLU:CB	44:EG:129:CYS:HB3	2.36	0.49
44:EG:325:PRO:O	44:EG:329:ASN:N	2.31	0.49
45:EH:378:PHE:HE2	45:EH:418:LEU:HD23	1.77	0.49
44:EK:89:PRO:CB	44:FI:280:LYS:HD3	2.42	0.49
45:EL:336:LYS:HE2	45:EL:336:LYS:HA	1.93	0.49
44:FA:183:GLU:HG2	44:FA:184:PRO:CD	2.41	0.49
45:FD:180:VAL:O	45:FD:180:VAL:HG22	2.12	0.49
45:FD:242:PHE:CD1	45:FD:356:ILE:HG13	2.47	0.49
45:FD:246:LEU:HD12	45:FD:353:ILE:HD13	1.93	0.49
44:FE:115:VAL:HG11	44:FE:152:LEU:HD23	1.94	0.49
44:FE:164:LYS:HD2	44:FE:165:SER:H	1.77	0.49
45:FH:151:LEU:O	45:FH:155:VAL:HG23	2.12	0.49
44:FK:166:LYS:HB2	44:FK:199:ASP:OD2	2.12	0.49
44:FM:12:GLY:O	44:FM:16:VAL:N	2.32	0.49
45:FN:221:THR:O	45:FN:224:ASP:N	2.45	0.49
44:GA:311:LYS:CE	44:GA:344:VAL:HA	2.37	0.49
45:GB:267:MET:HE1	45:GB:371:SER:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:312:THR:CG2	45:GB:370:ASN:HB2	2.38	0.49
45:GB:314:SER:N	45:GB:368:VAL:O	2.39	0.49
44:GE:224:TYR:HD1	44:GE:227:LEU:HD12	1.77	0.49
45:GF:217:LEU:HD11	45:GF:220:PRO:CB	2.41	0.49
44:GG:137:VAL:HG11	44:GG:154:LEU:CD2	2.38	0.49
44:GI:183:GLU:CG	44:GI:184:PRO:HD3	2.42	0.49
44:GI:254:GLU:HG2	45:GL:98:GLY:CA	2.21	0.49
45:GL:61:PRO:CD	45:GL:84:LEU:HB3	2.42	0.49
44:GM:132:LEU:HB2	44:GM:164:LYS:HZ1	1.76	0.49
44:HA:21:TRP:HA	44:HA:21:TRP:CE3	2.47	0.49
44:HA:257:THR:HG22	45:HD:397:TRP:CH2	2.48	0.49
45:HB:6:HIS:C	45:HB:7:ILE:HD12	2.33	0.49
45:HD:267:MET:CE	45:HD:371:SER:H	2.25	0.49
45:HF:179:VAL:HG12	45:HF:179:VAL:O	2.11	0.49
44:HG:145:THR:HG22	46:HG:501:GTP:O2G	2.12	0.49
44:HG:344:VAL:HG21	44:HG:346:TRP:CE2	2.48	0.49
45:HH:36:TYR:CD2	45:HH:44:LEU:HD21	2.47	0.49
45:HH:178:THR:HG22	45:HH:180:VAL:HG12	1.93	0.49
44:HI:12:GLY:O	44:HI:16:VAL:HG12	2.13	0.49
44:HI:259:LEU:O	44:HI:261:PRO:HD3	2.12	0.49
44:HI:316:SER:OG	44:HI:352:LYS:HB3	2.12	0.49
44:HI:317:MET:CE	44:HI:319:TYR:HE2	2.25	0.49
45:HJ:330:MET:O	45:HJ:333:VAL:HG12	2.13	0.49
44:HK:166:LYS:HE2	44:HK:197:HIS:O	2.11	0.49
44:HK:182:VAL:O	44:HK:182:VAL:HG22	2.12	0.49
45:HL:242:PHE:CG	45:HL:356:ILE:HG13	2.47	0.49
45:HN:86:ARG:CZ	45:HN:87:PRO:HD2	2.42	0.49
44:IA:119:LEU:O	44:IA:123:ARG:NH1	2.41	0.49
44:IA:146:GLY:HA3	46:IA:501:GTP:O2B	2.12	0.49
44:IA:179:THR:HG21	45:IB:246:LEU:HD22	1.95	0.49
45:ID:8:GLN:NE2	45:ID:14:ASN:HA	2.27	0.49
45:ID:173:PRO:HG2	45:ID:380:ARG:NH1	2.27	0.49
44:IE:103:PHE:HZ	44:IE:107:HIS:HD1	1.58	0.49
44:IE:181:VAL:HG22	45:IF:256:ASN:CB	2.42	0.49
44:IE:389:SER:HA	44:IE:429:GLU:OE2	2.10	0.49
45:IF:352:SER:C	45:IF:353:ILE:HD12	2.32	0.49
44:IG:296:PHE:CE2	44:IG:335:ILE:HG21	2.47	0.49
44:IG:327:ASP:O	44:IG:330:ALA:HB3	2.12	0.49
45:IH:40:SER:O	45:IH:43:GLN:HB2	2.12	0.49
45:IH:163:ILE:HD11	45:IH:250:LEU:HB2	1.95	0.49
44:II:237:SER:CB	44:II:320:ARG:HH12	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:61:PRO:HG2	45:IJ:85:PHE:CD1	2.47	0.49
45:IJ:310:TYR:CD1	45:IJ:371:SER:HB3	2.47	0.49
45:IJ:314:SER:HB3	45:IJ:368:VAL:CG1	2.43	0.49
44:IK:217:LEU:HD13	44:IK:367:ASP:OD2	2.12	0.49
44:IK:230:LEU:HD11	44:IK:275:ILE:HD13	1.95	0.49
44:IK:326:LYS:HE2	45:IN:219:THR:HA	1.93	0.49
44:IM:207:GLU:OE2	44:IM:304:LYS:HG2	2.12	0.49
44:JA:29:GLY:O	44:JA:36:MET:HG2	2.13	0.49
44:JA:344:VAL:HG22	44:JA:345:ASP:H	1.76	0.49
45:JB:31:ASP:OD2	45:JB:37:HIS:ND1	2.45	0.49
44:JC:205:ASP:OD1	44:JC:303:ALA:HA	2.12	0.49
44:JC:214:ARG:HG3	44:JC:220:GLU:OE2	2.12	0.49
45:JD:200:MET:HA	45:JD:266:PHE:O	2.13	0.49
45:JD:377:MET:O	45:JD:380:ARG:HG2	2.13	0.49
44:JE:174:SER:HB2	44:JE:177:VAL:O	2.12	0.49
45:JF:164:MET:HE3	45:JF:166:THR:HG22	1.93	0.49
45:JF:210:ILE:HG21	45:JF:273:LEU:CD1	2.42	0.49
44:JG:24:PHE:HE1	44:JG:52:PHE:CE2	2.29	0.49
45:JH:62:ARG:HG2	45:JH:62:ARG:O	2.13	0.49
45:JH:228:LEU:HD12	45:JH:273:LEU:CD1	2.42	0.49
45:JJ:70:PRO:HG3	45:JJ:92:PHE:HD2	1.77	0.49
44:JK:11:GLN:HA	44:JK:11:GLN:OE1	2.13	0.49
44:JK:95:GLY:O	44:JK:96:LYS:HD2	2.13	0.49
44:JK:268:MET:HG3	44:JK:379:SER:C	2.33	0.49
45:JL:304:ASP:O	45:JL:304:ASP:OD1	2.30	0.49
45:JN:87:PRO:O	45:JN:90:PHE:HB2	2.12	0.49
45:JN:117:LEU:HA	45:JN:120:VAL:HG12	1.95	0.49
45:JN:334:GLN:CD	45:JN:349:ILE:HD12	2.33	0.49
44:KA:31:GLN:HB2	44:KA:32:PRO:HD2	1.94	0.49
44:KA:88:HIS:ND1	44:KA:89:PRO:HD2	2.27	0.49
44:KA:302:MET:HG2	44:KA:302:MET:O	2.13	0.49
44:KA:312:TYR:HA	44:KA:381:SER:HB3	1.94	0.49
44:KC:24:PHE:HA	44:KC:27:GLU:CD	2.32	0.49
44:KC:372:MET:C	44:KC:373:ARG:HD2	2.33	0.49
45:KD:252:LYS:HG2	45:KD:350:LYS:HE3	1.93	0.49
45:KD:324:LYS:NZ	45:KD:328:GLU:OE1	2.32	0.49
45:KF:135:ILE:HD13	45:KF:164:MET:CE	2.42	0.49
44:KG:70:LEU:HD12	44:KG:145:THR:HB	1.95	0.49
44:KI:319:TYR:CE2	44:KI:328:VAL:HG23	2.48	0.49
45:KJ:173:PRO:HB2	45:KJ:384:GLN:HE22	1.78	0.49
44:KK:258:ASN:ND2	44:KK:352:LYS:HD3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:284:GLU:CD	44:KK:286:LEU:H	2.14	0.49
44:KM:314:ALA:O	44:KM:380:ASN:N	2.42	0.49
44:KM:331:SER:O	44:KM:335:ILE:HD12	2.13	0.49
45:LB:242:PHE:CD2	45:LB:356:ILE:HG21	2.47	0.49
45:LB:321:MET:SD	45:LB:353:ILE:HD12	2.53	0.49
44:LE:259:LEU:HD21	44:LE:316:SER:HB2	1.93	0.49
44:LG:288:VAL:O	44:LG:291:ILE:HG12	2.12	0.49
45:LJ:257:LEU:HD11	45:LJ:313:ALA:HA	1.94	0.49
45:LJ:382:ALA:HA	45:LJ:415:MET:HE1	1.94	0.49
45:LL:344:TRP:CE3	45:LL:345:ILE:HG23	2.47	0.49
44:LM:205:ASP:OD2	44:LM:304:LYS:N	2.34	0.49
44:LM:210:TYR:HA	45:LN:324:LYS:HZ1	1.78	0.49
44:LM:358:GLN:NE2	44:LM:359:PRO:HD2	2.27	0.49
44:MA:271:SER:HB3	44:MA:301:MET:HA	1.94	0.49
44:MA:404:PHE:HZ	45:MB:345:ILE:HD11	1.76	0.49
44:MC:169:PHE:HD1	44:MC:202:VAL:HB	1.78	0.49
45:MF:7:ILE:HB	45:MF:135:ILE:HD13	1.93	0.49
45:MF:395:LEU:HG	45:MF:399:THR:HG21	1.94	0.49
44:MI:96:LYS:CA	45:MJ:1:MET:HE2	2.41	0.49
45:MJ:102:ALA:HA	45:MJ:106:TYR:HD2	1.77	0.49
45:MJ:406:MET:HA	45:MJ:406:MET:HE2	1.93	0.49
45:ML:210:ILE:HD11	45:ML:214:THR:HG21	1.93	0.49
45:ML:222:TYR:HD2	48:ML:501:GDP:C6	2.31	0.49
45:ML:330:MET:O	45:ML:333:VAL:HG12	2.12	0.49
44:MM:26:LEU:CD2	44:MM:363:VAL:HA	2.42	0.49
44:MM:318:MET:CE	44:MM:318:MET:HA	2.41	0.49
44:NA:153:LEU:O	44:NA:157:LEU:HG	2.12	0.49
44:NA:352:LYS:HA	45:ND:177:ASP:O	2.12	0.49
45:NB:222:TYR:HB3	48:NB:501:GDP:O6	2.13	0.49
45:NB:249:ASP:OD1	45:NB:252:LYS:HB2	2.11	0.49
45:NB:265:PHE:HB3	45:NB:374:ILE:HD13	1.94	0.49
45:NB:311:LEU:HD23	45:NB:342:VAL:CG1	2.43	0.49
44:NC:221:ARG:CZ	45:ND:322:SER:H	2.26	0.49
44:NC:236:SER:HA	44:NC:239:THR:HG22	1.94	0.49
44:NC:244:PHE:CE2	44:NC:358:GLN:HG2	2.47	0.49
45:ND:99:ASN:HA	45:ND:142:GLY:H	1.77	0.49
45:ND:392:LYS:O	45:ND:392:LYS:CD	2.57	0.49
44:NE:22:GLU:HB3	44:NE:83:TYR:HE2	1.77	0.49
44:NE:151:SER:HB3	44:NE:193:SER:CB	2.42	0.49
45:NF:174:LYS:HE2	45:NF:174:LYS:HA	1.95	0.49
44:NG:191:THR:O	44:NG:195:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:342:VAL:CG1	45:NH:345:ILE:HG22	2.39	0.49
44:NI:90:GLU:HG3	44:OI:280:LYS:HE3	1.93	0.49
45:NJ:99:ASN:CA	45:NJ:142:GLY:HA3	2.43	0.49
44:NM:5:ILE:O	44:NM:135:PHE:HA	2.13	0.49
44:NM:118:CYS:SG	44:NM:122:ILE:HD11	2.53	0.49
44:NM:213:CYS:HA	44:NM:217:LEU:CB	2.43	0.49
45:NN:130:LEU:HD11	45:NN:133:PHE:CE1	2.47	0.49
44:OA:9:VAL:CG2	44:OA:149:LEU:HB3	2.42	0.49
44:OA:328:VAL:CG1	44:OA:353:VAL:HG21	2.37	0.49
44:OA:332:ILE:HG22	44:OA:336:LYS:HZ2	1.77	0.49
44:OC:111:GLY:CA	44:OC:149:LEU:HD11	2.43	0.49
44:OC:324:VAL:CG1	44:OC:325:PRO:HD2	2.42	0.49
44:OE:151:SER:O	44:OE:155:GLU:HB2	2.12	0.49
45:OF:319:GLY:N	45:OF:357:PRO:HB3	2.27	0.49
44:OG:119:LEU:HD11	44:OG:156:ARG:HG3	1.94	0.49
45:OH:28:HIS:CG	45:OH:47:ILE:HD13	2.48	0.49
45:OJ:113:ILE:HD13	45:OJ:150:LEU:HG	1.93	0.49
45:OJ:122:LYS:HZ1	45:PJ:291:GLN:HG2	1.77	0.49
44:OK:86:LEU:HD23	44:OK:87:PHE:CE2	2.47	0.49
45:OL:267:MET:CE	45:OL:299:MET:HG3	2.42	0.49
45:OL:286:VAL:HG21	45:OL:325:GLU:CD	2.31	0.49
44:PA:319:TYR:HE1	44:PA:375:VAL:HG23	1.76	0.49
45:PB:24:ILE:HG13	45:PB:28:HIS:CD2	2.47	0.49
45:PB:245:GLN:C	45:PB:246:LEU:HD12	2.32	0.49
45:PB:300:MET:O	45:PB:300:MET:HG2	2.12	0.49
45:PD:101:TRP:HZ3	45:PD:403:MET:CE	2.26	0.49
45:PD:325:GLU:HA	45:PD:328:GLU:CG	2.40	0.49
45:PD:372:THR:HG21	45:PD:426:GLN:HB2	1.94	0.49
44:PE:171:ILE:HA	44:PE:204:LEU:HB2	1.93	0.49
45:PF:310:TYR:CD1	45:PF:371:SER:HB3	2.48	0.49
44:PG:256:GLN:OE1	45:PJ:397:TRP:HZ2	1.95	0.49
45:PH:110:ALA:O	45:PH:113:ILE:HG22	2.12	0.49
44:PI:88:HIS:HB3	44:PI:91:GLN:OE1	2.12	0.49
44:PI:301:MET:HE3	44:PI:307:PRO:HG3	1.95	0.49
44:PI:311:LYS:CE	44:PI:342:GLN:HG3	2.41	0.49
44:PI:320:ARG:NH2	44:PI:360:PRO:HA	2.27	0.49
45:PJ:226:ASN:HA	45:PJ:229:VAL:HG12	1.93	0.49
45:PJ:382:ALA:O	45:PJ:386:THR:HG23	2.12	0.49
44:PK:306:ASP:O	44:PK:383:ALA:HB1	2.12	0.49
45:PL:99:ASN:HA	45:PL:142:GLY:HA3	1.95	0.49
45:PL:102:ALA:HB2	45:PL:403:MET:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:6:SER:CB	44:PM:136:LEU:HB2	2.42	0.49
44:PM:67:PHE:O	44:PM:93:ILE:N	2.44	0.49
44:PM:318:MET:SD	44:PM:376:CYS:HB3	2.52	0.49
45:QB:28:HIS:CE1	45:QB:43:GLN:O	2.65	0.49
45:QB:347:ASN:HB3	44:QC:178:SER:OG	2.12	0.49
44:QC:269:LEU:HD12	44:QC:301:MET:SD	2.53	0.49
44:QE:206:ASN:OD1	46:QE:501:GTP:N2	2.40	0.49
45:QF:280:GLN:OE1	45:QF:280:GLN:N	2.45	0.49
44:QG:164:LYS:NZ	44:QG:165:SER:OG	2.44	0.49
45:QH:164:MET:HB2	45:QH:197:ASP:CB	2.42	0.49
44:QI:141:VAL:O	44:QI:147:SER:HB3	2.11	0.49
45:QJ:171:PRO:HB2	45:QJ:181:GLU:OE1	2.12	0.49
45:QL:187:LEU:HD11	45:QL:408:PHE:CZ	2.48	0.49
45:QL:238:CYS:HB2	45:QL:318:ARG:CD	2.42	0.49
45:QL:324:LYS:HE2	44:QM:210:TYR:HB3	1.94	0.49
45:QN:168:SER:O	45:QN:202:ILE:N	2.46	0.49
45:QN:319:GLY:CA	45:QN:357:PRO:HD3	2.40	0.49
45:QN:372:THR:HA	45:QN:422:TYR:CE2	2.34	0.49
44:RA:175:PRO:HG2	44:RA:304:LYS:HG3	1.95	0.49
44:RA:344:VAL:CG1	44:RA:347:CYS:HB3	2.43	0.49
44:RC:250:VAL:CG1	44:RC:254:GLU:HB2	2.41	0.49
45:RD:234:SER:HA	45:RD:237:THR:HG22	1.93	0.49
45:RD:293:MET:HE3	45:RD:367:PHE:CA	2.43	0.49
45:RD:317:PHE:HB3	45:RD:321:MET:CE	2.42	0.49
44:RE:23:LEU:CD2	44:RE:233:GLN:HA	2.42	0.49
44:RE:177:VAL:HB	44:RE:207:GLU:HB2	1.94	0.49
44:RE:191:THR:CA	44:RE:194:LEU:HG	2.39	0.49
44:RE:291:ILE:HG13	44:RE:292:THR:N	2.26	0.49
45:RF:15:GLN:HG3	48:RF:501:GDP:O6	2.12	0.49
45:RF:396:HIS:CD2	45:RF:397:TRP:HD1	2.30	0.49
44:RG:15:GLN:O	44:RG:19:ALA:N	2.38	0.49
44:RG:269:LEU:HD13	44:RG:305:CYS:CB	2.31	0.49
45:RH:42:LEU:CA	45:RH:45:GLU:HG3	2.31	0.49
45:RH:123:GLU:HA	45:RH:123:GLU:OE1	2.11	0.49
44:RI:204:LEU:HD22	44:RI:302:MET:HE2	1.94	0.49
45:RJ:74:ASP:O	45:RJ:77:ARG:NE	2.45	0.49
44:RK:389:SER:O	44:RK:392:ASP:HB3	2.13	0.49
45:RL:133:PHE:HB2	45:RL:164:MET:SD	2.52	0.49
45:RL:286:VAL:HB	45:RL:287:PRO:HD3	1.94	0.49
44:RM:258:ASN:ND2	45:RN:178:THR:HG23	2.27	0.49
45:RN:30:ILE:HG12	45:RN:51:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:228:ASN:O	44:SA:231:ILE:HB	2.13	0.49
45:SD:73:MET:HB2	45:SD:90:PHE:CE1	2.47	0.49
44:SE:32:PRO:HB3	44:SE:83:TYR:CE1	2.47	0.49
45:SH:72:THR:C	45:SH:76:VAL:HG13	2.33	0.49
45:SH:112:LEU:O	45:SH:112:LEU:HD23	2.12	0.49
45:SH:324:LYS:HG3	44:SI:210:TYR:CG	2.45	0.49
45:SJ:4:ILE:HG12	45:SJ:50:TYR:HE1	1.78	0.49
45:SJ:70:PRO:O	45:SJ:74:ASP:HB2	2.12	0.49
45:SJ:318:ARG:HG2	45:SJ:354:CYS:SG	2.52	0.49
45:SL:42:LEU:HA	45:SL:45:GLU:OE2	2.13	0.49
45:SL:257:LEU:HD11	45:SL:314:SER:HB3	1.94	0.49
45:SL:287:PRO:HA	45:SL:290:THR:HG22	1.94	0.49
45:SL:319:GLY:HA3	45:SL:363:MET:SD	2.52	0.49
44:SM:106:GLY:HA3	44:SM:149:LEU:HD22	1.92	0.49
44:SM:402:ARG:O	44:SM:405:VAL:HG23	2.12	0.49
44:TA:54:SER:HB3	44:TA:64:ARG:NH2	2.26	0.49
44:TA:70:LEU:HD13	44:TA:110:ILE:CD1	2.42	0.49
44:TA:89:PRO:HG3	44:UA:280:LYS:CG	2.43	0.49
44:TC:210:TYR:HE1	44:TC:227:LEU:CD1	2.22	0.49
44:TC:210:TYR:O	44:TC:213:CYS:HB2	2.12	0.49
44:TC:215:ARG:NH2	44:TC:300:ASN:HA	2.28	0.49
44:TC:247:ALA:HB2	44:TC:357:TYR:OH	2.12	0.49
45:TD:289:LEU:HD22	45:TD:365:VAL:CG2	2.42	0.49
44:TE:89:PRO:HB3	44:UE:280:LYS:NZ	2.28	0.49
44:TE:200:VAL:HG13	44:TE:268:MET:CE	2.42	0.49
45:TF:173:PRO:HG3	45:TF:380:ARG:HD2	1.93	0.49
45:TF:248:SER:OG	45:TF:252:LYS:HD2	2.12	0.49
45:TH:12:CYS:HB2	48:TH:501:GDP:N9	2.28	0.49
45:TH:292:GLN:HA	45:TH:295:ASP:HB2	1.94	0.49
45:TH:419:VAL:O	45:TH:423:GLN:HG3	2.13	0.49
44:TI:119:LEU:HA	44:TI:122:ILE:HB	1.93	0.49
44:TI:135:PHE:CD2	44:TI:166:LYS:HG2	2.47	0.49
45:TJ:70:PRO:O	45:TJ:74:ASP:HB2	2.12	0.49
45:TJ:181:GLU:N	45:TJ:182:PRO:HD2	2.27	0.49
45:TJ:255:VAL:CG2	44:TK:100:ALA:HB1	2.41	0.49
45:TJ:257:LEU:HD21	45:TJ:368:VAL:O	2.12	0.49
44:TK:1:MET:HE3	45:TL:70:PRO:HG2	1.94	0.49
44:TK:6:SER:C	44:TK:7:ILE:HD13	2.32	0.49
45:TL:24:ILE:HG22	45:TL:28:HIS:HD2	1.76	0.49
45:TL:99:ASN:HA	45:TL:142:GLY:CA	2.43	0.49
45:TL:99:ASN:HA	45:TL:142:GLY:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:268:MET:HE1	44:TM:379:SER:C	2.32	0.49
45:TN:278:SER:HG	45:TN:281:TYR:HB2	1.76	0.49
44:UA:11:GLN:HE22	44:UA:74:VAL:HG11	1.77	0.49
45:UB:2:ARG:C	45:UB:131:GLN:HB2	2.33	0.49
45:UB:174:LYS:CD	45:UB:175:VAL:HG13	2.42	0.49
45:UB:240:LEU:CD1	45:UB:250:LEU:HG	2.39	0.49
44:UC:207:GLU:CD	44:UC:304:LYS:HZ1	2.16	0.49
45:UD:331:LEU:HD22	44:UE:177:VAL:CG2	2.42	0.49
44:UE:122:ILE:O	44:UE:125:LEU:HB2	2.12	0.49
44:UE:183:GLU:HG2	44:UE:184:PRO:N	2.28	0.49
45:UF:127:CYS:SG	45:UF:130:LEU:HB2	2.52	0.49
45:UF:211:CYS:HB3	45:UF:217:LEU:HD21	1.95	0.49
45:UH:3:GLU:CD	45:UH:129:CYS:H	2.15	0.49
45:UJ:61:PRO:HD2	45:UJ:84:LEU:HB3	1.94	0.49
45:UJ:139:LEU:HA	45:UJ:145:SER:HB3	1.95	0.49
45:UJ:161:ASP:OD1	45:UJ:162:ARG:N	2.45	0.49
45:UJ:296:ALA:CA	45:UJ:299:MET:HE1	2.42	0.49
45:UL:20:PHE:O	45:UL:23:VAL:N	2.46	0.49
44:UM:425:LEU:CD2	44:UM:428:LEU:HD23	2.43	0.49
45:UN:20:PHE:CZ	45:UN:24:ILE:HD11	2.47	0.49
45:UN:205:GLU:HA	45:UN:205:GLU:OE2	2.11	0.49
44:VA:138:PHE:HE1	44:VA:169:PHE:CD2	2.31	0.49
44:VA:261:PRO:HA	45:VD:394:PHE:CD2	2.47	0.49
45:VB:36:TYR:CE1	45:VB:44:LEU:HG	2.47	0.49
44:VC:319:TYR:CD2	44:VC:375:VAL:HB	2.47	0.49
44:VE:139:ASN:OD1	44:VE:170:THR:HG22	2.12	0.49
45:VF:61:PRO:HD3	45:VF:84:LEU:HB3	1.95	0.49
45:VF:171:PRO:HD2	45:VF:185:ALA:HB2	1.95	0.49
45:VF:296:ALA:HA	45:VF:305:PRO:CG	2.42	0.49
45:VF:376:GLU:CG	45:VF:380:ARG:HH21	2.24	0.49
44:VG:188:ILE:O	44:VG:191:THR:HG22	2.13	0.49
45:VH:103:LYS:HG3	45:VH:108:GLU:OE1	2.12	0.49
45:VH:130:LEU:HG	45:VH:162:ARG:HD3	1.95	0.49
44:VI:93:ILE:HG12	44:VI:117:LEU:HB3	1.94	0.49
44:VI:271:SER:HB2	44:VI:377:MET:SD	2.53	0.49
45:VJ:213:ARG:HA	45:VJ:213:ARG:NE	2.26	0.49
44:VK:305:CYS:SG	44:VK:384:ILE:HA	2.53	0.49
45:VN:30:ILE:HD12	45:VN:36:TYR:HA	1.94	0.49
45:VN:316:LEU:O	45:VN:365:VAL:HG13	2.12	0.49
44:WA:10:GLY:O	44:WA:14:ILE:N	2.19	0.49
44:WA:243:ARG:HB2	44:WA:243:ARG:CZ	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:152:ILE:O	45:WB:156:ARG:HB2	2.13	0.49
44:WC:135:PHE:CZ	44:WC:157:LEU:HD13	2.47	0.49
45:WD:19:LYS:HA	45:WD:22:GLU:HB2	1.95	0.49
45:WD:131:GLN:HG2	45:WD:250:LEU:HD12	1.93	0.49
45:WF:2:ARG:NE	45:WF:240:LEU:HD11	2.28	0.49
45:WH:237:THR:HG23	45:WH:241:ARG:HH12	1.76	0.49
44:WI:88:HIS:HB3	44:WI:91:GLN:CG	2.43	0.49
44:WI:100:ALA:CB	45:WJ:251:ARG:HG2	2.43	0.49
44:WI:268:MET:HB3	44:WI:380:ASN:HB2	1.93	0.49
44:WK:296:PHE:CD2	44:WK:335:ILE:HD12	2.47	0.49
44:WK:346:TRP:CD1	45:WN:391:ARG:HG3	2.47	0.49
45:WL:302:ALA:HB3	45:WL:377:MET:CE	2.43	0.49
45:WN:286:VAL:HB	45:WN:287:PRO:HD3	1.94	0.49
3:OB:19:GLU:OE2	45:JH:216:LYS:NZ	2.45	0.49
3:OB:166:GLU:HG3	45:JJ:359:LYS:CE	2.42	0.49
2:1A:72:GLY:HA2	44:AE:221:ARG:O	2.11	0.49
8:1G:142:LYS:HD3	44:JA:85:GLN:NE2	2.27	0.49
9:1H:358:GLU:OE1	44:HA:370:LYS:HE2	2.13	0.49
21:1K:131:VAL:HG23	45:GF:33:THR:CG2	2.43	0.49
13:1T:127:GLU:H	44:AC:337:THR:CG2	2.24	0.49
14:1U:130:ILE:HD12	44:VC:42:ILE:HG21	1.94	0.49
32:2I:80:TYR:CD2	44:FE:119:LEU:HB3	2.47	0.49
24:3O:249:LYS:NZ	45:UN:276:ARG:HH21	2.10	0.49
12:3S:140:ARG:HH12	11:5Q:149:ILE:CG2	2.25	0.49
11:5Q:6:PHE:HE1	44:WK:120:ASP:OD2	1.96	0.49
35:5R:90:ARG:HG3	35:5R:90:ARG:O	2.11	0.49
36:5S:152:THR:CG2	36:5S:157:ILE:HD12	2.39	0.49
11:6Q:36:ARG:HG2	11:6Q:47:LEU:HA	1.93	0.49
11:6Q:112:THR:OG1	11:6Q:120:THR:O	2.12	0.49
35:6R:470:PHE:CE2	45:EN:83:GLN:CG	2.80	0.49
35:7R:547:GLU:HA	35:7R:550:VAL:CG1	2.43	0.49
42:8N:267:UNK:O	42:8N:271:UNK:N	2.44	0.49
45:AB:203:ASP:OD1	45:AB:206:ALA:HB3	2.12	0.49
44:AC:24:PHE:HE1	44:AC:236:SER:HB2	1.76	0.49
44:AC:283:HIS:ND1	44:MC:88:HIS:HA	2.09	0.49
45:AD:117:LEU:HA	45:AD:120:VAL:CG1	2.42	0.49
45:AD:170:VAL:HG22	45:AD:171:PRO:HD2	1.94	0.49
45:AD:310:TYR:CE1	45:AD:371:SER:HB3	2.47	0.49
45:AF:72:THR:HG23	45:AF:73:MET:N	2.26	0.49
44:AG:6:SER:OG	44:AG:65:ALA:HB2	2.13	0.49
44:AG:93:ILE:HD12	44:AG:93:ILE:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:259:LEU:HD21	44:AG:316:SER:CB	2.43	0.49
44:AG:424:ASP:O	44:AG:428:LEU:N	2.38	0.49
45:AH:69:GLU:OE2	45:AH:72:THR:HG22	2.12	0.49
44:AI:200:VAL:HG13	44:AI:268:MET:SD	2.53	0.49
45:AJ:217:LEU:HD12	45:AJ:217:LEU:O	2.13	0.49
45:AL:3:GLU:OE2	45:AL:127:CYS:HB2	2.12	0.49
45:AL:238:CYS:SG	45:AL:318:ARG:NH2	2.85	0.49
44:AM:87:PHE:CB	44:AM:92:LEU:HD11	2.43	0.49
44:BA:5:ILE:HD12	44:BA:135:PHE:CE1	2.48	0.49
44:BA:206:ASN:OD1	44:BA:207:GLU:N	2.46	0.49
44:BC:242:LEU:HD21	44:BC:252:ILE:CD1	2.43	0.49
44:BE:31:GLN:HB3	44:BE:32:PRO:HD2	1.95	0.49
45:BF:286:VAL:HG23	45:BF:317:PHE:HE2	1.78	0.49
44:BG:102:ASN:CG	44:BG:105:ARG:HG3	2.33	0.49
44:BG:354:GLY:C	44:BG:355:ILE:HG13	2.32	0.49
45:BH:4:ILE:HG13	45:BH:5:VAL:N	2.27	0.49
45:BH:267:MET:HB2	45:BH:301:CYS:SG	2.52	0.49
44:BI:5:ILE:CD1	44:BI:132:LEU:HD11	2.43	0.49
45:BJ:103:LYS:HA	45:BJ:107:THR:HG1	1.77	0.49
45:BJ:249:ASP:OD1	45:BJ:252:LYS:N	2.37	0.49
45:BJ:382:ALA:HB2	45:BJ:415:MET:CE	2.43	0.49
44:BK:371:VAL:HG12	44:BK:373:ARG:H	1.78	0.49
45:BL:36:TYR:CE1	45:BL:44:LEU:HG	2.47	0.49
45:BL:169:VAL:O	45:BL:169:VAL:HG23	2.12	0.49
44:BM:237:SER:HA	44:BM:320:ARG:CZ	2.43	0.49
45:BN:4:ILE:CD1	45:BN:131:GLN:HB3	2.43	0.49
44:CA:9:VAL:CG1	44:CA:139:ASN:HB3	2.42	0.49
44:CA:28:HIS:HE1	44:CA:243:ARG:HH11	1.61	0.49
44:CA:437:ILE:O	44:CA:437:ILE:HG13	2.13	0.49
44:CE:269:LEU:HD21	44:CE:384:ILE:HD13	1.94	0.49
45:CF:6:HIS:HE2	45:CF:8:GLN:HB3	1.76	0.49
45:CF:106:TYR:O	45:CF:110:ALA:HB3	2.12	0.49
44:CG:350:GLY:CA	45:CH:179:VAL:HG12	2.40	0.49
44:CG:432:TYR:HA	44:CG:435:VAL:CG2	2.41	0.49
45:CH:342:VAL:CG1	45:CH:345:ILE:HG22	2.39	0.49
44:CI:88:HIS:ND1	44:CI:91:GLN:HB3	2.27	0.49
44:CI:104:ALA:HB2	44:CI:413:MET:HG2	1.93	0.49
44:CI:417:GLU:O	44:CI:420:GLU:HG2	2.12	0.49
44:CM:324:VAL:HG12	44:CM:326:LYS:HG3	1.95	0.49
45:CN:32:PRO:HA	45:CN:81:PHE:CD2	2.48	0.49
45:CN:161:ASP:OD1	45:CN:162:ARG:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:134:GLN:HA	45:DB:165:GLU:HB3	1.95	0.49
45:DB:193:VAL:HG21	45:DB:418:LEU:HD22	1.94	0.49
45:DB:324:LYS:H	44:DC:221:ARG:HH12	1.58	0.49
45:DB:344:TRP:O	44:DC:397:LEU:HB3	2.13	0.49
44:DC:103:PHE:CA	44:DC:144:GLY:HA2	2.42	0.49
44:DC:291:ILE:HG13	44:DC:292:THR:N	2.26	0.49
45:DD:344:TRP:HB3	45:DD:430:ALA:HB2	1.95	0.49
44:DE:23:LEU:CD2	44:DE:236:SER:HB2	2.43	0.49
44:DE:186:ASN:OD1	44:DE:187:SER:N	2.46	0.49
44:DE:224:TYR:HA	44:DE:227:LEU:HD12	1.94	0.49
44:DE:252:ILE:HA	44:DE:255:PHE:CD2	2.47	0.49
44:DG:183:GLU:HG2	44:DG:184:PRO:CD	2.42	0.49
44:DG:271:SER:HB2	44:DG:377:MET:CE	2.43	0.49
45:DH:271:ALA:CB	45:DH:272:PRO:CD	2.83	0.49
45:DH:368:VAL:HG13	45:DH:368:VAL:O	2.13	0.49
44:DI:313:MET:SD	44:DI:380:ASN:HB3	2.53	0.49
45:DJ:44:LEU:CD2	45:DJ:47:ILE:HG13	2.43	0.49
45:DJ:309:ARG:CZ	45:DJ:342:VAL:HG22	2.43	0.49
45:DL:322:SER:CB	44:DM:223:THR:HB	2.42	0.49
44:DM:98:ASP:OD1	44:DM:99:ALA:N	2.45	0.49
44:DM:151:SER:HG	44:DM:152:LEU:H	1.60	0.49
44:DM:251:ASP:HB2	44:DM:254:GLU:CG	2.35	0.49
45:DN:131:GLN:HE22	45:DN:251:ARG:HG2	1.76	0.49
44:EA:6:SER:C	44:EA:7:ILE:HD13	2.33	0.49
44:EA:175:PRO:HG2	44:EA:304:LYS:NZ	2.27	0.49
44:EA:284:GLU:O	44:EA:286:LEU:HD23	2.12	0.49
44:EC:174:SER:CB	44:EC:177:VAL:HB	2.42	0.49
45:ED:334:GLN:HG3	45:ED:341:PHE:HE2	1.76	0.49
44:EE:288:VAL:HG12	44:EE:373:ARG:HG3	1.93	0.49
44:EE:370:LYS:O	44:EE:370:LYS:HG3	2.12	0.49
45:EF:21:TRP:CH2	45:EF:61:PRO:HB3	2.46	0.49
45:EH:116:VAL:O	45:EH:119:VAL:HG22	2.13	0.49
45:EH:424:GLN:HA	45:EH:424:GLN:OE1	2.13	0.49
44:EI:138:PHE:HE1	44:EI:169:PHE:HD2	1.60	0.49
44:EI:326:LYS:HG2	45:EJ:220:PRO:HD2	1.93	0.49
45:EJ:167:PHE:CE2	45:EJ:233:MET:HE2	2.48	0.49
45:EJ:241:ARG:O	45:EJ:242:PHE:HD1	1.95	0.49
45:EJ:268:ILE:O	45:EJ:300:MET:HE3	2.12	0.49
44:EK:408:TYR:O	44:EK:413:MET:HB3	2.12	0.49
45:EN:152:ILE:HG23	45:EN:164:MET:HE2	1.93	0.49
45:EN:418:LEU:O	45:EN:422:TYR:N	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:91:GLN:CG	44:FA:121:ARG:HD2	2.42	0.49
44:FA:145:THR:O	44:FA:149:LEU:HD23	2.12	0.49
44:FA:175:PRO:HB3	44:FA:390:ARG:HD2	1.93	0.49
44:FA:191:THR:O	44:FA:195:LEU:N	2.45	0.49
44:FA:331:SER:O	44:FA:335:ILE:HG12	2.13	0.49
44:FA:386:GLU:HA	44:FA:389:SER:OG	2.12	0.49
44:FC:60:LYS:NZ	44:FC:85:GLN:O	2.39	0.49
45:FD:110:ALA:O	45:FD:113:ILE:HG22	2.13	0.49
45:FD:270:PHE:CE2	45:FD:273:LEU:HD21	2.48	0.49
45:FF:325:GLU:HB3	45:FF:329:GLN:HE22	1.77	0.49
44:FG:287:SER:HB3	44:FG:290:GLU:CG	2.43	0.49
45:FH:66:MET:SD	45:FH:151:LEU:HD13	2.53	0.49
45:FJ:399:THR:HA	45:FJ:403:MET:O	2.13	0.49
44:FK:288:VAL:CG1	44:FK:373:ARG:HH21	2.25	0.49
45:FL:110:ALA:HA	45:FL:113:ILE:HG22	1.92	0.49
45:FL:342:VAL:HG13	45:FL:345:ILE:HG22	1.93	0.49
44:FM:93:ILE:HD12	44:FM:93:ILE:H	1.77	0.49
44:FM:405:VAL:HG12	44:FM:409:VAL:HG21	1.94	0.49
44:FM:407:TRP:CH2	45:FN:258:ILE:HB	2.47	0.49
45:FN:46:ARG:HH21	45:FN:48:ASN:CB	2.24	0.49
44:GA:115:VAL:HG22	44:GA:119:LEU:CD2	2.42	0.49
45:GB:70:PRO:HG3	45:GB:92:PHE:CD1	2.47	0.49
45:GB:146:GLY:HA2	45:GB:149:THR:HG22	1.94	0.49
44:GC:431:ASP:O	44:GC:435:VAL:HG23	2.12	0.49
44:GE:267:PHE:O	44:GE:380:ASN:ND2	2.46	0.49
45:GF:65:LEU:HD21	45:GF:85:PHE:CE2	2.47	0.49
45:GF:65:LEU:HD21	45:GF:85:PHE:HE2	1.77	0.49
45:GF:72:THR:HG23	45:GF:73:MET:N	2.27	0.49
44:GG:277:SER:O	44:GG:281:ALA:N	2.46	0.49
44:GG:371:VAL:HG12	44:GG:373:ARG:H	1.77	0.49
45:GH:186:THR:OG1	45:GH:415:MET:HE3	2.13	0.49
45:GH:290:THR:HG21	45:GH:329:GLN:NE2	2.27	0.49
44:GI:143:GLY:O	44:GI:147:SER:OG	2.16	0.49
45:GJ:314:SER:HB3	45:GJ:368:VAL:HB	1.95	0.49
44:GK:1:MET:HE1	45:GN:92:PHE:HE2	1.77	0.49
44:GK:70:LEU:HD12	44:GK:145:THR:CB	2.43	0.49
44:GK:71:GLU:CD	44:GK:73:THR:H	2.14	0.49
44:GK:156:ARG:O	44:GK:159:VAL:HG12	2.13	0.49
45:GL:36:TYR:CZ	45:GL:38:GLY:HA3	2.48	0.49
45:GL:324:LYS:O	45:GL:328:GLU:HG2	2.12	0.49
45:GL:334:GLN:OE1	45:GL:334:GLN:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:261:PRO:HG2	44:GM:313:MET:SD	2.52	0.49
44:GM:269:LEU:CD1	44:GM:301:MET:HB3	2.43	0.49
45:GN:183:TYR:HB3	45:GN:398:TYR:HE2	1.77	0.49
44:HA:315:CYS:HB2	44:HA:379:SER:OG	2.13	0.49
45:HB:105:HIS:CD2	45:HB:150:LEU:HB2	2.47	0.49
45:HB:163:ILE:HD11	45:HB:250:LEU:CB	2.42	0.49
44:HC:278:ALA:CA	44:HC:369:ALA:HB2	2.43	0.49
44:HE:135:PHE:HE2	44:HE:157:LEU:HD12	1.78	0.49
45:HF:337:ASN:O	45:HF:339:SER:N	2.46	0.49
44:HG:221:ARG:N	44:HG:222:PRO:HD3	2.28	0.49
45:HH:133:PHE:O	45:HH:165:GLU:N	2.45	0.49
45:HH:239:CYS:HA	45:HH:354:CYS:SG	2.52	0.49
45:HH:248:SER:HA	45:HH:252:LYS:HD2	1.93	0.49
44:HI:287:SER:O	44:HI:290:GLU:HG2	2.13	0.49
45:HL:4:ILE:HG22	45:HL:132:GLY:H	1.77	0.49
44:HM:9:VAL:CG1	44:HM:139:ASN:HB3	2.41	0.49
45:HN:65:LEU:HD11	45:HN:85:PHE:CE2	2.48	0.49
45:HN:389:PHE:O	45:HN:391:ARG:N	2.46	0.49
44:IA:108:TYR:HE2	44:IA:413:MET:HA	1.78	0.49
44:IA:180:ALA:HB1	45:IB:256:ASN:OD1	2.12	0.49
44:IA:270:SER:HB2	44:IA:378:ILE:HD13	1.95	0.49
44:IA:318:MET:SD	44:IA:354:GLY:HA3	2.53	0.49
45:IB:154:LYS:O	45:IB:157:GLU:N	2.43	0.49
45:IB:309:ARG:H	45:IB:372:THR:HG1	1.55	0.49
44:IC:210:TYR:CD2	45:ID:324:LYS:HG3	2.47	0.49
44:IC:221:ARG:HE	45:ID:321:MET:CE	2.24	0.49
45:ID:252:LYS:HE2	46:ID:501:GTP:O2G	2.13	0.49
45:ID:268:ILE:HA	45:ID:367:PHE:O	2.13	0.49
44:IE:239:THR:HA	44:IE:242:LEU:HD13	1.95	0.49
45:IF:86:ARG:HH21	45:IF:87:PRO:CD	2.26	0.49
45:IF:282:ARG:HG2	45:IF:283:ALA:N	2.27	0.49
44:II:8:HIS:HD2	44:II:138:PHE:HB2	1.78	0.49
44:II:36:MET:CG	44:II:37:PRO:HD2	2.13	0.49
44:IK:102:ASN:OD1	44:IK:105:ARG:N	2.39	0.49
44:IK:184:PRO:HG2	44:IK:398:MET:CE	2.43	0.49
44:IK:189:LEU:HD21	44:IK:418:PHE:CE1	2.47	0.49
45:IL:203:ASP:OD2	45:IL:302:ALA:N	2.36	0.49
45:IL:354:CYS:SG	45:IL:355:ASP:N	2.85	0.49
45:IL:392:LYS:HG3	45:IL:395:LEU:HD23	1.94	0.49
44:IM:188:ILE:HA	44:IM:191:THR:HB	1.93	0.49
44:IM:272:TYR:HA	44:IM:376:CYS:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:275:ILE:HD12	44:IM:368:LEU:HD11	1.94	0.49
45:IN:3:GLU:HB3	45:IN:49:VAL:HA	1.95	0.49
45:JB:169:VAL:HA	45:JB:202:ILE:O	2.12	0.49
44:JC:331:SER:O	44:JC:335:ILE:CD1	2.59	0.49
44:JC:350:GLY:HA2	45:JF:179:VAL:HG12	1.95	0.49
44:JE:155:GLU:OE2	44:JE:197:HIS:NE2	2.45	0.49
44:JE:245:ASP:OD1	44:JE:246:GLY:N	2.46	0.49
45:JF:211:CYS:SG	45:JF:225:LEU:HD23	2.52	0.49
44:JG:72:PRO:HD2	45:JH:2:ARG:HH22	1.78	0.49
44:JG:121:ARG:O	44:JG:125:LEU:HD23	2.12	0.49
44:JG:183:GLU:CG	44:JG:184:PRO:HD3	2.43	0.49
45:JJ:103:LYS:O	45:JJ:108:GLU:HB2	2.13	0.49
44:JK:188:ILE:HG13	44:JK:189:LEU:H	1.77	0.49
44:JK:417:GLU:O	44:JK:420:GLU:HB2	2.12	0.49
45:JL:73:MET:HE3	45:JL:92:PHE:CB	2.41	0.49
44:JM:7:ILE:CB	44:JM:137:VAL:HG12	2.41	0.49
44:JM:158:SER:O	44:JM:162:GLY:HA2	2.13	0.49
45:JN:5:VAL:HG23	45:JN:62:ARG:HD3	1.93	0.49
45:JN:170:VAL:CG2	45:JN:171:PRO:HD2	2.42	0.49
44:KA:272:TYR:HD2	44:KA:275:ILE:HD11	1.75	0.49
45:KB:210:ILE:HG21	45:KB:228:LEU:CD2	2.41	0.49
45:KB:238:CYS:SG	45:KB:316:LEU:HD23	2.53	0.49
45:KB:314:SER:OG	45:KB:368:VAL:HB	2.12	0.49
45:KB:322:SER:HB3	45:KB:325:GLU:OE1	2.12	0.49
44:KC:107:HIS:HD2	44:KC:152:LEU:CD2	2.25	0.49
44:KC:195:LEU:O	44:KC:266:HIS:NE2	2.37	0.49
45:KD:58:ARG:NH1	45:KD:60:VAL:HG22	2.28	0.49
45:KF:60:VAL:CG1	45:KF:86:ARG:HD3	2.27	0.49
45:KF:249:ASP:OD1	45:KF:252:LYS:HB2	2.12	0.49
45:KH:265:PHE:HB3	45:KH:374:ILE:HD13	1.94	0.49
44:KI:67:PHE:HB2	44:KI:92:LEU:CD2	2.42	0.49
45:KJ:32:PRO:HA	45:KJ:84:LEU:HD11	1.95	0.49
45:KJ:130:LEU:HD12	45:KJ:131:GLN:H	1.76	0.49
44:KK:244:PHE:CE1	44:KK:358:GLN:HG2	2.47	0.49
44:KM:174:SER:OG	44:KM:177:VAL:O	2.17	0.49
44:KM:307:PRO:HB2	44:KM:312:TYR:HE1	1.77	0.49
44:KM:406:HIS:CA	44:KM:409:VAL:HG12	2.41	0.49
45:KN:36:TYR:HE2	45:KN:44:LEU:HD13	1.74	0.49
45:KN:251:ARG:CZ	45:KN:251:ARG:HB3	2.41	0.49
45:LD:7:ILE:HD11	45:LD:135:ILE:HD12	1.94	0.49
45:LD:252:LYS:HG2	45:LD:350:LYS:HZ1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:415:MET:O	45:LD:419:VAL:HG23	2.13	0.49
44:LG:20:CYS:O	44:LG:23:LEU:HB3	2.13	0.49
45:LH:278:SER:OG	45:LH:282:ARG:HD3	2.12	0.49
44:LI:11:GLN:HG3	44:LI:74:VAL:HG11	1.93	0.49
45:LJ:4:ILE:HD11	45:LJ:50:TYR:OH	2.11	0.49
45:LJ:186:THR:O	45:LJ:189:VAL:HG12	2.12	0.49
44:LK:208:ALA:O	44:LK:212:ILE:HG12	2.12	0.49
44:LM:271:SER:H	44:LM:377:MET:HB3	1.77	0.49
45:LN:64:ILE:HD12	45:LN:119:VAL:CG1	2.42	0.49
45:MD:127:CYS:SG	45:MD:130:LEU:HB2	2.52	0.49
45:MD:186:THR:HG23	45:MD:187:LEU:N	2.27	0.49
45:MF:199:CYS:O	45:MF:265:PHE:HA	2.13	0.49
45:ML:42:LEU:CD1	45:ML:356:ILE:HD11	2.40	0.49
44:MM:155:GLU:HG2	44:MM:197:HIS:NE2	2.27	0.49
44:MM:316:SER:O	44:MM:377:MET:HA	2.13	0.49
45:MN:31:ASP:OD2	45:MN:37:HIS:ND1	2.46	0.49
44:NA:20:CYS:HB2	44:NA:235:ILE:HD11	1.95	0.49
45:NB:228:LEU:O	45:NB:231:ALA:HB3	2.13	0.49
44:NC:315:CYS:SG	44:NC:379:SER:HB2	2.53	0.49
45:ND:186:THR:HG23	45:ND:415:MET:HE2	1.94	0.49
44:NG:274:PRO:HD2	44:NG:374:ALA:HA	1.93	0.49
44:NI:129:CYS:HB2	44:NI:132:LEU:CD2	2.40	0.49
44:NI:174:SER:CB	44:NI:207:GLU:HB2	2.42	0.49
45:NJ:6:HIS:HB3	45:NJ:63:ALA:CB	2.43	0.49
45:NJ:80:PRO:O	45:NJ:80:PRO:CD	2.58	0.49
44:NK:349:THR:OG1	45:NN:176:SER:HB2	2.13	0.49
45:NL:211:CYS:HA	45:NL:215:LEU:HD13	1.93	0.49
44:NM:204:LEU:HD22	44:NM:302:MET:HE3	1.94	0.49
45:NN:45:GLU:HB3	45:NN:46:ARG:NH2	2.28	0.49
44:OA:284:GLU:HG3	44:OA:286:LEU:H	1.77	0.49
44:OC:223:THR:HG23	44:OC:225:THR:H	1.78	0.49
44:OC:326:LYS:HZ1	45:OF:220:PRO:CG	2.25	0.49
45:OD:105:HIS:CE1	45:OD:150:LEU:HD13	2.47	0.49
45:OD:216:LYS:HB2	45:OD:275:SER:CB	2.42	0.49
45:OD:253:LEU:O	45:OD:257:LEU:HD13	2.12	0.49
45:OD:398:TYR:HB3	45:OD:403:MET:HG2	1.95	0.49
44:OE:67:PHE:O	44:OE:68:LEU:HD22	2.12	0.49
44:OE:93:ILE:HD11	44:OE:121:ARG:CG	2.43	0.49
44:OE:434:GLU:O	44:OE:437:ILE:HG22	2.11	0.49
45:OH:200:MET:HE2	45:OH:268:ILE:HG23	1.94	0.49
45:OH:267:MET:SD	45:OH:301:CYS:SG	3.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:311:LEU:CD1	45:OH:372:THR:HG23	2.42	0.49
44:OI:203:MET:N	44:OI:268:MET:O	2.45	0.49
45:OJ:73:MET:SD	45:OJ:92:PHE:HB3	2.53	0.49
45:OJ:386:THR:O	45:OJ:390:ARG:CD	2.59	0.49
44:OK:188:ILE:HG13	44:OK:425:LEU:HG	1.94	0.49
45:OL:113:ILE:CD1	45:OL:150:LEU:HD22	2.42	0.49
44:OM:9:VAL:HG11	44:OM:150:GLY:CA	2.42	0.49
44:OM:72:PRO:HD2	45:ON:2:ARG:HH12	1.76	0.49
45:ON:63:ALA:O	45:ON:89:ASN:ND2	2.38	0.49
45:ON:289:LEU:HD21	45:ON:363:MET:CB	2.42	0.49
45:ON:299:MET:HE3	45:ON:305:PRO:HG3	1.94	0.49
45:PB:274:THR:HG21	45:PB:279:GLN:HG3	1.95	0.49
44:PC:435:VAL:HG23	45:PF:391:ARG:NH2	2.27	0.49
45:PD:374:ILE:HD11	45:PD:422:TYR:CZ	2.47	0.49
45:PF:18:ALA:HA	45:PF:21:TRP:HE3	1.78	0.49
45:PF:236:VAL:HG23	45:PF:253:LEU:CD2	2.42	0.49
44:PG:141:VAL:HG22	44:PG:187:SER:HA	1.93	0.49
45:PJ:119:VAL:HG23	45:PJ:122:LYS:HZ3	1.77	0.49
45:PL:6:HIS:HE1	45:PL:136:THR:CG2	2.24	0.49
44:PM:237:SER:HA	44:PM:320:ARG:NH1	2.27	0.49
45:PN:42:LEU:HB3	45:PN:242:PHE:CE1	2.47	0.49
45:PN:135:ILE:O	45:PN:166:THR:HA	2.12	0.49
45:PN:310:TYR:CD1	45:PN:371:SER:HB2	2.46	0.49
45:PN:334:GLN:HE22	45:PN:347:ASN:HD22	1.61	0.49
45:QB:3:GLU:HG3	45:QB:62:ARG:HH12	1.77	0.49
45:QB:6:HIS:CD2	45:QB:8:GLN:HB2	2.47	0.49
44:QC:269:LEU:HD12	44:QC:301:MET:CG	2.42	0.49
44:QC:329:ASN:O	44:QC:333:ALA:N	2.33	0.49
45:QD:113:ILE:HD12	45:QD:150:LEU:HD22	1.94	0.49
45:QD:167:PHE:HA	45:QD:200:MET:HB2	1.95	0.49
45:QD:341:PHE:HD2	45:QD:348:ASN:HD21	1.60	0.49
44:QE:238:LEU:HD23	44:QE:238:LEU:C	2.33	0.49
45:QF:289:LEU:HD11	45:QF:363:MET:HB3	1.95	0.49
45:QF:325:GLU:O	45:QF:329:GLN:HG2	2.13	0.49
44:QI:123:ARG:O	44:QI:127:ASP:N	2.31	0.49
44:QI:210:TYR:CE1	44:QI:227:LEU:HD11	2.48	0.49
45:QJ:12:CYS:CB	45:QJ:138:SER:HB2	2.39	0.49
45:QJ:14:ASN:CB	45:QJ:73:MET:HB3	2.40	0.49
45:QJ:21:TRP:HA	45:QJ:21:TRP:CE3	2.48	0.49
45:QJ:107:THR:CG2	45:QJ:401:GLU:HB3	2.43	0.49
45:QL:257:LEU:HB3	45:QL:266:PHE:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:30:ILE:CG2	45:RB:34:GLY:HA2	2.42	0.49
45:RB:52:ASN:HB2	45:RB:60:VAL:HG13	1.95	0.49
45:RB:67:ASP:OD1	45:RB:68:LEU:N	2.46	0.49
45:RB:406:MET:O	45:RB:410:GLU:HG3	2.12	0.49
44:RC:270:SER:CB	44:RC:378:ILE:HD13	2.42	0.49
45:RD:52:ASN:ND2	45:RD:62:ARG:HB3	2.26	0.49
44:RE:28:HIS:NE2	44:RE:243:ARG:HD2	2.27	0.49
44:RE:166:LYS:HE2	44:RE:199:ASP:H	1.78	0.49
44:RE:287:SER:HB3	44:RE:290:GLU:HG2	1.94	0.49
44:RG:157:LEU:HB3	44:RG:166:LYS:NZ	2.27	0.49
44:RG:363:VAL:O	44:RG:363:VAL:HG23	2.13	0.49
45:RH:1:MET:HE3	44:RI:72:PRO:HG2	1.95	0.49
45:RH:113:ILE:HG13	45:RH:116:VAL:CG1	2.42	0.49
45:RH:207:LEU:HD21	45:RH:300:MET:HE1	1.95	0.49
45:RL:112:LEU:O	45:RL:112:LEU:HD23	2.13	0.49
45:RL:314:SER:HA	45:RL:350:LYS:H	1.76	0.49
44:RM:9:VAL:CB	44:RM:153:LEU:HD11	2.42	0.49
44:RM:109:THR:HG22	44:RM:110:ILE:HG23	1.93	0.49
45:RN:6:HIS:O	45:RN:64:ILE:N	2.46	0.49
45:RN:9:GLY:HA2	45:RN:66:MET:O	2.13	0.49
44:SA:31:GLN:NE2	44:SA:37:PRO:HB3	2.28	0.49
44:SA:109:THR:HG22	44:SA:110:ILE:HG23	1.93	0.49
44:SA:285:GLN:O	44:SA:286:LEU:HB2	2.12	0.49
44:SA:353:VAL:HG12	45:SB:177:ASP:HA	1.95	0.49
45:SB:25:SER:O	45:SB:27:GLU:N	2.46	0.49
45:SB:246:LEU:HD21	46:SC:501:GTP:C8	2.43	0.49
45:SB:265:PHE:HB2	45:SB:374:ILE:CD1	2.42	0.49
44:SC:223:THR:HG23	44:SC:225:THR:N	2.22	0.49
44:SC:238:LEU:HD23	44:SC:238:LEU:O	2.12	0.49
45:SD:186:THR:HG21	45:SD:412:GLU:OE1	2.12	0.49
45:SD:268:ILE:HB	45:SD:367:PHE:O	2.12	0.49
44:SE:318:MET:C	44:SE:375:VAL:HG23	2.33	0.49
44:SE:385:ALA:HB2	44:SE:432:TYR:CD2	2.48	0.49
45:SF:106:TYR:CE2	45:SF:403:MET:HG2	2.48	0.49
44:SG:9:VAL:HG22	44:SG:146:GLY:HA2	1.93	0.49
44:SG:26:LEU:HD12	44:SG:26:LEU:O	2.13	0.49
44:SG:88:HIS:ND1	44:SG:89:PRO:HD2	2.27	0.49
45:SH:295:ASP:OD1	45:SH:297:LYS:HG2	2.11	0.49
45:SH:324:LYS:CE	44:SI:210:TYR:HB3	2.30	0.49
44:SI:326:LYS:HE3	44:SI:327:ASP:OD2	2.13	0.49
45:SJ:304:ASP:OD2	45:SJ:307:HIS:NE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:103:PHE:O	44:SK:106:GLY:N	2.45	0.49
44:SK:390:ARG:HG3	44:SK:391:LEU:N	2.27	0.49
44:SM:317:MET:HA	44:SM:377:MET:HA	1.93	0.49
45:SN:314:SER:N	45:SN:368:VAL:O	2.39	0.49
44:TA:216:ASN:HB3	44:TA:275:ILE:O	2.12	0.49
45:TB:252:LYS:HA	45:TB:255:VAL:CG2	2.43	0.49
44:TC:122:ILE:HG22	44:TC:161:TYR:OH	2.12	0.49
45:TD:130:LEU:HD21	45:TD:133:PHE:CE1	2.47	0.49
44:TE:184:PRO:HB3	44:TE:394:LYS:NZ	2.27	0.49
45:TF:36:TYR:HE1	45:TF:44:LEU:HG	1.73	0.49
45:TF:159:TYR:CD2	45:TF:162:ARG:HG3	2.47	0.49
45:TF:256:ASN:OD1	44:TG:181:VAL:HG22	2.12	0.49
45:TF:270:PHE:HD2	45:TF:273:LEU:HD21	1.78	0.49
44:TG:175:PRO:HG3	44:TG:390:ARG:CZ	2.42	0.49
44:TG:183:GLU:HG2	44:TG:184:PRO:N	2.28	0.49
44:TI:93:ILE:HD12	44:TI:93:ILE:H	1.77	0.49
44:TI:312:TYR:O	44:TI:344:VAL:HB	2.11	0.49
45:TJ:11:GLN:O	45:TJ:14:ASN:N	2.44	0.49
44:TK:22:GLU:HG3	44:TK:83:TYR:CE2	2.47	0.49
44:TM:313:MET:N	44:TM:380:ASN:O	2.38	0.49
45:TN:85:PHE:O	45:TN:87:PRO:HD3	2.13	0.49
45:TN:106:TYR:OH	45:TN:407:GLU:OE1	2.26	0.49
45:UB:42:LEU:HD22	45:UB:356:ILE:HD11	1.94	0.49
44:UC:203:MET:CG	44:UC:384:ILE:HD11	2.42	0.49
44:UE:103:PHE:CE2	44:UE:189:LEU:HD13	2.47	0.49
45:UF:163:ILE:HD12	45:UF:250:LEU:HG	1.94	0.49
45:UF:166:THR:HG21	45:UF:196:ALA:HB1	1.94	0.49
44:UG:209:ILE:HA	44:UG:212:ILE:CG1	2.43	0.49
44:UI:1:MET:HE1	45:UJ:94:GLN:HG3	1.94	0.49
45:UJ:99:ASN:OD1	45:UJ:178:THR:HG21	2.12	0.49
45:UJ:105:HIS:CD2	45:UJ:150:LEU:HB2	2.48	0.49
44:UK:387:VAL:HG12	44:UK:390:ARG:HH11	1.77	0.49
44:UM:211:ASP:O	44:UM:214:ARG:HG3	2.12	0.49
45:UN:229:VAL:HG12	45:UN:233:MET:CE	2.42	0.49
45:UN:245:GLN:C	45:UN:246:LEU:HD12	2.32	0.49
45:UN:329:GLN:O	45:UN:333:VAL:HG23	2.12	0.49
44:VA:3:GLU:OE2	44:VA:132:LEU:N	2.46	0.49
44:VA:370:LYS:HG3	44:VA:370:LYS:O	2.12	0.49
45:VB:4:ILE:HG13	45:VB:5:VAL:H	1.77	0.49
44:VC:21:TRP:CZ2	44:VC:65:ALA:HB2	2.47	0.49
44:VC:344:VAL:HG11	44:VC:346:TRP:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:209:ILE:CD1	44:VE:227:LEU:HD13	2.42	0.49
44:VE:210:TYR:CE1	44:VE:227:LEU:HD11	2.45	0.49
44:VE:311:LYS:HD2	44:VE:342:GLN:CG	2.42	0.49
44:VG:97:GLU:HG2	44:VG:105:ARG:HH22	1.77	0.49
44:VG:273:ALA:HB1	44:VG:274:PRO:HA	1.94	0.49
45:VH:151:LEU:HD23	45:VH:155:VAL:HG21	1.94	0.49
44:VI:71:GLU:OE1	44:VI:73:THR:HB	2.12	0.49
44:VI:88:HIS:ND1	44:VI:91:GLN:HG2	2.26	0.49
45:VJ:4:ILE:HG12	45:VJ:50:TYR:HE1	1.78	0.49
45:VJ:345:ILE:O	45:VJ:345:ILE:CG2	2.61	0.49
44:VK:166:LYS:C	44:VK:167:LEU:HD12	2.32	0.49
45:VL:393:ALA:O	45:VL:394:PHE:HB2	2.11	0.49
44:VM:70:LEU:HD13	44:VM:110:ILE:CD1	2.43	0.49
44:VM:101:ASN:HA	44:VM:144:GLY:CA	2.42	0.49
44:WA:20:CYS:HA	44:WA:232:ALA:CB	2.41	0.49
44:WA:71:GLU:OE1	44:WA:73:THR:OG1	2.16	0.49
44:WA:226:ASN:HA	44:WA:229:ARG:NH2	2.28	0.49
44:WA:326:LYS:HD2	44:WA:327:ASP:N	2.28	0.49
44:WC:404:PHE:CE2	45:WD:259:PRO:HA	2.47	0.49
45:WD:86:ARG:HB2	45:WD:89:ASN:CG	2.33	0.49
45:WD:167:PHE:HE2	45:WD:233:MET:HG3	1.77	0.49
44:WE:216:ASN:HB3	44:WE:275:ILE:O	2.12	0.49
45:WF:109:GLY:O	45:WF:113:ILE:N	2.46	0.49
44:WI:138:PHE:CE2	44:WI:235:ILE:HD11	2.48	0.49
44:WI:268:MET:HG3	44:WI:378:ILE:HG22	1.94	0.49
44:WI:306:ASP:OD1	44:WI:307:PRO:HD2	2.12	0.49
45:WL:248:SER:OG	45:WL:252:LYS:HD2	2.12	0.49
44:WM:269:LEU:HD12	44:WM:301:MET:HB3	1.95	0.49
45:WN:344:TRP:CZ2	45:WN:428:ALA:HB3	2.46	0.49
1:6H:174:MET:CE	45:FB:320:ARG:NH1	2.59	0.49
7:0F:107:GLN:OE1	44:EE:85:GLN:NE2	2.42	0.49
15:0V:70:THR:OG1	45:MN:337:ASN:ND2	2.30	0.49
5:1D:38:ILE:HD11	44:DG:84:ARG:NH1	2.26	0.49
18:1F:168:ARG:HB2	44:GK:96:LYS:CE	2.42	0.49
20:1J:273:TRP:NE1	45:IL:276:ARG:HG2	2.28	0.49
25:1P:395:GLN:CD	44:TA:362:VAL:HG21	2.33	0.49
12:1S:43:TYR:HE1	44:WC:124:LYS:HG2	1.76	0.49
30:2G:27:ILE:HG23	45:KJ:213:ARG:HD3	1.94	0.49
32:2I:85:THR:HB	44:FE:117:LEU:HD11	1.95	0.49
15:2V:61:PRO:HG3	44:LE:110:ILE:CG2	2.43	0.49
32:3I:261:PHE:CG	45:GJ:291:GLN:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3O:296:LYS:HG2	45:UL:360:GLY:HA2	1.94	0.49
16:4X:81:ARG:HD3	35:5R:15:HIS:ND1	2.25	0.49
37:5D:109:ASN:N	44:NM:279:GLU:C	2.55	0.49
11:5Q:164:ARG:HG3	11:5Q:165:ILE:N	2.27	0.49
41:6G:305:THR:CG2	45:UB:114:ASP:HB2	2.43	0.49
35:6R:353:ASP:O	35:6R:357:LYS:HG3	2.12	0.49
35:6R:557:ASP:OD2	35:6R:561:ARG:N	2.42	0.49
35:7R:105:GLU:HG2	45:BD:279:GLN:CG	2.41	0.49
35:7R:587:THR:HA	35:7R:590:ARG:HB3	1.95	0.49
43:8R:83:UNK:O	43:8R:87:UNK:N	2.46	0.49
44:AA:56:THR:HG23	44:AA:58:ALA:H	1.77	0.49
45:AB:47:ILE:HG13	45:AB:51:TYR:HB2	1.94	0.49
44:AC:16:VAL:HG21	44:AC:231:ILE:HG21	1.95	0.49
44:AC:101:ASN:HA	44:AC:144:GLY:CA	2.37	0.49
44:AC:398:MET:CE	45:AD:345:ILE:HG13	2.42	0.49
45:AD:201:VAL:O	45:AD:202:ILE:HD13	2.13	0.49
44:AE:118:CYS:O	44:AE:122:ILE:HG12	2.11	0.49
44:AG:66:VAL:HG13	44:AG:66:VAL:O	2.12	0.49
44:AG:66:VAL:HG23	44:AG:91:GLN:O	2.12	0.49
44:AG:231:ILE:O	44:AG:235:ILE:HG12	2.12	0.49
44:AG:258:ASN:HB3	45:AJ:179:VAL:HG22	1.95	0.49
44:AI:205:ASP:OD1	44:AI:303:ALA:HA	2.12	0.49
45:AJ:33:THR:O	45:AJ:58:ARG:NH2	2.46	0.49
45:AJ:140:GLY:O	45:AJ:184:ASN:ND2	2.44	0.49
45:AJ:268:ILE:CG2	45:AJ:368:VAL:HG22	2.43	0.49
45:AL:54:ALA:HB2	45:BL:283:ALA:HB2	1.94	0.49
44:BC:403:ALA:HA	45:BD:260:PHE:HE1	1.77	0.49
45:BD:211:CYS:HB3	45:BD:220:PRO:HG3	1.91	0.49
44:BE:11:GLN:H	46:BE:501:GTP:PB	2.36	0.49
45:BF:130:LEU:CG	45:BF:162:ARG:HD2	2.43	0.49
45:BF:289:LEU:HD12	45:BF:363:MET:HE3	1.95	0.49
45:BH:163:ILE:HD11	45:BH:250:LEU:CD1	2.42	0.49
45:BJ:19:LYS:HG2	45:BJ:226:ASN:HB3	1.93	0.49
45:BJ:60:VAL:HG23	45:BJ:84:LEU:O	2.13	0.49
45:BL:202:ILE:HG23	45:BL:300:MET:CE	2.40	0.49
44:BM:344:VAL:HG11	44:BM:346:TRP:NE1	2.28	0.49
45:BN:258:ILE:CD1	45:BN:264:HIS:HB3	2.43	0.49
45:BN:394:PHE:CA	45:BN:397:TRP:HZ3	2.12	0.49
44:CA:166:LYS:HE2	44:CA:197:HIS:O	2.12	0.49
45:CB:257:LEU:HD21	45:CB:368:VAL:HG23	1.94	0.49
44:CC:427:ALA:HA	44:CC:430:LYS:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:142:GLY:HA2	45:CD:184:ASN:HD22	1.78	0.49
45:CD:289:LEU:HD13	45:CD:365:VAL:HG23	1.95	0.49
44:CE:5:ILE:HG12	44:CE:64:ARG:HD3	1.94	0.49
45:CF:68:LEU:HD21	45:CF:147:MET:HE3	1.95	0.49
45:CH:209:ASP:O	45:CH:213:ARG:HG3	2.13	0.49
45:CH:213:ARG:HH22	45:CH:298:ASN:HA	1.74	0.49
44:CI:62:VAL:HG13	44:CI:62:VAL:O	2.12	0.49
44:CI:257:THR:HG21	45:CJ:98:GLY:O	2.13	0.49
44:CI:276:ILE:HG23	44:CI:281:ALA:HB2	1.94	0.49
44:CI:435:VAL:O	44:CI:435:VAL:HG12	2.13	0.49
45:CJ:167:PHE:CD1	45:CJ:200:MET:HB2	2.47	0.49
44:CM:98:ASP:O	44:CM:105:ARG:NH1	2.45	0.49
44:CM:192:HIS:HA	44:CM:195:LEU:HB2	1.94	0.49
45:CN:3:GLU:HA	45:CN:49:VAL:CG2	2.41	0.49
45:CN:257:LEU:HB3	45:CN:266:PHE:CZ	2.48	0.49
45:CN:425:TYR:O	45:CN:428:ALA:HB3	2.12	0.49
44:DA:214:ARG:NH1	44:DA:214:ARG:HA	2.28	0.49
44:DA:221:ARG:O	44:DA:221:ARG:HG3	2.13	0.49
44:DA:297:GLU:OE2	44:DA:300:ASN:ND2	2.46	0.49
44:DC:70:LEU:HA	44:DC:95:GLY:HA3	1.94	0.49
44:DC:105:ARG:O	44:DC:110:ILE:HG12	2.13	0.49
45:DD:255:VAL:HG21	44:DE:100:ALA:O	2.13	0.49
44:DE:9:VAL:HG12	44:DE:139:ASN:HB3	1.94	0.49
44:DE:244:PHE:CZ	44:DE:358:GLN:HG2	2.48	0.49
45:DF:239:CYS:CB	45:DF:354:CYS:HB2	2.42	0.49
44:DG:210:TYR:HH	44:DG:224:TYR:HE1	1.59	0.49
45:DH:44:LEU:HD23	45:DH:47:ILE:CD1	2.42	0.49
45:DH:270:PHE:CD2	45:DH:273:LEU:HD21	2.47	0.49
45:DJ:202:ILE:HD13	45:DJ:229:VAL:HG13	1.94	0.49
44:DK:30:ILE:HD13	44:DK:37:PRO:HG3	1.93	0.49
44:DK:313:MET:HG2	44:DK:314:ALA:N	2.28	0.49
45:DN:143:THR:HG23	45:DN:144:GLY:N	2.27	0.49
45:EB:20:PHE:HB2	45:EB:233:MET:CE	2.42	0.49
44:EE:174:SER:OG	44:EE:207:GLU:HB2	2.13	0.49
45:EF:46:ARG:O	45:EF:49:VAL:HG12	2.13	0.49
45:EH:4:ILE:CG2	45:EH:131:GLN:HB3	2.43	0.49
45:EH:263:LEU:HG	45:EH:422:TYR:CE1	2.47	0.49
44:EI:34:GLY:HA3	44:EI:60:LYS:CB	2.43	0.49
44:EI:306:ASP:OD1	44:EI:308:ARG:NE	2.45	0.49
45:EJ:61:PRO:CG	45:EJ:84:LEU:HB3	2.41	0.49
45:EJ:286:VAL:HB	45:EJ:363:MET:CE	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:217:LEU:HD13	44:EK:367:ASP:HB3	1.95	0.49
44:EK:301:MET:HB3	44:EK:303:ALA:O	2.12	0.49
45:EL:201:VAL:HG23	45:EL:301:CYS:SG	2.53	0.49
44:FA:31:GLN:CD	44:FA:37:PRO:HG3	2.32	0.49
44:FA:121:ARG:O	44:FA:125:LEU:HG	2.13	0.49
45:FB:114:ASP:O	45:FB:117:LEU:HB3	2.13	0.49
44:FC:13:GLY:O	44:FC:17:GLY:N	2.44	0.49
44:FC:145:THR:HG23	44:FC:149:LEU:CD2	2.37	0.49
44:FC:336:LYS:HZ1	44:FC:343:PHE:HE2	1.60	0.49
45:FD:398:TYR:HD2	45:FD:408:PHE:CZ	2.31	0.49
44:FE:3:GLU:CD	44:FE:129:CYS:HB3	2.32	0.49
44:FE:433:GLU:CD	44:FE:437:ILE:HD11	2.32	0.49
45:FF:101:TRP:CZ3	45:FF:187:LEU:HD13	2.47	0.49
44:FG:285:GLN:C	44:FG:286:LEU:HD12	2.33	0.49
45:FH:7:ILE:HD11	45:FH:120:VAL:CG2	2.41	0.49
45:FH:117:LEU:HA	45:FH:120:VAL:HG12	1.95	0.49
45:FH:308:GLY:HA3	45:FH:372:THR:OG1	2.12	0.49
45:FH:313:ALA:O	45:FH:349:ILE:HA	2.12	0.49
44:FI:175:PRO:HA	44:FI:390:ARG:HH21	1.77	0.49
44:FI:240:ALA:HB3	44:FI:320:ARG:HH22	1.78	0.49
44:FI:333:ALA:HA	44:FI:336:LYS:HZ3	1.76	0.49
44:FM:49:PHE:CD1	44:FM:53:PHE:HB2	2.43	0.49
44:FM:79:ARG:O	44:FM:84:ARG:HB3	2.12	0.49
44:FM:103:PHE:CD2	44:FM:189:LEU:HD13	2.47	0.49
45:FN:30:ILE:HD11	45:FN:47:ILE:HD11	1.95	0.49
45:FN:156:ARG:NH1	45:FN:160:PRO:O	2.46	0.49
44:GA:70:LEU:HD13	44:GA:110:ILE:HD11	1.94	0.49
44:GA:271:SER:HA	44:GA:302:MET:CE	2.42	0.49
44:GA:363:VAL:HG22	44:GA:364:PRO:HD2	1.94	0.49
45:GD:3:GLU:HG3	45:GD:127:CYS:HB2	1.95	0.49
45:GD:11:GLN:HG3	48:GD:503:GDP:PB	2.53	0.49
45:GD:309:ARG:NH2	45:GD:426:GLN:O	2.45	0.49
44:GE:98:ASP:OD1	44:GE:99:ALA:N	2.45	0.49
44:GE:181:VAL:HB	45:GF:342:VAL:O	2.13	0.49
45:GF:67:ASP:OD1	45:GF:68:LEU:N	2.46	0.49
45:GF:304:ASP:HB3	45:GF:307:HIS:CD2	2.48	0.49
44:GG:164:LYS:HE2	44:GG:164:LYS:HA	1.94	0.49
45:GH:236:VAL:HG22	45:GH:250:LEU:CD2	2.42	0.49
45:GJ:286:VAL:O	45:GJ:289:LEU:HB2	2.13	0.49
45:GJ:374:ILE:HD11	45:GJ:422:TYR:CZ	2.48	0.49
44:GK:51:THR:C	44:GK:52:PHE:HD1	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:101:TRP:CH2	45:GL:188:SER:HA	2.47	0.49
45:GL:325:GLU:HA	45:GL:328:GLU:CG	2.43	0.49
44:GM:230:LEU:CD1	44:GM:275:ILE:HD13	2.40	0.49
44:GM:320:ARG:HB3	44:GM:356:ASN:CB	2.38	0.49
44:HA:310:GLY:C	44:HA:311:LYS:HD3	2.32	0.49
45:HB:87:PRO:HA	45:HB:90:PHE:HD2	1.77	0.49
45:HB:143:THR:O	45:HB:147:MET:N	2.41	0.49
45:HB:286:VAL:O	45:HB:290:THR:N	2.40	0.49
44:HC:188:ILE:HD12	44:HC:425:LEU:HD12	1.94	0.49
44:HC:372:MET:HE3	44:HC:373:ARG:CZ	2.43	0.49
45:HF:3:GLU:OE2	45:HF:127:CYS:HB2	2.12	0.49
45:HF:142:GLY:N	48:HF:502:GDP:O2B	2.46	0.49
44:HG:60:LYS:NZ	44:HG:85:GLN:O	2.46	0.49
45:HH:117:LEU:O	45:HH:120:VAL:HG12	2.12	0.49
45:HJ:352:SER:O	45:HJ:353:ILE:HD13	2.12	0.49
44:HK:200:VAL:CG2	44:HK:256:GLN:HB3	2.43	0.49
45:HL:321:MET:HB3	45:HL:363:MET:CE	2.42	0.49
44:HM:104:ALA:O	44:HM:108:TYR:N	2.37	0.49
44:HM:212:ILE:CG2	44:HM:275:ILE:HD12	2.41	0.49
45:HN:113:ILE:CD1	45:HN:154:LYS:HD2	2.42	0.49
44:IA:311:LYS:C	44:IA:382:THR:HG23	2.33	0.49
45:IB:163:ILE:HD11	45:IB:250:LEU:HD12	1.94	0.49
45:IB:301:CYS:HB3	45:IB:377:MET:HE3	1.93	0.49
45:IB:309:ARG:HH2	45:IB:342:VAL:HG23	1.76	0.49
44:IC:122:ILE:HG22	44:IC:161:TYR:OH	2.13	0.49
45:ID:60:VAL:HG23	45:ID:84:LEU:O	2.12	0.49
44:IE:390:ARG:HG3	44:IE:391:LEU:HD12	1.94	0.49
44:IG:110:ILE:HG13	44:IG:111:GLY:N	2.28	0.49
45:IH:12:CYS:O	45:IH:16:ILE:HG12	2.12	0.49
45:IH:180:VAL:HG12	45:IH:180:VAL:O	2.13	0.49
45:IJ:55:THR:HB	44:JG:372:MET:HE1	1.94	0.49
44:IK:260:VAL:O	44:IK:260:VAL:HG23	2.13	0.49
45:IL:296:ALA:HA	45:IL:299:MET:CE	2.43	0.49
44:IM:79:ARG:C	44:IM:84:ARG:HG2	2.32	0.49
44:IM:102:ASN:CB	44:IM:105:ARG:HG3	2.42	0.49
45:JD:203:ASP:OD2	45:JD:301:CYS:HA	2.13	0.49
45:JD:283:ALA:C	45:JD:284:LEU:HD22	2.33	0.49
45:JH:24:ILE:HG22	45:JH:51:TYR:OH	2.12	0.49
44:JI:346:TRP:CE3	44:JI:347:CYS:HB2	2.47	0.49
44:JI:411:GLU:O	44:JI:411:GLU:HG3	2.13	0.49
44:JK:72:PRO:HD2	45:JL:2:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:349:THR:HG23	45:JN:176:SER:CB	2.24	0.49
45:JL:396:HIS:O	45:JL:399:THR:HG22	2.11	0.49
44:JM:5:ILE:CG2	44:JM:125:LEU:HD23	2.42	0.49
44:JM:76:ASP:OD2	45:JN:46:ARG:NH1	2.32	0.49
44:JM:221:ARG:HH22	45:JN:322:SER:H	1.61	0.49
44:JM:265:ILE:HG23	44:JM:432:TYR:CE1	2.47	0.49
44:JM:297:GLU:OE1	44:JM:297:GLU:N	2.38	0.49
44:JM:335:ILE:HA	44:JM:338:LYS:HZ3	1.77	0.49
45:JN:19:LYS:HG2	45:JN:227:HIS:HA	1.93	0.49
44:KA:257:THR:CA	45:KD:397:TRP:HH2	2.25	0.49
44:KA:318:MET:HB2	44:KA:376:CYS:HB3	1.95	0.49
44:KA:320:ARG:HG3	44:KA:360:PRO:HD3	1.93	0.49
45:KB:165:GLU:HG2	45:KB:198:GLU:OE1	2.13	0.49
45:KB:343:GLU:OE2	45:KB:429:THR:HA	2.13	0.49
44:KC:19:ALA:CB	44:KC:228:ASN:HB3	2.42	0.49
44:KC:174:SER:OG	44:KC:175:PRO:HD2	2.12	0.49
44:KC:261:PRO:HB3	44:KC:346:TRP:HH2	1.78	0.49
45:KD:251:ARG:O	45:KD:254:ALA:HB3	2.13	0.49
45:KF:251:ARG:O	45:KF:254:ALA:N	2.45	0.49
45:KF:329:GLN:OE1	45:KF:329:GLN:HA	2.13	0.49
45:KF:391:ARG:HH11	45:KF:391:ARG:HG3	1.78	0.49
45:KH:31:ASP:O	45:KH:34:GLY:N	2.41	0.49
44:KI:14:ILE:HD13	44:KI:75:ILE:CD1	2.43	0.49
45:KJ:313:ALA:HB3	45:KJ:349:ILE:HG22	1.95	0.49
44:KK:12:GLY:O	44:KK:16:VAL:HG22	2.13	0.49
45:KN:171:PRO:CG	45:KN:181:GLU:HG2	2.43	0.49
45:LB:130:LEU:HD21	45:LB:133:PHE:CE1	2.48	0.49
45:LB:180:VAL:CG2	45:LB:183:TYR:HB2	2.38	0.49
45:LB:259:PRO:HG3	45:LB:312:THR:HG23	1.94	0.49
45:LB:278:SER:HA	45:LB:281:TYR:CB	2.36	0.49
45:LB:286:VAL:N	45:LB:287:PRO:HD2	2.27	0.49
44:LC:69:ASP:OD2	44:LC:71:GLU:HG2	2.12	0.49
44:LE:14:ILE:HD13	44:LE:75:ILE:HD11	1.95	0.49
44:LG:13:GLY:O	44:LG:16:VAL:HG12	2.12	0.49
44:LG:270:SER:C	44:LG:301:MET:HE1	2.32	0.49
45:LH:3:GLU:HG3	45:LH:127:CYS:SG	2.53	0.49
44:LI:226:ASN:HA	44:LI:229:ARG:CG	2.41	0.49
44:LI:426:ALA:HA	44:LI:429:GLU:CD	2.32	0.49
45:LJ:305:PRO:HA	45:LJ:373:ALA:CB	2.42	0.49
45:LL:383:GLU:O	45:LL:386:THR:HG22	2.13	0.49
44:LM:110:ILE:HB	44:LM:113:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LM:145:THR:HG23	44:LM:146:GLY:N	2.28	0.49
44:LM:315:CYS:HA	44:LM:378:ILE:O	2.12	0.49
45:LN:9:GLY:O	45:LN:13:GLY:HA3	2.12	0.49
45:LN:174:LYS:HD3	45:LN:174:LYS:N	2.27	0.49
45:MB:8:GLN:NE2	45:MB:14:ASN:HA	2.26	0.49
45:MB:325:GLU:O	45:MB:328:GLU:HG2	2.12	0.49
45:MD:113:ILE:HD12	45:MD:150:LEU:HG	1.95	0.49
45:MD:264:HIS:O	45:MD:264:HIS:ND1	2.40	0.49
44:ME:295:ALA:CB	44:ME:377:MET:HE2	2.37	0.49
44:ME:402:ARG:HB2	44:ME:405:VAL:CG2	2.42	0.49
45:MF:395:LEU:HG	45:MF:399:THR:CG2	2.42	0.49
44:MG:328:VAL:HG21	44:MG:353:VAL:HG21	1.94	0.49
45:MH:208:TYR:CE1	45:MH:225:LEU:HD11	2.47	0.49
45:MH:412:GLU:O	45:MH:416:ASN:N	2.38	0.49
45:ML:305:PRO:HG2	45:ML:306:ARG:NH1	2.27	0.49
45:ML:317:PHE:HB2	45:ML:352:SER:O	2.13	0.49
44:MM:35:GLN:NE2	44:MM:60:LYS:HB3	2.28	0.49
44:MM:86:LEU:HD23	44:MM:87:PHE:CE2	2.47	0.49
44:MM:311:LYS:O	44:MM:382:THR:HG23	2.12	0.49
45:MN:12:CYS:O	45:MN:16:ILE:HG22	2.12	0.49
45:MN:395:LEU:HG	45:MN:399:THR:CG2	2.42	0.49
45:NB:117:LEU:CA	45:NB:120:VAL:HG12	2.43	0.49
44:NE:209:ILE:HG23	44:NE:302:MET:CE	2.42	0.49
44:NG:288:VAL:CA	44:NG:291:ILE:HG12	2.41	0.49
44:NI:209:ILE:HG22	44:NI:227:LEU:HD13	1.94	0.49
44:NI:320:ARG:HH11	44:NI:360:PRO:HG3	1.77	0.49
45:NJ:322:SER:O	45:NJ:326:VAL:HG23	2.13	0.49
45:NL:20:PHE:CA	45:NL:23:VAL:HG12	2.41	0.49
45:NL:334:GLN:HB2	45:NL:349:ILE:HD11	1.94	0.49
45:NN:312:THR:O	45:NN:370:ASN:N	2.46	0.49
45:NN:342:VAL:HG13	45:NN:345:ILE:HG22	1.95	0.49
44:OA:99:ALA:O	44:OA:105:ARG:HD3	2.12	0.49
45:OB:109:GLY:O	45:OB:113:ILE:HB	2.12	0.49
44:OC:30:ILE:H	44:OC:30:ILE:HD12	1.78	0.49
45:OD:88:ASP:OD1	45:OD:89:ASN:N	2.46	0.49
45:OD:242:PHE:HB3	45:OD:356:ILE:HG13	1.94	0.49
45:OD:314:SER:N	45:OD:368:VAL:O	2.45	0.49
44:OE:9:VAL:HG21	44:OE:149:LEU:CB	2.43	0.49
45:OJ:115:SER:O	45:OJ:119:VAL:HG22	2.12	0.49
44:OK:71:GLU:OE2	44:OK:73:THR:HG23	2.12	0.49
44:OK:256:GLN:HG3	45:ON:397:TRP:CH2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:305:PRO:HB2	45:OL:310:TYR:HE1	1.77	0.49
44:OM:191:THR:HA	44:OM:194:LEU:HG	1.94	0.49
44:OM:318:MET:O	44:OM:376:CYS:N	2.36	0.49
45:ON:392:LYS:CB	45:ON:395:LEU:HD12	2.41	0.49
44:PA:176:GLN:HG3	45:PB:331:LEU:HD21	1.93	0.49
44:PA:276:ILE:HG23	44:PA:281:ALA:HB2	1.93	0.49
44:PA:332:ILE:HD12	44:PA:335:ILE:HG13	1.95	0.49
44:PC:171:ILE:HG12	44:PC:204:LEU:HB2	1.94	0.49
45:PD:181:GLU:N	45:PD:182:PRO:HD2	2.27	0.49
45:PD:254:ALA:O	45:PD:258:ILE:HG12	2.11	0.49
44:PE:28:HIS:NE2	44:PE:48:ALA:HB1	2.27	0.49
44:PE:325:PRO:HA	44:PE:328:VAL:HG23	1.95	0.49
45:PF:145:SER:OG	45:PF:184:ASN:HB2	2.12	0.49
45:PF:318:ARG:HB2	45:PF:364:ALA:CB	2.32	0.49
44:PI:171:ILE:CD1	44:PI:204:LEU:HB2	2.42	0.49
45:PJ:49:VAL:CG1	45:PJ:241:ARG:HG2	2.37	0.49
44:PK:18:ASN:O	44:PK:22:GLU:OE1	2.30	0.49
44:PK:136:LEU:HD23	44:PK:167:LEU:CD2	2.42	0.49
44:PK:317:MET:HE1	44:PK:375:VAL:HG21	1.94	0.49
44:PM:240:ALA:HB2	44:PM:320:ARG:HH11	1.78	0.49
44:PM:270:SER:O	44:PM:302:MET:HB3	2.12	0.49
44:PM:324:VAL:HG21	44:PM:326:LYS:HE3	1.93	0.49
45:PN:268:ILE:HG22	45:PN:368:VAL:HG13	1.95	0.49
44:QA:248:LEU:CD2	44:QA:355:ILE:HD12	2.42	0.49
44:QA:276:ILE:HG23	44:QA:281:ALA:HB2	1.93	0.49
45:QB:68:LEU:HD13	45:QB:112:LEU:HD13	1.95	0.49
45:QB:259:PRO:HA	44:QC:404:PHE:CD1	2.48	0.49
44:QC:259:LEU:HD21	44:QC:316:SER:N	2.28	0.49
45:QF:117:LEU:HD22	45:QF:154:LYS:HD3	1.92	0.49
45:QF:165:GLU:OE2	45:QF:250:LEU:HD22	2.13	0.49
45:QF:271:ALA:HB2	45:QF:298:ASN:ND2	2.27	0.49
44:QI:319:TYR:HA	44:QI:375:VAL:HA	1.94	0.49
45:QJ:152:ILE:HD12	45:QJ:164:MET:HE1	1.93	0.49
45:QJ:237:THR:HG1	45:QJ:241:ARG:HH22	1.54	0.49
44:QM:216:ASN:HB3	44:QM:275:ILE:O	2.12	0.49
44:RA:51:THR:CB	44:RA:243:ARG:HB3	2.43	0.49
44:RC:26:LEU:HG	44:RC:361:THR:CG2	2.38	0.49
45:RD:19:LYS:O	45:RD:23:VAL:HG23	2.12	0.49
45:RD:44:LEU:HD23	45:RD:47:ILE:HD12	1.94	0.49
45:RD:316:LEU:O	45:RD:365:VAL:HA	2.11	0.49
45:RF:4:ILE:HG21	45:RF:250:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:54:ALA:CB	45:SJ:283:ALA:HB2	2.42	0.49
44:RK:103:PHE:O	44:RK:106:GLY:N	2.46	0.49
45:RL:89:ASN:O	45:RL:91:VAL:HG13	2.12	0.49
44:RM:11:GLN:CG	46:RM:501:GTP:O2A	2.61	0.49
44:RM:33:ASP:HB3	44:RM:35:GLN:HE22	1.77	0.49
44:RM:371:VAL:HG22	44:RM:373:ARG:H	1.78	0.49
44:RM:393:HIS:O	44:RM:397:LEU:HG	2.13	0.49
45:RN:268:ILE:HG22	45:RN:368:VAL:HG13	1.93	0.49
44:SA:32:PRO:HB3	44:SA:83:TYR:CE1	2.48	0.49
45:SB:330:MET:SD	45:SB:349:ILE:HG21	2.52	0.49
45:SB:393:ALA:O	45:SB:394:PHE:HB2	2.13	0.49
44:SC:205:ASP:OD1	44:SC:303:ALA:HA	2.11	0.49
44:SC:269:LEU:O	44:SC:379:SER:N	2.34	0.49
45:SD:114:ASP:OD1	45:SD:115:SER:N	2.43	0.49
45:SD:169:VAL:HG22	45:SD:202:ILE:CB	2.35	0.49
45:SD:360:GLY:O	45:SD:361:LEU:HD23	2.12	0.49
45:SF:135:ILE:HG13	45:SF:152:ILE:CD1	2.43	0.49
45:SF:135:ILE:HB	45:SF:166:THR:HG22	1.94	0.49
44:SI:123:ARG:HA	44:SI:123:ARG:CZ	2.42	0.49
44:SI:148:GLY:O	44:SI:151:SER:OG	2.10	0.49
44:SI:206:ASN:HA	44:SI:209:ILE:HG13	1.95	0.49
45:SJ:6:HIS:NE2	45:SJ:8:GLN:OE1	2.46	0.49
45:SJ:340:TYR:O	45:SJ:341:PHE:HD1	1.95	0.49
44:SK:227:LEU:HD13	46:SK:501:GTP:HN21	1.78	0.49
45:SL:341:PHE:CE2	45:SL:349:ILE:HD11	2.44	0.49
44:SM:187:SER:HA	44:SM:190:SER:OG	2.13	0.49
44:SM:195:LEU:HD13	44:SM:428:LEU:HD22	1.93	0.49
44:SM:262:TYR:HA	45:SN:396:HIS:CE1	2.47	0.49
45:SN:257:LEU:CD1	45:SN:314:SER:HB2	2.30	0.49
44:TA:259:LEU:HD13	44:TA:378:ILE:HG22	1.94	0.49
44:TA:428:LEU:HG	44:TA:432:TYR:HE2	1.77	0.49
45:TB:345:ILE:O	45:TB:345:ILE:HG23	2.13	0.49
45:TB:406:MET:O	45:TB:410:GLU:HG3	2.12	0.49
44:TC:6:SER:HA	44:TC:136:LEU:O	2.13	0.49
44:TC:30:ILE:HA	44:TC:36:MET:HE1	1.94	0.49
44:TC:273:ALA:O	44:TC:375:VAL:HG12	2.13	0.49
45:TD:4:ILE:HB	45:TD:132:GLY:O	2.12	0.49
44:TE:26:LEU:HD21	44:TE:363:VAL:HG23	1.95	0.49
44:TE:27:GLU:HB3	44:TE:28:HIS:ND1	2.27	0.49
44:TE:226:ASN:HD22	44:TE:229:ARG:HH22	1.60	0.49
45:TF:286:VAL:CG2	45:TF:321:MET:HE3	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:62:VAL:HG11	44:TG:88:HIS:HB2	1.94	0.49
44:TG:115:VAL:HG22	44:TG:119:LEU:CD2	2.42	0.49
45:TH:170:VAL:CG2	45:TH:171:PRO:HD2	2.43	0.49
45:TH:317:PHE:CD1	45:TH:365:VAL:HG22	2.47	0.49
45:TH:396:HIS:O	45:TH:400:GLY:N	2.46	0.49
44:TI:3:GLU:HB2	44:TI:131:GLY:C	2.32	0.49
44:TI:190:SER:O	44:TI:194:LEU:N	2.39	0.49
44:TI:203:MET:HB2	44:TI:269:LEU:CA	2.41	0.49
45:TJ:200:MET:HE1	45:TJ:266:PHE:HB2	1.95	0.49
45:TJ:257:LEU:HG	45:TJ:370:ASN:ND2	2.15	0.49
45:TJ:341:PHE:HB3	45:TJ:348:ASN:HD21	1.77	0.49
44:TK:270:SER:HB2	44:TK:378:ILE:HD13	1.95	0.49
45:TL:418:LEU:O	45:TL:422:TYR:HB2	2.13	0.49
44:TM:273:ALA:HB3	44:TM:295:ALA:HB2	1.95	0.49
44:TM:439:THR:HG21	45:TN:390:ARG:HD2	1.94	0.49
45:TN:99:ASN:HA	45:TN:142:GLY:HA3	1.94	0.49
44:UA:70:LEU:HD13	44:UA:110:ILE:HD12	1.94	0.49
45:UB:207:LEU:HD13	45:UB:225:LEU:CD2	2.40	0.49
45:UB:207:LEU:CD1	45:UB:225:LEU:HB3	2.42	0.49
45:UB:241:ARG:HG3	45:UB:241:ARG:HH11	1.77	0.49
44:UC:1:MET:O	44:UC:131:GLY:HA3	2.12	0.49
44:UC:182:VAL:O	44:UC:182:VAL:HG22	2.12	0.49
44:UC:320:ARG:HG3	44:UC:360:PRO:CD	2.31	0.49
45:UD:86:ARG:HH12	45:VD:281:TYR:C	2.15	0.49
45:UD:192:LEU:CD1	45:UD:196:ALA:HB2	2.42	0.49
45:UD:235:GLY:HA3	45:UD:366:THR:HG21	1.93	0.49
44:UE:143:GLY:HA3	46:UE:501:GTP:O3B	2.13	0.49
44:UG:23:LEU:HD21	44:UG:236:SER:HB2	1.95	0.49
44:UG:247:ALA:CB	45:UH:222:TYR:HD2	2.25	0.49
45:UH:101:TRP:NE1	45:UH:146:GLY:HA2	2.28	0.49
45:UH:199:CYS:HB3	45:UH:265:PHE:HA	1.95	0.49
45:UH:334:GLN:HG3	45:UH:341:PHE:HD2	1.78	0.49
45:UJ:70:PRO:HG3	45:UJ:92:PHE:HD2	1.78	0.49
45:UJ:139:LEU:HD13	45:UJ:168:SER:CB	2.33	0.49
45:UJ:246:LEU:HD11	44:UK:224:TYR:CZ	2.47	0.49
45:UJ:346:PRO:HD2	44:UK:398:MET:CE	2.42	0.49
45:UL:6:HIS:CB	45:UL:21:TRP:HZ2	2.26	0.49
45:UN:19:LYS:HG3	45:UN:22:GLU:OE2	2.13	0.49
44:VA:174:SER:HB2	44:VA:177:VAL:O	2.13	0.49
45:VD:66:MET:HE3	45:VD:147:MET:HB3	1.94	0.49
45:VD:116:VAL:O	45:VD:119:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:326:LYS:HG2	45:VH:220:PRO:HD2	1.94	0.49
45:VH:65:LEU:HB2	45:VH:90:PHE:CD1	2.48	0.49
44:VI:21:TRP:HZ2	44:VI:65:ALA:CB	2.25	0.49
45:VJ:392:LYS:CD	45:VJ:395:LEU:HD22	2.39	0.49
44:VK:231:ILE:HD12	44:VK:231:ILE:H	1.77	0.49
44:VK:320:ARG:HD2	44:VK:360:PRO:HG3	1.94	0.49
45:VL:304:ASP:OD1	45:VL:305:PRO:HD2	2.12	0.49
45:VL:415:MET:O	45:VL:419:VAL:HG23	2.12	0.49
45:VN:200:MET:SD	45:VN:268:ILE:HG23	2.53	0.49
45:VN:242:PHE:HB3	45:VN:356:ILE:HG12	1.93	0.49
44:WA:88:HIS:CB	44:WA:91:GLN:NE2	2.76	0.49
44:WA:192:HIS:CD2	44:WA:421:ALA:HA	2.47	0.49
45:WD:9:GLY:O	45:WD:13:GLY:HA3	2.13	0.49
45:WD:40:SER:HG	45:WD:43:GLN:CD	2.13	0.49
45:WD:163:ILE:HG21	45:WD:251:ARG:CD	2.42	0.49
45:WD:175:VAL:HG23	45:WD:175:VAL:O	2.12	0.49
45:WD:372:THR:HA	45:WD:422:TYR:HE2	1.76	0.49
44:WE:21:TRP:CZ2	44:WE:63:PRO:HB3	2.48	0.49
44:WE:175:PRO:HD2	44:WE:207:GLU:OE1	2.13	0.49
45:WF:83:GLN:OE1	45:WF:83:GLN:HA	2.12	0.49
45:WF:101:TRP:HZ2	45:WF:149:THR:HG21	1.76	0.49
44:WG:301:MET:HG3	44:WG:307:PRO:CD	2.42	0.49
45:WH:141:GLY:HA3	48:WH:501:GDP:PB	2.52	0.49
44:WI:288:VAL:HA	44:WI:291:ILE:CD1	2.42	0.49
45:WJ:207:LEU:CB	45:WJ:225:LEU:HD22	2.39	0.49
45:WJ:251:ARG:HG2	45:WJ:251:ARG:NH1	2.23	0.49
44:WK:82:THR:HG23	44:WK:83:TYR:CG	2.48	0.49
45:WN:15:GLN:O	45:WN:19:LYS:N	2.46	0.49
1:6H:248:LEU:O	45:FF:276:ARG:CZ	2.60	0.49
6:0E:50:ILE:HG12	35:7R:382:TYR:CD1	2.48	0.49
8:0G:53:ASN:ND2	44:JK:22:GLU:OE2	2.46	0.49
15:0V:94:GLY:HA2	45:LN:262:ARG:HB3	1.94	0.49
5:1D:55:GLY:CA	44:EG:221:ARG:HB3	2.42	0.49
9:1H:86:LYS:CE	44:HK:370:LYS:HD3	2.42	0.49
20:1J:262:VAL:N	44:II:282:TYR:HE1	2.11	0.49
10:1N:16:ILE:HG22	45:IJ:48:ASN:ND2	2.27	0.49
26:1R:153:LYS:HD3	44:AC:245:ASP:OD2	2.12	0.49
29:2F:93:GLU:CD	44:HE:299:ALA:HA	2.32	0.49
25:2P:355:GLN:CD	45:TN:360:GLY:HA2	2.32	0.49
12:2S:311:PRO:HG2	45:AJ:260:PHE:CE1	2.43	0.49
15:2V:51:LEU:HD22	44:LE:116:ASP:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2V:155:TYR:CD2	44:MG:390:ARG:HB3	2.48	0.49
15:3V:72:GLY:HA2	45:MB:340:TYR:CE2	2.47	0.49
15:3V:98:LEU:HD13	44:LA:402:ARG:CZ	2.42	0.49
15:3V:168:LEU:HG	44:MC:422:ARG:HG2	1.94	0.49
34:4F:119:VAL:HG21	45:IL:359:LYS:HG3	1.95	0.49
37:5D:52:VAL:CG1	44:KK:438:GLU:O	2.60	0.49
38:5E:181:TYR:HE2	45:KD:161:ASP:HB3	1.77	0.49
38:5G:93:PHE:CE2	45:KJ:261:PRO:HG2	2.47	0.49
39:5I:93:ASP:O	39:5I:95:LEU:N	2.45	0.49
39:5J:109:TYR:OH	45:NJ:307:HIS:HB3	2.13	0.49
35:5R:255:VAL:HG23	35:5R:278:TYR:C	2.33	0.49
41:6G:187:ILE:CG1	44:VE:299:ALA:HB2	2.43	0.49
41:6G:272:LYS:O	41:6G:273:MET:CE	2.61	0.49
35:6R:131:GLU:OE1	35:6R:141:GLN:NE2	2.46	0.49
35:7R:65:LEU:HD12	45:MB:39:ASP:OD2	2.13	0.49
35:7R:103:VAL:HG21	35:7R:106:ASN:HB2	1.95	0.49
35:7R:318:TYR:HB3	35:7R:321:MET:HB2	1.93	0.49
42:8N:281:UNK:HA	42:8N:284:UNK:CB	2.43	0.49
45:AB:23:VAL:HG21	45:AB:230:SER:OG	2.13	0.49
45:AB:278:SER:HB2	45:MB:87:PRO:CG	2.38	0.49
45:AB:286:VAL:CB	45:AB:325:GLU:HG2	2.43	0.49
45:AD:116:VAL:O	45:AD:119:VAL:HG12	2.12	0.49
45:AD:142:GLY:HA2	45:AD:145:SER:OG	2.12	0.49
45:AD:418:LEU:HD12	45:AD:418:LEU:O	2.13	0.49
44:AE:172:TYR:OH	44:AE:191:THR:OG1	2.25	0.49
45:AF:167:PHE:CD2	45:AF:233:MET:HE3	2.48	0.49
45:AF:193:VAL:CA	45:AF:264:HIS:HE2	2.25	0.49
45:AF:345:ILE:O	45:AF:345:ILE:HG23	2.12	0.49
44:AG:12:GLY:O	44:AG:16:VAL:HG12	2.13	0.49
44:AG:236:SER:O	44:AG:320:ARG:NH1	2.46	0.49
44:AI:311:LYS:HD2	44:AI:342:GLN:CG	2.39	0.49
44:AK:200:VAL:HG13	44:AK:268:MET:HE1	1.95	0.49
44:AK:250:VAL:CG1	44:AK:255:PHE:HE1	2.25	0.49
45:AL:31:ASP:HB3	45:AL:32:PRO:HD2	1.94	0.49
45:AL:133:PHE:HD2	45:AL:164:MET:HE1	1.78	0.49
45:AL:286:VAL:HB	45:AL:325:GLU:OE1	2.13	0.49
45:AL:398:TYR:HD2	45:AL:403:MET:HE1	1.77	0.49
44:AM:425:LEU:HB2	44:AM:426:ALA:N	2.28	0.49
44:AM:427:ALA:CA	44:AM:430:LYS:HE3	2.42	0.49
45:AN:174:LYS:CD	45:AN:175:VAL:HG13	2.42	0.49
45:AN:221:THR:HG22	45:AN:224:ASP:CG	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:292:GLN:NE2	45:AN:298:ASN:OD1	2.42	0.49
44:BA:63:PRO:HG2	44:BA:87:PHE:HA	1.94	0.49
44:BA:395:PHE:CD2	44:BA:422:ARG:HD3	2.48	0.49
45:BB:130:LEU:HB3	45:BB:162:ARG:HD2	1.95	0.49
45:BD:202:ILE:CG2	45:BD:207:LEU:HD21	2.43	0.49
45:BD:211:CYS:HB3	45:BD:217:LEU:HG	1.95	0.49
45:BD:396:HIS:O	45:BD:399:THR:HG22	2.12	0.49
44:BE:223:THR:HB	45:BF:322:SER:HA	1.93	0.49
45:BF:67:ASP:N	45:BF:73:MET:HE3	2.27	0.49
45:BH:151:LEU:O	45:BH:155:VAL:HG23	2.13	0.49
45:BH:245:GLN:OE1	45:BH:245:GLN:HA	2.13	0.49
45:BH:310:TYR:CE1	45:BH:371:SER:HB3	2.48	0.49
44:BI:137:VAL:HG12	44:BI:167:LEU:O	2.13	0.49
44:BI:406:HIS:ND1	44:BI:407:TRP:CD1	2.80	0.49
44:BI:407:TRP:HZ3	45:BJ:255:VAL:CA	2.25	0.49
45:BJ:317:PHE:HD2	45:BJ:321:MET:SD	2.36	0.49
45:BL:117:LEU:HD11	45:BL:158:GLU:OE2	2.13	0.49
45:BL:175:VAL:O	45:BL:175:VAL:HG23	2.12	0.49
44:BM:288:VAL:CA	44:BM:291:ILE:HG12	2.42	0.49
45:BN:158:GLU:O	45:BN:159:TYR:HD1	1.96	0.49
45:BN:248:SER:CB	45:BN:252:LYS:HE2	2.42	0.49
44:CA:3:GLU:HG3	44:CA:50:ASN:O	2.12	0.49
44:CA:149:LEU:O	44:CA:153:LEU:HG	2.12	0.49
44:CA:384:ILE:HG13	44:CA:387:VAL:CG2	2.42	0.49
45:CB:6:HIS:HA	45:CB:134:GLN:HE22	1.75	0.49
45:CB:187:LEU:HD11	45:CB:403:MET:HE1	1.93	0.49
45:CB:214:THR:HG23	45:CB:297:LYS:NZ	2.28	0.49
44:CC:111:GLY:O	44:CC:115:VAL:HB	2.12	0.49
45:CD:97:ALA:CB	45:CD:143:THR:HG22	2.25	0.49
45:CD:200:MET:HE3	45:CD:268:ILE:CG2	2.42	0.49
44:CE:103:PHE:CD2	44:CE:189:LEU:HD13	2.48	0.49
44:CE:143:GLY:HA3	46:CE:501:GTP:PB	2.52	0.49
44:CG:112:LYS:O	44:CG:115:VAL:HG12	2.13	0.49
45:CH:52:ASN:ND2	45:CH:62:ARG:HG2	2.27	0.49
45:CJ:174:LYS:CD	45:CJ:175:VAL:HG13	2.40	0.49
45:CJ:253:LEU:O	45:CJ:257:LEU:HD13	2.12	0.49
44:CK:11:GLN:HE21	44:CK:74:VAL:CG1	2.25	0.49
44:CK:11:GLN:N	46:CK:501:GTP:O2B	2.46	0.49
44:CK:268:MET:HB2	44:CK:379:SER:C	2.33	0.49
45:CL:24:ILE:HD12	45:CL:24:ILE:H	1.78	0.49
45:CL:306:ARG:HB2	45:CL:340:TYR:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:317:MET:N	44:CM:352:LYS:O	2.24	0.49
45:CN:101:TRP:HZ3	45:CN:403:MET:CE	2.26	0.49
44:DA:106:GLY:HA3	44:DA:145:THR:HA	1.95	0.49
44:DA:242:LEU:HD11	44:DA:252:ILE:HD11	1.95	0.49
44:DA:244:PHE:HB3	44:DA:358:GLN:OE1	2.13	0.49
45:DB:31:ASP:HB3	45:DB:32:PRO:HD2	1.95	0.49
45:DD:262:ARG:H	45:DD:262:ARG:HD3	1.78	0.49
44:DE:143:GLY:HA3	46:DE:501:GTP:O3B	2.13	0.49
44:DG:219:ILE:HD12	44:DG:367:ASP:OD2	2.12	0.49
44:DG:224:TYR:HB3	46:DG:501:GTP:O6	2.12	0.49
44:DG:320:ARG:HG3	44:DG:374:ALA:CB	2.43	0.49
45:DH:269:GLY:HA3	45:DH:299:MET:HA	1.94	0.49
44:DI:6:SER:O	44:DI:66:VAL:HG22	2.13	0.49
44:DI:13:GLY:CA	44:DI:16:VAL:HG12	2.42	0.49
44:DI:147:SER:O	44:DI:151:SER:N	2.31	0.49
45:DJ:318:ARG:HD3	45:DJ:358:PRO:HG3	1.95	0.49
45:DJ:390:ARG:O	45:DJ:392:LYS:NZ	2.45	0.49
44:DK:176:GLN:HG2	44:DK:177:VAL:N	2.28	0.49
44:DK:272:TYR:CD2	44:DK:275:ILE:HD11	2.48	0.49
44:DK:344:VAL:HG12	44:DK:347:CYS:HB3	1.94	0.49
44:DK:372:MET:O	44:DK:373:ARG:HD3	2.13	0.49
45:DL:342:VAL:HG11	45:DL:344:TRP:NE1	2.27	0.49
45:DL:417:ASP:O	45:DL:421:GLU:N	2.30	0.49
44:DM:437:ILE:O	44:DM:437:ILE:HG13	2.11	0.49
45:DN:139:LEU:HD22	45:DN:170:VAL:HG12	1.95	0.49
45:DN:287:PRO:HG3	45:DN:329:GLN:NE2	2.27	0.49
44:EA:97:GLU:HG2	44:EA:105:ARG:HH22	1.76	0.49
44:EA:276:ILE:HG23	44:EA:281:ALA:HB2	1.94	0.49
45:EB:39:ASP:H	45:EB:43:GLN:NE2	2.10	0.49
45:EB:254:ALA:HA	45:EB:258:ILE:CD1	2.43	0.49
44:EC:93:ILE:HG13	44:EC:93:ILE:O	2.13	0.49
44:EC:181:VAL:O	44:EC:184:PRO:HD2	2.13	0.49
45:ED:117:LEU:HD13	45:ED:154:LYS:HD2	1.95	0.49
45:ED:289:LEU:CD2	45:ED:363:MET:HE1	2.37	0.49
44:EE:98:ASP:OD1	44:EE:99:ALA:N	2.45	0.49
45:EF:313:ALA:O	45:EF:349:ILE:HA	2.13	0.49
45:EF:330:MET:SD	45:EF:349:ILE:HG21	2.53	0.49
44:EG:202:VAL:HG12	44:EG:203:MET:N	2.27	0.49
44:EI:233:GLN:HA	44:EI:236:SER:OG	2.12	0.49
45:EJ:151:LEU:O	45:EJ:151:LEU:HD23	2.11	0.49
45:EL:44:LEU:CD2	45:EL:47:ILE:HG21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:192:LEU:HG	45:EL:196:ALA:HB2	1.94	0.49
45:EL:252:LYS:HB2	44:EM:100:ALA:HA	1.95	0.49
45:EL:273:LEU:HD12	45:EL:298:ASN:OD1	2.13	0.49
44:EM:439:THR:HB	45:EN:391:ARG:HD3	1.95	0.49
45:EN:117:LEU:HD12	45:EN:120:VAL:HG11	1.94	0.49
45:EN:388:MET:HE2	45:EN:394:PHE:CD2	2.47	0.49
44:FA:132:LEU:HD22	44:FA:164:LYS:HG2	1.94	0.49
44:FA:296:PHE:HD2	44:FA:335:ILE:HD12	1.76	0.49
44:FA:416:GLY:O	44:FA:419:SER:N	2.46	0.49
45:FB:139:LEU:HB2	45:FB:170:VAL:HG12	1.94	0.49
45:FB:242:PHE:CD2	45:FB:356:ILE:HG21	2.48	0.49
44:FC:54:SER:HB3	44:FC:64:ARG:NH2	2.27	0.49
44:FC:166:LYS:O	44:FC:199:ASP:HB2	2.13	0.49
45:FD:304:ASP:O	45:FD:373:ALA:HB1	2.13	0.49
45:FF:60:VAL:O	45:FF:60:VAL:HG13	2.12	0.49
44:FG:36:MET:HE3	44:FG:37:PRO:CD	2.33	0.49
44:FG:88:HIS:ND1	44:FG:89:PRO:HD2	2.28	0.49
45:FH:2:ARG:CZ	45:FH:240:LEU:HG	2.42	0.49
45:FH:5:VAL:HG12	45:FH:62:ARG:HD2	1.95	0.49
45:FH:139:LEU:HD12	45:FH:188:SER:OG	2.12	0.49
45:FJ:105:HIS:CE1	45:FJ:150:LEU:HD12	2.47	0.49
45:FJ:212:PHE:CZ	45:FJ:220:PRO:HG2	2.48	0.49
44:FK:9:VAL:HG21	44:FK:149:LEU:HB2	1.95	0.49
44:FM:229:ARG:HH21	44:FM:363:VAL:HG11	1.78	0.49
44:FM:407:TRP:O	44:FM:411:GLU:HG2	2.13	0.49
45:FN:66:MET:HE2	45:FN:116:VAL:CG2	2.34	0.49
45:FN:130:LEU:HD21	45:FN:133:PHE:CE1	2.48	0.49
45:FN:135:ILE:HG13	45:FN:152:ILE:CD1	2.43	0.49
45:FN:286:VAL:CG2	45:FN:287:PRO:HD3	2.43	0.49
44:GA:26:LEU:CD2	44:GA:364:PRO:HD3	2.42	0.49
44:GA:30:ILE:HD13	44:GA:53:PHE:CD2	2.47	0.49
45:GB:113:ILE:HD13	45:GB:150:LEU:CD2	2.43	0.49
45:GB:374:ILE:HD12	45:GB:378:PHE:CE2	2.47	0.49
44:GC:22:GLU:HG3	44:GC:83:TYR:OH	2.13	0.49
45:GD:68:LEU:HB2	45:GD:147:MET:HE1	1.94	0.49
45:GD:86:ARG:HD3	45:GD:89:ASN:OD1	2.13	0.49
45:GD:311:LEU:HD12	45:GD:422:TYR:OH	2.12	0.49
44:GE:118:CYS:O	44:GE:122:ILE:HG12	2.12	0.49
45:GF:203:ASP:OD2	45:GF:377:MET:HE3	2.13	0.49
45:GH:45:GLU:O	45:GH:46:ARG:HD3	2.13	0.49
44:GI:311:LYS:HZ1	44:GI:342:GLN:HB2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GJ:232:ALA:CB	45:GJ:268:ILE:HD12	2.42	0.49
44:GK:310:GLY:HA3	44:GK:383:ALA:N	2.27	0.49
45:GL:274:THR:OG1	45:GL:282:ARG:HD3	2.12	0.49
45:GL:290:THR:HG21	45:GL:329:GLN:NE2	2.28	0.49
44:GM:195:LEU:O	44:GM:266:HIS:NE2	2.38	0.49
44:GM:394:LYS:HA	44:GM:397:LEU:HG	1.94	0.49
45:GN:68:LEU:HG	45:GN:68:LEU:O	2.12	0.49
45:GN:217:LEU:CD1	45:GN:220:PRO:HA	2.43	0.49
45:GN:324:LYS:O	45:GN:327:ASP:OD1	2.30	0.49
44:HA:195:LEU:HA	44:HA:266:HIS:HE1	1.77	0.49
45:HB:67:ASP:OD1	45:HB:68:LEU:N	2.45	0.49
44:HC:101:ASN:HA	44:HC:144:GLY:H	1.78	0.49
45:HD:135:ILE:HG21	45:HD:152:ILE:HD11	1.95	0.49
45:HF:161:ASP:OD1	45:HF:162:ARG:N	2.46	0.49
44:HG:238:LEU:O	44:HG:238:LEU:HD23	2.13	0.49
44:HI:328:VAL:HG11	44:HI:353:VAL:CG2	2.37	0.49
45:HJ:287:PRO:CD	45:HJ:329:GLN:HE22	2.26	0.49
44:HK:290:GLU:HA	44:HK:293:ASN:CG	2.34	0.49
45:HL:49:VAL:HG21	45:HL:240:LEU:CD2	2.43	0.49
44:HM:243:ARG:HG3	44:HM:244:PHE:CD1	2.47	0.49
44:IA:116:ASP:HA	44:IA:119:LEU:HB2	1.95	0.49
44:IA:272:TYR:OH	44:IA:374:ALA:HB1	2.13	0.49
45:IB:36:TYR:CG	45:IB:44:LEU:HD11	2.48	0.49
45:IB:180:VAL:HG21	45:IB:398:TYR:OH	2.13	0.49
45:IB:405:GLU:HA	45:IB:408:PHE:CD2	2.48	0.49
44:IC:66:VAL:HG22	44:IC:68:LEU:CD1	2.43	0.49
44:IC:296:PHE:CE2	44:IC:335:ILE:HG21	2.47	0.49
44:IE:386:GLU:O	44:IE:390:ARG:HG2	2.13	0.49
45:IF:304:ASP:OD1	45:IF:305:PRO:HD2	2.12	0.49
44:IG:51:THR:O	44:IG:52:PHE:HD1	1.95	0.49
44:IG:52:PHE:O	44:IG:64:ARG:HG2	2.13	0.49
44:IG:129:CYS:HB2	44:IG:132:LEU:HD11	1.95	0.49
44:IG:188:ILE:HG23	44:IG:425:LEU:HG	1.95	0.49
44:IG:292:THR:O	44:IG:295:ALA:HB3	2.13	0.49
45:IH:49:VAL:CG2	45:IH:241:ARG:HG2	2.37	0.49
45:IH:68:LEU:CD2	45:IH:147:MET:HE3	2.43	0.49
45:IH:272:PRO:HB2	45:IH:282:ARG:NH2	2.28	0.49
45:IH:317:PHE:CE1	45:IH:326:VAL:HG22	2.48	0.49
44:II:20:CYS:HA	44:II:232:ALA:HB1	1.95	0.49
45:IJ:251:ARG:O	45:IJ:254:ALA:N	2.46	0.49
45:IJ:376:GLU:HG3	45:IJ:380:ARG:HH21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IL:213:ARG:HB3	45:IL:297:LYS:NZ	2.26	0.49
44:JA:60:LYS:HE3	44:KA:282:TYR:HB3	1.94	0.49
44:JA:66:VAL:HG11	44:JA:122:ILE:CD1	2.43	0.49
44:JA:108:TYR:HE2	44:JA:413:MET:CG	2.26	0.49
45:JB:136:THR:CG2	45:JB:233:MET:HE2	2.43	0.49
45:JD:21:TRP:CH2	45:JD:61:PRO:HB3	2.48	0.49
45:JD:156:ARG:NH2	45:JD:197:ASP:OD1	2.45	0.49
44:JE:107:HIS:HB2	44:JE:148:GLY:HA2	1.94	0.49
44:JE:206:ASN:ND2	46:JE:501:GTP:HN22	2.11	0.49
45:JF:100:ASN:HB3	45:JF:103:LYS:HD3	1.95	0.49
45:JF:253:LEU:HG	45:JF:257:LEU:HD12	1.93	0.49
44:JG:63:PRO:CG	44:JG:86:LEU:HG	2.43	0.49
45:JH:237:THR:OG1	45:JH:241:ARG:NH2	2.40	0.49
44:JK:206:ASN:OD1	46:JK:501:GTP:N2	2.39	0.49
44:JK:212:ILE:HD12	44:JK:300:ASN:OD1	2.12	0.49
44:JK:271:SER:HA	44:JK:302:MET:CG	2.43	0.49
44:JM:2:ARG:HB2	44:JM:133:GLN:HG2	1.95	0.49
44:JM:46:ASP:O	44:JM:47:ASP:HB2	2.13	0.49
45:JN:9:GLY:O	45:JN:13:GLY:HA3	2.12	0.49
44:KA:1:MET:HE3	44:KA:131:GLY:HA3	1.93	0.49
44:KA:7:ILE:HD12	44:KA:66:VAL:HG11	1.94	0.49
45:KB:345:ILE:O	45:KB:345:ILE:HG23	2.12	0.49
44:KC:288:VAL:O	44:KC:291:ILE:HG12	2.13	0.49
44:KE:203:MET:HA	44:KE:203:MET:HE2	1.93	0.49
44:KE:286:LEU:N	44:KE:290:GLU:OE2	2.46	0.49
44:KE:320:ARG:CD	44:KE:360:PRO:HG3	2.42	0.49
45:KF:248:SER:HA	45:KF:252:LYS:CD	2.35	0.49
44:KG:103:PHE:HD2	44:KG:189:LEU:HD23	1.76	0.49
45:KH:186:THR:HG21	45:KH:385:PHE:CG	2.47	0.49
45:KH:201:VAL:O	45:KH:202:ILE:HD13	2.13	0.49
45:KH:342:VAL:HG21	45:KH:344:TRP:NE1	2.28	0.49
44:KI:349:THR:O	45:KL:179:VAL:HG23	2.13	0.49
44:KK:271:SER:OG	44:KK:301:MET:HA	2.13	0.49
45:KL:186:THR:CG2	45:KL:187:LEU:HD12	2.27	0.49
44:KM:177:VAL:O	44:KM:177:VAL:HG13	2.12	0.49
44:KM:231:ILE:O	44:KM:234:VAL:HB	2.12	0.49
44:KM:252:ILE:HA	44:KM:255:PHE:CD2	2.47	0.49
44:LA:8:HIS:ND1	44:LA:138:PHE:HB2	2.26	0.49
44:LA:123:ARG:NH2	44:LA:160:ASP:OD1	2.45	0.49
44:LC:60:LYS:NZ	44:MC:283:HIS:HA	2.28	0.49
44:LC:175:PRO:HB3	44:LC:390:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:222:PRO:HD2	45:LF:324:LYS:CD	2.40	0.49
45:LF:63:ALA:HB1	45:LF:65:LEU:HD11	1.94	0.49
44:LG:62:VAL:HG13	44:LG:62:VAL:O	2.13	0.49
44:LI:67:PHE:C	44:LI:68:LEU:HD12	2.32	0.49
44:LI:172:TYR:CD2	44:LI:203:MET:HE1	2.48	0.49
45:LJ:2:ARG:HA	45:LJ:129:CYS:O	2.12	0.49
45:LJ:60:VAL:HG13	45:LJ:60:VAL:O	2.13	0.49
45:LL:25:SER:O	45:LL:29:GLY:N	2.45	0.49
45:LL:109:GLY:HA2	45:LL:147:MET:CG	2.43	0.49
44:LM:191:THR:HG21	44:LM:388:PHE:HE1	1.72	0.49
45:LN:286:VAL:N	45:LN:287:PRO:CD	2.76	0.49
44:MA:3:GLU:OE1	44:MA:3:GLU:N	2.46	0.49
44:MA:98:ASP:HB3	45:MB:249:ASP:OD2	2.13	0.49
44:MA:203:MET:HG3	44:MA:384:ILE:HD11	1.94	0.49
44:MA:325:PRO:HG2	45:MD:222:TYR:HE2	1.77	0.49
45:MB:50:TYR:HE2	45:MB:241:ARG:NH2	2.07	0.49
45:MB:262:ARG:HG3	45:MB:263:LEU:CD1	2.36	0.49
45:MB:423:GLN:NE2	45:MB:423:GLN:O	2.45	0.49
44:MC:343:PHE:CE2	44:MC:350:GLY:HA3	2.47	0.49
45:MD:180:VAL:HG21	45:MD:398:TYR:OH	2.13	0.49
44:ME:306:ASP:HB3	44:ME:309:HIS:CE1	2.48	0.49
44:MG:1:MET:HG3	44:MG:130:THR:CG2	2.43	0.49
44:MI:14:ILE:HD13	44:MI:75:ILE:HD11	1.94	0.49
44:MI:215:ARG:NH2	44:MI:299:ALA:HB1	2.28	0.49
44:MK:102:ASN:O	44:MK:105:ARG:HB2	2.13	0.49
45:ML:69:GLU:O	45:ML:72:THR:HG22	2.11	0.49
44:MM:217:LEU:HD22	44:MM:367:ASP:HB3	1.95	0.49
45:MN:143:THR:HG23	45:MN:144:GLY:N	2.27	0.49
44:NA:91:GLN:O	44:NA:93:ILE:HD12	2.13	0.49
44:NA:212:ILE:HD12	44:NA:300:ASN:OD1	2.13	0.49
45:NB:97:ALA:O	45:NB:103:LYS:HG2	2.13	0.49
45:NB:285:THR:CB	45:NB:287:PRO:HD2	2.42	0.49
45:NB:372:THR:HG21	45:NB:426:GLN:CB	2.43	0.49
44:NG:151:SER:CB	44:NG:193:SER:HB2	2.43	0.49
45:NH:86:ARG:HE	45:OH:281:TYR:HB3	1.78	0.49
45:NH:100:ASN:HB3	45:NH:103:LYS:HB3	1.94	0.49
44:NI:163:LYS:HE2	44:NI:163:LYS:HA	1.95	0.49
44:NK:328:VAL:HG11	44:NK:353:VAL:CG2	2.36	0.49
45:NL:3:GLU:HG3	45:NL:127:CYS:HB2	1.93	0.49
44:NM:118:CYS:O	44:NM:121:ARG:N	2.45	0.49
44:OA:387:VAL:O	44:OA:391:LEU:HD13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:133:PHE:O	45:OB:165:GLU:N	2.39	0.49
44:OC:181:VAL:O	44:OC:184:PRO:HD2	2.12	0.49
44:OC:330:ALA:O	44:OC:334:THR:HG23	2.12	0.49
45:OD:133:PHE:CD2	45:OD:155:VAL:HG11	2.48	0.49
44:OE:11:GLN:CD	44:OE:74:VAL:HG11	2.32	0.49
44:OE:326:LYS:NZ	45:OH:220:PRO:HG2	2.28	0.49
45:OF:119:VAL:CA	45:OF:122:LYS:HG2	2.37	0.49
45:OJ:61:PRO:HD2	45:OJ:84:LEU:O	2.13	0.49
45:OJ:133:PHE:HE2	45:OJ:155:VAL:HG13	1.77	0.49
45:OJ:138:SER:HA	45:OJ:168:SER:OG	2.12	0.49
45:OL:8:GLN:NE2	45:OL:65:LEU:HG	2.28	0.49
45:OL:237:THR:HB	45:OL:240:LEU:HB3	1.95	0.49
44:OM:225:THR:O	44:OM:229:ARG:HG3	2.12	0.49
44:PA:21:TRP:HZ2	44:PA:65:ALA:HB2	1.77	0.49
44:PA:101:ASN:HA	44:PA:144:GLY:HA2	1.94	0.49
44:PA:175:PRO:HG3	44:PA:304:LYS:HG2	1.92	0.49
44:PC:70:LEU:HB3	44:PC:97:GLU:O	2.12	0.49
44:PC:261:PRO:CG	44:PC:313:MET:HE3	2.43	0.49
44:PC:271:SER:HA	44:PC:302:MET:HE2	1.93	0.49
45:PD:105:HIS:CD2	45:PD:150:LEU:HD21	2.47	0.49
44:PE:423:GLU:HA	44:PE:426:ALA:HB3	1.94	0.49
45:PF:105:HIS:HD1	45:PF:106:TYR:HD1	1.61	0.49
45:PJ:2:ARG:NE	45:PJ:240:LEU:HG	2.28	0.49
44:PK:334:THR:O	44:PK:337:THR:N	2.46	0.49
45:PL:390:ARG:HD2	45:PL:390:ARG:O	2.13	0.49
44:PM:221:ARG:NE	45:PN:322:SER:HB3	2.28	0.49
45:PN:334:GLN:HB2	45:PN:349:ILE:CD1	2.35	0.49
45:QB:253:LEU:O	45:QB:257:LEU:HD13	2.11	0.49
44:QC:332:ILE:O	44:QC:336:LYS:HG3	2.13	0.49
44:QC:426:ALA:HA	44:QC:429:GLU:CB	2.42	0.49
45:QD:285:THR:O	45:QD:289:LEU:N	2.35	0.49
44:QE:206:ASN:ND2	46:QE:501:GTP:O2'	2.46	0.49
44:QG:267:PHE:CD2	44:QG:388:PHE:HZ	2.31	0.49
45:QH:259:PRO:HA	44:QI:404:PHE:CE2	2.47	0.49
45:QH:304:ASP:HB3	45:QH:307:HIS:CD2	2.48	0.49
45:QH:418:LEU:O	45:QH:422:TYR:HB2	2.12	0.49
44:QI:166:LYS:N	44:QI:199:ASP:OD2	2.37	0.49
45:QJ:12:CYS:SG	45:QJ:169:VAL:HG11	2.52	0.49
44:QK:195:LEU:HD11	44:QK:264:ARG:NH2	2.22	0.49
45:QL:259:PRO:O	45:QL:260:PHE:HD1	1.95	0.49
45:QL:323:THR:HG22	45:QL:353:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:371:SER:HG	45:QL:372:THR:H	1.59	0.49
45:QL:374:ILE:HD11	45:QL:422:TYR:CD1	2.48	0.49
44:QM:194:LEU:O	44:QM:198:THR:N	2.35	0.49
44:QM:344:VAL:HG12	44:QM:347:CYS:CB	2.42	0.49
45:QN:268:ILE:HB	45:QN:367:PHE:O	2.12	0.49
44:RC:88:HIS:CD2	44:RC:90:GLU:HG2	2.48	0.49
45:RD:173:PRO:CD	45:RD:380:ARG:HD3	2.43	0.49
45:RD:179:VAL:O	45:RD:182:PRO:HD2	2.12	0.49
44:RE:276:ILE:CD1	44:RE:281:ALA:HA	2.43	0.49
44:RE:278:ALA:HB2	44:RE:369:ALA:CB	2.42	0.49
45:RF:248:SER:HB2	45:RF:252:LYS:HD2	1.93	0.49
44:RG:104:ALA:HA	44:RG:413:MET:HE1	1.94	0.49
44:RG:387:VAL:HA	44:RG:390:ARG:HH11	1.77	0.49
45:RH:207:LEU:HG	45:RH:300:MET:HE3	1.94	0.49
45:RH:213:ARG:HH22	45:RH:297:LYS:CB	2.09	0.49
45:RH:256:ASN:HD22	45:RH:350:LYS:CG	2.25	0.49
45:RJ:148:GLY:O	45:RJ:152:ILE:HG12	2.13	0.49
44:RK:257:THR:CA	45:RL:397:TRP:HH2	2.17	0.49
44:RM:71:GLU:OE1	44:RM:74:VAL:HG13	2.12	0.49
44:RM:149:LEU:O	44:RM:153:LEU:HG	2.12	0.49
44:RM:204:LEU:HD23	44:RM:302:MET:HG3	1.94	0.49
45:RN:345:ILE:O	45:RN:345:ILE:HG23	2.13	0.49
44:SA:54:SER:HB3	44:SA:64:ARG:CZ	2.43	0.49
44:SA:208:ALA:HB2	44:SA:304:LYS:HE3	1.95	0.49
44:SA:242:LEU:HD11	44:SA:252:ILE:HG13	1.93	0.49
45:SB:9:GLY:O	45:SB:13:GLY:HA3	2.13	0.49
45:SB:260:PHE:CZ	44:SC:403:ALA:HB2	2.48	0.49
45:SB:313:ALA:CA	45:SB:369:GLY:HA2	2.31	0.49
45:SD:316:LEU:CG	45:SD:352:SER:HB2	2.34	0.49
45:SD:378:PHE:O	45:SD:382:ALA:N	2.34	0.49
44:SE:272:TYR:CD2	44:SE:275:ILE:HD11	2.46	0.49
45:SF:32:PRO:HG3	45:SF:81:PHE:HE1	1.75	0.49
45:SF:156:ARG:HD3	45:SF:164:MET:HE1	1.95	0.49
45:SF:288:GLU:O	45:SF:291:GLN:HG3	2.12	0.49
45:SF:345:ILE:O	45:SF:345:ILE:HG23	2.12	0.49
44:SG:68:LEU:HD21	44:SG:118:CYS:SG	2.52	0.49
44:SG:202:VAL:HA	44:SG:268:MET:SD	2.53	0.49
44:SG:231:ILE:O	44:SG:234:VAL:N	2.45	0.49
44:SG:251:ASP:HB2	44:SG:253:THR:HG22	1.94	0.49
44:SG:439:THR:HG21	45:SH:390:ARG:CD	2.41	0.49
45:SH:211:CYS:SG	45:SH:225:LEU:HD23	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:374:ILE:HG12	45:SH:422:TYR:OH	2.13	0.49
44:SK:191:THR:CA	44:SK:194:LEU:HG	2.40	0.49
45:SL:358:PRO:CG	45:SL:361:LEU:HD12	2.43	0.49
44:SM:195:LEU:HD11	44:SM:428:LEU:CD1	2.42	0.49
44:SM:402:ARG:C	44:SM:405:VAL:HG23	2.33	0.49
45:SN:374:ILE:HD11	45:SN:422:TYR:CE1	2.47	0.49
44:TA:188:ILE:HG23	44:TA:425:LEU:CD1	2.43	0.49
45:TB:23:VAL:HG21	45:TB:230:SER:HB3	1.95	0.49
45:TB:135:ILE:HG12	45:TB:164:MET:HE3	1.94	0.49
44:TC:386:GLU:O	44:TC:390:ARG:HG2	2.13	0.49
44:TC:402:ARG:HH11	44:TC:405:VAL:HB	1.76	0.49
45:TD:69:GLU:OE1	45:TD:71:GLY:N	2.44	0.49
45:TF:138:SER:CB	45:TF:169:VAL:HB	2.42	0.49
45:TF:410:GLU:HA	45:TF:413:SER:OG	2.13	0.49
45:TH:40:SER:OG	45:TH:43:GLN:HG3	2.12	0.49
45:TJ:2:ARG:H	45:TJ:129:CYS:CB	2.22	0.49
45:TJ:217:LEU:HD11	45:TJ:220:PRO:CG	2.42	0.49
45:TJ:337:ASN:O	45:TJ:341:PHE:HD1	1.94	0.49
45:TL:293:MET:HG3	45:TL:367:PHE:HB2	1.94	0.49
45:TL:397:TRP:HA	45:TL:397:TRP:CE3	2.47	0.49
44:TM:145:THR:OG1	44:TM:149:LEU:HD23	2.13	0.49
44:TM:191:THR:HA	44:TM:194:LEU:CG	2.42	0.49
45:TN:403:MET:HG3	45:TN:407:GLU:OE2	2.13	0.49
44:UA:91:GLN:HG3	44:UA:121:ARG:CD	2.32	0.49
45:UB:187:LEU:HD11	45:UB:408:PHE:CE1	2.48	0.49
45:UB:321:MET:HG2	44:UC:221:ARG:NH2	2.28	0.49
44:UC:244:PHE:HB2	44:UC:356:ASN:HD21	1.77	0.49
45:UD:1:MET:O	45:UD:2:ARG:HG2	2.13	0.49
45:UD:54:ALA:HB3	45:UD:58:ARG:O	2.12	0.49
44:UE:1:MET:HE1	45:UF:94:GLN:CA	2.42	0.49
44:UE:11:GLN:HG3	44:UE:74:VAL:HG11	1.94	0.49
44:UE:273:ALA:HB1	44:UE:274:PRO:HA	1.93	0.49
44:UE:319:TYR:CD1	44:UE:375:VAL:HB	2.47	0.49
45:UH:320:ARG:HG2	45:UH:320:ARG:NH1	2.28	0.49
44:UI:259:LEU:HD23	44:UI:314:ALA:CB	2.43	0.49
45:UJ:2:ARG:NH1	45:UJ:240:LEU:HD21	2.28	0.49
45:UJ:32:PRO:HG3	45:UJ:81:PHE:CD2	2.48	0.49
45:UJ:174:LYS:HD2	45:UJ:174:LYS:O	2.12	0.49
45:UJ:215:LEU:HD21	45:UJ:273:LEU:HB3	1.93	0.49
45:UJ:334:GLN:HA	45:UJ:341:PHE:CZ	2.48	0.49
44:UK:210:TYR:O	44:UK:213:CYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:105:HIS:ND1	45:UL:150:LEU:HD11	2.28	0.49
45:UL:240:LEU:HD12	45:UL:249:ASP:CB	2.36	0.49
44:UM:2:ARG:O	44:UM:2:ARG:HG2	2.13	0.49
44:UM:5:ILE:HG12	44:UM:64:ARG:CB	2.40	0.49
44:UM:35:GLN:NE2	44:UM:36:MET:H	2.11	0.49
44:UM:213:CYS:CB	44:UM:217:LEU:HD22	2.43	0.49
45:UN:11:GLN:O	45:UN:15:GLN:N	2.31	0.49
45:UN:312:THR:OG1	45:UN:348:ASN:O	2.18	0.49
44:VC:121:ARG:HD3	44:VC:124:LYS:HZ1	1.75	0.49
45:VD:101:TRP:HE1	45:VD:105:HIS:CD2	2.31	0.49
45:VD:136:THR:HA	45:VD:167:PHE:O	2.12	0.49
44:VE:208:ALA:O	44:VE:211:ASP:N	2.45	0.49
44:VE:398:MET:CE	45:VF:346:PRO:HD2	2.42	0.49
44:VG:286:LEU:C	44:VG:373:ARG:HH21	2.14	0.49
44:VG:396:ASP:CG	44:VG:422:ARG:HE	2.15	0.49
45:VJ:72:THR:HG23	45:VJ:73:MET:N	2.27	0.49
45:VJ:231:ALA:HA	45:VJ:234:SER:OG	2.13	0.49
44:VK:294:SER:HB3	44:VK:300:ASN:HD21	1.78	0.49
46:VK:501:GTP:O1A	45:VL:246:LEU:HD11	2.12	0.49
44:VM:26:LEU:HD21	44:VM:364:PRO:CD	2.43	0.49
44:VM:241:SER:OG	44:VM:250:VAL:O	2.30	0.49
44:VM:260:VAL:HG22	44:VM:266:HIS:HB3	1.93	0.49
44:WA:320:ARG:NH2	44:WA:360:PRO:HA	2.28	0.49
45:WB:25:SER:O	45:WB:30:ILE:N	2.43	0.49
45:WB:46:ARG:HB3	45:WB:49:VAL:CG2	2.43	0.49
45:WB:238:CYS:HA	45:WB:241:ARG:NH1	2.28	0.49
44:WE:93:ILE:CD1	44:WE:121:ARG:HG3	2.43	0.49
44:WE:270:SER:HB2	44:WE:378:ILE:HD13	1.95	0.49
45:WF:91:VAL:HG13	45:WF:91:VAL:O	2.13	0.49
45:WF:103:LYS:HA	45:WF:401:GLU:OE1	2.12	0.49
45:WF:352:SER:C	45:WF:353:ILE:HD12	2.32	0.49
45:WH:83:GLN:O	45:WH:83:GLN:HG3	2.12	0.49
44:WI:1:MET:HE1	45:WL:94:GLN:HG2	1.95	0.49
44:WI:13:GLY:CA	44:WI:16:VAL:HG12	2.42	0.49
44:WI:183:GLU:HG2	44:WI:184:PRO:CD	2.42	0.49
44:WK:261:PRO:CG	44:WK:313:MET:HG3	2.38	0.49
44:WK:405:VAL:HG12	44:WK:409:VAL:HG23	1.95	0.49
45:WL:113:ILE:CD1	45:WL:150:LEU:HD22	2.23	0.49
45:WL:365:VAL:HG13	45:WL:365:VAL:O	2.12	0.49
44:WM:329:ASN:O	44:WM:332:ILE:N	2.45	0.49
45:WN:398:TYR:HB2	45:WN:408:PHE:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0B:203:THR:HG22	44:KI:285:GLN:O	2.11	0.49
18:1F:160:ASN:HB3	45:GL:125:GLU:CD	2.32	0.49
19:1I:183:ILE:HD12	45:KH:77:ARG:HH22	1.77	0.49
20:1J:139:LYS:HG3	44:IE:372:MET:HB2	1.95	0.49
32:2I:48:PHE:HE1	45:GH:294:PHE:HD2	1.59	0.49
11:3Q:115:LYS:HZ3	44:AG:264:ARG:CZ	2.24	0.49
12:3S:110:VAL:HG23	45:MN:160:PRO:HD3	1.93	0.49
37:5B:104:PRO:HB3	44:KE:390:ARG:NH2	2.23	0.49
38:5G:176:ASP:O	38:5G:180:THR:HG23	2.12	0.49
38:5H:24:ASP:CB	38:5H:29:LYS:HA	2.43	0.49
35:5R:321:MET:SD	35:5R:321:MET:O	2.70	0.49
35:5R:343:TYR:OH	45:CJ:80:PRO:HG2	2.13	0.49
35:5R:519:LYS:HG2	35:5R:522:VAL:HG12	1.94	0.49
35:6R:256:LEU:HD22	35:6R:356:THR:HG23	1.95	0.49
35:6R:514:LYS:HD3	44:EM:39:ASP:OD2	2.13	0.49
35:6R:600:LEU:HD22	35:6R:601:ASP:H	1.78	0.49
35:7R:22:LYS:HB2	35:7R:25:HIS:NE2	2.27	0.49
35:7R:172:ASN:C	35:7R:173:LEU:HD12	2.32	0.49
42:8L:334:UNK:HA	42:8L:337:UNK:CB	2.43	0.49
44:AA:71:GLU:O	44:AA:74:VAL:HG12	2.13	0.49
45:AB:378:PHE:CB	45:AB:419:VAL:HG22	2.43	0.49
44:AI:71:GLU:HG3	45:AJ:247:ASN:HD21	1.77	0.49
44:AK:137:VAL:HG11	44:AK:154:LEU:HD21	1.95	0.49
44:AK:319:TYR:CD1	44:AK:375:VAL:HG23	2.48	0.49
45:AL:36:TYR:O	45:AL:37:HIS:ND1	2.46	0.49
45:AL:68:LEU:HD11	45:AL:108:GLU:CG	2.42	0.49
45:AL:155:VAL:HG11	45:AL:164:MET:HE1	1.94	0.49
44:AM:247:ALA:C	44:AM:248:LEU:HD12	2.33	0.49
45:AN:6:HIS:CD2	45:AN:8:GLN:HG3	2.47	0.49
44:BA:30:ILE:HD12	44:BA:53:PHE:CE2	2.47	0.49
44:BA:115:VAL:O	44:BA:119:LEU:HD23	2.13	0.49
44:BA:181:VAL:HG12	45:BB:347:ASN:O	2.13	0.49
44:BA:406:HIS:CD2	45:BB:261:PRO:HD3	2.47	0.49
45:BD:1:MET:O	45:BD:2:ARG:HG2	2.13	0.49
45:BD:156:ARG:HB2	45:BD:195:ASN:OD1	2.12	0.49
45:BD:362:LYS:HA	45:BD:362:LYS:HE3	1.95	0.49
44:BG:4:VAL:HG23	44:BG:134:GLY:O	2.13	0.49
44:BG:257:THR:HG22	45:BJ:397:TRP:CD2	2.48	0.49
45:BH:52:ASN:HA	45:BH:53:GLU:N	2.28	0.49
44:BI:276:ILE:CG1	44:BI:280:LYS:HG3	2.43	0.49
44:BM:4:VAL:HG11	44:BM:52:PHE:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:250:VAL:HG22	44:BM:352:LYS:HE3	1.95	0.49
44:CA:91:GLN:HG2	44:CA:121:ARG:NE	2.28	0.49
44:CA:247:ALA:HB2	44:CA:357:TYR:OH	2.13	0.49
44:CA:261:PRO:O	45:CB:393:ALA:HA	2.12	0.49
45:CB:175:VAL:HG13	45:CB:205:GLU:HB2	1.94	0.49
45:CB:267:MET:HE3	45:CB:374:ILE:HD11	1.95	0.49
44:CE:10:GLY:O	44:CE:13:GLY:N	2.45	0.49
44:CE:140:SER:OG	46:CE:501:GTP:O2B	2.29	0.49
45:CF:117:LEU:HA	45:CF:120:VAL:HG12	1.94	0.49
45:CF:224:ASP:HA	45:CF:227:HIS:HD2	1.77	0.49
44:CG:168:GLY:O	44:CG:201:ALA:HA	2.13	0.49
44:CG:320:ARG:NH2	44:CG:360:PRO:HA	2.27	0.49
45:CH:356:ILE:HG21	45:CH:357:PRO:HA	1.95	0.49
44:CI:268:MET:HB3	44:CI:380:ASN:CB	2.43	0.49
45:CJ:246:LEU:HA	44:CK:11:GLN:OE1	2.13	0.49
44:CK:13:GLY:HA2	44:CK:16:VAL:HG12	1.94	0.49
44:CK:258:ASN:O	45:CL:179:VAL:HG21	2.12	0.49
44:CK:269:LEU:H	44:CK:269:LEU:HD23	1.78	0.49
44:CK:319:TYR:HB2	44:CK:355:ILE:CD1	2.38	0.49
45:CL:398:TYR:HD2	45:CL:408:PHE:HZ	1.61	0.49
44:CM:276:ILE:HD11	44:CM:280:LYS:HG2	1.95	0.49
45:CN:198:GLU:OE2	45:CN:254:ALA:HA	2.12	0.49
45:CN:200:MET:CG	45:CN:268:ILE:HG23	2.26	0.49
45:CN:217:LEU:HD12	45:CN:217:LEU:O	2.13	0.49
44:DA:176:GLN:HG2	44:DA:177:VAL:N	2.26	0.49
44:DA:227:LEU:O	44:DA:230:LEU:N	2.45	0.49
44:DA:258:ASN:ND2	44:DA:352:LYS:HD3	2.27	0.49
44:DA:346:TRP:CB	45:DB:391:ARG:HG3	2.42	0.49
45:DB:60:VAL:HG13	45:DB:60:VAL:O	2.12	0.49
45:DB:117:LEU:HD22	45:DB:154:LYS:NZ	2.27	0.49
45:DB:139:LEU:CD1	45:DB:168:SER:HB3	2.33	0.49
45:DB:217:LEU:HD11	45:DB:220:PRO:HA	1.95	0.49
44:DC:67:PHE:HD2	44:DC:92:LEU:HG	1.78	0.49
45:DD:32:PRO:HD2	45:DD:33:THR:N	2.28	0.49
45:DD:135:ILE:O	45:DD:166:THR:HA	2.13	0.49
45:DD:267:MET:HE1	45:DD:299:MET:HG2	1.94	0.49
45:DF:72:THR:HG23	45:DF:73:MET:HE3	1.95	0.49
45:DF:268:ILE:HG13	45:DF:300:MET:SD	2.53	0.49
45:DF:347:ASN:O	44:DG:181:VAL:HG13	2.12	0.49
44:DG:62:VAL:HG13	44:DG:62:VAL:O	2.11	0.49
44:DG:105:ARG:C	44:DG:110:ILE:HG12	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:112:LEU:O	45:DH:115:SER:OG	2.22	0.49
44:DK:273:ALA:HB2	44:DK:300:ASN:HD22	1.78	0.49
45:DL:252:LYS:HD3	45:DL:350:LYS:HZ1	1.77	0.49
44:DM:11:GLN:OE1	46:DM:501:GTP:PB	2.65	0.49
44:DM:183:GLU:N	44:DM:184:PRO:HD2	2.27	0.49
45:DN:184:ASN:OD1	45:DN:185:ALA:N	2.45	0.49
45:DN:396:HIS:HA	45:DN:399:THR:OG1	2.12	0.49
44:EC:101:ASN:CA	44:EC:144:GLY:HA3	2.42	0.49
45:ED:256:ASN:C	45:ED:257:LEU:HD12	2.33	0.49
44:EE:2:ARG:O	44:EE:3:GLU:HG3	2.12	0.49
44:EE:74:VAL:O	44:EE:78:VAL:HG23	2.13	0.49
44:EE:188:ILE:HG23	44:EE:189:LEU:N	2.27	0.49
45:EF:201:VAL:HG13	45:EF:301:CYS:SG	2.53	0.49
44:EG:276:ILE:HD11	44:EG:281:ALA:HA	1.92	0.49
45:EH:137:HIS:O	45:EH:168:SER:HA	2.12	0.49
45:EH:304:ASP:O	45:EH:373:ALA:HB1	2.13	0.49
45:EH:321:MET:N	45:EH:321:MET:SD	2.86	0.49
44:EI:344:VAL:HG12	44:EI:345:ASP:N	2.27	0.49
44:EK:363:VAL:HG23	44:EK:364:PRO:HD2	1.94	0.49
45:EL:303:ALA:N	45:EL:377:MET:HE1	2.28	0.49
44:EM:384:ILE:O	44:EM:387:VAL:HG22	2.13	0.49
45:EN:86:ARG:NE	45:EN:87:PRO:HD2	2.27	0.49
45:EN:334:GLN:O	45:EN:338:SER:N	2.46	0.49
44:FA:269:LEU:HB2	44:FA:303:ALA:CB	2.43	0.49
45:FB:135:ILE:HG12	45:FB:164:MET:CE	2.42	0.49
44:FC:51:THR:O	44:FC:52:PHE:HD1	1.95	0.49
44:FC:188:ILE:HD12	44:FC:425:LEU:CD1	2.42	0.49
45:FD:113:ILE:HA	45:FD:116:VAL:CG1	2.42	0.49
44:FE:221:ARG:NH1	45:FF:325:GLU:H	2.11	0.49
44:FE:288:VAL:HG11	44:FE:327:ASP:OD2	2.12	0.49
45:FF:54:ALA:CA	45:GF:283:ALA:HB2	2.41	0.49
45:FF:344:TRP:CZ3	45:FF:345:ILE:HG12	2.48	0.49
44:FG:7:ILE:HD13	44:FG:66:VAL:CG2	2.43	0.49
44:FG:38:SER:O	44:FG:41:THR:HG23	2.13	0.49
44:FG:293:ASN:OD1	44:FG:335:ILE:HD11	2.13	0.49
45:FH:64:ILE:HD12	45:FH:64:ILE:H	1.78	0.49
44:FI:87:PHE:HB3	44:FI:91:GLN:NE2	2.27	0.49
45:FJ:269:GLY:CA	45:FJ:300:MET:HE1	2.40	0.49
45:FL:310:TYR:CE1	45:FL:371:SER:HB2	2.48	0.49
44:FM:422:ARG:HH12	44:FM:426:ALA:HB2	1.78	0.49
45:FN:107:THR:O	45:FN:111:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:178:THR:HG21	45:FN:180:VAL:HG12	1.93	0.49
44:GA:23:LEU:CD1	44:GA:361:THR:HG23	2.35	0.49
44:GA:104:ALA:O	44:GA:107:HIS:N	2.43	0.49
44:GA:183:GLU:CD	44:GA:184:PRO:HD3	2.33	0.49
44:GA:270:SER:HB2	44:GA:377:MET:O	2.13	0.49
45:GB:141:GLY:HA3	48:GB:502:GDP:O2B	2.12	0.49
45:GB:286:VAL:O	45:GB:290:THR:HG22	2.12	0.49
45:GD:238:CYS:SG	45:GD:239:CYS:N	2.86	0.49
45:GF:2:ARG:HB2	45:GF:131:GLN:HG3	1.95	0.49
45:GF:330:MET:HE2	45:GF:349:ILE:CG1	2.43	0.49
44:GG:54:SER:HB3	44:GG:64:ARG:CZ	2.43	0.49
44:GG:167:LEU:HD23	44:GG:200:VAL:HB	1.95	0.49
44:GG:230:LEU:HD11	44:GG:368:LEU:HD21	1.95	0.49
44:GG:270:SER:HB3	44:GG:378:ILE:CD1	2.40	0.49
45:GJ:299:MET:CE	45:GJ:305:PRO:HG3	2.42	0.49
44:GK:183:GLU:N	44:GK:184:PRO:HD2	2.28	0.49
45:GL:21:TRP:O	45:GL:25:SER:OG	2.21	0.49
45:GL:156:ARG:HB2	45:GL:164:MET:CE	2.42	0.49
44:GM:93:ILE:HG12	44:GM:117:LEU:HB3	1.94	0.49
44:GM:320:ARG:HG2	44:GM:374:ALA:HB3	1.95	0.49
45:GN:311:LEU:HB2	45:GN:370:ASN:O	2.12	0.49
45:HB:20:PHE:CE1	45:HB:24:ILE:HD11	2.48	0.49
44:HC:32:PRO:HB3	44:HC:83:TYR:HD1	1.73	0.49
44:HC:174:SER:CB	44:HC:207:GLU:HB2	2.42	0.49
45:HD:404:ASP:OD1	45:HD:407:GLU:HG3	2.12	0.49
44:HE:182:VAL:O	44:HE:182:VAL:HG22	2.12	0.49
44:HE:244:PHE:CE1	44:HE:358:GLN:HG3	2.47	0.49
45:HH:203:ASP:O	45:HH:207:LEU:HG	2.13	0.49
45:HJ:51:TYR:CE1	45:HJ:61:PRO:HD3	2.48	0.49
45:HJ:203:ASP:OD2	45:HJ:302:ALA:N	2.43	0.49
44:HK:60:LYS:HD3	44:IK:283:HIS:NE2	2.27	0.49
44:HK:317:MET:HA	44:HK:377:MET:HA	1.95	0.49
45:HL:73:MET:CA	45:HL:76:VAL:HG12	2.43	0.49
45:HL:178:THR:HG22	45:HL:180:VAL:HG12	1.95	0.49
44:HM:204:LEU:HD23	44:HM:302:MET:CG	2.42	0.49
45:IB:127:CYS:SG	45:IB:130:LEU:HB2	2.53	0.49
44:IC:242:LEU:HD11	44:IC:252:ILE:CG1	2.34	0.49
45:ID:235:GLY:HA3	45:ID:366:THR:OG1	2.13	0.49
45:ID:276:ARG:NH1	45:ID:276:ARG:CB	2.75	0.49
44:IE:238:LEU:HD21	44:IE:255:PHE:CE2	2.44	0.49
44:IE:319:TYR:CD1	44:IE:375:VAL:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:60:LYS:HD3	45:JH:281:TYR:CE1	2.48	0.49
45:IH:187:LEU:HD11	45:IH:408:PHE:CZ	2.47	0.49
44:II:205:ASP:OD2	44:II:304:LYS:N	2.45	0.49
44:II:284:GLU:HG3	44:II:286:LEU:HD21	1.90	0.49
44:II:388:PHE:HD2	44:II:428:LEU:HD22	1.78	0.49
45:IJ:265:PHE:CE2	45:IJ:378:PHE:HZ	2.30	0.49
44:IK:19:ALA:HA	44:IK:22:GLU:OE2	2.12	0.49
45:IN:186:THR:HG23	45:IN:415:MET:SD	2.53	0.49
44:JA:6:SER:O	44:JA:66:VAL:HG22	2.13	0.49
44:JA:261:PRO:HA	45:JD:394:PHE:HE2	1.74	0.49
44:JA:269:LEU:HD23	44:JA:269:LEU:H	1.78	0.49
44:JA:377:MET:HE1	44:JA:379:SER:HB3	1.95	0.49
44:JC:135:PHE:C	44:JC:136:LEU:HD12	2.32	0.49
44:JC:251:ASP:HB3	44:JC:253:THR:HG22	1.95	0.49
44:JE:297:GLU:CG	44:JE:298:PRO:HD2	2.43	0.49
44:JG:140:SER:O	44:JG:146:GLY:HA3	2.13	0.49
44:JG:155:GLU:HG2	44:JG:197:HIS:HD2	1.78	0.49
44:JG:413:MET:HE2	44:JG:417:GLU:CB	2.43	0.49
45:JH:21:TRP:HZ3	45:JH:51:TYR:HE1	1.61	0.49
45:JH:152:ILE:HG23	45:JH:164:MET:CE	2.43	0.49
45:JL:87:PRO:HA	45:JL:90:PHE:CD2	2.39	0.49
45:JL:166:THR:O	45:JL:167:PHE:HD1	1.94	0.49
44:KA:13:GLY:O	44:KA:16:VAL:HG22	2.13	0.49
45:KB:49:VAL:HG21	45:KB:240:LEU:CD2	2.43	0.49
45:KB:269:GLY:CA	45:KB:367:PHE:HB3	2.42	0.49
44:KE:141:VAL:HG12	44:KE:187:SER:HA	1.95	0.49
44:KE:209:ILE:HG22	44:KE:227:LEU:HD23	1.94	0.49
44:KE:416:GLY:O	44:KE:419:SER:OG	2.22	0.49
45:KF:10:GLY:O	45:KF:14:ASN:N	2.35	0.49
45:KH:202:ILE:HD11	45:KH:268:ILE:CG1	2.42	0.49
45:KH:318:ARG:HE	45:KH:358:PRO:HD3	1.77	0.49
44:KI:88:HIS:CE1	44:KI:89:PRO:HD2	2.47	0.49
45:KJ:310:TYR:HB2	45:KJ:341:PHE:CE2	2.48	0.49
44:KK:196:GLU:OE1	44:KK:196:GLU:N	2.39	0.49
44:KK:349:THR:O	45:KN:179:VAL:HA	2.13	0.49
44:KM:96:LYS:HA	45:KN:1:MET:HE1	1.94	0.49
45:KN:107:THR:CG2	45:KN:401:GLU:HG3	2.41	0.49
44:LC:11:GLN:NE2	45:LD:246:LEU:HA	2.27	0.49
44:LC:176:GLN:NE2	44:LC:207:GLU:OE2	2.46	0.49
44:LC:199:ASP:O	44:LC:266:HIS:HB2	2.12	0.49
45:LF:44:LEU:CD2	45:LF:47:ILE:HD12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:344:TRP:CE3	45:LF:345:ILE:HG23	2.47	0.49
45:LL:286:VAL:HB	45:LL:325:GLU:OE1	2.12	0.49
44:LM:33:ASP:OD1	44:LM:85:GLN:HB3	2.13	0.49
45:LN:208:TYR:HH	45:LN:222:TYR:HE1	1.59	0.49
44:MC:200:VAL:HG13	44:MC:268:MET:CE	2.43	0.49
44:ME:200:VAL:HG13	44:ME:268:MET:CE	2.43	0.49
44:ME:203:MET:CE	44:ME:203:MET:HA	2.43	0.49
45:MF:135:ILE:HG13	45:MF:152:ILE:CD1	2.36	0.49
45:MF:156:ARG:NH1	45:MF:162:ARG:O	2.46	0.49
45:MF:398:TYR:HB3	45:MF:403:MET:CE	2.43	0.49
44:MI:22:GLU:HG3	44:MI:83:TYR:OH	2.12	0.49
44:MI:98:ASP:O	44:MI:105:ARG:NH1	2.46	0.49
44:MI:294:SER:HA	44:MI:297:GLU:CG	2.43	0.49
45:MJ:101:TRP:HZ3	45:MJ:187:LEU:CB	2.25	0.49
45:MJ:141:GLY:HA3	48:MJ:502:GDP:PB	2.53	0.49
44:MK:264:ARG:NH2	44:MK:428:LEU:HB2	2.28	0.49
44:MK:425:LEU:O	44:MK:429:GLU:N	2.36	0.49
44:MM:115:VAL:HG11	44:MM:152:LEU:HD23	1.95	0.49
44:MM:136:LEU:CD2	44:MM:167:LEU:HB2	2.42	0.49
45:MN:242:PHE:CD1	45:MN:356:ILE:HG13	2.48	0.49
44:NA:265:ILE:HG23	44:NA:432:TYR:HE1	1.78	0.49
44:NC:7:ILE:CD1	44:NC:66:VAL:HG12	2.43	0.49
45:ND:178:THR:HG22	45:ND:180:VAL:H	1.78	0.49
44:NE:88:HIS:CE1	44:NE:90:GLU:HB2	2.47	0.49
44:NG:104:ALA:HA	44:NG:413:MET:HE3	1.94	0.49
44:NG:344:VAL:HG22	44:NG:345:ASP:H	1.78	0.49
45:NH:299:MET:HG3	45:NH:305:PRO:HG2	1.94	0.49
44:NI:11:GLN:HE22	45:NJ:246:LEU:CA	2.11	0.49
44:NI:185:TYR:HE1	44:NI:398:MET:HB2	1.77	0.49
45:NJ:119:VAL:O	45:NJ:122:LYS:HB2	2.12	0.49
45:NJ:265:PHE:CD2	45:NJ:378:PHE:HZ	2.31	0.49
44:NK:401:LYS:HE2	45:NL:428:ALA:HB1	1.95	0.49
45:NL:3:GLU:CD	45:NL:3:GLU:H	2.16	0.49
44:NM:158:SER:HA	44:NM:166:LYS:NZ	2.28	0.49
44:NM:364:PRO:HA	44:NM:365:GLY:HA2	1.53	0.49
45:NN:6:HIS:ND1	45:NN:134:GLN:HG3	2.28	0.49
45:NN:267:MET:HE1	45:NN:301:CYS:HB2	1.93	0.49
44:OA:194:LEU:HD11	44:OA:267:PHE:CZ	2.47	0.49
44:OA:276:ILE:HG13	44:OA:280:LYS:HE3	1.95	0.49
44:OA:328:VAL:HG12	44:OA:332:ILE:HD11	1.94	0.49
45:OB:267:MET:HE1	45:OB:301:CYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:390:ARG:HG3	44:OC:391:LEU:N	2.27	0.49
45:OD:309:ARG:N	45:OD:372:THR:OG1	2.46	0.49
45:OF:34:GLY:O	45:OF:58:ARG:HA	2.13	0.49
45:OF:206:ALA:O	45:OF:210:ILE:HG22	2.12	0.49
44:OG:28:HIS:HA	44:OG:243:ARG:NH2	2.27	0.49
45:OH:239:CYS:SG	45:OH:247:ASN:HA	2.52	0.49
44:OI:261:PRO:HG2	44:OI:313:MET:HE1	1.94	0.49
45:OJ:116:VAL:HA	45:OJ:119:VAL:CG2	2.42	0.49
45:OJ:193:VAL:O	45:OJ:193:VAL:HG22	2.12	0.49
45:OL:311:LEU:HD23	45:OL:311:LEU:H	1.77	0.49
45:OL:318:ARG:C	45:OL:357:PRO:HB3	2.33	0.49
44:OM:175:PRO:HG3	44:OM:390:ARG:NH1	2.27	0.49
45:ON:133:PHE:O	45:ON:165:GLU:N	2.44	0.49
45:ON:163:ILE:HG22	45:ON:164:MET:N	2.28	0.49
45:ON:251:ARG:HH11	45:ON:251:ARG:HG2	1.78	0.49
45:PB:46:ARG:HH22	45:PB:243:PRO:CD	2.26	0.49
45:PD:198:GLU:OE2	45:PD:254:ALA:HB2	2.11	0.49
45:PF:67:ASP:HB2	45:PF:73:MET:HE3	1.95	0.49
44:PG:248:LEU:CD2	44:PG:354:GLY:HA2	2.42	0.49
44:PI:306:ASP:HB3	44:PI:309:HIS:CE1	2.48	0.49
45:PJ:7:ILE:HG23	45:PJ:64:ILE:CG2	2.43	0.49
45:PJ:173:PRO:CG	45:PJ:380:ARG:HD3	2.43	0.49
44:PK:332:ILE:O	44:PK:336:LYS:HG2	2.13	0.49
45:PL:213:ARG:HH21	45:PL:297:LYS:HD2	1.78	0.49
45:PL:256:ASN:HD22	45:PL:350:LYS:CE	2.25	0.49
45:PL:360:GLY:O	45:PL:361:LEU:HD23	2.12	0.49
44:PM:3:GLU:OE2	44:PM:130:THR:HG22	2.13	0.49
44:PM:76:ASP:OD1	44:PM:79:ARG:NH2	2.26	0.49
44:PM:104:ALA:HB1	44:PM:411:GLU:O	2.13	0.49
44:PM:274:PRO:HG3	44:PM:286:LEU:HD12	1.94	0.49
44:QA:9:VAL:HB	44:QA:68:LEU:HB2	1.95	0.49
45:QB:12:CYS:SG	48:QB:501:GDP:H1'	2.52	0.49
44:QC:137:VAL:CG1	44:QC:168:GLY:HA2	2.43	0.49
44:QC:250:VAL:HG13	44:QC:254:GLU:O	2.12	0.49
44:QC:360:PRO:HG3	44:QC:374:ALA:HB3	1.95	0.49
44:QC:362:VAL:HG11	44:QC:370:LYS:HB3	1.95	0.49
44:QC:395:PHE:CE1	44:QC:399:TYR:HB2	2.48	0.49
45:QD:221:THR:HG22	45:QD:224:ASP:OD2	2.13	0.49
45:QD:309:ARG:NH2	45:QD:426:GLN:O	2.45	0.49
44:QE:320:ARG:NH1	44:QE:360:PRO:CA	2.74	0.49
44:QG:426:ALA:O	44:QG:429:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:36:TYR:CZ	45:QH:44:LEU:HG	2.48	0.49
45:QH:342:VAL:HG12	45:QH:343:GLU:N	2.28	0.49
44:QK:5:ILE:HD12	44:QK:132:LEU:HD11	1.95	0.49
44:QK:435:VAL:HA	45:QL:391:ARG:HH21	1.77	0.49
45:QL:378:PHE:HB2	45:QL:419:VAL:HG11	1.94	0.49
44:QM:153:LEU:O	44:QM:157:LEU:HG	2.13	0.49
44:RA:103:PHE:CE2	44:RA:147:SER:HB2	2.48	0.49
44:RA:209:ILE:HB	44:RA:227:LEU:HD22	1.95	0.49
44:RA:224:TYR:HB3	46:RA:501:GTP:O6	2.12	0.49
45:RB:202:ILE:HD11	45:RB:268:ILE:HG12	1.94	0.49
45:RB:345:ILE:O	45:RB:345:ILE:HG23	2.12	0.49
44:RC:155:GLU:HG2	44:RC:197:HIS:CD2	2.48	0.49
44:RC:329:ASN:HD21	45:RD:175:VAL:HG12	1.77	0.49
44:RC:362:VAL:O	44:RC:362:VAL:HG13	2.13	0.49
45:RD:62:ARG:HB2	45:RD:123:GLU:CD	2.33	0.49
45:RD:254:ALA:HA	45:RD:258:ILE:CD1	2.43	0.49
45:RF:259:PRO:CD	45:RF:370:ASN:HD22	2.26	0.49
44:RG:11:GLN:O	44:RG:14:ILE:N	2.46	0.49
44:RG:93:ILE:HD12	44:RG:93:ILE:H	1.78	0.49
45:RH:68:LEU:HD22	45:RH:147:MET:SD	2.52	0.49
44:RI:285:GLN:HG3	44:RI:287:SER:H	1.78	0.49
44:RI:326:LYS:HG2	45:RJ:220:PRO:HD2	1.94	0.49
44:RK:161:TYR:HB3	44:RK:164:LYS:HG2	1.92	0.49
44:RK:340:THR:HG23	44:RK:341:ILE:HG13	1.95	0.49
45:RL:385:PHE:HA	45:RL:388:MET:HE3	1.95	0.49
44:RM:231:ILE:HG22	44:RM:235:ILE:HG12	1.95	0.49
45:RN:11:GLN:NE2	45:RN:69:GLU:OE2	2.46	0.49
45:RN:68:LEU:HG	45:RN:96:GLY:CA	2.43	0.49
45:RN:154:LYS:HD3	45:RN:158:GLU:OE2	2.13	0.49
45:RN:183:TYR:HE2	45:RN:394:PHE:HB2	1.77	0.49
44:SA:143:GLY:N	46:SA:501:GTP:H5'	2.28	0.49
44:SA:270:SER:C	44:SA:302:MET:HE2	2.33	0.49
44:SA:275:ILE:CG1	44:SA:368:LEU:HD11	2.36	0.49
45:SB:286:VAL:HG22	45:SB:289:LEU:HD12	1.95	0.49
44:SC:288:VAL:HG23	44:SC:291:ILE:HD11	1.94	0.49
44:SC:323:VAL:HG13	44:SC:355:ILE:HG23	1.95	0.49
45:SD:135:ILE:CG2	45:SD:166:THR:HA	2.42	0.49
45:SD:217:LEU:HD11	45:SD:220:PRO:CB	2.43	0.49
44:SE:2:ARG:HB2	44:SE:133:GLN:HE22	1.78	0.49
44:SE:183:GLU:HG2	44:SE:184:PRO:HD3	1.95	0.49
45:SF:11:GLN:HA	45:SF:14:ASN:ND2	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:131:GLN:NE2	45:SF:251:ARG:HG3	2.27	0.49
45:SF:169:VAL:CG2	45:SF:202:ILE:HB	2.39	0.49
45:SF:253:LEU:O	45:SF:257:LEU:HD13	2.13	0.49
44:SG:268:MET:HG3	44:SG:378:ILE:HG22	1.95	0.49
45:SH:1:MET:HB2	45:SH:3:GLU:OE1	2.12	0.49
45:SH:305:PRO:HA	45:SH:373:ALA:HB3	1.94	0.49
44:SI:208:ALA:CB	44:SI:304:LYS:HG2	2.42	0.49
45:SJ:12:CYS:HB3	45:SJ:138:SER:CB	2.42	0.49
44:SK:132:LEU:HD22	44:SK:164:LYS:CD	2.43	0.49
45:SL:312:THR:CB	45:SL:348:ASN:HB2	2.43	0.49
44:SM:332:ILE:HD12	44:SM:351:PHE:CD2	2.47	0.49
44:TA:140:SER:HB2	46:TA:501:GTP:O4'	2.13	0.49
45:TB:288:GLU:O	45:TB:291:GLN:HG3	2.12	0.49
45:TB:315:ALA:HB3	45:TB:330:MET:HE3	1.93	0.49
45:TB:420:SER:O	45:TB:423:GLN:HG3	2.12	0.49
44:TC:60:LYS:HD3	44:UC:282:TYR:HB3	1.95	0.49
44:TC:356:ASN:OD1	44:TC:357:TYR:N	2.46	0.49
45:TD:342:VAL:HG21	45:TD:344:TRP:NE1	2.28	0.49
44:TE:23:LEU:HA	44:TE:26:LEU:HD21	1.95	0.49
44:TE:161:TYR:HD2	44:TE:164:LYS:CE	2.26	0.49
45:TF:138:SER:CA	45:TF:169:VAL:HB	2.43	0.49
44:TG:4:VAL:CG2	44:TG:136:LEU:HD23	2.43	0.49
44:TG:108:TYR:HA	44:TG:112:LYS:HG3	1.95	0.49
44:TG:311:LYS:CG	44:TG:342:GLN:HG3	2.35	0.49
45:TH:6:HIS:HB3	45:TH:63:ALA:CB	2.43	0.49
45:TH:242:PHE:CD1	45:TH:356:ILE:HG13	2.47	0.49
45:TH:245:GLN:C	45:TH:246:LEU:HD12	2.33	0.49
45:TH:325:GLU:O	45:TH:328:GLU:HG2	2.13	0.49
45:TJ:255:VAL:HG11	44:TK:100:ALA:O	2.13	0.49
44:TK:132:LEU:CD2	44:TK:164:LYS:HD2	2.43	0.49
44:TK:422:ARG:NH1	44:TK:426:ALA:HB2	2.27	0.49
45:TL:139:LEU:HD22	45:TL:188:SER:OG	2.13	0.49
44:TM:103:PHE:HB2	44:TM:186:ASN:HB2	1.95	0.49
44:TM:169:PHE:CE2	44:TM:202:VAL:HG23	2.47	0.49
44:TM:292:THR:HG23	44:TM:293:ASN:N	2.28	0.49
44:UA:73:THR:O	44:UA:76:ASP:N	2.46	0.49
44:UA:170:THR:O	44:UA:204:LEU:HD12	2.13	0.49
44:UA:183:GLU:HG2	44:UA:184:PRO:HD3	1.95	0.49
44:UA:353:VAL:HG21	45:UB:177:ASP:CG	2.32	0.49
45:UB:202:ILE:HD13	45:UB:229:VAL:HG22	1.95	0.49
44:UC:36:MET:CG	44:UC:37:PRO:HD2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:275:ILE:O	44:UC:276:ILE:HG13	2.13	0.49
44:UC:326:LYS:HG2	45:UD:212:PHE:CE2	2.47	0.49
45:UD:255:VAL:HA	44:UE:407:TRP:HH2	1.78	0.49
44:UE:103:PHE:HB3	44:UE:408:TYR:HE2	1.77	0.49
44:UE:155:GLU:HA	44:UE:197:HIS:CD2	2.48	0.49
44:UE:212:ILE:HD11	44:UE:300:ASN:HA	1.94	0.49
45:UF:246:LEU:HD13	44:UG:224:TYR:CE2	2.47	0.49
45:UF:288:GLU:O	45:UF:291:GLN:HG3	2.13	0.49
44:UG:232:ALA:O	44:UG:235:ILE:HB	2.13	0.49
45:UH:334:GLN:HA	45:UH:341:PHE:CE2	2.48	0.49
45:UH:342:VAL:HG22	45:UH:344:TRP:CD1	2.48	0.49
45:UH:412:GLU:O	45:UH:416:ASN:HB2	2.13	0.49
45:UJ:36:TYR:CE1	45:UJ:38:GLY:HA3	2.47	0.49
45:UJ:200:MET:HE1	45:UJ:268:ILE:HG23	1.95	0.49
45:UJ:311:LEU:HA	45:UJ:342:VAL:HG12	1.95	0.49
44:UK:213:CYS:SG	44:UK:217:LEU:HD12	2.52	0.49
44:UK:406:HIS:O	44:UK:410:GLY:N	2.44	0.49
45:UL:350:LYS:HZ3	44:UM:180:ALA:HB2	1.76	0.49
44:UM:357:TYR:O	44:UM:359:PRO:HD3	2.13	0.49
45:UN:350:LYS:HG2	45:UN:351:SER:N	2.28	0.49
44:VA:222:PRO:CG	45:VB:324:LYS:HD3	2.43	0.49
44:VA:286:LEU:CD1	44:VA:371:VAL:HG23	2.41	0.49
45:VB:375:GLN:O	45:VB:379:LYS:N	2.34	0.49
45:VD:326:VAL:O	45:VD:330:MET:HG2	2.13	0.49
45:VF:178:THR:O	45:VF:181:GLU:HG3	2.13	0.49
45:VF:200:MET:HA	45:VF:266:PHE:O	2.13	0.49
45:VH:416:ASN:O	45:VH:419:VAL:HB	2.12	0.49
44:VI:248:LEU:CB	44:VI:355:ILE:HD11	2.43	0.49
44:VI:278:ALA:HB2	44:VI:369:ALA:HB2	1.95	0.49
45:VJ:36:TYR:CE2	45:VJ:44:LEU:HD21	2.47	0.49
45:VL:101:TRP:HD1	45:VL:145:SER:OG	1.95	0.49
45:VN:68:LEU:HG	45:VN:68:LEU:O	2.11	0.49
45:VN:245:GLN:CB	45:VN:353:ILE:HG21	2.40	0.49
45:VN:420:SER:OG	45:VN:423:GLN:NE2	2.45	0.49
44:WA:7:ILE:HD13	44:WA:66:VAL:HG22	1.95	0.49
44:WA:171:ILE:HG23	44:WA:204:LEU:O	2.13	0.49
44:WA:186:ASN:CA	44:WA:189:LEU:HD12	2.39	0.49
44:WA:215:ARG:HH22	44:WA:300:ASN:HA	1.77	0.49
44:WA:387:VAL:HA	44:WA:390:ARG:HH11	1.76	0.49
45:WD:28:HIS:C	45:WD:43:GLN:HE21	2.16	0.49
45:WD:207:LEU:HD23	45:WD:211:CYS:SG	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:274:THR:HG23	45:WD:275:SER:O	2.13	0.49
45:WD:318:ARG:CZ	45:WD:358:PRO:HG3	2.43	0.49
45:WF:2:ARG:HG3	45:WF:240:LEU:HD11	1.95	0.49
45:WF:251:ARG:O	45:WF:255:VAL:HG23	2.13	0.49
45:WH:139:LEU:CD1	45:WH:168:SER:HB3	2.40	0.49
45:WH:409:THR:O	45:WH:413:SER:N	2.40	0.49
45:WJ:170:VAL:HG11	45:WJ:377:MET:SD	2.52	0.49
45:WL:142:GLY:O	45:WL:146:GLY:N	2.42	0.49
45:WL:143:THR:HG23	48:WL:501:GDP:O1B	2.13	0.49
45:WL:210:ILE:HG22	45:WL:215:LEU:HG	1.95	0.49
44:WM:285:GLN:N	44:WM:286:LEU:HA	2.28	0.49
44:WM:319:TYR:CD2	44:WM:323:VAL:HG11	2.48	0.49
2:1A:51:LYS:HE2	45:MF:45:GLU:CG	2.37	0.49
4:1C:83:SER:N	45:EL:320:ARG:HH21	2.10	0.49
5:1D:177:THR:HG21	45:EF:47:ILE:N	2.27	0.49
22:1L:757:TYR:OH	45:BD:321:MET:HA	2.12	0.49
23:1M:7:ILE:HD13	44:IC:43:GLY:HA2	1.95	0.49
24:1O:239:ILE:HD13	45:UB:280:GLN:CD	2.33	0.49
32:2I:95:LYS:HB3	45:GF:332:ASN:ND2	2.01	0.49
32:2I:125:LEU:HD13	44:GC:299:ALA:HA	1.93	0.49
21:2K:269:GLU:OE2	44:GK:370:LYS:HG2	2.12	0.49
22:2L:357:ILE:CG2	35:6R:102:SER:HG	1.92	0.49
22:2L:538:ARG:HG3	45:AN:44:LEU:HD13	1.95	0.49
22:2L:713:LEU:HG	45:CL:276:ARG:HH21	1.77	0.49
24:2O:427:LEU:HD22	44:VA:282:TYR:CE1	2.47	0.49
26:2R:292:ARG:NH1	45:DH:277:GLY:HA2	2.27	0.49
13:2T:139:TYR:HB2	45:MJ:108:GLU:OE2	2.13	0.49
15:2V:61:PRO:HG3	44:LE:110:ILE:HG23	1.95	0.49
13:3T:82:ALA:HB2	44:MK:414:GLU:HG2	1.95	0.49
37:5D:44:SER:OG	45:KN:393:ALA:O	2.31	0.49
37:5D:60:GLY:N	45:KN:385:PHE:H	2.10	0.49
38:5H:108:LYS:HG3	38:5H:110:ARG:HH12	1.77	0.49
35:5R:550:VAL:CA	35:5R:553:ILE:HG22	2.42	0.49
40:6F:107:ILE:HG22	40:6F:107:ILE:O	2.13	0.49
11:6Q:178:PRO:HD2	11:6Q:181:PHE:HB2	1.95	0.49
43:8R:154:UNK:CA	45:PJ:276:ARG:HH12	2.26	0.49
44:AA:183:GLU:HG2	44:AA:184:PRO:N	2.28	0.49
44:AA:434:GLU:O	44:AA:437:ILE:HG12	2.13	0.49
45:AB:398:TYR:O	45:AB:401:GLU:N	2.46	0.49
44:AC:80:THR:OG1	44:AC:84:ARG:NH2	2.46	0.49
44:AC:407:TRP:HH2	45:AD:254:ALA:HB1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AE:135:PHE:HZ	44:AE:161:TYR:CE2	2.30	0.49
45:AF:163:ILE:HD11	45:AF:250:LEU:HD12	1.94	0.49
45:AH:22:GLU:HA	45:AH:81:PHE:HD2	1.78	0.49
45:AH:221:THR:O	45:AH:224:ASP:N	2.45	0.49
45:AH:372:THR:HA	45:AH:422:TYR:CE2	2.45	0.49
45:AJ:143:THR:HG22	48:AJ:501:GDP:O2B	2.13	0.49
45:AJ:398:TYR:HD2	45:AJ:408:PHE:CZ	2.30	0.49
44:AK:141:VAL:HG12	44:AK:171:ILE:O	2.13	0.49
45:AL:139:LEU:HG	45:AL:188:SER:HB2	1.95	0.49
45:AL:162:ARG:NE	45:AL:162:ARG:HA	2.28	0.49
45:AN:405:GLU:HA	45:AN:408:PHE:CD2	2.46	0.49
44:BC:31:GLN:HB3	44:BC:32:PRO:CD	2.43	0.49
44:BC:67:PHE:C	44:BC:68:LEU:HD22	2.33	0.49
45:BD:134:GLN:HG3	45:BD:165:GLU:CB	2.42	0.49
45:BD:303:ALA:O	45:BD:305:PRO:HD3	2.12	0.49
44:BE:248:LEU:HD23	44:BE:355:ILE:CD1	2.42	0.49
44:BE:398:MET:HE2	45:BF:345:ILE:HA	1.95	0.49
45:BF:348:ASN:O	45:BF:349:ILE:HD13	2.13	0.49
44:BG:179:THR:HG23	45:BH:351:SER:CB	2.25	0.49
44:BG:199:ASP:OD2	44:BG:256:GLN:HG2	2.12	0.49
45:BH:55:THR:OG1	45:CF:283:ALA:HA	2.13	0.49
44:BI:62:VAL:O	44:BI:62:VAL:HG13	2.13	0.49
44:BI:250:VAL:HG13	44:BI:254:GLU:O	2.13	0.49
45:BJ:274:THR:HG21	45:BJ:279:GLN:CB	2.43	0.49
45:BJ:396:HIS:CA	45:BJ:399:THR:HG22	2.39	0.49
44:BK:289:ALA:HA	44:BK:331:SER:OG	2.12	0.49
45:BL:107:THR:HG23	45:BL:108:GLU:H	1.76	0.49
45:BL:266:PHE:CD1	45:BL:370:ASN:HB2	2.48	0.49
44:BM:3:GLU:HG3	44:BM:129:CYS:CB	2.42	0.49
44:BM:219:ILE:HG22	44:BM:221:ARG:H	1.78	0.49
45:BN:97:ALA:HB2	45:BN:143:THR:HB	1.95	0.49
44:CA:235:ILE:HA	44:CA:238:LEU:HB2	1.94	0.49
44:CA:296:PHE:CE2	44:CA:335:ILE:HG21	2.47	0.49
44:CA:392:ASP:CG	44:CA:425:LEU:HD13	2.33	0.49
45:CB:16:ILE:O	45:CB:20:PHE:HB2	2.13	0.49
44:CC:175:PRO:HB2	44:CC:176:GLN:OE1	2.12	0.49
45:CD:4:ILE:CG2	45:CD:131:GLN:HB3	2.43	0.49
44:CE:268:MET:HB2	44:CE:380:ASN:HA	1.95	0.49
45:CF:282:ARG:HH12	45:CF:292:GLN:HE22	1.61	0.49
44:CG:141:VAL:HG21	44:CG:172:TYR:HE1	1.76	0.49
44:CG:387:VAL:HA	44:CG:390:ARG:CG	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:413:MET:HG3	44:CG:417:GLU:HG3	1.94	0.49
45:CH:327:ASP:HB3	44:CI:177:VAL:CG2	2.42	0.49
44:CI:290:GLU:HA	44:CI:293:ASN:HB2	1.93	0.49
45:CJ:240:LEU:HD12	45:CJ:249:ASP:OD1	2.13	0.49
45:CJ:324:LYS:HE3	44:CK:210:TYR:CD2	2.47	0.49
44:CK:145:THR:N	46:CK:501:GTP:O2G	2.44	0.49
44:CK:190:SER:O	44:CK:193:SER:N	2.45	0.49
44:CK:268:MET:HG3	44:CK:378:ILE:HG22	1.95	0.49
44:CM:271:SER:OG	44:CM:301:MET:HA	2.13	0.49
45:CN:20:PHE:HA	45:CN:230:SER:OG	2.12	0.49
44:DA:240:ALA:CB	44:DA:244:PHE:HD2	2.21	0.49
45:DB:387:ALA:O	45:DB:390:ARG:HG2	2.13	0.49
45:DD:231:ALA:HA	45:DD:234:SER:OG	2.13	0.49
44:DE:305:CYS:SG	44:DE:384:ILE:HD13	2.53	0.49
45:DF:143:THR:HG23	45:DF:144:GLY:N	2.27	0.49
45:DF:384:GLN:NE2	45:DF:384:GLN:HA	2.27	0.49
45:DH:163:ILE:HG12	45:DH:251:ARG:HH21	1.76	0.49
45:DH:263:LEU:HD23	45:DH:422:TYR:CD1	2.48	0.49
44:DI:15:GLN:O	44:DI:18:ASN:HB2	2.13	0.49
44:DI:304:LYS:HG3	44:DI:304:LYS:O	2.13	0.49
45:DL:321:MET:HB2	44:DM:221:ARG:NH2	2.28	0.49
44:DM:49:PHE:O	44:DM:53:PHE:HB2	2.12	0.49
44:DM:272:TYR:CD1	44:DM:376:CYS:HB2	2.47	0.49
45:DN:185:ALA:O	45:DN:189:VAL:HG23	2.12	0.49
45:DN:385:PHE:O	45:DN:389:PHE:N	2.45	0.49
44:EA:322:ASP:OD2	44:EA:372:MET:HB2	2.13	0.49
45:EB:350:LYS:HZ3	44:EC:179:THR:C	2.15	0.49
44:EC:73:THR:O	44:EC:76:ASP:HB2	2.12	0.49
44:EC:174:SER:CB	44:EC:207:GLU:HB2	2.42	0.49
45:ED:313:ALA:HB2	45:ED:369:GLY:HA3	1.94	0.49
44:EE:123:ARG:NH2	44:EE:124:LYS:HE2	2.22	0.49
44:EE:278:ALA:HA	44:EE:369:ALA:CB	2.27	0.49
45:EF:187:LEU:HD11	45:EF:408:PHE:CE1	2.48	0.49
45:EF:202:ILE:HD11	45:EF:268:ILE:CD1	2.43	0.49
45:EF:254:ALA:O	44:EG:407:TRP:HH2	1.96	0.49
44:EG:22:GLU:HG3	44:EG:83:TYR:OH	2.13	0.49
44:EG:62:VAL:O	44:EG:62:VAL:HG13	2.12	0.49
44:EG:247:ALA:HB3	44:EG:355:ILE:HD12	1.94	0.49
45:EH:203:ASP:CG	45:EH:302:ALA:H	2.12	0.49
45:EH:255:VAL:HG21	44:EI:100:ALA:O	2.12	0.49
45:EH:317:PHE:HA	45:EH:365:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:209:ILE:HG12	44:EK:302:MET:SD	2.53	0.49
44:EK:310:GLY:HA3	44:EK:383:ALA:HB2	1.93	0.49
45:EL:178:THR:HG22	45:EL:180:VAL:HG12	1.93	0.49
45:EL:217:LEU:HD11	45:EL:220:PRO:N	2.28	0.49
45:EL:314:SER:HA	45:EL:350:LYS:H	1.77	0.49
44:EM:1:MET:O	44:EM:131:GLY:HA3	2.13	0.49
44:EM:263:PRO:O	44:EM:266:HIS:HD2	1.96	0.49
45:FB:274:THR:OG1	45:FB:278:SER:O	2.28	0.49
45:FB:344:TRP:CE3	45:FB:345:ILE:HB	2.48	0.49
44:FC:235:ILE:HD12	44:FC:235:ILE:H	1.77	0.49
44:FE:99:ALA:HB3	44:FE:145:THR:HB	1.91	0.49
45:FF:65:LEU:HB3	45:FF:73:MET:SD	2.52	0.49
45:FF:263:LEU:HD23	45:FF:422:TYR:CE1	2.47	0.49
45:FF:391:ARG:CZ	45:FF:391:ARG:HB3	2.43	0.49
44:FG:141:VAL:HG11	44:FG:172:TYR:CD1	2.45	0.49
44:FG:141:VAL:HG21	44:FG:172:TYR:CE1	2.48	0.49
44:FG:417:GLU:O	44:FG:420:GLU:HG2	2.13	0.49
45:FH:36:TYR:CD1	45:FH:44:LEU:HD21	2.47	0.49
45:FH:227:HIS:HA	45:FH:230:SER:HB2	1.95	0.49
45:FH:248:SER:CB	45:FH:252:LYS:HD2	2.42	0.49
44:FI:27:GLU:HG2	44:FI:243:ARG:HH12	1.77	0.49
44:FI:51:THR:OG1	44:FI:243:ARG:HB3	2.13	0.49
44:FI:117:LEU:O	44:FI:120:ASP:HB2	2.13	0.49
44:FI:386:GLU:O	44:FI:389:SER:OG	2.17	0.49
45:FJ:229:VAL:HG12	45:FJ:233:MET:HE2	1.95	0.49
45:FJ:325:GLU:HA	45:FJ:328:GLU:HG2	1.95	0.49
44:FK:153:LEU:O	44:FK:157:LEU:HG	2.12	0.49
44:FK:278:ALA:HB1	44:FK:282:TYR:CE2	2.47	0.49
44:FM:118:CYS:O	44:FM:122:ILE:HG23	2.13	0.49
44:FM:271:SER:OG	44:FM:301:MET:SD	2.71	0.49
45:FN:257:LEU:HA	45:FN:312:THR:HG21	1.95	0.49
44:GA:179:THR:O	45:GB:350:LYS:HG3	2.13	0.49
44:GA:284:GLU:O	44:GA:286:LEU:HD23	2.13	0.49
45:GD:299:MET:HG3	45:GD:305:PRO:HG2	1.95	0.49
45:GD:319:GLY:O	45:GD:355:ASP:HA	2.13	0.49
45:GD:415:MET:O	45:GD:419:VAL:HG23	2.12	0.49
45:GJ:130:LEU:HD21	45:GJ:133:PHE:CZ	2.48	0.49
45:GL:193:VAL:HA	45:GL:264:HIS:CE1	2.48	0.49
45:GL:200:MET:HE3	45:GL:266:PHE:HD2	1.78	0.49
44:GM:2:ARG:HH21	44:GM:243:ARG:CA	2.25	0.49
45:GN:221:THR:O	45:GN:224:ASP:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:191:THR:HA	44:HA:194:LEU:HG	1.94	0.49
45:HB:294:PHE:CD2	45:HB:333:VAL:HG11	2.48	0.49
45:HB:388:MET:CG	45:HB:393:ALA:HB3	2.34	0.49
44:HC:103:PHE:HB3	44:HC:408:TYR:HE2	1.77	0.49
45:HH:156:ARG:NH1	45:HH:162:ARG:O	2.43	0.49
45:HH:309:ARG:HD2	45:HH:339:SER:O	2.12	0.49
44:HI:27:GLU:HB2	44:HI:361:THR:HG21	1.95	0.49
44:HI:66:VAL:HG13	44:HI:66:VAL:O	2.12	0.49
45:HJ:189:VAL:HG21	45:HJ:415:MET:CE	2.43	0.49
45:HJ:378:PHE:HA	45:HJ:381:VAL:HG12	1.93	0.49
44:HK:344:VAL:HG21	44:HK:346:TRP:CE2	2.48	0.49
45:HL:383:GLU:O	45:HL:386:THR:HG22	2.12	0.49
44:HM:132:LEU:HD11	44:HM:135:PHE:CE1	2.48	0.49
44:IA:182:VAL:HG11	45:IB:255:VAL:CG1	2.43	0.49
45:IB:47:ILE:HD11	45:IB:51:TYR:HD2	1.78	0.49
45:IB:254:ALA:HA	45:IB:257:LEU:CG	2.42	0.49
45:IB:342:VAL:HG13	45:IB:345:ILE:CG2	2.43	0.49
45:IF:7:ILE:CG1	45:IF:135:ILE:HD12	2.43	0.49
45:IF:240:LEU:O	45:IF:240:LEU:HD23	2.12	0.49
45:IH:146:GLY:O	45:IH:149:THR:HG22	2.12	0.49
45:IJ:391:ARG:O	45:IJ:392:LYS:HG2	2.13	0.49
44:IK:71:GLU:OE1	44:IK:73:THR:HB	2.13	0.49
44:IK:202:VAL:HA	44:IK:268:MET:O	2.13	0.49
45:IL:282:ARG:NH2	45:IL:288:GLU:HB3	2.26	0.49
44:IM:88:HIS:O	44:IM:92:LEU:HD13	2.13	0.49
45:IN:187:LEU:HD11	45:IN:408:PHE:HE1	1.73	0.49
44:JA:4:VAL:O	44:JA:4:VAL:HG13	2.13	0.49
44:JA:19:ALA:CB	44:JA:228:ASN:HB3	2.33	0.49
44:JA:411:GLU:HA	44:JA:411:GLU:OE2	2.12	0.49
45:JB:102:ALA:HB1	45:JB:401:GLU:HB2	1.95	0.49
44:JC:115:VAL:HG11	44:JC:152:LEU:HD23	1.95	0.49
45:JD:274:THR:HG21	45:JD:282:ARG:HE	1.77	0.49
45:JF:49:VAL:HG21	45:JF:241:ARG:CD	2.42	0.49
45:JF:141:GLY:HA2	48:JF:501:GDP:O2A	2.12	0.49
45:JF:315:ALA:N	45:JF:350:LYS:HE3	2.27	0.49
44:JG:90:GLU:HB3	44:KG:280:LYS:HE2	1.94	0.49
45:JH:304:ASP:OD2	45:JH:307:HIS:NE2	2.45	0.49
44:JI:56:THR:HG22	44:JI:60:LYS:O	2.13	0.49
44:JI:340:THR:HG23	44:JI:341:ILE:CD1	2.40	0.49
45:JJ:66:MET:HB3	45:JJ:91:VAL:HG12	1.94	0.49
44:JM:167:LEU:HD21	44:JM:255:PHE:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:374:ILE:HG13	45:JN:377:MET:CE	2.42	0.49
44:KC:224:TYR:CD1	45:KD:323:THR:HG21	2.47	0.49
44:KE:62:VAL:HG23	44:KE:62:VAL:O	2.12	0.49
45:KF:391:ARG:HG3	45:KF:391:ARG:NH1	2.28	0.49
44:KG:220:GLU:O	44:KG:221:ARG:NE	2.46	0.49
45:KH:1:MET:C	45:KH:2:ARG:HG2	2.34	0.49
45:KH:318:ARG:HE	45:KH:358:PRO:HG3	1.77	0.49
44:KI:237:SER:HA	44:KI:320:ARG:NH2	2.11	0.49
45:KJ:396:HIS:CD2	45:KJ:397:TRP:CD1	3.01	0.49
44:KK:258:ASN:HA	45:KN:179:VAL:CG1	2.43	0.49
44:KK:276:ILE:HD12	44:KK:280:LYS:HZ2	1.78	0.49
45:KL:193:VAL:HG23	45:KL:264:HIS:CE1	2.48	0.49
44:KM:276:ILE:HD11	44:KM:280:LYS:CD	2.34	0.49
44:KM:288:VAL:HA	44:KM:291:ILE:HG12	1.95	0.49
45:KN:166:THR:OG1	45:KN:168:SER:OG	2.31	0.49
44:LA:103:PHE:H	44:LA:408:TYR:HE1	1.61	0.49
44:LA:259:LEU:HA	44:LA:314:ALA:CB	2.43	0.49
45:LB:296:ALA:CA	45:LB:305:PRO:HG2	2.34	0.49
44:LC:221:ARG:NH1	45:LD:325:GLU:OE1	2.46	0.49
44:LC:289:ALA:O	44:LC:292:THR:HG22	2.12	0.49
45:LD:77:ARG:HH12	45:LD:83:GLN:HA	1.78	0.49
44:LE:258:ASN:ND2	45:LH:179:VAL:HG22	2.28	0.49
44:LE:263:PRO:HD3	45:LH:396:HIS:CD2	2.47	0.49
45:LF:207:LEU:HD12	45:LF:225:LEU:HD23	1.95	0.49
45:LH:139:LEU:HD22	45:LH:188:SER:CB	2.43	0.49
45:LJ:215:LEU:O	45:LJ:275:SER:HB2	2.13	0.49
45:LL:62:ARG:HD3	45:LL:123:GLU:OE2	2.13	0.49
45:LL:417:ASP:O	45:LL:420:SER:OG	2.24	0.49
45:LN:24:ILE:HD11	45:LN:234:SER:HB3	1.94	0.49
44:MA:195:LEU:HD11	44:MA:428:LEU:CD1	2.42	0.49
44:MA:265:ILE:CD1	44:MA:435:VAL:HG11	2.43	0.49
44:MC:88:HIS:HB3	44:MC:91:GLN:CG	2.43	0.49
45:MD:2:ARG:HH22	45:MD:46:ARG:HH11	1.61	0.49
45:MD:170:VAL:HG22	45:MD:203:ASP:OD1	2.12	0.49
44:ME:223:THR:CB	45:MF:322:SER:HB3	2.42	0.49
44:ME:370:LYS:O	44:ME:370:LYS:HG3	2.13	0.49
45:MF:116:VAL:HA	45:MF:119:VAL:CG2	2.42	0.49
45:MF:268:ILE:HG22	45:MF:368:VAL:HG22	1.94	0.49
44:MG:22:GLU:HG3	44:MG:83:TYR:HE2	1.75	0.49
44:MI:265:ILE:HG13	44:MI:432:TYR:CE1	2.48	0.49
45:MJ:178:THR:CG2	45:MJ:180:VAL:HG12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:103:PHE:CE1	44:MK:148:GLY:HA2	2.47	0.49
44:MK:209:ILE:HD11	44:MK:302:MET:HE3	1.92	0.49
45:ML:21:TRP:CZ3	45:ML:51:TYR:HE1	2.31	0.49
44:MM:93:ILE:HD12	44:MM:93:ILE:H	1.78	0.49
45:MN:287:PRO:HA	45:MN:329:GLN:NE2	2.28	0.49
45:ND:5:VAL:HG22	45:ND:6:HIS:H	1.78	0.49
45:ND:95:THR:HG23	45:ND:96:GLY:N	2.27	0.49
44:NE:244:PHE:CE2	44:NE:358:GLN:HG2	2.48	0.49
44:NG:34:GLY:HA3	44:NG:60:LYS:HB2	1.95	0.49
44:NI:108:TYR:CE1	44:NI:413:MET:HE3	2.48	0.49
45:NJ:3:GLU:O	45:NJ:130:LEU:HD12	2.13	0.49
45:NJ:63:ALA:O	45:NJ:64:ILE:HD13	2.13	0.49
45:NJ:88:ASP:OD2	45:OJ:278:SER:HB2	2.13	0.49
45:NL:67:ASP:C	45:NL:68:LEU:HD22	2.33	0.49
45:NL:207:LEU:HD13	45:NL:225:LEU:CB	2.43	0.49
44:NM:67:PHE:O	44:NM:68:LEU:HD12	2.13	0.49
44:NM:268:MET:HG2	44:NM:379:SER:O	2.13	0.49
45:NN:131:GLN:C	45:NN:162:ARG:HD3	2.33	0.49
44:OA:89:PRO:HG3	44:PA:280:LYS:NZ	2.28	0.49
44:OA:237:SER:HA	44:OA:320:ARG:NH1	2.25	0.49
44:OA:326:LYS:NZ	45:OD:220:PRO:HB2	2.28	0.49
45:OB:7:ILE:HB	45:OB:135:ILE:HD13	1.95	0.49
44:OC:119:LEU:CD1	44:OC:156:ARG:HG3	2.42	0.49
45:OD:77:ARG:HG2	45:OD:82:GLY:O	2.13	0.49
44:OE:311:LYS:HD2	44:OE:342:GLN:CB	2.42	0.49
45:OF:143:THR:HG23	45:OF:144:GLY:N	2.28	0.49
45:OF:173:PRO:CD	45:OF:380:ARG:HD3	2.42	0.49
45:OF:200:MET:HE3	45:OF:266:PHE:CD2	2.48	0.49
44:OG:69:ASP:OD1	44:OG:70:LEU:N	2.45	0.49
44:OG:372:MET:N	44:OG:372:MET:SD	2.85	0.49
45:OH:138:SER:OG	45:OH:141:GLY:N	2.42	0.49
45:OH:149:THR:OG1	45:OH:191:GLN:HB2	2.13	0.49
44:OI:27:GLU:OE1	44:OI:243:ARG:NH2	2.42	0.49
44:OI:179:THR:CG2	45:OJ:351:SER:HB2	2.43	0.49
44:OI:267:PHE:C	44:OI:268:MET:HE2	2.33	0.49
44:OI:419:SER:O	44:OI:422:ARG:HB3	2.13	0.49
45:OJ:119:VAL:O	45:OJ:123:GLU:HG2	2.13	0.49
45:OJ:303:ALA:HB1	45:OJ:373:ALA:HB1	1.94	0.49
45:OJ:397:TRP:O	45:OJ:400:GLY:N	2.37	0.49
44:OM:71:GLU:OE2	44:OM:73:THR:HG23	2.13	0.49
44:OM:177:VAL:HG22	45:ON:331:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:269:GLY:O	45:ON:366:THR:HA	2.12	0.49
45:ON:315:ALA:C	45:ON:316:LEU:HD22	2.34	0.49
44:PA:270:SER:O	44:PA:302:MET:HE1	2.13	0.49
44:PA:370:LYS:HD3	44:PA:370:LYS:O	2.12	0.49
44:PC:14:ILE:HD11	44:PC:69:ASP:HB2	1.95	0.49
44:PC:203:MET:HE2	44:PC:205:ASP:CB	2.38	0.49
44:PE:191:THR:O	44:PE:195:LEU:N	2.46	0.49
44:PG:1:MET:HE1	45:PJ:94:GLN:CG	2.43	0.49
45:PH:23:VAL:HG21	45:PH:230:SER:HB3	1.95	0.49
44:PI:256:GLN:HG3	45:PL:397:TRP:HH2	1.78	0.49
45:PJ:1:MET:HE1	45:PJ:129:CYS:HB3	1.95	0.49
45:PJ:19:LYS:HG2	45:PJ:226:ASN:O	2.13	0.49
45:PJ:256:ASN:ND2	45:PJ:350:LYS:HD2	2.28	0.49
44:PK:175:PRO:HD2	44:PK:207:GLU:OE1	2.12	0.49
45:PL:186:THR:HG21	45:PL:385:PHE:CD2	2.48	0.49
44:PM:185:TYR:HA	44:PM:395:PHE:CD1	2.43	0.49
44:QA:97:GLU:HG2	44:QA:105:ARG:HH22	1.78	0.49
44:QA:278:ALA:HA	44:QA:369:ALA:HB2	1.94	0.49
45:QB:12:CYS:CB	45:QB:138:SER:HB2	2.39	0.49
45:QB:69:GLU:OE2	45:QB:72:THR:HG23	2.13	0.49
44:QC:75:ILE:O	44:QC:78:VAL:N	2.45	0.49
44:QC:360:PRO:HG3	44:QC:374:ALA:CB	2.42	0.49
45:QD:113:ILE:CD1	45:QD:150:LEU:HD22	2.43	0.49
44:QE:221:ARG:N	44:QE:222:PRO:HD3	2.28	0.49
44:QE:265:ILE:HG23	44:QE:432:TYR:HE1	1.78	0.49
45:QF:202:ILE:HD11	45:QF:268:ILE:HD11	1.94	0.49
45:QF:325:GLU:O	45:QF:328:GLU:HG2	2.12	0.49
44:QG:62:VAL:HG22	44:RG:283:HIS:HB3	1.94	0.49
44:QG:200:VAL:HG13	44:QG:268:MET:SD	2.53	0.49
44:QI:115:VAL:HG23	44:QI:153:LEU:CD2	2.43	0.49
44:QI:166:LYS:C	44:QI:167:LEU:HD12	2.33	0.49
44:QI:248:LEU:HD21	44:QI:353:VAL:HG13	1.95	0.49
44:QI:286:LEU:HA	44:QI:290:GLU:OE2	2.13	0.49
45:QJ:25:SER:HA	45:QJ:30:ILE:CG1	2.42	0.49
45:QJ:256:ASN:CG	44:QK:181:VAL:HG22	2.32	0.49
44:QK:287:SER:O	44:QK:291:ILE:HG23	2.12	0.49
45:QL:164:MET:N	45:QL:197:ASP:OD2	2.46	0.49
45:QL:170:VAL:HG21	45:QL:201:VAL:HB	1.95	0.49
44:QM:106:GLY:O	44:QM:149:LEU:HD22	2.13	0.49
44:QM:107:HIS:NE2	44:QM:152:LEU:HB2	2.28	0.49
45:QN:21:TRP:HH2	45:QN:63:ALA:HB1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:406:MET:O	45:QN:409:THR:HB	2.13	0.49
45:RB:246:LEU:HD23	46:RC:501:GTP:H5''	1.94	0.49
45:RB:267:MET:HB2	45:RB:301:CYS:SG	2.53	0.49
44:RC:91:GLN:O	44:RC:93:ILE:HD12	2.12	0.49
44:RE:19:ALA:HA	44:RE:22:GLU:OE1	2.13	0.49
44:RE:424:ASP:O	44:RE:428:LEU:N	2.32	0.49
45:RF:7:ILE:HG23	45:RF:64:ILE:HG22	1.95	0.49
45:RH:323:THR:O	45:RH:326:VAL:N	2.46	0.49
45:RJ:285:THR:O	45:RJ:289:LEU:N	2.45	0.49
45:RL:2:ARG:HB2	45:RL:131:GLN:OE1	2.13	0.49
45:RL:28:HIS:HE2	45:RL:241:ARG:HH22	1.60	0.49
45:RL:47:ILE:HD11	45:RL:59:TYR:CE2	2.47	0.49
44:RM:118:CYS:HB3	44:RM:120:ASP:HA	1.94	0.49
44:RM:122:ILE:HA	44:RM:125:LEU:HB2	1.94	0.49
44:RM:150:GLY:O	44:RM:153:LEU:N	2.44	0.49
44:RM:194:LEU:HD11	44:RM:267:PHE:HZ	1.78	0.49
44:RM:237:SER:HA	44:RM:320:ARG:NH1	2.28	0.49
44:RM:349:THR:O	45:RN:179:VAL:HG12	2.13	0.49
44:SA:257:THR:HA	45:SB:397:TRP:HE1	1.75	0.49
45:SB:146:GLY:O	45:SB:149:THR:HG22	2.12	0.49
45:SB:317:PHE:CE2	45:SB:326:VAL:HG13	2.48	0.49
44:SC:17:GLY:HA2	44:SC:20:CYS:SG	2.53	0.49
44:SC:301:MET:HG3	44:SC:303:ALA:N	2.13	0.49
45:SD:142:GLY:O	45:SD:146:GLY:N	2.32	0.49
45:SF:99:ASN:HA	45:SF:142:GLY:N	2.28	0.49
45:SF:309:ARG:HD3	45:SF:339:SER:O	2.12	0.49
44:SG:166:LYS:C	44:SG:167:LEU:HD12	2.33	0.49
44:SG:204:LEU:HD23	44:SG:302:MET:HG3	1.94	0.49
45:SH:256:ASN:ND2	45:SH:350:LYS:HD2	2.18	0.49
45:SJ:113:ILE:HA	45:SJ:116:VAL:CG1	2.42	0.49
45:SL:268:ILE:CG1	45:SL:300:MET:HE2	2.39	0.49
45:SL:284:LEU:HD12	45:SL:362:LYS:HE2	1.95	0.49
44:SM:348:PRO:HD2	45:SN:388:MET:CE	2.43	0.49
45:SN:206:ALA:CB	45:SN:301:CYS:HA	2.43	0.49
45:SN:268:ILE:O	45:SN:300:MET:HG2	2.12	0.49
45:SN:405:GLU:O	45:SN:409:THR:N	2.45	0.49
44:TA:89:PRO:CD	44:UA:280:LYS:HD2	2.42	0.49
44:TA:167:LEU:HG	44:TA:200:VAL:HG21	1.95	0.49
45:TB:47:ILE:HD13	45:TB:59:TYR:CD2	2.48	0.49
44:TC:183:GLU:HA	44:TC:186:ASN:ND2	2.28	0.49
44:TC:269:LEU:O	44:TC:379:SER:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TC:324:VAL:HG12	44:TC:326:LYS:H	1.78	0.49
45:TD:28:HIS:C	45:TD:43:GLN:HE21	2.10	0.49
45:TD:114:ASP:OD1	45:TD:115:SER:N	2.46	0.49
45:TD:116:VAL:O	45:TD:119:VAL:HG12	2.13	0.49
45:TD:181:GLU:HA	45:TD:184:ASN:OD1	2.13	0.49
45:TD:318:ARG:HA	45:TD:354:CYS:O	2.12	0.49
44:TE:23:LEU:HA	44:TE:26:LEU:CD2	2.43	0.49
44:TE:115:VAL:HG21	44:TE:152:LEU:HG	1.94	0.49
44:TE:241:SER:HB2	44:TE:249:ASN:HD22	1.78	0.49
45:TF:99:ASN:HA	45:TF:142:GLY:H	1.77	0.49
45:TH:242:PHE:CD1	45:TH:356:ILE:HG21	2.48	0.49
44:TI:23:LEU:O	44:TI:27:GLU:HB2	2.12	0.49
45:TJ:68:LEU:HG	45:TJ:96:GLY:CA	2.41	0.49
44:TK:144:GLY:O	44:TK:147:SER:N	2.42	0.49
45:TL:272:PRO:HD2	45:TL:361:LEU:HD13	1.94	0.49
44:TM:189:LEU:HD23	44:TM:421:ALA:CB	2.42	0.49
44:TM:241:SER:OG	44:TM:250:VAL:O	2.24	0.49
44:TM:257:THR:HA	45:TN:397:TRP:CE2	2.48	0.49
44:UA:149:LEU:O	44:UA:153:LEU:HG	2.12	0.49
45:UB:261:PRO:HD3	44:UC:406:HIS:CD2	2.48	0.49
45:UB:267:MET:HG2	45:UB:369:GLY:O	2.12	0.49
44:UC:271:SER:N	44:UC:302:MET:HE1	2.28	0.49
44:UC:316:SER:O	44:UC:378:ILE:N	2.36	0.49
45:UD:156:ARG:NH1	45:UD:162:ARG:O	2.46	0.49
45:UD:309:ARG:HB2	45:UD:426:GLN:HG3	1.95	0.49
44:UE:200:VAL:HG23	44:UE:268:MET:CE	2.43	0.49
44:UE:319:TYR:HE1	44:UE:375:VAL:HG21	1.77	0.49
45:UF:215:LEU:HD11	45:UF:228:LEU:HD11	1.94	0.49
44:UG:70:LEU:HD11	44:UG:149:LEU:HD21	1.95	0.49
45:UH:5:VAL:CG1	45:UH:62:ARG:HD3	2.33	0.49
45:UH:322:SER:HG	45:UH:325:GLU:H	1.55	0.49
44:UI:23:LEU:HD11	44:UI:233:GLN:OE1	2.13	0.49
44:UI:298:PRO:O	44:UI:301:MET:HE2	2.12	0.49
45:UL:135:ILE:HB	45:UL:166:THR:HG22	1.93	0.49
45:UL:169:VAL:HG13	45:UL:202:ILE:O	2.12	0.49
45:UL:259:PRO:HA	44:UM:404:PHE:CE1	2.46	0.49
45:UL:324:LYS:HD2	44:UM:210:TYR:CD1	2.47	0.49
44:UM:9:VAL:HG21	44:UM:149:LEU:CB	2.42	0.49
44:UM:317:MET:HG2	44:UM:378:ILE:N	2.27	0.49
44:UM:317:MET:CB	44:UM:377:MET:HE1	2.40	0.49
44:VA:182:VAL:HG22	44:VA:182:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:312:TYR:HB2	44:VA:343:PHE:CD1	2.48	0.49
45:VB:7:ILE:HD11	45:VB:64:ILE:HD13	1.95	0.49
45:VB:178:THR:HG22	45:VB:180:VAL:HG12	1.94	0.49
45:VD:213:ARG:NH2	45:VD:297:LYS:HE3	2.20	0.49
45:VD:360:GLY:O	45:VD:361:LEU:HD23	2.12	0.49
44:VE:318:MET:HA	44:VE:318:MET:HE3	1.95	0.49
45:VF:36:TYR:CZ	45:VF:44:LEU:HG	2.48	0.49
44:VG:4:VAL:HG12	44:VG:51:THR:O	2.12	0.49
44:VG:102:ASN:HB3	44:VG:105:ARG:HB2	1.95	0.49
44:VG:231:ILE:HD11	44:VG:302:MET:CE	2.43	0.49
45:VH:325:GLU:HA	45:VH:328:GLU:HG2	1.94	0.49
44:VI:4:VAL:HG11	44:VI:52:PHE:HE1	1.77	0.49
44:VI:135:PHE:H	44:VI:166:LYS:NZ	2.10	0.49
44:VI:267:PHE:CD2	44:VI:388:PHE:HE2	2.30	0.49
45:VJ:134:GLN:O	45:VJ:134:GLN:HG3	2.13	0.49
45:VJ:223:GLY:HA2	45:VJ:226:ASN:HB2	1.95	0.49
44:VK:224:TYR:CE2	45:VL:323:THR:HG21	2.48	0.49
45:VL:7:ILE:HD11	45:VL:120:VAL:CG1	2.43	0.49
45:VL:97:ALA:HB3	45:VL:143:THR:CB	2.43	0.49
45:VL:105:HIS:CE1	45:VL:150:LEU:HD12	2.47	0.49
44:VM:88:HIS:CG	44:VM:89:PRO:HD2	2.48	0.49
44:VM:237:SER:HA	44:VM:240:ALA:HB2	1.95	0.49
45:VN:227:HIS:ND1	45:VN:228:LEU:HD23	2.28	0.49
44:WA:265:ILE:HG22	44:WA:380:ASN:HD21	1.78	0.49
45:WB:170:VAL:HG22	45:WB:201:VAL:HG21	1.95	0.49
45:WB:321:MET:HA	45:WB:321:MET:CE	2.43	0.49
44:WC:10:GLY:O	44:WC:13:GLY:N	2.45	0.49
45:WD:113:ILE:HA	45:WD:116:VAL:HG12	1.94	0.49
44:WE:137:VAL:CG1	44:WE:168:GLY:HA2	2.43	0.49
45:WF:105:HIS:O	45:WF:106:TYR:HD1	1.96	0.49
45:WF:391:ARG:O	45:WF:392:LYS:HG2	2.13	0.49
44:WG:229:ARG:HH11	44:WG:229:ARG:HG2	1.78	0.49
44:WG:274:PRO:HG3	44:WG:291:ILE:HD11	1.95	0.49
44:WG:424:ASP:O	44:WG:427:ALA:HB3	2.13	0.49
45:WH:252:LYS:HG2	45:WH:350:LYS:NZ	2.28	0.49
44:WI:166:LYS:N	44:WI:199:ASP:OD2	2.37	0.49
45:WJ:133:PHE:O	45:WJ:165:GLU:N	2.41	0.49
44:WK:105:ARG:NH2	44:WK:110:ILE:HD11	2.27	0.49
45:WL:113:ILE:HA	45:WL:116:VAL:CG1	2.37	0.49
45:WL:158:GLU:C	45:WL:159:TYR:HD1	2.16	0.49
45:WL:345:ILE:O	45:WL:345:ILE:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:209:ILE:HB	44:WM:227:LEU:HD22	1.95	0.49
45:WN:173:PRO:CG	45:WN:380:ARG:HD3	2.42	0.49
45:WN:292:GLN:O	45:WN:295:ASP:N	2.36	0.49
2:0A:39:TYR:CE2	44:MA:78:VAL:HA	2.48	0.48
3:0B:292:LEU:CD1	45:KL:273:LEU:HD21	2.32	0.48
3:0B:304:ARG:HH12	44:KI:357:TYR:HD2	1.61	0.48
8:0G:102:GLY:O	45:JN:355:ASP:HB3	2.12	0.48
9:0H:415:PRO:CB	44:GK:58:ALA:HB1	2.41	0.48
16:0X:29:GLY:O	45:MD:217:LEU:HD21	2.11	0.48
2:1A:71:TYR:OH	44:AE:225:THR:OG1	2.00	0.48
19:1I:28:GLU:OE1	45:JD:216:LYS:HB3	2.13	0.48
20:1J:201:LYS:HB3	44:IG:285:GLN:HB2	1.94	0.48
20:1J:302:PHE:HA	44:IK:280:LYS:CE	2.39	0.48
16:1X:7:SER:HA	44:ME:357:TYR:OH	2.13	0.48
21:2K:295:MET:HG3	45:GL:280:GLN:CD	2.32	0.48
26:3R:252:LEU:CD2	44:CK:370:LYS:HE3	2.31	0.48
26:3R:394:TYR:CE1	45:EL:216:LYS:HD3	2.48	0.48
16:3X:49:ILE:HD11	44:MM:282:TYR:CE2	2.44	0.48
16:3X:78:ASN:HB3	45:MN:280:GLN:NE2	2.08	0.48
37:5D:83:THR:HG23	44:NM:225:THR:CG2	2.33	0.48
38:5G:22:LYS:HG3	38:5G:23:ASP:N	2.27	0.48
38:5G:44:ARG:HG2	44:NG:57:GLY:CA	2.43	0.48
38:5H:9:TYR:N	38:5H:10:PRO:CD	2.76	0.48
38:5H:76:ALA:HA	45:KN:425:TYR:OH	2.12	0.48
35:5R:308:LYS:O	35:5R:310:PRO:HD3	2.12	0.48
41:6G:167:ILE:HG12	45:VH:175:VAL:CG1	2.43	0.48
41:6G:305:THR:OG1	41:6G:306:GLU:N	2.45	0.48
35:6R:389:ASN:N	45:EN:276:ARG:NH2	2.49	0.48
35:6R:472:GLU:OE2	45:EN:80:PRO:HD3	2.13	0.48
35:7R:189:GLU:CA	35:7R:192:VAL:HG22	2.41	0.48
35:7R:453:ILE:CD1	35:7R:475:ASN:HA	2.41	0.48
35:7R:492:ILE:HB	35:7R:583:GLN:HE22	1.78	0.48
42:8N:315:UNK:O	42:8N:318:UNK:N	2.46	0.48
44:AA:268:MET:HG3	44:AA:378:ILE:HG22	1.94	0.48
44:AC:202:VAL:HG12	44:AC:203:MET:N	2.28	0.48
44:AC:318:MET:O	44:AC:375:VAL:HG13	2.13	0.48
44:AC:323:VAL:HG13	44:AC:373:ARG:HG2	1.95	0.48
44:AE:11:GLN:HE21	44:AE:74:VAL:HG11	1.76	0.48
44:AE:35:GLN:CD	44:AE:60:LYS:HB3	2.33	0.48
44:AE:172:TYR:HD2	44:AE:203:MET:SD	2.36	0.48
44:AE:428:LEU:HD21	44:AE:432:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:251:ASP:CB	44:AG:254:GLU:HG2	2.31	0.48
45:AH:66:MET:HE2	45:AH:147:MET:HG2	1.94	0.48
45:AH:146:GLY:O	45:AH:149:THR:HG22	2.13	0.48
44:AK:4:VAL:HG23	44:AK:134:GLY:O	2.12	0.48
44:AK:71:GLU:OE1	44:AK:73:THR:HB	2.13	0.48
44:AM:21:TRP:CH2	44:AM:63:PRO:HB3	2.48	0.48
44:AM:31:GLN:HB2	44:AM:35:GLN:O	2.13	0.48
44:AM:296:PHE:CE2	44:AM:335:ILE:HG21	2.48	0.48
44:BA:88:HIS:ND1	44:BA:90:GLU:HG2	2.27	0.48
44:BA:326:LYS:HE3	45:BD:219:THR:CB	2.43	0.48
44:BC:5:ILE:HG22	44:BC:7:ILE:HD11	1.93	0.48
44:BC:13:GLY:O	44:BC:17:GLY:N	2.33	0.48
44:BC:31:GLN:HB3	44:BC:32:PRO:HD2	1.95	0.48
45:BD:80:PRO:O	45:BD:81:PHE:HB2	2.12	0.48
45:BD:113:ILE:O	45:BD:116:VAL:HG12	2.13	0.48
45:BD:138:SER:OG	45:BD:141:GLY:HA3	2.13	0.48
45:BD:345:ILE:O	45:BD:345:ILE:CG2	2.60	0.48
44:BE:324:VAL:CG1	44:BE:325:PRO:HD2	2.24	0.48
44:BE:383:ALA:O	44:BE:386:GLU:HG2	2.13	0.48
45:BH:267:MET:HE2	45:BH:301:CYS:HB2	1.95	0.48
45:BH:316:LEU:HD13	45:BH:352:SER:CB	2.43	0.48
44:BI:145:THR:HG22	46:BI:501:GTP:O3B	2.13	0.48
45:BJ:77:ARG:HH12	45:BJ:83:GLN:CG	2.25	0.48
44:BK:231:ILE:O	44:BK:235:ILE:HG12	2.13	0.48
45:BN:68:LEU:HD23	45:BN:97:ALA:N	2.28	0.48
45:BN:274:THR:OG1	45:BN:279:GLN:HA	2.13	0.48
44:CA:170:THR:O	44:CA:204:LEU:HD12	2.13	0.48
44:CC:84:ARG:HH11	44:CC:85:GLN:NE2	2.10	0.48
44:CC:207:GLU:HA	44:CC:210:TYR:HD2	1.75	0.48
44:CC:229:ARG:HH11	44:CC:363:VAL:HG11	1.76	0.48
45:CD:1:MET:CE	44:CE:72:PRO:HG2	2.43	0.48
44:CE:2:ARG:O	44:CE:3:GLU:HG3	2.13	0.48
44:CE:115:VAL:HG22	44:CE:119:LEU:CD2	2.43	0.48
45:CF:49:VAL:HG12	45:CF:50:TYR:CD1	2.47	0.48
45:CF:248:SER:OG	45:CF:252:LYS:HD2	2.13	0.48
44:CG:89:PRO:HG3	44:DG:280:LYS:CG	2.42	0.48
44:CG:311:LYS:HD2	44:CG:342:GLN:HG3	1.94	0.48
45:CH:20:PHE:CG	45:CH:233:MET:HE3	2.48	0.48
45:CH:230:SER:HA	45:CH:233:MET:CG	2.43	0.48
44:CI:217:LEU:CD2	44:CI:277:SER:HB3	2.43	0.48
44:CK:88:HIS:HB3	44:CK:91:GLN:CD	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:245:GLN:C	45:CL:246:LEU:HD12	2.33	0.48
45:CN:174:LYS:HD2	45:CN:175:VAL:HG13	1.94	0.48
44:DA:259:LEU:HD21	44:DA:316:SER:CB	2.42	0.48
45:DB:173:PRO:HG2	45:DB:380:ARG:HD3	1.93	0.48
46:DB:502:GTP:C1'	44:DC:140:SER:HB2	2.43	0.48
44:DC:101:ASN:HA	44:DC:144:GLY:N	2.26	0.48
44:DC:226:ASN:O	44:DC:230:LEU:HD23	2.12	0.48
44:DE:249:ASN:HB2	45:DF:11:GLN:NE2	2.22	0.48
45:DF:3:GLU:OE2	45:DF:128:ASP:N	2.44	0.48
45:DF:35:THR:HB	45:DF:37:HIS:HE1	1.78	0.48
45:DF:246:LEU:CD2	46:DG:501:GTP:H5''	2.43	0.48
45:DH:222:TYR:O	45:DH:226:ASN:ND2	2.45	0.48
45:DH:271:ALA:CB	45:DH:365:VAL:HG22	2.43	0.48
45:DJ:233:MET:O	45:DJ:236:VAL:HG12	2.13	0.48
44:DK:71:GLU:OE2	44:DK:73:THR:OG1	2.22	0.48
45:DL:314:SER:HA	45:DL:350:LYS:O	2.13	0.48
44:DM:132:LEU:HD22	44:DM:164:LYS:CD	2.30	0.48
45:EB:64:ILE:HG13	45:EB:89:ASN:CG	2.34	0.48
45:EB:310:TYR:O	45:EB:342:VAL:HG12	2.13	0.48
45:EB:322:SER:HB3	44:EC:221:ARG:NE	2.27	0.48
45:EB:377:MET:HA	45:EB:380:ARG:CG	2.43	0.48
44:EC:346:TRP:HZ3	45:ED:394:PHE:HE1	1.60	0.48
45:ED:142:GLY:N	48:ED:501:GDP:O2B	2.46	0.48
44:EE:167:LEU:HG	44:EE:200:VAL:HB	1.95	0.48
44:EE:311:LYS:HD2	44:EE:342:GLN:HG3	1.95	0.48
45:EF:170:VAL:HG23	45:EF:171:PRO:HD2	1.94	0.48
44:EG:348:PRO:HB2	45:EH:384:GLN:OE1	2.12	0.48
45:EH:149:THR:O	45:EH:152:ILE:HB	2.13	0.48
45:EJ:156:ARG:HG2	45:EJ:195:ASN:OD1	2.12	0.48
45:EL:372:THR:HA	45:EL:422:TYR:HE2	1.78	0.48
44:EM:259:LEU:HD23	44:EM:314:ALA:HB1	1.95	0.48
44:FA:261:PRO:HA	45:FD:394:PHE:CE2	2.48	0.48
44:FA:431:ASP:O	44:FA:435:VAL:N	2.39	0.48
45:FB:97:ALA:HB2	45:FB:143:THR:HB	1.94	0.48
45:FB:150:LEU:HD23	45:FB:150:LEU:C	2.34	0.48
45:FB:190:HIS:O	45:FB:193:VAL:HG12	2.13	0.48
45:FD:87:PRO:HG3	45:GD:278:SER:HB2	1.94	0.48
44:FE:298:PRO:HG3	44:FE:308:ARG:NH1	2.28	0.48
45:FF:318:ARG:CZ	45:FF:358:PRO:HG3	2.43	0.48
45:FF:334:GLN:NE2	45:FF:348:ASN:H	2.07	0.48
44:FG:326:LYS:O	44:FG:329:ASN:OD1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:293:MET:SD	45:FH:367:PHE:HD1	2.35	0.48
44:FI:141:VAL:HG13	44:FI:142:GLY:N	2.28	0.48
44:FI:258:ASN:O	44:FI:259:LEU:HD22	2.13	0.48
45:FL:4:ILE:CG1	45:FL:131:GLN:HB3	2.34	0.48
45:FL:145:SER:O	45:FL:149:THR:HG23	2.13	0.48
44:FM:68:LEU:CD2	44:FM:118:CYS:HB2	2.42	0.48
44:FM:91:GLN:CB	44:FM:121:ARG:HH21	2.25	0.48
44:FM:182:VAL:C	44:FM:184:PRO:HD2	2.34	0.48
45:FN:104:GLY:HA2	45:FN:108:GLU:CB	2.43	0.48
44:GA:288:VAL:HG21	44:GA:323:VAL:HG23	1.95	0.48
44:GA:329:ASN:HB3	45:GD:175:VAL:HG11	1.95	0.48
45:GB:103:LYS:HB2	45:GB:401:GLU:OE1	2.13	0.48
45:GB:225:LEU:HA	45:GB:228:LEU:HD12	1.94	0.48
45:GB:318:ARG:NE	45:GB:357:PRO:HA	2.28	0.48
45:GB:398:TYR:C	45:GB:403:MET:HE3	2.33	0.48
44:GC:224:TYR:CE2	45:GD:246:LEU:HD11	2.47	0.48
45:GF:180:VAL:O	45:GF:180:VAL:HG22	2.12	0.48
44:GG:285:GLN:HG3	44:GG:287:SER:H	1.78	0.48
44:GG:313:MET:HG2	44:GG:380:ASN:O	2.13	0.48
45:GH:321:MET:CE	45:GH:321:MET:HA	2.43	0.48
44:GI:104:ALA:HB2	44:GI:413:MET:HE2	1.94	0.48
44:GI:330:ALA:O	44:GI:333:ALA:HB3	2.13	0.48
45:GJ:204:ASN:ND2	48:GJ:502:GDP:HN22	2.11	0.48
45:GJ:377:MET:O	45:GJ:381:VAL:HG23	2.12	0.48
44:GK:68:LEU:CD1	44:GK:93:ILE:HB	2.40	0.48
45:GL:163:ILE:HA	45:GL:197:ASP:OD2	2.13	0.48
45:GN:6:HIS:CD2	45:GN:8:GLN:HE22	2.31	0.48
45:GN:296:ALA:HB1	45:GN:305:PRO:HG2	1.95	0.48
45:GN:317:PHE:HB2	45:GN:352:SER:O	2.13	0.48
44:HA:407:TRP:HH2	45:HB:258:ILE:HD13	1.77	0.48
45:HB:54:ALA:CA	45:IB:283:ALA:HB2	2.43	0.48
45:HB:112:LEU:O	45:HB:112:LEU:HD23	2.13	0.48
44:HE:258:ASN:CA	45:HH:179:VAL:HG21	2.41	0.48
44:HE:434:GLU:O	44:HE:437:ILE:HG12	2.13	0.48
44:HE:439:THR:HG21	45:HH:390:ARG:HD2	1.95	0.48
45:HF:329:GLN:O	45:HF:333:VAL:HG23	2.13	0.48
44:HG:269:LEU:HD21	44:HG:381:SER:HB3	1.95	0.48
45:HH:395:LEU:HG	45:HH:399:THR:CG2	2.42	0.48
44:HI:226:ASN:ND2	44:HI:229:ARG:HH12	2.08	0.48
45:HJ:409:THR:O	45:HJ:412:GLU:HB3	2.13	0.48
44:HK:318:MET:HB3	44:HK:376:CYS:HG	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:180:ALA:HB3	44:HM:183:GLU:HB2	1.94	0.48
44:HM:241:SER:CB	44:HM:242:LEU:CB	2.86	0.48
44:HM:242:LEU:CD1	44:HM:251:ASP:HA	2.43	0.48
44:HM:387:VAL:O	44:HM:391:LEU:HD13	2.13	0.48
45:HN:293:MET:HG3	45:HN:367:PHE:HB2	1.95	0.48
44:IE:79:ARG:CG	44:IE:92:LEU:HD22	2.38	0.48
45:IF:58:ARG:HD3	44:JC:283:HIS:CD2	2.47	0.48
45:IF:187:LEU:HD21	45:IF:408:PHE:CD1	2.48	0.48
44:IG:261:PRO:HB2	44:IG:262:TYR:CD2	2.48	0.48
45:IH:247:ASN:O	45:IH:252:LYS:NZ	2.34	0.48
44:IK:88:HIS:HA	45:JL:281:TYR:CD2	2.48	0.48
44:IK:120:ASP:C	44:IK:124:LYS:HZ3	2.16	0.48
45:IL:105:HIS:CG	45:IL:150:LEU:HD12	2.47	0.48
45:IL:290:THR:HA	45:IL:293:MET:HE3	1.95	0.48
45:IL:341:PHE:HD2	45:IL:348:ASN:HD21	1.59	0.48
44:JA:170:THR:O	44:JA:204:LEU:HB2	2.13	0.48
44:JA:185:TYR:OH	44:JA:403:ALA:O	2.25	0.48
45:JB:66:MET:CE	45:JB:116:VAL:HG21	2.42	0.48
45:JB:86:ARG:HH21	45:JB:89:ASN:HD21	1.60	0.48
44:JC:274:PRO:HD2	44:JC:374:ALA:HB2	1.95	0.48
45:JD:30:ILE:HD12	45:JD:51:TYR:CZ	2.48	0.48
45:JD:332:ASN:O	45:JD:336:LYS:HG2	2.13	0.48
45:JF:43:GLN:C	45:JF:44:LEU:HD22	2.33	0.48
45:JF:100:ASN:HB3	45:JF:103:LYS:HB2	1.94	0.48
44:JG:265:ILE:HG23	44:JG:432:TYR:OH	2.12	0.48
45:JH:285:THR:CB	45:JH:287:PRO:HD2	2.40	0.48
44:JI:88:HIS:NE2	44:KI:284:GLU:OE2	2.40	0.48
45:JJ:73:MET:O	45:JJ:76:VAL:HG12	2.13	0.48
45:JJ:207:LEU:HB3	45:JJ:225:LEU:CD2	2.24	0.48
45:JJ:341:PHE:CE2	45:JJ:349:ILE:HD11	2.48	0.48
44:JK:62:VAL:HG13	44:JK:62:VAL:O	2.13	0.48
45:JN:50:TYR:HE2	45:JN:237:THR:HG21	1.78	0.48
44:KA:307:PRO:HA	44:KA:383:ALA:CB	2.43	0.48
45:KB:61:PRO:CG	45:KB:85:PHE:HA	2.43	0.48
45:KB:410:GLU:O	45:KB:413:SER:HB3	2.12	0.48
44:KC:363:VAL:HG23	44:KC:364:PRO:HD2	1.93	0.48
44:KC:387:VAL:HA	44:KC:390:ARG:NH2	2.28	0.48
45:KD:268:ILE:O	45:KD:300:MET:HG2	2.13	0.48
44:KE:8:HIS:HD1	44:KE:67:PHE:HE1	1.60	0.48
44:KE:156:ARG:HH11	44:KE:156:ARG:HG3	1.78	0.48
45:KF:286:VAL:HG11	45:KF:325:GLU:HG3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:404:PHE:HD1	45:KH:259:PRO:HA	1.78	0.48
44:KI:31:GLN:CG	44:KI:37:PRO:HB3	2.43	0.48
44:KI:209:ILE:CA	44:KI:212:ILE:HG22	2.38	0.48
44:KI:258:ASN:ND2	45:KL:179:VAL:HG12	2.29	0.48
44:KI:320:ARG:HD3	44:KI:360:PRO:CD	2.31	0.48
44:KI:389:SER:O	44:KI:392:ASP:HB3	2.13	0.48
45:KJ:105:HIS:CD2	45:KJ:150:LEU:HD12	2.48	0.48
45:KJ:345:ILE:HG23	45:KJ:345:ILE:O	2.13	0.48
45:KL:2:ARG:HB2	45:KL:131:GLN:CB	2.42	0.48
45:KL:285:THR:HB	45:KL:287:PRO:HD2	1.93	0.48
44:KM:91:GLN:HG3	44:KM:121:ARG:CD	2.32	0.48
44:KM:104:ALA:HB2	44:KM:413:MET:HE3	1.95	0.48
45:KN:381:VAL:O	45:KN:382:ALA:HB3	2.13	0.48
44:LA:240:ALA:O	44:LA:356:ASN:ND2	2.46	0.48
44:LC:67:PHE:C	44:LC:68:LEU:HD22	2.32	0.48
45:LD:241:ARG:C	45:LD:242:PHE:HD1	2.17	0.48
44:LE:30:ILE:HD12	44:LE:30:ILE:H	1.77	0.48
44:LE:141:VAL:CG1	44:LE:172:TYR:HA	2.42	0.48
44:LE:196:GLU:HG3	44:LE:196:GLU:O	2.11	0.48
45:LF:60:VAL:HG13	45:LF:60:VAL:O	2.13	0.48
45:LF:173:PRO:HD2	45:LF:174:LYS:HZ1	1.75	0.48
44:LG:56:THR:HG21	44:LG:60:LYS:HG2	1.94	0.48
44:LG:221:ARG:HH12	45:LH:325:GLU:CG	2.26	0.48
44:LG:229:ARG:O	44:LG:232:ALA:HB3	2.13	0.48
45:LH:372:THR:O	45:LH:372:THR:HG22	2.13	0.48
44:LI:311:LYS:HB2	44:LI:344:VAL:HG22	1.95	0.48
44:LI:339:ARG:HG3	44:LI:339:ARG:O	2.13	0.48
44:LI:398:MET:HE2	45:LJ:346:PRO:HD2	1.94	0.48
45:LJ:268:ILE:HG13	45:LJ:300:MET:HE1	1.94	0.48
45:LL:175:VAL:HG23	45:LL:175:VAL:O	2.13	0.48
44:LM:118:CYS:O	44:LM:122:ILE:HG23	2.13	0.48
44:LM:256:GLN:NE2	44:LM:257:THR:HG23	2.28	0.48
45:LN:46:ARG:O	45:LN:49:VAL:HG12	2.13	0.48
45:LN:257:LEU:O	45:LN:312:THR:OG1	2.28	0.48
45:MB:36:TYR:OH	45:MB:44:LEU:HG	2.13	0.48
46:MC:501:GTP:H8	45:MD:246:LEU:HD21	1.78	0.48
45:MD:313:ALA:HB1	45:MD:367:PHE:HE1	1.78	0.48
44:ME:36:MET:O	44:ME:37:PRO:O	2.30	0.48
44:ME:261:PRO:HA	45:MH:394:PHE:CD1	2.48	0.48
44:ME:292:THR:O	44:ME:295:ALA:HB3	2.13	0.48
45:MF:24:ILE:HD11	45:MF:241:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:113:ILE:HD13	45:MF:150:LEU:CD2	2.43	0.48
44:MG:273:ALA:HB1	44:MG:274:PRO:HA	1.94	0.48
45:MH:333:VAL:O	45:MH:333:VAL:HG22	2.13	0.48
44:MI:201:ALA:HB3	44:MI:267:PHE:CD1	2.48	0.48
44:MI:259:LEU:HD21	44:MI:316:SER:HB3	1.95	0.48
44:MK:132:LEU:HG	44:MK:132:LEU:O	2.12	0.48
44:MK:137:VAL:O	44:MK:168:GLY:HA2	2.13	0.48
44:MK:340:THR:HG23	44:MK:341:ILE:HG12	1.94	0.48
44:MM:119:LEU:HD11	44:MM:156:ARG:HG2	1.94	0.48
45:MN:204:ASN:ND2	48:MN:502:GDP:O2'	2.46	0.48
45:MN:326:VAL:O	45:MN:330:MET:HG2	2.13	0.48
44:NA:256:GLN:HB3	45:ND:397:TRP:CH2	2.48	0.48
44:NA:316:SER:O	44:NA:377:MET:HE1	2.13	0.48
44:NA:319:TYR:CE1	44:NA:375:VAL:HG21	2.47	0.48
45:NB:11:GLN:HB3	48:NB:501:GDP:PA	2.53	0.48
45:NB:60:VAL:HG21	45:NB:86:ARG:CD	2.43	0.48
45:NB:240:LEU:HD22	45:NB:250:LEU:HD11	1.94	0.48
45:NB:323:THR:O	45:NB:326:VAL:N	2.46	0.48
44:NE:73:THR:HA	45:NF:46:ARG:HH21	1.78	0.48
44:NE:363:VAL:HG23	44:NE:364:PRO:HD2	1.94	0.48
45:NF:267:MET:HG2	45:NF:301:CYS:SG	2.53	0.48
44:NG:313:MET:HE2	44:NG:346:TRP:CZ3	2.47	0.48
45:NH:19:LYS:HB3	45:NH:19:LYS:HZ3	1.78	0.48
45:NH:251:ARG:CZ	45:NH:251:ARG:HB3	2.43	0.48
45:NH:272:PRO:HG3	45:NH:289:LEU:HD21	1.95	0.48
45:NH:284:LEU:HB3	45:NH:289:LEU:CD2	2.36	0.48
44:NI:257:THR:HA	45:NL:397:TRP:CZ3	2.48	0.48
45:NJ:286:VAL:O	45:NJ:289:LEU:HB2	2.13	0.48
44:NK:70:LEU:HD13	44:NK:110:ILE:HD11	1.94	0.48
44:NK:188:ILE:HG21	44:NK:395:PHE:CD2	2.48	0.48
44:NK:273:ALA:HB1	44:NK:274:PRO:HA	1.94	0.48
45:NL:211:CYS:CA	45:NL:215:LEU:HB2	2.38	0.48
44:NM:295:ALA:HB1	44:NM:377:MET:HE2	1.95	0.48
44:NM:362:VAL:HG22	44:NM:363:VAL:O	2.13	0.48
45:NN:136:THR:HG22	45:NN:167:PHE:CD2	2.43	0.48
44:OA:169:PHE:CD1	44:OA:202:VAL:HG21	2.48	0.48
44:OA:188:ILE:HG13	44:OA:395:PHE:HB2	1.94	0.48
44:OA:292:THR:O	44:OA:295:ALA:HB3	2.12	0.48
45:OB:257:LEU:HB3	45:OB:266:PHE:CZ	2.48	0.48
45:OB:382:ALA:O	45:OB:385:PHE:HB3	2.13	0.48
44:OC:326:LYS:O	44:OC:329:ASN:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:130:LEU:HD22	45:OD:162:ARG:HG3	1.95	0.48
45:OD:167:PHE:HD2	45:OD:233:MET:HE3	1.77	0.48
45:OD:200:MET:HG3	45:OD:200:MET:O	2.13	0.48
45:OF:332:ASN:O	45:OF:336:LYS:HG3	2.13	0.48
44:OG:270:SER:HB2	44:OG:378:ILE:HG12	1.95	0.48
44:OG:398:MET:HE2	45:OH:345:ILE:HA	1.95	0.48
45:OH:67:ASP:CG	45:OH:68:LEU:H	2.16	0.48
44:OI:317:MET:HE2	44:OI:319:TYR:CE1	2.47	0.48
45:OJ:14:ASN:OD1	45:OJ:72:THR:HG21	2.13	0.48
45:OJ:60:VAL:HG23	45:OJ:84:LEU:O	2.13	0.48
45:OL:101:TRP:CD1	45:OL:105:HIS:HB2	2.47	0.48
45:OL:187:LEU:HD21	45:OL:408:PHE:CE1	2.47	0.48
44:OM:9:VAL:HG12	44:OM:139:ASN:HB3	1.95	0.48
45:ON:392:LYS:O	45:ON:395:LEU:HB2	2.13	0.48
45:PB:52:ASN:CG	45:PB:62:ARG:HD2	2.34	0.48
44:PC:34:GLY:O	44:PC:60:LYS:HA	2.13	0.48
44:PC:101:ASN:HA	44:PC:144:GLY:N	2.28	0.48
44:PC:259:LEU:HD11	44:PC:316:SER:HB3	1.95	0.48
44:PE:48:ALA:O	44:PE:51:THR:HB	2.12	0.48
44:PE:241:SER:HB2	44:PE:250:VAL:H	1.78	0.48
44:PE:352:LYS:HD2	45:PH:177:ASP:O	2.13	0.48
44:PG:71:GLU:OE1	44:PG:73:THR:HB	2.13	0.48
44:PG:315:CYS:SG	44:PG:379:SER:OG	2.48	0.48
45:PH:100:ASN:ND2	45:PH:401:GLU:OE1	2.46	0.48
45:PH:323:THR:O	45:PH:326:VAL:HB	2.13	0.48
44:PI:18:ASN:O	44:PI:22:GLU:N	2.46	0.48
44:PI:107:HIS:CE1	44:PI:152:LEU:HD13	2.47	0.48
44:PI:229:ARG:O	44:PI:233:GLN:N	2.43	0.48
44:PI:236:SER:HA	44:PI:243:ARG:NH2	2.27	0.48
44:PI:317:MET:CE	44:PI:375:VAL:HG21	2.40	0.48
45:PL:208:TYR:CE2	45:PL:225:LEU:HD11	2.47	0.48
45:PL:313:ALA:HB3	45:PL:349:ILE:HA	1.95	0.48
45:PN:50:TYR:HE2	45:PN:237:THR:HG1	1.59	0.48
45:PN:190:HIS:O	45:PN:193:VAL:HG12	2.13	0.48
44:QA:258:ASN:HB3	45:QB:179:VAL:CG2	2.43	0.48
45:QB:285:THR:O	45:QB:288:GLU:HB2	2.13	0.48
44:QC:67:PHE:C	44:QC:68:LEU:HD12	2.34	0.48
45:QD:28:HIS:CD2	45:QD:241:ARG:HH21	2.31	0.48
45:QD:166:THR:OG1	45:QD:199:CYS:HA	2.13	0.48
45:QD:183:TYR:CD2	45:QD:388:MET:HE3	2.47	0.48
45:QF:11:GLN:HG3	45:QF:72:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:67:ASP:HB2	45:QH:73:MET:HE3	1.95	0.48
45:QH:212:PHE:CZ	45:QH:220:PRO:HG3	2.48	0.48
45:QH:404:ASP:OD1	45:QH:407:GLU:HG3	2.13	0.48
44:QI:144:GLY:H	46:QI:501:GTP:PG	2.33	0.48
45:QL:101:TRP:CZ2	45:QL:149:THR:HG21	2.48	0.48
45:QL:326:VAL:HA	45:QL:329:GLN:HB2	1.95	0.48
44:QM:67:PHE:HB3	44:QM:75:ILE:CD1	2.43	0.48
44:QM:154:LEU:O	44:QM:158:SER:N	2.45	0.48
44:QM:184:PRO:O	44:QM:187:SER:HB2	2.13	0.48
44:QM:298:PRO:HG3	44:QM:308:ARG:CZ	2.43	0.48
44:RA:176:GLN:HG2	44:RA:177:VAL:N	2.28	0.48
44:RA:326:LYS:HD3	45:RB:212:PHE:HZ	1.78	0.48
45:RB:64:ILE:HG12	45:RB:89:ASN:ND2	2.28	0.48
44:RC:67:PHE:C	44:RC:68:LEU:HD12	2.33	0.48
45:RD:372:THR:HG21	45:RD:426:GLN:NE2	2.27	0.48
44:RE:72:PRO:HA	44:RE:94:SER:OG	2.13	0.48
44:RE:147:SER:O	44:RE:151:SER:HB3	2.12	0.48
45:RF:161:ASP:OD1	45:RF:162:ARG:HG2	2.13	0.48
45:RH:377:MET:HE1	45:RH:378:PHE:CZ	2.48	0.48
45:RJ:4:ILE:CG1	45:RJ:50:TYR:HE1	2.25	0.48
45:RJ:175:VAL:O	45:RJ:175:VAL:HG23	2.13	0.48
45:RJ:326:VAL:O	45:RJ:330:MET:HE2	2.12	0.48
44:RM:9:VAL:HG11	44:RM:153:LEU:HD12	1.95	0.48
44:RM:262:TYR:OH	45:RN:391:ARG:O	2.31	0.48
45:RN:317:PHE:CD2	45:RN:365:VAL:HG22	2.48	0.48
44:SA:158:SER:O	44:SA:162:GLY:HA2	2.13	0.48
45:SB:21:TRP:HA	45:SB:24:ILE:HB	1.94	0.48
45:SB:178:THR:HG22	45:SB:180:VAL:HG12	1.95	0.48
45:SB:207:LEU:HD21	45:SB:300:MET:CE	2.43	0.48
44:SC:200:VAL:HG13	44:SC:268:MET:HE1	1.93	0.48
44:SC:273:ALA:HB3	44:SC:375:VAL:CG1	2.42	0.48
45:SD:62:ARG:HH12	45:SD:127:CYS:CB	2.25	0.48
45:SD:374:ILE:HA	45:SD:377:MET:HE2	1.95	0.48
44:SE:405:VAL:HG13	44:SE:418:PHE:HE1	1.76	0.48
45:SF:114:ASP:OD1	45:SF:115:SER:N	2.44	0.48
45:SF:316:LEU:O	45:SF:365:VAL:HG13	2.13	0.48
45:SH:257:LEU:HB3	45:SH:266:PHE:CZ	2.48	0.48
45:SH:289:LEU:HD11	45:SH:363:MET:HG2	1.94	0.48
45:SH:304:ASP:HB3	45:SH:307:HIS:CG	2.48	0.48
44:SI:143:GLY:CA	46:SI:501:GTP:H5'	2.42	0.48
45:SJ:2:ARG:NH2	45:SJ:240:LEU:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:16:ILE:HD12	45:SJ:16:ILE:H	1.78	0.48
45:SJ:101:TRP:HE1	45:SJ:146:GLY:HA2	1.78	0.48
44:SK:259:LEU:HD11	44:SK:316:SER:HB3	1.93	0.48
44:SM:241:SER:CB	44:SM:249:ASN:HD22	2.26	0.48
44:SM:317:MET:HG3	44:SM:353:VAL:HG23	1.95	0.48
45:SN:60:VAL:HG21	45:SN:86:ARG:NH1	2.28	0.48
45:SN:163:ILE:HG22	45:SN:164:MET:N	2.28	0.48
45:SN:257:LEU:HB3	45:SN:266:PHE:CE2	2.48	0.48
45:SN:375:GLN:O	45:SN:379:LYS:HG3	2.13	0.48
44:TC:169:PHE:O	44:TC:204:LEU:HD12	2.13	0.48
44:TC:180:ALA:HB3	44:TC:183:GLU:CG	2.43	0.48
44:TC:377:MET:O	44:TC:378:ILE:HD13	2.12	0.48
45:TD:113:ILE:HD12	45:TD:150:LEU:HD22	1.95	0.48
45:TD:253:LEU:O	45:TD:257:LEU:HD13	2.13	0.48
44:TE:295:ALA:HA	44:TE:377:MET:HE2	1.95	0.48
44:TE:349:THR:HG23	44:TE:349:THR:O	2.13	0.48
45:TF:398:TYR:HA	45:TF:403:MET:CE	2.42	0.48
44:TG:88:HIS:HB3	44:TG:91:GLN:CG	2.42	0.48
44:TG:103:PHE:H	44:TG:408:TYR:HE2	1.60	0.48
44:TG:338:LYS:CD	44:TG:341:ILE:HG22	2.43	0.48
45:TH:207:LEU:HD22	45:TH:228:LEU:HD23	1.95	0.48
45:TJ:255:VAL:HG11	44:TK:101:ASN:HB2	1.95	0.48
44:TK:132:LEU:HD22	44:TK:164:LYS:HD2	1.95	0.48
45:TL:135:ILE:N	45:TL:165:GLU:O	2.46	0.48
45:TL:378:PHE:HA	45:TL:381:VAL:HB	1.93	0.48
44:TM:12:GLY:HA2	44:TM:15:GLN:HB2	1.95	0.48
44:TM:13:GLY:HA2	44:TM:16:VAL:CG1	2.43	0.48
44:TM:319:TYR:CB	44:TM:355:ILE:HG12	2.43	0.48
45:TN:138:SER:O	45:TN:139:LEU:HD12	2.13	0.48
45:UB:358:PRO:HD2	45:UB:361:LEU:O	2.12	0.48
44:UC:258:ASN:CG	45:UD:179:VAL:HG22	2.33	0.48
44:UC:279:GLU:O	44:UC:280:LYS:HD2	2.13	0.48
45:UD:260:PHE:HB3	45:UD:261:PRO:HD2	1.94	0.48
45:UD:398:TYR:HB3	45:UD:403:MET:SD	2.52	0.48
44:UE:9:VAL:O	44:UE:13:GLY:HA3	2.13	0.48
44:UE:175:PRO:HB3	44:UE:390:ARG:HH21	1.77	0.48
44:UG:71:GLU:CD	44:UG:73:THR:H	2.16	0.48
44:UG:115:VAL:O	44:UG:119:LEU:HD23	2.13	0.48
44:UG:387:VAL:HA	44:UG:390:ARG:CD	2.43	0.48
45:UH:258:ILE:HG13	45:UH:266:PHE:HZ	1.78	0.48
44:UI:105:ARG:HH21	44:UI:110:ILE:HD13	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:374:ILE:HD11	45:UJ:422:TYR:CE1	2.47	0.48
45:UL:347:ASN:O	44:UM:181:VAL:HG12	2.13	0.48
44:UM:115:VAL:HG22	44:UM:119:LEU:HD23	1.95	0.48
44:UM:122:ILE:HG21	44:UM:157:LEU:HD21	1.95	0.48
45:UN:68:LEU:HG	45:UN:96:GLY:N	2.26	0.48
45:UN:143:THR:HG23	45:UN:144:GLY:N	2.27	0.48
45:UN:262:ARG:NE	45:UN:262:ARG:HA	2.27	0.48
45:UN:289:LEU:CD1	45:UN:363:MET:HB2	2.43	0.48
45:VB:1:MET:CG	45:VB:2:ARG:H	2.25	0.48
44:VC:13:GLY:HA2	44:VC:16:VAL:HG12	1.93	0.48
44:VC:222:PRO:CD	45:VD:324:LYS:HD3	2.43	0.48
45:VD:287:PRO:HA	45:VD:290:THR:CG2	2.39	0.48
44:VE:224:TYR:OH	45:VF:323:THR:HG21	2.11	0.48
44:VE:351:PHE:N	45:VH:179:VAL:HG12	2.27	0.48
44:VG:14:ILE:HD12	44:VG:14:ILE:H	1.78	0.48
44:VG:22:GLU:HG3	44:VG:83:TYR:HE2	1.77	0.48
44:VG:265:ILE:HG12	44:VG:432:TYR:CZ	2.48	0.48
44:VI:166:LYS:O	44:VI:167:LEU:HD12	2.13	0.48
44:VI:222:PRO:CD	45:VJ:324:LYS:HG2	2.41	0.48
45:VJ:193:VAL:HA	45:VJ:264:HIS:CE1	2.48	0.48
45:VJ:238:CYS:HB2	45:VJ:318:ARG:NE	2.28	0.48
44:VK:69:ASP:OD2	44:VK:74:VAL:HG21	2.12	0.48
44:VK:217:LEU:HD21	44:VK:367:ASP:HB3	1.95	0.48
44:VK:344:VAL:HG11	44:VK:346:TRP:NE1	2.28	0.48
45:VL:7:ILE:HD11	45:VL:120:VAL:HG13	1.95	0.48
45:VL:237:THR:CG2	45:VL:241:ARG:HH21	2.24	0.48
44:VM:91:GLN:HG3	44:VM:92:LEU:HD12	1.95	0.48
44:VM:155:GLU:OE2	44:VM:193:SER:OG	2.31	0.48
45:VN:49:VAL:HG12	45:VN:50:TYR:CE1	2.48	0.48
45:VN:132:GLY:HA3	45:VN:163:ILE:O	2.13	0.48
45:VN:316:LEU:O	45:VN:366:THR:N	2.37	0.48
45:VN:342:VAL:HG22	45:VN:343:GLU:N	2.27	0.48
44:WA:70:LEU:HA	44:WA:95:GLY:CA	2.39	0.48
44:WA:188:ILE:HG23	44:WA:425:LEU:HD11	1.94	0.48
44:WA:325:PRO:HG3	44:WA:355:ILE:HD12	1.93	0.48
44:WC:209:ILE:HB	44:WC:227:LEU:HD22	1.95	0.48
44:WC:406:HIS:CG	45:WD:261:PRO:HD3	2.48	0.48
44:WE:115:VAL:HB	44:WE:152:LEU:HD23	1.95	0.48
44:WE:212:ILE:HD13	44:WE:215:ARG:NH2	2.27	0.48
44:WE:275:ILE:HG23	44:WE:368:LEU:HD11	1.94	0.48
44:WG:212:ILE:CD1	44:WG:300:ASN:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:325:PRO:HG3	45:WL:222:TYR:CE2	2.48	0.48
45:WJ:4:ILE:O	45:WJ:62:ARG:NH2	2.45	0.48
45:WJ:274:THR:CG2	45:WJ:279:GLN:HA	2.43	0.48
44:WK:153:LEU:O	44:WK:157:LEU:HG	2.13	0.48
44:WK:237:SER:HA	44:WK:320:ARG:HH11	1.77	0.48
2:0A:53:HIS:HB2	44:MA:84:ARG:CZ	2.43	0.48
3:0B:214:LYS:CB	44:JI:46:ASP:HB2	2.42	0.48
16:0X:3:ARG:HG2	44:MA:247:ALA:HA	1.95	0.48
20:1J:142:VAL:N	44:IE:285:GLN:O	2.45	0.48
20:1J:144:THR:HG22	44:IE:372:MET:CE	2.43	0.48
21:1K:245:TRP:CE2	45:GB:280:GLN:HG2	2.47	0.48
32:2I:129:ILE:HD11	44:FC:113:GLU:OE1	2.12	0.48
21:2K:295:MET:HG3	45:GL:280:GLN:OE1	2.12	0.48
37:5D:42:SER:OG	44:KK:261:PRO:HB2	2.13	0.48
38:5G:165:PRO:O	38:5G:166:ARG:HD2	2.12	0.48
39:5K:35:ILE:HG22	39:5K:39:PHE:CE2	2.48	0.48
36:5S:187:LEU:N	36:5S:188:PRO:CD	2.76	0.48
35:6R:80:ARG:NH2	44:MM:38:SER:HA	2.24	0.48
35:6R:130:ASN:HB2	35:6R:143:VAL:HA	1.95	0.48
35:6R:268:GLU:CB	45:DN:280:GLN:HE21	2.27	0.48
35:7R:429:LYS:H	35:7R:506:LEU:HD23	1.78	0.48
35:7R:463:SER:OG	35:7R:465:ILE:HG12	2.14	0.48
35:7R:491:GLN:HB2	35:7R:494:GLU:CG	2.42	0.48
42:8L:33:UNK:O	42:8L:37:UNK:N	2.46	0.48
44:AA:288:VAL:HA	44:AA:291:ILE:CG1	2.38	0.48
45:AB:114:ASP:OD1	45:AB:115:SER:N	2.45	0.48
45:AB:178:THR:HG22	45:AB:180:VAL:HG12	1.95	0.48
45:AD:36:TYR:CD1	45:AD:44:LEU:HD11	2.48	0.48
45:AD:121:ARG:NH2	45:AD:158:GLU:OE2	2.46	0.48
45:AD:257:LEU:HA	45:AD:312:THR:CG2	2.43	0.48
44:AE:183:GLU:HG2	44:AE:184:PRO:CD	2.42	0.48
44:AE:229:ARG:HB2	44:AE:229:ARG:CZ	2.43	0.48
45:AH:247:ASN:O	45:AH:252:LYS:NZ	2.28	0.48
45:AH:309:ARG:NH2	45:AH:426:GLN:O	2.46	0.48
45:AL:186:THR:O	45:AL:189:VAL:HG12	2.12	0.48
45:AL:318:ARG:HD3	45:AL:357:PRO:HA	1.94	0.48
44:AM:267:PHE:CD2	44:AM:388:PHE:HZ	2.31	0.48
45:AN:4:ILE:HD11	45:AN:50:TYR:CZ	2.48	0.48
45:AN:345:ILE:HG23	45:AN:345:ILE:O	2.13	0.48
44:BA:2:ARG:H	44:BA:2:ARG:HD3	1.78	0.48
44:BA:5:ILE:HD12	44:BA:132:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BC:71:GLU:OE2	45:BD:2:ARG:NH2	2.45	0.48
45:BD:132:GLY:HA3	45:BD:163:ILE:HG13	1.90	0.48
45:BF:203:ASP:O	45:BF:207:LEU:HG	2.13	0.48
45:BH:68:LEU:HG	45:BH:147:MET:CE	2.43	0.48
45:BH:73:MET:HE2	45:BH:92:PHE:HB3	1.95	0.48
44:BI:22:GLU:HG3	44:BI:83:TYR:CE2	2.49	0.48
44:BK:17:GLY:HA2	44:BK:20:CYS:SG	2.53	0.48
44:CA:141:VAL:HG11	44:CA:172:TYR:HD1	1.77	0.48
44:CA:239:THR:CG2	44:CA:242:LEU:HD21	2.42	0.48
45:CB:11:GLN:CD	48:CB:501:GDP:H5'	2.34	0.48
45:CB:130:LEU:HG	45:CB:162:ARG:CD	2.43	0.48
45:CB:178:THR:CG2	45:CB:180:VAL:HG12	2.42	0.48
45:CB:289:LEU:HD11	45:CB:363:MET:CB	2.43	0.48
44:CC:101:ASN:CA	44:CC:144:GLY:H	2.26	0.48
45:CD:105:HIS:O	45:CD:106:TYR:HD1	1.95	0.48
44:CE:93:ILE:HG23	44:CE:93:ILE:O	2.13	0.48
44:CE:150:GLY:O	44:CE:154:LEU:HD13	2.13	0.48
45:CF:105:HIS:HD1	45:CF:106:TYR:HD1	1.60	0.48
45:CH:91:VAL:O	45:CH:91:VAL:HG23	2.13	0.48
45:CH:189:VAL:HG11	45:CH:415:MET:CE	2.43	0.48
44:CK:311:LYS:HD2	44:CK:342:GLN:HE22	1.77	0.48
45:CL:256:ASN:C	45:CL:257:LEU:HD12	2.32	0.48
45:CN:266:PHE:HA	45:CN:369:GLY:O	2.13	0.48
44:DA:32:PRO:HA	44:DA:83:TYR:CE1	2.48	0.48
44:DA:111:GLY:HA2	44:DA:149:LEU:CD2	2.42	0.48
44:DA:121:ARG:HB2	44:DA:121:ARG:CZ	2.43	0.48
44:DA:265:ILE:HG12	44:DA:432:TYR:CE1	2.48	0.48
45:DB:141:GLY:HA3	48:DB:501:GDP:PB	2.53	0.48
45:DB:211:CYS:HB3	45:DB:220:PRO:HG3	1.94	0.48
45:DB:257:LEU:HD23	45:DB:266:PHE:CE2	2.48	0.48
44:DC:5:ILE:HD13	44:DC:125:LEU:HB3	1.95	0.48
44:DC:244:PHE:CD2	44:DC:358:GLN:HB2	2.47	0.48
44:DE:112:LYS:HE2	44:DE:112:LYS:HA	1.95	0.48
45:DF:246:LEU:HD11	44:DG:224:TYR:HE2	1.78	0.48
44:DI:10:GLY:O	44:DI:14:ILE:HG13	2.13	0.48
44:DI:183:GLU:HA	44:DI:186:ASN:OD1	2.13	0.48
45:DL:2:ARG:HH21	45:DL:240:LEU:HD12	1.78	0.48
44:DM:199:ASP:O	44:DM:266:HIS:HB2	2.12	0.48
44:DM:375:VAL:HG13	44:DM:375:VAL:O	2.14	0.48
44:EA:8:HIS:NE2	44:EA:138:PHE:HD2	2.11	0.48
44:EA:98:ASP:OD1	44:EA:99:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:231:ILE:O	44:EA:235:ILE:HG12	2.13	0.48
45:EB:319:GLY:HA2	45:EB:357:PRO:HD3	1.94	0.48
44:EC:25:CYS:HB3	44:EC:30:ILE:HB	1.96	0.48
45:ED:4:ILE:HG22	45:ED:132:GLY:N	2.28	0.48
45:ED:263:LEU:HG	45:ED:422:TYR:CE1	2.48	0.48
45:EF:87:PRO:HD2	45:FF:281:TYR:HD2	1.78	0.48
45:EF:323:THR:HG21	44:EG:224:TYR:CD2	2.48	0.48
44:EG:172:TYR:HD2	44:EG:203:MET:CE	2.25	0.48
44:EG:305:CYS:SG	44:EG:306:ASP:N	2.86	0.48
45:EH:3:GLU:O	45:EH:131:GLN:HB3	2.13	0.48
45:EH:324:LYS:HB3	44:EI:221:ARG:NH1	2.27	0.48
44:EK:5:ILE:HD12	44:EK:135:PHE:HE1	1.78	0.48
44:EK:5:ILE:HD12	44:EK:135:PHE:CE1	2.48	0.48
44:EK:141:VAL:HG11	44:EK:172:TYR:CD1	2.48	0.48
44:EK:229:ARG:NH1	44:EK:363:VAL:HG21	2.29	0.48
45:EL:265:PHE:O	45:EL:374:ILE:HD13	2.13	0.48
44:EM:333:ALA:O	44:EM:337:THR:OG1	2.22	0.48
45:EN:24:ILE:CA	45:EN:27:GLU:HG2	2.41	0.48
45:EN:173:PRO:HG2	45:EN:380:ARG:HD3	1.94	0.48
45:EN:268:ILE:HG22	45:EN:367:PHE:O	2.14	0.48
45:EN:404:ASP:OD1	45:EN:406:MET:N	2.47	0.48
44:FA:11:GLN:OE1	45:FB:246:LEU:HG	2.13	0.48
44:FA:52:PHE:O	44:FA:63:PRO:HA	2.13	0.48
44:FA:407:TRP:CZ2	45:FB:258:ILE:HB	2.48	0.48
44:FC:291:ILE:O	44:FC:294:SER:N	2.38	0.48
44:FE:222:PRO:O	45:FF:324:LYS:HG2	2.12	0.48
44:FE:363:VAL:HG13	44:FE:363:VAL:O	2.12	0.48
45:FF:9:GLY:HA3	45:FF:147:MET:CE	2.43	0.48
45:FF:116:VAL:HA	45:FF:119:VAL:HG12	1.95	0.48
45:FF:209:ASP:OD1	45:FF:213:ARG:HD3	2.12	0.48
44:FG:329:ASN:HA	44:FG:332:ILE:CG2	2.43	0.48
45:FH:7:ILE:HB	45:FH:135:ILE:HD11	1.95	0.48
44:FI:56:THR:HA	44:GI:285:GLN:CB	2.39	0.48
44:FI:145:THR:HG23	44:FI:146:GLY:N	2.27	0.48
45:FJ:152:ILE:CD1	45:FJ:164:MET:HE1	2.42	0.48
44:FK:215:ARG:NH1	44:FK:299:ALA:HB1	2.28	0.48
45:FL:172:SER:OG	45:FL:205:GLU:HB2	2.12	0.48
45:FL:202:ILE:HD12	45:FL:300:MET:HB3	1.96	0.48
45:FN:293:MET:HE2	45:FN:367:PHE:CA	2.41	0.48
45:FN:342:VAL:HG11	45:FN:345:ILE:HG22	1.94	0.48
44:GA:188:ILE:HG22	44:GA:421:ALA:HB1	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GB:318:ARG:HH11	45:GB:358:PRO:CG	2.26	0.48
44:GC:416:GLY:O	44:GC:419:SER:N	2.46	0.48
45:GD:72:THR:HG23	45:GD:73:MET:N	2.28	0.48
44:GE:238:LEU:HD23	44:GE:238:LEU:C	2.33	0.48
45:GF:100:ASN:HD22	45:GF:103:LYS:HB2	1.78	0.48
45:GH:193:VAL:HG22	45:GH:264:HIS:HE1	1.76	0.48
45:GH:267:MET:CE	45:GH:305:PRO:HB3	2.43	0.48
45:GH:410:GLU:HA	45:GH:413:SER:OG	2.13	0.48
44:GI:24:PHE:HZ	44:GI:235:ILE:CG2	2.26	0.48
44:GI:189:LEU:HD13	44:GI:421:ALA:CB	2.43	0.48
44:GI:212:ILE:CG2	44:GI:275:ILE:HD12	2.43	0.48
44:GI:256:GLN:HE22	45:GL:397:TRP:HH2	1.61	0.48
45:GJ:3:GLU:CD	45:GJ:127:CYS:HB2	2.33	0.48
45:GJ:178:THR:H	45:GJ:181:GLU:CD	2.16	0.48
44:GK:13:GLY:HA2	44:GK:16:VAL:CG2	2.43	0.48
44:GK:141:VAL:HG11	44:GK:172:TYR:HD1	1.78	0.48
44:GK:198:THR:HG22	44:GK:199:ASP:N	2.27	0.48
44:GK:265:ILE:HG23	44:GK:432:TYR:CZ	2.47	0.48
44:GK:386:GLU:HB3	44:GK:390:ARG:NH2	2.27	0.48
45:GL:3:GLU:O	45:GL:131:GLN:HB3	2.13	0.48
44:GM:21:TRP:CH2	44:GM:63:PRO:HB3	2.48	0.48
45:GN:230:SER:HA	45:GN:233:MET:HE2	1.94	0.48
44:HA:267:PHE:O	44:HA:268:MET:HE2	2.12	0.48
45:HB:4:ILE:HB	45:HB:132:GLY:O	2.12	0.48
44:HG:19:ALA:HA	44:HG:22:GLU:OE1	2.13	0.48
44:HG:213:CYS:O	44:HG:217:LEU:N	2.47	0.48
45:HH:34:GLY:O	45:HH:58:ARG:HA	2.13	0.48
44:HK:344:VAL:CG1	44:HK:347:CYS:HB3	2.43	0.48
44:HK:363:VAL:CG2	44:HK:364:PRO:HD2	2.44	0.48
45:HL:166:THR:N	45:HL:198:GLU:O	2.44	0.48
45:HN:268:ILE:HA	45:HN:367:PHE:O	2.13	0.48
44:IA:310:GLY:O	44:IA:311:LYS:HD3	2.13	0.48
44:IA:326:LYS:HA	44:IA:329:ASN:OD1	2.13	0.48
45:IB:72:THR:HG23	45:IB:73:MET:N	2.28	0.48
45:IB:403:MET:HE1	45:IB:408:PHE:CZ	2.49	0.48
44:IC:269:LEU:HD23	44:IC:379:SER:O	2.13	0.48
45:ID:122:LYS:CE	45:ID:123:GLU:HG2	2.43	0.48
45:IF:86:ARG:HE	45:IF:87:PRO:CD	2.25	0.48
45:IF:133:PHE:O	45:IF:165:GLU:N	2.44	0.48
44:IG:205:ASP:CG	44:IG:304:LYS:H	2.16	0.48
45:IJ:60:VAL:HG23	45:IJ:84:LEU:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IL:207:LEU:HD13	45:IL:225:LEU:HB3	1.94	0.48
44:IM:2:ARG:HG2	44:IM:2:ARG:O	2.13	0.48
45:IN:238:CYS:HB2	45:IN:318:ARG:CZ	2.42	0.48
44:JA:118:CYS:SG	44:JA:153:LEU:HD13	2.53	0.48
45:JB:6:HIS:ND1	45:JB:134:GLN:HG3	2.28	0.48
45:JB:285:THR:HB	45:JB:287:PRO:HD2	1.95	0.48
45:JD:309:ARG:HH12	45:JD:339:SER:C	2.16	0.48
44:JE:107:HIS:O	44:JE:108:TYR:HD1	1.96	0.48
44:JE:191:THR:O	44:JE:195:LEU:HB2	2.13	0.48
44:JE:205:ASP:CG	44:JE:303:ALA:HA	2.32	0.48
45:JF:169:VAL:HG23	45:JF:202:ILE:O	2.13	0.48
45:JF:217:LEU:HD23	45:JF:217:LEU:H	1.77	0.48
44:JI:407:TRP:CD1	45:JJ:255:VAL:HA	2.48	0.48
45:JJ:190:HIS:CE1	45:JJ:414:ASN:HD22	2.31	0.48
44:JK:115:VAL:HG11	44:JK:152:LEU:CD2	2.43	0.48
44:JK:166:LYS:O	44:JK:199:ASP:HB2	2.12	0.48
44:JK:402:ARG:HA	44:JK:405:VAL:CG2	2.43	0.48
45:JL:97:ALA:CB	45:JL:143:THR:HG22	2.43	0.48
44:JM:102:ASN:HB3	44:JM:105:ARG:HB2	1.94	0.48
44:KC:199:ASP:O	44:KC:266:HIS:HB2	2.14	0.48
45:KD:80:PRO:O	45:KD:80:PRO:CD	2.54	0.48
45:KD:165:GLU:CG	45:KD:250:LEU:HD21	2.44	0.48
44:KE:11:GLN:HB2	44:KE:74:VAL:HG21	1.95	0.48
44:KE:109:THR:HB	44:KE:110:ILE:HD12	1.95	0.48
45:KF:197:ASP:O	45:KF:264:HIS:HB2	2.13	0.48
45:KH:146:GLY:O	45:KH:149:THR:HG22	2.13	0.48
45:KH:207:LEU:HB3	45:KH:225:LEU:HD22	1.94	0.48
44:KI:98:ASP:O	44:KI:105:ARG:NH1	2.46	0.48
44:KI:398:MET:CE	45:KJ:345:ILE:HA	2.43	0.48
45:KJ:184:ASN:OD1	45:KJ:185:ALA:N	2.45	0.48
45:KJ:232:ALA:CB	45:KJ:268:ILE:HD12	2.43	0.48
44:KK:301:MET:HG3	44:KK:303:ALA:H	1.77	0.48
44:KK:313:MET:HA	44:KK:346:TRP:CZ2	2.48	0.48
44:KK:344:VAL:CG1	44:KK:346:TRP:NE1	2.76	0.48
45:KN:16:ILE:HD12	45:KN:16:ILE:H	1.78	0.48
45:KN:202:ILE:HD11	45:KN:268:ILE:HD11	1.95	0.48
45:LB:55:THR:HG23	45:MB:283:ALA:HA	1.95	0.48
45:LB:130:LEU:HD12	45:LB:131:GLN:H	1.78	0.48
44:LC:149:LEU:O	44:LC:153:LEU:HD23	2.14	0.48
45:LD:73:MET:CE	45:LD:92:PHE:HB3	2.36	0.48
44:LE:214:ARG:HD2	44:LE:215:ARG:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:422:ARG:HH12	44:LE:426:ALA:HB2	1.78	0.48
45:LH:100:ASN:ND2	45:LH:103:LYS:HG3	2.27	0.48
44:LI:24:PHE:HZ	44:LI:235:ILE:CG2	2.26	0.48
44:LI:260:VAL:HG13	45:LL:397:TRP:HE1	1.78	0.48
44:LI:291:ILE:HG13	44:LI:292:THR:N	2.27	0.48
45:LL:7:ILE:CG2	45:LL:135:ILE:HD13	2.44	0.48
45:LL:152:ILE:HD12	45:LL:164:MET:HE2	1.93	0.48
45:LL:315:ALA:O	45:LL:316:LEU:HD23	2.13	0.48
45:LL:318:ARG:CD	45:LL:358:PRO:HD3	2.28	0.48
44:LM:183:GLU:HG2	44:LM:184:PRO:CD	2.44	0.48
44:LM:371:VAL:HG12	44:LM:372:MET:H	1.78	0.48
45:LN:114:ASP:OD1	45:LN:115:SER:N	2.46	0.48
45:LN:309:ARG:N	45:LN:372:THR:OG1	2.42	0.48
44:MA:102:ASN:O	44:MA:105:ARG:N	2.46	0.48
44:MA:182:VAL:O	44:MA:182:VAL:HG22	2.13	0.48
45:MB:167:PHE:HE1	45:MB:200:MET:SD	2.36	0.48
45:MB:285:THR:OG1	45:MB:288:GLU:HG2	2.13	0.48
44:MC:4:VAL:HG11	44:MC:252:ILE:HD12	1.95	0.48
44:ME:6:SER:O	44:ME:7:ILE:HD13	2.12	0.48
45:MF:101:TRP:NE1	45:MF:105:HIS:HB2	2.27	0.48
45:MF:184:ASN:O	45:MF:188:SER:HB3	2.14	0.48
44:MG:28:HIS:NE2	44:MG:48:ALA:O	2.35	0.48
45:MH:348:ASN:C	45:MH:349:ILE:HD12	2.32	0.48
44:MI:103:PHE:HB2	44:MI:186:ASN:HB2	1.94	0.48
45:MJ:242:PHE:CD2	45:MJ:356:ILE:HG13	2.48	0.48
44:MK:39:ASP:N	44:MK:39:ASP:OD1	2.45	0.48
45:ML:103:LYS:O	45:ML:108:GLU:HB2	2.13	0.48
44:MM:424:ASP:O	44:MM:428:LEU:N	2.38	0.48
45:MN:4:ILE:HD11	45:MN:50:TYR:CZ	2.47	0.48
45:MN:237:THR:CB	45:MN:250:LEU:HD21	2.38	0.48
45:NB:156:ARG:HH11	45:NB:164:MET:HE1	1.78	0.48
45:NB:396:HIS:HA	45:NB:399:THR:OG1	2.13	0.48
44:NC:21:TRP:O	44:NC:25:CYS:N	2.32	0.48
44:NC:207:GLU:HB2	44:NC:304:LYS:CD	2.28	0.48
45:ND:268:ILE:HG22	45:ND:368:VAL:HG23	1.94	0.48
44:NE:11:GLN:HG3	44:NE:74:VAL:CG1	2.36	0.48
44:NE:71:GLU:OE1	44:NE:73:THR:HB	2.12	0.48
44:NE:215:ARG:HH22	44:NE:300:ASN:HA	1.78	0.48
45:NF:118:ASP:O	45:NF:122:LYS:HG2	2.14	0.48
45:NF:406:MET:O	45:NF:409:THR:HG22	2.13	0.48
44:NG:13:GLY:HA2	44:NG:16:VAL:HG12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:113:ILE:HD13	45:NH:154:LYS:HZ2	1.77	0.48
44:NI:88:HIS:CD2	44:OI:283:HIS:HB3	2.48	0.48
45:NJ:101:TRP:NE1	45:NJ:145:SER:O	2.40	0.48
45:NJ:132:GLY:HA3	45:NJ:163:ILE:CG2	2.43	0.48
44:NK:268:MET:HE3	44:NK:378:ILE:HG22	1.91	0.48
45:NL:68:LEU:O	45:NL:96:GLY:HA2	2.13	0.48
44:NM:3:GLU:O	44:NM:132:LEU:HA	2.13	0.48
45:NN:64:ILE:HG12	45:NN:119:VAL:HG21	1.94	0.48
44:OA:264:ARG:HH21	44:OA:428:LEU:HA	1.76	0.48
44:OA:404:PHE:CE1	45:OB:259:PRO:HA	2.48	0.48
45:OB:68:LEU:HD12	45:OB:143:THR:CB	2.40	0.48
45:OD:187:LEU:HD11	45:OD:408:PHE:CE1	2.48	0.48
45:OD:301:CYS:HB2	45:OD:377:MET:CE	2.44	0.48
44:OE:115:VAL:HG11	44:OE:152:LEU:HD21	1.95	0.48
44:OE:328:VAL:HG12	44:OE:332:ILE:HD11	1.95	0.48
44:OG:106:GLY:O	44:OG:149:LEU:HD22	2.12	0.48
44:OG:119:LEU:O	44:OG:122:ILE:HG22	2.13	0.48
45:OH:114:ASP:O	45:OH:117:LEU:HB3	2.12	0.48
45:OH:235:GLY:HA2	45:OH:318:ARG:NH2	2.26	0.48
44:OI:17:GLY:O	44:OI:20:CYS:HB2	2.13	0.48
44:OI:102:ASN:CB	44:OI:105:ARG:HG3	2.42	0.48
44:OI:259:LEU:HD21	44:OI:316:SER:HB3	1.95	0.48
44:OI:288:VAL:O	44:OI:292:THR:HG22	2.12	0.48
44:OI:348:PRO:HD2	45:OL:388:MET:HE1	1.94	0.48
45:ON:232:ALA:HB1	45:ON:268:ILE:HD12	1.94	0.48
44:PA:227:LEU:O	44:PA:230:LEU:HB2	2.13	0.48
44:PA:249:ASN:HB3	45:PD:11:GLN:OE1	2.13	0.48
44:PA:291:ILE:O	44:PA:294:SER:OG	2.23	0.48
45:PB:46:ARG:NH2	45:PB:243:PRO:HD3	2.28	0.48
44:PC:89:PRO:HD3	44:QC:283:HIS:CE1	2.47	0.48
44:PC:311:LYS:HE3	44:PC:342:GLN:C	2.33	0.48
45:PD:130:LEU:HD22	45:PD:162:ARG:HG3	1.94	0.48
44:PE:103:PHE:HE2	44:PE:189:LEU:HB3	1.78	0.48
45:PF:16:ILE:HD12	45:PF:229:VAL:CG1	2.39	0.48
45:PF:283:ALA:O	45:PF:288:GLU:HG3	2.13	0.48
44:PG:272:TYR:HD2	44:PG:275:ILE:HD11	1.78	0.48
45:PH:385:PHE:CE2	45:PH:412:GLU:HB2	2.46	0.48
44:PI:96:LYS:HB3	45:PJ:1:MET:CE	2.42	0.48
44:PI:108:TYR:HA	44:PI:112:LYS:HE3	1.95	0.48
45:PL:8:GLN:NE2	45:PL:14:ASN:HA	2.26	0.48
44:PM:324:VAL:HG23	44:PM:327:ASP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:45:GLU:C	45:PN:46:ARG:HD3	2.34	0.48
45:PN:165:GLU:OE2	45:PN:250:LEU:HD13	2.13	0.48
45:PN:201:VAL:HG23	45:PN:301:CYS:SG	2.52	0.48
45:PN:344:TRP:CZ3	45:PN:345:ILE:HB	2.49	0.48
44:QA:268:MET:HG3	44:QA:379:SER:O	2.13	0.48
45:QB:46:ARG:O	45:QB:49:VAL:HG23	2.13	0.48
44:QC:175:PRO:CB	44:QC:390:ARG:HD3	2.38	0.48
45:QD:40:SER:O	45:QD:43:GLN:HB2	2.13	0.48
45:QD:107:THR:HG23	45:QD:108:GLU:H	1.78	0.48
44:QE:21:TRP:HA	44:QE:24:PHE:HB2	1.96	0.48
45:QF:350:LYS:NZ	45:QF:351:SER:H	2.11	0.48
44:QI:88:HIS:CB	44:QI:91:GLN:HB3	2.38	0.48
44:QI:188:ILE:O	44:QI:191:THR:HB	2.13	0.48
45:QJ:272:PRO:HB3	45:QJ:292:GLN:OE1	2.13	0.48
44:QK:36:MET:O	44:QK:36:MET:SD	2.71	0.48
44:QK:119:LEU:HD21	44:QK:156:ARG:CD	2.43	0.48
44:QK:350:GLY:CA	45:QL:179:VAL:HG11	2.43	0.48
44:QM:383:ALA:O	44:QM:386:GLU:HG2	2.13	0.48
44:RA:217:LEU:HB3	44:RA:219:ILE:HG13	1.95	0.48
45:RB:1:MET:HE2	44:RC:72:PRO:HG2	1.94	0.48
45:RB:119:VAL:HG13	45:RB:120:VAL:N	2.28	0.48
44:RC:149:LEU:O	44:RC:153:LEU:HG	2.13	0.48
44:RC:203:MET:CE	44:RC:387:VAL:HG21	2.43	0.48
45:RD:313:ALA:N	45:RD:348:ASN:O	2.46	0.48
45:RF:148:GLY:O	45:RF:152:ILE:HG12	2.12	0.48
44:RG:67:PHE:CB	44:RG:92:LEU:HG	2.33	0.48
44:RG:252:ILE:O	44:RG:255:PHE:HD2	1.95	0.48
45:RJ:310:TYR:O	45:RJ:311:LEU:HD23	2.12	0.48
44:RK:288:VAL:HG11	44:RK:327:ASP:HB3	1.94	0.48
45:RL:46:ARG:HH21	44:RM:73:THR:HA	1.78	0.48
44:RM:312:TYR:O	44:RM:344:VAL:N	2.45	0.48
44:RM:348:PRO:HB2	45:RN:384:GLN:OE1	2.13	0.48
44:SA:88:HIS:ND1	44:SA:89:PRO:HD2	2.28	0.48
45:SB:1:MET:SD	45:SB:2:ARG:N	2.86	0.48
45:SB:185:ALA:O	45:SB:189:VAL:HG23	2.13	0.48
45:SB:257:LEU:O	45:SB:266:PHE:CE1	2.67	0.48
44:SC:71:GLU:OE1	44:SC:73:THR:HB	2.13	0.48
45:SD:86:ARG:NH1	45:TD:281:TYR:HB3	2.25	0.48
45:SD:150:LEU:CD2	45:SD:154:LYS:HG3	2.43	0.48
45:SD:267:MET:HE3	45:SD:305:PRO:HB3	1.95	0.48
44:SE:66:VAL:HG23	44:SE:121:ARG:HG2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:225:THR:O	44:SE:229:ARG:HG3	2.13	0.48
44:SE:240:ALA:O	44:SE:356:ASN:ND2	2.46	0.48
44:SE:352:LYS:O	44:SE:352:LYS:HD2	2.13	0.48
44:SG:156:ARG:HG2	44:SG:160:ASP:OD2	2.12	0.48
45:SH:54:ALA:HB3	45:SH:58:ARG:O	2.13	0.48
44:SI:164:LYS:HE2	44:SI:164:LYS:HA	1.95	0.48
45:SJ:267:MET:CE	45:SJ:373:ALA:HB3	2.43	0.48
45:SJ:351:SER:HB2	44:SK:179:THR:CG2	2.26	0.48
44:SK:270:SER:OG	44:SK:302:MET:CE	2.62	0.48
44:SK:271:SER:H	44:SK:377:MET:HG3	1.78	0.48
45:SL:25:SER:O	45:SL:30:ILE:N	2.32	0.48
45:SL:245:GLN:C	45:SL:246:LEU:HD12	2.33	0.48
44:SM:157:LEU:HD22	44:SM:161:TYR:CD1	2.47	0.48
44:SM:261:PRO:HA	45:SN:394:PHE:CD1	2.48	0.48
44:SM:269:LEU:HD12	44:SM:301:MET:CE	2.43	0.48
44:SM:390:ARG:HB2	44:SM:394:LYS:HZ3	1.76	0.48
44:TA:319:TYR:CE1	44:TA:375:VAL:HG21	2.48	0.48
44:TC:301:MET:HA	44:TC:301:MET:CE	2.42	0.48
45:TD:21:TRP:CE3	45:TD:61:PRO:HB3	2.48	0.48
45:TD:165:GLU:OE2	45:TD:250:LEU:HD22	2.13	0.48
45:TD:351:SER:OG	44:TE:179:THR:HG23	2.13	0.48
45:TF:18:ALA:HB2	45:TF:76:VAL:HG21	1.95	0.48
45:TF:301:CYS:HB3	45:TF:377:MET:CE	2.42	0.48
44:TG:381:SER:OG	44:TG:384:ILE:HB	2.13	0.48
44:TI:13:GLY:HA2	44:TI:16:VAL:HG12	1.95	0.48
44:TI:150:GLY:O	44:TI:153:LEU:HB2	2.13	0.48
45:TJ:46:ARG:HB2	45:TJ:241:ARG:O	2.11	0.48
45:TJ:198:GLU:OE2	45:TJ:254:ALA:HB2	2.13	0.48
45:TJ:209:ASP:OD1	45:TJ:213:ARG:HD3	2.12	0.48
45:TJ:315:ALA:C	45:TJ:316:LEU:HD12	2.34	0.48
44:TK:241:SER:HB2	44:TK:249:ASN:CA	2.42	0.48
44:TK:349:THR:HG1	45:TL:176:SER:HG	0.52	0.48
45:TL:150:LEU:HD23	45:TL:154:LYS:HG3	1.95	0.48
44:TM:25:CYS:CB	44:TM:30:ILE:HB	2.43	0.48
44:TM:93:ILE:HD11	44:TM:121:ARG:NH1	2.28	0.48
44:TM:288:VAL:HG21	44:TM:323:VAL:CG2	2.42	0.48
45:TN:272:PRO:CG	45:TN:289:LEU:HD21	2.43	0.48
45:TN:299:MET:CE	45:TN:305:PRO:HG3	2.43	0.48
45:TN:321:MET:HE1	45:TN:326:VAL:HG21	1.95	0.48
44:UA:16:VAL:CG1	44:UA:138:PHE:HB3	2.43	0.48
45:UB:102:ALA:CB	45:UB:403:MET:HE3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:174:LYS:HD3	45:UB:175:VAL:HG13	1.94	0.48
45:UB:258:ILE:O	45:UB:258:ILE:HG22	2.14	0.48
44:UC:234:VAL:HG13	44:UC:376:CYS:SG	2.53	0.48
45:UD:322:SER:O	44:UE:221:ARG:NH2	2.46	0.48
44:UE:66:VAL:HG11	44:UE:122:ILE:CD1	2.44	0.48
44:UE:183:GLU:CD	44:UE:184:PRO:HD3	2.33	0.48
45:UF:4:ILE:CG2	45:UF:131:GLN:HB3	2.43	0.48
45:UF:330:MET:SD	45:UF:334:GLN:HB2	2.53	0.48
45:UH:101:TRP:HB3	45:UH:398:TYR:CE1	2.38	0.48
45:UH:201:VAL:HG22	45:UH:202:ILE:N	2.28	0.48
45:UH:207:LEU:HD13	45:UH:225:LEU:HD13	1.95	0.48
44:UI:47:ASP:HA	44:UI:49:PHE:CE1	2.48	0.48
44:UI:176:GLN:NE2	44:UI:207:GLU:OE2	2.45	0.48
44:UI:201:ALA:O	44:UI:267:PHE:HA	2.12	0.48
44:UI:263:PRO:HD3	45:UJ:396:HIS:CE1	2.48	0.48
45:UJ:7:ILE:HG23	45:UJ:66:MET:HE3	1.94	0.48
45:UJ:73:MET:HA	45:UJ:73:MET:CE	2.44	0.48
45:UJ:246:LEU:HD11	44:UK:224:TYR:CE2	2.48	0.48
45:UJ:256:ASN:OD1	44:UK:181:VAL:HG22	2.13	0.48
44:UK:31:GLN:NE2	44:UK:37:PRO:HB3	2.29	0.48
44:UK:307:PRO:HD2	44:UK:308:ARG:H	1.78	0.48
45:UL:91:VAL:HG11	45:UL:115:SER:OG	2.13	0.48
45:UN:52:ASN:HB2	45:UN:60:VAL:O	2.13	0.48
45:UN:100:ASN:ND2	45:UN:103:LYS:H	2.11	0.48
45:UN:417:ASP:OD1	45:UN:421:GLU:HG3	2.14	0.48
44:VA:332:ILE:O	44:VA:335:ILE:HB	2.13	0.48
44:VC:93:ILE:HD11	44:VC:121:ARG:NH2	2.27	0.48
44:VC:386:GLU:O	44:VC:389:SER:N	2.46	0.48
44:VC:404:PHE:CZ	45:VD:259:PRO:HA	2.48	0.48
44:VE:22:GLU:HG3	44:VE:83:TYR:CE2	2.48	0.48
44:VG:357:TYR:O	44:VG:359:PRO:HD3	2.13	0.48
45:VH:320:ARG:O	45:VH:320:ARG:HG3	2.13	0.48
44:VI:169:PHE:HD1	44:VI:202:VAL:HB	1.78	0.48
45:VJ:193:VAL:HG23	45:VJ:264:HIS:CE1	2.33	0.48
45:VJ:251:ARG:O	45:VJ:254:ALA:HB3	2.13	0.48
45:VJ:306:ARG:HG3	45:VJ:307:HIS:HD2	1.78	0.48
45:VL:317:PHE:HB2	45:VL:352:SER:O	2.14	0.48
44:VM:137:VAL:HG13	44:VM:137:VAL:O	2.13	0.48
44:VM:244:PHE:HB2	44:VM:356:ASN:ND2	2.14	0.48
44:WA:213:CYS:O	44:WA:219:ILE:N	2.25	0.48
44:WA:316:SER:HA	44:WA:352:LYS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:102:ALA:HB3	45:WB:401:GLU:OE1	2.13	0.48
45:WB:319:GLY:N	45:WB:357:PRO:HB3	2.27	0.48
44:WC:4:VAL:HG23	44:WC:134:GLY:O	2.13	0.48
44:WC:121:ARG:O	44:WC:125:LEU:HD23	2.13	0.48
44:WC:224:TYR:HE2	45:WD:246:LEU:HD11	1.77	0.48
45:WD:27:GLU:CD	45:WD:241:ARG:HH12	2.16	0.48
45:WD:390:ARG:HD2	45:WD:391:ARG:NH2	2.13	0.48
45:WF:4:ILE:HG23	45:WF:131:GLN:HB3	1.96	0.48
44:WG:200:VAL:HG13	44:WG:268:MET:HE1	1.95	0.48
44:WG:203:MET:HG3	44:WG:384:ILE:HD11	1.95	0.48
44:WI:105:ARG:NH1	45:WJ:251:ARG:HH12	2.11	0.48
44:WI:176:GLN:O	45:WJ:347:ASN:ND2	2.46	0.48
45:WJ:64:ILE:HD13	45:WJ:89:ASN:HB3	1.95	0.48
44:WK:348:PRO:HB2	45:WN:384:GLN:OE1	2.13	0.48
45:WL:7:ILE:HG13	45:WL:7:ILE:O	2.13	0.48
45:WL:214:THR:O	45:WL:216:LYS:HG3	2.12	0.48
45:WL:263:LEU:HG	45:WL:422:TYR:CE1	2.48	0.48
45:WL:311:LEU:CD2	45:WL:342:VAL:HG11	2.43	0.48
44:WM:137:VAL:HG12	44:WM:168:GLY:HA2	1.94	0.48
44:WM:310:GLY:CA	44:WM:383:ALA:HB2	2.43	0.48
45:WN:221:THR:HG22	45:WN:224:ASP:OD2	2.13	0.48
8:0G:43:SER:HA	45:JL:355:ASP:HB3	1.96	0.48
8:0G:162:ALA:HB3	44:KM:45:GLY:N	2.26	0.48
2:1A:117:HIS:CE1	44:AC:357:TYR:CD1	3.00	0.48
4:1C:83:SER:OG	45:EL:355:ASP:OD2	2.30	0.48
10:1N:21:GLU:OE2	45:JJ:276:ARG:HB2	2.12	0.48
26:1R:87:LEU:HD13	44:MC:85:GLN:HE22	1.79	0.48
26:1R:503:ASP:OD2	44:EC:40:LYS:HA	2.14	0.48
2:2A:10:PRO:CG	45:LJ:31:ASP:HB3	2.42	0.48
2:2A:46:LYS:HG2	35:5R:67:TYR:CZ	2.48	0.48
32:3I:203:SER:HB3	44:GK:340:THR:CB	2.44	0.48
14:3U:226:ILE:HG13	44:WK:41:THR:HG21	1.95	0.48
15:3V:92:THR:HG21	45:LB:156:ARG:HH21	1.77	0.48
28:4C:223:GLN:CB	44:KM:219:ILE:HG23	2.43	0.48
37:5B:57:PRO:HG3	45:KF:390:ARG:NH2	2.28	0.48
37:5D:56:ILE:O	44:KK:346:TRP:HA	2.13	0.48
38:5E:83:LEU:HD11	44:KA:406:HIS:HA	1.96	0.48
38:5G:9:TYR:N	38:5G:10:PRO:CD	2.77	0.48
38:5G:132:THR:HG22	38:5G:133:PRO:HD2	1.95	0.48
39:5J:74:ASP:O	39:5J:78:THR:HG23	2.13	0.48
35:5R:220:ILE:HG23	35:5R:221:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:364:MET:CE	35:5R:364:MET:HA	2.43	0.48
11:6Q:137:SER:O	11:6Q:140:THR:HG22	2.13	0.48
42:8N:36:UNK:O	42:8N:39:UNK:N	2.47	0.48
45:AB:135:ILE:O	45:AB:167:PHE:HD2	1.96	0.48
44:AC:183:GLU:N	44:AC:184:PRO:HD2	2.28	0.48
45:AD:6:HIS:CD2	45:AD:134:GLN:HG3	2.48	0.48
44:AE:413:MET:SD	44:AE:417:GLU:HG2	2.53	0.48
45:AF:36:TYR:CE1	45:AF:44:LEU:HD11	2.48	0.48
45:AF:379:LYS:HD3	45:AF:419:VAL:HG11	1.95	0.48
45:AH:306:ARG:HH11	45:AH:306:ARG:HG3	1.77	0.48
45:AH:334:GLN:NE2	45:AH:348:ASN:H	2.10	0.48
44:AI:8:HIS:HD1	44:AI:67:PHE:HE1	1.60	0.48
44:AI:102:ASN:HB3	44:AI:105:ARG:CG	2.40	0.48
44:AI:288:VAL:HA	44:AI:291:ILE:HG12	1.93	0.48
44:AK:7:ILE:CD1	44:AK:122:ILE:HD11	2.39	0.48
44:AK:18:ASN:O	44:AK:22:GLU:OE1	2.31	0.48
44:AK:417:GLU:O	44:AK:420:GLU:HG2	2.13	0.48
45:AL:100:ASN:OD1	45:AL:103:LYS:HB2	2.14	0.48
45:AL:217:LEU:O	45:AL:217:LEU:HD12	2.13	0.48
44:BA:11:GLN:O	44:BA:15:GLN:HG2	2.13	0.48
44:BA:189:LEU:HD23	44:BA:421:ALA:CB	2.44	0.48
45:BF:68:LEU:HD21	45:BF:108:GLU:HG2	1.95	0.48
44:BG:118:CYS:SG	44:BG:153:LEU:HD21	2.53	0.48
45:BH:134:GLN:HG3	45:BH:134:GLN:O	2.14	0.48
45:BH:268:ILE:HG22	45:BH:368:VAL:HA	1.95	0.48
44:BI:288:VAL:HG11	44:BI:327:ASP:CB	2.41	0.48
45:BJ:311:LEU:CD1	45:BJ:372:THR:HG23	2.43	0.48
45:BL:229:VAL:HG22	45:BL:300:MET:HE2	1.95	0.48
45:BN:66:MET:HG2	45:BN:91:VAL:HG23	1.95	0.48
45:BN:268:ILE:HG22	45:BN:368:VAL:HG12	1.95	0.48
44:CA:9:VAL:HG12	44:CA:139:ASN:HB3	1.95	0.48
45:CB:131:GLN:HG2	45:CB:250:LEU:HD12	1.94	0.48
45:CB:254:ALA:HA	45:CB:258:ILE:CD1	2.43	0.48
45:CB:331:LEU:HD11	44:CC:176:GLN:HB2	1.94	0.48
44:CC:49:PHE:O	44:CC:53:PHE:N	2.45	0.48
45:CD:261:PRO:HD3	44:CE:406:HIS:CG	2.48	0.48
45:CD:314:SER:OG	45:CD:350:LYS:HD3	2.13	0.48
45:CF:4:ILE:HG22	45:CF:132:GLY:N	2.28	0.48
45:CF:344:TRP:CE3	45:CF:345:ILE:HB	2.47	0.48
44:CG:137:VAL:HG12	44:CG:168:GLY:HA2	1.95	0.48
44:CI:210:TYR:CE1	44:CI:227:LEU:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:251:ARG:CA	45:CL:254:ALA:HB3	2.36	0.48
45:CL:327:ASP:O	45:CL:330:MET:HB2	2.13	0.48
44:CM:171:ILE:HD13	46:CM:501:GTP:N2	2.29	0.48
44:DA:257:THR:HG21	45:DB:100:ASN:HB2	1.94	0.48
45:DB:1:MET:HE2	44:DC:96:LYS:HB3	1.94	0.48
45:DB:117:LEU:HD21	45:DB:158:GLU:OE2	2.13	0.48
45:DB:260:PHE:CZ	44:DC:403:ALA:HA	2.47	0.48
45:DB:290:THR:HG21	45:DB:329:GLN:HG2	1.94	0.48
45:DD:347:ASN:HB3	44:DE:178:SER:OG	2.12	0.48
44:DE:54:SER:HB3	44:DE:64:ARG:NE	2.28	0.48
44:DE:349:THR:HG23	45:DF:179:VAL:CA	2.39	0.48
45:DF:20:PHE:CE1	45:DF:24:ILE:HG13	2.47	0.48
45:DF:61:PRO:HD2	45:DF:84:LEU:O	2.14	0.48
45:DF:86:ARG:HH12	45:EF:280:GLN:HB3	1.78	0.48
44:DI:358:GLN:CD	44:DI:359:PRO:HD2	2.33	0.48
45:DL:139:LEU:HB3	45:DL:185:ALA:HA	1.95	0.48
44:DM:188:ILE:HD11	44:DM:425:LEU:CD1	2.43	0.48
44:EA:240:ALA:HB1	44:EA:356:ASN:HD22	1.78	0.48
44:EA:361:THR:HG23	44:EA:361:THR:O	2.13	0.48
45:EB:86:ARG:HD2	45:EB:89:ASN:CG	2.34	0.48
45:EB:169:VAL:HG13	45:EB:202:ILE:HG22	1.95	0.48
45:EB:201:VAL:HG21	45:EB:377:MET:HE1	1.95	0.48
45:EB:314:SER:O	45:EB:368:VAL:N	2.44	0.48
44:EC:154:LEU:HD13	44:EC:197:HIS:HB2	1.94	0.48
44:EC:183:GLU:N	44:EC:184:PRO:HD2	2.28	0.48
44:EC:183:GLU:OE2	44:EC:184:PRO:HD3	2.14	0.48
44:EC:240:ALA:HB1	44:EC:356:ASN:ND2	2.28	0.48
44:EE:169:PHE:HE2	44:EE:202:VAL:CG2	2.27	0.48
44:EE:373:ARG:NE	44:EE:373:ARG:HA	2.29	0.48
45:EF:246:LEU:HD21	46:EG:501:GTP:C8	2.49	0.48
44:EG:145:THR:HG21	46:EG:501:GTP:O1B	2.13	0.48
45:EH:315:ALA:C	45:EH:316:LEU:HD12	2.34	0.48
45:EH:337:ASN:O	45:EH:340:TYR:N	2.44	0.48
45:EH:405:GLU:HG2	45:EH:406:MET:HE2	1.95	0.48
44:EI:229:ARG:HH11	44:EI:229:ARG:HG2	1.78	0.48
45:EJ:246:LEU:HD13	44:EK:224:TYR:HE2	1.79	0.48
44:EK:179:THR:HB	46:EK:501:GTP:O3'	2.14	0.48
45:EL:183:TYR:CE2	45:EL:388:MET:HE3	2.48	0.48
45:EL:390:ARG:HG3	45:EL:391:ARG:N	2.28	0.48
44:EM:344:VAL:HG11	44:EM:346:TRP:CE2	2.49	0.48
44:FA:55:GLU:OE1	44:FA:55:GLU:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:7:ILE:O	45:FB:135:ILE:HA	2.14	0.48
44:FE:5:ILE:HD12	44:FE:135:PHE:CE1	2.38	0.48
44:FE:88:HIS:H	44:FE:91:GLN:NE2	2.11	0.48
44:FE:383:ALA:O	44:FE:386:GLU:HG2	2.13	0.48
45:FJ:309:ARG:H	45:FJ:372:THR:CG2	2.26	0.48
44:FK:344:VAL:HG11	44:FK:346:TRP:CH2	2.47	0.48
44:FK:375:VAL:O	44:FK:375:VAL:HG13	2.13	0.48
44:FM:141:VAL:HG13	44:FM:173:PRO:HD3	1.94	0.48
44:FM:232:ALA:HA	44:FM:235:ILE:HB	1.94	0.48
44:FM:256:GLN:HA	44:FM:260:VAL:HG23	1.96	0.48
44:FM:292:THR:HG21	44:FM:331:SER:HB3	1.95	0.48
45:FN:4:ILE:HG22	45:FN:132:GLY:H	1.78	0.48
45:FN:172:SER:OG	45:FN:175:VAL:HG22	2.14	0.48
44:GA:311:LYS:NZ	44:GA:344:VAL:N	2.60	0.48
45:GB:22:GLU:CG	45:GB:81:PHE:HB2	2.42	0.48
45:GB:30:ILE:HD11	45:GB:47:ILE:HD11	1.94	0.48
45:GB:244:GLY:HA2	45:GB:354:CYS:HA	1.95	0.48
45:GD:68:LEU:HD23	45:GD:97:ALA:N	2.29	0.48
44:GE:1:MET:HA	44:GE:1:MET:HE1	1.96	0.48
44:GE:98:ASP:HB3	45:GF:249:ASP:OD2	2.14	0.48
45:GF:398:TYR:O	45:GF:403:MET:HB2	2.12	0.48
44:GG:237:SER:HB3	44:GG:376:CYS:CB	2.43	0.48
45:GJ:152:ILE:CD1	45:GJ:164:MET:HE1	2.36	0.48
45:GL:40:SER:H	45:GL:43:GLN:NE2	2.11	0.48
44:GM:69:ASP:CG	44:GM:71:GLU:H	2.16	0.48
44:GM:217:LEU:HA	44:GM:277:SER:CB	2.38	0.48
45:GN:46:ARG:O	45:GN:49:VAL:HG23	2.13	0.48
45:GN:98:GLY:O	45:GN:99:ASN:HB2	2.13	0.48
44:HA:28:HIS:HE1	44:HA:48:ALA:O	1.95	0.48
44:HA:79:ARG:O	44:HA:84:ARG:HB3	2.12	0.48
44:HA:99:ALA:O	44:HA:105:ARG:HD3	2.13	0.48
44:HA:141:VAL:HG22	44:HA:187:SER:CA	2.42	0.48
44:HA:258:ASN:CG	45:HD:179:VAL:HG22	2.32	0.48
44:HC:107:HIS:HB2	44:HC:148:GLY:CA	2.43	0.48
44:HE:172:TYR:HE2	44:HE:203:MET:HE1	1.79	0.48
45:HF:4:ILE:HB	45:HF:132:GLY:O	2.13	0.48
44:HG:89:PRO:HD3	44:IG:283:HIS:ND1	2.28	0.48
44:HI:188:ILE:CD1	44:HI:425:LEU:HD11	2.44	0.48
44:HI:403:ALA:O	44:HI:404:PHE:HB2	2.14	0.48
45:HJ:238:CYS:HB2	45:HJ:318:ARG:HH21	1.76	0.48
45:HJ:315:ALA:C	45:HJ:316:LEU:HD12	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:350:GLY:HA2	45:HN:179:VAL:HG12	1.95	0.48
44:HM:169:PHE:HB3	44:HM:204:LEU:CD1	2.40	0.48
45:HN:217:LEU:CD1	45:HN:220:PRO:HG3	2.41	0.48
44:IA:6:SER:O	44:IA:65:ALA:HA	2.13	0.48
44:IA:31:GLN:HB3	44:IA:32:PRO:CD	2.43	0.48
44:IA:349:THR:HG23	44:IA:349:THR:O	2.13	0.48
45:IB:256:ASN:CB	45:IB:350:LYS:HD2	2.42	0.48
44:IC:22:GLU:HG3	44:IC:83:TYR:CE2	2.48	0.48
44:IC:221:ARG:HG3	45:ID:322:SER:OG	2.13	0.48
45:ID:151:LEU:HD21	45:ID:155:VAL:HG21	1.95	0.48
45:IF:37:HIS:ND1	45:IF:37:HIS:O	2.46	0.48
44:IG:31:GLN:CD	44:IG:37:PRO:HA	2.33	0.48
44:IG:208:ALA:O	44:IG:212:ILE:HG12	2.13	0.48
45:IH:210:ILE:HD12	45:IH:300:MET:HE1	1.96	0.48
45:IH:258:ILE:HG13	45:IH:266:PHE:HZ	1.78	0.48
44:II:11:GLN:N	46:II:501:GTP:O2B	2.30	0.48
45:IJ:19:LYS:HG3	45:IJ:230:SER:HB2	1.94	0.48
45:IJ:304:ASP:OD1	45:IJ:305:PRO:HD2	2.13	0.48
44:IK:103:PHE:CZ	44:IK:189:LEU:HB3	2.48	0.48
45:IL:215:LEU:HB3	45:IL:217:LEU:HD23	1.94	0.48
44:IM:296:PHE:HD2	44:IM:335:ILE:HD12	1.78	0.48
45:IN:86:ARG:HH22	44:JK:280:LYS:HA	1.78	0.48
45:IN:91:VAL:HG21	45:IN:115:SER:OG	2.13	0.48
45:JB:100:ASN:HD21	45:JB:103:LYS:CE	2.26	0.48
44:JC:413:MET:HE3	44:JC:413:MET:HB2	1.60	0.48
44:JG:352:LYS:HD2	44:JG:353:VAL:H	1.78	0.48
45:JH:256:ASN:HD22	45:JH:350:LYS:HD2	1.78	0.48
45:JL:83:GLN:HG2	45:JL:83:GLN:O	2.13	0.48
44:JM:221:ARG:NH2	45:JN:322:SER:H	2.11	0.48
44:JM:420:GLU:HG3	44:JM:421:ALA:N	2.28	0.48
45:JN:86:ARG:NH2	45:JN:123:GLU:OE2	2.46	0.48
45:JN:310:TYR:CD2	45:JN:341:PHE:HE1	2.31	0.48
44:KA:311:LYS:HE2	44:KA:342:GLN:NE2	2.27	0.48
45:KB:44:LEU:CD2	45:KB:47:ILE:HD12	2.43	0.48
44:KC:103:PHE:CE1	44:KC:148:GLY:HA2	2.48	0.48
44:KC:103:PHE:HE1	44:KC:148:GLY:HA2	1.78	0.48
44:KC:263:PRO:HD3	45:KF:396:HIS:CG	2.49	0.48
45:KD:392:LYS:HG2	45:KD:395:LEU:CD2	2.43	0.48
44:KE:349:THR:O	44:KE:349:THR:HG23	2.13	0.48
45:KF:156:ARG:NH1	45:KF:162:ARG:O	2.45	0.48
45:KF:258:ILE:HD11	45:KF:266:PHE:CZ	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:176:GLN:HG2	44:KG:177:VAL:N	2.28	0.48
44:KK:151:SER:HB3	44:KK:193:SER:OG	2.13	0.48
44:KK:298:PRO:HB3	44:KK:306:ASP:OD1	2.13	0.48
45:KL:49:VAL:HG11	45:KL:241:ARG:CG	2.43	0.48
45:KL:310:TYR:CZ	45:KL:371:SER:HB3	2.49	0.48
44:KM:167:LEU:CD2	44:KM:252:ILE:HG23	2.43	0.48
44:KM:262:TYR:CE2	44:KM:435:VAL:HG21	2.49	0.48
44:KM:344:VAL:HG12	44:KM:347:CYS:CB	2.41	0.48
44:KM:387:VAL:HG13	44:KM:388:PHE:N	2.28	0.48
45:KN:273:LEU:N	45:KN:292:GLN:OE1	2.47	0.48
45:KN:375:GLN:OE1	45:KN:379:LYS:HD2	2.13	0.48
44:LA:326:LYS:HE2	45:LD:219:THR:HG22	1.94	0.48
45:LB:170:VAL:HG23	45:LB:170:VAL:O	2.14	0.48
44:LC:107:HIS:O	44:LC:108:TYR:HD1	1.96	0.48
44:LC:110:ILE:HG13	44:LC:110:ILE:O	2.13	0.48
45:LD:262:ARG:HG3	45:LD:262:ARG:HH11	1.78	0.48
45:LF:235:GLY:HA2	45:LF:318:ARG:NH1	2.29	0.48
44:LG:258:ASN:OD1	45:LJ:179:VAL:HG22	2.13	0.48
44:LI:25:CYS:SG	44:LI:30:ILE:HD11	2.54	0.48
44:LI:28:HIS:HE1	44:LI:243:ARG:HE	1.60	0.48
44:LI:199:ASP:O	44:LI:266:HIS:HB2	2.13	0.48
44:LI:260:VAL:HG22	44:LI:262:TYR:O	2.12	0.48
44:LI:305:CYS:SG	44:LI:383:ALA:HB1	2.52	0.48
44:LK:262:TYR:CE1	45:LN:393:ALA:HA	2.48	0.48
44:LM:55:GLU:HG3	44:LM:57:GLY:H	1.79	0.48
44:LM:66:VAL:O	44:LM:66:VAL:HG13	2.13	0.48
45:LN:321:MET:HG3	45:LN:326:VAL:HG21	1.95	0.48
44:MA:332:ILE:HG23	44:MA:351:PHE:CE1	2.47	0.48
45:MB:6:HIS:CE1	45:MB:136:THR:HG23	2.48	0.48
45:MB:27:GLU:O	45:MB:42:LEU:HG	2.13	0.48
45:MB:68:LEU:HG	45:MB:96:GLY:CA	2.43	0.48
45:MD:175:VAL:O	45:MD:175:VAL:HG23	2.14	0.48
45:MD:323:THR:HG22	45:MD:327:ASP:OD2	2.13	0.48
44:ME:17:GLY:O	44:ME:21:TRP:HD1	1.96	0.48
44:ME:310:GLY:HA3	44:ME:382:THR:HG1	1.76	0.48
45:MF:65:LEU:HB3	45:MF:73:MET:SD	2.54	0.48
45:MH:62:ARG:HB2	45:MH:123:GLU:OE2	2.12	0.48
45:MH:86:ARG:CG	45:MH:87:PRO:HD2	2.43	0.48
44:MK:280:LYS:HB3	44:MK:283:HIS:HD2	1.78	0.48
45:ML:286:VAL:HB	45:ML:325:GLU:CG	2.43	0.48
44:MM:69:ASP:OD2	44:MM:74:VAL:HG21	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MN:62:ARG:HH22	45:MN:127:CYS:HA	1.79	0.48
44:NA:189:LEU:HD11	44:NA:418:PHE:CE1	2.49	0.48
44:NA:231:ILE:O	44:NA:235:ILE:HG12	2.13	0.48
44:NA:328:VAL:HG21	44:NA:353:VAL:HG21	1.96	0.48
45:NB:68:LEU:HD12	45:NB:93:GLY:HA3	1.94	0.48
44:NC:262:TYR:HE1	45:NF:392:LYS:O	1.97	0.48
45:ND:172:SER:OG	45:ND:175:VAL:O	2.30	0.48
44:NE:209:ILE:HG12	44:NE:302:MET:SD	2.53	0.48
44:NE:395:PHE:CE2	44:NE:422:ARG:HD3	2.48	0.48
45:NF:46:ARG:O	45:NF:49:VAL:HG22	2.14	0.48
45:NF:232:ALA:CB	45:NF:268:ILE:HD12	2.37	0.48
45:NF:318:ARG:HG2	45:NF:358:PRO:HD3	1.95	0.48
44:NG:222:PRO:HD2	45:NH:324:LYS:CE	2.42	0.48
44:NG:260:VAL:HG22	44:NG:262:TYR:O	2.13	0.48
44:NG:262:TYR:HE1	45:NJ:393:ALA:HA	1.79	0.48
45:NH:175:VAL:O	45:NH:175:VAL:HG23	2.13	0.48
45:NH:304:ASP:HB3	45:NH:307:HIS:CG	2.49	0.48
44:NI:274:PRO:O	44:NI:275:ILE:HD13	2.13	0.48
45:NJ:374:ILE:HG22	45:NJ:422:TYR:CE1	2.48	0.48
44:NK:60:LYS:HD2	44:OK:282:TYR:HE2	1.78	0.48
44:NK:398:MET:HE2	45:NL:345:ILE:HD12	1.95	0.48
45:NL:380:ARG:HA	45:NL:383:GLU:OE1	2.13	0.48
44:OA:8:HIS:HB2	44:OA:67:PHE:HD1	1.78	0.48
44:OA:154:LEU:HD23	44:OA:166:LYS:HZ3	1.77	0.48
45:OB:286:VAL:HG22	45:OB:321:MET:HE3	1.95	0.48
45:OD:175:VAL:HG11	45:OD:205:GLU:CA	2.43	0.48
44:OE:66:VAL:HG22	44:OE:68:LEU:HD23	1.94	0.48
44:OE:236:SER:CB	44:OE:320:ARG:HH22	2.26	0.48
45:OF:332:ASN:OD1	45:OF:333:VAL:N	2.46	0.48
45:OH:207:LEU:HD23	45:OH:300:MET:HE1	1.96	0.48
45:OH:251:ARG:O	45:OH:254:ALA:N	2.45	0.48
45:OJ:332:ASN:O	45:OJ:335:ASN:N	2.36	0.48
45:OL:61:PRO:HD3	45:OL:84:LEU:O	2.13	0.48
44:OM:312:TYR:CE2	44:OM:379:SER:HB2	2.47	0.48
45:ON:68:LEU:CD2	45:ON:112:LEU:HD23	2.43	0.48
44:PA:16:VAL:CG2	44:PA:231:ILE:HG21	2.43	0.48
44:PA:306:ASP:OD1	44:PA:308:ARG:HB2	2.14	0.48
45:PB:211:CYS:SG	45:PB:215:LEU:HD12	2.53	0.48
45:PB:268:ILE:HG21	45:PB:368:VAL:HG22	1.95	0.48
45:PB:323:THR:O	45:PB:326:VAL:HB	2.13	0.48
44:PC:115:VAL:CG2	44:PC:156:ARG:HD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:212:ILE:CD1	44:PC:300:ASN:HA	2.43	0.48
44:PC:313:MET:HG2	44:PC:380:ASN:HD21	1.77	0.48
45:PD:31:ASP:HB3	45:PD:32:PRO:HD2	1.95	0.48
44:PE:174:SER:HB2	44:PE:177:VAL:O	2.14	0.48
45:PF:314:SER:HB3	45:PF:368:VAL:CG1	2.36	0.48
45:PF:332:ASN:OD1	45:PF:336:LYS:NZ	2.20	0.48
44:PG:1:MET:CE	45:PJ:94:GLN:HB3	2.44	0.48
44:PK:317:MET:HE1	44:PK:375:VAL:CG2	2.43	0.48
45:PL:236:VAL:HG13	45:PL:253:LEU:HD22	1.95	0.48
45:PN:139:LEU:HD23	45:PN:185:ALA:CA	2.43	0.48
45:PN:317:PHE:HA	45:PN:365:VAL:CG1	2.44	0.48
45:PN:382:ALA:O	45:PN:386:THR:HG23	2.12	0.48
45:QB:269:GLY:HA3	45:QB:299:MET:CE	2.44	0.48
44:QC:26:LEU:CD2	44:QC:364:PRO:HD2	2.43	0.48
44:QC:372:MET:HB2	44:QC:373:ARG:HH12	1.75	0.48
45:QD:276:ARG:HA	45:QD:276:ARG:HD3	1.62	0.48
45:QD:330:MET:HA	45:QD:333:VAL:CG1	2.43	0.48
44:QE:317:MET:HA	44:QE:376:CYS:O	2.13	0.48
44:QG:27:GLU:CD	44:QG:243:ARG:HH12	2.16	0.48
44:QG:248:LEU:HB3	44:QG:355:ILE:H	1.78	0.48
44:QG:258:ASN:HD21	44:QG:352:LYS:HB2	1.78	0.48
45:QH:350:LYS:NZ	44:QI:179:THR:HG22	2.28	0.48
44:QI:69:ASP:OD2	44:QI:74:VAL:HG21	2.14	0.48
44:QI:264:ARG:HB3	44:QI:264:ARG:CZ	2.44	0.48
44:QI:291:ILE:CG1	44:QI:373:ARG:HH12	2.26	0.48
45:QJ:97:ALA:HB2	45:QJ:143:THR:HG22	1.95	0.48
45:QJ:240:LEU:O	45:QJ:240:LEU:HD23	2.12	0.48
45:QJ:257:LEU:HA	45:QJ:312:THR:CG2	2.29	0.48
45:QJ:303:ALA:HB2	45:QJ:377:MET:SD	2.54	0.48
45:QL:258:ILE:HG23	45:QL:263:LEU:O	2.13	0.48
44:QM:135:PHE:O	44:QM:136:LEU:HD23	2.12	0.48
44:QM:273:ALA:HB1	44:QM:274:PRO:HA	1.95	0.48
44:QM:325:PRO:O	44:QM:328:VAL:N	2.44	0.48
44:QM:437:ILE:O	44:QM:437:ILE:HG13	2.13	0.48
45:QN:304:ASP:OD2	45:QN:307:HIS:NE2	2.45	0.48
44:RA:310:GLY:N	44:RA:383:ALA:HB2	2.28	0.48
45:RB:60:VAL:CG2	45:RB:86:ARG:HH11	2.27	0.48
45:RB:282:ARG:NH2	45:RB:288:GLU:OE1	2.43	0.48
45:RB:288:GLU:O	45:RB:291:GLN:HG3	2.12	0.48
44:RC:25:CYS:HA	44:RC:30:ILE:HG12	1.92	0.48
44:RC:339:ARG:NE	44:RC:339:ARG:HA	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:86:ARG:CZ	45:RD:87:PRO:HD2	2.43	0.48
44:RE:329:ASN:CB	45:RF:175:VAL:HG11	2.37	0.48
45:RF:332:ASN:O	45:RF:336:LYS:HG2	2.13	0.48
44:RG:409:VAL:HG12	44:RG:409:VAL:O	2.14	0.48
44:RI:11:GLN:HB3	46:RI:501:GTP:O1B	2.13	0.48
44:RI:51:THR:HG21	44:RI:243:ARG:CB	2.24	0.48
45:RJ:305:PRO:HB3	45:RJ:310:TYR:CE2	2.47	0.48
44:RK:253:THR:O	44:RK:257:THR:HG23	2.13	0.48
44:RK:278:ALA:N	44:RK:369:ALA:HB2	2.28	0.48
45:RL:11:GLN:HB3	48:RL:501:GDP:O3B	2.14	0.48
45:RL:249:ASP:OD1	45:RL:252:LYS:HB2	2.14	0.48
44:RM:15:GLN:OE1	46:RM:501:GTP:N7	2.46	0.48
44:SA:238:LEU:HD21	44:SA:255:PHE:CE2	2.49	0.48
44:SA:372:MET:HG3	44:SA:373:ARG:HG2	1.94	0.48
45:SB:6:HIS:HB3	45:SB:63:ALA:CB	2.44	0.48
45:SB:299:MET:HG3	45:SB:305:PRO:HG3	1.95	0.48
45:SB:398:TYR:O	45:SB:403:MET:HG2	2.12	0.48
45:SD:2:ARG:CZ	45:SD:240:LEU:HG	2.42	0.48
44:SG:326:LYS:HD2	44:SG:327:ASP:N	2.28	0.48
45:SH:406:MET:O	45:SH:409:THR:HB	2.13	0.48
45:SJ:210:ILE:C	45:SJ:214:THR:HG1	2.15	0.48
45:SJ:286:VAL:O	45:SJ:289:LEU:HB2	2.13	0.48
45:SL:151:LEU:HD23	45:SL:155:VAL:HG13	1.95	0.48
44:SM:54:SER:HB3	44:SM:64:ARG:HD2	1.96	0.48
44:SM:82:THR:HA	44:SM:84:ARG:NH1	2.28	0.48
44:SM:207:GLU:O	44:SM:210:TYR:N	2.46	0.48
45:SN:152:ILE:HD12	45:SN:164:MET:CE	2.43	0.48
44:TC:31:GLN:HB3	44:TC:32:PRO:HD2	1.94	0.48
44:TC:235:ILE:O	44:TC:238:LEU:HG	2.13	0.48
44:TC:291:ILE:O	44:TC:294:SER:N	2.46	0.48
44:TC:315:CYS:HA	44:TC:379:SER:CB	2.42	0.48
45:TD:172:SER:OG	45:TD:175:VAL:HG22	2.13	0.48
45:TD:372:THR:HG21	45:TD:426:GLN:CD	2.33	0.48
44:TE:15:GLN:CD	44:TE:18:ASN:HD22	2.16	0.48
44:TE:106:GLY:O	44:TE:148:GLY:HA3	2.13	0.48
44:TG:28:HIS:CE1	44:TG:49:PHE:HA	2.48	0.48
45:TH:161:ASP:OD1	45:TH:162:ARG:HG2	2.12	0.48
45:TJ:257:LEU:HB3	45:TJ:266:PHE:CZ	2.48	0.48
44:TK:75:ILE:HA	44:TK:78:VAL:CG2	2.43	0.48
45:TL:335:ASN:C	45:TL:338:SER:H	2.16	0.48
44:TM:11:GLN:CB	46:TM:501:GTP:PB	2.98	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:100:ASN:HD22	45:TN:397:TRP:HE3	1.59	0.48
45:TN:299:MET:HE3	45:TN:305:PRO:HD3	1.94	0.48
44:UA:209:ILE:CG2	44:UA:227:LEU:HD12	2.38	0.48
44:UC:270:SER:C	44:UC:302:MET:HE1	2.33	0.48
44:UC:301:MET:HE1	44:UC:307:PRO:CD	2.43	0.48
44:UC:428:LEU:HG	44:UC:432:TYR:HE2	1.78	0.48
45:UD:247:ASN:OD1	44:UE:11:GLN:NE2	2.43	0.48
45:UD:287:PRO:HA	45:UD:329:GLN:OE1	2.12	0.48
44:UE:123:ARG:O	44:UE:127:ASP:N	2.47	0.48
44:UE:336:LYS:HD3	44:UE:343:PHE:HE2	1.78	0.48
45:UF:332:ASN:HA	45:UF:336:LYS:HZ1	1.78	0.48
44:UG:4:VAL:CG1	44:UG:52:PHE:HE1	2.25	0.48
44:UG:394:LYS:O	44:UG:398:MET:HG2	2.13	0.48
44:UI:230:LEU:O	44:UI:234:VAL:HG23	2.12	0.48
45:UJ:350:LYS:NZ	45:UJ:351:SER:O	2.45	0.48
44:UK:266:HIS:ND1	44:UK:266:HIS:O	2.47	0.48
44:UK:326:LYS:HZ3	45:UL:219:THR:HA	1.78	0.48
44:UK:326:LYS:CE	45:UL:220:PRO:HD2	2.34	0.48
45:UL:99:ASN:CA	45:UL:142:GLY:HA3	2.42	0.48
44:UM:121:ARG:NE	44:UM:121:ARG:HA	2.28	0.48
44:UM:275:ILE:CG2	44:UM:368:LEU:HD11	2.32	0.48
45:UN:175:VAL:O	45:UN:175:VAL:HG23	2.14	0.48
45:UN:212:PHE:O	45:UN:216:LYS:HA	2.12	0.48
44:VA:212:ILE:CG2	44:VA:275:ILE:HD12	2.43	0.48
44:VA:221:ARG:NH2	45:VB:322:SER:O	2.47	0.48
44:VC:119:LEU:CA	44:VC:122:ILE:HG12	2.39	0.48
44:VC:154:LEU:CD1	44:VC:194:LEU:HB3	2.43	0.48
44:VC:294:SER:HA	44:VC:297:GLU:CD	2.33	0.48
45:VD:186:THR:HG23	45:VD:187:LEU:H	1.78	0.48
45:VD:341:PHE:HB3	45:VD:348:ASN:ND2	2.27	0.48
44:VE:99:ALA:CB	44:VE:145:THR:HB	2.43	0.48
45:VF:185:ALA:O	45:VF:188:SER:OG	2.16	0.48
45:VF:207:LEU:HD23	45:VF:300:MET:HE2	1.94	0.48
44:VG:1:MET:HE2	45:VJ:94:GLN:HB3	1.95	0.48
44:VG:135:PHE:CE2	44:VG:157:LEU:HD13	2.48	0.48
45:VH:12:CYS:HA	48:VH:501:GDP:C8	2.49	0.48
44:VI:22:GLU:HG3	44:VI:83:TYR:OH	2.12	0.48
44:VI:241:SER:OG	44:VI:250:VAL:O	2.16	0.48
45:VL:7:ILE:HG21	45:VL:151:LEU:HD23	1.96	0.48
45:VL:116:VAL:O	45:VL:120:VAL:N	2.24	0.48
45:VL:166:THR:OG1	45:VL:198:GLU:O	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VM:328:VAL:O	44:VM:332:ILE:HG12	2.13	0.48
44:WA:51:THR:CG2	44:WA:243:ARG:HD3	2.37	0.48
44:WA:241:SER:OG	44:WA:250:VAL:O	2.26	0.48
45:WB:256:ASN:O	45:WB:257:LEU:HD12	2.13	0.48
44:WC:71:GLU:OE2	44:WC:73:THR:OG1	2.30	0.48
45:WD:86:ARG:O	45:WD:89:ASN:HB2	2.13	0.48
44:WE:296:PHE:CD1	44:WE:377:MET:HE1	2.47	0.48
44:WE:310:GLY:C	44:WE:311:LYS:HD3	2.34	0.48
45:WF:24:ILE:CG2	45:WF:51:TYR:HE2	2.27	0.48
45:WF:257:LEU:C	45:WF:258:ILE:HD12	2.33	0.48
44:WG:287:SER:HA	44:WG:373:ARG:HH21	1.76	0.48
45:WH:53:GLU:OE2	45:WH:57:GLY:HA2	2.13	0.48
45:WH:215:LEU:HA	45:WH:275:SER:HA	1.95	0.48
44:WK:183:GLU:HG2	44:WK:184:PRO:HD3	1.95	0.48
44:WK:288:VAL:HA	44:WK:291:ILE:HG12	1.94	0.48
45:WL:170:VAL:O	45:WL:170:VAL:HG23	2.13	0.48
45:WL:193:VAL:HG23	45:WL:264:HIS:NE2	2.27	0.48
45:WL:217:LEU:HD11	45:WL:220:PRO:CA	2.43	0.48
45:WL:314:SER:OG	45:WL:368:VAL:HB	2.14	0.48
44:WM:26:LEU:HD21	44:WM:364:PRO:HD2	1.95	0.48
44:WM:385:ALA:O	44:WM:389:SER:OG	2.27	0.48
1:6H:279:LEU:HD11	44:FE:322:ASP:HB3	1.95	0.48
3:0B:202:GLY:HA3	44:KI:372:MET:HE2	1.94	0.48
7:0F:51:THR:HG22	44:EE:219:ILE:HD11	1.95	0.48
10:0N:265:ASN:OD1	44:KK:42:ILE:HD13	2.13	0.48
12:0S:12:VAL:HG13	45:WB:94:GLN:HE21	1.71	0.48
19:1I:169:GLN:NE2	45:KH:18:ALA:HB3	2.28	0.48
22:1L:45:ARG:HB3	45:BJ:362:LYS:HE3	1.90	0.48
10:1N:248:ASN:HB2	45:KJ:74:ASP:OD1	2.13	0.48
25:1P:337:GLN:HE22	44:TC:29:GLY:H	1.61	0.48
27:1W:59:SER:CB	45:LH:361:LEU:HD13	2.43	0.48
24:2O:264:ILE:HD11	44:VG:282:TYR:CD2	2.23	0.48
27:2W:240:PHE:CZ	35:6R:15:HIS:CD2	2.96	0.48
2:3A:29:TRP:CE2	45:MN:362:LYS:HG2	2.47	0.48
31:3H:203:LYS:NZ	44:AG:225:THR:HG21	2.27	0.48
32:3I:287:ARG:NH1	44:FG:41:THR:HG22	2.21	0.48
34:4F:5:VAL:HG23	44:GI:84:ARG:HH12	1.79	0.48
34:4F:71:TYR:CE1	44:II:32:PRO:HD3	2.47	0.48
37:5B:57:PRO:HB3	45:KF:390:ARG:HG2	1.95	0.48
37:5B:81:HIS:HE1	44:NE:81:GLY:HA2	1.77	0.48
37:5D:28:SER:N	45:KN:395:LEU:HB3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:105:HIS:HB3	44:NM:218:ASP:OD2	2.13	0.48
38:5E:197:LEU:HD23	44:LC:393:HIS:HB2	1.95	0.48
38:5F:140:ASN:C	45:OH:279:GLN:HE22	2.16	0.48
38:5F:173:LYS:HB2	45:KH:194:GLU:O	2.13	0.48
39:5J:22:TRP:CZ2	45:NF:343:GLU:HB3	2.49	0.48
36:5S:80:PHE:HB3	36:5S:86:LYS:H	1.79	0.48
41:6G:276:PRO:CG	41:6G:284:LYS:HD3	2.44	0.48
41:6G:281:THR:HG23	41:6G:284:LYS:H	1.78	0.48
35:6R:538:PHE:CG	35:6R:578:TYR:CG	3.01	0.48
35:7R:10:PRO:HG3	45:LB:359:LYS:HZ1	1.77	0.48
35:7R:12:LEU:HB3	35:7R:13:PRO:CD	2.44	0.48
35:7R:83:PRO:HB3	44:MA:58:ALA:HB1	1.94	0.48
35:7R:323:LEU:HD21	45:CB:276:ARG:O	2.13	0.48
35:7R:331:PRO:HB2	35:7R:364:MET:HE3	1.94	0.48
35:7R:428:GLY:CA	35:7R:506:LEU:HD23	2.43	0.48
44:AA:19:ALA:HA	44:AA:22:GLU:OE1	2.13	0.48
45:AB:299:MET:HE1	45:AB:367:PHE:HD2	1.79	0.48
44:AC:254:GLU:CG	45:AF:98:GLY:HA2	2.43	0.48
45:AD:131:GLN:O	45:AD:163:ILE:HG22	2.13	0.48
44:AE:209:ILE:CG2	44:AE:227:LEU:HD23	2.43	0.48
45:AF:392:LYS:HA	45:AF:392:LYS:HE2	1.94	0.48
45:AF:416:ASN:O	45:AF:419:VAL:HB	2.14	0.48
45:AH:1:MET:SD	45:AH:2:ARG:HG2	2.54	0.48
45:AH:43:GLN:C	45:AH:44:LEU:HD12	2.33	0.48
45:AH:87:PRO:HA	45:AH:90:PHE:HD1	1.78	0.48
44:AM:176:GLN:HG3	45:AN:331:LEU:HD11	1.94	0.48
44:AM:407:TRP:HE3	45:AN:255:VAL:HG22	1.78	0.48
45:AN:112:LEU:O	45:AN:112:LEU:HD23	2.13	0.48
44:BA:53:PHE:HB3	44:BA:61:HIS:HB3	1.95	0.48
44:BC:254:GLU:CG	45:BF:98:GLY:HA2	2.44	0.48
44:BC:296:PHE:CE1	44:BC:377:MET:HE1	2.47	0.48
45:BD:189:VAL:O	45:BD:193:VAL:HG13	2.14	0.48
44:BE:141:VAL:HG23	44:BE:190:SER:CB	2.40	0.48
44:BE:326:LYS:HZ3	45:BH:208:TYR:HD2	1.60	0.48
45:BF:67:ASP:OD1	45:BF:68:LEU:N	2.47	0.48
44:BG:222:PRO:HG3	45:BH:324:LYS:HD3	1.95	0.48
45:BH:68:LEU:HG	45:BH:147:MET:SD	2.53	0.48
45:BH:309:ARG:HG2	45:BH:340:TYR:HA	1.94	0.48
45:BJ:403:MET:HE3	45:BJ:407:GLU:HB2	1.96	0.48
44:BM:118:CYS:SG	44:BM:153:LEU:HD22	2.53	0.48
44:BM:195:LEU:O	44:BM:266:HIS:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:19:LYS:O	45:BN:23:VAL:HG23	2.14	0.48
45:BN:130:LEU:HD21	45:BN:133:PHE:HE1	1.78	0.48
45:BN:257:LEU:HD11	45:BN:314:SER:HB2	1.95	0.48
44:CA:23:LEU:HD11	44:CA:361:THR:CG2	2.43	0.48
44:CA:317:MET:HE1	44:CA:377:MET:HA	1.95	0.48
44:CA:417:GLU:O	44:CA:420:GLU:HG2	2.14	0.48
45:CB:14:ASN:O	45:CB:18:ALA:N	2.25	0.48
45:CB:137:HIS:CB	48:CB:501:GDP:O1B	2.54	0.48
45:CB:263:LEU:HG	45:CB:422:TYR:CD1	2.48	0.48
44:CC:156:ARG:HB3	44:CC:160:ASP:OD2	2.13	0.48
45:CD:208:TYR:CZ	45:CD:225:LEU:HD11	2.49	0.48
45:CF:285:THR:HB	45:CF:287:PRO:HD2	1.94	0.48
45:CH:163:ILE:HG21	45:CH:251:ARG:HD3	1.95	0.48
45:CH:375:GLN:O	45:CH:379:LYS:HG3	2.13	0.48
44:CI:181:VAL:HG22	44:CI:181:VAL:O	2.13	0.48
45:CJ:42:LEU:CD2	45:CJ:356:ILE:HD11	2.44	0.48
45:CJ:254:ALA:CB	44:CK:407:TRP:HH2	2.25	0.48
45:CJ:319:GLY:HA2	45:CJ:357:PRO:HD3	1.95	0.48
44:CK:260:VAL:O	44:CK:260:VAL:HG23	2.12	0.48
45:CL:163:ILE:HD13	45:CL:251:ARG:HG2	1.95	0.48
44:CM:287:SER:O	44:CM:290:GLU:HG2	2.13	0.48
44:CM:328:VAL:O	44:CM:332:ILE:HG12	2.12	0.48
45:CN:86:ARG:HH21	45:CN:89:ASN:CG	2.17	0.48
45:CN:222:TYR:HB3	48:CN:501:GDP:O6	2.13	0.48
45:CN:262:ARG:C	45:CN:263:LEU:HD12	2.33	0.48
44:DA:214:ARG:HH12	44:DA:218:ASP:C	2.16	0.48
44:DA:263:PRO:HD3	45:DB:396:HIS:CE1	2.49	0.48
45:DB:296:ALA:CB	45:DB:305:PRO:HG2	2.44	0.48
44:DE:105:ARG:HG2	44:DE:411:GLU:CD	2.34	0.48
44:DE:296:PHE:CD2	44:DE:335:ILE:HG21	2.48	0.48
45:DF:139:LEU:HD22	45:DF:170:VAL:CG2	2.43	0.48
44:DG:250:VAL:HG22	44:DG:352:LYS:HE3	1.95	0.48
44:DG:417:GLU:O	44:DG:420:GLU:HG2	2.13	0.48
45:DH:67:ASP:HB3	45:DH:73:MET:CG	2.43	0.48
44:DI:5:ILE:HB	44:DI:135:PHE:CE1	2.49	0.48
44:DK:76:ASP:O	44:DK:80:THR:HG23	2.14	0.48
44:DK:360:PRO:HG3	44:DK:374:ALA:HB2	1.95	0.48
44:DM:269:LEU:O	44:DM:379:SER:N	2.47	0.48
44:EA:69:ASP:OD2	44:EA:74:VAL:HG21	2.13	0.48
44:EA:183:GLU:HG2	44:EA:184:PRO:CD	2.43	0.48
45:EB:91:VAL:HG11	45:EB:116:VAL:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:99:ASN:HB3	45:EB:180:VAL:HG11	1.95	0.48
45:EB:133:PHE:HB2	45:EB:164:MET:CE	2.43	0.48
45:EB:149:THR:OG1	45:EB:191:GLN:HG2	2.13	0.48
44:EC:22:GLU:HA	44:EC:83:TYR:OH	2.13	0.48
44:EE:205:ASP:CG	44:EE:303:ALA:HA	2.32	0.48
44:EE:346:TRP:CD1	45:EF:391:ARG:HG3	2.49	0.48
45:EF:130:LEU:HD21	45:EF:133:PHE:CE1	2.46	0.48
45:EF:166:THR:O	45:EF:199:CYS:HA	2.13	0.48
44:EG:307:PRO:HA	44:EG:383:ALA:CB	2.44	0.48
44:EK:332:ILE:HG22	44:EK:336:LYS:NZ	2.28	0.48
45:EL:44:LEU:HD22	45:EL:47:ILE:HG21	1.94	0.48
45:EL:304:ASP:OD1	45:EL:305:PRO:HD2	2.13	0.48
45:EL:404:ASP:HB2	45:EL:406:MET:HE1	1.96	0.48
44:EM:220:GLU:C	44:EM:221:ARG:HB3	2.34	0.48
44:EM:259:LEU:HD11	44:EM:316:SER:CB	2.43	0.48
44:EM:272:TYR:CE2	44:EM:275:ILE:HD11	2.48	0.48
44:EM:306:ASP:HB3	44:EM:309:HIS:CG	2.49	0.48
44:EM:319:TYR:N	44:EM:354:GLY:O	2.45	0.48
44:EM:416:GLY:O	44:EM:419:SER:N	2.46	0.48
45:EN:163:ILE:HD13	45:EN:251:ARG:CB	2.44	0.48
45:EN:175:VAL:O	45:EN:175:VAL:HG23	2.13	0.48
44:FA:35:GLN:NE2	44:FA:36:MET:O	2.46	0.48
44:FA:185:TYR:OH	44:FA:398:MET:HB3	2.12	0.48
45:FB:103:LYS:HB2	45:FB:401:GLU:OE1	2.12	0.48
45:FB:207:LEU:HB2	45:FB:225:LEU:HD13	1.95	0.48
45:FB:231:ALA:HB1	45:FB:270:PHE:CZ	2.48	0.48
45:FB:287:PRO:CA	45:FB:290:THR:HG22	2.43	0.48
44:FC:229:ARG:HG2	44:FC:229:ARG:HH11	1.78	0.48
44:FC:273:ALA:O	44:FC:375:VAL:HG12	2.13	0.48
45:FD:148:GLY:O	45:FD:152:ILE:HG12	2.12	0.48
45:FD:334:GLN:HG3	45:FD:348:ASN:OD1	2.12	0.48
44:FE:3:GLU:HG3	44:FE:129:CYS:SG	2.54	0.48
44:FE:301:MET:HE2	44:FE:301:MET:CA	2.43	0.48
45:FF:270:PHE:CE2	45:FF:273:LEU:HD21	2.48	0.48
45:FF:314:SER:OG	45:FF:350:LYS:HB3	2.12	0.48
44:FG:425:LEU:O	44:FG:429:GLU:HG3	2.12	0.48
45:FH:62:ARG:HG3	45:FH:62:ARG:O	2.14	0.48
45:FH:86:ARG:HB3	45:FH:89:ASN:CG	2.32	0.48
45:FH:328:GLU:O	45:FH:332:ASN:N	2.31	0.48
44:FI:69:ASP:OD2	44:FI:74:VAL:HG21	2.13	0.48
44:FI:109:THR:HG23	44:FI:110:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:119:LEU:HA	44:FI:122:ILE:CG2	2.42	0.48
44:FI:270:SER:HB2	44:FI:378:ILE:HD13	1.96	0.48
44:FI:289:ALA:O	44:FI:292:THR:HG22	2.13	0.48
44:FK:241:SER:HA	44:FK:356:ASN:ND2	2.28	0.48
45:FL:103:LYS:O	45:FL:108:GLU:HB2	2.13	0.48
45:FL:180:VAL:HG22	45:FL:183:TYR:HB2	1.93	0.48
45:FL:208:TYR:CE1	45:FL:225:LEU:HD11	2.49	0.48
44:FM:223:THR:HG23	44:FM:225:THR:OG1	2.13	0.48
44:GA:256:GLN:NE2	45:GD:397:TRP:HH2	2.12	0.48
45:GB:3:GLU:HB3	45:GB:49:VAL:HA	1.95	0.48
45:GB:221:THR:O	45:GB:224:ASP:HB2	2.13	0.48
44:GC:72:PRO:HB2	44:GC:76:ASP:OD2	2.13	0.48
44:GC:230:LEU:CD1	44:GC:275:ILE:HD12	2.44	0.48
45:GD:180:VAL:HG23	45:GD:183:TYR:HD2	1.79	0.48
44:GE:35:GLN:OE1	44:GE:60:LYS:HB3	2.12	0.48
44:GE:250:VAL:CG2	44:GE:255:PHE:HE1	2.26	0.48
44:GG:107:HIS:ND1	44:GG:107:HIS:O	2.47	0.48
44:GG:287:SER:O	44:GG:290:GLU:HG2	2.13	0.48
45:GJ:266:PHE:CD1	45:GJ:370:ASN:HB2	2.48	0.48
44:GK:106:GLY:O	44:GK:111:GLY:HA3	2.13	0.48
44:GK:241:SER:HB2	44:GK:249:ASN:OD1	2.14	0.48
45:GL:334:GLN:HE22	45:GL:341:PHE:CB	2.26	0.48
44:GM:2:ARG:HE	44:GM:242:LEU:C	2.14	0.48
45:HB:134:GLN:HA	45:HB:165:GLU:HB2	1.94	0.48
44:HC:112:LYS:CE	44:HC:113:GLU:HG2	2.43	0.48
44:HC:112:LYS:HD2	44:HC:113:GLU:N	2.28	0.48
44:HC:168:GLY:O	44:HC:201:ALA:HA	2.13	0.48
44:HE:272:TYR:CD2	44:HE:275:ILE:HD11	2.48	0.48
44:HG:101:ASN:HD22	45:HH:252:LYS:HG3	1.77	0.48
44:HG:206:ASN:O	44:HG:209:ILE:N	2.47	0.48
44:HG:250:VAL:HB	44:HG:318:MET:CE	2.43	0.48
44:HG:308:ARG:NH1	44:HG:340:THR:O	2.46	0.48
45:HH:388:MET:HA	45:HH:388:MET:HE3	1.95	0.48
44:HI:10:GLY:O	44:HI:14:ILE:HB	2.13	0.48
44:HI:11:GLN:CG	46:HI:501:GTP:O2B	2.61	0.48
45:HJ:113:ILE:O	45:HJ:116:VAL:HG12	2.12	0.48
44:HK:323:VAL:O	44:HK:323:VAL:HG13	2.13	0.48
44:HM:5:ILE:HD12	44:HM:132:LEU:CD1	2.43	0.48
45:HN:139:LEU:HD23	45:HN:145:SER:HB2	1.95	0.48
45:HN:192:LEU:CG	45:HN:196:ALA:HB2	2.44	0.48
45:HN:287:PRO:HG3	45:HN:329:GLN:NE2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:352:LYS:CD	45:ID:178:THR:HG23	2.41	0.48
45:IB:311:LEU:H	45:IB:371:SER:HA	1.77	0.48
44:IC:200:VAL:HG13	44:IC:268:MET:CE	2.44	0.48
44:IC:221:ARG:CD	45:ID:325:GLU:HG2	2.44	0.48
45:ID:316:LEU:HG	45:ID:352:SER:CB	2.43	0.48
45:ID:318:ARG:NE	45:ID:358:PRO:HG3	2.28	0.48
45:IF:263:LEU:HG	45:IF:422:TYR:CD1	2.48	0.48
44:IG:23:LEU:HD11	44:IG:233:GLN:OE1	2.13	0.48
44:IG:195:LEU:HA	44:IG:266:HIS:HE2	1.77	0.48
44:IG:268:MET:HB2	44:IG:379:SER:O	2.12	0.48
45:IH:100:ASN:OD1	45:IH:102:ALA:HB3	2.13	0.48
44:II:437:ILE:HG13	44:II:437:ILE:O	2.13	0.48
45:IJ:23:VAL:HG21	45:IJ:230:SER:HB2	1.94	0.48
45:IJ:272:PRO:HB3	45:IJ:289:LEU:CD2	2.42	0.48
45:IL:313:ALA:HB3	45:IL:349:ILE:CD1	2.43	0.48
44:IM:288:VAL:HA	44:IM:291:ILE:CD1	2.43	0.48
45:IN:86:ARG:HG3	45:IN:88:ASP:H	1.79	0.48
44:JA:88:HIS:ND1	44:JA:89:PRO:HD2	2.29	0.48
44:JA:178:SER:HB2	44:JA:183:GLU:OE1	2.11	0.48
44:JA:386:GLU:HA	44:JA:389:SER:OG	2.12	0.48
45:JB:66:MET:CB	45:JB:91:VAL:HG23	2.43	0.48
45:JD:54:ALA:CB	45:KD:283:ALA:HB2	2.43	0.48
45:JD:264:HIS:O	45:JD:264:HIS:ND1	2.42	0.48
44:JE:88:HIS:HB3	44:JE:91:GLN:CG	2.38	0.48
44:JG:20:CYS:SG	44:JG:21:TRP:N	2.86	0.48
44:JG:67:PHE:C	44:JG:68:LEU:HD12	2.33	0.48
45:JH:101:TRP:CH2	45:JH:187:LEU:HB3	2.48	0.48
45:JJ:99:ASN:O	45:JJ:180:VAL:HG11	2.14	0.48
44:JK:7:ILE:HD13	44:JK:66:VAL:HG12	1.96	0.48
45:JL:345:ILE:O	45:JL:345:ILE:HG23	2.12	0.48
44:JM:175:PRO:HG3	44:JM:304:LYS:CB	2.43	0.48
45:JN:12:CYS:SG	45:JN:169:VAL:HG21	2.53	0.48
44:KA:107:HIS:O	44:KA:108:TYR:HD1	1.97	0.48
45:KB:183:TYR:CD2	45:KB:388:MET:HE3	2.48	0.48
44:KE:177:VAL:HG23	45:KF:331:LEU:HD22	1.95	0.48
44:KE:273:ALA:O	44:KE:375:VAL:HG22	2.12	0.48
45:KF:8:GLN:OE1	45:KF:17:GLY:HA3	2.13	0.48
45:KF:8:GLN:NE2	45:KF:17:GLY:HA3	2.29	0.48
45:KF:352:SER:O	45:KF:353:ILE:HD13	2.13	0.48
44:KG:265:ILE:HD11	44:KG:313:MET:CE	2.44	0.48
44:KG:341:ILE:HG22	44:KG:342:GLN:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KH:121:ARG:HH21	45:KH:158:GLU:CD	2.17	0.48
45:KJ:99:ASN:HB3	45:KJ:180:VAL:HG11	1.95	0.48
45:KJ:152:ILE:HG12	45:KJ:164:MET:CE	2.43	0.48
45:KJ:182:PRO:HG2	45:KJ:388:MET:CE	2.43	0.48
45:KJ:325:GLU:CA	45:KJ:328:GLU:HG2	2.43	0.48
44:KK:258:ASN:ND2	45:KN:178:THR:HG23	2.25	0.48
44:KK:288:VAL:HA	44:KK:291:ILE:CG1	2.44	0.48
44:KM:121:ARG:NH1	44:KM:124:LYS:HD2	2.28	0.48
44:KM:268:MET:HB3	44:KM:379:SER:O	2.14	0.48
44:KM:413:MET:HE3	44:KM:413:MET:HB2	1.66	0.48
45:KN:4:ILE:HD11	45:KN:50:TYR:OH	2.12	0.48
45:KN:68:LEU:O	45:KN:96:GLY:HA2	2.14	0.48
44:LA:363:VAL:HG22	44:LA:364:PRO:CD	2.43	0.48
45:LB:267:MET:CE	45:LB:371:SER:HB3	2.42	0.48
45:LD:231:ALA:HB1	45:LD:270:PHE:CE1	2.48	0.48
44:LE:217:LEU:HD23	44:LE:367:ASP:OD2	2.13	0.48
44:LE:261:PRO:HA	45:LH:394:PHE:CD1	2.47	0.48
45:LF:10:GLY:HA2	48:LF:501:GDP:O1B	2.12	0.48
44:LG:103:PHE:CZ	44:LG:189:LEU:HD22	2.49	0.48
45:LH:7:ILE:CG1	45:LH:135:ILE:HD12	2.43	0.48
44:LI:138:PHE:HE2	44:LI:235:ILE:HD11	1.78	0.48
44:LK:383:ALA:O	44:LK:386:GLU:HG2	2.14	0.48
44:LM:60:LYS:HD3	44:MM:283:HIS:CG	2.49	0.48
44:MA:404:PHE:HE1	45:MB:259:PRO:HA	1.78	0.48
45:MB:20:PHE:CZ	45:MB:24:ILE:HG13	2.48	0.48
44:MC:91:GLN:HE22	44:MC:125:LEU:HD21	1.78	0.48
44:MC:127:ASP:OD1	44:MC:128:ASN:N	2.46	0.48
44:MC:261:PRO:HA	45:MF:394:PHE:CE1	2.48	0.48
44:ME:156:ARG:HG2	44:ME:156:ARG:NH1	2.27	0.48
44:ME:270:SER:O	44:ME:302:MET:HB2	2.14	0.48
45:MF:42:LEU:HD12	45:MF:243:PRO:HG2	1.94	0.48
45:MF:233:MET:O	45:MF:236:VAL:HG12	2.12	0.48
44:MG:349:THR:HG23	45:MJ:179:VAL:HA	1.94	0.48
45:MH:67:ASP:HB3	45:MH:72:THR:HG21	1.95	0.48
45:MH:100:ASN:ND2	45:MH:102:ALA:HB3	2.28	0.48
45:MH:143:THR:HG22	48:MH:501:GDP:O2B	2.13	0.48
44:MI:221:ARG:HH22	45:MJ:325:GLU:HB3	1.78	0.48
44:MI:424:ASP:O	44:MI:428:LEU:N	2.37	0.48
44:MK:183:GLU:HG2	44:MK:184:PRO:N	2.28	0.48
45:ML:32:PRO:HB3	45:ML:81:PHE:HD1	1.79	0.48
45:ML:33:THR:O	45:ML:58:ARG:NE	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:296:ALA:HB2	45:ML:306:ARG:CZ	2.44	0.48
44:MM:27:GLU:CD	44:MM:243:ARG:HH12	2.16	0.48
45:NB:3:GLU:O	45:NB:131:GLN:N	2.42	0.48
45:NB:260:PHE:CB	45:NB:263:LEU:HD13	2.30	0.48
44:NC:210:TYR:CE1	44:NC:227:LEU:HD21	2.48	0.48
45:ND:7:ILE:HG21	45:ND:151:LEU:HD21	1.94	0.48
45:ND:231:ALA:HB1	45:ND:270:PHE:CZ	2.49	0.48
45:ND:286:VAL:HG11	45:ND:325:GLU:HG3	1.95	0.48
44:NG:74:VAL:CG2	44:NG:75:ILE:HD12	2.43	0.48
45:NH:58:ARG:NH1	45:OH:280:GLN:HE21	2.09	0.48
44:NI:181:VAL:HG22	45:NJ:345:ILE:HD11	1.94	0.48
44:NI:261:PRO:HG2	44:NI:313:MET:CG	2.40	0.48
44:NI:328:VAL:HG11	44:NI:353:VAL:HG21	1.96	0.48
45:NJ:69:GLU:OE1	45:NJ:71:GLY:N	2.43	0.48
44:NM:109:THR:CG2	44:NM:411:GLU:HB3	2.43	0.48
44:OA:4:VAL:HG21	44:OA:252:ILE:HD13	1.94	0.48
44:OA:152:LEU:O	44:OA:156:ARG:HG2	2.13	0.48
45:OB:24:ILE:HG22	45:OB:51:TYR:OH	2.13	0.48
45:OB:344:TRP:HZ2	45:OB:425:TYR:HB3	1.78	0.48
44:OC:88:HIS:HB3	44:OC:91:GLN:OE1	2.11	0.48
44:OC:224:TYR:HA	44:OC:227:LEU:CD1	2.43	0.48
44:OC:259:LEU:HD21	44:OC:316:SER:HB3	1.94	0.48
44:OC:430:LYS:O	44:OC:433:GLU:HG2	2.14	0.48
45:OD:389:PHE:O	45:OD:392:LYS:HD2	2.13	0.48
44:OE:141:VAL:CG2	44:OE:187:SER:HA	2.38	0.48
44:OE:313:MET:HA	44:OE:344:VAL:CG1	2.42	0.48
45:OF:4:ILE:HG22	45:OF:132:GLY:O	2.13	0.48
44:OG:306:ASP:HB3	44:OG:309:HIS:ND1	2.29	0.48
44:OG:384:ILE:O	44:OG:387:VAL:HG12	2.14	0.48
45:OH:5:VAL:O	45:OH:134:GLN:HG2	2.13	0.48
45:OH:7:ILE:CG2	45:OH:135:ILE:HD13	2.43	0.48
45:OH:177:ASP:HB3	48:OH:501:GDP:H3'	1.95	0.48
45:OH:285:THR:HG23	45:OH:287:PRO:CD	2.34	0.48
44:OI:3:GLU:OE2	44:OI:130:THR:N	2.46	0.48
44:OI:242:LEU:HD11	44:OI:252:ILE:HG23	1.93	0.48
44:OI:270:SER:O	44:OI:302:MET:HB2	2.14	0.48
44:OI:270:SER:CB	44:OI:378:ILE:HD13	2.43	0.48
45:OJ:240:LEU:HD12	45:OJ:249:ASP:HA	1.95	0.48
44:OK:79:ARG:CD	44:OK:92:LEU:HD13	2.44	0.48
44:OK:93:ILE:CG2	44:OK:117:LEU:HD23	2.43	0.48
44:OK:414:GLU:CD	44:OK:416:GLY:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OM:3:GLU:HG3	44:OM:129:CYS:SG	2.53	0.48
44:OM:171:ILE:HG12	44:OM:204:LEU:HB2	1.95	0.48
44:OM:318:MET:O	44:OM:375:VAL:HG23	2.14	0.48
44:PC:221:ARG:NH1	45:PD:325:GLU:OE1	2.46	0.48
44:PE:246:GLY:HA2	44:PE:357:TYR:CE2	2.48	0.48
45:PF:124:ALA:HB1	45:PF:130:LEU:HD22	1.96	0.48
45:PF:391:ARG:HG3	45:PF:391:ARG:HH11	1.78	0.48
44:PG:1:MET:O	44:PG:1:MET:HG2	2.13	0.48
44:PG:68:LEU:CD1	44:PG:93:ILE:HD13	2.44	0.48
44:PG:324:VAL:O	44:PG:327:ASP:HB2	2.13	0.48
45:PH:141:GLY:HA3	48:PH:501:GDP:PA	2.53	0.48
45:PH:238:CYS:O	45:PH:242:PHE:HD2	1.94	0.48
45:PJ:251:ARG:O	45:PJ:255:VAL:HG23	2.12	0.48
44:PK:115:VAL:CG2	44:PK:152:LEU:HD23	2.43	0.48
44:PK:248:LEU:HD21	44:PK:353:VAL:O	2.13	0.48
44:PK:263:PRO:HD3	45:PN:396:HIS:ND1	2.28	0.48
45:PL:174:LYS:CD	45:PL:175:VAL:HG13	2.39	0.48
44:PM:255:PHE:O	44:PM:259:LEU:N	2.37	0.48
44:PM:292:THR:HG21	44:PM:331:SER:CB	2.24	0.48
44:PM:297:GLU:HB2	44:PM:300:ASN:ND2	2.28	0.48
45:PN:330:MET:HG3	45:PN:351:SER:OG	2.14	0.48
45:QB:9:GLY:HA2	45:QB:14:ASN:ND2	2.29	0.48
45:QB:315:ALA:O	45:QB:351:SER:HA	2.12	0.48
44:QC:26:LEU:HD21	44:QC:364:PRO:CD	2.43	0.48
44:QC:206:ASN:C	44:QC:209:ILE:HG12	2.32	0.48
44:QE:212:ILE:HG21	44:QE:275:ILE:HD13	1.95	0.48
44:QG:191:THR:HA	44:QG:194:LEU:CG	2.43	0.48
45:QH:21:TRP:CZ3	45:QH:61:PRO:HB3	2.49	0.48
45:QJ:130:LEU:HD21	45:QJ:133:PHE:CE1	2.48	0.48
45:QJ:256:ASN:HA	44:QK:181:VAL:CG2	2.43	0.48
45:QL:209:ASP:O	45:QL:213:ARG:HB2	2.14	0.48
44:QM:191:THR:HA	44:QM:194:LEU:CD2	2.43	0.48
44:QM:269:LEU:HD12	44:QM:303:ALA:HB3	1.95	0.48
45:QN:84:LEU:C	45:QN:86:ARG:HH21	2.17	0.48
44:RA:349:THR:HG23	45:RB:179:VAL:HA	1.95	0.48
44:RC:20:CYS:HB2	44:RC:24:PHE:CE2	2.48	0.48
44:RC:60:LYS:HD3	44:SC:283:HIS:NE2	2.28	0.48
44:RC:265:ILE:HG22	44:RC:380:ASN:HD21	1.79	0.48
44:RC:288:VAL:N	44:RC:373:ARG:HD2	2.29	0.48
45:RD:77:ARG:NH1	45:RD:83:GLN:HA	2.26	0.48
45:RD:101:TRP:CG	45:RD:187:LEU:HD13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:246:LEU:HD11	44:RE:224:TYR:HE2	1.79	0.48
45:RD:377:MET:O	45:RD:381:VAL:HG13	2.13	0.48
44:RE:89:PRO:HG3	44:SE:280:LYS:HG3	1.96	0.48
44:RE:89:PRO:HD3	44:SE:280:LYS:CE	2.44	0.48
44:RE:311:LYS:NZ	44:RE:344:VAL:HG23	2.28	0.48
45:RF:322:SER:H	44:RG:221:ARG:HH21	1.60	0.48
45:RH:65:LEU:HD22	45:RH:90:PHE:CE1	2.48	0.48
45:RH:289:LEU:HD13	45:RH:365:VAL:HG11	1.94	0.48
45:RH:295:ASP:OD1	45:RH:296:ALA:N	2.47	0.48
44:RI:246:GLY:HA2	44:RI:357:TYR:CE2	2.48	0.48
45:RJ:374:ILE:HB	45:RJ:377:MET:CE	2.37	0.48
45:RN:110:ALA:O	45:RN:113:ILE:HG22	2.14	0.48
45:RN:117:LEU:HD23	45:RN:117:LEU:H	1.76	0.48
45:RN:290:THR:HA	45:RN:293:MET:CE	2.43	0.48
44:SA:206:ASN:HB3	44:SA:210:TYR:CZ	2.48	0.48
44:SA:277:SER:O	44:SA:281:ALA:HB2	2.14	0.48
44:SA:352:LYS:HE2	45:SB:99:ASN:OD1	2.14	0.48
45:SB:217:LEU:HD11	45:SB:220:PRO:CG	2.40	0.48
45:SB:232:ALA:O	45:SB:235:GLY:N	2.45	0.48
45:SB:265:PHE:HB2	45:SB:374:ILE:HD13	1.95	0.48
44:SC:272:TYR:CE1	44:SC:374:ALA:HB1	2.48	0.48
44:SC:276:ILE:HD13	44:SC:281:ALA:HA	1.91	0.48
45:SF:259:PRO:HB2	45:SF:260:PHE:CD2	2.49	0.48
44:SG:346:TRP:HD1	45:SH:391:ARG:NH1	2.11	0.48
45:SH:101:TRP:CD1	45:SH:184:ASN:HB2	2.49	0.48
45:SH:177:ASP:OD2	48:SH:501:GDP:O2'	2.27	0.48
45:SH:178:THR:CG2	45:SH:180:VAL:HG12	2.44	0.48
44:SI:88:HIS:NE2	44:TI:284:GLU:OE2	2.47	0.48
44:SI:183:GLU:HG2	44:SI:184:PRO:CD	2.44	0.48
45:SJ:151:LEU:HD23	45:SJ:155:VAL:CG2	2.43	0.48
45:SL:151:LEU:HD23	45:SL:155:VAL:CG1	2.43	0.48
45:SN:116:VAL:O	45:SN:119:VAL:HG12	2.12	0.48
44:TA:84:ARG:CZ	44:TA:85:GLN:HG2	2.43	0.48
44:TA:165:SER:O	44:TA:166:LYS:HG3	2.13	0.48
45:TB:25:SER:HA	45:TB:30:ILE:HB	1.96	0.48
45:TB:28:HIS:O	45:TB:43:GLN:NE2	2.31	0.48
45:TD:350:LYS:NZ	44:TE:180:ALA:HB2	2.27	0.48
44:TE:20:CYS:O	44:TE:24:PHE:HD2	1.95	0.48
44:TE:88:HIS:HB3	44:TE:91:GLN:HG2	1.93	0.48
44:TE:329:ASN:HB3	45:TF:175:VAL:CG1	2.42	0.48
45:TF:286:VAL:HG13	45:TF:321:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:384:GLN:HA	45:TF:387:ALA:CB	2.40	0.48
44:TG:291:ILE:HG13	44:TG:292:THR:N	2.28	0.48
45:TH:20:PHE:CE1	45:TH:24:ILE:HD11	2.48	0.48
45:TH:130:LEU:O	45:TH:162:ARG:HD3	2.13	0.48
44:TI:135:PHE:HB2	44:TI:166:LYS:CG	2.33	0.48
44:TI:287:SER:O	44:TI:291:ILE:HG23	2.12	0.48
45:TJ:7:ILE:HD13	45:TJ:120:VAL:HG22	1.94	0.48
45:TJ:207:LEU:CD1	45:TJ:225:LEU:HB3	2.41	0.48
45:TJ:358:PRO:HG2	45:TJ:364:ALA:HB2	1.95	0.48
44:TK:191:THR:HG23	44:TK:194:LEU:HD11	1.94	0.48
45:TL:7:ILE:HB	45:TL:135:ILE:HD13	1.92	0.48
45:TL:17:GLY:HA2	45:TL:20:PHE:CB	2.44	0.48
45:TL:235:GLY:HA3	45:TL:366:THR:OG1	2.12	0.48
44:TM:203:MET:CE	44:TM:267:PHE:HD2	2.26	0.48
45:TN:181:GLU:HA	45:TN:184:ASN:OD1	2.14	0.48
45:TN:274:THR:HG23	45:TN:279:GLN:HB2	1.95	0.48
45:UB:25:SER:HB2	45:UB:81:PHE:CE2	2.35	0.48
45:UD:102:ALA:HB2	45:UD:403:MET:HE1	1.95	0.48
45:UD:203:ASP:O	45:UD:207:LEU:HG	2.12	0.48
44:UE:235:ILE:O	44:UE:239:THR:HG23	2.13	0.48
44:UE:268:MET:HB2	44:UE:379:SER:C	2.33	0.48
45:UF:2:ARG:CZ	45:UF:240:LEU:HG	2.44	0.48
44:UG:91:GLN:OE1	44:UG:91:GLN:N	2.46	0.48
44:UG:195:LEU:HD21	44:UG:428:LEU:HD11	1.94	0.48
44:UG:285:GLN:HE21	44:UG:287:SER:HB2	1.79	0.48
44:UG:325:PRO:HB3	44:UG:355:ILE:HD11	1.94	0.48
45:UH:146:GLY:O	45:UH:149:THR:HG22	2.14	0.48
44:UI:75:ILE:HD12	44:UI:75:ILE:H	1.78	0.48
44:UI:264:ARG:HD2	44:UI:428:LEU:HD13	1.95	0.48
44:UK:210:TYR:CZ	44:UK:227:LEU:HD11	2.47	0.48
44:UK:256:GLN:HE21	44:UK:260:VAL:CG1	2.26	0.48
44:UK:320:ARG:NH2	44:UK:359:PRO:O	2.46	0.48
45:UL:316:LEU:HB2	45:UL:366:THR:HG23	1.96	0.48
44:UM:9:VAL:HG22	44:UM:146:GLY:HA2	1.96	0.48
44:UM:272:TYR:HD1	44:UM:376:CYS:HB2	1.76	0.48
45:UN:24:ILE:O	45:UN:28:HIS:ND1	2.40	0.48
44:VA:7:ILE:HB	44:VA:137:VAL:HG23	1.96	0.48
44:VA:248:LEU:HD23	44:VA:353:VAL:HG13	1.96	0.48
44:VA:269:LEU:HD21	44:VA:381:SER:HB3	1.94	0.48
44:VA:390:ARG:HG3	44:VA:391:LEU:H	1.79	0.48
45:VB:67:ASP:OD2	45:VB:72:THR:HG21	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:135:ILE:O	45:VB:166:THR:HA	2.13	0.48
45:VB:214:THR:O	45:VB:216:LYS:HG3	2.13	0.48
45:VB:217:LEU:O	45:VB:217:LEU:HD12	2.13	0.48
45:VD:227:HIS:O	45:VD:230:SER:HB2	2.12	0.48
44:VE:102:ASN:OD1	44:VE:105:ARG:N	2.46	0.48
44:VE:344:VAL:HG11	44:VE:346:TRP:CE2	2.48	0.48
45:VF:86:ARG:NH1	45:WF:281:TYR:HD1	2.09	0.48
45:VF:113:ILE:HA	45:VF:116:VAL:HG12	1.95	0.48
44:VG:183:GLU:HG2	44:VG:184:PRO:CD	2.41	0.48
44:VG:204:LEU:HA	44:VG:302:MET:HG3	1.95	0.48
44:VI:143:GLY:CA	46:VI:501:GTP:H5'	2.43	0.48
44:VI:348:PRO:CB	45:VL:384:GLN:HE22	2.26	0.48
44:VK:27:GLU:CD	44:VK:243:ARG:HH21	2.16	0.48
44:VK:243:ARG:HG2	44:VK:244:PHE:CE2	2.48	0.48
44:VK:363:VAL:HG23	44:VK:364:PRO:HD2	1.94	0.48
45:VL:21:TRP:CH2	45:VL:61:PRO:HB3	2.49	0.48
44:VM:214:ARG:HG2	44:VM:214:ARG:NH1	2.28	0.48
44:WA:174:SER:OG	44:WA:207:GLU:HB2	2.13	0.48
44:WA:317:MET:HB2	44:WA:376:CYS:O	2.13	0.48
45:WB:73:MET:CA	45:WB:76:VAL:HG12	2.37	0.48
44:WE:324:VAL:HG13	44:WE:324:VAL:O	2.12	0.48
45:WF:112:LEU:HG	45:WF:115:SER:OG	2.13	0.48
44:WG:174:SER:OG	44:WG:206:ASN:HB2	2.13	0.48
44:WG:268:MET:CB	44:WG:380:ASN:HA	2.43	0.48
44:WG:363:VAL:CG1	44:WG:364:PRO:HD2	2.39	0.48
44:WI:317:MET:HE2	44:WI:375:VAL:CG2	2.43	0.48
44:WK:53:PHE:N	44:WK:64:ARG:HH21	2.11	0.48
1:6H:364:ARG:NH2	45:FL:224:ASP:CG	2.67	0.48
3:0B:5:CYS:HB3	45:JH:218:THR:HG21	1.92	0.48
6:0E:61:LYS:HE2	45:DB:37:HIS:CB	2.43	0.48
8:0G:38:GLU:HB3	45:JL:359:LYS:NZ	2.29	0.48
22:1L:412:HIS:HA	44:CG:221:ARG:NH2	2.28	0.48
25:1P:366:ALA:HB2	45:TB:360:GLY:HA3	1.93	0.48
15:1V:98:LEU:HD21	44:LI:405:VAL:CG1	2.44	0.48
26:2R:293:ASP:OD1	45:DH:216:LYS:NZ	2.31	0.48
26:2R:316:THR:H	45:CH:276:ARG:HH22	1.61	0.48
15:2V:113:ARG:HG2	44:LE:196:GLU:OE2	2.13	0.48
27:2W:189:ARG:HD3	44:KM:45:GLY:CA	2.43	0.48
28:3C:227:GLY:HA3	44:KA:221:ARG:HH12	1.79	0.48
32:3I:199:VAL:HB	44:GK:339:ARG:NH1	2.29	0.48
11:3Q:116:PRO:HG3	44:AG:263:PRO:HG2	1.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:3R:33:ASN:HD21	44:MK:45:GLY:CA	2.25	0.48
26:3R:394:TYR:HE1	45:EL:216:LYS:HE2	1.78	0.48
28:4C:21:LEU:HD21	44:LM:365:GLY:N	2.28	0.48
37:5D:46:ILE:HA	45:KN:391:ARG:CZ	2.43	0.48
39:5J:105:PRO:O	39:5J:109:TYR:HD1	1.96	0.48
11:5Q:39:ASP:OD2	11:5Q:41:ASP:HB2	2.14	0.48
11:5Q:94:LEU:HD12	11:5Q:99:VAL:O	2.13	0.48
35:5R:509:ASP:OD2	44:EI:40:LYS:HD3	2.14	0.48
36:5S:190:MET:SD	36:5S:218:ILE:HB	2.54	0.48
11:6Q:135:ASN:O	11:6Q:136:LEU:HB3	2.13	0.48
11:6Q:148:TYR:OH	11:6Q:151:THR:OG1	1.98	0.48
35:7R:222:PRO:HA	35:7R:224:ASN:N	2.27	0.48
35:7R:309:LEU:HD23	35:7R:329:TYR:HD2	1.79	0.48
43:8P:334:UNK:O	43:8P:338:UNK:N	2.47	0.48
43:8R:199:UNK:HA	43:8R:202:UNK:CE2	2.43	0.48
44:AC:432:TYR:O	44:AC:435:VAL:HG12	2.14	0.48
45:AD:127:CYS:SG	45:AD:130:LEU:HD13	2.53	0.48
44:AE:46:ASP:OD1	44:AE:47:ASP:N	2.46	0.48
44:AE:88:HIS:HD2	44:BE:283:HIS:HB3	1.77	0.48
44:AE:102:ASN:O	44:AE:105:ARG:HB2	2.13	0.48
44:AE:102:ASN:CB	44:AE:105:ARG:HG3	2.36	0.48
44:AE:229:ARG:CD	44:AE:363:VAL:HG11	2.43	0.48
44:AE:276:ILE:HD11	44:AE:280:LYS:CD	2.42	0.48
44:AE:318:MET:HG3	44:AE:319:TYR:N	2.28	0.48
45:AF:203:ASP:CG	45:AF:302:ALA:H	2.13	0.48
45:AF:245:GLN:C	45:AF:246:LEU:HD12	2.33	0.48
45:AH:86:ARG:HH22	45:BH:278:SER:HA	1.78	0.48
45:AJ:325:GLU:O	45:AJ:329:GLN:HG2	2.13	0.48
45:AL:49:VAL:CG2	45:AL:241:ARG:HD3	2.43	0.48
45:AL:73:MET:HE1	45:AL:92:PHE:CD1	2.48	0.48
44:AM:66:VAL:HG22	44:AM:68:LEU:CD1	2.42	0.48
44:AM:166:LYS:C	44:AM:167:LEU:HD12	2.33	0.48
45:AN:113:ILE:HD13	45:AN:154:LYS:HD2	1.95	0.48
45:AN:398:TYR:CB	45:AN:408:PHE:HZ	2.25	0.48
44:BC:101:ASN:CA	44:BC:144:GLY:HA3	2.41	0.48
45:BD:49:VAL:HB	45:BD:241:ARG:HG2	1.94	0.48
44:BE:68:LEU:HD11	44:BE:118:CYS:CB	2.29	0.48
44:BE:195:LEU:HG	44:BE:195:LEU:O	2.14	0.48
45:BF:21:TRP:CH2	45:BF:61:PRO:HB3	2.49	0.48
44:BG:102:ASN:HB3	44:BG:105:ARG:HG3	1.93	0.48
45:BH:143:THR:HG1	48:BH:502:GDP:PB	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:137:HIS:O	45:BJ:168:SER:HA	2.12	0.48
45:BJ:245:GLN:C	45:BJ:246:LEU:HD12	2.34	0.48
44:BK:52:PHE:HZ	44:BK:239:THR:OG1	1.97	0.48
44:BK:205:ASP:CG	44:BK:303:ALA:HA	2.34	0.48
44:BM:87:PHE:O	44:CM:283:HIS:HE1	1.96	0.48
44:BM:190:SER:O	44:BM:194:LEU:HG	2.13	0.48
45:BN:113:ILE:HD13	45:BN:150:LEU:HD22	1.96	0.48
44:CA:155:GLU:HG2	44:CA:197:HIS:CD2	2.48	0.48
44:CA:192:HIS:ND1	44:CA:424:ASP:OD2	2.40	0.48
44:CA:360:PRO:HG2	44:CA:374:ALA:CB	2.44	0.48
45:CB:20:PHE:CD1	45:CB:233:MET:HE2	2.49	0.48
45:CB:203:ASP:O	45:CB:207:LEU:HG	2.13	0.48
45:CB:248:SER:HB2	45:CB:252:LYS:CG	2.43	0.48
44:CC:261:PRO:HB3	45:CD:393:ALA:HB1	1.94	0.48
44:CC:311:LYS:HD2	44:CC:342:GLN:CG	2.42	0.48
44:CC:313:MET:HG3	44:CC:346:TRP:CH2	2.48	0.48
44:CC:363:VAL:CG2	44:CC:364:PRO:HD2	2.42	0.48
44:CE:88:HIS:CE1	44:CE:89:PRO:HD2	2.48	0.48
45:CF:66:MET:O	45:CF:67:ASP:HB2	2.14	0.48
45:CF:372:THR:HG22	45:CF:422:TYR:HE1	1.76	0.48
44:CG:2:ARG:CD	44:CG:242:LEU:HD22	2.29	0.48
45:CH:156:ARG:CD	45:CH:195:ASN:HB3	2.42	0.48
44:CI:111:GLY:O	44:CI:115:VAL:N	2.43	0.48
44:CK:291:ILE:HG13	44:CK:292:THR:H	1.79	0.48
44:CK:434:GLU:O	44:CK:437:ILE:HG12	2.13	0.48
45:CL:36:TYR:OH	45:CL:43:GLN:HB2	2.12	0.48
44:CM:53:PHE:HA	44:CM:62:VAL:O	2.13	0.48
45:CN:48:ASN:HA	45:CN:51:TYR:O	2.12	0.48
44:DA:251:ASP:HB2	44:DA:253:THR:HG22	1.96	0.48
44:DA:268:MET:CB	44:DA:380:ASN:HA	2.44	0.48
44:DA:276:ILE:CD1	44:DA:281:ALA:HA	2.43	0.48
44:DA:324:VAL:HG12	44:DA:326:LYS:HG3	1.94	0.48
44:DA:346:TRP:HB3	45:DB:391:ARG:HG3	1.95	0.48
45:DB:297:LYS:HG3	45:DB:298:ASN:N	2.29	0.48
45:DB:421:GLU:CA	45:DB:424:GLN:OE1	2.58	0.48
44:DC:141:VAL:HA	44:DC:147:SER:HB3	1.95	0.48
45:DD:64:ILE:HA	45:DD:89:ASN:HD22	1.78	0.48
44:DE:416:GLY:O	44:DE:420:GLU:N	2.26	0.48
44:DG:174:SER:HB2	44:DG:177:VAL:O	2.14	0.48
45:DH:206:ALA:HB1	45:DH:210:ILE:HD11	1.95	0.48
45:DJ:68:LEU:HD21	45:DJ:95:THR:OG1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:86:ARG:HH12	45:EJ:282:ARG:HG3	1.78	0.48
45:DL:269:GLY:CA	45:DL:300:MET:HE2	2.40	0.48
44:DM:237:SER:HA	44:DM:320:ARG:NH1	2.29	0.48
45:DN:63:ALA:C	45:DN:89:ASN:HD22	2.13	0.48
45:DN:237:THR:HG23	45:DN:241:ARG:HE	1.78	0.48
44:EA:213:CYS:SG	44:EA:222:PRO:HB3	2.53	0.48
44:EA:319:TYR:HA	44:EA:375:VAL:HG22	1.96	0.48
44:EC:195:LEU:O	44:EC:266:HIS:NE2	2.35	0.48
45:ED:105:HIS:HD2	45:ED:146:GLY:O	1.96	0.48
45:ED:304:ASP:OD2	45:ED:307:HIS:NE2	2.46	0.48
45:EF:286:VAL:CG1	45:EF:325:GLU:HG2	2.43	0.48
44:EI:307:PRO:HA	44:EI:383:ALA:HB2	1.94	0.48
44:EI:332:ILE:HG22	44:EI:336:LYS:NZ	2.28	0.48
44:EK:217:LEU:CB	44:EK:219:ILE:HG13	2.43	0.48
45:EN:70:PRO:HG3	45:EN:92:PHE:CB	2.35	0.48
45:EN:253:LEU:CB	45:EN:257:LEU:HD13	2.44	0.48
45:EN:253:LEU:HG	45:EN:257:LEU:CD1	2.43	0.48
44:FA:98:ASP:CG	44:FA:100:ALA:H	2.17	0.48
45:FB:4:ILE:HB	45:FB:132:GLY:O	2.13	0.48
44:FC:310:GLY:HA3	44:FC:382:THR:OG1	2.13	0.48
44:FC:326:LYS:HA	44:FC:326:LYS:CE	2.43	0.48
45:FD:139:LEU:HD23	45:FD:188:SER:OG	2.13	0.48
45:FD:274:THR:HB	45:FD:282:ARG:HD3	1.94	0.48
45:FF:200:MET:CE	45:FF:268:ILE:HG21	2.43	0.48
45:FH:64:ILE:HA	45:FH:90:PHE:CZ	2.49	0.48
44:FK:155:GLU:OE2	44:FK:193:SER:OG	2.25	0.48
45:FL:20:PHE:HB2	45:FL:233:MET:CE	2.42	0.48
45:FN:252:LYS:HG2	45:FN:350:LYS:NZ	2.28	0.48
45:FN:322:SER:O	45:FN:323:THR:CB	2.62	0.48
45:GB:36:TYR:OH	45:GB:43:GLN:HB3	2.13	0.48
45:GB:210:ILE:HD11	45:GB:300:MET:HA	1.96	0.48
45:GD:116:VAL:O	45:GD:120:VAL:N	2.46	0.48
44:GG:67:PHE:C	44:GG:68:LEU:HD22	2.33	0.48
44:GI:49:PHE:CZ	44:GI:61:HIS:HE1	2.30	0.48
44:GI:250:VAL:HB	44:GI:352:LYS:HZ1	1.79	0.48
45:GL:110:ALA:HA	45:GL:113:ILE:CG2	2.44	0.48
45:GL:370:ASN:OD1	45:GL:422:TYR:OH	2.32	0.48
45:GN:69:GLU:OE1	45:GN:71:GLY:N	2.46	0.48
45:GN:174:LYS:HB3	45:GN:205:GLU:OE1	2.14	0.48
45:GN:257:LEU:HD21	45:GN:368:VAL:O	2.13	0.48
44:HA:357:TYR:O	44:HA:359:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:202:ILE:HG23	45:HB:300:MET:CB	2.27	0.48
45:HB:317:PHE:CD2	45:HB:326:VAL:HG22	2.48	0.48
44:HC:145:THR:HG22	46:HC:501:GTP:O3B	2.13	0.48
45:HD:43:GLN:O	45:HD:44:LEU:HD12	2.13	0.48
44:HE:273:ALA:HB1	44:HE:274:PRO:HA	1.95	0.48
44:HE:278:ALA:CA	44:HE:369:ALA:HB2	2.42	0.48
45:HF:107:THR:HG23	45:HF:108:GLU:N	2.29	0.48
45:HF:113:ILE:CD1	45:HF:150:LEU:HD22	2.43	0.48
45:HF:135:ILE:HG13	45:HF:152:ILE:CD1	2.42	0.48
45:HF:206:ALA:HA	45:HF:209:ASP:HB3	1.94	0.48
45:HF:286:VAL:HB	45:HF:325:GLU:OE2	2.13	0.48
44:HG:141:VAL:HG11	44:HG:190:SER:OG	2.13	0.48
45:HH:170:VAL:HG23	45:HH:171:PRO:HD2	1.94	0.48
45:HH:303:ALA:N	45:HH:377:MET:HE2	2.15	0.48
45:HH:378:PHE:O	45:HH:381:VAL:HG12	2.13	0.48
44:HI:88:HIS:CG	44:HI:89:PRO:HD2	2.49	0.48
44:HI:101:ASN:HA	44:HI:144:GLY:HA3	1.95	0.48
45:HJ:73:MET:CE	45:HJ:92:PHE:HB3	2.43	0.48
44:HK:189:LEU:HD23	44:HK:421:ALA:HB2	1.95	0.48
44:HK:252:ILE:HA	44:HK:255:PHE:HE2	1.79	0.48
44:HK:406:HIS:CD2	45:HL:261:PRO:HD3	2.48	0.48
44:HM:106:GLY:HA3	44:HM:148:GLY:HA3	1.95	0.48
44:IA:158:SER:HB3	44:IA:197:HIS:CE1	2.48	0.48
44:IE:210:TYR:OH	45:IF:323:THR:HG23	2.13	0.48
44:IE:401:LYS:N	44:IE:401:LYS:HD3	2.28	0.48
44:IG:318:MET:HE2	44:IG:318:MET:HA	1.93	0.48
45:IH:22:GLU:HG2	45:IH:81:PHE:CG	2.48	0.48
45:IH:270:PHE:CD2	45:IH:273:LEU:HD21	2.48	0.48
45:IH:332:ASN:O	45:IH:336:LYS:HG2	2.12	0.48
45:IJ:20:PHE:HB2	45:IJ:233:MET:HE3	1.96	0.48
45:IJ:189:VAL:HB	45:IJ:415:MET:HE3	1.95	0.48
44:IK:195:LEU:HA	44:IK:266:HIS:CE1	2.49	0.48
44:IK:320:ARG:HG2	44:IK:358:GLN:O	2.13	0.48
45:IL:39:ASP:H	45:IL:43:GLN:NE2	2.10	0.48
44:IM:187:SER:O	44:IM:191:THR:N	2.40	0.48
45:IN:163:ILE:HG13	45:IN:163:ILE:O	2.13	0.48
44:JA:98:ASP:OD1	44:JA:99:ALA:N	2.47	0.48
44:JA:182:VAL:C	44:JA:184:PRO:HD2	2.34	0.48
45:JB:7:ILE:HG12	45:JB:64:ILE:HB	1.96	0.48
45:JB:25:SER:HA	45:JB:30:ILE:HG12	1.96	0.48
45:JB:163:ILE:HG22	45:JB:164:MET:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:10:GLY:O	44:JE:14:ILE:HG12	2.13	0.48
44:JE:277:SER:O	44:JE:281:ALA:HB2	2.12	0.48
44:JG:387:VAL:HG12	44:JG:390:ARG:NH1	2.28	0.48
45:JH:178:THR:HB	45:JH:181:GLU:CG	2.39	0.48
45:JH:206:ALA:O	45:JH:210:ILE:HG22	2.14	0.48
45:JH:289:LEU:CG	45:JH:363:MET:HE2	2.42	0.48
44:JI:175:PRO:HG2	44:JI:304:LYS:CG	2.43	0.48
45:JJ:214:THR:O	45:JJ:275:SER:HB3	2.13	0.48
44:JK:237:SER:HG	44:JK:320:ARG:NH2	2.07	0.48
45:JL:69:GLU:O	45:JL:73:MET:HE2	2.14	0.48
45:JL:134:GLN:CA	45:JL:165:GLU:HB2	2.42	0.48
45:JL:167:PHE:HE1	45:JL:200:MET:HE2	1.78	0.48
45:JL:394:PHE:HB3	45:JL:397:TRP:CZ3	2.48	0.48
44:JM:60:LYS:HE2	44:KM:282:TYR:O	2.12	0.48
44:JM:132:LEU:HD23	44:JM:134:GLY:N	2.28	0.48
44:JM:227:LEU:O	44:JM:231:ILE:HG13	2.14	0.48
45:JN:87:PRO:HA	45:JN:90:PHE:CD2	2.48	0.48
45:JN:169:VAL:O	45:JN:169:VAL:HG23	2.13	0.48
44:KA:72:PRO:HG2	45:KB:1:MET:HE2	1.93	0.48
44:KA:259:LEU:HD22	44:KA:268:MET:HE2	1.95	0.48
45:KB:256:ASN:C	45:KB:257:LEU:HD23	2.34	0.48
45:KB:398:TYR:HB3	45:KB:408:PHE:HZ	1.78	0.48
44:KC:51:THR:HG23	44:KC:52:PHE:N	2.29	0.48
45:KD:309:ARG:H	45:KD:372:THR:CG2	2.27	0.48
45:KD:315:ALA:C	45:KD:316:LEU:HD12	2.33	0.48
44:KE:398:MET:HE1	45:KF:345:ILE:HG13	1.95	0.48
45:KF:151:LEU:O	45:KF:155:VAL:HG22	2.14	0.48
44:KG:47:ASP:HB2	44:KG:49:PHE:CE1	2.48	0.48
44:KG:236:SER:O	44:KG:240:ALA:HB2	2.14	0.48
45:KH:330:MET:HE2	45:KH:330:MET:HA	1.94	0.48
44:KI:203:MET:CE	44:KI:387:VAL:HG21	2.44	0.48
44:KI:238:LEU:O	44:KI:238:LEU:HD23	2.14	0.48
45:KL:313:ALA:HA	45:KL:369:GLY:HA2	1.96	0.48
44:KM:70:LEU:HA	44:KM:95:GLY:CA	2.37	0.48
45:KN:401:GLU:OE1	45:KN:401:GLU:N	2.47	0.48
44:LA:178:SER:HB2	45:LB:347:ASN:HB3	1.95	0.48
44:LA:311:LYS:O	44:LA:382:THR:HG23	2.13	0.48
44:LA:375:VAL:O	44:LA:375:VAL:HG13	2.13	0.48
45:LB:45:GLU:O	45:LB:46:ARG:NH1	2.36	0.48
44:LE:99:ALA:CB	44:LE:145:THR:HB	2.44	0.48
44:LE:176:GLN:HG3	45:LF:331:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:250:VAL:HG13	44:LE:250:VAL:O	2.13	0.48
44:LG:259:LEU:HD11	44:LG:316:SER:HB3	1.95	0.48
44:LI:56:THR:C	44:MI:285:GLN:HA	2.34	0.48
44:LI:320:ARG:HE	44:LI:360:PRO:HD3	1.78	0.48
45:LJ:230:SER:HA	45:LJ:233:MET:HE3	1.95	0.48
45:LJ:330:MET:HA	45:LJ:330:MET:CE	2.43	0.48
45:LL:257:LEU:HD13	45:LL:312:THR:HB	1.95	0.48
44:LM:41:THR:HG22	44:LM:42:ILE:H	1.78	0.48
44:LM:175:PRO:HG2	44:LM:304:LYS:NZ	2.28	0.48
44:LM:406:HIS:O	44:LM:409:VAL:HB	2.14	0.48
45:LN:66:MET:SD	45:LN:116:VAL:HG21	2.53	0.48
45:LN:265:PHE:CB	45:LN:374:ILE:HD13	2.44	0.48
44:MC:175:PRO:HD2	44:MC:207:GLU:OE1	2.13	0.48
44:MC:287:SER:O	44:MC:291:ILE:HG23	2.14	0.48
45:MD:257:LEU:HA	45:MD:312:THR:CG2	2.44	0.48
45:MF:216:LYS:HD3	45:MF:275:SER:OG	2.13	0.48
45:MF:217:LEU:HD11	45:MF:220:PRO:HA	1.96	0.48
45:MF:309:ARG:N	45:MF:372:THR:HG22	2.25	0.48
44:MG:182:VAL:O	44:MG:182:VAL:HG22	2.14	0.48
45:MH:68:LEU:N	45:MH:68:LEU:HD12	2.29	0.48
44:MI:277:SER:O	44:MI:281:ALA:HB2	2.14	0.48
45:ML:72:THR:HG23	45:ML:73:MET:CG	2.43	0.48
45:ML:73:MET:CE	45:ML:92:PHE:HB3	2.39	0.48
45:ML:131:GLN:NE2	45:ML:250:LEU:HB3	2.26	0.48
44:MM:118:CYS:SG	44:MM:153:LEU:HD11	2.54	0.48
44:MM:269:LEU:HD21	44:MM:381:SER:OG	2.14	0.48
44:MM:332:ILE:O	44:MM:335:ILE:HB	2.13	0.48
45:MN:152:ILE:HA	45:MN:155:VAL:CG2	2.44	0.48
44:NA:353:VAL:HG12	45:ND:177:ASP:CG	2.33	0.48
45:NB:7:ILE:HD11	45:NB:66:MET:CE	2.43	0.48
44:NC:271:SER:HA	44:NC:302:MET:CE	2.44	0.48
45:ND:198:GLU:OE2	45:ND:254:ALA:HB2	2.12	0.48
44:NE:51:THR:O	44:NE:52:PHE:HD2	1.96	0.48
44:NE:130:THR:HG23	44:NE:131:GLY:N	2.29	0.48
44:NE:250:VAL:HG11	44:NE:352:LYS:CE	2.44	0.48
45:NF:135:ILE:O	45:NF:166:THR:HA	2.13	0.48
45:NF:348:ASN:O	45:NF:349:ILE:HD13	2.13	0.48
44:NI:226:ASN:O	44:NI:230:LEU:HD23	2.14	0.48
45:NL:368:VAL:HG13	45:NL:368:VAL:O	2.13	0.48
44:NM:404:PHE:CZ	45:NN:259:PRO:HB3	2.49	0.48
44:OA:11:GLN:HA	44:OA:14:ILE:CG1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:7:ILE:HB	45:OB:135:ILE:HD12	1.96	0.48
44:OC:276:ILE:HG23	44:OC:280:LYS:HB2	1.94	0.48
45:OD:4:ILE:CG2	45:OD:131:GLN:HB3	2.44	0.48
45:OD:99:ASN:HD21	45:OD:178:THR:CG2	2.26	0.48
44:OE:66:VAL:HG22	44:OE:68:LEU:CD2	2.44	0.48
44:OE:286:LEU:O	44:OE:373:ARG:HD2	2.13	0.48
45:OF:311:LEU:CD1	45:OF:372:THR:HG23	2.44	0.48
44:OG:241:SER:CA	44:OG:356:ASN:HD21	2.25	0.48
45:OH:256:ASN:HD22	45:OH:350:LYS:HD2	1.78	0.48
44:OI:271:SER:HA	44:OI:302:MET:HG3	1.96	0.48
44:OI:296:PHE:CD2	44:OI:341:ILE:HD13	2.49	0.48
44:OK:14:ILE:HD12	44:OK:74:VAL:HG21	1.95	0.48
44:OK:22:GLU:O	44:OK:26:LEU:HD23	2.14	0.48
44:OK:213:CYS:O	44:OK:218:ASP:N	2.46	0.48
45:ON:249:ASP:O	45:ON:253:LEU:HD13	2.13	0.48
44:PA:344:VAL:HG12	44:PA:347:CYS:HB3	1.95	0.48
45:PB:136:THR:HG22	45:PB:167:PHE:CG	2.47	0.48
45:PB:143:THR:HG23	45:PB:144:GLY:N	2.29	0.48
45:PB:320:ARG:H	45:PB:320:ARG:HD3	1.77	0.48
44:PC:102:ASN:HD22	44:PC:105:ARG:HG3	1.77	0.48
44:PC:229:ARG:HG2	44:PC:229:ARG:NH1	2.29	0.48
44:PC:326:LYS:HD3	45:PF:212:PHE:CZ	2.48	0.48
44:PC:433:GLU:O	44:PC:437:ILE:HG23	2.14	0.48
45:PD:257:LEU:CD2	45:PD:368:VAL:HG11	2.43	0.48
44:PE:11:GLN:HE22	45:PF:247:ASN:N	2.11	0.48
45:PF:180:VAL:C	45:PF:182:PRO:HD2	2.34	0.48
45:PF:217:LEU:HD11	45:PF:220:PRO:HG3	1.94	0.48
46:PG:501:GTP:O1G	45:PH:252:LYS:NZ	2.26	0.48
45:PH:166:THR:OG1	45:PH:199:CYS:HB2	2.13	0.48
44:PI:288:VAL:HG21	44:PI:319:TYR:HE2	1.75	0.48
44:PI:398:MET:HA	44:PI:398:MET:CE	2.43	0.48
45:PJ:323:THR:O	45:PJ:326:VAL:N	2.42	0.48
44:PK:419:SER:O	44:PK:422:ARG:N	2.46	0.48
45:PL:187:LEU:HD11	45:PL:408:PHE:CZ	2.48	0.48
45:PL:372:THR:HA	45:PL:422:TYR:CE2	2.45	0.48
45:PL:382:ALA:HB2	45:PL:415:MET:HE2	1.93	0.48
44:PM:311:LYS:HD3	44:PM:342:GLN:HG3	1.95	0.48
45:PN:210:ILE:HG23	45:PN:214:THR:CG2	2.43	0.48
44:QA:91:GLN:O	44:QA:93:ILE:HD12	2.13	0.48
45:QB:105:HIS:NE2	45:QB:150:LEU:HB2	2.29	0.48
45:QB:321:MET:CE	45:QB:326:VAL:HG21	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:188:ILE:CG2	44:QC:422:ARG:HH12	2.26	0.48
45:QD:101:TRP:NE1	45:QD:146:GLY:HA2	2.28	0.48
45:QF:169:VAL:O	45:QF:169:VAL:HG13	2.13	0.48
45:QF:286:VAL:O	45:QF:290:THR:HG22	2.14	0.48
44:QG:215:ARG:NH2	44:QG:300:ASN:HA	2.29	0.48
45:QH:30:ILE:HD11	45:QH:36:TYR:HD1	1.79	0.48
45:QH:104:GLY:O	45:QH:147:MET:HB2	2.13	0.48
45:QJ:124:ALA:HB1	45:QJ:130:LEU:HD22	1.95	0.48
44:QK:53:PHE:CE2	44:QK:63:PRO:HG3	2.42	0.48
44:QK:273:ALA:HA	44:QK:275:ILE:HD12	1.95	0.48
45:QL:3:GLU:HB2	45:QL:49:VAL:O	2.13	0.48
45:QL:174:LYS:HB2	45:QL:205:GLU:CD	2.34	0.48
44:QM:142:GLY:O	46:QM:501:GTP:H5'	2.14	0.48
44:QM:350:GLY:CA	45:QN:179:VAL:HG12	2.39	0.48
45:QN:3:GLU:HB2	45:QN:49:VAL:HA	1.94	0.48
45:QN:36:TYR:CE1	45:QN:44:LEU:HG	2.49	0.48
45:QN:73:MET:HA	45:QN:76:VAL:HG12	1.96	0.48
44:RA:287:SER:N	44:RA:290:GLU:OE2	2.38	0.48
45:RB:286:VAL:HG21	44:RC:221:ARG:NH1	2.29	0.48
45:RB:303:ALA:N	45:RB:377:MET:HE2	2.22	0.48
44:RC:104:ALA:HB2	44:RC:413:MET:HE2	1.95	0.48
44:RE:214:ARG:NH2	44:RE:220:GLU:HA	2.29	0.48
45:RF:7:ILE:O	45:RF:135:ILE:HD13	2.13	0.48
45:RF:325:GLU:O	45:RF:328:GLU:HG2	2.13	0.48
44:RG:182:VAL:O	44:RG:182:VAL:HG22	2.13	0.48
44:RI:30:ILE:HG13	44:RI:30:ILE:O	2.12	0.48
44:RI:141:VAL:HG22	44:RI:187:SER:OG	2.14	0.48
44:RI:182:VAL:C	44:RI:184:PRO:HD2	2.34	0.48
44:RK:238:LEU:CD2	44:RK:255:PHE:HE2	2.26	0.48
44:RK:267:PHE:O	44:RK:268:MET:HG3	2.14	0.48
45:RL:3:GLU:O	45:RL:130:LEU:HD12	2.14	0.48
45:RL:169:VAL:HA	45:RL:202:ILE:O	2.13	0.48
44:RM:277:SER:C	44:RM:369:ALA:HB2	2.33	0.48
45:RN:310:TYR:CD1	45:RN:371:SER:HB2	2.49	0.48
45:SB:230:SER:O	45:SB:233:MET:HG2	2.13	0.48
44:SC:199:ASP:O	44:SC:266:HIS:HB2	2.13	0.48
44:SC:428:LEU:HG	44:SC:432:TYR:HE2	1.77	0.48
44:SE:437:ILE:HG13	44:SE:437:ILE:O	2.13	0.48
45:SF:3:GLU:O	45:SF:130:LEU:HD12	2.13	0.48
44:SG:431:ASP:O	44:SG:435:VAL:HG23	2.13	0.48
45:SH:304:ASP:OD1	45:SH:306:ARG:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:12:CYS:O	45:SJ:16:ILE:CD1	2.60	0.48
45:SJ:214:THR:HG22	45:SJ:297:LYS:HD2	1.96	0.48
45:SL:15:GLN:HA	45:SL:15:GLN:OE1	2.12	0.48
44:SM:123:ARG:HH12	44:SM:124:LYS:NZ	2.11	0.48
44:SM:303:ALA:O	44:SM:305:CYS:N	2.45	0.48
44:SM:377:MET:O	44:SM:378:ILE:HD13	2.13	0.48
45:SN:3:GLU:N	45:SN:3:GLU:OE1	2.46	0.48
45:SN:17:GLY:O	45:SN:20:PHE:HB3	2.12	0.48
45:SN:237:THR:CG2	45:SN:241:ARG:HE	2.19	0.48
44:TA:20:CYS:HB2	44:TA:24:PHE:CZ	2.48	0.48
44:TA:215:ARG:HH12	44:TA:299:ALA:HB1	1.78	0.48
44:TA:312:TYR:HB2	44:TA:343:PHE:HA	1.96	0.48
45:TD:3:GLU:HG3	45:TD:127:CYS:HB2	1.95	0.48
45:TD:316:LEU:N	45:TD:366:THR:O	2.41	0.48
45:TD:341:PHE:HB3	45:TD:348:ASN:HD22	1.77	0.48
44:TE:282:TYR:CE1	44:TE:371:VAL:HG12	2.48	0.48
45:TF:224:ASP:O	45:TF:228:LEU:HG	2.14	0.48
44:TG:428:LEU:O	44:TG:431:ASP:HB2	2.13	0.48
45:TH:405:GLU:O	45:TH:408:PHE:HB2	2.13	0.48
45:TH:417:ASP:O	45:TH:421:GLU:HB2	2.13	0.48
45:TJ:68:LEU:HD23	45:TJ:97:ALA:N	2.28	0.48
45:TJ:318:ARG:HB2	45:TJ:364:ALA:CB	2.26	0.48
44:TK:4:VAL:HG21	44:TK:252:ILE:HD13	1.95	0.48
44:TK:183:GLU:HG2	44:TK:184:PRO:N	2.29	0.48
44:TK:270:SER:CB	44:TK:378:ILE:HD13	2.43	0.48
45:TL:136:THR:HG22	45:TL:167:PHE:HB2	1.95	0.48
44:TM:209:ILE:H	44:TM:209:ILE:HD12	1.78	0.48
44:TM:271:SER:HB2	44:TM:377:MET:SD	2.53	0.48
44:TM:295:ALA:HB1	44:TM:377:MET:HE3	1.93	0.48
45:TN:38:GLY:HA3	45:TN:43:GLN:HE22	1.79	0.48
45:TN:41:ASP:O	45:TN:45:GLU:HG3	2.14	0.48
45:TN:269:GLY:N	45:TN:367:PHE:O	2.47	0.48
44:UA:88:HIS:CG	44:UA:89:PRO:HD2	2.48	0.48
44:UA:270:SER:CB	44:UA:378:ILE:HA	2.44	0.48
44:UC:202:VAL:HG23	44:UC:268:MET:O	2.13	0.48
44:UC:288:VAL:HG21	44:UC:327:ASP:HB3	1.96	0.48
45:UD:4:ILE:CG2	45:UD:131:GLN:HB3	2.44	0.48
45:UD:6:HIS:CD2	45:UD:134:GLN:HG3	2.48	0.48
45:UD:139:LEU:CD2	45:UD:170:VAL:HG12	2.28	0.48
44:UE:21:TRP:CZ2	44:UE:65:ALA:HB2	2.48	0.48
45:UF:163:ILE:CD1	45:UF:250:LEU:HD21	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:327:ASP:O	45:UF:330:MET:HB3	2.14	0.48
44:UG:55:GLU:HG3	44:UG:57:GLY:H	1.78	0.48
44:UG:386:GLU:O	44:UG:390:ARG:HG2	2.13	0.48
45:UH:64:ILE:HA	45:UH:89:ASN:HB3	1.95	0.48
45:UH:322:SER:HB2	45:UH:325:GLU:CD	2.33	0.48
44:UI:7:ILE:O	44:UI:137:VAL:HA	2.14	0.48
44:UI:51:THR:CB	44:UI:243:ARG:HB3	2.44	0.48
44:UI:296:PHE:HE2	44:UI:335:ILE:HG21	1.78	0.48
45:UJ:211:CYS:HB2	45:UJ:217:LEU:CG	2.44	0.48
44:UK:85:GLN:O	44:UK:85:GLN:HG3	2.12	0.48
44:UK:205:ASP:OD2	44:UK:304:LYS:N	2.36	0.48
45:UL:20:PHE:CE1	45:UL:233:MET:HB2	2.48	0.48
45:UL:116:VAL:HA	45:UL:119:VAL:HG12	1.94	0.48
45:UL:350:LYS:NZ	44:UM:180:ALA:HB2	2.28	0.48
45:UN:238:CYS:HB2	45:UN:318:ARG:HE	1.78	0.48
44:VA:167:LEU:HG	44:VA:200:VAL:HB	1.96	0.48
45:VB:130:LEU:HD21	45:VB:133:PHE:HE1	1.78	0.48
45:VB:222:TYR:HA	45:VB:225:LEU:CD2	2.42	0.48
45:VD:34:GLY:O	45:VD:58:ARG:HA	2.13	0.48
45:VF:103:LYS:HG3	45:VF:108:GLU:CG	2.44	0.48
45:VF:270:PHE:HD2	45:VF:273:LEU:HD21	1.79	0.48
44:VG:240:ALA:HB1	44:VG:356:ASN:ND2	2.29	0.48
45:VH:292:GLN:O	45:VH:295:ASP:N	2.34	0.48
45:VH:309:ARG:N	45:VH:372:THR:OG1	2.43	0.48
44:VK:248:LEU:CD2	44:VK:353:VAL:HG23	2.40	0.48
45:VL:72:THR:HG23	45:VL:73:MET:N	2.29	0.48
45:VL:316:LEU:HG	45:VL:352:SER:HB2	1.95	0.48
44:VM:213:CYS:O	44:VM:217:LEU:HB2	2.13	0.48
45:VN:8:GLN:CG	45:VN:65:LEU:HG	2.43	0.48
44:WA:191:THR:HA	44:WA:194:LEU:HG	1.95	0.48
44:WC:3:GLU:HB3	44:WC:64:ARG:HH12	1.78	0.48
45:WD:4:ILE:HG21	45:WD:250:LEU:CD1	2.43	0.48
45:WD:139:LEU:HD23	45:WD:185:ALA:HA	1.93	0.48
45:WD:287:PRO:HA	45:WD:290:THR:HG22	1.94	0.48
44:WG:208:ALA:O	44:WG:212:ILE:HG12	2.13	0.48
44:WG:224:TYR:CD1	44:WG:227:LEU:HD12	2.41	0.48
45:WH:200:MET:HA	45:WH:266:PHE:O	2.14	0.48
44:WI:71:GLU:OE1	44:WI:73:THR:HB	2.13	0.48
44:WK:82:THR:HG23	44:WK:83:TYR:CD1	2.49	0.48
44:WK:195:LEU:HD12	44:WK:266:HIS:NE2	2.29	0.48
44:WK:292:THR:HG21	44:WK:331:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WL:135:ILE:HB	45:WL:166:THR:HG22	1.96	0.48
45:WL:200:MET:HE3	45:WL:266:PHE:CD2	2.48	0.48
44:WM:220:GLU:C	44:WM:221:ARG:HD3	2.33	0.48
44:WM:221:ARG:HB3	45:WN:322:SER:HB3	1.96	0.48
44:WM:224:TYR:H	45:WN:323:THR:HG21	1.78	0.48
44:WM:259:LEU:O	44:WM:259:LEU:HG	2.13	0.48
5:0D:59:GLY:HA3	44:EC:279:GLU:CD	2.33	0.48
7:0F:200:ALA:HB2	45:ED:53:GLU:HG3	1.96	0.48
8:0G:27:PHE:HA	44:IK:84:ARG:HH22	1.79	0.48
9:1H:352:GLU:HG2	44:GA:58:ALA:CB	2.42	0.48
20:1J:317:VAL:CG2	44:HK:57:GLY:HA3	2.43	0.48
21:1K:42:GLU:HG2	45:KF:212:PHE:HB3	1.94	0.48
21:1K:215:VAL:CG2	44:GA:370:LYS:HE3	2.27	0.48
25:1P:153:LYS:NZ	45:TJ:221:THR:HB	2.29	0.48
11:1Q:108:TYR:CZ	44:AC:419:SER:HB2	2.47	0.48
26:1R:260:LYS:CD	44:CC:41:THR:HG21	2.34	0.48
15:1V:70:THR:OG1	45:MJ:337:ASN:ND2	2.18	0.48
27:1W:59:SER:OG	45:LH:360:GLY:HA3	2.12	0.48
27:1W:195:TRP:CD2	44:LA:357:TYR:HE1	2.31	0.48
2:2A:135:SER:HB2	45:AJ:243:PRO:HG2	1.94	0.48
5:2D:57:THR:CA	44:EK:219:ILE:HG12	2.42	0.48
32:2I:80:TYR:CE2	44:FE:119:LEU:HB3	2.48	0.48
32:2I:116:LEU:C	44:GC:339:ARG:HD2	2.34	0.48
21:2K:266:LEU:HB3	44:GK:282:TYR:OH	2.12	0.48
24:2O:427:LEU:HD22	44:VA:282:TYR:CZ	2.47	0.48
31:3H:193:LEU:HD11	45:AH:362:LYS:CG	2.33	0.48
35:4R:175:GLU:OE2	45:AH:33:THR:HG23	2.12	0.48
37:5B:108:ARG:CG	44:KE:393:HIS:HE1	2.24	0.48
37:5B:146:VAL:HG21	44:NG:225:THR:HB	1.94	0.48
37:5D:54:ARG:NH1	44:KK:439:THR:HG22	2.28	0.48
35:5R:298:ASP:HB3	45:DJ:216:LYS:HE2	1.94	0.48
35:5R:393:SER:OG	35:5R:394:GLU:OE1	2.31	0.48
41:6G:92:LEU:HD12	44:UK:94:SER:O	2.13	0.48
41:6G:275:TYR:N	41:6G:276:PRO:CD	2.76	0.48
11:6Q:93:VAL:HG23	11:6Q:148:TYR:CE1	2.48	0.48
35:6R:89:ASP:OD1	35:6R:90:ARG:N	2.46	0.48
35:6R:436:GLU:HB3	45:FN:280:GLN:CD	2.33	0.48
35:7R:93:LEU:HD21	35:7R:190:PHE:CD2	2.48	0.48
35:7R:104:VAL:HG13	35:7R:105:GLU:N	2.28	0.48
35:7R:428:GLY:HA3	35:7R:504:GLN:O	2.14	0.48
35:7R:492:ILE:CD1	35:7R:508:ALA:HB2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:8L:369:UNK:HA	42:8L:372:UNK:CB	2.44	0.48
43:8P:13:UNK:HA	44:QM:370:LYS:CE	2.44	0.48
43:8P:32:UNK:HA	43:8P:35:UNK:CB	2.44	0.48
43:8P:260:UNK:O	43:8P:263:UNK:N	2.46	0.48
44:AA:70:LEU:HD12	44:AA:145:THR:HB	1.95	0.48
45:AB:192:LEU:HG	45:AB:196:ALA:HB2	1.96	0.48
45:AB:216:LYS:CG	45:AB:275:SER:HB3	2.41	0.48
45:AB:377:MET:O	45:AB:380:ARG:HG2	2.13	0.48
44:AC:114:ILE:HG22	44:AC:114:ILE:O	2.14	0.48
44:AC:388:PHE:CZ	44:AC:428:LEU:HD21	2.49	0.48
45:AD:204:ASN:OD1	45:AD:205:GLU:N	2.47	0.48
44:AE:174:SER:OG	44:AE:207:GLU:HB2	2.14	0.48
44:AE:315:CYS:SG	44:AE:317:MET:HB3	2.53	0.48
45:AF:286:VAL:CG1	45:AF:287:PRO:CD	2.70	0.48
45:AF:378:PHE:CB	45:AF:419:VAL:HG22	2.44	0.48
44:AG:71:GLU:OE1	45:AH:247:ASN:ND2	2.47	0.48
44:AG:145:THR:HG21	46:AG:501:GTP:O3G	2.14	0.48
45:AH:304:ASP:HB3	45:AH:307:HIS:CD2	2.49	0.48
44:AI:202:VAL:HG12	44:AI:204:LEU:HG	1.96	0.48
44:AK:37:PRO:HB2	44:AK:39:ASP:O	2.13	0.48
45:AL:117:LEU:HA	45:AL:120:VAL:HG12	1.95	0.48
44:AM:288:VAL:O	44:AM:291:ILE:HG12	2.14	0.48
44:AM:427:ALA:O	44:AM:430:LYS:HG2	2.13	0.48
45:AN:103:LYS:HA	45:AN:107:THR:OG1	2.13	0.48
44:BA:272:TYR:CD2	44:BA:275:ILE:HD11	2.48	0.48
44:BC:6:SER:C	44:BC:7:ILE:HD13	2.34	0.48
44:BC:137:VAL:HG12	44:BC:167:LEU:O	2.13	0.48
44:BC:319:TYR:CE2	44:BC:328:VAL:HG22	2.48	0.48
45:BD:72:THR:HG23	45:BD:73:MET:N	2.28	0.48
44:BE:261:PRO:HB2	44:BE:262:TYR:CD2	2.48	0.48
44:BE:326:LYS:NZ	45:BH:175:VAL:HG11	2.26	0.48
44:BE:413:MET:CE	44:BE:413:MET:HA	2.42	0.48
45:BF:2:ARG:N	45:BF:129:CYS:SG	2.78	0.48
45:BF:238:CYS:HB2	45:BF:318:ARG:NH2	2.29	0.48
44:BG:63:PRO:HG3	44:BG:86:LEU:HG	1.94	0.48
45:BL:249:ASP:H	45:BL:252:LYS:HD2	1.77	0.48
44:BM:413:MET:SD	44:BM:417:GLU:HB2	2.54	0.48
45:BN:127:CYS:SG	45:BN:130:LEU:HB2	2.53	0.48
45:BN:166:THR:HG22	45:BN:198:GLU:O	2.14	0.48
44:CA:89:PRO:HD2	44:DA:280:LYS:CD	2.43	0.48
44:CC:427:ALA:HA	44:CC:430:LYS:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:268:ILE:CG2	45:CD:368:VAL:HG22	2.44	0.48
45:CD:309:ARG:HD2	45:CD:341:PHE:O	2.13	0.48
45:CF:116:VAL:O	45:CF:120:VAL:HG12	2.13	0.48
45:CF:248:SER:HA	45:CF:252:LYS:HD2	1.94	0.48
45:CH:396:HIS:HA	45:CH:399:THR:CG2	2.43	0.48
45:CJ:3:GLU:OE2	45:CJ:128:ASP:N	2.46	0.48
45:CJ:242:PHE:HD2	45:CJ:356:ILE:HB	1.78	0.48
44:CK:298:PRO:HA	44:CK:301:MET:HE1	1.95	0.48
45:CL:46:ARG:HH21	44:CM:73:THR:HA	1.79	0.48
45:CL:325:GLU:HA	45:CL:328:GLU:CD	2.32	0.48
44:CM:128:ASN:HD22	44:DM:285:GLN:HE22	1.61	0.48
44:CM:189:LEU:HD21	44:CM:418:PHE:CE1	2.49	0.48
44:CM:276:ILE:HD13	44:CM:281:ALA:CA	2.40	0.48
44:DA:31:GLN:HB2	44:DA:35:GLN:O	2.13	0.48
44:DA:152:LEU:O	44:DA:156:ARG:HG3	2.13	0.48
45:DB:237:THR:CG2	45:DB:241:ARG:HE	2.18	0.48
45:DD:360:GLY:O	45:DD:361:LEU:HD23	2.13	0.48
45:DH:186:THR:HG23	45:DH:415:MET:HE2	1.95	0.48
45:DH:327:ASP:HA	45:DH:330:MET:CE	2.44	0.48
44:DI:151:SER:OG	44:DI:193:SER:OG	2.05	0.48
44:DI:194:LEU:CD2	44:DI:198:THR:HB	2.43	0.48
44:DI:437:ILE:O	44:DI:437:ILE:HG13	2.13	0.48
45:DJ:245:GLN:C	45:DJ:246:LEU:HD12	2.34	0.48
45:DJ:324:LYS:HE2	44:DK:210:TYR:HB3	1.95	0.48
44:DK:256:GLN:HB3	45:DL:397:TRP:CZ2	2.49	0.48
44:DK:273:ALA:HB2	44:DK:300:ASN:ND2	2.29	0.48
45:DL:289:LEU:HD11	45:DL:363:MET:CB	2.44	0.48
44:DM:184:PRO:HG2	44:DM:398:MET:HE1	1.96	0.48
44:DM:329:ASN:ND2	45:DN:175:VAL:HG12	2.28	0.48
44:DM:387:VAL:HG23	44:DM:388:PHE:N	2.29	0.48
45:DN:36:TYR:O	45:DN:37:HIS:HD2	1.96	0.48
45:EB:324:LYS:HG3	44:EC:210:TYR:HE2	1.77	0.48
44:EC:68:LEU:HA	44:EC:93:ILE:CG1	2.44	0.48
44:EE:31:GLN:HB3	44:EE:32:PRO:CD	2.44	0.48
45:EH:30:ILE:HD13	45:EH:51:TYR:OH	2.13	0.48
45:EJ:52:ASN:OD1	45:EJ:53:GLU:N	2.37	0.48
45:EJ:101:TRP:O	45:EJ:104:GLY:N	2.47	0.48
45:EL:22:GLU:OE2	45:EL:80:PRO:HG2	2.13	0.48
44:EM:319:TYR:HE1	44:EM:375:VAL:HG21	1.77	0.48
45:EN:274:THR:HG21	45:EN:279:GLN:HG3	1.95	0.48
45:EN:274:THR:CB	45:EN:282:ARG:HD3	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:140:GLY:HA2	45:FB:171:PRO:HB3	1.95	0.48
45:FB:167:PHE:CE2	45:FB:233:MET:HG2	2.48	0.48
45:FD:271:ALA:HB1	45:FD:292:GLN:OE1	2.12	0.48
44:FE:288:VAL:CA	44:FE:291:ILE:HG12	2.41	0.48
44:FG:24:PHE:HE1	44:FG:236:SER:HB2	1.79	0.48
44:FG:272:TYR:HD2	44:FG:275:ILE:HD11	1.77	0.48
45:FH:396:HIS:HA	45:FH:399:THR:CG2	2.44	0.48
44:FI:288:VAL:O	44:FI:292:THR:HG22	2.13	0.48
45:FJ:45:GLU:C	45:FJ:46:ARG:HD2	2.34	0.48
45:FJ:230:SER:HA	45:FJ:233:MET:HE2	1.96	0.48
44:FK:76:ASP:HA	44:FK:79:ARG:HH21	1.79	0.48
44:FK:93:ILE:HD12	44:FK:93:ILE:H	1.78	0.48
45:FL:313:ALA:HB3	45:FL:349:ILE:HG12	1.95	0.48
44:FM:405:VAL:HG12	44:FM:409:VAL:HG23	1.96	0.48
45:FN:291:GLN:NE2	45:FN:292:GLN:HB2	2.29	0.48
44:GA:222:PRO:CD	45:GB:324:LYS:NZ	2.72	0.48
45:GB:207:LEU:CD1	45:GB:225:LEU:HB3	2.43	0.48
45:GB:315:ALA:O	45:GB:351:SER:HA	2.13	0.48
44:GC:1:MET:HG3	44:GC:1:MET:O	2.14	0.48
44:GC:313:MET:CE	44:GC:435:VAL:HG11	2.44	0.48
45:GD:214:THR:O	45:GD:275:SER:HB3	2.14	0.48
45:GD:278:SER:HG	45:GD:281:TYR:HB2	1.77	0.48
45:GD:334:GLN:NE2	45:GD:348:ASN:H	2.11	0.48
45:GF:5:VAL:CG2	45:GF:62:ARG:HG2	2.39	0.48
45:GF:242:PHE:HD1	45:GF:356:ILE:CB	2.24	0.48
44:GG:320:ARG:CG	44:GG:374:ALA:HB3	2.43	0.48
45:GH:259:PRO:HB2	45:GH:260:PHE:CD2	2.48	0.48
45:GH:322:SER:CB	45:GH:324:LYS:N	2.69	0.48
45:GJ:396:HIS:HA	45:GJ:399:THR:HG22	1.95	0.48
44:GK:13:GLY:CA	44:GK:16:VAL:HG22	2.44	0.48
44:GK:38:SER:O	44:GK:41:THR:N	2.44	0.48
45:GL:4:ILE:HD11	45:GL:131:GLN:HG3	1.95	0.48
44:GM:285:GLN:NE2	44:GM:287:SER:HB2	2.28	0.48
44:GM:293:ASN:O	44:GM:297:GLU:N	2.46	0.48
45:GN:222:TYR:O	45:GN:226:ASN:ND2	2.46	0.48
45:GN:316:LEU:CB	45:GN:366:THR:HB	2.29	0.48
44:HC:67:PHE:C	44:HC:68:LEU:HD12	2.33	0.48
44:HE:3:GLU:CD	44:HE:131:GLY:H	2.16	0.48
44:HG:242:LEU:HD11	44:HG:252:ILE:HG12	1.96	0.48
45:HH:40:SER:OG	45:HH:41:ASP:N	2.46	0.48
44:HI:169:PHE:CE2	44:HI:235:ILE:HD11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:273:ALA:HB1	44:HI:274:PRO:HA	1.94	0.48
44:HM:66:VAL:HG22	44:HM:68:LEU:CD1	2.44	0.48
45:HN:121:ARG:NH2	45:HN:158:GLU:OE2	2.29	0.48
45:HN:166:THR:O	45:HN:166:THR:HG23	2.14	0.48
45:HN:183:TYR:HE1	45:HN:386:THR:OG1	1.97	0.48
44:IA:31:GLN:HB3	44:IA:32:PRO:HD2	1.96	0.48
44:IA:166:LYS:HD2	44:IA:197:HIS:O	2.14	0.48
45:IB:9:GLY:HA2	45:IB:66:MET:O	2.14	0.48
45:IB:12:CYS:HB2	48:IB:501:GDP:C8	2.49	0.48
44:IE:181:VAL:HG22	45:IF:256:ASN:HB3	1.96	0.48
45:IF:20:PHE:CE1	45:IF:233:MET:HB3	2.48	0.48
45:IF:34:GLY:O	45:IF:58:ARG:HA	2.14	0.48
44:IG:325:PRO:HG3	45:IJ:222:TYR:CE2	2.49	0.48
45:IH:7:ILE:CG2	45:IH:135:ILE:HD12	2.44	0.48
45:IH:305:PRO:HA	45:IH:373:ALA:CB	2.43	0.48
44:II:248:LEU:HD12	45:IL:11:GLN:OE1	2.14	0.48
44:IM:88:HIS:CD2	44:IM:89:PRO:HD2	2.48	0.48
44:IM:269:LEU:HD11	44:IM:301:MET:SD	2.53	0.48
45:IN:308:GLY:HA3	45:IN:372:THR:OG1	2.13	0.48
45:IN:329:GLN:O	45:IN:333:VAL:N	2.34	0.48
44:JA:265:ILE:HG12	44:JA:432:TYR:CE1	2.48	0.48
45:JB:167:PHE:CE2	45:JB:233:MET:HG2	2.49	0.48
45:JB:211:CYS:SG	45:JB:215:LEU:HD12	2.52	0.48
45:JD:352:SER:C	45:JD:353:ILE:HD12	2.33	0.48
44:JE:103:PHE:H	44:JE:408:TYR:HE2	1.61	0.48
45:JF:204:ASN:OD1	45:JF:205:GLU:N	2.47	0.48
44:JG:72:PRO:HG3	44:JG:95:GLY:O	2.14	0.48
45:JH:238:CYS:HB2	45:JH:318:ARG:CD	2.44	0.48
45:JJ:7:ILE:CG1	45:JJ:64:ILE:HD13	2.44	0.48
45:JJ:65:LEU:HD11	45:JJ:85:PHE:CE1	2.49	0.48
44:JK:11:GLN:OE1	44:JK:74:VAL:HG21	2.14	0.48
44:JK:19:ALA:HB2	44:JK:228:ASN:HB3	1.95	0.48
44:JK:214:ARG:HA	44:JK:219:ILE:O	2.14	0.48
44:KA:307:PRO:HB2	44:KA:312:TYR:HE1	1.78	0.48
45:KB:330:MET:CA	45:KB:333:VAL:HG12	2.43	0.48
44:KC:88:HIS:ND1	44:KC:90:GLU:HG2	2.28	0.48
45:KD:32:PRO:HG3	45:KD:81:PHE:HE1	1.78	0.48
45:KD:97:ALA:CB	45:KD:143:THR:HB	2.44	0.48
44:KG:47:ASP:OD2	44:KG:49:PHE:HE1	1.96	0.48
44:KI:247:ALA:O	45:KL:11:GLN:NE2	2.46	0.48
45:KJ:396:HIS:HA	45:KJ:399:THR:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:315:CYS:SG	44:KK:317:MET:HE3	2.54	0.48
44:KK:320:ARG:HD3	44:KK:360:PRO:HG3	1.94	0.48
45:KL:52:ASN:OD1	45:KL:62:ARG:NE	2.46	0.48
45:KN:87:PRO:HD3	45:LN:281:TYR:CE2	2.48	0.48
44:LA:196:GLU:O	44:LA:197:HIS:ND1	2.41	0.48
44:LA:210:TYR:HE1	44:LA:227:LEU:HD11	1.77	0.48
45:LB:233:MET:O	45:LB:236:VAL:HG12	2.14	0.48
45:LD:31:ASP:HB3	45:LD:32:PRO:HD2	1.93	0.48
45:LD:257:LEU:HB3	45:LD:266:PHE:CZ	2.48	0.48
44:LE:89:PRO:HG2	44:ME:280:LYS:HG3	1.96	0.48
45:LF:3:GLU:OE1	45:LF:3:GLU:N	2.46	0.48
45:LF:178:THR:HG21	45:LF:180:VAL:HG12	1.95	0.48
44:LG:183:GLU:HA	44:LG:186:ASN:OD1	2.14	0.48
44:LG:417:GLU:OE1	44:LG:417:GLU:N	2.46	0.48
45:LH:170:VAL:HG23	45:LH:171:PRO:HD2	1.95	0.48
45:LH:172:SER:OG	45:LH:175:VAL:HG23	2.14	0.48
44:LK:241:SER:OG	44:LK:250:VAL:O	2.19	0.48
44:LM:37:PRO:O	44:LM:38:SER:HB2	2.14	0.48
44:LM:286:LEU:O	44:LM:373:ARG:HG3	2.14	0.48
44:MA:287:SER:O	44:MA:290:GLU:HG2	2.13	0.48
44:MC:12:GLY:O	44:MC:16:VAL:HG12	2.14	0.48
45:MD:46:ARG:HB2	45:MD:46:ARG:CZ	2.43	0.48
45:MD:113:ILE:HD13	45:MD:154:LYS:HE2	1.95	0.48
44:ME:155:GLU:HA	44:ME:197:HIS:CE1	2.48	0.48
45:MJ:4:ILE:HG13	45:MJ:50:TYR:CE1	2.46	0.48
44:MK:340:THR:O	44:MK:341:ILE:HD13	2.13	0.48
45:ML:210:ILE:CD1	45:ML:214:THR:HG21	2.44	0.48
45:ML:212:PHE:O	45:ML:216:LYS:HA	2.13	0.48
44:MM:132:LEU:HD22	44:MM:164:LYS:HD2	1.95	0.48
45:MN:65:LEU:O	45:MN:91:VAL:HG22	2.14	0.48
45:MN:208:TYR:CZ	45:MN:225:LEU:HD11	2.48	0.48
44:NA:210:TYR:CE1	44:NA:227:LEU:HD21	2.48	0.48
44:NA:223:THR:HG22	44:NA:224:TYR:N	2.29	0.48
44:NA:227:LEU:O	44:NA:230:LEU:N	2.47	0.48
44:NC:269:LEU:CD2	44:NC:384:ILE:HD13	2.37	0.48
44:NC:346:TRP:CZ3	44:NC:347:CYS:HB2	2.49	0.48
45:ND:81:PHE:O	45:ND:84:LEU:HD13	2.13	0.48
44:NE:21:TRP:CZ3	44:NE:63:PRO:HB3	2.48	0.48
45:NF:2:ARG:NE	45:NF:240:LEU:HD12	2.29	0.48
45:NF:172:SER:OG	45:NF:175:VAL:HG22	2.14	0.48
45:NF:265:PHE:CD1	45:NF:378:PHE:HZ	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:402:ARG:HG2	44:NG:402:ARG:O	2.14	0.48
45:NH:113:ILE:O	45:NH:117:LEU:HG	2.14	0.48
45:NH:154:LYS:HA	45:NH:157:GLU:HG2	1.94	0.48
44:NI:270:SER:HB2	44:NI:378:ILE:CD1	2.44	0.48
45:NJ:31:ASP:OD1	45:NJ:35:THR:N	2.46	0.48
45:NJ:102:ALA:HB2	45:NJ:403:MET:CE	2.43	0.48
44:NK:99:ALA:O	44:NK:102:ASN:HB3	2.14	0.48
44:NK:254:GLU:O	44:NK:352:LYS:HE2	2.13	0.48
44:NM:69:ASP:HB3	44:NM:75:ILE:CD1	2.35	0.48
44:NM:408:TYR:HB3	44:NM:413:MET:CE	2.43	0.48
45:NN:234:SER:HB2	45:NN:241:ARG:NH2	2.22	0.48
44:OA:296:PHE:CE1	44:OA:335:ILE:HG21	2.48	0.48
45:OB:5:VAL:O	45:OB:5:VAL:HG23	2.13	0.48
45:OB:253:LEU:O	45:OB:257:LEU:HD13	2.13	0.48
44:OC:11:GLN:OE1	44:OC:74:VAL:HG11	2.13	0.48
44:OC:210:TYR:CD1	44:OC:227:LEU:HD21	2.48	0.48
44:OE:26:LEU:HD21	44:OE:364:PRO:HD3	1.95	0.48
44:OE:102:ASN:OD1	44:OE:105:ARG:HG3	2.13	0.48
44:OE:350:GLY:C	45:OH:179:VAL:HG12	2.33	0.48
45:OF:187:LEU:HD23	45:OF:411:ALA:HB2	1.95	0.48
44:OG:74:VAL:O	44:OG:77:GLU:HB3	2.12	0.48
44:OG:195:LEU:HD21	44:OG:264:ARG:NH1	2.29	0.48
44:OG:416:GLY:O	44:OG:420:GLU:HG2	2.13	0.48
45:OH:11:GLN:HA	45:OH:14:ASN:HB2	1.96	0.48
44:OI:88:HIS:CD2	44:PI:283:HIS:HB3	2.49	0.48
44:OI:99:ALA:O	44:OI:105:ARG:HD3	2.14	0.48
45:OJ:141:GLY:HA3	48:OJ:501:GDP:PB	2.54	0.48
45:OJ:293:MET:HE1	45:OJ:294:PHE:CE2	2.48	0.48
45:OJ:318:ARG:N	45:OJ:364:ALA:O	2.41	0.48
45:OJ:344:TRP:CE3	45:OJ:345:ILE:HG23	2.48	0.48
45:OJ:390:ARG:HD3	45:OJ:390:ARG:H	1.79	0.48
45:ON:74:ASP:HA	45:ON:77:ARG:HE	1.79	0.48
44:PA:268:MET:HA	44:PA:380:ASN:HA	1.95	0.48
44:PA:437:ILE:HD12	44:PA:437:ILE:H	1.79	0.48
45:PB:21:TRP:CD2	45:PB:61:PRO:HB3	2.48	0.48
45:PB:317:PHE:HB2	45:PB:353:ILE:HG13	1.94	0.48
45:PD:18:ALA:HB2	45:PD:76:VAL:CG2	2.44	0.48
45:PF:415:MET:O	45:PF:419:VAL:HG23	2.14	0.48
44:PG:4:VAL:HG22	44:PG:5:ILE:N	2.29	0.48
45:PL:67:ASP:O	45:PL:73:MET:HE1	2.12	0.48
45:PL:130:LEU:CD2	45:PL:162:ARG:HG3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:151:LEU:HD23	45:PL:155:VAL:CG2	2.44	0.48
44:PM:253:THR:HG23	44:PM:254:GLU:N	2.29	0.48
44:PM:270:SER:C	44:PM:301:MET:HE1	2.34	0.48
45:PN:273:LEU:O	45:PN:282:ARG:NH1	2.45	0.48
45:PN:325:GLU:HA	45:PN:328:GLU:HG2	1.96	0.48
45:PN:352:SER:C	45:PN:353:ILE:HD12	2.34	0.48
44:QA:288:VAL:CA	44:QA:291:ILE:HG12	2.32	0.48
45:QB:105:HIS:CE1	45:QB:150:LEU:HD12	2.49	0.48
45:QB:232:ALA:HB2	45:QB:270:PHE:CB	2.27	0.48
45:QB:252:LYS:CA	44:QC:100:ALA:HB1	2.44	0.48
44:QC:112:LYS:HA	44:QC:115:VAL:CG1	2.43	0.48
45:QD:392:LYS:O	45:QD:395:LEU:HB3	2.13	0.48
45:QF:5:VAL:HG21	45:QF:133:PHE:CD2	2.48	0.48
45:QF:97:ALA:O	45:QF:103:LYS:HD2	2.14	0.48
45:QF:257:LEU:C	45:QF:258:ILE:HD13	2.34	0.48
45:QF:300:MET:HE2	45:QF:300:MET:CA	2.44	0.48
45:QH:192:LEU:CD1	45:QH:196:ALA:HB2	2.44	0.48
45:QH:321:MET:CE	45:QH:353:ILE:HG13	2.43	0.48
44:QI:88:HIS:HB3	44:QI:91:GLN:HG2	1.96	0.48
44:QI:320:ARG:HG3	44:QI:360:PRO:HD3	1.94	0.48
45:QL:86:ARG:NE	45:RL:281:TYR:HD2	2.11	0.48
45:QL:313:ALA:O	45:QL:349:ILE:HA	2.14	0.48
44:QM:276:ILE:HD13	44:QM:281:ALA:HA	1.96	0.48
45:QN:290:THR:HG21	45:QN:329:GLN:OE1	2.14	0.48
44:RA:102:ASN:CG	44:RA:105:ARG:HG3	2.34	0.48
44:RA:288:VAL:O	44:RA:291:ILE:HG12	2.13	0.48
44:RA:294:SER:O	44:RA:297:GLU:HB2	2.12	0.48
45:RB:317:PHE:O	45:RB:353:ILE:HA	2.14	0.48
45:RD:261:PRO:HB3	44:RE:406:HIS:CD2	2.49	0.48
45:RD:309:ARG:NH2	45:RD:425:TYR:O	2.47	0.48
45:RF:68:LEU:HD23	45:RF:97:ALA:CA	2.43	0.48
45:RF:86:ARG:HG2	45:RF:89:ASN:OD1	2.13	0.48
44:RI:243:ARG:C	44:RI:244:PHE:HD1	2.17	0.48
44:RI:324:VAL:HG21	45:RJ:220:PRO:O	2.13	0.48
45:RJ:183:TYR:HE1	45:RJ:388:MET:HB3	1.78	0.48
45:RL:6:HIS:HA	45:RL:134:GLN:CG	2.43	0.48
45:RL:211:CYS:SG	45:RL:212:PHE:N	2.87	0.48
44:RM:52:PHE:HA	44:RM:64:ARG:HD2	1.96	0.48
44:RM:292:THR:O	44:RM:295:ALA:HB3	2.14	0.48
44:SA:21:TRP:CZ3	44:SA:63:PRO:HB3	2.48	0.48
45:SB:7:ILE:CG1	45:SB:64:ILE:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:130:LEU:HD23	45:SB:162:ARG:HG3	1.94	0.48
45:SB:272:PRO:HG3	45:SB:284:LEU:HD22	1.95	0.48
45:SB:296:ALA:HB1	45:SB:305:PRO:HD2	1.95	0.48
44:SC:8:HIS:HE1	44:SC:138:PHE:HE2	1.61	0.48
44:SC:353:VAL:CG1	45:SD:177:ASP:HA	2.43	0.48
44:SE:165:SER:O	44:SE:166:LYS:HG3	2.14	0.48
44:SE:273:ALA:HB1	44:SE:274:PRO:HA	1.95	0.48
45:SF:199:CYS:HB3	45:SF:264:HIS:O	2.14	0.48
44:SG:320:ARG:HG3	44:SG:360:PRO:HG3	1.94	0.48
45:SH:36:TYR:HB2	45:SH:59:TYR:OH	2.14	0.48
45:SH:317:PHE:CD2	45:SH:365:VAL:HG12	2.48	0.48
44:SI:89:PRO:HG3	44:TI:280:LYS:HE3	1.96	0.48
45:SJ:28:HIS:HD2	45:SJ:47:ILE:HD13	1.77	0.48
45:SJ:221:THR:HG23	45:SJ:223:GLY:N	2.28	0.48
44:SK:89:PRO:CB	44:TK:280:LYS:HE3	2.41	0.48
44:SK:240:ALA:HA	44:SK:243:ARG:CZ	2.44	0.48
45:SL:257:LEU:HB3	45:SL:266:PHE:CE2	2.48	0.48
45:SL:374:ILE:HG22	45:SL:377:MET:CE	2.43	0.48
44:SM:189:LEU:HD11	44:SM:418:PHE:CZ	2.49	0.48
45:SN:40:SER:O	45:SN:43:GLN:HB2	2.13	0.48
44:TA:289:ALA:HA	44:TA:292:THR:CG2	2.43	0.48
45:TB:227:HIS:HA	45:TB:230:SER:HB2	1.95	0.48
45:TB:378:PHE:HB3	45:TB:419:VAL:HG21	1.95	0.48
45:TD:313:ALA:HA	45:TD:369:GLY:HA2	1.94	0.48
45:TD:421:GLU:O	45:TD:424:GLN:HB3	2.14	0.48
45:TF:13:GLY:HA3	45:TF:136:THR:O	2.13	0.48
44:TG:182:VAL:C	44:TG:184:PRO:HD2	2.34	0.48
45:TH:242:PHE:HD1	45:TH:356:ILE:HG13	1.79	0.48
45:TH:352:SER:C	45:TH:353:ILE:HD12	2.34	0.48
44:TI:132:LEU:HB2	44:TI:164:LYS:HZ1	1.77	0.48
44:TI:230:LEU:HD11	44:TI:275:ILE:CD1	2.43	0.48
45:TJ:151:LEU:O	45:TJ:151:LEU:HD23	2.14	0.48
45:TJ:173:PRO:HG3	45:TJ:380:ARG:HD3	1.95	0.48
45:TJ:272:PRO:HG3	45:TJ:289:LEU:CD2	2.37	0.48
44:TK:270:SER:OG	44:TK:302:MET:HE1	2.14	0.48
44:TM:174:SER:CB	44:TM:207:GLU:HB2	2.44	0.48
44:TM:207:GLU:O	44:TM:210:TYR:HB2	2.13	0.48
45:TN:269:GLY:O	45:TN:366:THR:HG23	2.13	0.48
44:UA:387:VAL:HG12	44:UA:390:ARG:HH11	1.79	0.48
45:UB:25:SER:HG	45:UB:51:TYR:HH	1.59	0.48
44:UC:32:PRO:HB3	44:UC:83:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:40:SER:N	45:UD:43:GLN:OE1	2.46	0.48
45:UF:246:LEU:HA	44:UG:11:GLN:HE22	1.79	0.48
44:UG:104:ALA:HB3	44:UG:411:GLU:HB2	1.96	0.48
44:UG:288:VAL:HG11	44:UG:327:ASP:HB3	1.96	0.48
45:UH:181:GLU:HB2	45:UH:182:PRO:HD3	1.95	0.48
44:UI:119:LEU:HD21	44:UI:156:ARG:HD2	1.95	0.48
44:UI:140:SER:HB2	46:UI:501:GTP:H1'	1.95	0.48
44:UI:254:GLU:HA	44:UI:257:THR:OG1	2.14	0.48
45:UJ:68:LEU:CG	45:UJ:96:GLY:HA2	2.43	0.48
44:UK:115:VAL:HG21	44:UK:156:ARG:HD2	1.96	0.48
44:UM:102:ASN:CG	44:UM:411:GLU:HG3	2.33	0.48
44:UM:161:TYR:HD1	44:UM:164:LYS:HZ2	1.61	0.48
44:VA:229:ARG:HG2	44:VA:229:ARG:NH1	2.29	0.48
44:VA:240:ALA:HA	44:VA:243:ARG:CZ	2.44	0.48
44:VA:389:SER:HA	44:VA:429:GLU:OE2	2.13	0.48
45:VB:86:ARG:HD2	45:VB:87:PRO:N	2.28	0.48
45:VB:318:ARG:HD3	45:VB:358:PRO:HG3	1.96	0.48
45:VD:47:ILE:O	45:VD:51:TYR:HA	2.13	0.48
44:VE:181:VAL:HG22	45:VF:256:ASN:HB3	1.95	0.48
44:VE:384:ILE:HD11	44:VE:432:TYR:CE2	2.49	0.48
45:VF:295:ASP:OD1	45:VF:297:LYS:HG2	2.13	0.48
44:VG:223:THR:HG23	44:VG:225:THR:H	1.78	0.48
44:VG:407:TRP:CZ2	45:VH:258:ILE:HD11	2.44	0.48
45:VH:226:ASN:O	45:VH:230:SER:HB3	2.14	0.48
45:VH:321:MET:SD	45:VH:363:MET:HG2	2.53	0.48
44:VI:233:GLN:HA	44:VI:236:SER:CB	2.44	0.48
45:VJ:22:GLU:HG2	45:VJ:81:PHE:CD1	2.48	0.48
45:VJ:200:MET:HE3	45:VJ:200:MET:HA	1.94	0.48
44:VK:225:THR:HA	44:VK:228:ASN:HB2	1.96	0.48
44:VM:99:ALA:CB	44:VM:145:THR:HB	2.44	0.48
44:VM:426:ALA:C	44:VM:430:LYS:HZ2	2.16	0.48
45:VN:172:SER:HB2	45:VN:205:GLU:OE1	2.13	0.48
44:WA:88:HIS:CG	44:WA:89:PRO:HD2	2.48	0.48
44:WA:209:ILE:HA	44:WA:212:ILE:HG12	1.95	0.48
45:WB:53:GLU:OE2	45:WB:57:GLY:HA2	2.13	0.48
45:WB:131:GLN:HE22	45:WB:249:ASP:HB2	1.77	0.48
44:WC:123:ARG:HD2	44:WC:127:ASP:OD2	2.13	0.48
44:WC:176:GLN:NE2	44:WC:207:GLU:OE2	2.47	0.48
44:WC:231:ILE:O	44:WC:234:VAL:HB	2.13	0.48
45:WD:172:SER:OG	45:WD:205:GLU:HB2	2.14	0.48
45:WD:342:VAL:HG13	45:WD:345:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:99:ASN:HA	45:WF:142:GLY:H	1.79	0.48
44:WG:326:LYS:HG2	45:WJ:220:PRO:HD2	1.94	0.48
45:WH:241:ARG:HG3	45:WH:242:PHE:CD2	2.48	0.48
44:WI:223:THR:HG22	44:WI:226:ASN:OD1	2.13	0.48
45:WJ:146:GLY:O	45:WJ:149:THR:HG22	2.13	0.48
45:WJ:185:ALA:O	45:WJ:189:VAL:HG22	2.13	0.48
45:WJ:257:LEU:HB3	45:WJ:266:PHE:CE1	2.48	0.48
45:WJ:362:LYS:O	45:WJ:363:MET:HG2	2.12	0.48
45:WN:317:PHE:O	45:WN:354:CYS:N	2.29	0.48
45:WN:406:MET:O	45:WN:410:GLU:HG3	2.14	0.48
2:0A:71:TYR:CZ	44:AA:223:THR:HG21	2.48	0.48
3:0B:91:ASN:OD1	44:JG:364:PRO:HB2	2.13	0.48
7:0F:51:THR:HA	44:EE:219:ILE:HG12	1.96	0.48
20:1J:122:ARG:HA	44:IE:219:ILE:HD11	1.89	0.48
20:1J:145:ILE:HD13	44:IE:322:ASP:O	2.14	0.48
22:1L:892:ARG:HH21	44:CC:279:GLU:H	1.60	0.48
10:1N:247:GLN:HG3	44:KG:2:ARG:HH22	1.78	0.48
29:2F:75:LEU:HD12	45:HF:294:PHE:HD2	1.78	0.48
26:2R:8:LEU:HD13	45:MJ:361:LEU:HG	1.93	0.48
26:2R:145:GLY:O	45:BJ:276:ARG:HB2	2.13	0.48
12:2S:146:LYS:HD2	44:WG:123:ARG:CZ	2.44	0.48
14:2U:238:SER:HA	45:WJ:33:THR:CG2	2.36	0.48
31:3H:185:GLU:OE2	45:AH:359:LYS:NZ	2.46	0.48
32:3I:260:MET:HG3	45:GJ:336:LYS:HG3	1.95	0.48
15:3V:94:GLY:CA	45:LB:262:ARG:HE	2.26	0.48
34:4F:57:VAL:CB	45:IJ:245:GLN:HE22	2.27	0.48
37:5D:19:ARG:HG2	45:KN:414:ASN:O	2.13	0.48
37:5D:72:LYS:HE3	45:KN:427:ASP:OD2	2.12	0.48
38:5F:42:TYR:HB3	44:OC:281:ALA:HB1	1.95	0.48
38:5F:189:ILE:HG13	38:5F:190:GLN:N	2.29	0.48
38:5F:197:LEU:HD12	44:LG:393:HIS:NE2	2.29	0.48
39:5J:30:LYS:O	39:5J:33:GLN:HG2	2.13	0.48
39:5K:81:LEU:O	39:5K:85:LEU:HG	2.13	0.48
35:5R:112:ARG:HE	45:BL:276:ARG:NH1	2.10	0.48
35:5R:135:MET:SD	35:5R:213:LYS:NZ	2.65	0.48
35:5R:258:PHE:CE1	35:5R:356:THR:HG21	2.48	0.48
35:5R:547:GLU:O	35:5R:551:LEU:HG	2.13	0.48
35:6R:21:LEU:HD21	44:LK:322:ASP:HB3	1.95	0.48
35:6R:294:ASN:ND2	45:DN:217:LEU:HB2	2.27	0.48
35:6R:404:LEU:HD13	45:DN:77:ARG:NE	2.29	0.48
35:7R:219:LYS:HZ2	45:BD:75:SER:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:436:GLU:HB2	45:FB:280:GLN:OE1	2.13	0.48
35:7R:491:GLN:HB2	35:7R:494:GLU:HG3	1.95	0.48
42:8N:123:UNK:CA	44:RI:370:LYS:HZ1	2.27	0.48
43:8R:154:UNK:HA	45:PJ:276:ARG:HH12	1.79	0.48
44:AA:275:ILE:HG23	44:AA:368:LEU:CD1	2.42	0.48
45:AB:166:THR:HG21	45:AB:192:LEU:HD11	1.95	0.48
44:AC:238:LEU:HD23	44:AC:238:LEU:C	2.34	0.48
45:AD:28:HIS:HE1	45:AD:241:ARG:HD3	1.75	0.48
45:AD:107:THR:CG2	45:AD:401:GLU:HB3	2.42	0.48
45:AD:256:ASN:HD22	45:AD:350:LYS:CD	2.17	0.48
44:AE:311:LYS:N	44:AE:382:THR:OG1	2.38	0.48
45:AF:202:ILE:HG23	45:AF:300:MET:CE	2.44	0.48
44:AI:109:THR:HG22	44:AI:110:ILE:HG23	1.96	0.48
44:AI:137:VAL:CG1	44:AI:168:GLY:HA2	2.43	0.48
44:AI:276:ILE:HG23	44:AI:281:ALA:CB	2.42	0.48
45:AJ:42:LEU:HA	45:AJ:45:GLU:HG3	1.96	0.48
44:BA:90:GLU:HB3	44:CA:280:LYS:HZ2	1.78	0.48
44:BA:196:GLU:OE1	44:BA:196:GLU:N	2.47	0.48
44:BA:276:ILE:CD1	44:BA:281:ALA:HA	2.40	0.48
44:BC:22:GLU:HG3	44:BC:83:TYR:CE2	2.48	0.48
44:BC:101:ASN:ND2	45:BD:252:LYS:HG3	2.28	0.48
45:BF:385:PHE:CE2	45:BF:412:GLU:HB2	2.48	0.48
44:BG:354:GLY:O	44:BG:355:ILE:HG13	2.12	0.48
45:BJ:332:ASN:O	45:BJ:336:LYS:HG2	2.13	0.48
44:BK:407:TRP:HZ3	45:BL:255:VAL:HA	1.76	0.48
45:BL:208:TYR:CE1	45:BL:225:LEU:HD11	2.49	0.48
45:BL:214:THR:O	45:BL:275:SER:HB2	2.13	0.48
44:BM:362:VAL:HG13	44:BM:362:VAL:O	2.13	0.48
45:BN:257:LEU:O	45:BN:312:THR:HG21	2.13	0.48
45:BN:273:LEU:H	45:BN:292:GLN:NE2	2.12	0.48
45:BN:299:MET:HE2	45:BN:305:PRO:HG3	1.95	0.48
45:CB:304:ASP:CG	45:CB:306:ARG:HG2	2.34	0.48
45:CB:344:TRP:CE3	45:CB:345:ILE:HG13	2.49	0.48
44:CC:237:SER:CB	44:CC:376:CYS:HB3	2.44	0.48
45:CD:1:MET:SD	44:CE:96:LYS:HG2	2.53	0.48
45:CD:318:ARG:HB3	45:CD:358:PRO:HD3	1.96	0.48
44:CE:278:ALA:CB	44:CE:369:ALA:HB2	2.43	0.48
45:CF:175:VAL:HG23	45:CF:175:VAL:O	2.14	0.48
45:CH:255:VAL:HG21	44:CI:100:ALA:O	2.14	0.48
44:CI:363:VAL:CG1	44:CI:366:GLY:HA3	2.44	0.48
45:CJ:47:ILE:HG12	45:CJ:51:TYR:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CJ:69:GLU:OE2	45:CJ:72:THR:HG22	2.13	0.48
45:CJ:217:LEU:HD11	45:CJ:220:PRO:CB	2.43	0.48
45:CL:268:ILE:HG13	45:CL:300:MET:HB2	1.95	0.48
44:CM:384:ILE:HD12	44:CM:387:VAL:CG2	2.42	0.48
44:DA:145:THR:HG22	46:DA:501:GTP:O3G	2.14	0.48
44:DA:316:SER:HA	44:DA:352:LYS:CB	2.35	0.48
44:DA:422:ARG:HH11	44:DA:426:ALA:HB2	1.79	0.48
45:DB:24:ILE:HA	45:DB:27:GLU:OE2	2.14	0.48
45:DD:87:PRO:HD2	45:ED:281:TYR:HD2	1.79	0.48
44:DE:183:GLU:HG2	44:DE:184:PRO:HD3	1.96	0.48
45:DH:238:CYS:HB2	45:DH:318:ARG:CZ	2.44	0.48
44:DI:62:VAL:O	44:DI:62:VAL:HG23	2.14	0.48
45:DJ:68:LEU:HG	45:DJ:96:GLY:N	2.20	0.48
45:DL:353:ILE:HD12	45:DL:353:ILE:N	2.29	0.48
44:DM:69:ASP:OD2	44:DM:74:VAL:HG21	2.14	0.48
45:DN:30:ILE:HG21	45:DN:84:LEU:HD21	1.95	0.48
45:DN:109:GLY:O	45:DN:113:ILE:HB	2.13	0.48
45:DN:222:TYR:HA	45:DN:225:LEU:HD12	1.94	0.48
45:EB:267:MET:SD	45:EB:374:ILE:HD13	2.53	0.48
45:ED:51:TYR:HD1	45:ED:61:PRO:N	2.12	0.48
45:EF:300:MET:HE3	45:EF:300:MET:CA	2.42	0.48
44:EG:268:MET:HB3	44:EG:380:ASN:HB2	1.95	0.48
44:EG:280:LYS:O	44:EG:280:LYS:HG3	2.13	0.48
45:EH:18:ALA:O	45:EH:22:GLU:HG3	2.14	0.48
45:EH:19:LYS:O	45:EH:23:VAL:HG22	2.14	0.48
44:EI:34:GLY:CA	44:EI:60:LYS:HA	2.44	0.48
45:EJ:6:HIS:CD2	45:EJ:8:GLN:OE1	2.66	0.48
45:EJ:263:LEU:HG	45:EJ:422:TYR:CE1	2.49	0.48
44:EM:88:HIS:HB3	44:EM:91:GLN:CG	2.31	0.48
45:EN:266:PHE:CZ	45:EN:370:ASN:HB2	2.49	0.48
45:EN:286:VAL:HB	45:EN:287:PRO:HD3	1.96	0.48
44:FA:24:PHE:O	44:FA:28:HIS:N	2.46	0.48
45:FB:204:ASN:OD1	48:FB:501:GDP:O2'	2.26	0.48
44:FC:21:TRP:HA	44:FC:21:TRP:CE3	2.48	0.48
44:FC:224:TYR:HA	44:FC:227:LEU:HD12	1.96	0.48
45:FD:313:ALA:CB	45:FD:349:ILE:HG13	2.42	0.48
44:FE:346:TRP:HZ3	45:FH:394:PHE:CE1	2.31	0.48
44:FG:22:GLU:HG3	44:FG:83:TYR:CZ	2.49	0.48
44:FG:128:ASN:HD21	44:GG:285:GLN:NE2	2.12	0.48
44:FG:174:SER:CB	44:FG:207:GLU:HB2	2.44	0.48
45:FH:86:ARG:HH22	45:GH:278:SER:HA	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:257:LEU:HD21	45:FH:314:SER:CB	2.42	0.48
44:FI:331:SER:OG	44:FI:332:ILE:HD12	2.14	0.48
44:FK:31:GLN:HB2	44:FK:35:GLN:O	2.14	0.48
44:FM:256:GLN:HA	44:FM:260:VAL:CG2	2.44	0.48
45:GB:135:ILE:CG1	45:GB:152:ILE:HD11	2.42	0.48
45:GB:274:THR:CG2	45:GB:279:GLN:HB2	2.42	0.48
45:GD:3:GLU:H	45:GD:3:GLU:CD	2.16	0.48
44:GE:202:VAL:HA	44:GE:268:MET:O	2.14	0.48
44:GE:224:TYR:HB3	46:GE:501:GTP:O6	2.12	0.48
44:GE:230:LEU:O	44:GE:233:GLN:N	2.45	0.48
45:GF:2:ARG:HH12	45:GF:46:ARG:NH1	2.08	0.48
44:GG:304:LYS:HA	44:GG:304:LYS:CE	2.41	0.48
45:GJ:130:LEU:HD21	45:GJ:133:PHE:CE1	2.48	0.48
45:GJ:293:MET:HE2	45:GJ:367:PHE:HB2	1.90	0.48
44:GM:101:ASN:HA	44:GM:144:GLY:H	1.78	0.48
44:GM:170:THR:HG21	44:GM:194:LEU:HD22	1.95	0.48
45:GN:20:PHE:HA	45:GN:23:VAL:HG22	1.96	0.48
45:GN:253:LEU:O	45:GN:257:LEU:HD13	2.13	0.48
45:GN:345:ILE:O	45:GN:345:ILE:HG23	2.13	0.48
44:HA:203:MET:HE3	44:HA:268:MET:O	2.14	0.48
44:HA:254:GLU:HG2	45:HD:98:GLY:CA	2.41	0.48
45:HB:101:TRP:HD1	45:HB:145:SER:OG	1.96	0.48
45:HD:48:ASN:HA	45:HD:51:TYR:O	2.14	0.48
44:HE:11:GLN:HG2	44:HE:15:GLN:HE21	1.77	0.48
44:HE:26:LEU:HD23	44:HE:26:LEU:O	2.13	0.48
44:HE:169:PHE:CE2	44:HE:235:ILE:HD13	2.49	0.48
44:HE:317:MET:HE3	44:HE:319:TYR:CE1	2.49	0.48
45:HF:51:TYR:CE1	45:HF:61:PRO:HG3	2.46	0.48
45:HF:419:VAL:HG13	45:HF:420:SER:N	2.29	0.48
44:HG:67:PHE:C	44:HG:68:LEU:HD22	2.34	0.48
44:HG:70:LEU:HD13	44:HG:110:ILE:CD1	2.42	0.48
44:HG:210:TYR:CE1	44:HG:227:LEU:HD11	2.48	0.48
44:HG:220:GLU:C	44:HG:221:ARG:HD3	2.33	0.48
45:HJ:374:ILE:HD11	45:HJ:422:TYR:CZ	2.49	0.48
45:HL:374:ILE:O	45:HL:374:ILE:HG22	2.13	0.48
44:HM:280:LYS:O	44:HM:280:LYS:HG3	2.13	0.48
45:HN:97:ALA:HB2	45:HN:143:THR:HB	1.95	0.48
45:HN:113:ILE:HD13	45:HN:154:LYS:CE	2.44	0.48
45:HN:133:PHE:CD2	45:HN:155:VAL:HG11	2.48	0.48
45:HN:286:VAL:CB	45:HN:287:PRO:HD3	2.43	0.48
45:IB:287:PRO:HA	45:IB:290:THR:CG2	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IC:88:HIS:ND1	44:IC:89:PRO:HD2	2.29	0.48
44:IC:141:VAL:HG22	44:IC:187:SER:HA	1.95	0.48
44:IE:269:LEU:CD1	44:IE:303:ALA:HB3	2.44	0.48
44:IE:402:ARG:O	44:IE:405:VAL:HG22	2.12	0.48
45:IF:152:ILE:HA	45:IF:155:VAL:CG2	2.43	0.48
44:IG:39:ASP:OD1	44:IG:40:LYS:N	2.47	0.48
44:IG:221:ARG:NH2	45:IH:321:MET:HB2	2.28	0.48
45:IH:68:LEU:CD2	45:IH:112:LEU:HD13	2.43	0.48
44:II:402:ARG:HB2	44:II:405:VAL:CG2	2.37	0.48
45:IN:370:ASN:OD1	45:IN:422:TYR:OH	2.30	0.48
44:JA:387:VAL:HG12	44:JA:390:ARG:HH12	1.78	0.48
45:JB:2:ARG:HA	45:JB:129:CYS:O	2.14	0.48
44:JC:258:ASN:HD21	44:JC:352:LYS:HG3	1.76	0.48
44:JE:269:LEU:HD11	44:JE:305:CYS:HB3	1.96	0.48
44:JE:271:SER:OG	44:JE:301:MET:SD	2.72	0.48
45:JF:227:HIS:HA	45:JF:230:SER:HB2	1.96	0.48
44:JG:90:GLU:HB3	44:KG:280:LYS:CE	2.44	0.48
44:JG:407:TRP:NE1	45:JH:258:ILE:HD11	2.28	0.48
45:JH:180:VAL:O	45:JH:180:VAL:HG22	2.14	0.48
44:JI:21:TRP:CH2	44:JI:63:PRO:HB3	2.49	0.48
45:JJ:139:LEU:HA	45:JJ:145:SER:CB	2.43	0.48
44:JK:178:SER:HB2	44:JK:183:GLU:OE2	2.13	0.48
45:JL:245:GLN:O	45:JL:246:LEU:HD12	2.12	0.48
45:JL:260:PHE:HB3	45:JL:261:PRO:CD	2.43	0.48
44:JM:407:TRP:HZ2	45:JN:258:ILE:CG2	2.26	0.48
45:JN:260:PHE:HB2	45:JN:263:LEU:HD12	1.95	0.48
44:KA:66:VAL:HG22	44:KA:68:LEU:CD1	2.44	0.48
44:KA:263:PRO:HB3	45:KD:396:HIS:CD2	2.49	0.48
45:KB:318:ARG:N	45:KB:364:ALA:O	2.36	0.48
44:KC:371:VAL:HG22	44:KC:372:MET:N	2.29	0.48
44:KC:404:PHE:CZ	45:KD:345:ILE:HD11	2.49	0.48
44:KE:164:LYS:HE2	44:KE:164:LYS:HA	1.95	0.48
45:KF:239:CYS:O	45:KF:247:ASN:ND2	2.46	0.48
44:KG:320:ARG:HB2	44:KG:374:ALA:HB3	1.96	0.48
44:KI:11:GLN:HA	44:KI:14:ILE:HD12	1.96	0.48
45:KJ:152:ILE:HA	45:KJ:155:VAL:HG22	1.96	0.48
45:KJ:217:LEU:HD23	45:KJ:219:THR:H	1.78	0.48
44:KK:3:GLU:CG	44:KK:64:ARG:HH22	2.24	0.48
44:KK:233:GLN:HG3	44:KK:272:TYR:OH	2.14	0.48
44:KK:313:MET:CB	44:KK:346:TRP:HZ2	2.27	0.48
45:KL:54:ALA:HA	45:LL:283:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:67:ASP:HB2	45:KL:73:MET:HE2	1.94	0.48
44:KM:240:ALA:HA	44:KM:243:ARG:NH1	2.29	0.48
44:LA:188:ILE:CD1	44:LA:391:LEU:HB3	2.37	0.48
44:LA:217:LEU:H	44:LA:217:LEU:HD12	1.78	0.48
44:LC:407:TRP:CD1	45:LD:255:VAL:HA	2.49	0.48
45:LD:156:ARG:HG2	45:LD:164:MET:HE2	1.95	0.48
44:LE:102:ASN:ND2	44:LE:407:TRP:O	2.36	0.48
44:LG:39:ASP:OD1	44:LG:40:LYS:N	2.47	0.48
44:LG:258:ASN:ND2	44:LG:352:LYS:HD2	2.28	0.48
45:LH:375:GLN:O	45:LH:379:LYS:HG3	2.13	0.48
44:LI:56:THR:HG22	44:LI:60:LYS:O	2.13	0.48
44:LI:102:ASN:HB3	44:LI:105:ARG:HB2	1.95	0.48
44:LI:258:ASN:ND2	44:LI:352:LYS:HG3	2.28	0.48
45:LJ:135:ILE:HG22	45:LJ:137:HIS:ND1	2.28	0.48
45:LJ:173:PRO:CD	45:LJ:380:ARG:HD2	2.44	0.48
44:LK:265:ILE:HG22	44:LK:380:ASN:HD21	1.78	0.48
44:LM:106:GLY:O	44:LM:148:GLY:HA3	2.12	0.48
44:MA:62:VAL:O	44:MA:62:VAL:HG13	2.14	0.48
44:MC:3:GLU:HG3	44:MC:129:CYS:SG	2.53	0.48
45:MD:202:ILE:CD1	45:MD:300:MET:HE3	2.41	0.48
44:ME:176:GLN:HG3	45:MF:331:LEU:CD2	2.43	0.48
44:ME:209:ILE:CG2	44:ME:227:LEU:HD22	2.44	0.48
44:ME:221:ARG:CZ	45:MF:323:THR:HA	2.44	0.48
44:ME:259:LEU:HD21	44:ME:316:SER:HB3	1.96	0.48
44:ME:291:ILE:HG13	44:ME:292:THR:N	2.29	0.48
45:MF:262:ARG:HG3	45:MF:262:ARG:NH1	2.27	0.48
45:MF:362:LYS:N	45:MF:362:LYS:HD3	2.29	0.48
44:MG:407:TRP:HH2	45:MH:258:ILE:HB	1.77	0.48
44:MI:178:SER:OG	44:MI:183:GLU:OE2	2.17	0.48
45:MJ:42:LEU:HD12	45:MJ:356:ILE:HD11	1.94	0.48
45:MJ:311:LEU:HD23	45:MJ:342:VAL:HG11	1.95	0.48
44:MK:101:ASN:CA	44:MK:144:GLY:HA3	2.43	0.48
45:ML:378:PHE:CE2	45:ML:418:LEU:HD23	2.49	0.48
44:MM:204:LEU:HA	44:MM:302:MET:HE3	1.96	0.48
44:NA:115:VAL:O	44:NA:119:LEU:HD23	2.13	0.48
45:NB:263:LEU:HD12	45:NB:263:LEU:N	2.28	0.48
45:NB:287:PRO:O	45:NB:290:THR:HG22	2.14	0.48
44:NC:66:VAL:HG22	44:NC:68:LEU:CD1	2.43	0.48
45:ND:19:LYS:O	45:ND:23:VAL:HG23	2.13	0.48
45:ND:157:GLU:HB3	45:ND:158:GLU:OE1	2.13	0.48
44:NE:269:LEU:CD1	44:NE:301:MET:CE	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:406:HIS:O	44:NE:409:VAL:HG12	2.14	0.48
44:NG:154:LEU:HB3	44:NG:197:HIS:HB3	1.95	0.48
44:NG:238:LEU:HG	44:NG:255:PHE:CE2	2.49	0.48
44:NG:414:GLU:OE1	44:NG:416:GLY:N	2.40	0.48
45:NH:66:MET:HB3	45:NH:91:VAL:HG23	1.94	0.48
44:NI:134:GLY:O	44:NI:135:PHE:HD2	1.96	0.48
44:NI:372:MET:O	44:NI:373:ARG:HG3	2.13	0.48
45:NJ:69:GLU:OE2	45:NJ:72:THR:HG23	2.14	0.48
44:NK:19:ALA:HA	44:NK:22:GLU:OE2	2.13	0.48
45:NL:174:LYS:HE2	45:NL:205:GLU:OE2	2.12	0.48
44:NM:294:SER:HA	44:NM:297:GLU:OE2	2.13	0.48
44:OA:56:THR:HA	44:PA:285:GLN:NE2	2.29	0.48
44:OA:56:THR:HA	44:PA:285:GLN:OE1	2.13	0.48
44:OA:150:GLY:O	44:OA:154:LEU:HG	2.13	0.48
44:OA:287:SER:CB	44:OA:290:GLU:HG2	2.40	0.48
45:OB:15:GLN:O	45:OB:18:ALA:HB3	2.13	0.48
45:OB:267:MET:O	45:OB:368:VAL:HA	2.13	0.48
44:OC:11:GLN:NE2	44:OC:74:VAL:HG11	2.28	0.48
44:OC:93:ILE:CG2	44:OC:117:LEU:HD23	2.43	0.48
44:OC:104:ALA:HA	44:OC:413:MET:HE3	1.93	0.48
44:OC:401:LYS:O	44:OC:401:LYS:HG2	2.14	0.48
45:OD:311:LEU:HD11	45:OD:372:THR:HG23	1.94	0.48
45:OD:321:MET:HB2	45:OD:325:GLU:OE2	2.13	0.48
44:OE:133:GLN:HB2	44:OE:252:ILE:HD11	1.95	0.48
45:OF:35:THR:O	45:OF:37:HIS:ND1	2.45	0.48
45:OF:106:TYR:CZ	45:OF:403:MET:HE1	2.49	0.48
45:OH:122:LYS:HE2	45:PH:291:GLN:OE1	2.13	0.48
45:OH:256:ASN:HD21	45:OH:350:LYS:HB2	1.78	0.48
44:OI:55:GLU:HG3	44:OI:57:GLY:H	1.78	0.48
44:OI:258:ASN:OD1	45:OL:179:VAL:HG12	2.14	0.48
45:OJ:190:HIS:HB3	45:OJ:191:GLN:NE2	2.29	0.48
44:OK:171:ILE:HG13	44:OK:204:LEU:CB	2.44	0.48
45:ON:205:GLU:O	45:ON:208:TYR:HB2	2.14	0.48
45:ON:388:MET:HG2	45:ON:388:MET:O	2.14	0.48
44:PA:181:VAL:HG21	45:PB:256:ASN:CA	2.40	0.48
44:PA:298:PRO:O	44:PA:301:MET:HG2	2.14	0.48
44:PA:353:VAL:HG11	45:PD:177:ASP:CG	2.34	0.48
45:PB:97:ALA:CB	45:PB:143:THR:HB	2.42	0.48
45:PB:367:PHE:CZ	45:PB:369:GLY:HA3	2.49	0.48
44:PE:268:MET:HB2	44:PE:379:SER:O	2.13	0.48
44:PE:301:MET:CE	44:PE:307:PRO:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:321:GLY:CA	44:PE:359:PRO:HB3	2.41	0.48
44:PG:3:GLU:OE2	44:PG:130:THR:N	2.40	0.48
44:PG:5:ILE:HD11	44:PG:132:LEU:HD11	1.95	0.48
44:PG:140:SER:OG	46:PG:501:GTP:O2B	2.23	0.48
44:PG:324:VAL:HG13	44:PG:325:PRO:HD2	1.95	0.48
44:PI:55:GLU:HG3	44:PI:57:GLY:H	1.79	0.48
44:PI:183:GLU:HA	44:PI:186:ASN:OD1	2.14	0.48
44:PI:256:GLN:CG	45:PL:397:TRP:HH2	2.26	0.48
45:PJ:183:TYR:HE2	45:PJ:394:PHE:HB2	1.78	0.48
44:PK:251:ASP:O	44:PK:254:GLU:N	2.46	0.48
45:PL:182:PRO:CB	45:PL:385:PHE:HA	2.43	0.48
45:PL:283:ALA:O	45:PL:288:GLU:HG3	2.13	0.48
44:PM:93:ILE:HG21	44:PM:114:ILE:HG21	1.94	0.48
44:QA:75:ILE:HD12	44:QA:92:LEU:CB	2.29	0.48
44:QA:229:ARG:NE	44:QA:229:ARG:HA	2.28	0.48
44:QA:329:ASN:HB3	45:QB:175:VAL:CG1	2.41	0.48
44:QC:67:PHE:CB	44:QC:92:LEU:HA	2.38	0.48
45:QD:12:CYS:O	45:QD:16:ILE:HD12	2.13	0.48
45:QD:183:TYR:OH	45:QD:388:MET:O	2.32	0.48
45:QD:192:LEU:HD12	45:QD:196:ALA:HB2	1.95	0.48
45:QD:256:ASN:CB	44:QE:181:VAL:HG22	2.42	0.48
44:QE:194:LEU:O	44:QE:198:THR:N	2.44	0.48
44:QG:212:ILE:HD13	44:QG:215:ARG:HH22	1.77	0.48
45:QJ:116:VAL:HA	45:QJ:119:VAL:CG2	2.42	0.48
44:QK:311:LYS:N	44:QK:311:LYS:HD3	2.28	0.48
45:QL:67:ASP:OD1	45:QL:68:LEU:N	2.47	0.48
45:QL:321:MET:CE	45:QL:326:VAL:HG21	2.44	0.48
45:QL:375:GLN:NE2	45:QL:379:LYS:HG3	2.19	0.48
44:QM:310:GLY:HA3	44:QM:383:ALA:CA	2.43	0.48
44:QM:344:VAL:CG1	44:QM:347:CYS:HB2	2.44	0.48
45:RB:178:THR:HG22	45:RB:180:VAL:HG12	1.96	0.48
44:RE:263:PRO:HD3	45:RF:396:HIS:NE2	2.29	0.48
44:RE:313:MET:CE	44:RE:313:MET:HA	2.43	0.48
45:RF:178:THR:HG22	45:RF:180:VAL:HG12	1.94	0.48
45:RF:210:ILE:HD11	45:RF:273:LEU:HD12	1.95	0.48
44:RG:103:PHE:HD1	44:RG:147:SER:CB	2.26	0.48
45:RH:293:MET:HE3	45:RH:294:PHE:HE1	1.78	0.48
45:RH:395:LEU:HG	45:RH:399:THR:HG23	1.94	0.48
44:RI:9:VAL:HA	44:RI:68:LEU:O	2.14	0.48
44:RI:22:GLU:HG3	44:RI:83:TYR:OH	2.14	0.48
44:RI:104:ALA:CB	44:RI:411:GLU:HB2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:168:SER:O	45:RJ:201:VAL:HA	2.13	0.48
44:RK:154:LEU:HD13	44:RK:198:THR:OG1	2.13	0.48
44:RK:268:MET:HG2	44:RK:380:ASN:CG	2.34	0.48
45:RL:58:ARG:O	45:RL:59:TYR:CD1	2.66	0.48
45:RL:405:GLU:C	45:RL:409:THR:HG23	2.34	0.48
44:RM:204:LEU:HD23	44:RM:302:MET:CG	2.43	0.48
45:RN:68:LEU:O	45:RN:96:GLY:N	2.47	0.48
44:SA:14:ILE:CG1	44:SA:75:ILE:HD11	2.43	0.48
44:SA:137:VAL:HG13	44:SA:168:GLY:HA2	1.93	0.48
44:SA:208:ALA:CA	44:SA:304:LYS:HE3	2.44	0.48
45:SB:8:GLN:HB2	45:SB:13:GLY:O	2.13	0.48
45:SB:375:GLN:OE1	45:SB:375:GLN:HA	2.12	0.48
44:SC:212:ILE:HD11	44:SC:300:ASN:C	2.34	0.48
45:SD:32:PRO:HA	45:SD:84:LEU:HD11	1.96	0.48
44:SE:205:ASP:CG	44:SE:303:ALA:HA	2.32	0.48
44:SE:418:PHE:O	44:SE:421:ALA:HB3	2.13	0.48
45:SF:65:LEU:HD22	45:SF:90:PHE:HE1	1.76	0.48
44:SG:91:GLN:HG3	44:SG:92:LEU:HD23	1.94	0.48
44:SG:176:GLN:HG2	44:SG:177:VAL:N	2.27	0.48
44:SG:269:LEU:N	44:SG:379:SER:O	2.44	0.48
45:SH:134:GLN:HB3	45:SH:165:GLU:HB2	1.96	0.48
44:SI:22:GLU:O	44:SI:25:CYS:N	2.47	0.48
44:SI:264:ARG:HG3	44:SI:264:ARG:NH1	2.28	0.48
45:SJ:115:SER:O	45:SJ:118:ASP:N	2.47	0.48
45:SL:171:PRO:O	45:SL:380:ARG:NH2	2.47	0.48
45:SN:105:HIS:O	45:SN:105:HIS:ND1	2.47	0.48
44:TA:18:ASN:O	44:TA:21:TRP:N	2.47	0.48
45:TB:317:PHE:CD1	45:TB:365:VAL:HG12	2.48	0.48
45:TB:423:GLN:O	45:TB:426:GLN:HB3	2.14	0.48
45:TD:22:GLU:HG2	45:TD:81:PHE:CG	2.48	0.48
45:TD:130:LEU:HD21	45:TD:133:PHE:CZ	2.48	0.48
45:TD:245:GLN:OE1	45:TD:245:GLN:HA	2.14	0.48
45:TD:296:ALA:HB2	45:TD:306:ARG:NH2	2.29	0.48
45:TD:303:ALA:CB	45:TD:377:MET:HE3	2.44	0.48
44:TE:148:GLY:O	44:TE:152:LEU:N	2.40	0.48
44:TE:189:LEU:HD11	44:TE:418:PHE:HE1	1.75	0.48
44:TE:260:VAL:HG13	44:TE:260:VAL:O	2.13	0.48
44:TE:288:VAL:CA	44:TE:291:ILE:HG12	2.43	0.48
45:TF:323:THR:HG21	44:TG:224:TYR:CZ	2.49	0.48
45:TF:363:MET:HA	45:TF:363:MET:CE	2.43	0.48
44:TG:136:LEU:CD1	44:TG:167:LEU:HB2	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:136:LEU:CD1	44:TG:167:LEU:HD22	2.37	0.48
45:TH:67:ASP:HB3	45:TH:72:THR:CG2	2.32	0.48
45:TH:322:SER:O	45:TH:326:VAL:HG23	2.13	0.48
44:TI:9:VAL:HG23	44:TI:139:ASN:CB	2.37	0.48
44:TI:346:TRP:CD1	45:TJ:391:ARG:HG3	2.49	0.48
44:TI:439:THR:HG21	45:TJ:390:ARG:CD	2.44	0.48
44:TK:23:LEU:HD11	44:TK:361:THR:CG2	2.44	0.48
44:TK:205:ASP:OD1	44:TK:303:ALA:HA	2.13	0.48
44:TK:317:MET:HE2	44:TK:319:TYR:CE1	2.48	0.48
45:TN:28:HIS:CE1	45:TN:43:GLN:HA	2.49	0.48
45:TN:222:TYR:HD1	45:TN:225:LEU:HD12	1.78	0.48
44:UA:140:SER:CB	46:UA:501:GTP:H1'	2.43	0.48
44:UA:151:SER:HB3	44:UA:193:SER:OG	2.14	0.48
44:UA:260:VAL:HG12	44:UA:262:TYR:O	2.13	0.48
44:UA:274:PRO:HD3	44:UA:291:ILE:CD1	2.43	0.48
46:UA:501:GTP:O2A	46:UA:501:GTP:H8	1.97	0.48
45:UB:135:ILE:HG12	45:UB:152:ILE:HD13	1.95	0.48
44:UC:359:PRO:CB	44:UC:360:PRO:HD2	2.42	0.48
45:UD:11:GLN:HA	45:UD:14:ASN:ND2	2.26	0.48
45:UD:69:GLU:OE1	45:UD:71:GLY:N	2.46	0.48
45:UD:272:PRO:CG	45:UD:361:LEU:HD13	2.44	0.48
44:UE:145:THR:HG22	46:UE:501:GTP:O3B	2.14	0.48
45:UF:163:ILE:HD12	45:UF:250:LEU:CG	2.43	0.48
44:UG:195:LEU:HD12	44:UG:266:HIS:CE1	2.45	0.48
44:UI:135:PHE:CD2	44:UI:166:LYS:HG2	2.32	0.48
45:UJ:91:VAL:HG21	45:UJ:116:VAL:HB	1.96	0.48
45:UJ:132:GLY:HA3	45:UJ:163:ILE:HG12	1.96	0.48
44:UK:53:PHE:CE2	44:UK:63:PRO:HG3	2.48	0.48
44:UK:169:PHE:CE1	44:UK:235:ILE:HD12	2.48	0.48
44:UK:284:GLU:HB2	44:UK:286:LEU:CD2	2.43	0.48
45:UL:323:THR:HG22	45:UL:353:ILE:HG12	1.95	0.48
44:UM:291:ILE:HD12	44:UM:375:VAL:CB	2.43	0.48
44:UM:317:MET:HG2	44:UM:377:MET:CA	2.38	0.48
45:UN:299:MET:HE1	45:UN:305:PRO:CG	2.43	0.48
44:VE:216:ASN:HB3	44:VE:275:ILE:O	2.14	0.48
44:VE:229:ARG:NH1	44:VE:363:VAL:HG21	2.28	0.48
45:VF:143:THR:HG23	45:VF:144:GLY:N	2.29	0.48
44:VG:107:HIS:CE1	44:VG:152:LEU:HD13	2.48	0.48
44:VG:188:ILE:HD12	44:VG:425:LEU:HD12	1.95	0.48
44:VG:202:VAL:HA	44:VG:268:MET:O	2.13	0.48
45:VH:86:ARG:HG2	45:VH:89:ASN:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:173:PRO:HD3	44:VI:187:SER:OG	2.13	0.48
45:VJ:28:HIS:NE2	45:VJ:241:ARG:HD3	2.29	0.48
45:VJ:318:ARG:NH1	45:VJ:358:PRO:HG3	2.29	0.48
44:VK:222:PRO:O	45:VL:322:SER:HB2	2.13	0.48
45:VL:51:TYR:CE1	45:VL:61:PRO:HG3	2.49	0.48
45:VL:309:ARG:CZ	45:VL:342:VAL:HG23	2.44	0.48
45:VL:375:GLN:CD	45:VL:375:GLN:H	2.17	0.48
44:VM:72:PRO:HG3	44:VM:95:GLY:O	2.14	0.48
45:VN:3:GLU:OE1	45:VN:3:GLU:N	2.47	0.48
45:VN:117:LEU:HD11	45:VN:154:LYS:HB3	1.94	0.48
45:VN:324:LYS:HG3	45:VN:325:GLU:H	1.78	0.48
44:WA:111:GLY:CA	44:WA:153:LEU:HG	2.43	0.48
44:WA:115:VAL:HG22	44:WA:119:LEU:HD23	1.95	0.48
44:WA:261:PRO:HA	45:WD:394:PHE:CE1	2.49	0.48
45:WB:166:THR:O	45:WB:199:CYS:HA	2.13	0.48
45:WB:318:ARG:NH1	45:WB:358:PRO:HG3	2.29	0.48
44:WC:3:GLU:N	44:WC:131:GLY:O	2.23	0.48
44:WC:274:PRO:HD3	44:WC:291:ILE:HB	1.96	0.48
45:WD:24:ILE:HG22	45:WD:51:TYR:HE2	1.78	0.48
45:WD:36:TYR:CE2	45:WD:44:LEU:HG	2.49	0.48
45:WD:40:SER:N	45:WD:43:GLN:OE1	2.45	0.48
45:WD:318:ARG:HB2	45:WD:364:ALA:HB3	1.96	0.48
44:WE:144:GLY:HA2	44:WE:147:SER:OG	2.14	0.48
45:WF:207:LEU:CB	45:WF:225:LEU:HD22	2.35	0.48
44:WG:32:PRO:O	44:WG:86:LEU:HD21	2.14	0.48
44:WI:23:LEU:HD23	44:WI:236:SER:HB2	1.96	0.48
44:WI:155:GLU:HA	44:WI:197:HIS:ND1	2.29	0.48
44:WI:320:ARG:HH12	44:WI:360:PRO:HG3	1.77	0.48
45:WJ:263:LEU:HG	45:WJ:422:TYR:CD2	2.49	0.48
45:WL:172:SER:OG	45:WL:205:GLU:HG2	2.13	0.48
45:WL:290:THR:HB	45:WL:329:GLN:NE2	2.26	0.48
44:WM:48:ALA:HB1	44:WM:243:ARG:HB2	1.96	0.48
44:WM:70:LEU:HD13	44:WM:110:ILE:HD11	1.96	0.48
1:6H:242:LYS:HE2	44:FC:322:ASP:C	2.32	0.48
4:0C:90:THR:HB	44:EI:82:THR:OG1	2.13	0.48
5:0D:190:THR:HA	44:FA:219:ILE:HD13	1.91	0.48
4:1C:56:THR:HA	44:EM:219:ILE:CG1	2.30	0.48
4:1C:96:LYS:NZ	35:6R:421:GLN:HE22	2.11	0.48
22:1L:555:LYS:NZ	45:BF:355:ASP:HB3	2.29	0.48
12:1S:311:PRO:C	44:AE:402:ARG:HD2	2.34	0.48
27:1W:164:HIS:CE1	45:LD:361:LEU:HD13	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:2G:1:MET:HI	44:NG:357:TYR:HD2	1.61	0.48
32:2I:115:TYR:O	44:GC:339:ARG:HB2	2.13	0.48
24:2O:318:LEU:HD13	44:VE:362:VAL:O	2.13	0.48
24:2O:424:ALA:HA	44:VA:282:TYR:CE2	2.47	0.48
25:2P:407:GLN:HB3	45:SL:56:GLY:CA	2.43	0.48
13:2T:82:ALA:CB	44:MG:414:GLU:HG2	2.43	0.48
2:3A:59:ALA:HB1	45:MN:1:MET:HE3	1.90	0.48
24:3O:343:ALA:CB	45:UJ:360:GLY:HA2	2.44	0.48
16:3X:8:TYR:HB2	44:MM:357:TYR:CD1	2.47	0.48
37:5D:110:ARG:C	44:NM:282:TYR:HB3	2.34	0.48
39:5I:43:PRO:HB3	39:5I:47:PHE:CE2	2.49	0.48
39:5I:111:PHE:HB2	39:5I:112:PRO:HD3	1.94	0.48
39:5K:24:GLU:O	39:5K:27:LYS:HB3	2.14	0.48
11:5Q:71:ILE:O	11:5Q:150:GLU:HA	2.14	0.48
35:5R:255:VAL:HG23	35:5R:278:TYR:O	2.14	0.48
35:5R:593:ASP:OD2	35:5R:598:TRP:N	2.34	0.48
36:5S:198:LEU:HD22	36:5S:213:ASN:ND2	2.29	0.48
40:6F:19:SER:HB2	40:6F:37:GLN:OE1	2.13	0.48
41:6G:144:LYS:HE2	44:VG:214:ARG:HE	1.78	0.48
41:6G:252:PHE:HZ	45:UD:114:ASP:OD2	1.96	0.48
35:6R:318:TYR:OH	45:CN:273:LEU:CA	2.62	0.48
35:6R:401:VAL:HG21	45:EN:276:ARG:HG3	1.96	0.48
35:7R:129:VAL:HG11	35:7R:144:PHE:HD2	1.79	0.48
35:7R:175:GLU:CD	45:AD:32:PRO:HD2	2.33	0.48
35:7R:428:GLY:CA	35:7R:506:LEU:H	2.27	0.48
44:AA:31:GLN:HB3	44:AA:32:PRO:HD2	1.95	0.48
45:AB:11:GLN:N	48:AB:502:GDP:O1B	2.44	0.48
45:AB:20:PHE:CZ	45:AB:24:ILE:HD11	2.47	0.48
45:AB:36:TYR:CE1	45:AB:44:LEU:HD21	2.48	0.48
45:AB:55:THR:CG2	45:BB:284:LEU:N	2.75	0.48
44:AC:101:ASN:HB2	45:AD:252:LYS:NZ	2.29	0.48
44:AE:305:CYS:O	44:AE:307:PRO:HD3	2.13	0.48
45:AF:130:LEU:HD11	45:AF:133:PHE:CE1	2.42	0.48
45:AH:242:PHE:CG	45:AH:356:ILE:HG13	2.48	0.48
45:AJ:68:LEU:O	45:AJ:68:LEU:HD12	2.12	0.48
44:AK:18:ASN:O	44:AK:18:ASN:ND2	2.47	0.48
45:AL:345:ILE:O	45:AL:345:ILE:HG23	2.14	0.48
44:AM:71:GLU:CD	44:AM:72:PRO:HD2	2.33	0.48
44:AM:177:VAL:HG22	44:AM:207:GLU:HB2	1.95	0.48
44:AM:402:ARG:HB3	44:AM:405:VAL:HG21	1.96	0.48
45:AN:97:ALA:HB2	45:AN:143:THR:HB	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:23:LEU:HD11	44:BA:233:GLN:OE1	2.14	0.48
44:BA:145:THR:HG23	46:BA:501:GTP:PG	2.53	0.48
44:BC:223:THR:O	44:BC:227:LEU:HG	2.13	0.48
45:BD:89:ASN:O	45:BD:91:VAL:HG13	2.13	0.48
45:BD:259:PRO:HG3	45:BD:311:LEU:CD1	2.43	0.48
44:BE:395:PHE:HE2	44:BE:422:ARG:HD3	1.78	0.48
45:BF:292:GLN:HA	45:BF:295:ASP:HB2	1.95	0.48
45:BH:208:TYR:CZ	45:BH:225:LEU:HD11	2.48	0.48
44:BI:49:PHE:O	44:BI:53:PHE:HB2	2.14	0.48
44:BI:208:ALA:HB2	44:BI:304:LYS:HE3	1.95	0.48
44:BI:238:LEU:HA	44:BI:318:MET:CE	2.43	0.48
44:BK:22:GLU:HG3	44:BK:83:TYR:OH	2.13	0.48
45:BL:113:ILE:CA	45:BL:116:VAL:HG12	2.44	0.48
44:BM:139:ASN:O	44:BM:170:THR:HA	2.14	0.48
44:BM:181:VAL:HG12	45:BN:256:ASN:HB3	1.94	0.48
44:CA:372:MET:N	44:CA:372:MET:SD	2.87	0.48
45:CB:211:CYS:O	45:CB:215:LEU:HB2	2.14	0.48
44:CC:219:ILE:HG21	44:CC:222:PRO:HB3	1.95	0.48
44:CE:256:GLN:HA	44:CE:259:LEU:HD23	1.95	0.48
44:CE:402:ARG:HB3	44:CE:405:VAL:HG11	1.95	0.48
45:CF:65:LEU:O	45:CF:66:MET:HE3	2.12	0.48
45:CF:403:MET:HE3	45:CF:404:ASP:N	2.28	0.48
45:CH:306:ARG:HB2	45:CH:306:ARG:CZ	2.44	0.48
45:CH:327:ASP:HB3	44:CI:177:VAL:HG21	1.94	0.48
44:CI:200:VAL:HA	44:CI:266:HIS:HB2	1.95	0.48
45:CJ:284:LEU:HB2	45:CJ:362:LYS:HE3	1.95	0.48
44:CM:3:GLU:O	44:CM:133:GLN:HG2	2.14	0.48
44:CM:360:PRO:CG	44:CM:374:ALA:HB2	2.41	0.48
45:CN:68:LEU:HG	45:CN:96:GLY:CA	2.44	0.48
45:CN:175:VAL:HG23	45:CN:175:VAL:O	2.14	0.48
45:CN:380:ARG:O	45:CN:384:GLN:HG3	2.13	0.48
45:CN:415:MET:O	45:CN:419:VAL:HG23	2.14	0.48
44:DA:317:MET:N	44:DA:352:LYS:O	2.32	0.48
44:DA:439:THR:HG21	45:DB:390:ARG:CD	2.44	0.48
45:DB:266:PHE:HB3	45:DB:369:GLY:O	2.13	0.48
44:DE:16:VAL:HG12	44:DE:228:ASN:ND2	2.29	0.48
45:DF:50:TYR:OH	45:DF:237:THR:HG21	2.13	0.48
45:DF:139:LEU:HG	45:DF:188:SER:HB2	1.95	0.48
45:DF:175:VAL:HG23	45:DF:175:VAL:O	2.14	0.48
45:DF:237:THR:HG23	45:DF:241:ARG:HH21	1.78	0.48
45:DF:330:MET:HE2	45:DF:330:MET:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:217:LEU:O	45:DH:217:LEU:HD12	2.12	0.48
45:DH:270:PHE:HD2	45:DH:273:LEU:CG	2.27	0.48
44:DI:152:LEU:O	44:DI:156:ARG:HG2	2.12	0.48
44:DI:184:PRO:HB2	44:DI:398:MET:HE2	1.96	0.48
44:DI:336:LYS:HD2	44:DI:336:LYS:O	2.13	0.48
45:DJ:423:GLN:NE2	45:DJ:426:GLN:HB3	2.29	0.48
44:DK:1:MET:SD	45:DL:70:PRO:HG2	2.54	0.48
44:DK:195:LEU:HD12	44:DK:196:GLU:N	2.28	0.48
45:DL:68:LEU:O	45:DL:96:GLY:HA2	2.14	0.48
44:DM:37:PRO:O	44:DM:38:SER:CB	2.62	0.48
44:DM:224:TYR:CE1	46:DM:501:GTP:C5	2.98	0.48
45:DN:286:VAL:HG11	45:DN:329:GLN:HG3	1.96	0.48
44:EA:30:ILE:HG23	44:EA:36:MET:HA	1.96	0.48
45:EB:207:LEU:CB	45:EB:225:LEU:HD22	2.43	0.48
44:EC:161:TYR:HB3	44:EC:164:LYS:CG	2.43	0.48
44:EC:182:VAL:O	44:EC:182:VAL:HG22	2.14	0.48
45:ED:257:LEU:HD11	45:ED:314:SER:HB3	1.94	0.48
44:EE:56:THR:O	44:EE:56:THR:HG23	2.13	0.48
44:EE:274:PRO:HD3	44:EE:374:ALA:CB	2.44	0.48
44:EE:427:ALA:O	44:EE:431:ASP:N	2.24	0.48
45:EH:256:ASN:CG	45:EH:350:LYS:HD2	2.33	0.48
45:EJ:321:MET:HB2	44:EK:221:ARG:HH22	1.78	0.48
44:EK:68:LEU:HD22	44:EK:153:LEU:CD1	2.41	0.48
44:EK:104:ALA:H	44:EK:408:TYR:HE2	1.60	0.48
45:EL:302:ALA:CA	45:EL:377:MET:HE1	2.44	0.48
45:EN:28:HIS:CD2	45:EN:241:ARG:NH2	2.82	0.48
45:EN:70:PRO:CG	45:EN:94:GLN:HE22	2.26	0.48
45:EN:200:MET:HE1	45:EN:268:ILE:CG2	2.43	0.48
45:FB:31:ASP:HB3	45:FB:32:PRO:HD2	1.96	0.48
45:FB:67:ASP:O	45:FB:92:PHE:HA	2.13	0.48
45:FB:296:ALA:HA	45:FB:305:PRO:HG2	1.95	0.48
45:FB:334:GLN:HE22	45:FB:347:ASN:N	2.12	0.48
44:FC:175:PRO:HB2	44:FC:176:GLN:OE1	2.13	0.48
44:FC:237:SER:HA	44:FC:320:ARG:NH2	2.28	0.48
45:FD:117:LEU:HD11	45:FD:121:ARG:HH22	1.79	0.48
45:FD:167:PHE:CE1	45:FD:233:MET:SD	3.07	0.48
45:FD:268:ILE:HA	45:FD:367:PHE:O	2.14	0.48
45:FD:376:GLU:CG	45:FD:380:ARG:HH21	2.26	0.48
44:FE:107:HIS:HB3	44:FE:108:TYR:CD1	2.48	0.48
44:FE:137:VAL:HG13	44:FE:137:VAL:O	2.13	0.48
45:FF:387:ALA:O	45:FF:390:ARG:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:153:LEU:O	44:FG:157:LEU:HG	2.13	0.48
44:FG:181:VAL:HG23	44:FG:182:VAL:HG13	1.96	0.48
45:FH:253:LEU:O	45:FH:257:LEU:HD13	2.14	0.48
45:FJ:70:PRO:HD2	45:FJ:71:GLY:N	2.28	0.48
44:FK:23:LEU:CD2	44:FK:236:SER:HB2	2.44	0.48
45:FL:258:ILE:HG13	45:FL:266:PHE:CZ	2.46	0.48
45:FN:257:LEU:C	45:FN:312:THR:HG21	2.33	0.48
44:GA:237:SER:HA	44:GA:320:ARG:HH11	1.78	0.48
45:GB:221:THR:HG23	45:GB:224:ASP:H	1.79	0.48
44:GC:335:ILE:O	44:GC:338:LYS:HB2	2.14	0.48
45:GD:287:PRO:O	45:GD:290:THR:HG22	2.14	0.48
45:GF:143:THR:HG23	45:GF:144:GLY:N	2.28	0.48
44:GG:3:GLU:HG3	44:GG:129:CYS:SG	2.54	0.48
45:GJ:130:LEU:HD23	45:GJ:162:ARG:HD2	1.95	0.48
44:GK:174:SER:HB3	44:GK:207:GLU:HB2	1.95	0.48
45:GL:314:SER:HB2	45:GL:350:LYS:HB3	1.95	0.48
44:GM:88:HIS:NE2	44:GM:90:GLU:OE2	2.47	0.48
45:GN:113:ILE:HG13	45:GN:116:VAL:HG11	1.96	0.48
45:HB:99:ASN:O	45:HB:180:VAL:HG11	2.13	0.48
45:HF:143:THR:HG23	48:HF:502:GDP:O1B	2.14	0.48
44:HG:188:ILE:HG23	44:HG:425:LEU:CD1	2.43	0.48
44:HG:217:LEU:HB3	44:HG:219:ILE:HG13	1.95	0.48
44:HG:322:ASP:OD1	44:HG:373:ARG:HD2	2.14	0.48
45:HH:7:ILE:HD11	45:HH:120:VAL:HG23	1.96	0.48
44:HI:2:ARG:CB	44:HI:133:GLN:HE22	2.26	0.48
44:HK:6:SER:HG	44:HK:65:ALA:HA	1.75	0.48
45:HL:325:GLU:OE2	45:HL:326:VAL:HG23	2.13	0.48
44:HM:170:THR:HG21	44:HM:194:LEU:CD2	2.44	0.48
44:HM:287:SER:CB	44:HM:290:GLU:HG2	2.42	0.48
44:HM:344:VAL:HG11	44:HM:346:TRP:CE2	2.48	0.48
45:HN:388:MET:HE3	45:HN:394:PHE:HD1	1.79	0.48
44:IA:352:LYS:HE2	45:ID:178:THR:HG23	1.95	0.48
45:IB:36:TYR:CD1	45:IB:44:LEU:HD21	2.49	0.48
45:IB:286:VAL:HA	45:IB:289:LEU:CG	2.44	0.48
44:IC:221:ARG:HG3	44:IC:221:ARG:O	2.14	0.48
44:IC:256:GLN:OE1	45:IF:397:TRP:HZ2	1.97	0.48
44:IE:60:LYS:HD3	45:JF:281:TYR:CE1	2.45	0.48
44:IE:71:GLU:OE1	44:IE:73:THR:HB	2.12	0.48
45:IF:135:ILE:CB	45:IF:166:THR:HG22	2.28	0.48
45:IF:221:THR:O	45:IF:224:ASP:HB2	2.13	0.48
44:IG:210:TYR:CD1	44:IG:227:LEU:HD21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:307:PRO:HA	44:IG:383:ALA:HB2	1.96	0.48
45:IH:60:VAL:HG23	45:IH:84:LEU:O	2.13	0.48
44:II:261:PRO:HB3	45:IL:394:PHE:CE1	2.49	0.48
44:II:340:THR:HG23	44:II:341:ILE:CD1	2.21	0.48
45:IJ:318:ARG:HB2	45:IJ:364:ALA:O	2.13	0.48
45:IJ:372:THR:HA	45:IJ:422:TYR:HE1	1.79	0.48
44:IK:104:ALA:HB3	44:IK:411:GLU:HB2	1.94	0.48
45:IL:274:THR:HG21	45:IL:279:GLN:HA	1.94	0.48
44:IM:158:SER:O	44:IM:162:GLY:HA2	2.13	0.48
45:IN:275:SER:O	45:IN:279:GLN:N	2.47	0.48
45:JB:167:PHE:HA	45:JB:200:MET:O	2.14	0.48
45:JB:227:HIS:HA	45:JB:230:SER:OG	2.13	0.48
44:JC:209:ILE:HG22	44:JC:227:LEU:HG	1.94	0.48
45:JD:190:HIS:CG	45:JD:411:ALA:HA	2.48	0.48
44:JE:259:LEU:HD21	44:JE:316:SER:HB2	1.96	0.48
44:JE:268:MET:HB2	44:JE:379:SER:O	2.13	0.48
45:JF:19:LYS:HD2	45:JF:22:GLU:OE1	2.13	0.48
45:JF:136:THR:HG21	45:JF:233:MET:HE3	1.94	0.48
45:JF:141:GLY:HA3	48:JF:501:GDP:O3A	2.14	0.48
44:JG:269:LEU:N	44:JG:379:SER:O	2.42	0.48
44:JG:407:TRP:HE1	45:JH:258:ILE:HD11	1.78	0.48
44:JI:188:ILE:HD11	44:JI:425:LEU:CD2	2.42	0.48
44:JI:414:GLU:HG3	44:JI:416:GLY:H	1.77	0.48
45:JJ:16:ILE:HD13	45:JJ:226:ASN:OD1	2.13	0.48
45:JJ:342:VAL:CG2	45:JJ:345:ILE:HG22	2.42	0.48
44:JK:182:VAL:O	44:JK:182:VAL:HG22	2.14	0.48
45:JL:52:ASN:OD1	45:JL:62:ARG:HD3	2.13	0.48
45:JL:404:ASP:OD1	45:JL:407:GLU:HG3	2.14	0.48
44:JM:18:ASN:O	44:JM:22:GLU:OE1	2.31	0.48
44:JM:195:LEU:HD12	44:JM:267:PHE:CZ	2.49	0.48
45:JN:122:LYS:HZ2	45:KN:291:GLN:HG3	1.79	0.48
44:KA:195:LEU:HD21	44:KA:428:LEU:HD13	1.96	0.48
45:KB:16:ILE:HD11	48:KB:501:GDP:N2	2.27	0.48
45:KB:201:VAL:HG21	45:KB:377:MET:CE	2.44	0.48
45:KD:181:GLU:OE1	45:KD:182:PRO:HG3	2.14	0.48
45:KF:32:PRO:CG	45:KF:81:PHE:HE1	2.26	0.48
45:KF:216:LYS:HB2	45:KF:275:SER:CB	2.41	0.48
45:KF:361:LEU:C	45:KF:362:LYS:HD3	2.34	0.48
44:KI:31:GLN:HE21	44:KI:37:PRO:CB	2.26	0.48
45:KJ:86:ARG:HH22	45:LJ:282:ARG:HD2	1.78	0.48
45:KJ:253:LEU:O	45:KJ:257:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KJ:321:MET:HE1	45:KJ:326:VAL:HG23	1.96	0.48
44:KK:172:TYR:HB2	44:KK:203:MET:HE3	1.95	0.48
45:KL:7:ILE:O	45:KL:135:ILE:HA	2.13	0.48
45:KN:151:LEU:O	45:KN:155:VAL:HG22	2.14	0.48
45:KN:322:SER:N	45:KN:325:GLU:OE2	2.46	0.48
44:LA:188:ILE:HG23	44:LA:425:LEU:HD11	1.95	0.48
44:LC:285:GLN:NE2	44:LC:287:SER:HB2	2.29	0.48
45:LD:3:GLU:CG	45:LD:127:CYS:HB3	2.43	0.48
45:LD:113:ILE:HD13	45:LD:150:LEU:CD2	2.28	0.48
44:LE:204:LEU:HD23	44:LE:302:MET:HG3	1.96	0.48
45:LH:73:MET:HE1	45:LH:92:PHE:HB3	1.96	0.48
44:LI:398:MET:HE3	45:LJ:346:PRO:HD2	1.95	0.48
45:LJ:285:THR:C	45:LJ:287:PRO:HD2	2.34	0.48
45:LL:16:ILE:HD11	45:LL:229:VAL:HG11	1.95	0.48
45:LL:21:TRP:CA	45:LL:24:ILE:HG22	2.41	0.48
45:LL:49:VAL:HG12	45:LL:50:TYR:CD2	2.48	0.48
44:LM:13:GLY:O	44:LM:16:VAL:N	2.47	0.48
45:LN:310:TYR:CE1	45:LN:371:SER:HB2	2.48	0.48
45:LN:372:THR:O	45:LN:375:GLN:HG2	2.13	0.48
44:MA:71:GLU:CD	44:MA:73:THR:H	2.16	0.48
45:MB:4:ILE:HD11	45:MB:50:TYR:OH	2.13	0.48
44:MC:13:GLY:HA2	44:MC:16:VAL:HG12	1.94	0.48
44:MC:195:LEU:O	44:MC:266:HIS:NE2	2.43	0.48
45:MD:103:LYS:HA	45:MD:107:THR:OG1	2.14	0.48
45:MD:390:ARG:CZ	45:MD:390:ARG:HB3	2.44	0.48
44:MI:21:TRP:O	44:MI:25:CYS:N	2.43	0.48
44:MI:62:VAL:O	44:MI:62:VAL:HG13	2.13	0.48
44:MI:141:VAL:O	44:MI:141:VAL:HG22	2.13	0.48
45:MJ:134:GLN:HG3	45:MJ:134:GLN:O	2.14	0.48
45:MJ:215:LEU:HB3	45:MJ:217:LEU:HG	1.96	0.48
45:ML:284:LEU:HD12	45:ML:362:LYS:CE	2.44	0.48
44:MM:316:SER:HB2	44:MM:352:LYS:CG	2.44	0.48
45:MN:7:ILE:O	45:MN:135:ILE:HA	2.14	0.48
45:MN:52:ASN:HD21	45:MN:62:ARG:CG	2.27	0.48
45:MN:99:ASN:HA	45:MN:142:GLY:N	2.29	0.48
45:NB:131:GLN:OE1	45:NB:250:LEU:HD12	2.14	0.48
45:NB:167:PHE:CZ	45:NB:233:MET:HG2	2.49	0.48
45:NB:372:THR:HG21	45:NB:426:GLN:HB2	1.95	0.48
45:ND:209:ASP:O	45:ND:213:ARG:HG3	2.13	0.48
45:ND:268:ILE:HG13	45:ND:300:MET:CE	2.44	0.48
44:NE:137:VAL:CG1	44:NE:168:GLY:HA2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:195:LEU:O	44:NE:266:HIS:NE2	2.47	0.48
44:NE:226:ASN:O	44:NE:230:LEU:HD23	2.14	0.48
44:NE:250:VAL:CG2	44:NE:352:LYS:HZ3	2.27	0.48
44:NE:260:VAL:HB	45:NH:397:TRP:HH2	1.79	0.48
44:NE:343:PHE:CZ	44:NE:351:PHE:HE1	2.31	0.48
45:NF:45:GLU:O	45:NF:46:ARG:HD3	2.13	0.48
45:NF:112:LEU:HD23	45:NF:147:MET:HE1	1.96	0.48
45:NF:217:LEU:HG	45:NF:220:PRO:HD3	1.94	0.48
45:NF:317:PHE:HB3	45:NF:321:MET:HE2	1.95	0.48
44:NG:161:TYR:HB3	44:NG:164:LYS:NZ	2.29	0.48
44:NG:362:VAL:HG13	44:NG:362:VAL:O	2.14	0.48
45:NH:100:ASN:CG	45:NH:103:LYS:HB2	2.34	0.48
45:NH:228:LEU:HD11	45:NH:273:LEU:HD11	1.95	0.48
45:NJ:60:VAL:HG11	45:NJ:86:ARG:NE	2.28	0.48
45:NJ:116:VAL:CG1	45:NJ:151:LEU:HD21	2.43	0.48
45:NJ:130:LEU:HD21	45:NJ:133:PHE:CE1	2.48	0.48
45:NJ:271:ALA:HB2	45:NJ:298:ASN:HD21	1.79	0.48
45:NJ:329:GLN:OE1	45:NJ:329:GLN:HA	2.13	0.48
44:NK:237:SER:HB3	44:NK:376:CYS:CB	2.43	0.48
44:NK:325:PRO:HG2	45:NN:222:TYR:CE1	2.49	0.48
44:NM:101:ASN:HA	44:NM:144:GLY:N	2.24	0.48
44:NM:315:CYS:O	44:NM:352:LYS:HB3	2.14	0.48
45:NN:175:VAL:O	45:NN:175:VAL:HG23	2.13	0.48
45:NN:215:LEU:HD21	45:NN:273:LEU:HD22	1.96	0.48
45:NN:336:LYS:HE3	45:NN:337:ASN:OD1	2.13	0.48
44:OC:27:GLU:OE1	44:OC:243:ARG:NH2	2.46	0.48
44:OC:138:PHE:CE1	44:OC:169:PHE:HB2	2.49	0.48
44:OE:407:TRP:HE1	45:OF:255:VAL:HA	1.78	0.48
44:OG:132:LEU:CD2	44:OG:164:LYS:HG2	2.44	0.48
44:OI:17:GLY:HA2	44:OI:20:CYS:SG	2.54	0.48
44:OI:276:ILE:HG21	44:OI:281:ALA:CA	2.44	0.48
45:OJ:122:LYS:NZ	45:PJ:291:GLN:HG2	2.28	0.48
44:OK:93:ILE:HG12	44:OK:117:LEU:CD2	2.43	0.48
44:OK:136:LEU:CD2	44:OK:167:LEU:HD12	2.44	0.48
44:OK:274:PRO:HD3	44:OK:291:ILE:HD11	1.96	0.48
45:OL:145:SER:O	45:OL:149:THR:HG23	2.14	0.48
45:OL:322:SER:OG	45:OL:323:THR:N	2.47	0.48
44:OM:99:ALA:HB2	44:OM:145:THR:HB	1.96	0.48
44:OM:115:VAL:HG21	44:OM:152:LEU:CG	2.37	0.48
44:OM:226:ASN:O	44:OM:230:LEU:HD13	2.14	0.48
44:OM:288:VAL:HA	44:OM:291:ILE:CD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:164:MET:HE3	45:ON:196:ALA:HA	1.95	0.48
45:ON:245:GLN:C	45:ON:246:LEU:HD12	2.34	0.48
45:ON:416:ASN:O	45:ON:419:VAL:HG12	2.14	0.48
44:PA:7:ILE:CB	44:PA:137:VAL:HG23	2.44	0.48
44:PA:265:ILE:HG12	44:PA:432:TYR:CE1	2.48	0.48
44:PA:404:PHE:CE1	45:PB:259:PRO:HA	2.48	0.48
45:PB:167:PHE:CE2	45:PB:200:MET:HE2	2.49	0.48
45:PB:272:PRO:HB3	45:PB:289:LEU:HD21	1.95	0.48
45:PD:86:ARG:NH2	45:QB:282:ARG:HG3	2.28	0.48
45:PD:269:GLY:CA	45:PD:367:PHE:HB3	2.43	0.48
45:PF:4:ILE:CD1	45:PF:131:GLN:HB3	2.42	0.48
45:PF:87:PRO:C	45:PF:90:PHE:H	2.17	0.48
45:PF:296:ALA:HA	45:PF:299:MET:HE2	1.92	0.48
44:PG:169:PHE:CE1	44:PG:202:VAL:HG21	2.49	0.48
45:PH:183:TYR:O	45:PH:186:THR:N	2.47	0.48
45:PJ:2:ARG:CZ	45:PJ:240:LEU:HG	2.43	0.48
45:PJ:200:MET:CE	45:PJ:266:PHE:HB2	2.44	0.48
44:PK:167:LEU:HD23	44:PK:167:LEU:H	1.77	0.48
45:PL:378:PHE:CD2	45:PL:419:VAL:HG22	2.49	0.48
45:PN:119:VAL:O	45:PN:122:LYS:HB3	2.14	0.48
45:PN:200:MET:HG3	45:PN:266:PHE:HB2	1.95	0.48
44:QC:219:ILE:HG23	44:QC:222:PRO:CG	2.44	0.48
44:QE:328:VAL:HG12	44:QE:332:ILE:CG1	2.44	0.48
44:QG:420:GLU:O	44:QG:423:GLU:N	2.47	0.48
45:QH:135:ILE:CG1	45:QH:152:ILE:HD11	2.37	0.48
45:QJ:15:GLN:OE1	45:QJ:15:GLN:HA	2.13	0.48
44:QK:11:GLN:HB3	46:QK:501:GTP:PB	2.53	0.48
44:QK:208:ALA:HB3	44:QK:302:MET:O	2.14	0.48
45:QL:315:ALA:C	45:QL:316:LEU:HD12	2.34	0.48
45:QL:316:LEU:O	45:QL:365:VAL:HA	2.13	0.48
44:QM:50:ASN:HA	44:QM:53:PHE:O	2.14	0.48
44:QM:99:ALA:HB3	44:QM:145:THR:CG2	2.44	0.48
44:QM:167:LEU:HD11	44:QM:252:ILE:HG23	1.94	0.48
44:QM:256:GLN:CG	44:QM:260:VAL:HB	2.35	0.48
45:QN:4:ILE:CG2	45:QN:131:GLN:HB3	2.44	0.48
45:QN:198:GLU:OE2	45:QN:254:ALA:HB2	2.14	0.48
44:RA:21:TRP:CE3	44:RA:24:PHE:HD2	2.32	0.48
44:RA:115:VAL:HG22	44:RA:156:ARG:HD2	1.94	0.48
45:RB:1:MET:SD	45:RB:2:ARG:HB3	2.54	0.48
45:RB:199:CYS:O	45:RB:265:PHE:HA	2.13	0.48
44:RC:172:TYR:HD2	44:RC:203:MET:SD	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RD:166:THR:HG21	45:RD:192:LEU:HD11	1.96	0.48
44:RE:105:ARG:HH21	44:RE:110:ILE:HG21	1.78	0.48
44:RG:163:LYS:O	44:RG:163:LYS:HG2	2.13	0.48
44:RG:257:THR:HA	45:RH:397:TRP:HE1	1.78	0.48
45:RJ:156:ARG:HD3	45:RJ:195:ASN:CB	2.43	0.48
45:RJ:324:LYS:CG	44:RK:222:PRO:O	2.62	0.48
44:RK:54:SER:OG	44:RK:62:VAL:HB	2.12	0.48
44:RK:317:MET:HE1	44:RK:377:MET:HA	1.94	0.48
44:RK:325:PRO:HG2	45:RL:222:TYR:CE2	2.49	0.48
45:RL:245:GLN:C	45:RL:246:LEU:HD12	2.33	0.48
45:RL:325:GLU:O	45:RL:328:GLU:HG2	2.13	0.48
45:RL:374:ILE:HD11	45:RL:422:TYR:CZ	2.47	0.48
44:SA:98:ASP:OD1	44:SA:99:ALA:N	2.47	0.48
44:SA:268:MET:HB2	44:SA:380:ASN:HA	1.96	0.48
45:SB:22:GLU:CA	45:SB:25:SER:HB2	2.41	0.48
45:SB:134:GLN:O	45:SB:134:GLN:HG3	2.14	0.48
45:SD:211:CYS:SG	45:SD:212:PHE:N	2.87	0.48
45:SH:1:MET:H1	45:SH:46:ARG:HH11	1.60	0.48
45:SH:133:PHE:HB2	45:SH:164:MET:SD	2.53	0.48
45:SH:272:PRO:HD3	45:SH:289:LEU:CD2	2.44	0.48
44:SI:62:VAL:HG13	44:SI:62:VAL:O	2.14	0.48
44:SI:66:VAL:HG13	44:SI:66:VAL:O	2.13	0.48
44:SI:325:PRO:HG2	45:SJ:222:TYR:CZ	2.49	0.48
44:SK:145:THR:HG22	46:SK:501:GTP:O3G	2.14	0.48
44:SK:326:LYS:HD3	45:SL:212:PHE:CZ	2.41	0.48
45:SL:87:PRO:HD2	45:TL:281:TYR:HD2	1.78	0.48
44:SM:301:MET:SD	44:SM:303:ALA:O	2.71	0.48
44:TA:7:ILE:HD12	44:TA:122:ILE:HD11	1.95	0.48
45:TB:16:ILE:HD13	45:TB:226:ASN:OD1	2.13	0.48
45:TB:200:MET:SD	45:TB:300:MET:HE1	2.53	0.48
45:TB:246:LEU:HD11	44:TC:224:TYR:CZ	2.49	0.48
44:TC:205:ASP:OD1	44:TC:208:ALA:HB2	2.13	0.48
44:TE:191:THR:O	44:TE:195:LEU:HB2	2.14	0.48
44:TE:233:GLN:HA	44:TE:233:GLN:OE1	2.13	0.48
44:TG:257:THR:HG22	45:TH:397:TRP:CZ3	2.49	0.48
45:TH:1:MET:HE1	44:TI:96:LYS:HB3	1.95	0.48
44:TI:138:PHE:HE1	44:TI:169:PHE:CD2	2.32	0.48
45:TJ:190:HIS:ND1	45:TJ:411:ALA:HA	2.28	0.48
45:TJ:257:LEU:CG	45:TJ:370:ASN:HD21	2.17	0.48
44:TK:332:ILE:HD12	44:TK:332:ILE:H	1.77	0.48
44:TM:319:TYR:HA	44:TM:375:VAL:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:350:GLY:CA	45:TN:179:VAL:HG11	2.44	0.48
45:TN:51:TYR:O	45:TN:62:ARG:HD3	2.14	0.48
44:UA:328:VAL:O	44:UA:332:ILE:HG12	2.14	0.48
45:UD:286:VAL:O	45:UD:290:THR:HB	2.14	0.48
45:UF:184:ASN:HA	45:UF:187:LEU:HB2	1.94	0.48
44:UG:352:LYS:HD2	45:UH:177:ASP:O	2.14	0.48
45:UH:174:LYS:HB2	45:UH:205:GLU:OE1	2.13	0.48
44:UM:3:GLU:HG2	44:UM:64:ARG:NH2	2.29	0.48
45:UN:250:LEU:HA	45:UN:253:LEU:HB2	1.95	0.48
45:UN:280:GLN:HB2	45:UN:281:TYR:CD2	2.49	0.48
44:VA:210:TYR:CG	45:VB:324:LYS:HD2	2.49	0.48
44:VA:221:ARG:CD	45:VB:322:SER:HB3	2.44	0.48
45:VB:2:ARG:NH1	45:VB:240:LEU:HG	2.29	0.48
45:VB:8:GLN:HE21	45:VB:65:LEU:CG	2.22	0.48
45:VD:16:ILE:HA	45:VD:226:ASN:OD1	2.14	0.48
45:VD:304:ASP:HB3	45:VD:307:HIS:CG	2.48	0.48
44:VE:2:ARG:HB2	44:VE:133:GLN:HE22	1.78	0.48
45:VF:28:HIS:ND1	45:VF:43:GLN:O	2.42	0.48
44:VI:169:PHE:HE1	44:VI:202:VAL:HG21	1.79	0.48
44:VI:188:ILE:HG23	44:VI:425:LEU:HD11	1.95	0.48
45:VJ:178:THR:HG21	45:VJ:180:VAL:HG12	1.96	0.48
44:VK:3:GLU:CD	44:VK:131:GLY:H	2.16	0.48
44:VM:390:ARG:HG3	44:VM:391:LEU:N	2.28	0.48
45:VN:201:VAL:HG13	45:VN:301:CYS:SG	2.54	0.48
45:VN:237:THR:OG1	45:VN:240:LEU:HD22	2.13	0.48
45:VN:342:VAL:HG22	45:VN:343:GLU:H	1.79	0.48
44:WA:395:PHE:CE1	44:WA:422:ARG:HD3	2.49	0.48
45:WD:10:GLY:HA2	48:WD:501:GDP:O2B	2.13	0.48
45:WD:239:CYS:SG	45:WD:248:SER:OG	2.65	0.48
45:WD:335:ASN:HA	45:WD:338:SER:OG	2.14	0.48
44:WE:13:GLY:O	44:WE:16:VAL:HG22	2.14	0.48
44:WG:2:ARG:NH2	44:WG:242:LEU:O	2.46	0.48
44:WG:247:ALA:N	44:WG:357:TYR:OH	2.46	0.48
44:WG:354:GLY:C	44:WG:355:ILE:HD12	2.33	0.48
45:WH:285:THR:HA	45:WH:363:MET:HE1	1.95	0.48
44:WM:294:SER:HA	44:WM:297:GLU:CG	2.28	0.48
44:WM:417:GLU:O	44:WM:420:GLU:HG2	2.14	0.48
45:WN:267:MET:CE	45:WN:371:SER:HB3	2.44	0.48
2:0A:34:LEU:HD23	45:MB:356:ILE:HG23	1.96	0.48
2:0A:53:HIS:HB2	44:MA:84:ARG:NH1	2.28	0.48
12:0S:106:THR:OG1	44:MA:109:THR:HG21	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:198:ARG:HB3	44:IG:372:MET:SD	2.54	0.48
22:1L:157:PRO:HA	44:CI:221:ARG:HH21	1.77	0.48
26:1R:93:VAL:HG13	44:AC:370:LYS:CE	2.44	0.48
2:2A:33:GLN:NE2	45:MJ:357:PRO:HG2	2.28	0.48
32:2I:45:LYS:HD3	45:GH:332:ASN:ND2	2.29	0.48
21:2K:266:LEU:HD11	44:GK:372:MET:CE	2.39	0.48
26:2R:119:ARG:NH2	45:BJ:276:ARG:HE	2.11	0.48
15:2V:46:PRO:HG2	44:LE:114:ILE:HD12	1.95	0.48
6:3E:53:LYS:HE2	35:6R:382:TYR:CE1	2.48	0.48
31:3H:187:LEU:CG	45:AH:276:ARG:HH22	2.26	0.48
32:3I:279:MET:HG3	45:GJ:218:THR:CG2	2.43	0.48
26:3R:449:TYR:OH	44:EK:47:ASP:OD1	2.22	0.48
37:5B:40:VAL:HG13	44:KC:431:ASP:CG	2.35	0.48
37:5D:113:VAL:HG22	44:NM:286:LEU:HD12	1.94	0.48
38:5E:206:VAL:HG21	44:LC:426:ALA:HB1	1.94	0.48
38:5H:75:PHE:HB3	45:KN:421:GLU:OE2	2.14	0.48
40:6F:137:MET:O	40:6F:137:MET:HG3	2.13	0.48
11:6Q:47:LEU:HD23	11:6Q:48:GLU:N	2.29	0.48
35:7R:127:ILE:HG21	35:7R:150:ILE:HD11	1.96	0.48
42:8L:132:UNK:O	42:8L:135:UNK:N	2.47	0.48
44:AA:14:ILE:CD1	44:AA:69:ASP:HB2	2.44	0.48
44:AA:27:GLU:HG2	44:AA:27:GLU:O	2.14	0.48
45:AB:287:PRO:HA	45:AB:329:GLN:OE1	2.13	0.48
44:AC:60:LYS:HD3	44:BC:283:HIS:CD2	2.49	0.48
45:AD:54:ALA:CB	45:BD:283:ALA:HB2	2.43	0.48
45:AD:130:LEU:HB3	45:AD:162:ARG:CD	2.42	0.48
45:AD:183:TYR:O	45:AD:187:LEU:HD13	2.13	0.48
44:AE:8:HIS:CD2	44:AE:17:GLY:HA3	2.48	0.48
44:AE:63:PRO:HG3	44:AE:87:PHE:HD1	1.78	0.48
45:AF:52:ASN:HB2	45:AF:62:ARG:CZ	2.43	0.48
44:AG:363:VAL:HG22	44:AG:364:PRO:HD2	1.96	0.48
45:AH:259:PRO:HG2	45:AH:311:LEU:CD2	2.44	0.48
45:AH:293:MET:HE3	45:AH:367:PHE:HD1	1.78	0.48
44:AI:287:SER:O	44:AI:291:ILE:HG23	2.13	0.48
45:AJ:130:LEU:HD23	45:AJ:131:GLN:N	2.28	0.48
45:AJ:403:MET:HG3	45:AJ:407:GLU:OE2	2.14	0.48
44:AM:171:ILE:HD13	44:AM:204:LEU:HB2	1.96	0.48
44:AM:175:PRO:HG2	44:AM:304:LYS:HG2	1.95	0.48
44:AM:340:THR:HG23	44:AM:341:ILE:HG13	1.96	0.48
44:AM:425:LEU:HD12	44:AM:426:ALA:N	2.28	0.48
44:AM:437:ILE:HG13	44:AM:437:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:109:THR:HG22	44:BA:110:ILE:HG23	1.96	0.48
44:BA:387:VAL:O	44:BA:391:LEU:HD13	2.14	0.48
44:BC:223:THR:OG1	45:BD:323:THR:HG23	2.14	0.48
45:BD:101:TRP:CD1	45:BD:105:HIS:HB2	2.49	0.48
45:BD:204:ASN:HA	45:BD:207:LEU:HD12	1.95	0.48
45:BF:177:ASP:N	45:BF:181:GLU:OE2	2.43	0.48
45:BJ:203:ASP:OD2	45:BJ:302:ALA:N	2.26	0.48
45:BJ:293:MET:SD	45:BJ:365:VAL:HG21	2.53	0.48
45:BL:80:PRO:O	45:BL:81:PHE:HB2	2.13	0.48
45:BL:150:LEU:O	45:BL:150:LEU:HD12	2.14	0.48
45:BN:314:SER:O	45:BN:368:VAL:HG22	2.14	0.48
44:CA:104:ALA:HB1	44:CA:411:GLU:CB	2.44	0.48
44:CA:317:MET:HE1	44:CA:377:MET:CA	2.44	0.48
44:CC:67:PHE:C	44:CC:68:LEU:HD12	2.34	0.48
44:CC:169:PHE:CE2	44:CC:235:ILE:HD12	2.49	0.48
44:CC:260:VAL:O	44:CC:260:VAL:HG23	2.14	0.48
45:CD:1:MET:HG2	45:CD:2:ARG:N	2.28	0.48
45:CD:68:LEU:HG	45:CD:96:GLY:HA2	1.95	0.48
44:CE:156:ARG:O	44:CE:159:VAL:HG12	2.13	0.48
44:CE:346:TRP:CD1	45:CF:391:ARG:HG3	2.49	0.48
45:CF:58:ARG:HG3	45:CF:58:ARG:O	2.13	0.48
45:CF:398:TYR:O	45:CF:403:MET:HB3	2.13	0.48
45:CH:19:LYS:HA	45:CH:22:GLU:HB2	1.96	0.48
45:CH:272:PRO:C	45:CH:273:LEU:HD22	2.35	0.48
45:CJ:20:PHE:O	45:CJ:24:ILE:HG12	2.13	0.48
45:CL:191:GLN:O	45:CL:194:GLU:N	2.43	0.48
45:CL:268:ILE:HD11	45:CL:300:MET:HG2	1.95	0.48
45:CN:10:GLY:HA2	45:CN:67:ASP:OD2	2.14	0.48
45:CN:52:ASN:HB2	45:CN:60:VAL:HG12	1.95	0.48
45:CN:101:TRP:HD1	45:CN:145:SER:HG	1.58	0.48
45:CN:208:TYR:HB3	45:CN:212:PHE:CE2	2.49	0.48
44:DA:246:GLY:HA3	44:DA:355:ILE:O	2.13	0.48
45:DB:310:TYR:HD1	45:DB:371:SER:HB2	1.77	0.48
45:DB:377:MET:O	45:DB:380:ARG:HG2	2.13	0.48
44:DE:172:TYR:HD2	44:DE:203:MET:CE	2.27	0.48
44:DG:141:VAL:HG11	44:DG:173:PRO:HD3	1.96	0.48
44:DG:264:ARG:HE	44:DG:431:ASP:CG	2.17	0.48
45:DH:5:VAL:HG22	45:DH:133:PHE:CE1	2.49	0.48
45:DH:309:ARG:NH2	45:DH:426:GLN:O	2.40	0.48
45:DJ:266:PHE:HA	45:DJ:369:GLY:O	2.14	0.48
45:DJ:293:MET:HE3	45:DJ:294:PHE:HD1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:89:PRO:CG	44:EK:280:LYS:HE2	2.44	0.48
44:DK:261:PRO:HG2	44:DK:313:MET:HG3	1.96	0.48
44:DM:251:ASP:O	44:DM:254:GLU:N	2.47	0.48
44:DM:276:ILE:HG12	44:DM:281:ALA:HB2	1.96	0.48
45:DN:358:PRO:HG2	45:DN:364:ALA:HB2	1.96	0.48
44:EA:7:ILE:HD12	44:EA:66:VAL:HG11	1.95	0.48
44:EA:290:GLU:HA	44:EA:293:ASN:HB2	1.95	0.48
45:EB:260:PHE:HA	44:EC:406:HIS:CE1	2.49	0.48
45:EB:269:GLY:HA3	45:EB:298:ASN:OD1	2.14	0.48
44:EC:74:VAL:HG13	44:EC:75:ILE:N	2.29	0.48
45:ED:66:MET:CE	45:ED:92:PHE:HA	2.44	0.48
45:ED:117:LEU:HD13	45:ED:154:LYS:CE	2.44	0.48
44:EE:316:SER:O	44:EE:378:ILE:N	2.34	0.48
45:EF:4:ILE:HD11	45:EF:50:TYR:OH	2.14	0.48
45:EF:62:ARG:HD3	45:EF:123:GLU:HG3	1.94	0.48
45:EF:105:HIS:CE1	45:EF:150:LEU:HD12	2.49	0.48
44:EG:277:SER:C	44:EG:369:ALA:HB2	2.34	0.48
45:EH:204:ASN:O	45:EH:207:LEU:N	2.47	0.48
45:EJ:238:CYS:HB2	45:EJ:318:ARG:CZ	2.43	0.48
44:EK:248:LEU:HD23	44:EK:355:ILE:CD1	2.44	0.48
44:FA:101:ASN:HA	44:FA:144:GLY:HA3	1.95	0.48
44:FA:138:PHE:HE2	44:FA:235:ILE:HG12	1.79	0.48
44:FA:182:VAL:C	44:FA:184:PRO:HD2	2.33	0.48
44:FA:385:ALA:CA	44:FA:388:PHE:HB2	2.43	0.48
45:FB:323:THR:HA	45:FB:326:VAL:CG2	2.43	0.48
44:FC:313:MET:HG3	44:FC:314:ALA:H	1.78	0.48
45:FD:8:GLN:CG	45:FD:14:ASN:HA	2.42	0.48
45:FD:269:GLY:N	45:FD:367:PHE:O	2.41	0.48
45:FD:388:MET:HE2	45:FD:394:PHE:HD1	1.79	0.48
44:FE:89:PRO:HG2	44:GE:280:LYS:HB2	1.96	0.48
45:FF:187:LEU:HD11	45:FF:408:PHE:CE1	2.49	0.48
45:FF:256:ASN:C	45:FF:257:LEU:HD12	2.34	0.48
45:FH:192:LEU:CD1	45:FH:196:ALA:HB2	2.44	0.48
45:FH:262:ARG:HD3	45:FH:418:LEU:HD12	1.96	0.48
45:GB:232:ALA:HB1	45:GB:268:ILE:HG12	1.95	0.48
44:GC:168:GLY:O	44:GC:201:ALA:HA	2.14	0.48
45:GF:341:PHE:HB3	45:GF:348:ASN:HD21	1.79	0.48
44:GG:100:ALA:O	44:GG:101:ASN:HB2	2.14	0.48
45:GH:40:SER:N	45:GH:43:GLN:OE1	2.42	0.48
45:GH:372:THR:HA	45:GH:422:TYR:CE2	2.46	0.48
44:GI:105:ARG:HD2	45:GJ:251:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:2:ARG:O	44:GK:51:THR:HA	2.13	0.48
44:GK:384:ILE:O	44:GK:387:VAL:HG22	2.14	0.48
45:GL:30:ILE:CD1	45:GL:36:TYR:HD2	2.27	0.48
45:GL:69:GLU:OE1	45:GL:71:GLY:N	2.47	0.48
45:GL:313:ALA:HB1	45:GL:369:GLY:HA2	1.95	0.48
44:HA:413:MET:CE	44:HA:413:MET:HA	2.44	0.48
45:HB:10:GLY:O	45:HB:14:ASN:N	2.34	0.48
45:HB:285:THR:O	45:HB:288:GLU:N	2.44	0.48
44:HC:141:VAL:HG22	44:HC:141:VAL:O	2.13	0.48
44:HC:258:ASN:O	44:HC:259:LEU:HD23	2.14	0.48
44:HC:293:ASN:HD21	44:HC:334:THR:HG21	1.79	0.48
44:HC:329:ASN:HB3	45:HF:175:VAL:HG11	1.95	0.48
44:HE:401:LYS:HD3	45:HF:344:TRP:CZ3	2.49	0.48
45:HF:32:PRO:HG3	45:HF:81:PHE:CZ	2.49	0.48
45:HF:215:LEU:HD11	45:HF:228:LEU:HD11	1.96	0.48
44:HG:113:GLU:O	44:HG:114:ILE:HD13	2.14	0.48
45:HH:7:ILE:HB	45:HH:135:ILE:HD13	1.95	0.48
45:HH:286:VAL:HG21	45:HH:325:GLU:CG	2.43	0.48
44:HK:413:MET:SD	44:HK:417:GLU:HB2	2.53	0.48
45:HL:12:CYS:O	45:HL:16:ILE:HG12	2.14	0.48
45:HL:180:VAL:HG21	45:HL:398:TYR:OH	2.14	0.48
44:HM:137:VAL:O	44:HM:168:GLY:HA2	2.14	0.48
45:HN:42:LEU:HA	45:HN:45:GLU:CD	2.35	0.48
45:HN:360:GLY:C	45:HN:361:LEU:HD22	2.33	0.48
44:IA:236:SER:O	44:IA:240:ALA:N	2.47	0.48
45:ID:105:HIS:CD2	45:ID:149:THR:HG23	2.49	0.48
45:ID:316:LEU:CA	45:ID:352:SER:HB2	2.23	0.48
44:II:296:PHE:HZ	44:II:315:CYS:HG	1.61	0.48
45:IJ:309:ARG:N	45:IJ:372:THR:HG1	2.09	0.48
44:IK:362:VAL:O	44:IK:362:VAL:HG13	2.14	0.48
45:IL:304:ASP:OD1	45:IL:306:ARG:HG2	2.14	0.48
44:IM:293:ASN:O	44:IM:296:PHE:N	2.46	0.48
45:IN:66:MET:HB3	45:IN:147:MET:HE1	1.96	0.48
45:IN:167:PHE:CE1	45:IN:233:MET:HE1	2.48	0.48
45:JB:314:SER:CA	45:JB:350:LYS:HB3	2.44	0.48
45:JD:166:THR:HG21	45:JD:196:ALA:HB1	1.96	0.48
45:JD:267:MET:HE2	45:JD:301:CYS:HB2	1.96	0.48
45:JD:330:MET:O	45:JD:333:VAL:HG22	2.14	0.48
44:JE:224:TYR:CE2	45:JF:246:LEU:HD11	2.40	0.48
44:JE:307:PRO:HB2	44:JE:312:TYR:OH	2.14	0.48
45:JF:60:VAL:HG13	45:JF:60:VAL:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:63:ALA:O	45:JF:64:ILE:HD13	2.13	0.48
45:JH:197:ASP:O	45:JH:264:HIS:HB2	2.13	0.48
44:JI:54:SER:HB3	44:JI:64:ARG:NE	2.29	0.48
44:JI:335:ILE:HD12	44:JI:338:LYS:HE3	1.96	0.48
45:JJ:289:LEU:HD11	45:JJ:363:MET:HB3	1.96	0.48
45:JJ:355:ASP:O	45:JJ:356:ILE:HD13	2.14	0.48
45:JL:170:VAL:CG2	45:JL:171:PRO:HD2	2.42	0.48
45:JL:377:MET:O	45:JL:380:ARG:HG2	2.13	0.48
44:JM:70:LEU:HD13	44:JM:110:ILE:HD12	1.94	0.48
44:JM:298:PRO:HG3	44:JM:308:ARG:NH2	2.29	0.48
45:JN:134:GLN:O	45:JN:134:GLN:HG2	2.13	0.48
45:JN:234:SER:O	45:JN:241:ARG:NH2	2.47	0.48
45:JN:294:PHE:CD2	45:JN:333:VAL:HG21	2.49	0.48
45:KB:28:HIS:HB2	45:KB:30:ILE:HD12	1.96	0.48
45:KB:172:SER:HB2	45:KB:174:LYS:NZ	2.28	0.48
44:KE:209:ILE:HG22	44:KE:227:LEU:CD2	2.44	0.48
45:KF:380:ARG:HG3	45:KF:381:VAL:H	1.77	0.48
44:KK:14:ILE:CD1	44:KK:74:VAL:HG21	2.43	0.48
44:KK:149:LEU:O	44:KK:153:LEU:HG	2.14	0.48
45:KL:344:TRP:CZ3	45:KL:345:ILE:HD11	2.49	0.48
45:KN:137:HIS:CE1	45:KN:152:ILE:HD11	2.49	0.48
45:KN:186:THR:C	45:KN:189:VAL:H	2.17	0.48
44:LA:98:ASP:OD1	44:LA:99:ALA:N	2.43	0.48
44:LA:395:PHE:CZ	44:LA:418:PHE:HD2	2.32	0.48
45:LB:418:LEU:O	45:LB:422:TYR:N	2.47	0.48
44:LC:271:SER:CB	44:LC:377:MET:HE3	2.43	0.48
44:LE:88:HIS:ND1	44:LE:90:GLU:HG2	2.29	0.48
44:LE:156:ARG:HG2	44:LE:156:ARG:HH11	1.79	0.48
45:LF:245:GLN:HB2	45:LF:353:ILE:HB	1.95	0.48
44:LG:2:ARG:O	44:LG:2:ARG:CG	2.60	0.48
45:LH:182:PRO:HG2	45:LH:388:MET:SD	2.54	0.48
45:LJ:53:GLU:O	45:MJ:283:ALA:HB2	2.14	0.48
44:LM:88:HIS:HE1	44:LM:90:GLU:HG2	1.77	0.48
44:LM:241:SER:HB2	44:LM:250:VAL:H	1.78	0.48
44:LM:262:TYR:HE2	44:LM:435:VAL:HG21	1.78	0.48
44:LM:425:LEU:O	44:LM:429:GLU:OE1	2.32	0.48
45:LN:110:ALA:O	45:LN:113:ILE:HG22	2.13	0.48
45:LN:207:LEU:CD2	45:LN:228:LEU:HD23	2.44	0.48
45:MB:83:GLN:OE1	45:MB:83:GLN:HA	2.14	0.48
45:MB:285:THR:O	45:MB:288:GLU:HB2	2.14	0.48
45:MB:342:VAL:HG13	45:MB:345:ILE:CG2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MC:66:VAL:HG22	44:MC:68:LEU:CD2	2.44	0.48
44:MC:209:ILE:CG2	44:MC:227:LEU:HD13	2.43	0.48
44:ME:173:PRO:HD2	44:ME:391:LEU:CD2	2.44	0.48
45:MF:173:PRO:CD	45:MF:380:ARG:HH11	2.27	0.48
45:MF:352:SER:C	45:MF:353:ILE:HD12	2.33	0.48
44:MG:181:VAL:HG12	45:MH:256:ASN:OD1	2.14	0.48
44:MI:141:VAL:HG11	44:MI:172:TYR:HA	1.95	0.48
44:MI:256:GLN:HE22	45:ML:397:TRP:HH2	1.60	0.48
44:MK:268:MET:HB2	44:MK:379:SER:O	2.13	0.48
45:ML:330:MET:CG	45:ML:349:ILE:HG21	2.44	0.48
44:MM:136:LEU:HD23	44:MM:167:LEU:HB2	1.95	0.48
44:NA:115:VAL:CG2	44:NA:152:LEU:HD22	2.44	0.48
44:NA:317:MET:HG3	44:NA:319:TYR:HE1	1.79	0.48
44:NA:354:GLY:C	44:NA:355:ILE:HD13	2.34	0.48
44:NA:372:MET:HE2	44:NA:372:MET:N	2.28	0.48
44:NC:208:ALA:HB1	44:NC:302:MET:HA	1.95	0.48
45:ND:67:ASP:OD1	45:ND:68:LEU:N	2.43	0.48
45:ND:149:THR:O	45:ND:153:SER:HB3	2.14	0.48
44:NE:1:MET:CE	44:NE:131:GLY:HA3	2.44	0.48
45:NF:311:LEU:O	45:NF:345:ILE:HG21	2.13	0.48
45:NH:4:ILE:HD13	45:NH:131:GLN:HB3	1.95	0.48
44:NI:136:LEU:HD21	44:NI:167:LEU:HD22	1.96	0.48
44:NI:288:VAL:HG13	44:NI:373:ARG:CD	2.44	0.48
45:NJ:293:MET:CE	45:NJ:367:PHE:HB2	2.44	0.48
45:NJ:376:GLU:HG3	45:NJ:377:MET:N	2.29	0.48
44:NK:63:PRO:HD3	44:NK:86:LEU:HD11	1.95	0.48
44:NK:149:LEU:O	44:NK:153:LEU:HG	2.13	0.48
45:NL:67:ASP:OD1	45:NL:68:LEU:N	2.41	0.48
45:NL:329:GLN:O	45:NL:333:VAL:HG23	2.13	0.48
44:NM:255:PHE:O	44:NM:259:LEU:HG	2.13	0.48
44:NM:362:VAL:CB	44:NM:369:ALA:HA	2.44	0.48
44:NM:399:TYR:O	44:NM:402:ARG:HD2	2.13	0.48
44:OA:268:MET:HE1	44:OA:380:ASN:OD1	2.14	0.48
45:OB:6:HIS:HD1	45:OB:134:GLN:CD	2.16	0.48
45:OB:210:ILE:HD12	45:OB:297:LYS:O	2.13	0.48
44:OC:195:LEU:CD1	44:OC:428:LEU:HD22	2.44	0.48
44:OC:195:LEU:HD11	44:OC:428:LEU:HB2	1.96	0.48
45:OD:34:GLY:HA3	45:OD:58:ARG:CG	2.40	0.48
44:OE:115:VAL:HB	44:OE:152:LEU:HD23	1.95	0.48
44:OE:182:VAL:HG22	44:OE:182:VAL:O	2.14	0.48
45:OH:200:MET:HE3	45:OH:266:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:63:PRO:HG2	44:OI:86:LEU:CG	2.41	0.48
44:OI:311:LYS:H	44:OI:382:THR:HG1	1.58	0.48
45:OJ:271:ALA:HB3	45:OJ:365:VAL:HG23	1.95	0.48
45:OJ:374:ILE:HG12	45:OJ:422:TYR:CZ	2.48	0.48
44:OK:70:LEU:HD21	44:OK:149:LEU:HD21	1.94	0.48
44:OK:213:CYS:HA	44:OK:217:LEU:CD1	2.41	0.48
45:OL:97:ALA:HB2	45:OL:143:THR:HB	1.93	0.48
45:OL:277:GLY:O	45:OL:280:GLN:HB3	2.13	0.48
44:OM:335:ILE:CG2	44:OM:341:ILE:HD13	2.40	0.48
44:PA:97:GLU:O	44:PA:110:ILE:HD12	2.14	0.48
44:PA:107:HIS:O	44:PA:112:LYS:HG3	2.14	0.48
44:PA:188:ILE:HD12	44:PA:188:ILE:H	1.79	0.48
45:PB:377:MET:O	45:PB:380:ARG:HG2	2.14	0.48
45:PB:387:ALA:O	45:PB:390:ARG:HG2	2.14	0.48
44:PC:55:GLU:OE2	44:PC:57:GLY:N	2.46	0.48
44:PC:66:VAL:HG22	44:PC:68:LEU:CD1	2.44	0.48
44:PC:102:ASN:HB3	44:PC:105:ARG:HG3	1.96	0.48
44:PC:311:LYS:NZ	44:PC:342:GLN:HB2	2.29	0.48
44:PC:416:GLY:O	44:PC:419:SER:N	2.46	0.48
44:PE:329:ASN:CG	45:PH:175:VAL:HG21	2.34	0.48
45:PH:178:THR:HG22	45:PH:181:GLU:HG3	1.96	0.48
45:PH:207:LEU:HB3	45:PH:225:LEU:HD22	1.93	0.48
45:PH:207:LEU:O	45:PH:211:CYS:N	2.36	0.48
44:PI:181:VAL:HG22	45:PJ:256:ASN:CB	2.44	0.48
44:PI:310:GLY:C	44:PI:311:LYS:HD3	2.34	0.48
45:PJ:141:GLY:HA3	48:PJ:501:GDP:O3A	2.14	0.48
44:PK:306:ASP:OD2	44:PK:309:HIS:NE2	2.47	0.48
45:PL:7:ILE:HG13	45:PL:135:ILE:HD12	1.95	0.48
45:PL:169:VAL:HG22	45:PL:202:ILE:HB	1.96	0.48
44:QA:10:GLY:O	44:QA:14:ILE:HD12	2.13	0.48
44:QA:103:PHE:HE1	44:QA:148:GLY:HA2	1.78	0.48
44:QA:259:LEU:HD22	44:QA:268:MET:HE1	1.95	0.48
45:QB:252:LYS:HE2	44:QC:101:ASN:CG	2.34	0.48
45:QD:135:ILE:HG13	45:QD:152:ILE:HD11	1.96	0.48
45:QD:215:LEU:HB2	45:QD:217:LEU:HD23	1.96	0.48
44:QG:141:VAL:HG21	44:QG:190:SER:HB2	1.95	0.48
45:QH:86:ARG:HD3	45:QH:89:ASN:OD1	2.14	0.48
45:QH:136:THR:HG22	45:QH:167:PHE:HB2	1.94	0.48
45:QH:187:LEU:HD11	45:QH:408:PHE:CZ	2.48	0.48
45:QJ:141:GLY:HA2	48:QJ:501:GDP:O1A	2.14	0.48
45:QJ:342:VAL:HG12	45:QJ:343:GLU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:113:ILE:O	45:QL:116:VAL:HG12	2.13	0.48
45:QL:114:ASP:OD1	45:QL:115:SER:N	2.47	0.48
44:QM:88:HIS:CG	44:RM:280:LYS:HD2	2.49	0.48
45:QN:29:GLY:O	45:QN:37:HIS:N	2.20	0.48
45:QN:86:ARG:HB2	45:QN:89:ASN:CB	2.43	0.48
45:QN:396:HIS:O	45:QN:400:GLY:N	2.47	0.48
44:RA:30:ILE:HA	44:RA:36:MET:CE	2.44	0.48
44:RA:175:PRO:HD3	44:RA:304:LYS:HB3	1.96	0.48
44:RA:428:LEU:HG	44:RA:432:TYR:HE2	1.75	0.48
45:RB:207:LEU:CD2	45:RB:300:MET:HB2	2.43	0.48
44:RC:64:ARG:NH1	44:RC:64:ARG:HB2	2.28	0.48
44:RC:313:MET:HG2	44:RC:380:ASN:O	2.13	0.48
45:RD:180:VAL:O	45:RD:180:VAL:HG22	2.14	0.48
45:RD:217:LEU:HD11	45:RD:220:PRO:CA	2.43	0.48
44:RE:223:THR:HG23	44:RE:225:THR:N	2.28	0.48
45:RF:223:GLY:O	45:RF:227:HIS:N	2.46	0.48
44:RG:175:PRO:HG2	44:RG:207:GLU:OE1	2.13	0.48
44:RG:177:VAL:HB	44:RG:207:GLU:HG3	1.95	0.48
44:RG:217:LEU:HD21	44:RG:275:ILE:HG23	1.96	0.48
45:RH:114:ASP:OD1	45:RH:115:SER:N	2.47	0.48
44:RI:35:GLN:OE1	44:RI:60:LYS:N	2.47	0.48
45:RJ:16:ILE:HD11	48:RJ:501:GDP:N2	2.29	0.48
45:RJ:105:HIS:CE1	45:RJ:150:LEU:HD12	2.49	0.48
45:RJ:372:THR:HA	45:RJ:422:TYR:CE2	2.49	0.48
45:RL:116:VAL:O	45:RL:119:VAL:HG12	2.14	0.48
45:RL:324:LYS:HG3	44:RM:210:TYR:CG	2.49	0.48
45:RL:404:ASP:OD1	45:RL:407:GLU:HG3	2.14	0.48
44:RM:4:VAL:HG23	44:RM:134:GLY:O	2.13	0.48
44:RM:14:ILE:HD13	44:RM:74:VAL:HB	1.96	0.48
44:RM:112:LYS:HA	44:RM:115:VAL:HG12	1.95	0.48
44:RM:117:LEU:HB3	44:RM:121:ARG:CZ	2.44	0.48
44:RM:141:VAL:HG21	44:RM:172:TYR:CE1	2.49	0.48
44:RM:228:ASN:ND2	46:RM:501:GTP:O6	2.46	0.48
44:SA:292:THR:O	44:SA:295:ALA:HB3	2.13	0.48
44:SA:377:MET:HE2	44:SA:379:SER:HB3	1.96	0.48
45:SB:310:TYR:CD1	45:SB:371:SER:HB2	2.49	0.48
44:SC:5:ILE:O	44:SC:136:LEU:N	2.32	0.48
44:SC:392:ASP:O	44:SC:395:PHE:HB3	2.14	0.48
45:SD:68:LEU:HD23	45:SD:97:ALA:CB	2.36	0.48
45:SD:286:VAL:O	45:SD:290:THR:N	2.42	0.48
44:SE:352:LYS:HA	45:SF:177:ASP:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SF:210:ILE:CG2	45:SF:228:LEU:HD13	2.43	0.48
45:SF:263:LEU:HD22	45:SF:422:TYR:HD1	1.78	0.48
45:SF:289:LEU:HD23	45:SF:292:GLN:HE21	1.79	0.48
45:SF:291:GLN:NE2	45:SF:292:GLN:HB3	2.28	0.48
45:SF:406:MET:O	45:SF:409:THR:HB	2.13	0.48
44:SG:188:ILE:HD12	44:SG:425:LEU:HD11	1.94	0.48
45:SH:100:ASN:HB3	45:SH:103:LYS:HB3	1.95	0.48
44:SI:75:ILE:CG2	44:SI:92:LEU:HD23	2.36	0.48
45:SJ:61:PRO:HD3	45:SJ:84:LEU:HB3	1.95	0.48
45:SJ:167:PHE:CZ	45:SJ:233:MET:HG2	2.48	0.48
44:SK:205:ASP:OD2	44:SK:304:LYS:N	2.30	0.48
45:SL:175:VAL:HG23	45:SL:204:ASN:HD21	1.78	0.48
45:SL:271:ALA:HB2	45:SL:292:GLN:OE1	2.14	0.48
44:SM:21:TRP:HD1	44:SM:24:PHE:HD2	1.62	0.48
44:SM:237:SER:HA	44:SM:320:ARG:HH11	1.79	0.48
45:SN:114:ASP:O	45:SN:118:ASP:N	2.46	0.48
45:SN:412:GLU:O	45:SN:415:MET:HG3	2.14	0.48
44:TC:84:ARG:HH12	44:TC:85:GLN:CG	2.26	0.48
44:TC:209:ILE:HG22	44:TC:213:CYS:SG	2.54	0.48
45:TD:50:TYR:O	45:TD:62:ARG:HG2	2.14	0.48
45:TD:186:THR:HG23	45:TD:415:MET:HE1	1.95	0.48
45:TD:257:LEU:HB3	45:TD:266:PHE:HE2	1.74	0.48
45:TD:263:LEU:HD23	45:TD:311:LEU:CD1	2.44	0.48
45:TD:290:THR:HG22	45:TD:293:MET:HE1	1.95	0.48
44:TE:71:GLU:OE1	44:TE:73:THR:HB	2.13	0.48
44:TE:106:GLY:O	44:TE:149:LEU:HD22	2.14	0.48
44:TG:200:VAL:HG23	44:TG:256:GLN:HB3	1.95	0.48
45:TH:222:TYR:C	45:TH:226:ASN:HD22	2.14	0.48
44:TI:7:ILE:CD1	44:TI:122:ILE:HD12	2.43	0.48
45:TJ:231:ALA:HB1	45:TJ:270:PHE:CE1	2.49	0.48
44:TK:168:GLY:N	44:TK:200:VAL:O	2.46	0.48
44:TK:287:SER:O	44:TK:291:ILE:HG23	2.14	0.48
45:TN:3:GLU:HB3	45:TN:49:VAL:HA	1.96	0.48
45:TN:222:TYR:CD1	45:TN:225:LEU:HD12	2.49	0.48
45:TN:303:ALA:HB2	45:TN:377:MET:SD	2.53	0.48
45:UB:290:THR:HG21	45:UB:333:VAL:HG21	1.95	0.48
44:UC:2:ARG:HD2	44:UC:242:LEU:HB3	1.96	0.48
44:UC:301:MET:HE1	44:UC:307:PRO:HD3	1.96	0.48
45:UD:7:ILE:HG21	45:UD:151:LEU:HD13	1.95	0.48
44:UE:91:GLN:HG2	44:UE:121:ARG:NH2	2.28	0.48
44:UE:362:VAL:HG21	44:UE:368:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:270:SER:O	44:UG:302:MET:HE2	2.14	0.48
45:UH:116:VAL:O	45:UH:119:VAL:HG22	2.14	0.48
45:UH:321:MET:CE	45:UH:326:VAL:HG22	2.44	0.48
44:UI:332:ILE:O	44:UI:336:LYS:HG3	2.14	0.48
45:UJ:26:ASP:O	45:UJ:29:GLY:N	2.31	0.48
45:UJ:55:THR:H	45:VJ:283:ALA:HA	1.79	0.48
44:UK:75:ILE:HA	44:UK:78:VAL:HG23	1.95	0.48
44:UK:203:MET:HE1	44:UK:267:PHE:HD2	1.79	0.48
45:UL:151:LEU:O	45:UL:155:VAL:HG23	2.14	0.48
45:UL:251:ARG:HD3	44:UM:100:ALA:HB2	1.95	0.48
45:UL:268:ILE:HG22	45:UL:368:VAL:HA	1.95	0.48
44:UM:7:ILE:CD1	44:UM:66:VAL:HG12	2.43	0.48
45:UN:193:VAL:HG23	45:UN:265:PHE:CE1	2.48	0.48
44:VA:9:VAL:HG12	44:VA:68:LEU:HB2	1.96	0.48
44:VA:75:ILE:HG13	44:VA:94:SER:OG	2.14	0.48
44:VA:383:ALA:O	44:VA:386:GLU:HG2	2.14	0.48
45:VB:86:ARG:NH1	45:VB:87:PRO:HG2	2.29	0.48
45:VD:391:ARG:O	45:VD:392:LYS:HB2	2.14	0.48
44:VG:28:HIS:NE2	44:VG:48:ALA:HB1	2.29	0.48
44:VG:188:ILE:HG13	44:VG:395:PHE:CD1	2.49	0.48
45:VH:44:LEU:HD23	45:VH:47:ILE:CD1	2.43	0.48
44:VI:114:ILE:O	44:VI:114:ILE:HG22	2.12	0.48
44:VI:169:PHE:CD1	44:VI:202:VAL:HB	2.49	0.48
44:VI:329:ASN:HA	44:VI:332:ILE:HG22	1.96	0.48
44:VK:128:ASN:HD21	44:WK:285:GLN:NE2	2.12	0.48
45:VL:8:GLN:HE21	45:VL:65:LEU:HG	1.78	0.48
45:VL:52:ASN:O	45:VL:60:VAL:HG22	2.13	0.48
44:VM:104:ALA:HB3	44:VM:411:GLU:HB2	1.96	0.48
45:VN:183:TYR:O	45:VN:186:THR:HG22	2.14	0.48
44:WA:181:VAL:CG1	45:WB:348:ASN:HA	2.44	0.48
45:WB:14:ASN:HB3	45:WB:73:MET:CE	2.43	0.48
45:WB:382:ALA:O	45:WB:386:THR:HG22	2.14	0.48
44:WC:20:CYS:HA	44:WC:232:ALA:CB	2.35	0.48
45:WD:24:ILE:CG2	45:WD:28:HIS:HD2	2.24	0.48
45:WD:35:THR:O	45:WD:37:HIS:HD2	1.97	0.48
44:WE:254:GLU:CG	45:WH:98:GLY:HA2	2.44	0.48
44:WG:103:PHE:CD2	44:WG:189:LEU:HD13	2.49	0.48
44:WI:11:GLN:HB3	46:WI:501:GTP:O2B	2.13	0.48
44:WI:156:ARG:O	44:WI:159:VAL:HG12	2.14	0.48
44:WI:195:LEU:HD12	44:WI:267:PHE:HE1	1.79	0.48
45:WJ:170:VAL:HG23	45:WJ:171:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:384:ILE:HG23	44:WK:388:PHE:CE2	2.49	0.48
44:WM:180:ALA:HB3	44:WM:183:GLU:HB3	1.96	0.48
45:WN:313:ALA:O	45:WN:349:ILE:HA	2.13	0.48
10:0N:156:HIS:CD2	45:KN:26:ASP:OD1	2.67	0.48
10:0N:212:ILE:O	45:KN:32:PRO:HD2	2.14	0.48
4:1C:43:TYR:HB2	45:DL:48:ASN:HD21	1.71	0.48
8:1G:89:HIS:HE1	45:JB:228:LEU:HD23	1.78	0.48
22:1L:892:ARG:CZ	44:CC:279:GLU:HB3	2.44	0.48
15:1V:61:PRO:HG3	44:LI:110:ILE:HG22	1.96	0.48
31:2H:205:GLN:O	44:AC:82:THR:HG21	2.14	0.48
13:2T:82:ALA:HB1	44:MG:414:GLU:OE2	2.14	0.48
6:3E:76:GLU:H	35:6R:374:LYS:NZ	2.10	0.48
32:3I:260:MET:HA	45:GJ:332:ASN:ND2	2.29	0.48
22:3L:45:ARG:HH12	45:BB:284:LEU:HB2	1.78	0.48
11:3Q:31:ASN:O	36:5S:197:ARG:NH2	2.47	0.48
26:3R:458:ILE:HD13	45:FL:277:GLY:HA2	1.96	0.48
38:5E:157:ARG:NH2	45:ND:37:HIS:HB2	2.22	0.48
38:5G:132:THR:CG2	38:5G:133:PRO:HD2	2.43	0.48
38:5G:141:CYS:O	38:5G:144:LEU:HG	2.13	0.48
38:5H:29:LYS:HG3	38:5H:30:PRO:CD	2.44	0.48
39:5K:40:THR:HG21	44:JK:423:GLU:CD	2.35	0.48
35:5R:131:GLU:CG	35:5R:141:GLN:HE21	2.22	0.48
40:6F:19:SER:OG	40:6F:29:GLU:OE1	2.26	0.48
41:6G:220:LEU:O	41:6G:223:THR:HG22	2.14	0.48
41:6G:268:VAL:CA	44:VA:338:LYS:HD2	2.32	0.48
11:6Q:180:GLU:HG2	11:6Q:181:PHE:N	2.29	0.48
35:6R:525:GLU:HB3	35:6R:584:GLU:HG3	1.96	0.48
35:6R:567:ASN:HA	35:6R:570:VAL:HG22	1.96	0.48
35:7R:22:LYS:HB2	35:7R:25:HIS:CE1	2.49	0.48
35:7R:90:ARG:HG3	35:7R:90:ARG:O	2.14	0.48
35:7R:122:LEU:HD22	35:7R:190:PHE:CZ	2.49	0.48
35:7R:391:PHE:HE2	45:EB:273:LEU:HD22	1.77	0.48
35:7R:542:TYR:CZ	35:7R:551:LEU:HD13	2.49	0.48
35:7R:555:ASN:ND2	35:7R:576:LEU:HB2	2.29	0.48
44:AA:6:SER:OG	44:AA:65:ALA:HB2	2.14	0.48
44:AA:51:THR:HG21	44:AA:243:ARG:HD3	1.96	0.48
45:AB:6:HIS:O	45:AB:63:ALA:HA	2.14	0.48
45:AB:36:TYR:CE1	45:AB:44:LEU:HD11	2.48	0.48
44:AG:318:MET:SD	44:AG:354:GLY:HA3	2.54	0.48
45:AH:86:ARG:CZ	45:BH:278:SER:HA	2.42	0.48
44:AI:349:THR:O	44:AI:349:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AK:501:GTP:O1G	45:AL:252:LYS:NZ	2.29	0.48
45:AL:286:VAL:HB	45:AL:325:GLU:CD	2.34	0.48
44:AM:55:GLU:HG3	44:AM:57:GLY:H	1.79	0.48
44:AM:189:LEU:HD23	44:AM:421:ALA:CB	2.43	0.48
44:BA:51:THR:O	44:BA:64:ARG:HD2	2.14	0.48
44:BA:53:PHE:HD2	44:BA:61:HIS:HB2	1.78	0.48
44:BA:73:THR:OG1	45:BB:2:ARG:NH2	2.47	0.48
44:BA:101:ASN:HD22	45:BB:252:LYS:CG	2.15	0.48
44:BA:222:PRO:HG2	45:BB:324:LYS:CD	2.44	0.48
45:BB:257:LEU:HA	45:BB:312:THR:HG21	1.95	0.48
44:BC:7:ILE:HD12	44:BC:66:VAL:HG12	1.96	0.48
45:BD:341:PHE:HD2	45:BD:348:ASN:HD21	1.62	0.48
44:BE:13:GLY:O	44:BE:16:VAL:HG12	2.13	0.48
44:BE:170:THR:HG1	44:BE:172:TYR:HE2	1.59	0.48
45:BF:237:THR:CG2	45:BF:241:ARG:HH12	2.26	0.48
44:BI:261:PRO:HA	45:BL:394:PHE:CE1	2.49	0.48
44:BI:323:VAL:O	44:BI:323:VAL:HG13	2.14	0.48
45:BJ:73:MET:CE	45:BJ:92:PHE:HB3	2.39	0.48
45:BJ:156:ARG:CG	45:BJ:195:ASN:HB3	2.42	0.48
44:BK:362:VAL:HG13	44:BK:362:VAL:O	2.13	0.48
44:BK:439:THR:HG21	45:BN:390:ARG:NH1	2.26	0.48
45:BL:304:ASP:CG	45:BL:306:ARG:HG2	2.34	0.48
45:BL:348:ASN:OD1	45:BL:349:ILE:HD12	2.14	0.48
44:BM:107:HIS:ND1	44:BM:108:TYR:CE1	2.82	0.48
44:BM:195:LEU:HD21	44:BM:264:ARG:HH22	1.78	0.48
44:CA:62:VAL:HG21	44:DA:283:HIS:HB3	1.96	0.48
45:CB:323:THR:HG21	44:CC:224:TYR:CE1	2.49	0.48
45:CB:398:TYR:HB3	45:CB:403:MET:HE2	1.96	0.48
44:CC:264:ARG:NE	44:CC:428:LEU:HD13	2.28	0.48
44:CC:425:LEU:O	44:CC:429:GLU:N	2.30	0.48
45:CD:98:GLY:H	45:CD:143:THR:HG22	1.79	0.48
45:CD:306:ARG:HA	45:CD:340:TYR:CE1	2.47	0.48
45:CF:22:GLU:HG2	45:CF:81:PHE:CD1	2.49	0.48
45:CF:63:ALA:O	45:CF:89:ASN:ND2	2.31	0.48
45:CF:101:TRP:HD1	45:CF:145:SER:OG	1.97	0.48
45:CH:5:VAL:HG12	45:CH:62:ARG:NH1	2.21	0.48
45:CJ:293:MET:HG3	45:CJ:367:PHE:HB2	1.95	0.48
44:CK:137:VAL:HG21	44:CK:154:LEU:HD21	1.96	0.48
44:CK:173:PRO:HD2	44:CK:391:LEU:HD21	1.96	0.48
45:CL:31:ASP:O	45:CL:34:GLY:N	2.36	0.48
45:CL:316:LEU:O	45:CL:366:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:9:VAL:CG2	44:CM:149:LEU:HB2	2.44	0.48
44:CM:200:VAL:HG21	44:CM:256:GLN:HB3	1.94	0.48
44:CM:430:LYS:O	44:CM:434:GLU:N	2.24	0.48
45:CN:21:TRP:CZ3	45:CN:24:ILE:HG21	2.48	0.48
45:CN:236:VAL:HA	45:CN:316:LEU:HD22	1.96	0.48
45:CN:375:GLN:O	45:CN:379:LYS:HG3	2.14	0.48
44:DA:422:ARG:HH12	44:DA:426:ALA:HB2	1.77	0.48
45:DB:52:ASN:N	45:DB:60:VAL:O	2.43	0.48
45:DB:66:MET:HA	45:DB:91:VAL:HG13	1.95	0.48
44:DC:321:GLY:O	44:DC:357:TYR:HA	2.14	0.48
45:DD:69:GLU:OE1	45:DD:71:GLY:N	2.47	0.48
44:DE:141:VAL:CG1	44:DE:172:TYR:HA	2.43	0.48
44:DE:195:LEU:CD1	44:DE:428:LEU:HD22	2.44	0.48
44:DE:437:ILE:O	44:DE:437:ILE:HG13	2.14	0.48
44:DG:4:VAL:HG12	44:DG:52:PHE:HE2	1.78	0.48
44:DG:47:ASP:O	44:DG:50:ASN:N	2.44	0.48
44:DG:60:LYS:NZ	44:DG:85:GLN:O	2.45	0.48
44:DG:264:ARG:HE	44:DG:431:ASP:CB	2.26	0.48
45:DH:207:LEU:HD13	45:DH:225:LEU:HB3	1.96	0.48
45:DH:268:ILE:HA	45:DH:367:PHE:CD2	2.44	0.48
44:DI:270:SER:HB3	44:DI:378:ILE:HD13	1.96	0.48
45:DJ:198:GLU:HG2	45:DJ:266:PHE:CZ	2.49	0.48
45:DJ:230:SER:HA	45:DJ:233:MET:HE3	1.95	0.48
45:DJ:332:ASN:O	45:DJ:336:LYS:HG2	2.14	0.48
45:DL:255:VAL:HG21	44:DM:100:ALA:O	2.14	0.48
45:DL:256:ASN:HD22	44:DM:181:VAL:CG2	2.27	0.48
44:DM:56:THR:HG23	44:DM:58:ALA:H	1.78	0.48
44:DM:69:ASP:O	44:DM:94:SER:HA	2.14	0.48
44:DM:235:ILE:HD12	44:DM:235:ILE:H	1.79	0.48
44:DM:349:THR:O	44:DM:349:THR:HG23	2.13	0.48
45:EB:187:LEU:O	45:EB:190:HIS:HB3	2.14	0.48
45:EB:253:LEU:O	45:EB:257:LEU:HD13	2.13	0.48
45:EB:287:PRO:HA	45:EB:290:THR:HG22	1.96	0.48
45:ED:139:LEU:HD22	45:ED:170:VAL:CG1	2.31	0.48
44:EE:219:ILE:HG22	44:EE:222:PRO:N	2.29	0.48
45:EF:64:ILE:HG23	45:EF:89:ASN:O	2.14	0.48
45:EF:261:PRO:HD3	44:EG:406:HIS:CG	2.49	0.48
44:EG:132:LEU:HG	44:EG:132:LEU:O	2.14	0.48
44:EG:317:MET:HG2	44:EG:377:MET:HB3	1.96	0.48
45:EH:5:VAL:HG22	45:EH:6:HIS:N	2.28	0.48
45:EH:20:PHE:O	45:EH:24:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:169:PHE:HB3	44:EI:204:LEU:HD11	1.94	0.48
45:EJ:251:ARG:HH12	44:EK:105:ARG:NH2	2.12	0.48
44:EM:176:GLN:OE1	44:EM:176:GLN:N	2.47	0.48
44:EM:390:ARG:O	44:EM:394:LYS:HG3	2.14	0.48
44:EM:401:LYS:O	44:EM:402:ARG:HG2	2.14	0.48
45:EN:114:ASP:OD1	45:EN:115:SER:N	2.47	0.48
44:FA:121:ARG:HG3	44:FA:125:LEU:HD11	1.95	0.48
45:FB:323:THR:O	45:FB:326:VAL:HB	2.14	0.48
45:FB:387:ALA:O	45:FB:390:ARG:HG2	2.14	0.48
44:FC:14:ILE:HD13	44:FC:74:VAL:CG2	2.44	0.48
44:FC:200:VAL:HG13	44:FC:268:MET:HE1	1.95	0.48
44:FC:224:TYR:CD1	45:FD:323:THR:HG21	2.48	0.48
45:FD:304:ASP:OD1	45:FD:306:ARG:HG2	2.14	0.48
45:FF:284:LEU:HB3	45:FF:363:MET:HE1	1.95	0.48
44:FG:311:LYS:CA	44:FG:342:GLN:HE22	2.18	0.48
44:FG:404:PHE:HA	45:FH:259:PRO:O	2.14	0.48
44:FI:335:ILE:HA	44:FI:338:LYS:NZ	2.29	0.48
45:FJ:112:LEU:O	45:FJ:112:LEU:HD23	2.14	0.48
45:FJ:377:MET:SD	45:FJ:380:ARG:HD2	2.54	0.48
44:FK:248:LEU:HD21	48:FN:501:GDP:H3'	1.95	0.48
44:FK:274:PRO:CD	44:FK:374:ALA:HA	2.43	0.48
45:FN:136:THR:CG2	45:FN:167:PHE:HB2	2.40	0.48
44:GA:16:VAL:HG11	44:GA:231:ILE:CD1	2.44	0.48
44:GA:79:ARG:HG2	44:GA:92:LEU:CD2	2.40	0.48
44:GA:181:VAL:CG1	45:GB:348:ASN:HA	2.44	0.48
44:GA:229:ARG:O	44:GA:232:ALA:HB3	2.13	0.48
44:GA:358:GLN:OE1	44:GA:358:GLN:HA	2.14	0.48
45:GB:103:LYS:O	45:GB:108:GLU:N	2.30	0.48
45:GB:318:ARG:HB3	45:GB:357:PRO:CB	2.44	0.48
45:GB:329:GLN:HE22	45:GB:333:VAL:CG2	2.26	0.48
44:GC:268:MET:HB2	44:GC:379:SER:C	2.34	0.48
44:GC:307:PRO:HB3	44:GC:312:TYR:CZ	2.48	0.48
44:GC:320:ARG:HH11	44:GC:359:PRO:HA	1.78	0.48
45:GD:200:MET:HE2	45:GD:268:ILE:HG22	1.94	0.48
45:GD:405:GLU:HA	45:GD:408:PHE:HB2	1.95	0.48
44:GE:105:ARG:O	44:GE:110:ILE:HG12	2.13	0.48
44:GE:294:SER:HA	44:GE:297:GLU:CD	2.34	0.48
44:GE:372:MET:O	44:GE:373:ARG:HD3	2.13	0.48
45:GF:45:GLU:C	45:GF:46:ARG:HD2	2.34	0.48
44:GG:326:LYS:HD3	45:GJ:212:PHE:HE1	1.75	0.48
44:GI:315:CYS:HA	44:GI:379:SER:OG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:326:LYS:NZ	45:GL:208:TYR:CG	2.80	0.48
45:GJ:268:ILE:O	45:GJ:300:MET:HE2	2.14	0.48
44:GK:91:GLN:O	44:GK:93:ILE:HD12	2.13	0.48
44:GK:371:VAL:HG23	44:GK:373:ARG:O	2.14	0.48
45:GL:215:LEU:HD21	45:GL:273:LEU:HB3	1.96	0.48
45:HB:167:PHE:HA	45:HB:200:MET:O	2.14	0.48
45:HB:316:LEU:O	45:HB:365:VAL:HG13	2.14	0.48
44:HC:11:GLN:HG3	44:HC:74:VAL:HG11	1.95	0.48
44:HC:99:ALA:HA	44:HC:110:ILE:HD11	1.95	0.48
44:HC:186:ASN:O	44:HC:190:SER:N	2.30	0.48
44:HC:377:MET:SD	44:HC:379:SER:HB3	2.54	0.48
45:HD:7:ILE:O	45:HD:135:ILE:HA	2.14	0.48
45:HD:183:TYR:CZ	45:HD:388:MET:HB3	2.49	0.48
45:HD:217:LEU:CD1	45:HD:220:PRO:HG3	2.44	0.48
44:HE:259:LEU:HD21	44:HE:316:SER:HB2	1.95	0.48
45:HH:178:THR:HG21	45:HH:180:VAL:HG12	1.94	0.48
44:HI:246:GLY:HA2	44:HI:357:TYR:CE2	2.48	0.48
45:HJ:69:GLU:OE2	45:HJ:72:THR:HG23	2.12	0.48
45:HJ:245:GLN:O	45:HJ:246:LEU:HD12	2.14	0.48
45:HJ:245:GLN:NE2	45:HJ:355:ASP:OD1	2.42	0.48
44:HK:52:PHE:HZ	44:HK:239:THR:HG1	1.61	0.48
44:HK:237:SER:HA	44:HK:320:ARG:NH1	2.29	0.48
44:HK:240:ALA:HB1	44:HK:356:ASN:ND2	2.29	0.48
45:HL:50:TYR:HD2	45:HL:241:ARG:HD3	1.79	0.48
45:HL:87:PRO:HD2	45:IL:281:TYR:HD2	1.79	0.48
45:HL:177:ASP:HB2	45:HL:181:GLU:OE2	2.14	0.48
45:HL:268:ILE:HG22	45:HL:368:VAL:HG22	1.94	0.48
44:HM:62:VAL:HG13	44:HM:62:VAL:O	2.14	0.48
45:HN:342:VAL:HG13	45:HN:342:VAL:O	2.13	0.48
44:IA:429:GLU:O	44:IA:432:TYR:HB2	2.13	0.48
44:IA:435:VAL:HA	45:ID:391:ARG:NH2	2.29	0.48
45:IB:105:HIS:NE2	45:IB:150:LEU:HB2	2.28	0.48
45:IB:205:GLU:HA	45:IB:208:TYR:CD2	2.45	0.48
45:ID:62:ARG:NH1	45:ID:127:CYS:HB3	2.28	0.48
44:IG:402:ARG:HG3	44:IG:402:ARG:HH11	1.78	0.48
44:II:25:CYS:HA	44:II:30:ILE:CG2	2.43	0.48
44:II:179:THR:HG21	46:II:501:GTP:O3'	2.14	0.48
44:II:339:ARG:HH21	44:II:342:GLN:HB3	1.78	0.48
45:IJ:156:ARG:NH1	45:IJ:162:ARG:O	2.46	0.48
44:IK:195:LEU:HA	44:IK:266:HIS:NE2	2.29	0.48
45:IL:271:ALA:HB1	45:IL:272:PRO:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:6:SER:O	44:IM:7:ILE:HD13	2.13	0.48
45:IN:68:LEU:HD23	45:IN:97:ALA:HB2	1.95	0.48
45:IN:206:ALA:HB3	45:IN:300:MET:O	2.14	0.48
44:JA:11:GLN:HB2	44:JA:71:GLU:OE2	2.13	0.48
44:JA:138:PHE:HE1	44:JA:169:PHE:HD2	1.60	0.48
44:JA:276:ILE:HD11	44:JA:280:LYS:CE	2.29	0.48
45:JB:113:ILE:HA	45:JB:116:VAL:HG12	1.95	0.48
45:JB:372:THR:O	45:JB:375:GLN:HG3	2.14	0.48
44:JC:60:LYS:NZ	44:KC:283:HIS:CD2	2.82	0.48
44:JC:258:ASN:OD1	44:JC:258:ASN:O	2.31	0.48
45:JD:337:ASN:HB3	45:JD:340:TYR:CD2	2.47	0.48
45:JF:80:PRO:O	45:JF:81:PHE:HB2	2.13	0.48
45:JF:325:GLU:HG3	45:JF:328:GLU:OE2	2.13	0.48
45:JF:421:GLU:O	45:JF:424:GLN:HG3	2.14	0.48
44:JG:178:SER:HB2	44:JG:183:GLU:OE1	2.13	0.48
44:JI:220:GLU:C	44:JI:222:PRO:HD3	2.33	0.48
44:JI:396:ASP:OD1	44:JI:397:LEU:N	2.46	0.48
45:JJ:4:ILE:CG1	45:JJ:50:TYR:HE1	2.27	0.48
45:JJ:87:PRO:HD2	45:KJ:281:TYR:HD2	1.79	0.48
45:JJ:310:TYR:O	45:JJ:342:VAL:HG22	2.14	0.48
44:JK:273:ALA:HA	44:JK:275:ILE:CD1	2.44	0.48
45:JL:101:TRP:CZ3	45:JL:187:LEU:HB3	2.49	0.48
45:JL:253:LEU:CD2	45:JL:257:LEU:HD12	2.43	0.48
44:JM:386:GLU:HA	44:JM:389:SER:OG	2.13	0.48
45:JN:8:GLN:O	45:JN:8:GLN:HG2	2.14	0.48
44:KA:268:MET:HG3	44:KA:380:ASN:CA	2.44	0.48
44:KA:387:VAL:HG13	44:KA:388:PHE:N	2.28	0.48
45:KB:21:TRP:CZ3	45:KB:85:PHE:HE1	2.32	0.48
45:KB:133:PHE:N	45:KB:164:MET:HE1	2.29	0.48
44:KC:188:ILE:HD13	44:KC:395:PHE:CG	2.48	0.48
45:KD:7:ILE:O	45:KD:7:ILE:HG13	2.14	0.48
45:KD:181:GLU:HA	45:KD:184:ASN:OD1	2.13	0.48
44:KE:217:LEU:HD13	44:KE:367:ASP:HB3	1.96	0.48
44:KG:276:ILE:CD1	44:KG:280:LYS:HD2	2.36	0.48
45:KH:108:GLU:O	45:KH:111:GLU:HG2	2.14	0.48
44:KI:225:THR:HA	44:KI:228:ASN:ND2	2.29	0.48
45:KL:3:GLU:HB2	45:KL:62:ARG:HH12	1.79	0.48
44:KM:138:PHE:CD2	44:KM:169:PHE:HB2	2.49	0.48
44:KM:191:THR:O	44:KM:195:LEU:N	2.47	0.48
44:KM:209:ILE:CG2	44:KM:227:LEU:HD22	2.44	0.48
44:KM:406:HIS:HA	44:KM:409:VAL:CG1	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:182:PRO:HB3	45:KN:382:ALA:HB2	1.96	0.48
44:LA:346:TRP:HB3	45:LD:391:ARG:HG3	1.94	0.48
45:LB:143:THR:HG1	45:LB:144:GLY:H	1.61	0.48
45:LB:173:PRO:HD2	45:LB:174:LYS:HZ2	1.77	0.48
44:LC:11:GLN:HE22	45:LD:246:LEU:HA	1.79	0.48
44:LE:362:VAL:HG11	44:LE:370:LYS:HB3	1.96	0.48
45:LJ:115:SER:O	45:LJ:118:ASP:HB2	2.14	0.48
45:LJ:284:LEU:O	45:LJ:285:THR:HG23	2.13	0.48
44:LM:437:ILE:HG13	44:LM:437:ILE:O	2.12	0.48
44:MA:21:TRP:CZ2	44:MA:63:PRO:HB3	2.48	0.48
44:MA:106:GLY:O	44:MA:148:GLY:HA3	2.13	0.48
44:MA:205:ASP:CG	44:MA:304:LYS:H	2.17	0.48
45:MB:68:LEU:HD23	45:MB:97:ALA:CB	2.42	0.48
45:MB:269:GLY:HA2	45:MB:300:MET:CE	2.44	0.48
45:MD:104:GLY:O	45:MD:147:MET:N	2.47	0.48
45:MD:292:GLN:NE2	45:MD:298:ASN:HB2	2.29	0.48
45:MD:390:ARG:HB3	45:MD:390:ARG:NH1	2.28	0.48
45:MD:396:HIS:HA	45:MD:399:THR:HG22	1.94	0.48
45:MF:42:LEU:CD1	45:MF:243:PRO:HG2	2.44	0.48
44:MG:329:ASN:OD1	45:MJ:175:VAL:HB	2.14	0.48
45:MH:12:CYS:HB3	45:MH:138:SER:HB2	1.95	0.48
45:MH:33:THR:O	45:MH:33:THR:HG22	2.14	0.48
45:MJ:313:ALA:HB1	45:MJ:367:PHE:CZ	2.49	0.48
44:MM:92:LEU:HD12	44:MM:92:LEU:N	2.29	0.48
44:MM:101:ASN:HA	44:MM:144:GLY:HA3	1.95	0.48
45:NB:108:GLU:O	45:NB:111:GLU:N	2.45	0.48
44:NC:265:ILE:HG12	44:NC:432:TYR:CE1	2.43	0.48
44:NE:258:ASN:O	45:NH:179:VAL:HG21	2.14	0.48
44:NE:269:LEU:CD1	44:NE:301:MET:HE2	2.41	0.48
44:NE:407:TRP:CZ3	45:NH:255:VAL:HA	2.49	0.48
44:NE:417:GLU:HA	44:NE:420:GLU:OE1	2.14	0.48
44:NG:12:GLY:O	44:NG:16:VAL:HG12	2.14	0.48
44:NG:209:ILE:HA	44:NG:212:ILE:HG22	1.95	0.48
45:NH:204:ASN:O	45:NH:207:LEU:N	2.47	0.48
45:NH:391:ARG:NH2	45:NH:393:ALA:HB3	2.29	0.48
44:NI:166:LYS:N	44:NI:199:ASP:OD2	2.46	0.48
44:NI:242:LEU:HD11	44:NI:252:ILE:HD11	1.95	0.48
45:NJ:62:ARG:HG3	45:NJ:62:ARG:O	2.13	0.48
45:NJ:324:LYS:O	45:NJ:328:GLU:HG2	2.13	0.48
45:NL:134:GLN:O	45:NL:135:ILE:HD13	2.14	0.48
45:NL:167:PHE:CE1	45:NL:200:MET:HE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:296:ALA:HB3	45:NL:306:ARG:HH21	1.78	0.48
44:NM:98:ASP:OD1	44:NM:100:ALA:N	2.39	0.48
44:NM:276:ILE:CD1	44:NM:371:VAL:HA	2.44	0.48
44:OA:288:VAL:CA	44:OA:291:ILE:HG12	2.44	0.48
44:OA:345:ASP:HB3	44:OA:438:GLU:HB3	1.95	0.48
44:OA:414:GLU:OE1	44:OA:417:GLU:N	2.47	0.48
45:OB:136:THR:HG22	45:OB:167:PHE:HD2	1.79	0.48
44:OC:3:GLU:OE2	44:OC:4:VAL:N	2.47	0.48
44:OC:311:LYS:HE3	44:OC:342:GLN:NE2	2.29	0.48
44:OC:319:TYR:CE2	44:OC:328:VAL:HG22	2.49	0.48
45:OD:342:VAL:HG12	45:OD:344:TRP:H	1.79	0.48
44:OE:34:GLY:HA3	44:OE:60:LYS:CG	2.35	0.48
44:OE:346:TRP:CZ3	44:OE:347:CYS:HB2	2.48	0.48
44:OG:182:VAL:HG22	44:OG:182:VAL:O	2.14	0.48
45:OH:122:LYS:HA	45:OH:122:LYS:HD2	1.62	0.48
44:OI:188:ILE:HG13	44:OI:395:PHE:CG	2.49	0.48
44:OK:417:GLU:O	44:OK:420:GLU:HG2	2.14	0.48
45:OL:193:VAL:O	45:OL:264:HIS:NE2	2.45	0.48
45:OL:265:PHE:HD1	45:OL:378:PHE:HZ	1.62	0.48
45:ON:134:GLN:HA	45:ON:165:GLU:O	2.14	0.48
45:ON:148:GLY:O	45:ON:152:ILE:HG12	2.14	0.48
44:PA:101:ASN:CA	44:PA:144:GLY:HA3	2.43	0.48
45:PB:235:GLY:CA	45:PB:366:THR:HG21	2.44	0.48
44:PE:101:ASN:HD21	45:PF:252:LYS:HE3	1.78	0.48
45:PF:113:ILE:CD1	45:PF:150:LEU:HD22	2.39	0.48
45:PF:371:SER:O	45:PF:374:ILE:HG23	2.14	0.48
45:PH:86:ARG:CZ	45:QF:281:TYR:HB3	2.44	0.48
45:PH:227:HIS:HA	45:PH:230:SER:HB2	1.95	0.48
45:PH:268:ILE:O	45:PH:300:MET:HE2	2.14	0.48
44:PI:87:PHE:HB3	44:PI:91:GLN:NE2	2.28	0.48
44:PI:206:ASN:HA	44:PI:209:ILE:HD12	1.95	0.48
44:PI:256:GLN:HB2	45:PL:397:TRP:HH2	1.79	0.48
44:PI:259:LEU:HD22	44:PI:378:ILE:O	2.14	0.48
45:PJ:61:PRO:HD2	45:PJ:84:LEU:O	2.13	0.48
45:PJ:226:ASN:O	45:PJ:229:VAL:HG12	2.14	0.48
44:PK:62:VAL:CG1	44:PK:88:HIS:HB2	2.44	0.48
45:PL:423:GLN:O	45:PL:426:GLN:N	2.46	0.48
44:QA:89:PRO:HD3	44:RA:280:LYS:HZ2	1.79	0.48
44:QA:405:VAL:CG1	44:QA:409:VAL:HG23	2.43	0.48
45:QB:3:GLU:HB3	45:QB:49:VAL:HA	1.94	0.48
45:QB:164:MET:HE2	45:QB:197:ASP:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:344:TRP:O	44:QC:398:MET:HE2	2.14	0.48
44:QC:119:LEU:O	44:QC:122:ILE:HB	2.14	0.48
45:QD:163:ILE:HG21	45:QD:251:ARG:CD	2.44	0.48
45:QD:309:ARG:CB	45:QD:426:GLN:HE22	2.26	0.48
45:QF:252:LYS:HD2	44:QG:100:ALA:HA	1.96	0.48
44:QG:179:THR:HG21	46:QG:501:GTP:O3'	2.14	0.48
44:QG:229:ARG:HG2	44:QG:229:ARG:HH11	1.78	0.48
44:QG:288:VAL:CA	44:QG:291:ILE:HG12	2.43	0.48
44:QG:394:LYS:O	44:QG:397:LEU:HB2	2.14	0.48
45:QH:173:PRO:HD3	45:QH:380:ARG:HD3	1.95	0.48
45:QH:306:ARG:HA	45:QH:340:TYR:CE1	2.49	0.48
44:QI:229:ARG:HH21	44:QI:232:ALA:HB3	1.78	0.48
44:QI:231:ILE:O	44:QI:234:VAL:N	2.47	0.48
45:QJ:74:ASP:HB2	45:QJ:75:SER:CB	2.39	0.48
44:QK:267:PHE:CD2	44:QK:388:PHE:HZ	2.32	0.48
44:QM:183:GLU:CG	44:QM:184:PRO:HD3	2.43	0.48
45:QN:134:GLN:HA	45:QN:165:GLU:HB2	1.95	0.48
45:QN:185:ALA:O	45:QN:189:VAL:HG23	2.13	0.48
45:RB:290:THR:HA	45:RB:293:MET:SD	2.53	0.48
45:RB:315:ALA:HA	45:RB:366:THR:O	2.13	0.48
44:RC:157:LEU:HB2	44:RC:161:TYR:CD1	2.48	0.48
44:RC:237:SER:HB3	44:RC:318:MET:CE	2.44	0.48
44:RC:291:ILE:HG13	44:RC:292:THR:N	2.28	0.48
45:RD:318:ARG:NH2	45:RD:356:ILE:O	2.47	0.48
44:RE:209:ILE:O	44:RE:212:ILE:HB	2.14	0.48
44:RE:414:GLU:N	44:RE:417:GLU:HG3	2.29	0.48
44:RG:377:MET:O	44:RG:378:ILE:HD13	2.13	0.48
44:RK:171:ILE:CG1	44:RK:204:LEU:HD23	2.41	0.48
45:RL:322:SER:CB	44:RM:223:THR:HB	2.44	0.48
45:RN:271:ALA:HB1	45:RN:272:PRO:CA	2.36	0.48
45:RN:327:ASP:HA	45:RN:330:MET:CE	2.44	0.48
45:SB:230:SER:HA	45:SB:233:MET:CE	2.44	0.48
45:SD:1:MET:HE3	45:SD:129:CYS:HB3	1.94	0.48
45:SD:249:ASP:OD2	44:SE:98:ASP:HA	2.14	0.48
45:SF:36:TYR:CD1	45:SF:44:LEU:HD21	2.49	0.48
44:SG:208:ALA:HB2	44:SG:304:LYS:HE3	1.95	0.48
45:SH:295:ASP:OD1	45:SH:296:ALA:N	2.46	0.48
44:SI:5:ILE:HD13	44:SI:125:LEU:HD23	1.96	0.48
45:SJ:163:ILE:HG21	45:SJ:251:ARG:HD2	1.96	0.48
45:SJ:246:LEU:CD1	44:SK:224:TYR:HE2	2.27	0.48
45:SJ:318:ARG:HA	45:SJ:354:CYS:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:329:ASN:HB3	45:SL:175:VAL:HG12	1.95	0.48
45:SL:47:ILE:O	45:SL:51:TYR:HB2	2.14	0.48
45:SL:294:PHE:CE2	45:SL:333:VAL:HG11	2.43	0.48
45:TB:67:ASP:O	45:TB:92:PHE:HA	2.14	0.48
45:TB:180:VAL:HG22	45:TB:180:VAL:O	2.13	0.48
45:TB:238:CYS:HB2	45:TB:318:ARG:NE	2.22	0.48
44:TC:115:VAL:HG22	44:TC:119:LEU:HD23	1.95	0.48
44:TC:244:PHE:HD2	44:TC:358:GLN:HB2	1.78	0.48
44:TC:315:CYS:HA	44:TC:379:SER:OG	2.14	0.48
44:TC:437:ILE:HG13	44:TC:437:ILE:O	2.14	0.48
45:TD:19:LYS:HE2	45:TD:19:LYS:HA	1.95	0.48
45:TD:101:TRP:HD1	45:TD:145:SER:OG	1.96	0.48
45:TD:285:THR:O	45:TD:289:LEU:N	2.47	0.48
45:TD:351:SER:OG	44:TE:179:THR:HA	2.13	0.48
44:TE:287:SER:O	44:TE:291:ILE:HG23	2.14	0.48
45:TF:168:SER:HG	45:TF:192:LEU:HD21	1.79	0.48
45:TF:257:LEU:O	45:TF:259:PRO:HD3	2.13	0.48
44:TG:54:SER:HB3	44:TG:64:ARG:NH2	2.29	0.48
45:TH:86:ARG:NH2	45:TH:123:GLU:OE2	2.45	0.48
44:TI:159:VAL:HG13	44:TI:160:ASP:N	2.29	0.48
44:TI:230:LEU:HD11	44:TI:275:ILE:HD11	1.95	0.48
45:TJ:410:GLU:O	45:TJ:413:SER:OG	2.26	0.48
44:TK:70:LEU:CD1	44:TK:99:ALA:HB2	2.44	0.48
44:TK:295:ALA:O	44:TK:301:MET:HE1	2.14	0.48
44:TK:332:ILE:HA	44:TK:335:ILE:CD1	2.38	0.48
45:TL:1:MET:SD	45:TL:2:ARG:HD3	2.54	0.48
45:TL:163:ILE:HD11	45:TL:250:LEU:HD12	1.95	0.48
44:TM:155:GLU:HG2	44:TM:197:HIS:NE2	2.29	0.48
45:TN:55:THR:CB	45:TN:87:PRO:HD2	2.44	0.48
45:TN:419:VAL:O	45:TN:423:GLN:HG3	2.13	0.48
44:UA:437:ILE:HG13	44:UA:437:ILE:O	2.14	0.48
45:UB:256:ASN:HD22	45:UB:350:LYS:CD	2.19	0.48
44:UC:242:LEU:HD21	44:UC:251:ASP:OD1	2.14	0.48
45:UD:183:TYR:CE1	45:UD:388:MET:HB3	2.49	0.48
44:UE:189:LEU:HD21	44:UE:421:ALA:HB2	1.96	0.48
44:UE:213:CYS:O	44:UE:217:LEU:HB2	2.14	0.48
44:UE:287:SER:O	44:UE:291:ILE:HG12	2.14	0.48
44:UE:288:VAL:HA	44:UE:373:ARG:HH12	1.78	0.48
44:UE:390:ARG:HG3	44:UE:391:LEU:N	2.29	0.48
45:UF:99:ASN:C	45:UF:142:GLY:HA3	2.34	0.48
45:UF:330:MET:CG	45:UF:349:ILE:HB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:326:LYS:HD3	45:UH:212:PHE:CZ	2.49	0.48
45:UH:2:ARG:NH2	45:UH:240:LEU:HA	2.29	0.48
45:UH:64:ILE:HD11	45:UH:123:GLU:HG3	1.95	0.48
44:UI:176:GLN:HG2	44:UI:177:VAL:N	2.28	0.48
45:UJ:251:ARG:HB2	44:UK:100:ALA:HB2	1.96	0.48
45:UJ:284:LEU:HD22	45:UJ:363:MET:HE3	1.96	0.48
44:UK:202:VAL:HG12	44:UK:268:MET:SD	2.54	0.48
45:UL:68:LEU:HD23	45:UL:97:ALA:CB	2.42	0.48
44:VA:115:VAL:CG2	44:VA:156:ARG:HD2	2.43	0.48
44:VA:181:VAL:HG12	45:VB:347:ASN:O	2.14	0.48
44:VA:313:MET:HE1	44:VA:344:VAL:HG13	1.95	0.48
45:VB:315:ALA:HB1	45:VB:317:PHE:CE1	2.48	0.48
45:VD:117:LEU:HD21	45:VD:121:ARG:HH22	1.79	0.48
45:VD:148:GLY:O	45:VD:152:ILE:HG12	2.14	0.48
45:VD:176:SER:HB2	45:VD:181:GLU:OE1	2.14	0.48
44:VG:141:VAL:CG2	44:VG:170:THR:HG22	2.41	0.48
45:VH:274:THR:HG22	45:VH:278:SER:HB3	1.96	0.48
44:VI:79:ARG:O	44:VI:84:ARG:HG3	2.14	0.48
44:VI:88:HIS:CG	44:VI:91:GLN:HG2	2.49	0.48
44:VI:387:VAL:HA	44:VI:390:ARG:HH11	1.77	0.48
45:VJ:284:LEU:O	45:VJ:362:LYS:NZ	2.43	0.48
44:VK:270:SER:CB	44:VK:378:ILE:HD12	2.44	0.48
45:VL:44:LEU:HD23	45:VL:47:ILE:HD12	1.96	0.48
45:VL:207:LEU:HD22	45:VL:225:LEU:HB3	1.95	0.48
45:VN:118:ASP:CA	45:VN:148:GLY:HA2	2.44	0.48
44:WC:174:SER:CB	44:WC:207:GLU:HB2	2.44	0.48
45:WD:265:PHE:CD2	45:WD:378:PHE:HZ	2.32	0.48
44:WE:428:LEU:O	44:WE:431:ASP:HB2	2.14	0.48
45:WF:310:TYR:HB2	45:WF:341:PHE:CE2	2.49	0.48
45:WF:341:PHE:HD2	45:WF:348:ASN:HD21	1.61	0.48
44:WG:2:ARG:HG3	44:WG:242:LEU:HD22	1.96	0.48
44:WG:143:GLY:HA3	46:WG:501:GTP:O2B	2.14	0.48
44:WG:377:MET:O	44:WG:378:ILE:HD13	2.13	0.48
45:WJ:1:MET:C	45:WJ:2:ARG:HG2	2.35	0.48
45:WJ:387:ALA:O	45:WJ:390:ARG:HG2	2.13	0.48
45:WJ:396:HIS:HA	45:WJ:399:THR:OG1	2.13	0.48
2:0A:104:ARG:HD2	35:7R:60:GLY:H	1.78	0.47
3:0B:200:PHE:CE2	44:KI:370:LYS:HD2	2.49	0.47
3:0B:318:VAL:CG1	45:KL:77:ARG:HH11	2.26	0.47
8:0G:162:ALA:O	44:KM:245:ASP:HB3	2.13	0.47
16:0X:3:ARG:NH1	45:MD:15:GLN:HE21	2.00	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:273:TRP:HE1	45:IL:276:ARG:HG2	1.77	0.47
21:1K:131:VAL:HG23	45:GF:33:THR:HG21	1.95	0.47
22:1L:828:PRO:HA	35:7R:100:GLN:HG2	1.96	0.47
14:1U:130:ILE:HD12	44:VC:42:ILE:CG2	2.44	0.47
27:1W:176:GLU:OE1	45:LD:218:THR:OG1	1.96	0.47
22:2L:753:ARG:HE	45:BL:362:LYS:HZ2	1.59	0.47
26:2R:9:PRO:CG	45:MJ:273:LEU:HD21	2.44	0.47
16:2X:99:VAL:HG23	44:MG:370:LYS:HZ2	1.77	0.47
31:3H:187:LEU:HD11	45:AH:276:ARG:HH22	1.79	0.47
26:3R:146:ILE:HD11	45:BN:276:ARG:CG	2.43	0.47
37:5D:56:ILE:HB	45:KN:391:ARG:NE	2.28	0.47
38:5G:63:HIS:CD2	45:NJ:58:ARG:HB3	2.48	0.47
38:5H:42:TYR:HD2	44:OK:281:ALA:HB3	1.79	0.47
39:5J:77:LYS:HD2	39:5J:78:THR:N	2.29	0.47
39:5J:110:LYS:NZ	45:JJ:409:THR:OG1	2.32	0.47
11:5Q:36:ARG:HA	11:5Q:46:VAL:O	2.13	0.47
35:5R:16:CYS:SG	35:5R:17:PHE:HB2	2.54	0.47
35:5R:409:PRO:HG2	35:5R:411:LYS:HZ1	1.78	0.47
35:5R:507:ARG:NH1	44:EI:42:ILE:HD11	2.29	0.47
35:5R:566:PHE:CZ	35:5R:570:VAL:HG11	2.49	0.47
35:5R:580:LEU:HD22	35:5R:584:GLU:CB	2.45	0.47
36:5S:89:TRP:HZ3	36:5S:93:PRO:HB3	1.79	0.47
40:6F:62:GLN:H	44:IE:84:ARG:HH22	1.60	0.47
11:6Q:78:MET:CE	11:6Q:80:ILE:CD1	2.84	0.47
35:7R:275:ILE:HD11	35:7R:290:ILE:HB	1.95	0.47
42:8L:132:UNK:HA	42:8L:135:UNK:CB	2.44	0.47
42:8N:323:UNK:O	42:8N:327:UNK:N	2.47	0.47
43:8P:73:UNK:O	43:8P:77:UNK:N	2.47	0.47
44:AA:161:TYR:HB3	44:AA:164:LYS:HZ3	1.74	0.47
45:AB:31:ASP:HB3	45:AB:32:PRO:HD2	1.94	0.47
45:AB:85:PHE:CB	45:AB:90:PHE:HZ	2.15	0.47
44:AC:102:ASN:HA	44:AC:408:TYR:HE2	1.78	0.47
45:AD:6:HIS:CB	45:AD:134:GLN:HE21	2.23	0.47
45:AD:12:CYS:CB	45:AD:138:SER:HB2	2.44	0.47
45:AD:183:TYR:OH	45:AD:388:MET:HB3	2.14	0.47
45:AD:232:ALA:HB1	45:AD:268:ILE:HD12	1.95	0.47
44:AG:263:PRO:HD3	45:AJ:396:HIS:NE2	2.29	0.47
44:AI:168:GLY:O	44:AI:201:ALA:HA	2.14	0.47
44:AK:140:SER:OG	46:AK:501:GTP:O2B	2.32	0.47
45:AL:167:PHE:HE2	45:AL:200:MET:CE	2.26	0.47
45:AL:238:CYS:CB	45:AL:318:ARG:HH22	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:268:MET:HG3	44:AM:378:ILE:CG2	2.44	0.47
45:AN:235:GLY:O	45:AN:316:LEU:HD22	2.14	0.47
45:AN:258:ILE:HG23	45:AN:263:LEU:O	2.14	0.47
44:BA:307:PRO:HB3	44:BA:312:TYR:OH	2.13	0.47
45:BB:289:LEU:HD13	45:BB:365:VAL:HG23	1.96	0.47
44:BC:132:LEU:O	44:BC:164:LYS:NZ	2.36	0.47
45:BD:404:ASP:OD1	45:BD:406:MET:HB2	2.13	0.47
44:BE:164:LYS:HE2	44:BE:164:LYS:HA	1.96	0.47
44:BE:185:TYR:HE1	44:BE:398:MET:SD	2.37	0.47
45:BF:217:LEU:HD12	45:BF:217:LEU:O	2.14	0.47
45:BF:247:ASN:O	45:BF:252:LYS:NZ	2.39	0.47
44:BG:56:THR:HG21	44:BG:60:LYS:HG3	1.96	0.47
44:BG:200:VAL:HG13	44:BG:268:MET:CE	2.44	0.47
45:BH:107:THR:HG23	45:BH:108:GLU:HG2	1.96	0.47
44:BI:204:LEU:CD2	44:BI:302:MET:HG2	2.43	0.47
44:BK:260:VAL:HG13	44:BK:265:ILE:O	2.14	0.47
45:BL:149:THR:OG1	45:BL:191:GLN:HB2	2.13	0.47
44:BM:274:PRO:HB2	44:BM:276:ILE:HD12	1.94	0.47
45:BN:309:ARG:O	45:BN:372:THR:HG23	2.14	0.47
45:BN:360:GLY:C	45:BN:361:LEU:HD12	2.35	0.47
44:CA:20:CYS:HA	44:CA:232:ALA:CB	2.43	0.47
44:CA:296:PHE:HE2	44:CA:335:ILE:HG21	1.79	0.47
46:CA:501:GTP:O2A	46:CA:501:GTP:H8	1.97	0.47
45:CB:25:SER:OG	45:CB:51:TYR:OH	2.11	0.47
45:CB:100:ASN:HB3	45:CB:103:LYS:HB3	1.95	0.47
44:CC:11:GLN:CA	44:CC:14:ILE:HD12	2.44	0.47
44:CC:212:ILE:HD13	44:CC:215:ARG:HH22	1.79	0.47
45:CD:169:VAL:HA	45:CD:202:ILE:O	2.14	0.47
45:CD:254:ALA:HB1	44:CE:407:TRP:CH2	2.49	0.47
45:CF:178:THR:HB	45:CF:181:GLU:HG2	1.95	0.47
44:CG:115:VAL:O	44:CG:119:LEU:HD23	2.13	0.47
45:CH:87:PRO:HG2	45:DH:281:TYR:CE2	2.49	0.47
44:CI:96:LYS:HE2	44:CI:96:LYS:HA	1.96	0.47
45:CJ:156:ARG:NH1	45:CJ:162:ARG:O	2.47	0.47
44:CK:118:CYS:SG	44:CK:153:LEU:HD21	2.54	0.47
44:CK:257:THR:HA	45:CL:397:TRP:CE2	2.48	0.47
45:CL:318:ARG:HG2	45:CL:357:PRO:HA	1.95	0.47
44:CM:2:ARG:NH1	44:CM:243:ARG:HB3	2.28	0.47
44:CM:2:ARG:HH12	44:CM:243:ARG:HB3	1.78	0.47
44:CM:168:GLY:O	44:CM:201:ALA:HB1	2.14	0.47
44:CM:192:HIS:ND1	44:CM:424:ASP:OD2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:338:LYS:HZ1	44:CM:340:THR:CG2	2.27	0.47
45:CN:145:SER:O	45:CN:149:THR:HG22	2.14	0.47
45:CN:222:TYR:CD1	45:CN:225:LEU:HD12	2.49	0.47
45:CN:293:MET:CG	45:CN:367:PHE:HB2	2.44	0.47
44:DA:344:VAL:HG11	44:DA:346:TRP:CE2	2.49	0.47
44:DC:16:VAL:HA	44:DC:228:ASN:ND2	2.29	0.47
44:DC:145:THR:O	44:DC:149:LEU:N	2.33	0.47
45:DD:52:ASN:HD22	45:DD:62:ARG:HB3	1.79	0.47
44:DE:3:GLU:CG	44:DE:129:CYS:HB3	2.44	0.47
44:DE:88:HIS:CG	44:DE:91:GLN:HE22	2.32	0.47
44:DE:295:ALA:HB1	44:DE:377:MET:SD	2.54	0.47
44:DE:349:THR:HG23	44:DE:349:THR:O	2.13	0.47
45:DF:114:ASP:OD1	45:DF:115:SER:N	2.47	0.47
44:DG:35:GLN:NE2	44:DG:36:MET:O	2.47	0.47
44:DG:437:ILE:HG13	44:DG:437:ILE:O	2.13	0.47
44:DI:422:ARG:HH12	44:DI:426:ALA:HB2	1.78	0.47
45:DJ:236:VAL:HG13	45:DJ:237:THR:HG23	1.96	0.47
44:DK:278:ALA:HB2	44:DK:369:ALA:HB2	1.96	0.47
45:DL:2:ARG:NH2	45:DL:240:LEU:HD12	2.29	0.47
45:DL:202:ILE:HD13	45:DL:229:VAL:CG1	2.44	0.47
44:DM:75:ILE:HD12	44:DM:92:LEU:HD23	1.95	0.47
44:DM:206:ASN:OD1	44:DM:207:GLU:N	2.47	0.47
45:DN:85:PHE:HD2	45:DN:90:PHE:CZ	2.31	0.47
45:DN:187:LEU:HD11	45:DN:408:PHE:CE1	2.49	0.47
45:DN:254:ALA:HA	45:DN:258:ILE:HD13	1.94	0.47
45:DN:257:LEU:HA	45:DN:312:THR:HG21	1.95	0.47
45:DN:382:ALA:O	45:DN:386:THR:HG22	2.14	0.47
44:EA:210:TYR:OH	44:EA:227:LEU:HD11	2.13	0.47
44:EA:319:TYR:HB2	44:EA:355:ILE:CG1	2.44	0.47
44:EA:344:VAL:HG22	44:EA:345:ASP:N	2.29	0.47
45:EB:73:MET:HE3	45:EB:92:PHE:HB3	1.93	0.47
45:EB:170:VAL:N	45:EB:202:ILE:O	2.47	0.47
44:EC:23:LEU:HD11	44:EC:361:THR:CG2	2.44	0.47
44:EE:67:PHE:C	44:EE:68:LEU:HD12	2.35	0.47
44:EE:264:ARG:HH11	44:EE:265:ILE:HG12	1.78	0.47
44:EE:265:ILE:HD13	44:EE:432:TYR:CE1	2.49	0.47
45:EF:1:MET:C	45:EF:2:ARG:HG2	2.33	0.47
45:EF:107:THR:HG1	45:EF:108:GLU:CD	2.12	0.47
45:EF:139:LEU:HG	45:EF:188:SER:OG	2.14	0.47
44:EG:349:THR:HG23	45:EH:179:VAL:CA	2.35	0.47
45:EH:4:ILE:HB	45:EH:132:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:173:PRO:CD	45:EJ:380:ARG:HH11	2.27	0.47
45:EJ:246:LEU:HD21	46:EK:501:GTP:H8	1.78	0.47
44:EK:140:SER:OG	46:EK:501:GTP:O2A	2.31	0.47
45:EL:109:GLY:HA2	45:EL:147:MET:CE	2.42	0.47
44:EM:278:ALA:HA	44:EM:281:ALA:CB	2.44	0.47
44:FC:50:ASN:OD1	44:FC:51:THR:N	2.47	0.47
44:FC:229:ARG:HH11	44:FC:363:VAL:HG21	1.79	0.47
45:FD:21:TRP:CE3	45:FD:85:PHE:HE1	2.31	0.47
45:FD:29:GLY:HA3	45:FD:43:GLN:NE2	2.29	0.47
45:FD:318:ARG:CA	45:FD:354:CYS:HB3	2.31	0.47
44:FE:184:PRO:HB3	44:FE:394:LYS:CG	2.44	0.47
45:FF:99:ASN:CA	45:FF:142:GLY:HA3	2.27	0.47
44:FG:419:SER:O	44:FG:423:GLU:HG3	2.14	0.47
44:FI:210:TYR:CB	45:FJ:324:LYS:HE2	2.43	0.47
44:FI:288:VAL:HG22	44:FI:373:ARG:HH21	1.78	0.47
45:FJ:86:ARG:HE	45:FJ:87:PRO:CD	2.27	0.47
45:FJ:221:THR:HG22	45:FJ:224:ASP:OD2	2.14	0.47
45:FJ:268:ILE:O	45:FJ:300:MET:HE2	2.14	0.47
44:FK:242:LEU:CD1	44:FK:252:ILE:HG13	2.44	0.47
46:FK:501:GTP:C8	45:FL:246:LEU:HD21	2.49	0.47
44:FM:68:LEU:HD21	44:FM:118:CYS:CB	2.43	0.47
44:FM:209:ILE:HG21	44:FM:227:LEU:HD22	1.95	0.47
44:GA:78:VAL:HG13	44:GA:92:LEU:CD2	2.41	0.47
44:GA:435:VAL:HA	45:GD:391:ARG:HH22	1.78	0.47
45:GB:244:GLY:HA2	45:GB:355:ASP:H	1.78	0.47
45:GB:268:ILE:HG13	45:GB:269:GLY:N	2.29	0.47
45:GB:285:THR:CB	45:GB:287:PRO:HD2	2.44	0.47
44:GC:320:ARG:NH2	44:GC:360:PRO:HA	2.28	0.47
44:GE:67:PHE:O	44:GE:68:LEU:HD12	2.14	0.47
45:GF:52:ASN:OD1	45:GF:62:ARG:NH2	2.46	0.47
45:GF:378:PHE:HA	45:GF:381:VAL:HG12	1.97	0.47
44:GG:325:PRO:HB3	44:GG:355:ILE:CD1	2.44	0.47
45:GH:329:GLN:CA	45:GH:332:ASN:HB3	2.43	0.47
44:GI:306:ASP:O	44:GI:308:ARG:N	2.47	0.47
45:GJ:63:ALA:O	45:GJ:64:ILE:HD13	2.14	0.47
45:GJ:290:THR:O	45:GJ:293:MET:N	2.47	0.47
44:GK:5:ILE:CD1	44:GK:125:LEU:HB3	2.35	0.47
44:GK:7:ILE:HD11	44:GK:135:PHE:HD1	1.79	0.47
44:GK:251:ASP:HB2	44:GK:257:THR:HG1	1.79	0.47
45:GL:1:MET:C	45:GL:2:ARG:HG2	2.34	0.47
45:GL:65:LEU:HD22	45:GL:90:PHE:HE1	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:284:GLU:HG3	44:GM:286:LEU:CD2	2.37	0.47
44:GM:318:MET:O	44:GM:375:VAL:HA	2.13	0.47
45:GN:175:VAL:HG21	45:GN:205:GLU:HB2	1.93	0.47
44:HA:70:LEU:HD13	44:HA:110:ILE:CD1	2.44	0.47
44:HA:146:GLY:N	46:HA:501:GTP:O1B	2.46	0.47
44:HA:274:PRO:HG3	44:HA:286:LEU:HD12	1.95	0.47
45:HD:68:LEU:HD23	45:HD:97:ALA:N	2.28	0.47
45:HD:143:THR:HG23	45:HD:144:GLY:N	2.29	0.47
45:HD:310:TYR:HA	45:HD:371:SER:CB	2.44	0.47
44:HE:213:CYS:O	44:HE:217:LEU:HB2	2.13	0.47
44:HE:256:GLN:C	45:HH:397:TRP:HE1	2.12	0.47
44:HE:332:ILE:HG23	44:HE:351:PHE:CD2	2.49	0.47
44:HG:5:ILE:HD12	44:HG:135:PHE:HE1	1.79	0.47
44:HG:276:ILE:HG23	44:HG:281:ALA:CB	2.44	0.47
45:HH:311:LEU:O	45:HH:345:ILE:HD13	2.13	0.47
44:HK:186:ASN:OD1	44:HK:187:SER:N	2.46	0.47
45:HL:34:GLY:O	45:HL:58:ARG:HA	2.14	0.47
45:HL:130:LEU:HD21	45:HL:133:PHE:CE1	2.49	0.47
45:HL:330:MET:HE2	45:HL:330:MET:CA	2.41	0.47
45:HL:391:ARG:HH11	45:HL:391:ARG:HG3	1.79	0.47
44:HM:292:THR:O	44:HM:295:ALA:HB3	2.14	0.47
45:HN:146:GLY:O	45:HN:147:MET:HE2	2.14	0.47
45:HN:209:ASP:OD1	45:HN:213:ARG:HG3	2.14	0.47
45:IB:217:LEU:HD12	45:IB:217:LEU:O	2.13	0.47
45:IB:257:LEU:HD12	45:IB:258:ILE:N	2.28	0.47
45:IB:309:ARG:CZ	45:IB:342:VAL:HA	2.44	0.47
44:IC:1:MET:HE1	45:IF:94:GLN:HG3	1.95	0.47
44:IC:229:ARG:HG3	44:IC:229:ARG:HH11	1.79	0.47
44:IC:437:ILE:O	44:IC:437:ILE:HG13	2.14	0.47
45:ID:65:LEU:HD11	45:ID:85:PHE:CD1	2.49	0.47
45:ID:240:LEU:HD13	45:ID:250:LEU:HD23	1.95	0.47
44:IG:67:PHE:HB2	44:IG:92:LEU:HG	1.94	0.47
44:IG:175:PRO:HG2	44:IG:304:LYS:HG3	1.96	0.47
45:IH:55:THR:CG2	44:JE:286:LEU:HD21	2.44	0.47
44:II:7:ILE:CD1	44:II:66:VAL:HG23	2.44	0.47
44:II:63:PRO:HG2	44:II:86:LEU:HG	1.95	0.47
44:II:237:SER:HA	44:II:320:ARG:CZ	2.44	0.47
45:IJ:242:PHE:HD2	45:IJ:356:ILE:HB	1.76	0.47
44:IK:88:HIS:HB3	44:IK:91:GLN:CG	2.44	0.47
44:IK:184:PRO:O	44:IK:188:ILE:HG12	2.14	0.47
44:IK:212:ILE:HD13	44:IK:215:ARG:HH22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:108:TYR:O	44:IM:112:LYS:HE3	2.13	0.47
44:IM:306:ASP:OD1	44:IM:308:ARG:HB2	2.14	0.47
45:IN:45:GLU:HB3	45:IN:46:ARG:NH1	2.21	0.47
45:IN:139:LEU:HB3	45:IN:185:ALA:HA	1.96	0.47
44:JA:224:TYR:CG	45:JB:323:THR:HG21	2.49	0.47
44:JA:407:TRP:NE1	45:JB:255:VAL:HA	2.29	0.47
44:JE:23:LEU:HD21	44:JE:233:GLN:OE1	2.13	0.47
44:JE:331:SER:O	44:JE:334:THR:OG1	2.25	0.47
44:JE:381:SER:O	44:JE:384:ILE:HG22	2.13	0.47
45:JF:139:LEU:HD22	45:JF:188:SER:CB	2.44	0.47
45:JF:167:PHE:CD1	45:JF:233:MET:HG2	2.49	0.47
44:JG:36:MET:SD	44:JG:38:SER:N	2.86	0.47
44:JG:212:ILE:HD12	44:JG:300:ASN:OD1	2.12	0.47
45:JH:7:ILE:HD12	45:JH:135:ILE:HD12	1.96	0.47
45:JH:182:PRO:O	45:JH:186:THR:HG23	2.14	0.47
45:JH:284:LEU:HD12	45:JH:362:LYS:HE3	1.94	0.47
44:JI:296:PHE:CE2	44:JI:335:ILE:HG12	2.48	0.47
44:JK:76:ASP:O	44:JK:80:THR:HG22	2.14	0.47
44:JK:183:GLU:HG3	44:JK:184:PRO:HD3	1.96	0.47
44:JK:259:LEU:HD13	44:JK:268:MET:SD	2.54	0.47
44:JM:62:VAL:HG13	44:JM:62:VAL:O	2.14	0.47
44:KA:1:MET:N	44:KA:3:GLU:OE2	2.44	0.47
44:KA:306:ASP:OD1	44:KA:308:ARG:NH2	2.40	0.47
45:KB:64:ILE:HG13	45:KB:89:ASN:ND2	2.29	0.47
45:KD:345:ILE:O	45:KD:348:ASN:HB3	2.13	0.47
44:KE:138:PHE:HE1	44:KE:169:PHE:HD2	1.62	0.47
44:KE:195:LEU:HD22	44:KE:428:LEU:CD1	2.42	0.47
44:KE:326:LYS:HD3	45:KH:212:PHE:CZ	2.49	0.47
45:KF:245:GLN:C	45:KF:246:LEU:HD12	2.35	0.47
45:KF:286:VAL:HG21	45:KF:325:GLU:HG3	1.95	0.47
44:KG:326:LYS:CE	45:KJ:220:PRO:HD2	2.44	0.47
45:KH:21:TRP:CZ2	45:KH:61:PRO:HB2	2.49	0.47
45:KH:296:ALA:HA	45:KH:299:MET:HE1	1.95	0.47
44:KI:350:GLY:HA2	45:KL:179:VAL:CG2	2.41	0.47
45:KJ:187:LEU:HD11	45:KJ:408:PHE:HE1	1.78	0.47
45:KJ:342:VAL:HG21	45:KJ:344:TRP:NE1	2.29	0.47
45:KJ:392:LYS:HB2	45:KJ:395:LEU:HB3	1.95	0.47
44:KK:174:SER:OG	44:KK:207:GLU:HG3	2.14	0.47
44:KK:223:THR:CG2	44:KK:224:TYR:N	2.77	0.47
44:KK:329:ASN:HD22	45:KN:208:TYR:HE2	1.61	0.47
45:KL:104:GLY:O	45:KL:147:MET:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:263:LEU:HG	45:KL:422:TYR:CE1	2.49	0.47
45:KN:98:GLY:O	45:KN:99:ASN:OD1	2.32	0.47
45:KN:268:ILE:C	45:KN:300:MET:HE2	2.35	0.47
45:LB:187:LEU:HD21	45:LB:408:PHE:CD1	2.49	0.47
45:LB:192:LEU:CD1	45:LB:196:ALA:HB2	2.41	0.47
44:LC:136:LEU:CD1	44:LC:235:ILE:HD11	2.34	0.47
44:LE:105:ARG:HD2	45:LF:251:ARG:NH2	2.28	0.47
44:LE:393:HIS:NE2	44:LE:397:LEU:HD11	2.29	0.47
45:LF:152:ILE:CD1	45:LF:164:MET:HE1	2.44	0.47
45:LF:203:ASP:HB2	45:LF:302:ALA:H	1.79	0.47
44:LG:397:LEU:HD21	45:LH:344:TRP:HA	1.96	0.47
45:LH:167:PHE:CE2	45:LH:233:MET:HG3	2.49	0.47
45:LH:174:LYS:HZ1	45:LH:205:GLU:HB2	1.79	0.47
44:LI:14:ILE:HD11	44:LI:69:ASP:CB	2.31	0.47
45:LJ:257:LEU:HD23	45:LJ:266:PHE:CE1	2.49	0.47
45:LJ:269:GLY:HA2	45:LJ:300:MET:HE2	1.95	0.47
44:LM:70:LEU:CD1	44:LM:110:ILE:HD11	2.39	0.47
44:LM:188:ILE:HD11	44:LM:391:LEU:HB3	1.96	0.47
45:LN:2:ARG:NH2	45:LN:240:LEU:O	2.47	0.47
44:MA:209:ILE:CG1	44:MA:227:LEU:HD22	2.42	0.47
44:MA:315:CYS:CB	44:MA:379:SER:HB3	2.44	0.47
45:MB:4:ILE:HD11	45:MB:50:TYR:CE1	2.49	0.47
45:MB:113:ILE:CA	45:MB:116:VAL:HG12	2.43	0.47
45:MB:187:LEU:HD21	45:MB:408:PHE:CD1	2.49	0.47
44:ME:51:THR:HG23	44:ME:52:PHE:N	2.28	0.47
44:ME:301:MET:HG3	44:ME:307:PRO:HG2	1.95	0.47
44:MG:253:THR:HG23	45:MJ:98:GLY:HA2	1.96	0.47
44:MG:325:PRO:HG3	44:MG:355:ILE:HG13	1.95	0.47
45:MH:240:LEU:HD12	45:MH:240:LEU:O	2.14	0.47
45:MH:334:GLN:HE22	45:MH:347:ASN:N	2.12	0.47
44:MM:136:LEU:HD22	44:MM:167:LEU:HD22	1.95	0.47
44:MM:141:VAL:HG21	44:MM:172:TYR:HE1	1.79	0.47
44:NA:5:ILE:HG12	44:NA:64:ARG:HD2	1.95	0.47
44:NA:151:SER:O	44:NA:155:GLU:HG3	2.14	0.47
44:NC:326:LYS:NZ	45:NF:220:PRO:HG2	2.29	0.47
44:NC:406:HIS:CE1	45:ND:260:PHE:HA	2.48	0.47
45:ND:99:ASN:ND2	48:ND:501:GDP:O2A	2.37	0.47
45:ND:113:ILE:HG23	45:ND:117:LEU:HD11	1.95	0.47
45:ND:215:LEU:CD2	45:ND:217:LEU:HD23	2.44	0.47
45:NF:99:ASN:OD1	45:NF:142:GLY:N	2.47	0.47
45:NF:372:THR:HA	45:NF:422:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:53:PHE:HE1	44:NG:63:PRO:HG3	1.78	0.47
44:NG:93:ILE:HD12	44:NG:117:LEU:HD23	1.96	0.47
45:NH:4:ILE:HB	45:NH:50:TYR:HE1	1.79	0.47
44:NI:186:ASN:OD1	44:NI:187:SER:N	2.47	0.47
44:NI:274:PRO:HG3	44:NI:286:LEU:HD21	1.95	0.47
44:NI:319:TYR:CD2	44:NI:375:VAL:HG23	2.49	0.47
45:NJ:86:ARG:HA	45:OJ:281:TYR:CE2	2.49	0.47
45:NL:296:ALA:HB2	45:NL:306:ARG:HE	1.79	0.47
45:NL:355:ASP:O	45:NL:356:ILE:HD13	2.14	0.47
45:NL:379:LYS:O	45:NL:382:ALA:HB3	2.14	0.47
44:NM:186:ASN:O	44:NM:190:SER:HB3	2.14	0.47
44:NM:395:PHE:HE2	44:NM:422:ARG:HD3	1.79	0.47
45:NN:44:LEU:HA	45:NN:47:ILE:CD1	2.44	0.47
44:OA:72:PRO:HG2	45:OB:1:MET:HE1	1.95	0.47
44:OA:267:PHE:C	44:OA:268:MET:HG2	2.33	0.47
45:OB:46:ARG:HB2	45:OB:241:ARG:HA	1.95	0.47
45:OB:140:GLY:C	45:OB:184:ASN:HD21	2.18	0.47
45:OB:229:VAL:CG1	45:OB:233:MET:HG3	2.38	0.47
45:OB:267:MET:CE	45:OB:301:CYS:HB2	2.43	0.47
44:OC:432:TYR:HA	44:OC:435:VAL:HG12	1.95	0.47
45:OD:204:ASN:HA	45:OD:207:LEU:HG	1.96	0.47
45:OF:217:LEU:HG	45:OF:220:PRO:CD	2.28	0.47
44:OG:229:ARG:NH1	44:OG:363:VAL:HG21	2.29	0.47
44:OI:205:ASP:O	44:OI:209:ILE:HG12	2.14	0.47
44:OI:242:LEU:HD21	44:OI:252:ILE:CG2	2.42	0.47
44:OI:262:TYR:HD2	44:OI:265:ILE:HD12	1.79	0.47
45:OJ:248:SER:HB2	45:OJ:252:LYS:HD2	1.95	0.47
45:OJ:383:GLU:OE2	45:OJ:384:GLN:HG3	2.13	0.47
45:OL:263:LEU:HD23	45:OL:422:TYR:CD1	2.49	0.47
44:OM:100:ALA:O	45:ON:255:VAL:HG21	2.14	0.47
44:OM:142:GLY:HA2	44:OM:186:ASN:HD21	1.79	0.47
45:ON:7:ILE:HB	45:ON:135:ILE:HD12	1.96	0.47
45:ON:99:ASN:HA	45:ON:142:GLY:CA	2.27	0.47
45:ON:217:LEU:CD2	45:ON:220:PRO:HG3	2.38	0.47
45:ON:263:LEU:HG	45:ON:422:TYR:HD1	1.79	0.47
44:PC:60:LYS:NZ	44:PC:85:GLN:O	2.46	0.47
44:PC:265:ILE:HG23	44:PC:432:TYR:HE1	1.78	0.47
45:PD:102:ALA:HB2	45:PD:398:TYR:HD1	1.79	0.47
45:PD:133:PHE:CE2	45:PD:155:VAL:CG1	2.96	0.47
44:PE:311:LYS:CD	44:PE:342:GLN:HG3	2.25	0.47
44:PE:318:MET:O	44:PE:375:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:116:VAL:O	45:PF:119:VAL:HG12	2.14	0.47
44:PG:407:TRP:HH2	45:PH:254:ALA:O	1.97	0.47
45:PH:206:ALA:HB3	45:PH:300:MET:HA	1.96	0.47
44:PI:101:ASN:O	44:PI:182:VAL:HG11	2.13	0.47
44:PI:115:VAL:CB	44:PI:152:LEU:HD23	2.44	0.47
45:PJ:186:THR:HG23	45:PJ:415:MET:HE2	1.96	0.47
44:PK:96:LYS:CB	45:PL:1:MET:HE2	2.40	0.47
44:PK:219:ILE:HG23	44:PK:219:ILE:O	2.14	0.47
44:PK:222:PRO:CG	45:PL:324:LYS:HD3	2.44	0.47
44:PK:291:ILE:HG13	44:PK:292:THR:N	2.29	0.47
44:PK:317:MET:HE1	44:PK:319:TYR:CE1	2.49	0.47
45:PL:132:GLY:HA3	45:PL:163:ILE:O	2.14	0.47
45:PL:234:SER:HA	45:PL:237:THR:CG2	2.44	0.47
44:PM:115:VAL:O	44:PM:119:LEU:HD23	2.14	0.47
44:PM:296:PHE:CD2	44:PM:335:ILE:HD12	2.49	0.47
44:PM:318:MET:O	44:PM:375:VAL:HA	2.13	0.47
45:PN:86:ARG:HB3	45:PN:89:ASN:CG	2.33	0.47
45:PN:137:HIS:CE1	45:PN:166:THR:HB	2.48	0.47
45:PN:288:GLU:HA	45:PN:291:GLN:HG3	1.96	0.47
44:QA:209:ILE:CG2	44:QA:227:LEU:HD22	2.44	0.47
45:QB:286:VAL:O	45:QB:290:THR:HG22	2.14	0.47
44:QC:271:SER:HB2	44:QC:377:MET:CG	2.44	0.47
45:QD:8:GLN:HB2	45:QD:13:GLY:O	2.14	0.47
45:QD:410:GLU:HA	45:QD:413:SER:OG	2.14	0.47
44:QG:1:MET:O	44:QG:131:GLY:HA3	2.14	0.47
44:QG:208:ALA:HB3	44:QG:302:MET:O	2.14	0.47
44:QG:231:ILE:O	44:QG:235:ILE:HG12	2.14	0.47
45:QH:360:GLY:O	45:QH:361:LEU:HD23	2.14	0.47
44:QI:273:ALA:HB1	44:QI:274:PRO:HA	1.96	0.47
45:QJ:177:ASP:HB2	48:QJ:501:GDP:O3'	2.14	0.47
45:QJ:251:ARG:HD3	44:QK:105:ARG:NH1	2.28	0.47
44:QK:88:HIS:ND1	44:QK:90:GLU:HG2	2.29	0.47
44:QK:248:LEU:HD23	44:QK:353:VAL:O	2.14	0.47
44:RA:213:CYS:HA	44:RA:217:LEU:HB2	1.96	0.47
45:RD:46:ARG:NH2	44:RE:73:THR:HA	2.28	0.47
45:RD:315:ALA:HB3	45:RD:351:SER:HA	1.95	0.47
45:RD:328:GLU:O	45:RD:332:ASN:N	2.47	0.47
44:RE:33:ASP:O	44:RE:85:GLN:NE2	2.47	0.47
44:RE:273:ALA:HB3	44:RE:375:VAL:HG12	1.93	0.47
44:RE:350:GLY:HA2	45:RF:179:VAL:HG11	1.95	0.47
45:RF:1:MET:C	45:RF:2:ARG:HG2	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RF:177:ASP:OD2	48:RF:501:GDP:O3'	2.30	0.47
44:RG:1:MET:HB2	44:RG:130:THR:CG2	2.44	0.47
44:RG:88:HIS:CE1	44:RG:90:GLU:HG2	2.49	0.47
45:RH:86:ARG:NH1	45:RH:89:ASN:HD21	2.12	0.47
45:RH:199:CYS:N	45:RH:264:HIS:O	2.45	0.47
45:RH:200:MET:HA	45:RH:200:MET:HE3	1.95	0.47
45:RH:318:ARG:HH11	45:RH:358:PRO:CG	2.26	0.47
45:RH:372:THR:HA	45:RH:422:TYR:HE2	1.78	0.47
44:RI:14:ILE:CD1	44:RI:69:ASP:HB2	2.44	0.47
45:RJ:152:ILE:HG22	45:RJ:195:ASN:HB3	1.95	0.47
44:RM:107:HIS:O	44:RM:107:HIS:ND1	2.47	0.47
44:RM:276:ILE:HG23	44:RM:281:ALA:HB2	1.96	0.47
44:RM:353:VAL:HG12	45:RN:177:ASP:CA	2.43	0.47
44:SA:88:HIS:H	44:SA:91:GLN:NE2	2.12	0.47
44:SA:319:TYR:HB3	44:SA:323:VAL:HG11	1.96	0.47
45:SB:206:ALA:O	45:SB:209:ASP:HB3	2.14	0.47
45:SB:351:SER:HB2	44:SC:179:THR:HG23	1.96	0.47
44:SC:69:ASP:OD2	44:SC:74:VAL:HG11	2.14	0.47
44:SC:210:TYR:O	44:SC:213:CYS:HB2	2.15	0.47
44:SC:212:ILE:HD11	44:SC:300:ASN:O	2.14	0.47
44:SC:334:THR:HG22	44:SC:338:LYS:HZ2	1.78	0.47
44:SE:196:GLU:OE2	44:SE:264:ARG:HD2	2.14	0.47
44:SE:239:THR:HB	44:SE:242:LEU:HD12	1.95	0.47
45:SJ:343:GLU:OE2	45:SJ:430:ALA:N	2.47	0.47
44:SK:115:VAL:HG22	44:SK:119:LEU:HD23	1.95	0.47
45:SL:254:ALA:O	44:SM:407:TRP:HH2	1.97	0.47
45:SL:406:MET:O	45:SL:409:THR:N	2.46	0.47
44:SM:13:GLY:CA	44:SM:16:VAL:HG12	2.43	0.47
44:SM:241:SER:CB	44:SM:250:VAL:H	2.27	0.47
45:SN:142:GLY:N	45:SN:184:ASN:HD22	2.11	0.47
45:SN:211:CYS:O	45:SN:216:LYS:N	2.47	0.47
44:TA:88:HIS:HD1	44:TA:90:GLU:HG2	1.78	0.47
45:TB:193:VAL:HG23	45:TB:264:HIS:NE2	2.29	0.47
45:TD:10:GLY:O	45:TD:14:ASN:HB2	2.14	0.47
45:TD:68:LEU:HD11	45:TD:147:MET:CE	2.25	0.47
45:TD:231:ALA:O	45:TD:234:SER:N	2.47	0.47
44:TE:336:LYS:NZ	44:TE:336:LYS:HB3	2.29	0.47
45:TF:100:ASN:HD22	45:TF:103:LYS:HB2	1.79	0.47
45:TF:325:GLU:OE1	44:TG:221:ARG:NH1	2.47	0.47
44:TG:276:ILE:O	44:TG:369:ALA:HB3	2.13	0.47
45:TJ:92:PHE:C	45:TJ:112:LEU:HD11	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:284:LEU:HB3	45:TJ:363:MET:HE1	1.96	0.47
44:TK:67:PHE:C	44:TK:68:LEU:HD12	2.34	0.47
44:TK:210:TYR:HE1	44:TK:227:LEU:CD1	2.27	0.47
45:TL:92:PHE:C	45:TL:112:LEU:HD11	2.35	0.47
45:TL:99:ASN:CA	45:TL:142:GLY:HA3	2.44	0.47
45:TL:322:SER:CB	44:TM:221:ARG:HG3	2.35	0.47
45:TL:323:THR:O	45:TL:326:VAL:N	2.46	0.47
44:TM:248:LEU:HD21	44:TM:353:VAL:HG13	1.96	0.47
44:TM:326:LYS:HD3	45:TN:212:PHE:CZ	2.49	0.47
45:TN:10:GLY:HA3	48:TN:501:GDP:O1B	2.14	0.47
44:UA:208:ALA:HA	44:UA:304:LYS:NZ	2.27	0.47
45:UB:50:TYR:O	45:UB:62:ARG:HG2	2.14	0.47
44:UC:236:SER:O	44:UC:243:ARG:NH2	2.46	0.47
44:UC:362:VAL:CB	44:UC:370:LYS:HB3	2.27	0.47
45:UD:211:CYS:CB	45:UD:217:LEU:HD12	2.44	0.47
45:UD:245:GLN:O	45:UD:246:LEU:HD12	2.13	0.47
45:UD:267:MET:HE1	45:UD:301:CYS:HB2	1.95	0.47
44:UE:225:THR:O	44:UE:229:ARG:NH2	2.47	0.47
45:UF:2:ARG:CG	45:UF:240:LEU:HD11	2.30	0.47
44:UG:108:TYR:CD1	44:UG:413:MET:HE3	2.49	0.47
45:UH:346:PRO:O	45:UH:347:ASN:HB2	2.13	0.47
44:UI:237:SER:HA	44:UI:320:ARG:NH1	2.29	0.47
44:UI:331:SER:O	44:UI:335:ILE:HG12	2.13	0.47
45:UJ:286:VAL:HG11	45:UJ:325:GLU:OE1	2.13	0.47
44:UK:200:VAL:HG13	44:UK:268:MET:SD	2.54	0.47
44:UK:239:THR:C	44:UK:243:ARG:HE	2.17	0.47
45:UL:6:HIS:NE2	45:UL:8:GLN:OE1	2.47	0.47
45:UL:47:ILE:HG12	45:UL:51:TYR:HB2	1.95	0.47
45:UL:131:GLN:O	45:UL:163:ILE:HG12	2.14	0.47
45:UL:242:PHE:HB3	45:UL:356:ILE:CG1	2.44	0.47
45:UN:212:PHE:HA	45:UN:216:LYS:HA	1.96	0.47
45:UN:238:CYS:SG	45:UN:239:CYS:N	2.86	0.47
44:VA:183:GLU:N	44:VA:184:PRO:CD	2.77	0.47
44:VA:201:ALA:N	44:VA:266:HIS:O	2.47	0.47
44:VA:325:PRO:HB2	45:VD:208:TYR:CE1	2.49	0.47
45:VB:74:ASP:HB3	45:VB:77:ARG:NH1	2.29	0.47
45:VD:272:PRO:C	45:VD:273:LEU:HD22	2.34	0.47
45:VD:272:PRO:O	45:VD:273:LEU:HD22	2.15	0.47
45:VD:310:TYR:HB2	45:VD:340:TYR:O	2.13	0.47
44:VE:296:PHE:CE2	44:VE:335:ILE:HG21	2.48	0.47
44:VE:386:GLU:O	44:VE:389:SER:OG	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:19:LYS:O	45:VF:22:GLU:HB2	2.14	0.47
45:VF:171:PRO:HD2	45:VF:185:ALA:CB	2.44	0.47
45:VF:390:ARG:HG3	45:VF:391:ARG:N	2.29	0.47
44:VG:188:ILE:HD12	44:VG:425:LEU:HD11	1.96	0.47
44:VG:205:ASP:CG	44:VG:303:ALA:HA	2.34	0.47
44:VG:246:GLY:HA2	44:VG:357:TYR:CE1	2.49	0.47
44:VG:332:ILE:HD12	44:VG:351:PHE:CD2	2.49	0.47
44:VG:402:ARG:O	44:VG:405:VAL:HG13	2.14	0.47
45:VH:86:ARG:HG3	45:VH:89:ASN:N	2.27	0.47
45:VH:100:ASN:HB3	45:VH:103:LYS:HB3	1.96	0.47
45:VH:302:ALA:HB3	45:VH:377:MET:HE2	1.95	0.47
44:VI:100:ALA:O	45:VJ:255:VAL:HG21	2.14	0.47
44:VI:170:THR:O	44:VI:171:ILE:HD13	2.14	0.47
44:VI:297:GLU:OE2	44:VI:298:PRO:HD2	2.13	0.47
44:VK:123:ARG:NH2	44:VK:161:TYR:OH	2.47	0.47
44:VK:227:LEU:O	44:VK:231:ILE:HD12	2.13	0.47
44:VK:296:PHE:CE2	44:VK:335:ILE:HG21	2.47	0.47
45:VL:67:ASP:HB3	45:VL:73:MET:HE3	1.95	0.47
44:VM:285:GLN:HE21	44:VM:287:SER:HB2	1.79	0.47
45:VN:304:ASP:O	45:VN:373:ALA:HB1	2.13	0.47
44:WA:11:GLN:NE2	45:WB:245:GLN:O	2.46	0.47
44:WA:387:VAL:O	44:WA:391:LEU:HD13	2.14	0.47
44:WC:141:VAL:HG11	44:WC:172:TYR:HA	1.95	0.47
45:WD:103:LYS:O	45:WD:108:GLU:HB3	2.13	0.47
45:WD:167:PHE:CE2	45:WD:233:MET:HG3	2.49	0.47
44:WE:284:GLU:OE1	44:WE:286:LEU:N	2.42	0.47
44:WE:284:GLU:OE2	44:WE:285:GLN:HG2	2.13	0.47
45:WF:285:THR:O	45:WF:287:PRO:N	2.47	0.47
45:WF:410:GLU:O	45:WF:413:SER:OG	2.29	0.47
44:WG:89:PRO:HD2	44:WG:90:GLU:N	2.28	0.47
44:WG:215:ARG:CZ	44:WG:299:ALA:HB1	2.43	0.47
45:WH:113:ILE:O	45:WH:116:VAL:HG12	2.14	0.47
44:WI:119:LEU:HD21	44:WI:156:ARG:HD3	1.96	0.47
44:WI:332:ILE:HD12	44:WI:351:PHE:CE2	2.49	0.47
45:WJ:42:LEU:HD23	45:WJ:45:GLU:CD	2.35	0.47
45:WJ:166:THR:OG1	45:WJ:199:CYS:HA	2.14	0.47
45:WJ:318:ARG:HH11	45:WJ:358:PRO:CG	2.25	0.47
44:WK:12:GLY:O	44:WK:16:VAL:N	2.40	0.47
44:WK:195:LEU:HD13	44:WK:267:PHE:HZ	1.79	0.47
45:WL:200:MET:HE3	45:WL:266:PHE:HD2	1.78	0.47
45:WL:343:GLU:OE2	45:WL:430:ALA:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WN:130:LEU:HD21	45:WN:133:PHE:CZ	2.49	0.47
45:WN:375:GLN:NE2	45:WN:376:GLU:HG2	2.29	0.47
1:6H:295:GLN:HE21	45:FH:362:LYS:HA	1.65	0.47
4:0C:82:THR:HA	45:EH:320:ARG:NH1	2.27	0.47
25:1P:200:LEU:HD21	45:TH:276:ARG:NE	2.28	0.47
12:1S:275:TYR:HE2	45:WF:86:ARG:NH2	2.11	0.47
15:1V:114:PRO:HB2	44:LI:263:PRO:HG3	1.96	0.47
29:2F:48:ILE:CG2	44:GC:370:LYS:HE3	2.43	0.47
22:2L:672:THR:HG22	45:CL:320:ARG:HH22	1.79	0.47
28:3C:232:PHE:HE2	45:JB:59:TYR:CZ	2.30	0.47
15:3V:82:THR:HG21	45:LB:402:GLY:C	2.34	0.47
37:5B:85:ARG:HH21	44:NE:82:THR:HB	1.78	0.47
37:5D:20:LEU:HD21	45:KN:419:VAL:HB	1.96	0.47
37:5D:75:TYR:HE2	45:NN:319:GLY:HA2	1.77	0.47
38:5H:42:TYR:HD2	44:OK:281:ALA:CB	2.27	0.47
38:5H:116:TYR:O	38:5H:118:PRO:HD3	2.14	0.47
11:5Q:1:MET:O	11:5Q:2:PHE:HB2	2.14	0.47
35:5R:330:SER:HB2	35:5R:331:PRO:HD2	1.96	0.47
35:5R:550:VAL:O	35:5R:553:ILE:HG22	2.13	0.47
35:7R:284:THR:HB	35:7R:307:LYS:N	2.30	0.47
35:7R:550:VAL:HG22	35:7R:554:LYS:HE3	1.96	0.47
43:8R:219:UNK:O	43:8R:223:UNK:N	2.47	0.47
44:AA:139:ASN:OD1	44:AA:170:THR:HG22	2.14	0.47
44:AA:183:GLU:N	44:AA:184:PRO:HD2	2.28	0.47
44:AA:209:ILE:CG1	44:AA:227:LEU:HD22	2.42	0.47
45:AB:60:VAL:HG22	45:AB:86:ARG:HD2	1.94	0.47
44:AC:208:ALA:HB3	44:AC:302:MET:O	2.14	0.47
44:AC:313:MET:HG2	44:AC:380:ASN:O	2.13	0.47
44:AE:31:GLN:HB3	44:AE:32:PRO:CD	2.44	0.47
44:AE:287:SER:O	44:AE:291:ILE:HG22	2.15	0.47
45:AF:52:ASN:HB3	45:AF:60:VAL:CG1	2.44	0.47
45:AF:107:THR:HG23	45:AF:108:GLU:HG2	1.96	0.47
45:AH:86:ARG:HA	45:BH:281:TYR:CD2	2.49	0.47
45:AH:304:ASP:HB3	45:AH:307:HIS:CG	2.50	0.47
44:AI:93:ILE:HD12	44:AI:93:ILE:H	1.78	0.47
44:AI:271:SER:HB3	44:AI:377:MET:SD	2.54	0.47
45:AJ:293:MET:HG2	45:AJ:367:PHE:CD1	2.49	0.47
44:AK:9:VAL:CG2	44:AK:139:ASN:HB3	2.44	0.47
44:AK:71:GLU:HG3	45:AL:247:ASN:HD22	1.80	0.47
45:AL:133:PHE:O	45:AL:164:MET:HA	2.14	0.47
44:AM:68:LEU:HD21	44:AM:118:CYS:SG	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:177:VAL:HG23	44:AM:177:VAL:O	2.14	0.47
45:AN:396:HIS:O	45:AN:399:THR:OG1	2.23	0.47
44:BA:252:ILE:HA	44:BA:255:PHE:CE2	2.49	0.47
45:BB:91:VAL:HG21	45:BB:116:VAL:HB	1.96	0.47
44:BC:427:ALA:HA	44:BC:430:LYS:HZ1	1.77	0.47
44:BE:406:HIS:CE1	45:BF:260:PHE:HA	2.49	0.47
44:BE:408:TYR:O	44:BE:413:MET:HB3	2.13	0.47
45:BF:68:LEU:HD11	45:BF:108:GLU:CG	2.44	0.47
45:BF:238:CYS:HB2	45:BF:318:ARG:CZ	2.44	0.47
44:BG:287:SER:O	44:BG:290:GLU:HG2	2.15	0.47
45:BH:348:ASN:OD1	45:BH:349:ILE:HD12	2.14	0.47
44:BI:67:PHE:C	44:BI:68:LEU:HD22	2.34	0.47
44:BI:103:PHE:HD2	44:BI:189:LEU:HD13	1.78	0.47
44:BI:209:ILE:CG2	44:BI:227:LEU:HD22	2.39	0.47
44:BK:221:ARG:O	44:BK:221:ARG:HG3	2.13	0.47
45:BL:241:ARG:HG3	45:BL:242:PHE:CD2	2.48	0.47
45:BL:260:PHE:CE1	45:BL:425:TYR:HE2	2.32	0.47
45:BL:309:ARG:HA	45:BL:340:TYR:O	2.14	0.47
44:BM:155:GLU:HA	44:BM:197:HIS:HE1	1.74	0.47
44:BM:289:ALA:O	44:BM:292:THR:OG1	2.27	0.47
45:BN:35:THR:OG1	45:BN:37:HIS:NE2	2.46	0.47
44:CA:220:GLU:C	44:CA:222:PRO:HD3	2.34	0.47
44:CA:226:ASN:ND2	44:CA:367:ASP:OD2	2.47	0.47
45:CD:169:VAL:HG13	45:CD:202:ILE:O	2.14	0.47
44:CE:187:SER:HB3	44:CE:391:LEU:HD21	1.96	0.47
44:CI:104:ALA:HB2	44:CI:413:MET:CG	2.44	0.47
44:CI:390:ARG:HG3	44:CI:391:LEU:N	2.29	0.47
44:CK:66:VAL:CG1	44:CK:122:ILE:HD11	2.34	0.47
44:CK:156:ARG:O	44:CK:160:ASP:HB2	2.14	0.47
44:CK:188:ILE:HG21	44:CK:395:PHE:CE2	2.49	0.47
44:CK:432:TYR:CA	44:CK:435:VAL:HG12	2.41	0.47
44:CM:108:TYR:HE2	44:CM:413:MET:HG2	1.76	0.47
44:DA:102:ASN:OD1	44:DA:105:ARG:N	2.37	0.47
44:DA:189:LEU:HA	44:DA:192:HIS:HB3	1.96	0.47
44:DC:155:GLU:HG2	44:DC:197:HIS:CD2	2.50	0.47
44:DC:209:ILE:HB	44:DC:227:LEU:HD22	1.95	0.47
44:DE:3:GLU:HG3	44:DE:129:CYS:HB3	1.96	0.47
44:DE:185:TYR:OH	44:DE:398:MET:HB3	2.13	0.47
44:DE:239:THR:O	44:DE:239:THR:HG22	2.13	0.47
45:DF:319:GLY:HA2	45:DF:357:PRO:CD	2.44	0.47
45:DF:324:LYS:HD2	44:DG:210:TYR:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DG:114:ILE:O	44:DG:114:ILE:HG13	2.14	0.47
44:DG:258:ASN:CG	45:DH:179:VAL:HG22	2.34	0.47
45:DH:187:LEU:HD11	45:DH:408:PHE:CD1	2.49	0.47
45:DJ:12:CYS:SG	45:DJ:138:SER:HB2	2.54	0.47
45:DJ:44:LEU:HA	45:DJ:47:ILE:HG12	1.96	0.47
45:DJ:310:TYR:HB2	45:DJ:341:PHE:CD2	2.49	0.47
44:DK:66:VAL:HG22	44:DK:68:LEU:CD1	2.44	0.47
44:DK:103:PHE:CZ	44:DK:189:LEU:HB3	2.49	0.47
44:DK:285:GLN:HG3	44:DK:287:SER:H	1.80	0.47
44:EA:209:ILE:CG2	44:EA:227:LEU:HD23	2.45	0.47
45:EB:207:LEU:HB2	45:EB:225:LEU:HD22	1.96	0.47
45:EB:257:LEU:HD23	45:EB:266:PHE:CD2	2.49	0.47
44:EC:26:LEU:HD12	44:EC:26:LEU:O	2.13	0.47
44:EC:101:ASN:HA	44:EC:144:GLY:CA	2.44	0.47
45:ED:124:ALA:HB1	45:ED:130:LEU:HD22	1.96	0.47
45:EF:99:ASN:C	45:EF:142:GLY:HA3	2.35	0.47
44:EG:175:PRO:HG2	44:EG:304:LYS:HB3	1.96	0.47
44:EG:259:LEU:HD22	44:EG:268:MET:HE2	1.95	0.47
44:EI:414:GLU:HG3	44:EI:416:GLY:H	1.79	0.47
45:EJ:2:ARG:NH2	45:EJ:240:LEU:HG	2.29	0.47
45:EJ:375:GLN:HG2	45:EJ:376:GLU:N	2.29	0.47
44:EK:277:SER:O	44:EK:281:ALA:HB2	2.14	0.47
45:EL:218:THR:HG23	45:EL:219:THR:N	2.29	0.47
44:FC:11:GLN:CG	44:FC:74:VAL:HG11	2.43	0.47
44:FC:178:SER:OG	45:FD:347:ASN:HB3	2.13	0.47
45:FD:202:ILE:HG22	45:FD:207:LEU:HD11	1.96	0.47
44:FE:9:VAL:O	44:FE:9:VAL:HG23	2.14	0.47
44:FE:246:GLY:HA2	44:FE:357:TYR:CE1	2.48	0.47
45:FF:170:VAL:HG13	45:FF:203:ASP:OD1	2.14	0.47
44:FG:71:GLU:OE2	44:FG:72:PRO:HD2	2.14	0.47
44:FG:105:ARG:HG2	44:FG:411:GLU:OE1	2.14	0.47
44:FG:121:ARG:NE	44:FG:121:ARG:HA	2.29	0.47
45:FH:64:ILE:HA	45:FH:90:PHE:CD2	2.50	0.47
45:FH:134:GLN:HA	45:FH:165:GLU:HB2	1.96	0.47
45:FH:270:PHE:CD1	45:FH:271:ALA:N	2.81	0.47
44:FI:229:ARG:HH11	44:FI:229:ARG:HG2	1.78	0.47
45:FJ:140:GLY:O	45:FJ:184:ASN:ND2	2.47	0.47
44:FK:70:LEU:HD13	44:FK:110:ILE:HD11	1.96	0.47
44:FK:389:SER:HA	44:FK:429:GLU:OE2	2.14	0.47
44:FM:13:GLY:CA	44:FM:16:VAL:HG12	2.41	0.47
45:FN:267:MET:SD	45:FN:305:PRO:HG3	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:304:ASP:OD2	45:FN:306:ARG:NH1	2.46	0.47
44:GA:372:MET:SD	44:GA:372:MET:O	2.72	0.47
44:GA:434:GLU:OE2	44:GA:435:VAL:HG23	2.15	0.47
45:GB:48:ASN:HA	45:GB:51:TYR:O	2.14	0.47
44:GC:54:SER:HB3	44:GC:64:ARG:CZ	2.43	0.47
44:GC:349:THR:HG21	45:GF:176:SER:CB	2.44	0.47
45:GD:167:PHE:CE1	45:GD:200:MET:HB2	2.49	0.47
45:GD:242:PHE:CD2	45:GD:356:ILE:HB	2.48	0.47
44:GG:188:ILE:HD12	44:GG:425:LEU:CD1	2.44	0.47
44:GG:372:MET:C	44:GG:373:ARG:HD2	2.34	0.47
45:GH:2:ARG:HA	45:GH:129:CYS:O	2.13	0.47
45:GH:72:THR:HG23	45:GH:73:MET:N	2.28	0.47
45:GH:86:ARG:HD2	45:HH:281:TYR:CB	2.45	0.47
45:GH:305:PRO:HA	45:GH:373:ALA:HB2	1.96	0.47
44:GI:215:ARG:HG3	44:GI:216:ASN:CG	2.34	0.47
44:GI:264:ARG:NE	44:GI:264:ARG:HA	2.29	0.47
44:GI:406:HIS:CD2	44:GI:407:TRP:CD1	3.02	0.47
45:GJ:60:VAL:HB	45:GJ:86:ARG:HH21	1.79	0.47
45:GJ:360:GLY:C	45:GJ:361:LEU:HD23	2.35	0.47
44:GK:404:PHE:HE1	45:GL:259:PRO:CA	2.23	0.47
45:GL:102:ALA:HB1	45:GL:401:GLU:HB2	1.96	0.47
45:GL:112:LEU:O	45:GL:112:LEU:HD23	2.13	0.47
45:GL:308:GLY:HA3	45:GL:372:THR:OG1	2.14	0.47
44:GM:318:MET:SD	44:GM:354:GLY:HA3	2.54	0.47
45:GN:4:ILE:HG22	45:GN:132:GLY:N	2.29	0.47
45:GN:175:VAL:O	45:GN:175:VAL:HG23	2.13	0.47
45:GN:329:GLN:O	45:GN:333:VAL:HG23	2.14	0.47
45:GN:386:THR:HG1	45:GN:389:PHE:N	2.12	0.47
44:HA:121:ARG:NH1	44:HA:124:LYS:HD2	2.29	0.47
44:HA:140:SER:HB2	46:HA:501:GTP:O2'	2.14	0.47
44:HA:167:LEU:CD1	44:HA:200:VAL:HB	2.43	0.47
44:HA:200:VAL:HG23	44:HA:256:GLN:HG2	1.95	0.47
45:HB:22:GLU:CD	45:HB:80:PRO:HB2	2.34	0.47
45:HB:263:LEU:HB3	45:HB:370:ASN:HD21	1.79	0.47
44:HC:88:HIS:HB3	44:HC:91:GLN:HB3	1.97	0.47
44:HC:179:THR:HB	46:HC:501:GTP:O3'	2.13	0.47
45:HD:214:THR:O	45:HD:216:LYS:HG3	2.13	0.47
44:HE:210:TYR:O	44:HE:213:CYS:N	2.47	0.47
45:HF:313:ALA:HB1	45:HF:367:PHE:CZ	2.49	0.47
45:HH:2:ARG:HB2	45:HH:131:GLN:OE1	2.14	0.47
45:HH:100:ASN:ND2	45:HH:397:TRP:HE3	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:390:ARG:HG3	45:HH:391:ARG:N	2.29	0.47
44:HK:407:TRP:HZ3	45:HL:255:VAL:CA	2.19	0.47
44:HK:437:ILE:O	45:HN:391:ARG:NH1	2.46	0.47
45:HL:51:TYR:CD1	45:HL:61:PRO:HA	2.49	0.47
44:HM:292:THR:CG2	44:HM:319:TYR:HE2	2.27	0.47
44:IA:259:LEU:O	44:IA:261:PRO:HD3	2.14	0.47
45:IB:313:ALA:CB	45:IB:349:ILE:HG12	2.42	0.47
44:IC:138:PHE:CD1	44:IC:169:PHE:HB2	2.49	0.47
44:IC:221:ARG:NH2	45:ID:321:MET:HE2	2.28	0.47
44:IC:324:VAL:CG2	44:IC:325:PRO:HD2	2.45	0.47
44:IC:326:LYS:N	44:IC:326:LYS:HD3	2.24	0.47
44:IE:107:HIS:HD2	44:IE:152:LEU:HD22	1.79	0.47
44:IE:166:LYS:C	44:IE:167:LEU:HD12	2.35	0.47
45:IF:178:THR:CG2	45:IF:180:VAL:HG12	2.43	0.47
45:IF:345:ILE:O	45:IF:345:ILE:HG23	2.13	0.47
44:IG:101:ASN:ND2	46:IG:501:GTP:O2G	2.47	0.47
45:IH:7:ILE:CD1	45:IH:151:LEU:HD21	2.38	0.47
45:IH:60:VAL:HG22	45:IH:61:PRO:HD2	1.96	0.47
45:IH:156:ARG:HD3	45:IH:164:MET:HG2	1.96	0.47
44:II:24:PHE:CZ	44:II:52:PHE:HE2	2.32	0.47
45:IJ:106:TYR:HD2	45:IJ:403:MET:CE	2.26	0.47
44:IK:56:THR:HG22	44:IK:60:LYS:O	2.14	0.47
45:IL:7:ILE:HG12	45:IL:64:ILE:HD13	1.95	0.47
45:IL:66:MET:CE	45:IL:147:MET:HG2	2.44	0.47
44:IM:360:PRO:HG3	44:IM:374:ALA:CB	2.43	0.47
44:IM:404:PHE:HE2	45:IN:345:ILE:HD11	1.77	0.47
45:IN:355:ASP:O	45:IN:357:PRO:HD3	2.14	0.47
44:JA:10:GLY:O	44:JA:14:ILE:HG12	2.13	0.47
45:JB:32:PRO:HG3	45:JB:81:PHE:CZ	2.49	0.47
45:JB:210:ILE:HG12	45:JB:297:LYS:O	2.15	0.47
45:JB:264:HIS:O	45:JB:264:HIS:ND1	2.47	0.47
45:JD:3:GLU:HA	45:JD:49:VAL:HG23	1.96	0.47
45:JD:44:LEU:HD23	45:JD:47:ILE:HD12	1.96	0.47
45:JD:143:THR:HG23	45:JD:144:GLY:N	2.29	0.47
44:JE:107:HIS:HD2	44:JE:148:GLY:O	1.98	0.47
44:JE:107:HIS:CE1	44:JE:152:LEU:HD13	2.49	0.47
44:JE:175:PRO:HD2	44:JE:207:GLU:CB	2.43	0.47
44:JE:287:SER:CA	44:JE:373:ARG:HH11	2.27	0.47
44:JE:326:LYS:CE	45:JH:220:PRO:HG2	2.45	0.47
44:JG:88:HIS:HB3	44:JG:91:GLN:HG2	1.97	0.47
44:JG:210:TYR:HE1	44:JG:222:PRO:HG2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:237:SER:HB2	44:JG:320:ARG:HH11	1.80	0.47
45:JH:65:LEU:HB2	45:JH:90:PHE:CD1	2.49	0.47
45:JH:191:GLN:HA	45:JH:194:GLU:OE1	2.14	0.47
44:JI:66:VAL:HG11	44:JI:122:ILE:HD13	1.96	0.47
44:JI:407:TRP:CD1	45:JJ:255:VAL:HG22	2.49	0.47
45:JJ:14:ASN:OD1	45:JJ:76:VAL:HG21	2.14	0.47
45:JJ:36:TYR:CE1	45:JJ:38:GLY:HA3	2.49	0.47
44:JK:285:GLN:NE2	44:JK:287:SER:H	2.11	0.47
45:JL:46:ARG:HD2	45:JL:241:ARG:HA	1.95	0.47
44:JM:404:PHE:HA	44:JM:407:TRP:HZ3	1.77	0.47
44:KA:138:PHE:HE1	44:KA:169:PHE:CD2	2.30	0.47
44:KA:181:VAL:HG22	45:KB:347:ASN:O	2.15	0.47
45:KB:5:VAL:HA	45:KB:62:ARG:HD2	1.93	0.47
44:KC:262:TYR:HA	45:KF:396:HIS:CE1	2.49	0.47
45:KD:295:ASP:OD2	45:KD:297:LYS:HG2	2.14	0.47
45:KD:318:ARG:HE	45:KD:358:PRO:HD3	1.79	0.47
45:KD:375:GLN:HG3	45:KD:376:GLU:N	2.29	0.47
44:KE:220:GLU:C	44:KE:221:ARG:HD2	2.35	0.47
44:KE:401:LYS:HD2	45:KF:344:TRP:CD2	2.49	0.47
45:KF:295:ASP:OD1	45:KF:296:ALA:N	2.47	0.47
44:KG:60:LYS:HE2	44:LG:282:TYR:O	2.14	0.47
44:KG:123:ARG:HH21	44:KG:161:TYR:HE1	1.62	0.47
44:KI:55:GLU:OE2	44:KI:61:HIS:NE2	2.47	0.47
44:KI:326:LYS:HG3	45:KL:220:PRO:HD2	1.96	0.47
45:KJ:175:VAL:O	45:KJ:175:VAL:CG2	2.61	0.47
44:KK:42:ILE:HD12	44:KK:42:ILE:H	1.79	0.47
44:KK:326:LYS:HB2	45:KN:212:PHE:HZ	1.79	0.47
45:KL:3:GLU:CG	45:KL:62:ARG:HH12	2.27	0.47
45:KL:214:THR:OG1	45:KL:215:LEU:HD23	2.13	0.47
44:KM:400:ALA:O	44:KM:401:LYS:HD2	2.14	0.47
45:KN:36:TYR:CE2	45:KN:44:LEU:HD22	2.50	0.47
45:KN:149:THR:HG21	45:KN:188:SER:CB	2.26	0.47
45:KN:150:LEU:HA	45:KN:153:SER:OG	2.14	0.47
45:KN:341:PHE:O	45:KN:348:ASN:N	2.46	0.47
45:LB:257:LEU:HG	45:LB:257:LEU:O	2.14	0.47
45:LB:274:THR:HG21	45:LB:282:ARG:HD3	1.96	0.47
44:LC:276:ILE:HG13	44:LC:276:ILE:O	2.14	0.47
45:LD:265:PHE:HB3	45:LD:374:ILE:CD1	2.44	0.47
45:LD:286:VAL:N	45:LD:287:PRO:CD	2.77	0.47
45:LF:215:LEU:HD22	45:LF:217:LEU:CG	2.44	0.47
45:LF:268:ILE:HD11	45:LF:300:MET:CE	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:19:LYS:HA	45:LH:22:GLU:OE2	2.15	0.47
44:LI:63:PRO:HG3	44:LI:86:LEU:HD23	1.96	0.47
44:LI:88:HIS:HE1	44:MI:280:LYS:HE2	1.79	0.47
44:LI:100:ALA:O	45:LJ:255:VAL:HG21	2.14	0.47
44:LI:311:LYS:O	44:LI:381:SER:HB2	2.14	0.47
45:LJ:324:LYS:HD3	45:LJ:324:LYS:HA	1.46	0.47
44:LM:363:VAL:CG2	44:LM:364:PRO:HD2	2.45	0.47
45:LN:253:LEU:HD21	45:LN:316:LEU:HD11	1.96	0.47
44:MA:332:ILE:HG23	44:MA:351:PHE:CD1	2.49	0.47
44:MC:161:TYR:HB3	44:MC:164:LYS:HZ1	1.76	0.47
44:MC:363:VAL:CG2	44:MC:364:PRO:HD2	2.44	0.47
45:MD:232:ALA:O	45:MD:236:VAL:HG23	2.14	0.47
45:MD:285:THR:C	45:MD:287:PRO:HD2	2.35	0.47
44:ME:14:ILE:HD11	44:ME:69:ASP:HB2	1.96	0.47
44:ME:105:ARG:O	44:ME:110:ILE:HG12	2.14	0.47
44:ME:200:VAL:HG23	44:ME:256:GLN:HB3	1.93	0.47
44:ME:212:ILE:O	44:ME:216:ASN:HB2	2.13	0.47
45:MF:116:VAL:HA	45:MF:119:VAL:HG22	1.95	0.47
44:MI:135:PHE:HZ	44:MI:161:TYR:CE2	2.32	0.47
44:MI:231:ILE:O	44:MI:235:ILE:HD12	2.13	0.47
44:MI:237:SER:OG	44:MI:320:ARG:HD3	2.14	0.47
45:MJ:163:ILE:HG13	45:MJ:164:MET:N	2.28	0.47
45:MJ:325:GLU:HG2	45:MJ:328:GLU:OE2	2.13	0.47
44:MK:22:GLU:HG3	44:MK:83:TYR:CE2	2.49	0.47
44:MK:73:THR:HG21	45:ML:2:ARG:HH22	1.79	0.47
44:MK:212:ILE:CD1	44:MK:300:ASN:HA	2.44	0.47
44:NA:260:VAL:HG23	44:NA:265:ILE:O	2.14	0.47
44:NA:274:PRO:HD3	44:NA:374:ALA:HA	1.95	0.47
44:NC:129:CYS:CB	44:NC:132:LEU:HD21	2.41	0.47
44:NC:371:VAL:HG22	44:NC:372:MET:N	2.30	0.47
44:NC:422:ARG:NH1	44:NC:426:ALA:HB2	2.29	0.47
45:ND:391:ARG:C	45:ND:392:LYS:HG3	2.34	0.47
44:NE:137:VAL:HG13	44:NE:137:VAL:O	2.14	0.47
44:NE:152:LEU:O	44:NE:156:ARG:HG2	2.14	0.47
44:NE:169:PHE:CE1	44:NE:202:VAL:HG21	2.49	0.47
45:NH:4:ILE:HD11	45:NH:131:GLN:HB3	1.95	0.47
45:NH:170:VAL:CG1	45:NH:171:PRO:HD2	2.38	0.47
45:NH:215:LEU:O	45:NH:216:LYS:HG2	2.13	0.47
45:NJ:187:LEU:HD11	45:NJ:408:PHE:HE1	1.79	0.47
44:NK:312:TYR:HA	44:NK:381:SER:CB	2.44	0.47
45:NL:97:ALA:HB3	45:NL:143:THR:CG2	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:107:HIS:CD2	44:NM:152:LEU:HB2	2.49	0.47
44:NM:407:TRP:CH2	45:NN:255:VAL:HA	2.49	0.47
45:NN:233:MET:HA	45:NN:233:MET:CE	2.44	0.47
45:NN:311:LEU:HG	45:NN:372:THR:CG2	2.44	0.47
44:OA:149:LEU:O	44:OA:153:LEU:HD13	2.13	0.47
45:OB:124:ALA:CB	45:OB:130:LEU:HD22	2.44	0.47
45:OB:141:GLY:HA3	48:OB:501:GDP:O2A	2.14	0.47
45:OB:276:ARG:O	45:OB:279:GLN:HB2	2.14	0.47
44:OC:22:GLU:O	44:OC:26:LEU:HD23	2.13	0.47
44:OC:165:SER:O	44:OC:166:LYS:HD3	2.14	0.47
44:OE:153:LEU:O	44:OE:157:LEU:HG	2.14	0.47
44:OE:176:GLN:NE2	45:OF:331:LEU:HG	2.30	0.47
44:OE:265:ILE:HD12	44:OE:435:VAL:HG21	1.96	0.47
44:OE:351:PHE:N	45:OH:179:VAL:HG12	2.29	0.47
45:OF:47:ILE:O	45:OF:47:ILE:HG13	2.14	0.47
45:OF:320:ARG:NE	45:OF:320:ARG:HA	2.29	0.47
45:OF:342:VAL:HG22	45:OF:343:GLU:N	2.29	0.47
44:OG:274:PRO:HB2	44:OG:276:ILE:HD11	1.93	0.47
45:OH:7:ILE:HG12	45:OH:135:ILE:CD1	2.43	0.47
45:OH:22:GLU:HA	45:OH:81:PHE:CD1	2.49	0.47
45:OH:113:ILE:O	45:OH:117:LEU:N	2.42	0.47
45:OH:134:GLN:O	45:OH:134:GLN:HG3	2.14	0.47
44:OK:398:MET:HE1	45:OL:345:ILE:HG22	1.96	0.47
44:OM:179:THR:HG22	45:ON:350:LYS:HG3	1.95	0.47
45:ON:113:ILE:CD1	45:ON:150:LEU:HG	2.43	0.47
44:PA:280:LYS:HD3	44:PA:283:HIS:CE1	2.49	0.47
45:PB:227:HIS:O	45:PB:230:SER:HB3	2.14	0.47
44:PC:145:THR:N	46:PC:501:GTP:O2G	2.41	0.47
44:PC:171:ILE:HG12	44:PC:204:LEU:CB	2.44	0.47
44:PC:191:THR:CA	44:PC:194:LEU:HG	2.44	0.47
44:PC:372:MET:N	44:PC:372:MET:HE2	2.29	0.47
45:PD:111:GLU:OE1	45:PD:112:LEU:HD12	2.13	0.47
45:PD:244:GLY:HA2	45:PD:355:ASP:CG	2.34	0.47
45:PD:271:ALA:HB1	45:PD:272:PRO:CD	2.32	0.47
44:PE:7:ILE:CG2	44:PE:137:VAL:HG23	2.44	0.47
44:PE:284:GLU:O	44:PE:286:LEU:HD23	2.14	0.47
45:PF:107:THR:HG21	45:PF:401:GLU:OE2	2.14	0.47
45:PH:217:LEU:HD12	45:PH:217:LEU:O	2.14	0.47
45:PH:310:TYR:O	45:PH:311:LEU:HD23	2.14	0.47
44:PI:288:VAL:HA	44:PI:291:ILE:CG1	2.29	0.47
44:PI:320:ARG:HH22	44:PI:360:PRO:HA	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:200:VAL:HG13	44:PK:268:MET:SD	2.54	0.47
44:PK:424:ASP:O	44:PK:427:ALA:N	2.47	0.47
45:PL:6:HIS:ND1	45:PL:134:GLN:HG3	2.29	0.47
45:PL:137:HIS:O	45:PL:168:SER:HA	2.14	0.47
44:PM:88:HIS:H	44:PM:91:GLN:NE2	2.12	0.47
44:PM:210:TYR:HD1	45:PN:324:LYS:HD2	1.79	0.47
45:PN:62:ARG:O	45:PN:62:ARG:HG3	2.14	0.47
45:PN:73:MET:HA	45:PN:76:VAL:HG12	1.95	0.47
45:PN:200:MET:HG2	45:PN:268:ILE:CG2	2.44	0.47
44:QA:234:VAL:CG2	44:QA:272:TYR:HB2	2.44	0.47
45:QB:10:GLY:N	45:QB:14:ASN:OD1	2.47	0.47
45:QB:175:VAL:O	45:QB:175:VAL:HG23	2.15	0.47
45:QB:206:ALA:O	45:QB:210:ILE:HG13	2.14	0.47
44:QC:108:TYR:CE2	44:QC:413:MET:HA	2.48	0.47
44:QC:230:LEU:HD11	44:QC:275:ILE:HD13	1.96	0.47
45:QD:40:SER:OG	45:QD:43:GLN:HG3	2.14	0.47
45:QD:187:LEU:HD11	45:QD:408:PHE:CE1	2.50	0.47
45:QD:337:ASN:HB3	45:QD:340:TYR:HB2	1.96	0.47
45:QD:350:LYS:NZ	45:QD:351:SER:O	2.45	0.47
44:QE:173:PRO:HG2	44:QE:391:LEU:HD11	1.95	0.47
44:QG:173:PRO:HG3	44:QG:391:LEU:HD21	1.97	0.47
44:QI:223:THR:N	44:QI:226:ASN:OD1	2.38	0.47
45:QJ:107:THR:HG21	45:QJ:401:GLU:HB3	1.96	0.47
45:QJ:318:ARG:HH11	45:QJ:358:PRO:CG	2.23	0.47
45:QL:190:HIS:CG	45:QL:411:ALA:HA	2.49	0.47
45:QL:309:ARG:O	45:QL:372:THR:N	2.40	0.47
44:QM:21:TRP:HA	44:QM:24:PHE:HB2	1.95	0.47
44:QM:115:VAL:HA	44:QM:118:CYS:HB3	1.97	0.47
44:QM:141:VAL:HG22	44:QM:187:SER:CB	2.44	0.47
44:QM:145:THR:OG1	46:QM:501:GTP:O3G	2.31	0.47
44:QM:183:GLU:N	44:QM:184:PRO:HD2	2.29	0.47
44:QM:419:SER:O	44:QM:422:ARG:CD	2.59	0.47
45:QN:150:LEU:HD23	45:QN:154:LYS:HG3	1.95	0.47
44:RA:91:GLN:OE1	44:RA:125:LEU:HD11	2.15	0.47
44:RA:143:GLY:O	44:RA:147:SER:N	2.37	0.47
44:RC:259:LEU:HD11	44:RC:316:SER:CB	2.44	0.47
44:RC:319:TYR:HB2	44:RC:355:ILE:CD1	2.44	0.47
45:RD:175:VAL:O	45:RD:175:VAL:HG23	2.14	0.47
44:RE:2:ARG:NH1	44:RE:242:LEU:O	2.47	0.47
45:RF:164:MET:N	45:RF:197:ASP:OD2	2.48	0.47
44:RG:67:PHE:HB2	44:RG:92:LEU:CG	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:145:THR:OG1	44:RG:149:LEU:HD23	2.14	0.47
45:RH:66:MET:SD	45:RH:116:VAL:HG21	2.54	0.47
45:RH:341:PHE:HD2	45:RH:348:ASN:ND2	2.06	0.47
45:RJ:178:THR:HG21	45:RJ:180:VAL:HG12	1.95	0.47
44:RK:21:TRP:HE3	44:RK:24:PHE:HB2	1.79	0.47
45:RL:42:LEU:HA	45:RL:45:GLU:CG	2.41	0.47
45:RL:66:MET:HA	45:RL:91:VAL:O	2.14	0.47
45:RL:396:HIS:CE1	45:RL:397:TRP:CD1	3.02	0.47
44:RM:325:PRO:HG2	45:RN:222:TYR:CE2	2.49	0.47
45:RN:102:ALA:HB1	45:RN:403:MET:HE3	1.96	0.47
45:RN:123:GLU:C	45:RN:126:GLY:H	2.17	0.47
45:RN:180:VAL:HG23	45:RN:183:TYR:CD2	2.49	0.47
44:SA:5:ILE:CG1	44:SA:64:ARG:HB3	2.31	0.47
44:SA:66:VAL:O	44:SA:67:PHE:HD1	1.97	0.47
44:SA:76:ASP:O	44:SA:80:THR:N	2.45	0.47
44:SA:238:LEU:HD21	44:SA:255:PHE:CZ	2.49	0.47
45:SD:329:GLN:O	45:SD:333:VAL:HG23	2.14	0.47
45:SF:252:LYS:HG2	45:SF:350:LYS:HZ3	1.79	0.47
45:SH:217:LEU:HD12	45:SH:217:LEU:O	2.14	0.47
45:SH:404:ASP:O	45:SH:407:GLU:HG2	2.14	0.47
44:SI:154:LEU:O	44:SI:157:LEU:N	2.47	0.47
45:SJ:214:THR:O	45:SJ:216:LYS:HG3	2.14	0.47
45:SJ:319:GLY:HA2	45:SJ:355:ASP:C	2.34	0.47
45:TB:317:PHE:HA	45:TB:365:VAL:HG12	1.97	0.47
45:TB:329:GLN:NE2	45:TB:330:MET:HG2	2.29	0.47
44:TC:1:MET:CE	45:TD:70:PRO:HG2	2.44	0.47
45:TD:212:PHE:O	45:TD:216:LYS:HA	2.13	0.47
44:TE:258:ASN:OD1	45:TF:179:VAL:HG12	2.13	0.47
45:TF:42:LEU:HD23	45:TF:243:PRO:HD3	1.96	0.47
44:TG:310:GLY:HA3	44:TG:382:THR:HG21	1.96	0.47
44:TG:315:CYS:HA	44:TG:379:SER:CB	2.43	0.47
44:TG:406:HIS:CD2	44:TG:407:TRP:CD1	3.02	0.47
45:TJ:65:LEU:HD21	45:TJ:85:PHE:HE2	1.79	0.47
45:TJ:238:CYS:SG	45:TJ:239:CYS:N	2.87	0.47
45:TJ:256:ASN:O	44:TK:181:VAL:HG21	2.14	0.47
45:TJ:286:VAL:HG23	45:TJ:321:MET:CE	2.43	0.47
45:TL:293:MET:CG	45:TL:367:PHE:HB2	2.44	0.47
44:TM:79:ARG:O	44:TM:84:ARG:HB2	2.13	0.47
44:TM:313:MET:HE1	44:TM:344:VAL:HB	1.96	0.47
44:TM:320:ARG:NH2	44:TM:358:GLN:O	2.46	0.47
45:UB:371:SER:O	45:UB:374:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:136:LEU:CD2	44:UC:167:LEU:HD13	2.44	0.47
44:UC:267:PHE:CD2	44:UC:388:PHE:HZ	2.32	0.47
44:UC:312:TYR:HB2	44:UC:343:PHE:HA	1.96	0.47
44:UC:347:CYS:HA	45:UD:388:MET:SD	2.55	0.47
45:UD:20:PHE:HA	45:UD:230:SER:CB	2.44	0.47
45:UD:178:THR:HG22	45:UD:180:VAL:HG12	1.96	0.47
44:UE:271:SER:O	44:UE:376:CYS:HA	2.14	0.47
44:UG:173:PRO:HD2	44:UG:391:LEU:HD21	1.96	0.47
45:UH:256:ASN:OD1	44:UI:182:VAL:HB	2.14	0.47
44:UI:219:ILE:HG22	44:UI:222:PRO:HD3	1.96	0.47
44:UI:346:TRP:CG	45:UJ:391:ARG:HG3	2.48	0.47
45:UJ:299:MET:CE	45:UJ:305:PRO:HG3	2.41	0.47
45:UL:38:GLY:HA3	45:UL:43:GLN:HE22	1.79	0.47
45:UL:258:ILE:HD13	44:UM:407:TRP:HH2	1.79	0.47
45:UL:406:MET:O	45:UL:409:THR:HB	2.14	0.47
44:UM:104:ALA:HB3	44:UM:411:GLU:HB2	1.96	0.47
45:UN:132:GLY:HA3	45:UN:163:ILE:HG13	1.96	0.47
45:UN:395:LEU:O	45:UN:399:THR:OG1	2.15	0.47
44:VA:107:HIS:NE2	44:VA:152:LEU:HD13	2.29	0.47
44:VA:123:ARG:HA	44:VA:126:ALA:HB3	1.96	0.47
44:VA:210:TYR:O	44:VA:214:ARG:HB2	2.13	0.47
44:VC:88:HIS:O	44:VC:91:GLN:HG2	2.13	0.47
45:VD:104:GLY:O	45:VD:146:GLY:HA3	2.14	0.47
45:VD:248:SER:CB	45:VD:252:LYS:HD2	2.44	0.47
45:VH:406:MET:O	45:VH:410:GLU:HG3	2.14	0.47
44:VK:183:GLU:HG2	44:VK:184:PRO:HD3	1.96	0.47
44:VK:208:ALA:HB3	44:VK:302:MET:O	2.14	0.47
44:VK:260:VAL:O	45:VN:397:TRP:CZ2	2.67	0.47
45:VL:113:ILE:HD13	45:VL:150:LEU:HD22	1.95	0.47
45:VL:167:PHE:CZ	45:VL:233:MET:HE1	2.49	0.47
45:VL:216:LYS:HD3	45:VL:275:SER:OG	2.13	0.47
45:VL:233:MET:HA	45:VL:233:MET:CE	2.41	0.47
45:VL:271:ALA:HB1	45:VL:272:PRO:HA	1.96	0.47
44:VM:98:ASP:OD1	44:VM:99:ALA:N	2.47	0.47
44:VM:108:TYR:CA	44:VM:112:LYS:HE3	2.41	0.47
44:VM:425:LEU:CD2	44:VM:428:LEU:HD23	2.44	0.47
45:VN:28:HIS:CB	45:VN:30:ILE:HG12	2.44	0.47
45:VN:318:ARG:CZ	45:VN:358:PRO:HG3	2.44	0.47
45:VN:323:THR:HB	45:VN:327:ASP:OD2	2.13	0.47
44:WA:61:HIS:O	44:WA:63:PRO:HD3	2.14	0.47
44:WA:259:LEU:HD11	44:WA:378:ILE:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WA:329:ASN:OD1	45:WD:175:VAL:HG11	2.15	0.47
44:WC:103:PHE:HB2	44:WC:186:ASN:CB	2.41	0.47
44:WC:209:ILE:O	44:WC:213:CYS:N	2.32	0.47
44:WC:210:TYR:CE1	44:WC:227:LEU:HD11	2.49	0.47
44:WC:230:LEU:O	44:WC:234:VAL:HG23	2.14	0.47
45:WD:131:GLN:CG	45:WD:250:LEU:HD12	2.44	0.47
45:WD:261:PRO:O	45:WD:264:HIS:HD2	1.97	0.47
45:WD:285:THR:O	45:WD:288:GLU:HB2	2.14	0.47
44:WE:97:GLU:HG3	44:WE:105:ARG:HH12	1.79	0.47
44:WE:202:VAL:HG13	44:WE:268:MET:O	2.15	0.47
45:WH:293:MET:SD	45:WH:367:PHE:HB2	2.55	0.47
45:WJ:268:ILE:HG13	45:WJ:300:MET:HG3	1.95	0.47
44:WK:91:GLN:NE2	44:WK:92:LEU:HD12	2.30	0.47
44:WK:222:PRO:CG	45:WL:324:LYS:HD3	2.32	0.47
45:WL:24:ILE:HD11	45:WL:234:SER:HB2	1.95	0.47
45:WL:174:LYS:CD	45:WL:175:VAL:HG13	2.44	0.47
44:WM:298:PRO:HA	44:WM:301:MET:CE	2.40	0.47
44:WM:387:VAL:O	44:WM:390:ARG:HG3	2.14	0.47
45:WN:36:TYR:OH	45:WN:43:GLN:HB2	2.14	0.47
45:WN:149:THR:HA	45:WN:152:ILE:HD13	1.96	0.47
45:WN:208:TYR:O	45:WN:211:CYS:HB2	2.14	0.47
3:0B:287:ASP:OD1	45:KL:276:ARG:NH1	2.47	0.47
10:0N:215:CYS:SG	45:KN:32:PRO:HB2	2.54	0.47
32:2I:119:ASP:OD2	44:GC:308:ARG:NH1	2.46	0.47
22:2L:553:MET:HG2	44:BM:226:ASN:OD1	2.14	0.47
15:3V:24:ARG:CG	44:MA:430:LYS:HD2	2.43	0.47
15:3V:51:LEU:HD21	44:LA:120:ASP:OD2	2.13	0.47
31:4H:193:LEU:HG	45:AL:362:LYS:HD2	1.94	0.47
37:5B:39:ARG:CD	44:KC:264:ARG:HE	2.27	0.47
37:5B:46:ILE:HD11	44:KC:434:GLU:OE1	2.13	0.47
37:5D:32:ALA:HB1	44:KK:434:GLU:CD	2.33	0.47
38:5F:180:THR:O	38:5F:183:LYS:HG2	2.15	0.47
39:5K:40:THR:O	39:5K:44:ARG:HB2	2.13	0.47
11:5Q:97:LYS:O	11:5Q:99:VAL:N	2.46	0.47
35:5R:360:TYR:HB3	35:5R:366:LEU:O	2.15	0.47
11:6Q:173:SER:OG	11:6Q:175:GLU:HG2	2.15	0.47
35:6R:319:PRO:HG3	45:CN:228:LEU:CD2	2.44	0.47
35:7R:175:GLU:OE2	45:AD:33:THR:HG23	2.14	0.47
35:7R:204:VAL:HG22	35:7R:205:PRO:HD2	1.96	0.47
42:8L:187:UNK:CB	44:RG:58:ALA:HB2	2.44	0.47
43:8R:193:UNK:O	43:8R:197:UNK:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:261:PRO:HG2	44:AA:313:MET:HE1	1.96	0.47
44:AC:126:ALA:HB1	44:AC:132:LEU:CD1	2.44	0.47
44:AC:210:TYR:HB3	45:AD:324:LYS:CE	2.45	0.47
44:AC:254:GLU:HA	44:AC:257:THR:HG22	1.96	0.47
44:AC:268:MET:HG3	44:AC:378:ILE:HG22	1.96	0.47
44:AE:319:TYR:CD2	44:AE:323:VAL:HG21	2.35	0.47
44:AG:301:MET:HA	44:AG:301:MET:CE	2.45	0.47
44:AG:317:MET:HE2	44:AG:319:TYR:HE1	1.79	0.47
45:AH:7:ILE:HD12	45:AH:151:LEU:HD23	1.96	0.47
44:AI:102:ASN:O	44:AI:105:ARG:HB2	2.14	0.47
44:AI:224:TYR:HE2	45:AJ:246:LEU:HD11	1.79	0.47
45:AJ:238:CYS:HB2	45:AJ:318:ARG:CZ	2.44	0.47
44:AK:68:LEU:HD21	44:AK:118:CYS:SG	2.54	0.47
44:AK:70:LEU:CD2	44:AK:114:ILE:HD12	2.44	0.47
44:AK:89:PRO:HD2	44:BK:280:LYS:HG3	1.96	0.47
44:AK:280:LYS:HZ1	44:MK:90:GLU:HB3	1.77	0.47
45:AL:23:VAL:CG1	45:AL:230:SER:HB3	2.33	0.47
45:AL:32:PRO:HD3	45:AL:81:PHE:CE1	2.50	0.47
45:AL:155:VAL:CG1	45:AL:164:MET:HE1	2.44	0.47
44:AM:101:ASN:HA	44:AM:144:GLY:H	1.79	0.47
44:AM:188:ILE:HG23	44:AM:425:LEU:HD21	1.96	0.47
44:AM:267:PHE:CE2	44:AM:388:PHE:HZ	2.31	0.47
45:AN:377:MET:HE2	45:AN:380:ARG:HD2	1.96	0.47
44:BC:88:HIS:HB3	44:BC:91:GLN:HG2	1.97	0.47
45:BD:200:MET:SD	45:BD:268:ILE:HG21	2.53	0.47
44:BE:330:ALA:O	44:BE:334:THR:HG23	2.14	0.47
45:BF:68:LEU:HD11	45:BF:108:GLU:HG2	1.95	0.47
45:BF:113:ILE:HA	45:BF:116:VAL:CG1	2.44	0.47
45:BH:20:PHE:CZ	45:BH:24:ILE:HG13	2.49	0.47
45:BH:318:ARG:HG2	45:BH:357:PRO:O	2.13	0.47
44:BI:118:CYS:SG	44:BI:153:LEU:HD21	2.54	0.47
44:BI:291:ILE:HG13	44:BI:292:THR:N	2.29	0.47
45:BJ:65:LEU:HD11	45:BJ:85:PHE:CE2	2.49	0.47
45:BJ:156:ARG:HD3	45:BJ:195:ASN:HB3	1.95	0.47
45:BJ:170:VAL:CG2	45:BJ:171:PRO:HD2	2.45	0.47
44:BK:69:ASP:OD2	44:BK:74:VAL:HG11	2.14	0.47
44:BK:115:VAL:CG2	44:BK:156:ARG:HD2	2.44	0.47
45:BL:131:GLN:C	45:BL:162:ARG:HD3	2.34	0.47
45:BL:334:GLN:HE22	45:BL:347:ASN:N	2.11	0.47
44:BM:24:PHE:HZ	44:BM:235:ILE:HG21	1.78	0.47
44:BM:36:MET:HG3	44:BM:37:PRO:CD	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:53:PHE:CE2	44:BM:63:PRO:HG3	2.47	0.47
44:BM:66:VAL:HG21	44:BM:121:ARG:HG2	1.95	0.47
44:BM:297:GLU:HG2	44:BM:298:PRO:HD2	1.95	0.47
44:CA:23:LEU:HD23	44:CA:236:SER:CB	2.44	0.47
44:CA:194:LEU:HB2	44:CA:198:THR:OG1	2.14	0.47
44:CA:246:GLY:HA2	44:CA:357:TYR:CD2	2.50	0.47
45:CB:323:THR:HG23	44:CC:223:THR:HG23	1.96	0.47
44:CC:183:GLU:HG2	44:CC:184:PRO:CD	2.44	0.47
45:CD:20:PHE:CE1	45:CD:233:MET:HG2	2.49	0.47
44:CE:363:VAL:HG22	44:CE:364:PRO:CD	2.44	0.47
45:CF:319:GLY:N	45:CF:354:CYS:O	2.47	0.47
45:CH:97:ALA:O	45:CH:100:ASN:ND2	2.47	0.47
45:CH:243:PRO:HA	44:CI:73:THR:CG2	2.44	0.47
44:CI:258:ASN:HD22	45:CJ:179:VAL:CG2	2.25	0.47
44:CI:384:ILE:O	44:CI:384:ILE:HG22	2.13	0.47
45:CJ:1:MET:HE2	44:CK:96:LYS:HG2	1.96	0.47
45:CJ:207:LEU:HD22	45:CJ:228:LEU:HD23	1.96	0.47
45:CJ:315:ALA:C	45:CJ:316:LEU:HD22	2.35	0.47
44:CK:172:TYR:HB3	44:CK:173:PRO:CD	2.43	0.47
45:CL:311:LEU:HD11	45:CL:370:ASN:HD22	1.77	0.47
45:CL:323:THR:O	45:CL:326:VAL:N	2.47	0.47
45:CL:325:GLU:CA	45:CL:328:GLU:HG2	2.38	0.47
44:CM:135:PHE:N	44:CM:165:SER:O	2.41	0.47
44:CM:152:LEU:HG	44:CM:156:ARG:HH22	1.79	0.47
44:CM:191:THR:HA	44:CM:194:LEU:HG	1.96	0.47
44:CM:422:ARG:HH12	44:CM:426:ALA:HB2	1.78	0.47
45:CN:200:MET:HE2	45:CN:268:ILE:HG21	1.97	0.47
45:CN:263:LEU:HD12	45:CN:263:LEU:N	2.29	0.47
44:DC:75:ILE:HG21	44:DC:94:SER:HB2	1.96	0.47
44:DC:274:PRO:HD2	44:DC:374:ALA:CB	2.44	0.47
45:DD:81:PHE:CB	45:DD:84:LEU:HD13	2.45	0.47
44:DE:153:LEU:O	44:DE:157:LEU:HG	2.14	0.47
44:DE:175:PRO:HG3	44:DE:390:ARG:NH1	2.29	0.47
44:DE:275:ILE:C	44:DE:276:ILE:HD12	2.34	0.47
44:DE:320:ARG:HG3	44:DE:360:PRO:HD3	1.96	0.47
45:DF:42:LEU:HA	45:DF:45:GLU:CD	2.35	0.47
45:DF:217:LEU:HD11	45:DF:220:PRO:HB3	1.95	0.47
44:DG:254:GLU:CG	45:DH:98:GLY:HA2	2.44	0.47
45:DH:322:SER:CB	45:DH:325:GLU:H	2.27	0.47
45:DH:327:ASP:HA	45:DH:330:MET:HE2	1.96	0.47
45:DJ:11:GLN:HG3	45:DJ:72:THR:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:62:VAL:O	44:DK:62:VAL:HG13	2.14	0.47
44:DK:346:TRP:HZ3	45:DL:394:PHE:HE1	1.62	0.47
45:DL:172:SER:HB3	45:DL:377:MET:CE	2.43	0.47
45:DL:303:ALA:HB1	45:DL:373:ALA:O	2.14	0.47
44:DM:313:MET:CE	44:DM:381:SER:HA	2.44	0.47
45:DN:130:LEU:HG	45:DN:162:ARG:CD	2.43	0.47
45:DN:146:GLY:O	45:DN:149:THR:HG22	2.13	0.47
45:DN:179:VAL:HG21	45:DN:394:PHE:CE2	2.49	0.47
44:EA:209:ILE:CD1	44:EA:227:LEU:HD22	2.45	0.47
44:EA:346:TRP:C	45:EB:388:MET:HE3	2.35	0.47
45:EB:30:ILE:CG2	45:EB:34:GLY:HA2	2.39	0.47
45:EB:130:LEU:HG	45:EB:162:ARG:HD2	1.96	0.47
44:EC:1:MET:CG	45:ED:70:PRO:HG2	2.42	0.47
44:EC:188:ILE:HG13	44:EC:395:PHE:CB	2.37	0.47
45:ED:60:VAL:HG12	45:ED:61:PRO:O	2.14	0.47
45:ED:146:GLY:O	45:ED:149:THR:HG22	2.14	0.47
45:ED:323:THR:O	45:ED:327:ASP:N	2.41	0.47
44:EE:287:SER:O	44:EE:290:GLU:N	2.48	0.47
45:EF:2:ARG:CZ	45:EF:240:LEU:HG	2.44	0.47
44:EI:159:VAL:HG12	44:EI:159:VAL:O	2.14	0.47
45:EJ:12:CYS:HB2	48:EJ:501:GDP:C8	2.49	0.47
44:EK:89:PRO:HB2	44:FI:280:LYS:HZ3	1.79	0.47
44:EK:120:ASP:O	44:EK:123:ARG:HG2	2.14	0.47
44:EK:217:LEU:HD23	44:EK:277:SER:OG	2.14	0.47
44:EM:126:ALA:O	44:EM:129:CYS:HB2	2.15	0.47
44:EM:296:PHE:CD1	44:EM:377:MET:HE1	2.43	0.47
45:EN:16:ILE:HD12	45:EN:229:VAL:CB	2.43	0.47
44:FA:298:PRO:HG3	44:FA:308:ARG:NH1	2.28	0.47
44:FA:317:MET:HG3	44:FA:353:VAL:CB	2.44	0.47
45:FB:263:LEU:HD23	45:FB:311:LEU:HD11	1.96	0.47
44:FC:137:VAL:HG12	44:FC:167:LEU:O	2.14	0.47
45:FD:170:VAL:HG23	45:FD:171:PRO:HD2	1.96	0.47
44:FE:269:LEU:HD12	44:FE:303:ALA:HB3	1.94	0.47
44:FE:433:GLU:OE2	44:FE:437:ILE:HD11	2.14	0.47
45:FF:67:ASP:OD1	45:FF:68:LEU:N	2.48	0.47
44:FG:210:TYR:HE1	44:FG:227:LEU:HD11	1.77	0.47
44:FG:388:PHE:CE2	44:FG:428:LEU:HD21	2.49	0.47
44:FI:313:MET:HG3	44:FI:346:TRP:HZ2	1.79	0.47
45:FJ:313:ALA:O	45:FJ:349:ILE:HA	2.14	0.47
44:FK:181:VAL:HG12	45:FL:256:ASN:HB3	1.95	0.47
45:FL:2:ARG:NH1	45:FL:240:LEU:HG	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:286:VAL:CG1	45:FL:325:GLU:HG2	2.26	0.47
45:FN:86:ARG:NH2	45:GN:278:SER:HA	2.30	0.47
45:FN:169:VAL:CA	45:FN:202:ILE:HB	2.43	0.47
45:GB:112:LEU:HD22	45:GB:147:MET:HE3	1.95	0.47
45:GB:159:TYR:HD2	45:GB:162:ARG:HG3	1.79	0.47
44:GC:167:LEU:HD13	44:GC:200:VAL:HB	1.96	0.47
44:GC:313:MET:SD	44:GC:346:TRP:HZ2	2.36	0.47
45:GD:81:PHE:O	45:GD:84:LEU:HD13	2.14	0.47
44:GE:101:ASN:HA	44:GE:144:GLY:H	1.79	0.47
44:GE:172:TYR:HD2	44:GE:203:MET:CE	2.27	0.47
45:GF:285:THR:OG1	45:GF:287:PRO:HD2	2.14	0.47
44:GG:315:CYS:HB2	44:GG:379:SER:CB	2.44	0.47
44:GG:371:VAL:HG12	44:GG:372:MET:N	2.30	0.47
45:GH:91:VAL:HG21	45:GH:116:VAL:CB	2.44	0.47
44:GK:72:PRO:HB2	45:GL:46:ARG:HH22	1.79	0.47
44:GK:253:THR:HG22	44:GK:257:THR:HG1	1.78	0.47
45:GN:15:GLN:HB3	45:GN:19:LYS:HZ3	1.77	0.47
45:GN:156:ARG:CD	45:GN:164:MET:HG3	2.43	0.47
44:HA:316:SER:HB2	44:HA:352:LYS:HE2	1.92	0.47
45:HB:3:GLU:HG2	45:HB:129:CYS:O	2.14	0.47
45:HB:3:GLU:HB2	45:HB:49:VAL:HG13	1.96	0.47
45:HB:26:ASP:C	45:HB:29:GLY:H	2.17	0.47
45:HB:258:ILE:HG13	45:HB:266:PHE:CZ	2.35	0.47
45:HD:230:SER:O	45:HD:233:MET:HB2	2.14	0.47
45:HD:258:ILE:HG13	45:HD:266:PHE:CZ	2.49	0.47
44:HG:103:PHE:HB3	44:HG:408:TYR:HE2	1.79	0.47
44:HG:224:TYR:CD1	45:HH:323:THR:HG21	2.49	0.47
44:HG:308:ARG:HH12	44:HG:340:THR:CG2	2.26	0.47
45:HH:178:THR:HB	45:HH:181:GLU:CG	2.44	0.47
45:HH:352:SER:C	45:HH:353:ILE:HD12	2.35	0.47
44:HI:51:THR:HG23	44:HI:52:PHE:HD2	1.78	0.47
44:HI:51:THR:CG2	44:HI:243:ARG:HB3	2.36	0.47
44:HI:226:ASN:ND2	44:HI:229:ARG:HH22	2.12	0.47
45:HJ:73:MET:HA	45:HJ:76:VAL:HG12	1.97	0.47
45:HJ:86:ARG:HH12	45:IJ:282:ARG:N	2.12	0.47
45:HJ:311:LEU:O	45:HJ:345:ILE:HD13	2.14	0.47
45:HJ:360:GLY:O	45:HJ:361:LEU:HD23	2.14	0.47
44:HK:21:TRP:HA	44:HK:21:TRP:CE3	2.49	0.47
44:HK:104:ALA:CB	44:HK:411:GLU:HB2	2.45	0.47
44:HK:223:THR:HG23	44:HK:225:THR:H	1.79	0.47
44:HM:6:SER:O	44:HM:7:ILE:HD13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:98:ASP:OD1	44:HM:99:ALA:N	2.47	0.47
44:HM:269:LEU:HG	44:HM:379:SER:OG	2.14	0.47
45:HN:139:LEU:HD12	45:HN:170:VAL:HG12	1.96	0.47
45:HN:268:ILE:HA	45:HN:368:VAL:HA	1.95	0.47
44:IA:175:PRO:CG	44:IA:390:ARG:HH11	2.24	0.47
45:ID:362:LYS:O	45:ID:363:MET:HG3	2.13	0.47
44:IE:1:MET:HG2	44:IE:1:MET:O	2.14	0.47
44:IE:79:ARG:HG3	44:IE:92:LEU:CD2	2.39	0.47
44:IE:129:CYS:SG	44:IE:132:LEU:HD21	2.54	0.47
44:IE:306:ASP:HB3	44:IE:309:HIS:CG	2.49	0.47
45:IF:178:THR:CB	45:IF:181:GLU:HG3	2.43	0.47
44:IG:133:GLN:HA	44:IG:133:GLN:OE1	2.14	0.47
44:IG:231:ILE:O	44:IG:235:ILE:HG12	2.14	0.47
45:IH:36:TYR:O	45:IH:37:HIS:ND1	2.46	0.47
44:II:209:ILE:HG21	44:II:227:LEU:HB3	1.97	0.47
45:IJ:69:GLU:OE2	45:IJ:72:THR:HG22	2.14	0.47
45:IJ:105:HIS:CD2	45:IJ:150:LEU:HB2	2.48	0.47
45:IN:22:GLU:HB3	45:IN:81:PHE:HD2	1.77	0.47
45:IN:72:THR:HG23	45:IN:73:MET:N	2.29	0.47
45:IN:337:ASN:O	45:IN:341:PHE:HD1	1.97	0.47
44:JA:402:ARG:O	44:JA:405:VAL:HG22	2.14	0.47
44:JC:13:GLY:O	44:JC:16:VAL:HG12	2.13	0.47
44:JC:195:LEU:HD21	44:JC:428:LEU:HD13	1.96	0.47
44:JC:250:VAL:HG13	44:JC:352:LYS:HZ2	1.80	0.47
45:JD:30:ILE:HD12	45:JD:51:TYR:CE1	2.49	0.47
45:JD:175:VAL:O	45:JD:175:VAL:HG23	2.14	0.47
44:JE:261:PRO:HB2	44:JE:262:TYR:CD2	2.49	0.47
44:JE:420:GLU:O	44:JE:423:GLU:HB2	2.14	0.47
45:JF:136:THR:CG2	45:JF:233:MET:HE3	2.44	0.47
44:JG:90:GLU:OE1	44:KG:280:LYS:HD3	2.15	0.47
44:JI:211:ASP:O	44:JI:215:ARG:HG3	2.13	0.47
45:JJ:189:VAL:HG22	45:JJ:415:MET:CE	2.44	0.47
44:JK:103:PHE:CE2	44:JK:148:GLY:HA2	2.41	0.47
44:JK:122:ILE:HD13	44:JK:125:LEU:HD12	1.96	0.47
44:JK:326:LYS:HE2	45:JN:208:TYR:CE1	2.49	0.47
44:JK:404:PHE:CE1	45:JL:259:PRO:HA	2.48	0.47
45:JL:20:PHE:CD2	45:JL:233:MET:HE1	2.49	0.47
45:JL:119:VAL:O	45:JL:122:LYS:HG2	2.14	0.47
45:JL:297:LYS:HE2	45:JL:297:LYS:HA	1.95	0.47
45:JN:10:GLY:HA2	45:JN:143:THR:CG2	2.44	0.47
45:JN:32:PRO:HA	45:JN:81:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:88:HIS:HB3	44:KA:91:GLN:CG	2.44	0.47
44:KA:312:TYR:HA	44:KA:381:SER:CB	2.44	0.47
45:KB:383:GLU:HA	45:KB:386:THR:HG22	1.96	0.47
44:KE:200:VAL:HG13	44:KE:268:MET:SD	2.54	0.47
45:KF:31:ASP:HB3	45:KF:37:HIS:CD2	2.48	0.47
45:KF:320:ARG:HG3	45:KF:320:ARG:O	2.14	0.47
44:KG:301:MET:HG3	44:KG:307:PRO:CD	2.44	0.47
44:KG:326:LYS:NZ	45:KJ:220:PRO:N	2.62	0.47
44:KG:439:THR:OG1	45:KJ:390:ARG:NH2	2.47	0.47
44:KI:217:LEU:CD1	44:KI:367:ASP:HB3	2.45	0.47
44:KI:303:ALA:O	44:KI:305:CYS:N	2.45	0.47
45:KJ:20:PHE:HE2	45:KJ:233:MET:HB3	1.74	0.47
45:KJ:83:GLN:O	45:KJ:83:GLN:HG3	2.14	0.47
45:KJ:104:GLY:O	45:KJ:147:MET:HA	2.15	0.47
45:KJ:217:LEU:HD23	45:KJ:219:THR:N	2.29	0.47
44:KK:1:MET:HE1	45:KN:70:PRO:HG3	1.96	0.47
44:KK:216:ASN:HB3	44:KK:275:ILE:O	2.14	0.47
45:KL:401:GLU:N	45:KL:401:GLU:OE1	2.46	0.47
44:KM:34:GLY:HA3	44:KM:60:LYS:CE	2.44	0.47
44:KM:214:ARG:O	44:KM:218:ASP:HA	2.14	0.47
44:KM:235:ILE:O	44:KM:238:LEU:N	2.47	0.47
45:KN:272:PRO:HD3	45:KN:364:ALA:CA	2.43	0.47
45:LB:116:VAL:O	45:LB:120:VAL:HG12	2.15	0.47
44:LE:119:LEU:HD11	44:LE:156:ARG:HH11	1.80	0.47
45:LF:2:ARG:HG3	45:LF:240:LEU:HD11	1.96	0.47
45:LF:304:ASP:OD1	45:LF:305:PRO:HD2	2.14	0.47
44:LG:2:ARG:HG3	44:LG:242:LEU:HD22	1.96	0.47
44:LG:319:TYR:CE1	44:LG:375:VAL:HG12	2.49	0.47
45:LH:245:GLN:OE1	45:LH:245:GLN:N	2.47	0.47
44:LI:200:VAL:HG13	44:LI:268:MET:CE	2.44	0.47
45:LJ:342:VAL:HG22	45:LJ:343:GLU:H	1.79	0.47
45:LJ:378:PHE:O	45:LJ:382:ALA:N	2.34	0.47
44:LM:260:VAL:O	44:LM:260:VAL:HG23	2.14	0.47
44:MC:104:ALA:HB3	44:MC:411:GLU:HB2	1.96	0.47
45:MD:108:GLU:O	45:MD:111:GLU:N	2.47	0.47
45:MD:314:SER:CB	45:MD:350:LYS:HB3	2.44	0.47
44:ME:393:HIS:CD2	44:ME:425:LEU:HD11	2.50	0.47
44:MG:4:VAL:HG13	44:MG:4:VAL:O	2.14	0.47
44:MG:173:PRO:HA	44:MG:211:ASP:CG	2.35	0.47
44:MG:202:VAL:HG22	44:MG:378:ILE:HD11	1.96	0.47
44:MG:210:TYR:HB3	45:MH:324:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:344:VAL:HG21	44:MG:346:TRP:NE1	2.30	0.47
44:MI:316:SER:CB	44:MI:352:LYS:HB3	2.45	0.47
45:MJ:300:MET:HA	45:MJ:300:MET:HE2	1.97	0.47
45:ML:216:LYS:HG2	45:ML:275:SER:HB2	1.97	0.47
44:MM:86:LEU:HD23	44:MM:87:PHE:HE2	1.78	0.47
44:MM:414:GLU:HB2	44:MM:417:GLU:HG2	1.95	0.47
45:MN:286:VAL:CG2	45:MN:287:PRO:HD3	2.44	0.47
44:NA:220:GLU:HG3	44:NA:221:ARG:NH1	2.29	0.47
44:NA:250:VAL:HG12	44:NA:255:PHE:CZ	2.49	0.47
44:NA:259:LEU:HB3	44:NA:268:MET:CE	2.44	0.47
45:NB:45:GLU:O	45:NB:46:ARG:HD3	2.13	0.47
45:ND:217:LEU:HD11	45:ND:220:PRO:CG	2.45	0.47
45:ND:320:ARG:NE	45:ND:355:ASP:HB3	2.28	0.47
45:ND:342:VAL:HG21	45:ND:344:TRP:NE1	2.30	0.47
45:NF:324:LYS:O	45:NF:328:GLU:HG2	2.15	0.47
44:NG:31:GLN:CD	44:NG:32:PRO:HD2	2.34	0.47
44:NG:88:HIS:CD2	44:OG:283:HIS:HB3	2.49	0.47
44:NG:179:THR:HG21	46:NG:501:GTP:C3'	2.37	0.47
44:NG:428:LEU:O	44:NG:431:ASP:HB2	2.13	0.47
45:NH:84:LEU:O	45:NH:86:ARG:NH1	2.47	0.47
44:NI:172:TYR:HE2	44:NI:203:MET:SD	2.37	0.47
44:NK:103:PHE:CD2	44:NK:189:LEU:HD23	2.49	0.47
44:NK:182:VAL:C	44:NK:184:PRO:HD2	2.34	0.47
44:NK:297:GLU:HG2	44:NK:298:PRO:HD2	1.96	0.47
45:NL:116:VAL:HA	45:NL:119:VAL:HG22	1.95	0.47
45:NL:279:GLN:HB2	45:NL:281:TYR:HE2	1.79	0.47
44:NM:91:GLN:NE2	44:NM:125:LEU:HD21	2.28	0.47
45:NN:2:ARG:NH2	45:NN:46:ARG:HD2	2.26	0.47
44:OA:100:ALA:O	44:OA:101:ASN:HB2	2.14	0.47
44:OA:316:SER:O	44:OA:378:ILE:HB	2.14	0.47
45:OB:267:MET:SD	45:OB:301:CYS:HB2	2.54	0.47
44:OC:68:LEU:HD21	44:OC:118:CYS:SG	2.54	0.47
44:OC:74:VAL:CG2	44:OC:75:ILE:HD12	2.36	0.47
44:OC:119:LEU:HG	44:OC:156:ARG:HG3	1.96	0.47
45:OD:72:THR:O	45:OD:75:SER:OG	2.20	0.47
45:OD:303:ALA:HB1	45:OD:373:ALA:O	2.15	0.47
45:OD:372:THR:HA	45:OD:422:TYR:CE2	2.50	0.47
44:OE:318:MET:HE3	44:OE:354:GLY:O	2.14	0.47
44:OE:325:PRO:HG2	45:OH:222:TYR:CE2	2.49	0.47
44:OI:316:SER:HA	44:OI:352:LYS:HB3	1.95	0.47
44:OK:237:SER:HA	44:OK:320:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:16:ILE:HD12	45:OL:229:VAL:HG11	1.95	0.47
44:OM:102:ASN:OD1	44:OM:102:ASN:O	2.32	0.47
44:OM:292:THR:O	44:OM:295:ALA:HB3	2.14	0.47
45:ON:188:SER:HA	45:ON:191:GLN:OE1	2.14	0.47
45:ON:330:MET:SD	45:ON:349:ILE:HG21	2.55	0.47
44:PA:408:TYR:HB3	44:PA:413:MET:CE	2.44	0.47
45:PB:285:THR:OG1	45:PB:288:GLU:HG2	2.14	0.47
44:PC:169:PHE:CE1	44:PC:202:VAL:HG21	2.48	0.47
45:PD:206:ALA:HB3	45:PD:300:MET:O	2.14	0.47
45:PD:222:TYR:HD1	45:PD:225:LEU:HD12	1.80	0.47
44:PE:88:HIS:ND1	44:PE:90:GLU:HG2	2.29	0.47
44:PE:175:PRO:HG2	44:PE:304:LYS:HG2	1.97	0.47
44:PE:305:CYS:SG	44:PE:384:ILE:HA	2.54	0.47
44:PE:320:ARG:HG3	44:PE:374:ALA:HB3	1.97	0.47
45:PF:7:ILE:HA	45:PF:64:ILE:HB	1.96	0.47
45:PF:20:PHE:HD1	45:PF:23:VAL:H	1.62	0.47
45:PF:324:LYS:O	45:PF:328:GLU:HG2	2.14	0.47
44:PG:22:GLU:HG3	44:PG:83:TYR:CE2	2.48	0.47
45:PH:72:THR:O	45:PH:75:SER:OG	2.24	0.47
44:PI:93:ILE:HD12	44:PI:93:ILE:H	1.78	0.47
44:PI:115:VAL:HG21	44:PI:152:LEU:CG	2.45	0.47
44:PI:186:ASN:O	44:PI:190:SER:OG	2.17	0.47
44:PI:340:THR:C	44:PI:341:ILE:HD13	2.34	0.47
45:PJ:323:THR:HA	45:PJ:326:VAL:HG23	1.96	0.47
45:PL:239:CYS:HB2	45:PL:248:SER:O	2.15	0.47
45:PL:267:MET:CE	45:PL:299:MET:HB3	2.44	0.47
45:PL:392:LYS:HG3	45:PL:395:LEU:HD22	1.95	0.47
44:PM:182:VAL:C	44:PM:184:PRO:HD2	2.34	0.47
44:PM:216:ASN:CB	44:PM:275:ILE:HG22	2.45	0.47
44:PM:271:SER:OG	44:PM:301:MET:HA	2.14	0.47
45:PN:42:LEU:HA	45:PN:45:GLU:CG	2.43	0.47
45:PN:254:ALA:CB	45:PN:258:ILE:HD13	2.40	0.47
44:QA:60:LYS:HE2	44:RA:283:HIS:CE1	2.49	0.47
44:QA:298:PRO:CB	44:QA:307:PRO:HD2	2.44	0.47
44:QA:345:ASP:OD1	44:QA:346:TRP:N	2.48	0.47
44:QA:363:VAL:O	44:QA:363:VAL:HG13	2.14	0.47
44:QC:276:ILE:CD1	44:QC:280:LYS:HG3	2.44	0.47
45:QD:206:ALA:O	45:QD:210:ILE:N	2.27	0.47
44:QE:261:PRO:HB3	44:QE:346:TRP:CH2	2.50	0.47
44:QE:326:LYS:HG2	45:QF:220:PRO:CD	2.44	0.47
44:QE:387:VAL:HG12	44:QE:390:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:114:ILE:O	44:QG:114:ILE:HG22	2.15	0.47
44:QG:258:ASN:HD21	44:QG:352:LYS:CB	2.27	0.47
45:QH:251:ARG:O	45:QH:254:ALA:HB3	2.14	0.47
45:QJ:65:LEU:HB3	45:QJ:73:MET:HE2	1.95	0.47
45:QJ:73:MET:HG3	45:QJ:76:VAL:HB	1.97	0.47
45:QJ:259:PRO:HA	44:QK:404:PHE:CZ	2.48	0.47
44:QK:296:PHE:HD2	44:QK:335:ILE:HD12	1.79	0.47
44:QK:325:PRO:HG2	45:QL:222:TYR:HD1	1.79	0.47
45:QL:23:VAL:HG22	45:QL:227:HIS:HE1	1.79	0.47
45:QL:97:ALA:HB3	45:QL:143:THR:CB	2.42	0.47
45:QL:183:TYR:OH	45:QL:389:PHE:HA	2.15	0.47
44:QM:171:ILE:HD13	46:QM:501:GTP:N2	2.27	0.47
44:QM:362:VAL:HG13	44:QM:362:VAL:O	2.14	0.47
45:QN:11:GLN:HA	45:QN:14:ASN:HB2	1.97	0.47
45:QN:253:LEU:O	45:QN:257:LEU:HB2	2.15	0.47
45:RB:102:ALA:HB2	45:RB:403:MET:HE2	1.95	0.47
45:RB:238:CYS:HB2	45:RB:318:ARG:CZ	2.45	0.47
44:RC:271:SER:O	44:RC:377:MET:HG3	2.14	0.47
44:RC:291:ILE:HD13	44:RC:373:ARG:HB3	1.96	0.47
45:RD:27:GLU:OE2	45:RD:241:ARG:NH1	2.33	0.47
45:RD:290:THR:HG22	45:RD:317:PHE:CZ	2.49	0.47
44:RE:71:GLU:OE1	44:RE:73:THR:N	2.46	0.47
44:RE:270:SER:C	44:RE:302:MET:HE3	2.35	0.47
44:RE:276:ILE:HD13	44:RE:281:ALA:HA	1.95	0.47
44:RE:315:CYS:SG	44:RE:317:MET:CE	3.03	0.47
44:RE:375:VAL:HG13	44:RE:377:MET:HE1	1.96	0.47
45:RF:86:ARG:HH22	45:SF:278:SER:CA	2.24	0.47
45:RF:158:GLU:HB2	45:RF:159:TYR:CD1	2.49	0.47
45:RH:355:ASP:O	45:RH:356:ILE:HD13	2.14	0.47
44:RI:87:PHE:HD2	44:RI:91:GLN:HE21	1.62	0.47
44:RI:276:ILE:HD11	44:RI:280:LYS:NZ	2.28	0.47
44:RI:384:ILE:O	44:RI:387:VAL:HG22	2.14	0.47
45:RJ:69:GLU:OE2	45:RJ:70:PRO:HD2	2.14	0.47
44:RK:231:ILE:O	44:RK:234:VAL:HB	2.15	0.47
45:RL:345:ILE:HG23	45:RL:345:ILE:O	2.15	0.47
44:RM:118:CYS:O	44:RM:121:ARG:HB2	2.14	0.47
44:RM:203:MET:HE3	44:RM:384:ILE:HD11	1.96	0.47
44:SA:13:GLY:CA	44:SA:139:ASN:HA	2.43	0.47
44:SA:276:ILE:HG23	44:SA:281:ALA:HB2	1.95	0.47
45:SB:4:ILE:HG13	45:SB:50:TYR:HE1	1.79	0.47
45:SD:337:ASN:HB3	45:SD:340:TYR:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:33:ASP:HB3	44:SE:35:GLN:NE2	2.29	0.47
44:SE:183:GLU:HG2	44:SE:184:PRO:CD	2.44	0.47
44:SE:266:HIS:O	44:SE:266:HIS:ND1	2.47	0.47
45:SF:86:ARG:CG	45:SF:89:ASN:H	2.23	0.47
45:SF:169:VAL:HA	45:SF:202:ILE:O	2.15	0.47
44:SG:11:GLN:HA	44:SG:14:ILE:HD12	1.96	0.47
44:SG:26:LEU:HD23	44:SG:364:PRO:HD3	1.95	0.47
45:SH:167:PHE:CE2	45:SH:233:MET:HG2	2.49	0.47
44:SI:54:SER:HB3	44:SI:64:ARG:CZ	2.44	0.47
44:SI:298:PRO:HG3	44:SI:308:ARG:NH1	2.29	0.47
45:SJ:117:LEU:HD21	45:SJ:154:LYS:HD2	1.96	0.47
45:SJ:318:ARG:CG	45:SJ:354:CYS:HB3	2.39	0.47
44:SK:69:ASP:OD2	44:SK:74:VAL:HG21	2.14	0.47
45:SL:87:PRO:HD2	45:TL:281:TYR:CD2	2.49	0.47
45:SL:186:THR:CA	45:SL:189:VAL:HG22	2.45	0.47
45:SL:295:ASP:OD1	45:SL:296:ALA:N	2.46	0.47
44:SM:20:CYS:O	44:SM:23:LEU:HB3	2.15	0.47
45:SN:152:ILE:HG23	45:SN:164:MET:HE2	1.95	0.47
45:SN:187:LEU:HD11	45:SN:408:PHE:CE1	2.49	0.47
45:SN:420:SER:O	45:SN:423:GLN:HG3	2.14	0.47
44:TA:24:PHE:HA	44:TA:27:GLU:OE1	2.14	0.47
44:TA:155:GLU:HG2	44:TA:197:HIS:NE2	2.29	0.47
45:TB:362:LYS:O	45:TB:363:MET:HG3	2.14	0.47
44:TC:98:ASP:OD1	44:TC:99:ALA:N	2.47	0.47
44:TC:203:MET:HG3	44:TC:384:ILE:CD1	2.33	0.47
44:TC:311:LYS:O	44:TC:382:THR:HG23	2.13	0.47
44:TE:170:THR:HG21	44:TE:194:LEU:HD22	1.97	0.47
44:TE:198:THR:HG22	44:TE:199:ASP:H	1.79	0.47
44:TE:322:ASP:OD2	44:TE:372:MET:HE2	2.15	0.47
44:TE:325:PRO:CB	44:TE:355:ILE:HD11	2.26	0.47
45:TH:180:VAL:HG22	45:TH:183:TYR:HB2	1.95	0.47
45:TH:203:ASP:OD2	45:TH:377:MET:HE1	2.14	0.47
44:TI:74:VAL:O	44:TI:77:GLU:HB3	2.14	0.47
44:TI:268:MET:HB2	44:TI:380:ASN:N	2.29	0.47
44:TI:330:ALA:O	44:TI:334:THR:N	2.48	0.47
45:TJ:176:SER:HB2	45:TJ:181:GLU:OE1	2.14	0.47
45:TJ:178:THR:CG2	45:TJ:180:VAL:H	2.26	0.47
44:TK:53:PHE:CE2	44:TK:63:PRO:HG3	2.49	0.47
44:TK:291:ILE:HA	44:TK:294:SER:CB	2.44	0.47
44:TK:296:PHE:HE2	44:TK:335:ILE:HG12	1.79	0.47
44:TK:387:VAL:O	44:TK:391:LEU:HD13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:174:LYS:CD	45:TL:175:VAL:HG13	2.37	0.47
45:TL:318:ARG:N	45:TL:321:MET:HE1	2.28	0.47
44:TM:260:VAL:CG1	44:TM:260:VAL:O	2.63	0.47
44:TM:319:TYR:HB2	44:TM:355:ILE:HA	1.96	0.47
44:TM:329:ASN:O	44:TM:332:ILE:HB	2.14	0.47
45:TN:40:SER:HG	45:TN:43:GLN:CD	2.08	0.47
45:TN:68:LEU:C	45:TN:68:LEU:HD12	2.34	0.47
45:TN:237:THR:O	45:TN:240:LEU:HB3	2.15	0.47
44:UA:257:THR:HG22	45:UB:397:TRP:CE2	2.49	0.47
44:UA:257:THR:HG22	45:UB:397:TRP:CZ2	2.49	0.47
45:UB:66:MET:HE1	45:UB:116:VAL:HG21	1.96	0.47
45:UD:287:PRO:CA	45:UD:290:THR:HG22	2.45	0.47
45:UD:324:LYS:HD3	44:UE:222:PRO:HG3	1.92	0.47
45:UF:3:GLU:CB	45:UF:49:VAL:HA	2.42	0.47
45:UF:81:PHE:CB	45:UF:84:LEU:HD13	2.39	0.47
45:UF:238:CYS:HA	45:UF:241:ARG:NH2	2.29	0.47
44:UG:3:GLU:HG3	44:UG:129:CYS:HB3	1.96	0.47
44:UG:264:ARG:O	44:UG:266:HIS:ND1	2.28	0.47
45:UH:178:THR:HG21	45:UH:180:VAL:HG12	1.96	0.47
45:UH:208:TYR:HH	45:UH:222:TYR:HE1	1.62	0.47
45:UJ:10:GLY:HA3	45:UJ:144:GLY:HA3	1.97	0.47
45:UJ:122:LYS:HE3	45:UJ:123:GLU:HG2	1.96	0.47
44:UK:141:VAL:HG23	44:UK:190:SER:OG	2.14	0.47
44:UK:408:TYR:O	44:UK:413:MET:HB3	2.15	0.47
45:UL:9:GLY:HA2	45:UL:66:MET:O	2.13	0.47
45:UL:211:CYS:SG	45:UL:215:LEU:HD12	2.54	0.47
45:UL:245:GLN:HB3	44:UM:224:TYR:HD2	1.79	0.47
44:UM:7:ILE:HD12	44:UM:66:VAL:HG12	1.96	0.47
44:UM:278:ALA:HB2	44:UM:369:ALA:CB	2.44	0.47
44:VA:133:GLN:HB3	44:VA:252:ILE:CG2	2.43	0.47
44:VA:431:ASP:O	44:VA:435:VAL:HG23	2.14	0.47
44:VC:72:PRO:HD2	45:VD:1:MET:HE1	1.95	0.47
44:VC:91:GLN:HG3	44:VC:92:LEU:HD12	1.96	0.47
44:VC:268:MET:CB	44:VC:380:ASN:HB2	2.44	0.47
45:VD:17:GLY:O	45:VD:20:PHE:HB3	2.14	0.47
45:VD:193:VAL:O	45:VD:264:HIS:NE2	2.47	0.47
45:VD:287:PRO:CA	45:VD:290:THR:HG22	2.40	0.47
44:VE:221:ARG:NH1	45:VF:325:GLU:HB3	2.29	0.47
45:VH:182:PRO:HG2	45:VH:388:MET:CE	2.44	0.47
45:VH:267:MET:HG2	45:VH:369:GLY:O	2.14	0.47
45:VH:268:ILE:HG22	45:VH:368:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:292:GLN:HA	45:VH:295:ASP:HB2	1.97	0.47
44:VI:2:ARG:HG2	44:VI:2:ARG:O	2.14	0.47
44:VI:141:VAL:HG23	44:VI:190:SER:OG	2.14	0.47
45:VJ:416:ASN:O	45:VJ:419:VAL:HG12	2.14	0.47
45:VL:212:PHE:O	45:VL:216:LYS:HG2	2.14	0.47
45:VL:270:PHE:CD2	45:VL:273:LEU:HD11	2.45	0.47
44:VM:274:PRO:HD2	44:VM:374:ALA:HA	1.96	0.47
44:VM:296:PHE:CE2	44:VM:335:ILE:HG21	2.49	0.47
45:VN:2:ARG:HA	45:VN:129:CYS:O	2.13	0.47
44:WA:73:THR:HA	44:WA:76:ASP:HB2	1.96	0.47
44:WA:371:VAL:HG13	44:WA:371:VAL:O	2.14	0.47
45:WB:308:GLY:HA2	45:WB:426:GLN:NE2	2.29	0.47
45:WB:372:THR:HG21	45:WB:426:GLN:CB	2.38	0.47
44:WC:221:ARG:HH12	45:WD:286:VAL:CG2	2.24	0.47
44:WE:11:GLN:CB	46:WE:501:GTP:PB	3.02	0.47
44:WE:84:ARG:HG3	44:WE:85:GLN:HG2	1.97	0.47
45:WF:7:ILE:CD1	45:WF:120:VAL:HG22	2.45	0.47
44:WG:54:SER:CA	44:WG:64:ARG:HH22	2.27	0.47
44:WG:182:VAL:O	44:WG:182:VAL:HG22	2.14	0.47
44:WI:6:SER:CB	44:WI:136:LEU:HB2	2.42	0.47
44:WI:204:LEU:CD2	44:WI:231:ILE:HD13	2.43	0.47
45:WJ:257:LEU:HB3	45:WJ:266:PHE:CZ	2.49	0.47
45:WJ:307:HIS:ND1	45:WJ:307:HIS:O	2.47	0.47
44:WK:71:GLU:OE1	44:WK:73:THR:HB	2.13	0.47
44:WM:175:PRO:HG3	44:WM:304:LYS:CE	2.43	0.47
44:WM:304:LYS:O	44:WM:304:LYS:HG2	2.13	0.47
45:WN:132:GLY:CA	45:WN:164:MET:HE2	2.44	0.47
2:0A:124:LEU:HD12	45:AB:360:GLY:O	2.13	0.47
5:0D:12:PRO:HG3	44:DC:280:LYS:CG	2.43	0.47
10:0N:215:CYS:HB2	45:KN:32:PRO:HG2	1.97	0.47
12:1S:278:ARG:NH2	45:WF:91:VAL:HG23	2.29	0.47
13:1T:139:TYR:CD1	45:MF:107:THR:HB	2.50	0.47
29:2F:85:MET:HB2	44:GE:114:ILE:CD1	2.36	0.47
22:2L:436:PHE:HA	45:CN:320:ARG:CZ	2.44	0.47
24:2O:156:ARG:NH2	44:VK:367:ASP:O	2.47	0.47
25:2P:410:TRP:CZ2	45:TL:279:GLN:HB3	2.49	0.47
16:2X:103:ASN:ND2	44:MG:370:LYS:O	2.46	0.47
22:3L:42:LYS:HZ1	45:BB:42:LEU:HD22	1.70	0.47
26:3R:72:HIS:CD2	44:MK:81:GLY:HA2	2.49	0.47
26:3R:382:TYR:HB2	45:EL:276:ARG:HH12	1.79	0.47
16:4X:2:LYS:HB2	45:LL:75:SER:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:4X:3:ARG:HE	44:LI:247:ALA:HA	1.78	0.47
37:5D:22:TYR:HB2	45:KN:186:THR:OG1	2.14	0.47
37:5D:41:SER:CA	44:KK:314:ALA:HB2	2.41	0.47
38:5F:126:LEU:HD12	44:NE:57:GLY:HA3	1.95	0.47
38:5H:72:ASP:O	38:5H:103:ARG:HD3	2.15	0.47
38:5H:88:HIS:HA	38:5H:93:PHE:CE1	2.49	0.47
39:5K:37:GLU:HG3	44:JK:419:SER:CB	2.45	0.47
35:5R:242:ASN:HB2	44:BI:57:GLY:CA	2.34	0.47
35:5R:566:PHE:HA	35:5R:589:MET:HE3	1.96	0.47
41:6G:94:VAL:HA	44:UK:96:LYS:HG3	1.96	0.47
11:6Q:76:LEU:HD23	11:6Q:77:VAL:N	2.28	0.47
35:6R:550:VAL:HA	35:6R:553:ILE:HG22	1.95	0.47
35:7R:361:LEU:HD13	35:7R:367:GLN:CA	2.44	0.47
35:7R:561:ARG:HD2	35:7R:563:VAL:HG22	1.97	0.47
42:8L:280:UNK:O	42:8L:281:UNK:C	2.60	0.47
44:AA:141:VAL:HG21	44:AA:172:TYR:HA	1.96	0.47
45:AF:69:GLU:OE2	45:AF:72:THR:N	2.42	0.47
45:AF:207:LEU:HB3	45:AF:225:LEU:CD2	2.42	0.47
45:AH:7:ILE:O	45:AH:7:ILE:HG13	2.14	0.47
45:AH:132:GLY:HA3	45:AH:163:ILE:HG23	1.96	0.47
44:AI:387:VAL:O	44:AI:391:LEU:HD13	2.15	0.47
45:AL:173:PRO:HD3	45:AL:380:ARG:HH11	1.80	0.47
45:AL:232:ALA:HB1	45:AL:268:ILE:HD12	1.97	0.47
44:AM:389:SER:O	44:AM:392:ASP:HB3	2.13	0.47
45:AN:101:TRP:CZ3	45:AN:187:LEU:HD13	2.49	0.47
45:AN:330:MET:HA	45:AN:333:VAL:CG1	2.43	0.47
44:BA:312:TYR:HA	44:BA:381:SER:CB	2.44	0.47
44:BC:51:THR:HG21	44:BC:243:ARG:CD	2.30	0.47
44:BC:88:HIS:ND1	44:BC:90:GLU:HG2	2.30	0.47
44:BC:141:VAL:HG21	44:BC:172:TYR:CE2	2.49	0.47
45:BD:163:ILE:CG2	45:BD:251:ARG:HG3	2.44	0.47
45:BD:187:LEU:HD21	45:BD:408:PHE:CD1	2.47	0.47
45:BD:287:PRO:HA	45:BD:329:GLN:NE2	2.30	0.47
44:BE:311:LYS:O	44:BE:381:SER:HB2	2.14	0.47
45:BH:113:ILE:CD1	45:BH:150:LEU:HD22	2.34	0.47
45:BH:137:HIS:NE2	45:BH:166:THR:HB	2.29	0.47
45:BH:167:PHE:CE2	45:BH:233:MET:HG3	2.48	0.47
44:BI:207:GLU:HB3	44:BI:304:LYS:HG3	1.95	0.47
44:BI:352:LYS:HD2	45:BL:177:ASP:O	2.15	0.47
44:BK:406:HIS:HA	44:BK:409:VAL:CG2	2.43	0.47
45:BL:311:LEU:O	45:BL:312:THR:OG1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:116:VAL:O	45:CB:119:VAL:HG12	2.14	0.47
44:CC:80:THR:C	44:CC:84:ARG:HD2	2.35	0.47
44:CC:101:ASN:C	44:CC:144:GLY:H	2.17	0.47
44:CC:126:ALA:HB1	44:CC:132:LEU:CD1	2.42	0.47
44:CC:229:ARG:NH1	44:CC:363:VAL:HG21	2.30	0.47
44:CC:317:MET:HE3	44:CC:375:VAL:HG21	1.97	0.47
45:CD:99:ASN:HA	45:CD:142:GLY:H	1.80	0.47
44:CE:80:THR:O	44:CE:80:THR:HG22	2.13	0.47
44:CE:145:THR:HG22	46:CE:501:GTP:O3G	2.13	0.47
44:CE:231:ILE:O	44:CE:234:VAL:HB	2.14	0.47
44:CE:287:SER:HB3	44:CE:290:GLU:HG2	1.97	0.47
45:CF:1:MET:HE1	44:CG:72:PRO:CG	2.44	0.47
45:CF:64:ILE:HG13	45:CF:64:ILE:O	2.14	0.47
45:CF:124:ALA:O	45:CF:130:LEU:HD21	2.13	0.47
44:CG:286:LEU:O	44:CG:373:ARG:HD2	2.13	0.47
45:CH:17:GLY:O	45:CH:20:PHE:HB3	2.14	0.47
44:CI:311:LYS:O	44:CI:312:TYR:HD1	1.96	0.47
44:CI:314:ALA:HB1	45:CJ:179:VAL:HG11	1.96	0.47
45:CJ:4:ILE:HG13	45:CJ:50:TYR:HE1	1.78	0.47
44:CK:135:PHE:HB2	44:CK:166:LYS:HG2	1.96	0.47
45:CL:15:GLN:HA	45:CL:18:ALA:CB	2.44	0.47
44:CM:3:GLU:CA	44:CM:51:THR:HG23	2.43	0.47
44:CM:141:VAL:HG23	44:CM:190:SER:OG	2.14	0.47
45:CN:20:PHE:O	45:CN:24:ILE:HG12	2.13	0.47
44:DA:70:LEU:HB2	44:DA:98:ASP:HA	1.95	0.47
46:DB:502:GTP:H4'	44:DC:140:SER:HB2	1.94	0.47
44:DC:24:PHE:CE1	44:DC:236:SER:HA	2.50	0.47
44:DE:260:VAL:HG23	44:DE:265:ILE:O	2.14	0.47
44:DE:260:VAL:HG21	44:DE:266:HIS:HB3	1.97	0.47
45:DF:49:VAL:HG21	45:DF:241:ARG:HG2	1.97	0.47
44:DG:296:PHE:CD2	44:DG:335:ILE:HG21	2.50	0.47
44:DG:428:LEU:N	44:DG:431:ASP:OD2	2.47	0.47
45:DH:209:ASP:OD1	45:DH:213:ARG:HD3	2.14	0.47
45:DH:217:LEU:HD11	45:DH:220:PRO:HG3	1.96	0.47
45:DH:256:ASN:HD21	44:DI:180:ALA:HB1	1.78	0.47
44:DI:54:SER:HB3	44:DI:64:ARG:HH22	1.79	0.47
45:DJ:67:ASP:OD2	45:DJ:72:THR:HG21	2.14	0.47
45:DJ:256:ASN:ND2	45:DJ:350:LYS:HB2	2.30	0.47
45:DJ:327:ASP:HB3	44:DK:177:VAL:CG1	2.41	0.47
44:DK:183:GLU:N	44:DK:184:PRO:CD	2.77	0.47
44:DK:350:GLY:CA	45:DL:179:VAL:HG12	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:318:ARG:HH11	45:DL:358:PRO:HG3	1.79	0.47
44:DM:203:MET:CA	44:DM:203:MET:HE2	2.44	0.47
44:DM:225:THR:O	44:DM:228:ASN:HB2	2.13	0.47
45:DN:46:ARG:HB3	45:DN:49:VAL:HG21	1.95	0.47
45:DN:229:VAL:HG12	45:DN:233:MET:HG2	1.96	0.47
45:DN:342:VAL:HG22	45:DN:343:GLU:N	2.30	0.47
44:EA:265:ILE:HG12	44:EA:432:TYR:CE1	2.49	0.47
45:EB:166:THR:HG21	45:EB:196:ALA:CB	2.44	0.47
44:EC:31:GLN:OE1	44:EC:37:PRO:HB3	2.14	0.47
44:EC:265:ILE:CG2	44:EC:384:ILE:HD11	2.27	0.47
44:EC:399:TYR:O	44:EC:402:ARG:N	2.46	0.47
45:ED:181:GLU:N	45:ED:182:PRO:HD2	2.30	0.47
45:ED:242:PHE:HB3	45:ED:243:PRO:CD	2.45	0.47
45:EH:42:LEU:HG	45:EH:45:GLU:OE2	2.15	0.47
45:EH:168:SER:O	45:EH:202:ILE:HG22	2.14	0.47
44:EI:51:THR:HG22	44:EI:52:PHE:CE1	2.49	0.47
45:EJ:28:HIS:C	45:EJ:43:GLN:HE21	2.17	0.47
45:EJ:156:ARG:NH2	45:EJ:197:ASP:OD2	2.48	0.47
45:EJ:286:VAL:HG11	45:EJ:325:GLU:HB3	1.97	0.47
45:EJ:286:VAL:CB	45:EJ:363:MET:HE2	2.45	0.47
45:EJ:343:GLU:OE2	45:EJ:430:ALA:N	2.43	0.47
44:EK:1:MET:H2	44:EK:2:ARG:NH1	2.12	0.47
44:EK:32:PRO:HD2	44:EK:33:ASP:N	2.30	0.47
45:EL:77:ARG:O	45:EL:82:GLY:HA3	2.14	0.47
45:EL:319:GLY:HA2	45:EL:355:ASP:O	2.14	0.47
44:EM:152:LEU:HD12	44:EM:155:GLU:OE1	2.15	0.47
45:EN:86:ARG:HH21	45:EN:87:PRO:CG	2.28	0.47
45:EN:108:GLU:HA	45:EN:111:GLU:OE1	2.15	0.47
45:EN:134:GLN:HA	45:EN:165:GLU:O	2.14	0.47
45:EN:405:GLU:HA	45:EN:408:PHE:HD2	1.79	0.47
44:FA:96:LYS:O	45:FB:1:MET:HE2	2.14	0.47
45:FB:130:LEU:HB3	45:FB:162:ARG:HD2	1.96	0.47
45:FB:252:LYS:O	45:FB:255:VAL:HB	2.15	0.47
44:FC:19:ALA:HA	44:FC:22:GLU:OE1	2.14	0.47
44:FC:98:ASP:OD1	44:FC:99:ALA:N	2.47	0.47
44:FC:276:ILE:CD1	44:FC:281:ALA:HA	2.44	0.47
44:FC:344:VAL:HG22	44:FC:345:ASP:H	1.79	0.47
45:FD:268:ILE:CG1	45:FD:368:VAL:HG12	2.45	0.47
44:FE:7:ILE:HD11	44:FE:137:VAL:CB	2.44	0.47
44:FE:146:GLY:HA3	46:FE:501:GTP:O2B	2.14	0.47
44:FE:348:PRO:CG	45:FH:388:MET:HE3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FF:172:SER:OG	45:FF:175:VAL:HG22	2.13	0.47
45:FF:304:ASP:OD1	45:FF:305:PRO:HD2	2.15	0.47
44:FG:98:ASP:HB3	45:FH:249:ASP:OD2	2.14	0.47
45:FH:68:LEU:HD23	45:FH:97:ALA:N	2.30	0.47
44:FI:188:ILE:HG21	44:FI:395:PHE:CE1	2.49	0.47
44:FK:287:SER:HB3	44:FK:290:GLU:HG2	1.96	0.47
45:FL:103:LYS:HD3	45:FL:401:GLU:OE2	2.15	0.47
45:FL:150:LEU:O	45:FL:150:LEU:HD23	2.15	0.47
44:FM:33:ASP:OD1	44:FM:35:GLN:HB2	2.14	0.47
44:FM:213:CYS:O	44:FM:217:LEU:HB2	2.14	0.47
45:GB:164:MET:HB3	45:GB:197:ASP:H	1.80	0.47
45:GB:380:ARG:HG3	45:GB:381:VAL:H	1.79	0.47
44:GC:118:CYS:O	44:GC:121:ARG:N	2.47	0.47
44:GC:319:TYR:CZ	44:GC:328:VAL:HG22	2.49	0.47
45:GD:13:GLY:O	45:GD:17:GLY:N	2.42	0.47
45:GD:230:SER:O	45:GD:233:MET:HB2	2.13	0.47
44:GE:54:SER:HB2	44:GE:64:ARG:NH2	2.23	0.47
44:GE:334:THR:CG2	44:GE:338:LYS:HE3	2.45	0.47
45:GF:318:ARG:HB2	45:GF:364:ALA:HB3	1.95	0.47
45:GH:20:PHE:O	45:GH:24:ILE:HG22	2.14	0.47
45:GH:170:VAL:HG23	45:GH:171:PRO:HD2	1.95	0.47
44:GI:2:ARG:O	44:GI:2:ARG:HG2	2.14	0.47
45:GJ:169:VAL:HG13	45:GJ:202:ILE:O	2.14	0.47
45:GJ:231:ALA:HB1	45:GJ:270:PHE:CE1	2.50	0.47
45:GJ:317:PHE:CD1	45:GJ:365:VAL:HG22	2.49	0.47
44:GK:67:PHE:C	44:GK:68:LEU:HD22	2.35	0.47
44:GK:70:LEU:HD11	44:GK:149:LEU:HD23	1.97	0.47
44:GK:98:ASP:HB3	45:GL:249:ASP:OD2	2.13	0.47
44:GK:188:ILE:HG21	44:GK:425:LEU:HD11	1.95	0.47
45:GL:7:ILE:HB	45:GL:135:ILE:HD13	1.96	0.47
44:GM:105:ARG:O	44:GM:110:ILE:HG12	2.13	0.47
44:GM:200:VAL:HG13	44:GM:268:MET:CE	2.44	0.47
45:GN:68:LEU:HD23	45:GN:96:GLY:C	2.33	0.47
45:GN:100:ASN:HD22	45:GN:103:LYS:CB	2.16	0.47
45:HD:173:PRO:HG3	45:HD:380:ARG:HB2	1.97	0.47
44:HE:5:ILE:CD1	44:HE:122:ILE:HG23	2.45	0.47
45:HF:342:VAL:HG13	45:HF:345:ILE:HG22	1.96	0.47
45:HH:144:GLY:O	45:HH:148:GLY:HA3	2.14	0.47
44:HI:2:ARG:HA	44:HI:133:GLN:HE22	1.78	0.47
45:HL:2:ARG:HH12	45:HL:240:LEU:HG	1.79	0.47
45:HL:181:GLU:N	45:HL:182:PRO:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:133:PHE:O	45:HN:165:GLU:N	2.44	0.47
45:HN:217:LEU:HD11	45:HN:220:PRO:CG	2.43	0.47
44:IA:223:THR:HG23	44:IA:225:THR:H	1.79	0.47
44:IA:262:TYR:HB3	44:IA:263:PRO:HD2	1.95	0.47
45:ID:327:ASP:O	45:ID:330:MET:HB2	2.13	0.47
45:IF:49:VAL:HG11	45:IF:241:ARG:HD2	1.97	0.47
45:IF:161:ASP:O	45:IF:162:ARG:NH2	2.47	0.47
44:IG:118:CYS:SG	44:IG:153:LEU:HD21	2.54	0.47
44:IG:145:THR:HG22	46:IG:501:GTP:PG	2.54	0.47
44:IG:373:ARG:HD2	44:IG:373:ARG:N	2.28	0.47
45:IH:299:MET:HE3	45:IH:305:PRO:HG3	1.95	0.47
44:II:372:MET:HG3	44:II:372:MET:O	2.13	0.47
45:IL:3:GLU:CG	45:IL:127:CYS:HB2	2.44	0.47
45:IL:152:ILE:HD13	45:IL:164:MET:HE3	1.95	0.47
44:IM:22:GLU:HG2	44:IM:23:LEU:N	2.29	0.47
44:IM:182:VAL:C	44:IM:184:PRO:HD2	2.35	0.47
44:IM:183:GLU:HG2	44:IM:184:PRO:CD	2.44	0.47
45:IN:323:THR:HG22	45:IN:353:ILE:HG12	1.95	0.47
45:JB:314:SER:HB2	45:JB:350:LYS:HB3	1.97	0.47
44:JC:17:GLY:HA2	44:JC:20:CYS:SG	2.54	0.47
45:JF:130:LEU:HD12	45:JF:131:GLN:N	2.28	0.47
45:JF:232:ALA:HB1	45:JF:268:ILE:HD12	1.96	0.47
45:JF:286:VAL:HG23	45:JF:321:MET:CE	2.45	0.47
44:JG:274:PRO:HD2	44:JG:374:ALA:CB	2.45	0.47
44:JG:372:MET:SD	44:JG:373:ARG:NH1	2.87	0.47
44:JG:411:GLU:HG3	44:JG:411:GLU:O	2.14	0.47
45:JH:217:LEU:HD11	45:JH:220:PRO:HA	1.97	0.47
45:JJ:183:TYR:CZ	45:JJ:388:MET:HG2	2.49	0.47
45:JJ:187:LEU:HD11	45:JJ:408:PHE:CZ	2.49	0.47
45:JL:415:MET:O	45:JL:419:VAL:HG23	2.13	0.47
44:JM:88:HIS:HB3	44:JM:91:GLN:HB2	1.96	0.47
44:JM:199:ASP:O	44:JM:266:HIS:HB2	2.14	0.47
44:JM:287:SER:OG	44:JM:290:GLU:HG2	2.14	0.47
44:JM:386:GLU:O	44:JM:389:SER:OG	2.25	0.47
45:JN:20:PHE:CD1	45:JN:233:MET:HE2	2.49	0.47
45:JN:260:PHE:HB2	45:JN:263:LEU:CG	2.44	0.47
44:KA:60:LYS:HE2	44:KA:62:VAL:HG23	1.96	0.47
45:KB:203:ASP:HB3	45:KB:205:GLU:OE1	2.14	0.47
45:KB:210:ILE:HG21	45:KB:228:LEU:HD21	1.96	0.47
45:KB:211:CYS:HA	45:KB:215:LEU:CB	2.43	0.47
44:KC:11:GLN:HG3	44:KC:74:VAL:CG2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:102:ASN:CB	44:KC:105:ARG:HG3	2.44	0.47
44:KC:174:SER:OG	44:KC:207:GLU:HB2	2.14	0.47
45:KD:262:ARG:HG2	45:KD:421:GLU:OE1	2.14	0.47
44:KG:164:LYS:HE2	44:KG:164:LYS:HA	1.96	0.47
44:KG:326:LYS:CD	45:KJ:220:PRO:HD2	2.43	0.47
44:KI:96:LYS:HA	44:KI:96:LYS:HE2	1.96	0.47
44:KI:121:ARG:HA	44:KI:121:ARG:HE	1.77	0.47
45:KJ:222:TYR:O	45:KJ:226:ASN:ND2	2.47	0.47
45:KJ:228:LEU:HD21	45:KJ:273:LEU:CD1	2.38	0.47
44:KK:358:GLN:CD	44:KK:359:PRO:HD2	2.35	0.47
44:KK:394:LYS:HG2	45:KL:346:PRO:HG3	1.96	0.47
45:KL:60:VAL:CG2	45:KL:61:PRO:HD2	2.44	0.47
45:KL:280:GLN:HG3	45:KL:281:TYR:CD2	2.47	0.47
44:KM:5:ILE:HD12	44:KM:132:LEU:HD11	1.95	0.47
44:KM:339:ARG:NE	44:KM:339:ARG:HA	2.29	0.47
45:KN:6:HIS:HD2	45:KN:134:GLN:O	1.97	0.47
45:KN:390:ARG:O	45:KN:390:ARG:HD3	2.15	0.47
44:LC:259:LEU:HD23	44:LC:314:ALA:HB1	1.96	0.47
45:LD:269:GLY:HA2	45:LD:300:MET:HE2	1.97	0.47
45:LD:292:GLN:NE2	45:LD:298:ASN:HD22	2.13	0.47
44:LE:104:ALA:HA	44:LE:413:MET:CE	2.44	0.47
44:LG:26:LEU:HD22	44:LG:364:PRO:HD3	1.97	0.47
44:LG:172:TYR:HB3	44:LG:173:PRO:HD2	1.95	0.47
44:LG:385:ALA:HB2	44:LG:432:TYR:CG	2.50	0.47
44:LI:35:GLN:O	44:LI:37:PRO:HD3	2.14	0.47
44:LI:433:GLU:O	44:LI:437:ILE:HG23	2.13	0.47
45:LJ:101:TRP:CE3	45:LJ:187:LEU:HD13	2.50	0.47
45:LJ:383:GLU:O	45:LJ:386:THR:HG22	2.14	0.47
44:LM:278:ALA:HA	44:LM:281:ALA:HB3	1.96	0.47
44:MA:231:ILE:O	44:MA:235:ILE:HD12	2.14	0.47
44:MA:288:VAL:HA	44:MA:291:ILE:CG1	2.39	0.47
44:MA:372:MET:O	44:MA:373:ARG:HG3	2.14	0.47
45:MB:167:PHE:CD2	45:MB:233:MET:HG3	2.47	0.47
44:ME:137:VAL:O	44:ME:137:VAL:HG23	2.14	0.47
45:MF:383:GLU:O	45:MF:386:THR:HG22	2.13	0.47
44:MG:185:TYR:CE1	44:MG:398:MET:HE3	2.49	0.47
44:MG:407:TRP:HZ3	45:MH:255:VAL:CA	2.23	0.47
44:MI:276:ILE:O	44:MI:281:ALA:HB2	2.14	0.47
45:MJ:214:THR:O	45:MJ:275:SER:HB3	2.14	0.47
45:ML:215:LEU:O	45:ML:216:LYS:HG2	2.15	0.47
45:ML:238:CYS:HA	45:ML:241:ARG:HH21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:52:PHE:HZ	44:MM:239:THR:HG21	1.79	0.47
44:MM:276:ILE:HG23	44:MM:281:ALA:HB1	1.96	0.47
45:MN:5:VAL:HG23	45:MN:62:ARG:HB3	1.96	0.47
45:MN:106:TYR:CD2	45:MN:403:MET:HE1	2.50	0.47
45:MN:377:MET:O	45:MN:380:ARG:HG2	2.15	0.47
44:NA:183:GLU:CG	44:NA:184:PRO:HD3	2.44	0.47
44:NA:425:LEU:O	44:NA:429:GLU:HG2	2.13	0.47
45:ND:286:VAL:HA	45:ND:289:LEU:CG	2.43	0.47
44:NE:189:LEU:O	44:NE:189:LEU:HD12	2.14	0.47
45:NF:172:SER:OG	45:NF:205:GLU:HB3	2.14	0.47
44:NG:239:THR:HA	44:NG:242:LEU:HD13	1.97	0.47
44:NG:289:ALA:HA	44:NG:292:THR:CG2	2.44	0.47
45:NH:139:LEU:HG	45:NH:188:SER:OG	2.13	0.47
45:NH:216:LYS:HE3	45:NH:275:SER:CB	2.44	0.47
45:NH:218:THR:HG23	45:NH:219:THR:HG23	1.97	0.47
44:NI:3:GLU:HG2	44:NI:64:ARG:NE	2.28	0.47
44:NI:22:GLU:HG3	44:NI:23:LEU:N	2.29	0.47
44:NI:93:ILE:HD12	44:NI:93:ILE:H	1.80	0.47
44:NI:189:LEU:HD11	44:NI:418:PHE:CE2	2.49	0.47
45:NJ:44:LEU:HA	45:NJ:47:ILE:HG12	1.96	0.47
45:NJ:336:LYS:HE3	45:NJ:337:ASN:OD1	2.14	0.47
45:NL:130:LEU:HD12	45:NL:131:GLN:N	2.29	0.47
45:NL:334:GLN:HB2	45:NL:349:ILE:CD1	2.44	0.47
44:NM:11:GLN:HG2	44:NM:12:GLY:N	2.29	0.47
44:NM:291:ILE:HG13	44:NM:292:THR:N	2.30	0.47
45:NN:88:ASP:OD2	45:ON:278:SER:HB2	2.14	0.47
45:NN:143:THR:HG23	45:NN:144:GLY:N	2.30	0.47
45:NN:178:THR:HG22	45:NN:180:VAL:H	1.79	0.47
45:NN:326:VAL:O	45:NN:330:MET:HG2	2.14	0.47
44:OA:88:HIS:O	44:OA:91:GLN:HG2	2.14	0.47
45:OB:3:GLU:HG3	45:OB:62:ARG:HH12	1.78	0.47
45:OB:274:THR:HB	45:OB:282:ARG:HH12	1.79	0.47
44:OC:11:GLN:HG3	46:OC:501:GTP:O1G	2.14	0.47
44:OC:72:PRO:HG2	45:OD:1:MET:CE	2.44	0.47
44:OC:185:TYR:CZ	44:OC:398:MET:HB3	2.49	0.47
44:OC:286:LEU:O	44:OC:373:ARG:NE	2.32	0.47
45:OD:172:SER:HB2	45:OD:380:ARG:CZ	2.45	0.47
44:OE:163:LYS:HE2	44:OE:163:LYS:HA	1.97	0.47
44:OE:276:ILE:HD11	44:OE:286:LEU:HD21	1.95	0.47
44:OE:398:MET:HG2	45:OF:345:ILE:HG22	1.97	0.47
45:OF:217:LEU:H	45:OF:217:LEU:HD23	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:296:ALA:C	45:OF:299:MET:HE1	2.35	0.47
44:OG:373:ARG:HG2	44:OG:373:ARG:HH11	1.80	0.47
44:OG:394:LYS:HG2	45:OH:346:PRO:HG2	1.96	0.47
45:OH:4:ILE:HG13	45:OH:5:VAL:N	2.29	0.47
44:OI:72:PRO:HG2	45:OJ:1:MET:SD	2.55	0.47
44:OI:102:ASN:CG	44:OI:105:ARG:HG3	2.35	0.47
44:OI:273:ALA:HB1	44:OI:274:PRO:HA	1.96	0.47
44:OK:189:LEU:HD11	44:OK:413:MET:CE	2.44	0.47
44:OK:315:CYS:HA	44:OK:379:SER:CB	2.44	0.47
45:OL:8:GLN:HE21	45:OL:65:LEU:HG	1.79	0.47
44:OM:89:PRO:HG3	44:PM:280:LYS:HE3	1.95	0.47
44:OM:252:ILE:HG13	44:OM:253:THR:N	2.28	0.47
45:ON:67:ASP:C	45:ON:68:LEU:HD22	2.35	0.47
45:ON:116:VAL:C	45:ON:120:VAL:HG23	2.35	0.47
45:ON:167:PHE:CE1	45:ON:200:MET:HG3	2.49	0.47
45:PB:25:SER:HB2	45:PB:81:PHE:CE2	2.50	0.47
45:PB:171:PRO:HG3	45:PB:181:GLU:HB3	1.97	0.47
45:PB:267:MET:HE3	45:PB:299:MET:HG3	1.96	0.47
44:PC:210:TYR:CD1	45:PD:324:LYS:HD2	2.49	0.47
44:PG:5:ILE:O	44:PG:136:LEU:N	2.33	0.47
44:PG:68:LEU:HG	44:PG:93:ILE:HD13	1.96	0.47
44:PI:32:PRO:HB3	44:PI:83:TYR:HE1	1.78	0.47
44:PI:69:ASP:OD1	44:PI:70:LEU:N	2.47	0.47
44:PI:175:PRO:HD2	44:PI:207:GLU:OE1	2.14	0.47
45:PJ:97:ALA:HB3	45:PJ:143:THR:HB	1.97	0.47
45:PJ:183:TYR:OH	45:PJ:393:ALA:O	2.22	0.47
45:PL:67:ASP:HB3	45:PL:73:MET:HE2	1.96	0.47
45:PL:268:ILE:HG13	45:PL:300:MET:CE	2.43	0.47
44:PM:14:ILE:CD1	44:PM:69:ASP:HB2	2.44	0.47
44:PM:89:PRO:CD	44:QM:280:LYS:HD2	2.44	0.47
44:PM:225:THR:CB	44:PM:229:ARG:HH21	2.28	0.47
44:PM:420:GLU:CA	44:PM:423:GLU:HG2	2.44	0.47
45:PN:286:VAL:CG1	45:PN:325:GLU:HG2	2.44	0.47
44:QA:209:ILE:HG12	44:QA:302:MET:HE3	1.97	0.47
45:QB:38:GLY:HA3	45:QB:43:GLN:HE22	1.77	0.47
45:QB:87:PRO:HG2	45:RB:278:SER:CB	2.44	0.47
45:QB:314:SER:HB3	45:QB:368:VAL:O	2.15	0.47
44:QC:319:TYR:HB2	44:QC:355:ILE:HA	1.96	0.47
44:QG:256:GLN:O	45:QH:397:TRP:NE1	2.43	0.47
45:QH:67:ASP:OD1	45:QH:68:LEU:N	2.48	0.47
45:QH:282:ARG:CG	45:QH:283:ALA:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:406:MET:O	45:QH:409:THR:N	2.47	0.47
44:QI:425:LEU:O	44:QI:429:GLU:HG3	2.15	0.47
45:QJ:109:GLY:O	45:QJ:113:ILE:HB	2.14	0.47
45:QJ:113:ILE:CD1	45:QJ:150:LEU:HD22	2.44	0.47
45:QJ:263:LEU:HG	45:QJ:422:TYR:CE1	2.50	0.47
44:QK:186:ASN:OD1	44:QK:187:SER:N	2.47	0.47
44:RA:270:SER:HB3	44:RA:378:ILE:HD13	1.96	0.47
45:RB:86:ARG:NE	45:RB:86:ARG:HA	2.29	0.47
45:RB:213:ARG:O	45:RB:216:LYS:HG2	2.15	0.47
44:RC:2:ARG:NE	44:RC:242:LEU:O	2.47	0.47
44:RC:151:SER:O	44:RC:155:GLU:HG3	2.14	0.47
44:RE:62:VAL:HG13	44:RE:62:VAL:O	2.14	0.47
44:RG:3:GLU:HB3	44:RG:51:THR:O	2.13	0.47
44:RG:234:VAL:HG22	44:RG:272:TYR:HB2	1.97	0.47
45:RH:166:THR:HG21	45:RH:196:ALA:HB1	1.96	0.47
45:RH:178:THR:CG2	45:RH:180:VAL:HG12	2.44	0.47
45:RJ:265:PHE:HB2	45:RJ:374:ILE:CD1	2.44	0.47
45:RJ:305:PRO:HB3	45:RJ:310:TYR:CZ	2.49	0.47
44:RK:113:GLU:OE2	44:RK:114:ILE:HD13	2.15	0.47
44:RK:288:VAL:HA	44:RK:291:ILE:HG12	1.96	0.47
45:RL:8:GLN:HB2	45:RL:13:GLY:O	2.13	0.47
45:RL:159:TYR:HB3	45:RL:162:ARG:HG3	1.95	0.47
45:RL:165:GLU:CD	45:RL:250:LEU:HD13	2.34	0.47
45:RN:319:GLY:HA2	45:RN:357:PRO:HG3	1.96	0.47
44:SA:5:ILE:HG21	44:SA:125:LEU:HD13	1.97	0.47
45:SB:317:PHE:HA	45:SB:365:VAL:CG2	2.30	0.47
44:SC:274:PRO:HG3	44:SC:286:LEU:HD12	1.97	0.47
45:SD:12:CYS:HB2	48:SD:501:GDP:C8	2.49	0.47
44:SE:9:VAL:HG22	44:SE:138:PHE:O	2.14	0.47
45:SF:100:ASN:HB3	45:SF:103:LYS:HB3	1.97	0.47
45:SF:323:THR:O	45:SF:326:VAL:HB	2.13	0.47
44:SG:183:GLU:HG2	44:SG:184:PRO:CD	2.44	0.47
44:SG:204:LEU:CD2	44:SG:302:MET:HG3	2.44	0.47
44:SG:272:TYR:CE1	44:SG:376:CYS:HB2	2.49	0.47
45:SH:7:ILE:CB	45:SH:135:ILE:HG22	2.38	0.47
45:SH:100:ASN:HB3	45:SH:103:LYS:CB	2.44	0.47
45:SH:116:VAL:HG22	45:SH:120:VAL:CG2	2.43	0.47
45:SH:116:VAL:CA	45:SH:119:VAL:HG12	2.43	0.47
45:SH:182:PRO:HB2	45:SH:388:MET:HE2	1.97	0.47
44:SI:268:MET:HB3	44:SI:380:ASN:CG	2.35	0.47
44:SI:407:TRP:O	44:SI:411:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:331:LEU:HD22	44:SK:177:VAL:CG2	2.42	0.47
45:SN:64:ILE:HG21	45:SN:120:VAL:HG22	1.95	0.47
44:TA:213:CYS:O	44:TA:217:LEU:N	2.47	0.47
44:TA:271:SER:OG	44:TA:301:MET:HG2	2.15	0.47
45:TD:344:TRP:CE3	45:TD:345:ILE:HB	2.48	0.47
45:TF:173:PRO:CG	45:TF:380:ARG:HH11	2.12	0.47
45:TF:256:ASN:HB2	45:TF:350:LYS:HD2	1.97	0.47
44:TG:28:HIS:NE2	44:TG:243:ARG:HD2	2.29	0.47
44:TG:184:PRO:O	44:TG:188:ILE:HG12	2.14	0.47
44:TG:323:VAL:O	44:TG:323:VAL:HG13	2.15	0.47
44:TG:344:VAL:HG22	44:TG:345:ASP:N	2.29	0.47
44:TG:409:VAL:HA	44:TG:413:MET:O	2.14	0.47
45:TH:116:VAL:O	45:TH:119:VAL:HG12	2.15	0.47
45:TH:285:THR:OG1	45:TH:287:PRO:HD2	2.14	0.47
45:TJ:11:GLN:O	45:TJ:14:ASN:HB2	2.14	0.47
45:TJ:286:VAL:CG2	45:TJ:321:MET:HG2	2.44	0.47
45:TJ:312:THR:C	45:TJ:370:ASN:HD22	2.18	0.47
45:TJ:347:ASN:HB3	44:TK:178:SER:CB	2.44	0.47
44:TK:108:TYR:O	44:TK:112:LYS:NZ	2.27	0.47
44:TK:112:LYS:HG3	44:TK:113:GLU:N	2.28	0.47
44:TM:89:PRO:HG3	44:UM:280:LYS:CG	2.45	0.47
44:TM:324:VAL:HG12	44:TM:326:LYS:HG3	1.96	0.47
45:UD:190:HIS:ND1	45:UD:411:ALA:HA	2.28	0.47
45:UD:252:LYS:HA	45:UD:255:VAL:HG23	1.96	0.47
45:UD:318:ARG:HB3	45:UD:357:PRO:CB	2.44	0.47
45:UD:399:THR:HA	45:UD:403:MET:O	2.14	0.47
44:UE:349:THR:CG2	45:UF:179:VAL:HA	2.43	0.47
45:UF:4:ILE:HG22	45:UF:132:GLY:H	1.80	0.47
45:UF:50:TYR:HE2	45:UF:237:THR:HG1	1.58	0.47
45:UF:405:GLU:HA	45:UF:408:PHE:CD2	2.49	0.47
44:UG:5:ILE:HD12	44:UG:135:PHE:CE1	2.49	0.47
45:UH:156:ARG:HG3	45:UH:195:ASN:HB3	1.96	0.47
45:UH:185:ALA:HA	45:UH:188:SER:OG	2.15	0.47
44:UI:253:THR:O	44:UI:257:THR:HG23	2.15	0.47
45:UJ:69:GLU:OE1	45:UJ:69:GLU:HA	2.15	0.47
44:UK:140:SER:HA	44:UK:171:ILE:HB	1.95	0.47
45:UL:117:LEU:HD22	45:UL:154:LYS:CD	2.45	0.47
45:UN:73:MET:HA	45:UN:74:ASP:HA	1.48	0.47
45:UN:210:ILE:HD13	45:UN:300:MET:CE	2.44	0.47
44:VC:120:ASP:OD2	44:VC:149:LEU:HB3	2.14	0.47
45:VD:61:PRO:CG	45:VD:84:LEU:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:110:ALA:O	45:VD:113:ILE:HG22	2.14	0.47
45:VD:163:ILE:HG22	45:VD:164:MET:N	2.29	0.47
45:VD:304:ASP:OD2	45:VD:307:HIS:N	2.47	0.47
45:VF:192:LEU:HG	45:VF:196:ALA:CB	2.43	0.47
45:VF:251:ARG:O	45:VF:255:VAL:N	2.48	0.47
44:VG:224:TYR:CZ	45:VH:323:THR:HG21	2.48	0.47
45:VH:21:TRP:HA	45:VH:24:ILE:HG22	1.96	0.47
45:VH:60:VAL:O	45:VH:60:VAL:HG23	2.13	0.47
45:VH:67:ASP:OD2	45:VH:69:GLU:HG3	2.14	0.47
45:VJ:301:CYS:HB2	45:VJ:377:MET:CE	2.44	0.47
44:VK:128:ASN:HD21	44:WK:285:GLN:HE22	1.63	0.47
45:VN:19:LYS:O	45:VN:23:VAL:N	2.43	0.47
45:VN:251:ARG:HA	45:VN:254:ALA:HB3	1.96	0.47
44:WA:103:PHE:HE1	44:WA:148:GLY:HA2	1.79	0.47
45:WB:184:ASN:CA	45:WB:187:LEU:HD12	2.44	0.47
44:WC:172:TYR:CE1	44:WC:191:THR:HG22	2.49	0.47
44:WE:98:ASP:OD1	44:WE:99:ALA:N	2.47	0.47
45:WH:123:GLU:O	45:WH:126:GLY:N	2.47	0.47
44:WI:88:HIS:ND1	44:WI:90:GLU:HG2	2.29	0.47
44:WI:437:ILE:O	44:WI:437:ILE:HG13	2.14	0.47
45:WJ:35:THR:HG23	45:WJ:37:HIS:HE1	1.77	0.47
45:WJ:121:ARG:HB2	45:WJ:121:ARG:HH11	1.79	0.47
45:WJ:345:ILE:O	45:WJ:345:ILE:HG23	2.13	0.47
44:WK:22:GLU:OE2	44:WK:83:TYR:HE2	1.97	0.47
44:WK:209:ILE:O	44:WK:212:ILE:HB	2.14	0.47
45:WL:183:TYR:CE1	45:WL:388:MET:HE3	2.50	0.47
45:WN:378:PHE:HB3	45:WN:419:VAL:HG22	1.96	0.47
1:6H:217:GLN:CD	45:FD:320:ARG:CZ	2.83	0.47
2:1A:124:LEU:HD13	45:AF:279:GLN:HE22	1.78	0.47
18:1F:97:LEU:HG	44:GI:37:PRO:HG2	1.97	0.47
20:1J:50:LYS:HZ3	45:HD:53:GLU:HG3	1.78	0.47
21:1K:45:PHE:CE1	45:JF:92:PHE:HE1	2.33	0.47
10:1N:259:ILE:HD11	45:KJ:83:GLN:HA	1.97	0.47
26:1R:62:MET:HG2	45:MD:41:ASP:CG	2.34	0.47
27:1W:243:ILE:HA	45:LB:276:ARG:NH2	2.29	0.47
29:2F:81:LYS:HZ2	45:GF:128:ASP:HA	1.76	0.47
32:2I:40:LYS:HG2	44:GG:214:ARG:HD3	1.96	0.47
21:2K:266:LEU:HB3	44:GK:282:TYR:CZ	2.50	0.47
10:2N:249:LEU:HD11	45:KB:73:MET:CB	2.43	0.47
24:2O:136:GLN:HG3	45:VN:219:THR:OG1	2.13	0.47
25:2P:439:HIS:CE1	44:TK:278:ALA:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2W:208:LEU:CG	44:LM:372:MET:HG3	2.44	0.47
27:2W:208:LEU:HD21	44:LM:372:MET:HG3	1.96	0.47
28:3C:222:ILE:HG22	44:KA:221:ARG:CG	2.39	0.47
31:3H:187:LEU:HD21	45:AH:276:ARG:HH22	1.77	0.47
26:3R:26:SER:OG	44:MK:47:ASP:OD2	2.16	0.47
35:4R:175:GLU:CD	45:AH:31:ASP:HB3	2.35	0.47
35:4R:249:LEU:HD12	44:CE:370:LYS:HE3	1.91	0.47
37:5D:34:PHE:CD2	44:KK:430:LYS:O	2.58	0.47
38:5G:186:LEU:O	38:5G:189:ILE:HG12	2.13	0.47
11:5Q:7:GLN:O	11:5Q:7:GLN:HG3	2.14	0.47
35:5R:219:LYS:CE	45:BL:78:ALA:HB3	2.45	0.47
41:6G:230:TYR:OH	44:UE:120:ASP:N	2.47	0.47
35:6R:537:LYS:HB3	35:6R:537:LYS:HE3	1.68	0.47
35:6R:573:LEU:HD21	35:6R:580:LEU:HD12	1.97	0.47
35:7R:118:LEU:HD11	35:7R:127:ILE:CD1	2.43	0.47
35:7R:447:PHE:HE1	35:7R:454:MET:HB3	1.79	0.47
43:8P:109:UNK:O	43:8P:113:UNK:N	2.47	0.47
44:AA:342:GLN:O	44:AA:342:GLN:HG2	2.14	0.47
45:AB:7:ILE:HD11	45:AB:64:ILE:HD13	1.96	0.47
45:AB:312:THR:HG22	45:AB:370:ASN:HB3	1.96	0.47
44:AC:141:VAL:HG12	44:AC:172:TYR:HA	1.96	0.47
44:AC:398:MET:HE2	45:AD:345:ILE:HA	1.95	0.47
45:AD:67:ASP:OD2	45:AD:72:THR:HG21	2.14	0.47
45:AD:112:LEU:O	45:AD:112:LEU:HD23	2.14	0.47
45:AD:186:THR:HG21	45:AD:385:PHE:CD1	2.49	0.47
44:AE:176:GLN:HG2	44:AE:177:VAL:N	2.29	0.47
44:AE:283:HIS:HD2	44:ME:60:LYS:HD3	1.78	0.47
45:AF:207:LEU:HD11	45:AF:300:MET:CE	2.44	0.47
45:AF:287:PRO:O	45:AF:290:THR:HG22	2.15	0.47
44:AG:2:ARG:O	44:AG:2:ARG:HG2	2.13	0.47
44:AG:439:THR:HG21	45:AJ:390:ARG:HD2	1.95	0.47
45:AJ:130:LEU:HD22	45:AJ:162:ARG:CG	2.44	0.47
44:AK:102:ASN:HB3	44:AK:105:ARG:CG	2.45	0.47
44:AK:182:VAL:HG22	44:AK:182:VAL:O	2.14	0.47
44:AK:221:ARG:NH1	45:AL:325:GLU:OE2	2.45	0.47
45:AL:183:TYR:O	45:AL:187:LEU:HD23	2.14	0.47
44:AM:210:TYR:CZ	45:AN:324:LYS:HA	2.50	0.47
44:BA:296:PHE:HE2	44:BA:335:ILE:CG2	2.27	0.47
44:BC:134:GLY:C	44:BC:135:PHE:HD2	2.18	0.47
44:BC:233:GLN:HA	44:BC:233:GLN:OE1	2.14	0.47
45:BD:222:TYR:O	45:BD:226:ASN:ND2	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:212:ILE:HD12	44:BE:300:ASN:HA	1.93	0.47
44:BE:243:ARG:HG3	44:BE:244:PHE:CD1	2.50	0.47
45:BF:62:ARG:NH1	45:BF:62:ARG:CB	2.77	0.47
45:BF:237:THR:HG23	45:BF:241:ARG:NH1	2.28	0.47
45:BH:184:ASN:OD1	45:BH:185:ALA:N	2.48	0.47
45:BH:268:ILE:HG22	45:BH:368:VAL:HG12	1.95	0.47
44:BI:2:ARG:NH1	44:BI:242:LEU:O	2.44	0.47
44:BI:384:ILE:O	44:BI:387:VAL:HG22	2.14	0.47
45:BJ:86:ARG:C	45:BJ:86:ARG:HD2	2.34	0.47
44:BK:103:PHE:HE1	44:BK:148:GLY:HA2	1.78	0.47
44:BK:347:CYS:HA	45:BN:388:MET:CE	2.44	0.47
44:BM:260:VAL:HG12	44:BM:262:TYR:O	2.15	0.47
44:BM:319:TYR:HB2	44:BM:355:ILE:HD13	1.96	0.47
45:BN:86:ARG:HG3	45:CL:281:TYR:CD2	2.49	0.47
45:BN:151:LEU:O	45:BN:151:LEU:HD23	2.14	0.47
44:CA:98:ASP:OD1	44:CA:99:ALA:N	2.47	0.47
44:CA:188:ILE:HG22	44:CA:421:ALA:HB1	1.96	0.47
44:CA:269:LEU:HD23	44:CA:269:LEU:H	1.79	0.47
44:CA:426:ALA:O	44:CA:430:LYS:N	2.26	0.47
44:CC:6:SER:C	44:CC:7:ILE:HD13	2.33	0.47
44:CE:183:GLU:CD	44:CE:184:PRO:HD3	2.35	0.47
45:CF:36:TYR:CD1	45:CF:44:LEU:HD21	2.49	0.47
45:CF:52:ASN:OD1	45:CF:62:ARG:NH2	2.47	0.47
45:CF:344:TRP:CZ3	45:CF:345:ILE:HB	2.49	0.47
45:CH:20:PHE:CD1	45:CH:233:MET:SD	3.08	0.47
45:CH:260:PHE:CZ	44:CI:403:ALA:HA	2.49	0.47
44:CI:203:MET:N	44:CI:203:MET:SD	2.88	0.47
45:CJ:257:LEU:HD11	45:CJ:314:SER:HB2	1.96	0.47
44:CK:207:GLU:C	44:CK:210:TYR:H	2.16	0.47
44:CK:259:LEU:CD2	44:CK:380:ASN:HB2	2.41	0.47
44:CM:291:ILE:HG13	44:CM:292:THR:N	2.30	0.47
44:DA:9:VAL:HG13	44:DA:139:ASN:CB	2.38	0.47
44:DA:116:ASP:O	44:DA:119:LEU:HB2	2.14	0.47
44:DA:189:LEU:O	44:DA:193:SER:N	2.47	0.47
44:DA:255:PHE:HB3	44:DA:259:LEU:HD12	1.95	0.47
45:DB:238:CYS:HB2	45:DB:318:ARG:HH21	1.79	0.47
44:DC:132:LEU:HD21	44:DC:135:PHE:CE2	2.49	0.47
44:DC:319:TYR:CZ	44:DC:375:VAL:HG21	2.49	0.47
44:DC:424:ASP:O	44:DC:427:ALA:HB3	2.15	0.47
45:DD:395:LEU:O	45:DD:399:THR:HG23	2.13	0.47
44:DE:311:LYS:CE	44:DE:344:VAL:HA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:274:THR:OG1	45:DF:279:GLN:N	2.44	0.47
44:DG:228:ASN:HA	44:DG:231:ILE:HG22	1.95	0.47
44:DI:28:HIS:CD2	44:DI:49:PHE:HB3	2.50	0.47
45:DJ:318:ARG:HH11	45:DJ:358:PRO:CG	2.24	0.47
44:DK:145:THR:HG23	44:DK:146:GLY:N	2.30	0.47
45:DL:293:MET:SD	45:DL:365:VAL:HG12	2.54	0.47
45:DL:318:ARG:HG2	45:DL:354:CYS:SG	2.54	0.47
44:DM:272:TYR:CD2	44:DM:275:ILE:HD11	2.43	0.47
45:DN:341:PHE:HD1	45:DN:348:ASN:HD21	1.61	0.47
45:EB:4:ILE:HD11	45:EB:50:TYR:HH	1.79	0.47
45:EB:179:VAL:O	45:EB:182:PRO:HD2	2.13	0.47
45:ED:5:VAL:HG22	45:ED:133:PHE:CE1	2.50	0.47
45:ED:10:GLY:HA2	45:ED:67:ASP:OD1	2.14	0.47
45:ED:103:LYS:HD3	45:ED:401:GLU:OE2	2.14	0.47
45:ED:390:ARG:HG3	45:ED:391:ARG:H	1.78	0.47
44:EE:322:ASP:N	44:EE:373:ARG:NH1	2.63	0.47
45:EF:210:ILE:HG13	45:EF:213:ARG:HH11	1.78	0.47
44:EG:35:GLN:HG2	44:EG:36:MET:N	2.29	0.47
45:EH:230:SER:HA	45:EH:233:MET:HE2	1.94	0.47
45:EH:260:PHE:HA	44:EI:406:HIS:NE2	2.30	0.47
44:EI:45:GLY:O	44:EI:46:ASP:OD1	2.32	0.47
44:EI:172:TYR:HB3	44:EI:173:PRO:CD	2.38	0.47
44:EI:320:ARG:HA	44:EI:356:ASN:CB	2.37	0.47
45:EJ:245:GLN:O	45:EJ:246:LEU:HD12	2.14	0.47
44:EK:288:VAL:HA	44:EK:291:ILE:CG1	2.39	0.47
44:EK:346:TRP:O	44:EK:346:TRP:HE3	1.97	0.47
45:EL:267:MET:O	45:EL:368:VAL:HA	2.13	0.47
45:EL:313:ALA:O	45:EL:349:ILE:HA	2.14	0.47
44:EM:2:ARG:NH2	44:EM:243:ARG:HA	2.28	0.47
44:EM:254:GLU:HG2	45:EN:98:GLY:HA2	1.95	0.47
44:EM:306:ASP:OD1	44:EM:308:ARG:HB2	2.14	0.47
45:EN:202:ILE:HA	45:EN:300:MET:CE	2.45	0.47
44:FA:141:VAL:CG1	44:FA:172:TYR:HA	2.45	0.47
44:FA:371:VAL:HG22	44:FA:372:MET:N	2.30	0.47
45:FB:229:VAL:CG1	45:FB:233:MET:HE3	2.44	0.47
45:FD:104:GLY:O	45:FD:109:GLY:HA3	2.14	0.47
44:FE:318:MET:N	44:FE:376:CYS:O	2.32	0.47
44:FE:348:PRO:HG2	45:FH:388:MET:HE3	1.96	0.47
44:FG:23:LEU:HD21	44:FG:233:GLN:OE1	2.14	0.47
44:FG:326:LYS:CG	44:FG:327:ASP:N	2.78	0.47
45:FH:42:LEU:HA	45:FH:45:GLU:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:288:VAL:HG13	44:FK:373:ARG:NH2	2.29	0.47
44:FM:98:ASP:O	44:FM:105:ARG:NH1	2.48	0.47
45:FN:34:GLY:O	45:FN:58:ARG:HB2	2.14	0.47
45:FN:70:PRO:O	45:FN:74:ASP:N	2.20	0.47
44:GA:243:ARG:HG2	44:GA:244:PHE:CD1	2.48	0.47
45:GB:66:MET:HE3	45:GB:147:MET:CB	2.44	0.47
45:GB:258:ILE:HG23	45:GB:263:LEU:O	2.14	0.47
45:GB:374:ILE:HD12	45:GB:378:PHE:HE2	1.79	0.47
45:GB:421:GLU:O	45:GB:424:GLN:HB3	2.15	0.47
44:GC:97:GLU:HG2	44:GC:105:ARG:HH22	1.79	0.47
44:GC:344:VAL:HG22	44:GC:345:ASP:N	2.30	0.47
44:GE:13:GLY:HA2	44:GE:16:VAL:HG22	1.96	0.47
44:GG:317:MET:O	44:GG:318:MET:HE2	2.15	0.47
45:GH:58:ARG:NH2	45:HH:281:TYR:HD1	2.12	0.47
45:GH:209:ASP:OD1	45:GH:213:ARG:HD3	2.14	0.47
44:GI:88:HIS:HB3	44:GI:91:GLN:CD	2.35	0.47
44:GI:104:ALA:CB	44:GI:411:GLU:HB2	2.44	0.47
44:GI:256:GLN:NE2	45:GL:397:TRP:HH2	2.11	0.47
44:GK:261:PRO:HG2	44:GK:265:ILE:HB	1.96	0.47
44:GK:289:ALA:HA	44:GK:292:THR:CG2	2.45	0.47
45:GL:105:HIS:HE1	45:GL:150:LEU:HB2	1.77	0.47
45:GL:258:ILE:HG13	45:GL:266:PHE:CZ	2.45	0.47
45:GL:290:THR:CG2	45:GL:293:MET:HE1	2.32	0.47
44:GM:115:VAL:HG22	44:GM:119:LEU:HD23	1.96	0.47
45:GN:46:ARG:HA	45:GN:46:ARG:CZ	2.43	0.47
45:GN:377:MET:HA	45:GN:380:ARG:HD2	1.94	0.47
44:HA:268:MET:HE3	44:HA:380:ASN:CG	2.34	0.47
45:HB:272:PRO:CD	45:HB:289:LEU:HD21	2.43	0.47
44:HC:223:THR:HB	45:HD:322:SER:CB	2.45	0.47
45:HD:116:VAL:HA	45:HD:119:VAL:HG12	1.97	0.47
45:HD:258:ILE:HG23	45:HD:263:LEU:O	2.15	0.47
44:HE:22:GLU:HA	44:HE:83:TYR:OH	2.14	0.47
44:HE:257:THR:HG22	45:HH:397:TRP:CD2	2.50	0.47
44:HG:363:VAL:CG2	44:HG:364:PRO:HD2	2.44	0.47
44:HG:390:ARG:HG3	44:HG:391:LEU:CD2	2.44	0.47
44:HI:70:LEU:HD11	44:HI:149:LEU:HD23	1.94	0.47
44:HI:417:GLU:O	44:HI:420:GLU:HG2	2.15	0.47
45:HJ:257:LEU:HD11	45:HJ:314:SER:CB	2.36	0.47
44:HK:326:LYS:HA	44:HK:326:LYS:HD3	1.58	0.47
45:HL:238:CYS:HB2	45:HL:318:ARG:CZ	2.44	0.47
44:HM:270:SER:HB3	44:HM:378:ILE:CD1	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:64:ILE:HD11	45:HN:123:GLU:HG3	1.95	0.47
45:HN:213:ARG:HH21	45:HN:297:LYS:NZ	2.12	0.47
45:IB:23:VAL:CG2	45:IB:230:SER:HB3	2.39	0.47
45:IB:271:ALA:O	45:IB:365:VAL:HG22	2.14	0.47
45:IB:288:GLU:O	45:IB:291:GLN:HG3	2.14	0.47
45:IB:374:ILE:HD11	45:IB:422:TYR:CZ	2.49	0.47
44:IC:20:CYS:HB2	44:IC:24:PHE:CE2	2.49	0.47
44:IC:258:ASN:C	44:IC:259:LEU:HD12	2.34	0.47
45:ID:276:ARG:CB	45:ID:276:ARG:HH11	2.28	0.47
44:IE:51:THR:O	44:IE:52:PHE:HD1	1.98	0.47
44:IE:88:HIS:HD2	44:IE:91:GLN:OE1	1.98	0.47
45:IF:316:LEU:HA	45:IF:352:SER:OG	2.15	0.47
44:IG:11:GLN:HB3	46:IG:501:GTP:O3A	2.15	0.47
44:IG:201:ALA:HB3	44:IG:267:PHE:CD2	2.49	0.47
44:II:30:ILE:O	44:II:30:ILE:HG23	2.13	0.47
44:II:242:LEU:HD21	44:II:252:ILE:HG13	1.97	0.47
44:IK:133:GLN:HB3	44:IK:252:ILE:CG2	2.44	0.47
44:IK:287:SER:O	44:IK:290:GLU:HG2	2.14	0.47
45:IL:54:ALA:HB1	44:JI:284:GLU:O	2.15	0.47
44:IM:19:ALA:HA	44:IM:22:GLU:OE1	2.15	0.47
44:IM:88:HIS:HB3	44:IM:91:GLN:HG2	1.95	0.47
44:IM:172:TYR:HB3	44:IM:173:PRO:HD2	1.95	0.47
45:IN:22:GLU:CB	45:IN:81:PHE:HD2	2.28	0.47
45:JB:217:LEU:O	45:JB:217:LEU:HG	2.14	0.47
44:JC:115:VAL:CG1	44:JC:152:LEU:HD23	2.44	0.47
44:JC:258:ASN:C	44:JC:259:LEU:HD22	2.33	0.47
45:JD:121:ARG:O	45:JD:125:GLU:HG2	2.14	0.47
44:JE:326:LYS:HE3	45:JH:220:PRO:C	2.35	0.47
45:JF:76:VAL:HG13	45:JF:77:ARG:N	2.29	0.47
45:JH:36:TYR:O	45:JH:37:HIS:ND1	2.48	0.47
45:JJ:173:PRO:HG2	45:JJ:380:ARG:CZ	2.44	0.47
45:JL:190:HIS:CE1	45:JL:410:GLU:HG2	2.49	0.47
45:JL:251:ARG:HG2	45:JL:251:ARG:HH11	1.79	0.47
44:JM:175:PRO:CG	44:JM:304:LYS:HG2	2.44	0.47
45:KB:183:TYR:CE1	45:KB:388:MET:HE2	2.49	0.47
44:KC:195:LEU:HD21	44:KC:264:ARG:HH12	1.77	0.47
44:KC:238:LEU:HG	44:KC:255:PHE:CE2	2.49	0.47
45:KD:238:CYS:HB2	45:KD:318:ARG:CD	2.44	0.47
44:KE:229:ARG:O	44:KE:232:ALA:HB3	2.14	0.47
44:KE:363:VAL:HG13	44:KE:364:PRO:HD2	1.97	0.47
45:KF:66:MET:HB3	45:KF:91:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:135:ILE:HD13	45:KF:164:MET:HE3	1.97	0.47
44:KG:141:VAL:HG12	44:KG:187:SER:HA	1.95	0.47
44:KG:172:TYR:OH	44:KG:191:THR:HG22	2.14	0.47
44:KG:210:TYR:CD1	44:KG:227:LEU:HD21	2.49	0.47
44:KG:296:PHE:CD2	44:KG:335:ILE:HG21	2.50	0.47
44:KI:164:LYS:HE2	44:KI:164:LYS:HA	1.95	0.47
44:KI:166:LYS:C	44:KI:167:LEU:HD12	2.33	0.47
45:KJ:396:HIS:CA	45:KJ:399:THR:HG22	2.44	0.47
44:KK:78:VAL:HG11	44:KK:92:LEU:HD21	1.96	0.47
45:KL:251:ARG:NH1	45:KL:251:ARG:HB3	2.29	0.47
44:KM:26:LEU:HD11	44:KM:364:PRO:HD2	1.94	0.47
44:KM:107:HIS:ND1	44:KM:107:HIS:O	2.45	0.47
44:KM:136:LEU:HA	44:KM:167:LEU:O	2.14	0.47
44:KM:239:THR:OG1	44:KM:242:LEU:HD12	2.14	0.47
44:KM:317:MET:CE	44:KM:377:MET:HG2	2.44	0.47
45:KN:115:SER:O	45:KN:118:ASP:HB3	2.15	0.47
45:KN:166:THR:HG22	45:KN:198:GLU:O	2.14	0.47
45:KN:178:THR:O	45:KN:181:GLU:HB3	2.14	0.47
45:KN:263:LEU:HD23	45:KN:422:TYR:CE1	2.49	0.47
45:LB:86:ARG:HA	45:MB:281:TYR:HD2	1.79	0.47
44:LC:222:PRO:O	45:LD:322:SER:HB2	2.14	0.47
45:LD:289:LEU:HD22	45:LD:363:MET:CB	2.38	0.47
44:LE:170:THR:O	44:LE:171:ILE:HD13	2.15	0.47
45:LF:2:ARG:HG3	45:LF:240:LEU:HD21	1.96	0.47
44:LG:31:GLN:NE2	44:LG:35:GLN:H	2.12	0.47
44:LG:161:TYR:HD2	44:LG:164:LYS:HE3	1.79	0.47
45:LL:21:TRP:HZ3	45:LL:51:TYR:HE1	1.62	0.47
45:LL:60:VAL:CG2	45:LL:61:PRO:HD2	2.44	0.47
44:LM:106:GLY:C	44:LM:148:GLY:HA3	2.34	0.47
44:LM:141:VAL:HG23	44:LM:170:THR:HB	1.96	0.47
44:LM:320:ARG:CA	44:LM:356:ASN:HB3	2.43	0.47
45:LN:21:TRP:CH2	45:LN:61:PRO:HB3	2.49	0.47
45:MB:216:LYS:C	45:MB:217:LEU:HD22	2.33	0.47
44:ME:22:GLU:HG3	44:ME:83:TYR:OH	2.15	0.47
45:MF:83:GLN:OE1	45:MF:83:GLN:HA	2.14	0.47
45:MF:253:LEU:O	45:MF:257:LEU:HD13	2.14	0.47
44:MG:195:LEU:HD13	44:MG:267:PHE:HE1	1.79	0.47
45:MH:317:PHE:HB3	45:MH:321:MET:CE	2.44	0.47
45:MJ:9:GLY:HA3	45:MJ:66:MET:HE3	1.95	0.47
45:MJ:217:LEU:O	45:MJ:220:PRO:HD3	2.14	0.47
44:MK:5:ILE:HG13	44:MK:64:ARG:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:258:ASN:ND2	45:MN:179:VAL:HG22	2.30	0.47
44:MK:434:GLU:O	44:MK:437:ILE:HG12	2.14	0.47
44:MM:181:VAL:H	45:MN:256:ASN:ND2	2.12	0.47
44:NA:296:PHE:HD2	44:NA:335:ILE:HD11	1.79	0.47
44:NA:422:ARG:HG2	44:NA:422:ARG:HH11	1.79	0.47
44:NC:172:TYR:HE2	44:NC:203:MET:HE1	1.78	0.47
45:ND:395:LEU:HG	45:ND:399:THR:HG23	1.96	0.47
44:NE:107:HIS:ND1	44:NE:108:TYR:HE1	2.07	0.47
44:NE:318:MET:SD	44:NE:354:GLY:HA3	2.55	0.47
45:NF:80:PRO:O	45:NF:81:PHE:HB2	2.14	0.47
45:NF:83:GLN:O	45:OF:281:TYR:OH	2.27	0.47
44:NG:155:GLU:HA	44:NG:197:HIS:CE1	2.49	0.47
45:NH:62:ARG:O	45:NH:62:ARG:HG3	2.15	0.47
45:NJ:3:GLU:OE2	45:NJ:127:CYS:HB2	2.15	0.47
45:NJ:153:SER:HA	45:NJ:195:ASN:OD1	2.14	0.47
45:NJ:317:PHE:CD1	45:NJ:365:VAL:HG22	2.50	0.47
44:NK:174:SER:HB3	44:NK:207:GLU:CG	2.40	0.47
44:NK:188:ILE:HG23	44:NK:425:LEU:HD11	1.96	0.47
44:NK:346:TRP:CE3	45:NN:393:ALA:HB2	2.49	0.47
44:NK:431:ASP:O	44:NK:434:GLU:HG3	2.14	0.47
45:NL:187:LEU:CD2	45:NL:411:ALA:HB3	2.44	0.47
44:NM:108:TYR:HA	44:NM:112:LYS:HZ3	1.79	0.47
44:NM:204:LEU:HD22	44:NM:302:MET:HE2	1.95	0.47
44:NM:213:CYS:HB3	44:NM:217:LEU:HD23	1.96	0.47
45:NN:162:ARG:HG3	45:NN:163:ILE:N	2.29	0.47
45:OB:101:TRP:NE1	45:OB:146:GLY:HA2	2.29	0.47
45:OB:403:MET:HB2	45:OB:407:GLU:OE2	2.15	0.47
45:OD:409:THR:O	45:OD:412:GLU:HG3	2.15	0.47
44:OG:159:VAL:O	44:OG:159:VAL:HG12	2.14	0.47
44:OG:232:ALA:O	44:OG:235:ILE:HB	2.13	0.47
44:OG:319:TYR:O	44:OG:355:ILE:HA	2.15	0.47
44:OI:253:THR:HG23	44:OI:254:GLU:HG3	1.97	0.47
44:OI:348:PRO:HG3	45:OL:384:GLN:HG3	1.96	0.47
45:OJ:3:GLU:HB2	45:OJ:49:VAL:O	2.15	0.47
45:OJ:66:MET:HA	45:OJ:73:MET:HE1	1.97	0.47
45:OJ:97:ALA:HB1	45:OJ:143:THR:HB	1.95	0.47
45:OJ:133:PHE:H	45:OJ:164:MET:HA	1.80	0.47
45:OJ:139:LEU:HD23	45:OJ:188:SER:OG	2.15	0.47
44:OK:60:LYS:HZ1	44:OK:86:LEU:HA	1.79	0.47
44:OK:257:THR:HA	45:ON:397:TRP:CH2	2.50	0.47
44:OK:274:PRO:HG3	44:OK:286:LEU:CD1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:166:THR:HB	45:ON:199:CYS:HB3	1.95	0.47
44:PA:268:MET:HG3	44:PA:378:ILE:CG2	2.45	0.47
45:PB:312:THR:CB	45:PB:348:ASN:HB2	2.45	0.47
44:PC:422:ARG:O	44:PC:422:ARG:NH1	2.41	0.47
44:PE:184:PRO:HG2	44:PE:398:MET:CE	2.45	0.47
44:PE:190:SER:O	44:PE:194:LEU:HG	2.15	0.47
44:PE:276:ILE:HG23	44:PE:281:ALA:HB2	1.94	0.47
44:PG:224:TYR:HE1	45:PH:323:THR:CG2	2.27	0.47
44:PI:137:VAL:HG12	44:PI:167:LEU:O	2.13	0.47
44:PI:176:GLN:HG2	44:PI:177:VAL:N	2.29	0.47
44:PI:331:SER:O	44:PI:335:ILE:HG12	2.14	0.47
45:PJ:263:LEU:HD23	45:PJ:422:TYR:CE1	2.49	0.47
44:PK:55:GLU:OE1	44:PK:61:HIS:NE2	2.48	0.47
44:PK:244:PHE:CE2	44:PK:358:GLN:HG2	2.49	0.47
44:PM:14:ILE:HD13	44:PM:75:ILE:CD1	2.44	0.47
44:PM:332:ILE:HD11	44:PM:351:PHE:CG	2.49	0.47
45:PN:240:LEU:HD12	45:PN:249:ASP:CB	2.44	0.47
45:PN:324:LYS:O	45:PN:328:GLU:HG2	2.14	0.47
45:PN:410:GLU:HA	45:PN:413:SER:OG	2.15	0.47
44:QA:311:LYS:O	44:QA:382:THR:OG1	2.27	0.47
44:QA:401:LYS:HB2	44:QA:401:LYS:HE3	1.70	0.47
45:QB:287:PRO:O	45:QB:291:GLN:NE2	2.45	0.47
44:QC:71:GLU:CB	44:QC:98:ASP:HB2	2.44	0.47
44:QC:362:VAL:HG21	44:QC:368:LEU:O	2.15	0.47
45:QD:101:TRP:CD1	45:QD:146:GLY:HA2	2.49	0.47
44:QE:229:ARG:HH12	44:QE:366:GLY:HA2	1.78	0.47
45:QF:3:GLU:HB2	45:QF:49:VAL:HA	1.96	0.47
44:QI:171:ILE:HG23	44:QI:204:LEU:O	2.15	0.47
45:QJ:2:ARG:HB2	45:QJ:131:GLN:OE1	2.13	0.47
45:QJ:42:LEU:HA	45:QJ:45:GLU:OE1	2.14	0.47
45:QL:86:ARG:CD	45:RL:281:TYR:HD2	2.28	0.47
45:QL:417:ASP:HA	45:QL:420:SER:HG	1.79	0.47
44:RA:340:THR:HG23	44:RA:341:ILE:HG13	1.96	0.47
45:RB:24:ILE:HD13	45:RB:27:GLU:OE1	2.14	0.47
45:RB:192:LEU:CD1	45:RB:196:ALA:HB2	2.44	0.47
45:RB:254:ALA:O	44:RC:407:TRP:HH2	1.97	0.47
45:RB:342:VAL:HG13	45:RB:345:ILE:CG2	2.43	0.47
44:RC:124:LYS:O	44:RC:127:ASP:HB2	2.15	0.47
44:RC:167:LEU:HA	44:RC:200:VAL:HB	1.97	0.47
45:RD:8:GLN:HG3	45:RD:14:ASN:OD1	2.15	0.47
44:RG:16:VAL:HG23	44:RG:17:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:285:GLN:C	44:RG:287:SER:HB2	2.33	0.47
45:RH:36:TYR:CZ	45:RH:44:LEU:HG	2.48	0.47
45:RH:317:PHE:CE2	45:RH:326:VAL:HG13	2.49	0.47
44:RI:74:VAL:O	44:RI:78:VAL:HG23	2.15	0.47
44:RK:207:GLU:O	44:RK:210:TYR:HB2	2.14	0.47
44:RK:278:ALA:HB2	44:RK:369:ALA:HB2	1.96	0.47
45:RL:266:PHE:HB3	45:RL:369:GLY:O	2.15	0.47
45:RL:268:ILE:HB	45:RL:367:PHE:O	2.14	0.47
44:RM:209:ILE:HG21	44:RM:227:LEU:HB3	1.96	0.47
46:RM:501:GTP:O2A	46:RM:501:GTP:O4'	2.32	0.47
45:RN:145:SER:O	45:RN:149:THR:HG22	2.13	0.47
45:RN:290:THR:CA	45:RN:293:MET:HE3	2.44	0.47
44:SA:105:ARG:HG2	44:SA:411:GLU:OE1	2.15	0.47
44:SA:168:GLY:O	44:SA:201:ALA:HA	2.15	0.47
45:SB:42:LEU:HD11	45:SB:243:PRO:CG	2.44	0.47
45:SB:225:LEU:O	45:SB:229:VAL:HG23	2.14	0.47
44:SC:90:GLU:O	44:SC:121:ARG:CZ	2.62	0.47
44:SC:223:THR:CG2	44:SC:225:THR:HG23	2.44	0.47
44:SE:4:VAL:CG2	44:SE:136:LEU:HG	2.45	0.47
44:SE:7:ILE:O	44:SE:137:VAL:HA	2.15	0.47
44:SE:63:PRO:HG2	44:SE:86:LEU:O	2.14	0.47
44:SE:210:TYR:CE1	44:SE:227:LEU:HD21	2.49	0.47
44:SE:317:MET:CA	44:SE:377:MET:HA	2.36	0.47
45:SF:127:CYS:SG	45:SF:130:LEU:HB2	2.54	0.47
45:SF:412:GLU:O	45:SF:416:ASN:N	2.39	0.47
45:SH:242:PHE:CD1	45:SH:356:ILE:HG13	2.50	0.47
44:SI:188:ILE:CD1	44:SI:425:LEU:HD11	2.35	0.47
44:SI:235:ILE:O	44:SI:239:THR:N	2.48	0.47
44:SI:274:PRO:HB2	44:SI:276:ILE:HD13	1.94	0.47
45:SJ:178:THR:H	45:SJ:181:GLU:CD	2.14	0.47
45:SJ:253:LEU:O	45:SJ:257:LEU:HG	2.14	0.47
45:SJ:268:ILE:O	45:SJ:300:MET:HB2	2.15	0.47
45:SL:269:GLY:HA3	45:SL:299:MET:HE2	1.96	0.47
44:SM:5:ILE:HG22	44:SM:6:SER:N	2.29	0.47
44:SM:7:ILE:HG12	44:SM:136:LEU:O	2.15	0.47
45:SN:142:GLY:HA2	45:SN:184:ASN:HB2	1.97	0.47
45:SN:217:LEU:HD11	45:SN:220:PRO:HG3	1.95	0.47
44:TA:12:GLY:O	44:TA:16:VAL:HG12	2.14	0.47
44:TA:88:HIS:CG	44:TA:89:PRO:HD2	2.49	0.47
44:TA:151:SER:O	44:TA:155:GLU:HG3	2.15	0.47
45:TB:213:ARG:HG2	45:TB:213:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:256:ASN:CG	44:TC:181:VAL:HG12	2.34	0.47
44:TC:171:ILE:HD13	46:TC:501:GTP:HN22	1.79	0.47
44:TC:258:ASN:OD1	45:TD:179:VAL:HG22	2.14	0.47
44:TC:344:VAL:CG1	44:TC:347:CYS:HB2	2.43	0.47
44:TC:377:MET:SD	44:TC:379:SER:HB2	2.54	0.47
45:TD:86:ARG:HH21	45:TD:87:PRO:HD2	1.78	0.47
44:TE:75:ILE:CG2	44:TE:92:LEU:HD21	2.45	0.47
45:TH:178:THR:HG23	45:TH:181:GLU:HG3	1.96	0.47
45:TH:232:ALA:O	45:TH:236:VAL:HG23	2.15	0.47
45:TJ:345:ILE:HG13	44:TK:398:MET:SD	2.55	0.47
44:TK:93:ILE:CG2	44:TK:117:LEU:HD23	2.43	0.47
44:TK:248:LEU:HD12	45:TL:11:GLN:HE22	1.78	0.47
44:TM:89:PRO:CD	44:UM:280:LYS:HD2	2.42	0.47
44:TM:194:LEU:HB2	44:TM:198:THR:CG2	2.42	0.47
44:TM:216:ASN:HB3	44:TM:275:ILE:O	2.15	0.47
44:TM:242:LEU:HD11	44:TM:252:ILE:HD11	1.96	0.47
44:UA:194:LEU:HD12	44:UA:194:LEU:C	2.35	0.47
45:UB:61:PRO:HD2	45:UB:84:LEU:HB3	1.93	0.47
45:UB:278:SER:HA	45:UB:281:TYR:CD2	2.49	0.47
44:UE:101:ASN:HB3	44:UE:182:VAL:CG1	2.44	0.47
44:UI:377:MET:SD	44:UI:379:SER:HB3	2.55	0.47
45:UJ:72:THR:HG22	45:UJ:73:MET:HE2	1.95	0.47
45:UJ:139:LEU:CD2	45:UJ:188:SER:HB2	2.44	0.47
45:UL:163:ILE:HD12	45:UL:250:LEU:HB2	1.97	0.47
45:UL:377:MET:O	45:UL:380:ARG:HG2	2.14	0.47
44:UM:271:SER:HA	44:UM:302:MET:HE3	1.96	0.47
45:UN:134:GLN:O	45:UN:134:GLN:HG3	2.14	0.47
45:VB:309:ARG:HH12	45:VB:343:GLU:HG3	1.78	0.47
44:VC:242:LEU:HD11	44:VC:252:ILE:HD12	1.96	0.47
45:VD:86:ARG:HD2	45:VD:89:ASN:OD1	2.13	0.47
44:VE:362:VAL:O	44:VE:362:VAL:HG13	2.14	0.47
45:VF:73:MET:SD	45:VF:92:PHE:HB3	2.54	0.47
45:VF:311:LEU:O	45:VF:342:VAL:HG11	2.15	0.47
44:VG:12:GLY:O	44:VG:16:VAL:HG12	2.14	0.47
44:VG:133:GLN:CB	44:VG:252:ILE:HD12	2.38	0.47
44:VG:191:THR:HG21	44:VG:425:LEU:HD21	1.95	0.47
44:VG:212:ILE:CD1	44:VG:300:ASN:HA	2.44	0.47
44:VG:325:PRO:O	44:VG:328:VAL:HB	2.13	0.47
44:VI:203:MET:HB3	44:VI:303:ALA:HB2	1.95	0.47
44:VI:246:GLY:HA2	44:VI:357:TYR:CD2	2.49	0.47
45:VJ:68:LEU:HD23	45:VJ:97:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:215:LEU:HA	45:VJ:275:SER:HA	1.96	0.47
44:VK:240:ALA:HA	44:VK:243:ARG:HH12	1.77	0.47
44:VM:255:PHE:O	44:VM:259:LEU:N	2.47	0.47
44:VM:423:GLU:O	44:VM:426:ALA:HB3	2.14	0.47
45:VN:420:SER:CA	45:VN:423:GLN:HG3	2.41	0.47
45:WB:289:LEU:O	45:WB:293:MET:HB2	2.13	0.47
44:WC:172:TYR:HB3	44:WC:173:PRO:HD2	1.96	0.47
44:WC:352:LYS:HD3	45:WF:178:THR:CB	2.44	0.47
45:WD:135:ILE:HG13	45:WD:152:ILE:CD1	2.41	0.47
45:WD:378:PHE:O	45:WD:382:ALA:N	2.31	0.47
44:WE:183:GLU:HG2	44:WE:184:PRO:CD	2.44	0.47
44:WG:12:GLY:O	44:WG:16:VAL:HG13	2.14	0.47
44:WG:14:ILE:HD13	44:WG:74:VAL:CG2	2.44	0.47
44:WG:40:LYS:O	44:WG:41:THR:HA	2.14	0.47
44:WG:213:CYS:O	44:WG:217:LEU:N	2.48	0.47
45:WH:304:ASP:CG	45:WH:306:ARG:HG2	2.34	0.47
45:WJ:4:ILE:HG21	45:WJ:250:LEU:HD12	1.96	0.47
45:WJ:105:HIS:HA	45:WJ:147:MET:HE1	1.97	0.47
45:WJ:134:GLN:HG3	45:WJ:134:GLN:O	2.14	0.47
44:WM:67:PHE:C	44:WM:68:LEU:HD22	2.35	0.47
44:WM:119:LEU:HD21	44:WM:156:ARG:HD2	1.96	0.47
45:WN:295:ASP:CG	45:WN:297:LYS:HG2	2.35	0.47
45:WN:311:LEU:HD21	45:WN:372:THR:CG2	2.44	0.47
2:0A:73:ALA:O	44:AA:219:ILE:HG23	2.14	0.47
2:0A:124:LEU:HA	45:AB:279:GLN:HE22	1.79	0.47
6:0E:50:ILE:HG12	35:7R:382:TYR:HD1	1.79	0.47
19:1I:23:ILE:CB	45:ID:48:ASN:HD21	2.27	0.47
19:1I:216:PRO:HD2	44:LE:359:PRO:HG3	1.97	0.47
20:1J:160:PRO:CG	40:6F:131:ALA:HB1	2.44	0.47
21:1K:245:TRP:CD2	45:GB:280:GLN:HG2	2.49	0.47
31:2H:218:HIS:C	44:MC:84:ARG:HH22	2.17	0.47
24:2O:424:ALA:HA	44:VA:282:TYR:HE2	1.77	0.47
2:3A:125:LEU:H	45:AN:276:ARG:HH12	1.63	0.47
2:3A:141:GLN:HE22	44:AM:229:ARG:NH2	2.12	0.47
6:3E:47:GLU:CG	35:6R:380:ARG:NH2	2.78	0.47
15:3V:104:PHE:CD1	44:LA:417:GLU:HA	2.50	0.47
35:5R:12:LEU:CB	35:5R:15:HIS:HD2	2.25	0.47
35:5R:115:LYS:NZ	35:5R:132:PRO:HG2	2.30	0.47
35:5R:150:ILE:HG12	35:5R:174:PHE:CE1	2.49	0.47
40:6F:42:ASN:ND2	40:6F:59:ASN:HB2	2.29	0.47
40:6F:92:LYS:NZ	40:6F:96:GLU:HB3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6G:215:GLN:O	41:6G:218:GLU:N	2.45	0.47
41:6G:244:MET:HB3	45:VD:340:TYR:OH	2.14	0.47
41:6G:268:VAL:HG12	41:6G:269:GLY:N	2.28	0.47
11:6Q:107:ASN:HA	11:6Q:123:MET:CG	2.45	0.47
35:7R:311:LYS:HD2	35:7R:329:TYR:CD1	2.49	0.47
42:8N:36:UNK:O	42:8N:40:UNK:N	2.47	0.47
43:8R:154:UNK:CB	45:PJ:276:ARG:HH12	2.27	0.47
44:AA:34:GLY:O	44:AA:60:LYS:HA	2.14	0.47
45:AB:178:THR:HG21	45:AB:180:VAL:HG12	1.95	0.47
44:AC:3:GLU:CG	44:AC:129:CYS:HB3	2.44	0.47
45:AD:18:ALA:HB2	45:AD:76:VAL:CG2	2.39	0.47
45:AD:86:ARG:NH2	45:BD:281:TYR:HB2	2.29	0.47
45:AD:287:PRO:HB3	45:AD:329:GLN:NE2	2.30	0.47
44:AE:210:TYR:CD1	45:AF:324:LYS:HD2	2.50	0.47
45:AF:208:TYR:CZ	45:AF:225:LEU:HD11	2.49	0.47
44:AG:251:ASP:HB2	44:AG:254:GLU:CG	2.33	0.47
45:AH:189:VAL:HG21	45:AH:415:MET:HG3	1.97	0.47
44:AI:28:HIS:HD2	44:AI:49:PHE:HA	1.80	0.47
44:AI:87:PHE:HB3	44:AI:92:LEU:HD11	1.95	0.47
44:AK:104:ALA:HB2	44:AK:413:MET:HE2	1.96	0.47
44:AK:199:ASP:O	44:AK:200:VAL:HG23	2.13	0.47
45:AL:69:GLU:OE2	45:AL:72:THR:HB	2.13	0.47
45:AL:72:THR:HG23	45:AL:73:MET:N	2.30	0.47
45:AL:161:ASP:O	45:AL:162:ARG:NH2	2.48	0.47
45:AL:328:GLU:OE2	45:AL:329:GLN:HG2	2.14	0.47
44:AM:91:GLN:C	44:AM:93:ILE:HD12	2.35	0.47
44:AM:175:PRO:HG2	44:AM:304:LYS:HG3	1.96	0.47
44:AM:398:MET:CE	45:AN:346:PRO:HD2	2.45	0.47
44:BA:20:CYS:O	44:BA:24:PHE:CD2	2.67	0.47
44:BA:191:THR:HA	44:BA:194:LEU:CD2	2.45	0.47
44:BA:221:ARG:O	44:BA:221:ARG:HG3	2.15	0.47
45:BB:11:GLN:O	45:BB:15:GLN:HG2	2.15	0.47
45:BB:133:PHE:HB2	45:BB:164:MET:SD	2.55	0.47
45:BD:66:MET:CE	45:BD:116:VAL:HG21	2.39	0.47
45:BD:310:TYR:O	45:BD:342:VAL:HG22	2.13	0.47
44:BE:2:ARG:CG	44:BE:133:GLN:HG3	2.45	0.47
44:BE:169:PHE:HZ	44:BE:238:LEU:HD13	1.78	0.47
44:BE:423:GLU:O	44:BE:426:ALA:HB3	2.15	0.47
45:BF:304:ASP:OD1	45:BF:305:PRO:HD2	2.14	0.47
44:BG:5:ILE:HG22	44:BG:7:ILE:HD11	1.97	0.47
44:BG:99:ALA:HB3	46:BG:501:GTP:O2G	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BH:6:HIS:O	45:BH:63:ALA:HA	2.14	0.47
45:BJ:345:ILE:O	45:BJ:345:ILE:CG2	2.61	0.47
44:BK:98:ASP:OD1	44:BK:100:ALA:N	2.37	0.47
44:BK:228:ASN:HD21	46:BK:501:GTP:HN1	1.63	0.47
45:BL:245:GLN:C	45:BL:246:LEU:HD12	2.33	0.47
45:BL:367:PHE:CE2	45:BL:369:GLY:HA3	2.49	0.47
44:BM:51:THR:OG1	44:BM:243:ARG:HB3	2.15	0.47
45:BN:166:THR:CG2	45:BN:199:CYS:HA	2.44	0.47
45:BN:167:PHE:CE1	45:BN:233:MET:HE1	2.50	0.47
45:BN:309:ARG:HD3	45:BN:340:TYR:O	2.15	0.47
45:CB:199:CYS:HB3	45:CB:265:PHE:CD1	2.49	0.47
44:CC:11:GLN:HB2	44:CC:74:VAL:HG11	1.97	0.47
45:CD:164:MET:HE3	45:CD:196:ALA:HA	1.95	0.47
44:CE:344:VAL:HG22	44:CE:345:ASP:H	1.80	0.47
44:CE:372:MET:N	44:CE:372:MET:SD	2.87	0.47
44:CG:261:PRO:HA	45:CH:394:PHE:HD2	1.79	0.47
45:CH:237:THR:CG2	45:CH:241:ARG:HH21	2.25	0.47
44:CI:389:SER:HA	44:CI:429:GLU:OE2	2.14	0.47
45:CJ:86:ARG:HD2	45:DJ:281:TYR:CG	2.49	0.47
45:CJ:143:THR:HG23	45:CJ:144:GLY:N	2.30	0.47
44:CK:51:THR:O	44:CK:52:PHE:HD1	1.97	0.47
44:CK:135:PHE:C	44:CK:136:LEU:HD12	2.35	0.47
45:CL:311:LEU:HD11	45:CL:370:ASN:CB	2.44	0.47
44:CM:69:ASP:OD2	44:CM:74:VAL:HG21	2.15	0.47
44:CM:184:PRO:O	44:CM:187:SER:HB2	2.14	0.47
44:DA:326:LYS:HD3	45:DB:212:PHE:CZ	2.43	0.47
44:DC:20:CYS:HA	44:DC:232:ALA:CB	2.44	0.47
44:DC:24:PHE:CZ	44:DC:52:PHE:HE2	2.33	0.47
44:DC:326:LYS:HD3	45:DD:212:PHE:CZ	2.50	0.47
44:DC:334:THR:O	44:DC:337:THR:HB	2.14	0.47
44:DC:392:ASP:OD1	44:DC:422:ARG:NE	2.47	0.47
45:DF:22:GLU:CG	45:DF:81:PHE:HD2	2.26	0.47
44:DG:1:MET:CE	45:DH:94:GLN:HB3	2.45	0.47
44:DG:293:ASN:O	44:DG:297:GLU:HG3	2.14	0.47
45:DH:186:THR:HG21	45:DH:385:PHE:CE1	2.49	0.47
44:DI:184:PRO:O	44:DI:188:ILE:HG12	2.14	0.47
44:DI:310:GLY:HA3	44:DI:383:ALA:CA	2.44	0.47
44:DK:103:PHE:CD2	44:DK:189:LEU:HD13	2.49	0.47
44:DK:105:ARG:C	44:DK:110:ILE:HG12	2.34	0.47
44:DK:179:THR:HG21	46:DK:501:GTP:C5'	2.29	0.47
44:DK:344:VAL:HG21	44:DK:346:TRP:NE1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:304:ASP:OD1	45:DL:305:PRO:HD2	2.14	0.47
44:DM:60:LYS:NZ	44:DM:85:GLN:O	2.48	0.47
44:DM:169:PHE:C	44:DM:204:LEU:HD12	2.35	0.47
44:DM:204:LEU:HD21	44:DM:231:ILE:HD11	1.96	0.47
45:DN:146:GLY:HA2	45:DN:149:THR:CG2	2.45	0.47
44:EA:121:ARG:NH2	44:EA:124:LYS:HB3	2.29	0.47
44:EA:145:THR:O	44:EA:149:LEU:HD23	2.13	0.47
45:EB:325:GLU:O	45:EB:329:GLN:HG2	2.13	0.47
45:ED:31:ASP:CB	45:ED:32:PRO:HD2	2.44	0.47
45:ED:242:PHE:HB3	45:ED:356:ILE:HD13	1.95	0.47
44:EE:287:SER:H	44:EE:290:GLU:CG	2.27	0.47
44:EE:399:TYR:OH	44:EE:415:GLU:OE2	2.32	0.47
45:EF:170:VAL:HG11	45:EF:377:MET:CB	2.44	0.47
45:EF:393:ALA:O	45:EF:394:PHE:HB2	2.14	0.47
44:EI:22:GLU:O	44:EI:25:CYS:HB2	2.15	0.47
45:EJ:101:TRP:HE1	45:EJ:146:GLY:CA	2.28	0.47
44:EK:97:GLU:HG3	44:EK:98:ASP:N	2.30	0.47
45:EL:293:MET:HE2	45:EL:367:PHE:CB	2.44	0.47
45:EN:380:ARG:HA	45:EN:383:GLU:CB	2.41	0.47
45:EN:420:SER:HA	45:EN:423:GLN:CG	2.44	0.47
44:FA:221:ARG:HD3	45:FB:322:SER:CB	2.45	0.47
44:FA:387:VAL:CA	44:FA:390:ARG:HG2	2.40	0.47
45:FB:110:ALA:HA	45:FB:113:ILE:CG1	2.45	0.47
45:FB:258:ILE:O	45:FB:258:ILE:HG22	2.13	0.47
44:FC:205:ASP:CG	44:FC:304:LYS:H	2.17	0.47
44:FC:261:PRO:HG3	45:FF:394:PHE:CE1	2.49	0.47
44:FC:271:SER:HA	44:FC:302:MET:CE	2.44	0.47
44:FC:295:ALA:HB1	44:FC:377:MET:HG2	1.96	0.47
45:FD:20:PHE:CD1	45:FD:233:MET:HG3	2.49	0.47
44:FE:1:MET:HG2	44:FE:2:ARG:NH1	2.30	0.47
44:FE:156:ARG:O	44:FE:159:VAL:HG12	2.15	0.47
44:FE:417:GLU:O	44:FE:420:GLU:HG2	2.14	0.47
44:FG:36:MET:SD	44:FG:42:ILE:HD13	2.54	0.47
44:FG:183:GLU:HG2	44:FG:184:PRO:N	2.30	0.47
44:FG:270:SER:HB3	44:FG:378:ILE:CD1	2.42	0.47
44:FI:75:ILE:HG23	44:FI:92:LEU:HB3	1.96	0.47
44:FK:26:LEU:HD23	44:FK:363:VAL:CG2	2.38	0.47
44:FM:23:LEU:HD21	44:FM:236:SER:CB	2.44	0.47
44:FM:135:PHE:O	44:FM:166:LYS:HA	2.14	0.47
44:FM:171:ILE:HD12	46:FM:501:GTP:HN22	1.79	0.47
45:FN:136:THR:HG22	45:FN:167:PHE:CB	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:201:VAL:HG12	45:FN:202:ILE:N	2.29	0.47
44:GA:224:TYR:CE2	45:GB:323:THR:HG21	2.50	0.47
45:GB:193:VAL:HG22	45:GB:265:PHE:CE1	2.50	0.47
44:GC:339:ARG:HG3	44:GC:339:ARG:NH1	2.29	0.47
44:GE:56:THR:HG23	44:GE:58:ALA:H	1.78	0.47
44:GE:195:LEU:HD21	44:GE:264:ARG:NH2	2.29	0.47
45:GF:135:ILE:CG1	45:GF:152:ILE:HD11	2.38	0.47
45:GF:342:VAL:HG13	45:GF:345:ILE:CG2	2.30	0.47
45:GF:343:GLU:HA	45:GF:344:TRP:HA	1.61	0.47
44:GG:265:ILE:HD12	44:GG:432:TYR:CD1	2.49	0.47
44:GG:350:GLY:C	45:GJ:179:VAL:HG12	2.34	0.47
44:GG:404:PHE:HE1	45:GH:259:PRO:HA	1.76	0.47
45:GH:99:ASN:CA	45:GH:142:GLY:HA3	2.45	0.47
45:GH:109:GLY:O	45:GH:147:MET:HE2	2.14	0.47
45:GH:186:THR:HG21	45:GH:385:PHE:CE1	2.49	0.47
44:GI:268:MET:HG3	44:GI:378:ILE:HG22	1.96	0.47
44:GI:390:ARG:HD2	44:GI:394:LYS:HZ2	1.76	0.47
45:GJ:65:LEU:HD21	45:GJ:85:PHE:HE2	1.80	0.47
45:GJ:178:THR:N	45:GJ:181:GLU:OE2	2.37	0.47
45:GJ:246:LEU:HD23	45:GJ:246:LEU:O	2.14	0.47
44:GM:89:PRO:HB2	44:HM:280:LYS:NZ	2.30	0.47
44:GM:183:GLU:HG2	44:GM:184:PRO:CD	2.44	0.47
44:HA:4:VAL:HG11	44:HA:252:ILE:CD1	2.45	0.47
44:HA:292:THR:HG23	44:HA:293:ASN:N	2.29	0.47
45:HD:20:PHE:CZ	45:HD:24:ILE:HD11	2.49	0.47
44:HE:271:SER:OG	44:HE:301:MET:SD	2.70	0.47
44:HE:317:MET:HG3	44:HE:317:MET:O	2.14	0.47
45:HF:9:GLY:HA3	45:HF:66:MET:CE	2.44	0.47
44:HG:195:LEU:CD2	44:HG:264:ARG:HH21	2.27	0.47
44:HG:324:VAL:HG12	44:HG:326:LYS:H	1.80	0.47
44:HG:336:LYS:HE2	44:HG:351:PHE:CE1	2.49	0.47
44:HG:344:VAL:HG21	44:HG:346:TRP:CZ2	2.49	0.47
45:HH:113:ILE:HG13	45:HH:116:VAL:CG1	2.44	0.47
44:HI:312:TYR:HB2	44:HI:343:PHE:CD1	2.48	0.47
45:HJ:101:TRP:HE3	45:HJ:187:LEU:HD13	1.78	0.47
44:HK:170:THR:O	44:HK:204:LEU:HB2	2.14	0.47
45:HL:182:PRO:HB3	45:HL:384:GLN:HB3	1.96	0.47
45:HL:186:THR:HG22	45:HL:381:VAL:CG1	2.40	0.47
44:HM:292:THR:O	44:HM:295:ALA:N	2.48	0.47
45:HN:190:HIS:CE1	45:HN:414:ASN:HD22	2.31	0.47
45:HN:254:ALA:HA	45:HN:258:ILE:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:115:VAL:HG23	44:IA:153:LEU:HD21	1.96	0.47
44:IC:42:ILE:HG13	44:IC:42:ILE:O	2.14	0.47
44:IC:438:GLU:OE2	44:IC:439:THR:N	2.37	0.47
45:ID:8:GLN:NE2	45:ID:17:GLY:H	2.13	0.47
45:IF:107:THR:CG2	45:IF:108:GLU:N	2.77	0.47
44:IG:404:PHE:CE1	45:IH:259:PRO:HA	2.49	0.47
45:IH:211:CYS:SG	45:IH:220:PRO:HG3	2.55	0.47
44:II:172:TYR:HB3	44:II:173:PRO:CD	2.41	0.47
45:IJ:309:ARG:HG2	45:IJ:340:TYR:C	2.34	0.47
44:IK:201:ALA:HB3	44:IK:267:PHE:HD1	1.73	0.47
44:IK:221:ARG:HH22	45:IL:286:VAL:HG23	1.79	0.47
45:IL:174:LYS:HB2	45:IL:205:GLU:CD	2.35	0.47
45:IL:193:VAL:HA	45:IL:264:HIS:CE1	2.49	0.47
44:IM:72:PRO:HD2	45:IN:2:ARG:NH1	2.29	0.47
44:IM:328:VAL:O	44:IM:332:ILE:HG12	2.14	0.47
44:JA:99:ALA:HB3	46:JA:501:GTP:O2G	2.14	0.47
45:JB:58:ARG:HG2	45:KB:280:GLN:NE2	2.30	0.47
44:JC:26:LEU:HD11	44:JC:364:PRO:HD3	1.96	0.47
44:JC:69:ASP:OD1	44:JC:70:LEU:N	2.48	0.47
44:JG:73:THR:HG21	45:JH:247:ASN:CG	2.35	0.47
44:JG:217:LEU:HD11	44:JG:367:ASP:O	2.14	0.47
44:JG:429:GLU:OE1	44:JG:430:LYS:HE2	2.15	0.47
45:JH:363:MET:SD	45:JH:364:ALA:N	2.88	0.47
45:JH:378:PHE:HB3	45:JH:415:MET:HE1	1.96	0.47
44:JI:73:THR:HA	45:JJ:46:ARG:HH22	1.78	0.47
45:JJ:86:ARG:HD3	45:KJ:281:TYR:O	2.14	0.47
45:JJ:201:VAL:O	45:JJ:202:ILE:HD13	2.14	0.47
45:JJ:216:LYS:C	45:JJ:217:LEU:HD22	2.34	0.47
44:JK:15:GLN:HB3	44:JK:228:ASN:ND2	2.29	0.47
44:JK:173:PRO:HB3	44:JK:183:GLU:CD	2.34	0.47
45:JL:217:LEU:HD11	45:JL:220:PRO:CB	2.32	0.47
44:JM:239:THR:HG23	44:JM:242:LEU:CD1	2.44	0.47
44:JM:269:LEU:HD12	44:JM:301:MET:CE	2.42	0.47
44:KA:173:PRO:HB3	44:KA:183:GLU:CD	2.34	0.47
44:KA:320:ARG:HG2	44:KA:374:ALA:HB3	1.95	0.47
45:KB:34:GLY:CA	45:KB:58:ARG:HB2	2.38	0.47
44:KC:230:LEU:HD21	44:KC:368:LEU:HD21	1.96	0.47
44:KC:238:LEU:HG	44:KC:255:PHE:HE2	1.80	0.47
45:KD:10:GLY:HA2	45:KD:67:ASP:OD1	2.14	0.47
44:KE:88:HIS:CD2	44:LE:283:HIS:HB2	2.48	0.47
44:KE:275:ILE:HD12	44:KE:368:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:154:LYS:HE2	45:KF:154:LYS:HA	1.97	0.47
45:KH:321:MET:HB3	45:KH:363:MET:HE1	1.96	0.47
44:KI:31:GLN:HB2	44:KI:35:GLN:O	2.15	0.47
45:KJ:143:THR:HG22	48:KJ:502:GDP:O2B	2.15	0.47
45:KJ:396:HIS:O	45:KJ:399:THR:HG22	2.15	0.47
44:KK:56:THR:O	44:LK:285:GLN:HB3	2.14	0.47
44:KM:19:ALA:HB1	44:KM:229:ARG:HD3	1.97	0.47
44:KM:102:ASN:ND2	44:KM:411:GLU:HG3	2.30	0.47
44:KM:108:TYR:O	44:KM:112:LYS:NZ	2.35	0.47
44:KM:172:TYR:HB3	44:KM:173:PRO:CD	2.41	0.47
44:KM:435:VAL:HG22	44:KM:435:VAL:O	2.15	0.47
44:LA:44:GLY:HA2	44:LA:245:ASP:OD2	2.14	0.47
44:LA:262:TYR:OH	45:LD:393:ALA:HB2	2.14	0.47
44:LA:274:PRO:HG2	44:LA:286:LEU:CD1	2.44	0.47
45:LB:86:ARG:HG3	45:LB:87:PRO:HD2	1.96	0.47
45:LD:47:ILE:HD13	45:LD:59:TYR:CZ	2.50	0.47
45:LF:122:LYS:HE2	45:MF:291:GLN:CB	2.44	0.47
44:LI:406:HIS:NE2	45:LJ:261:PRO:HD3	2.29	0.47
45:LJ:130:LEU:HD21	45:LJ:133:PHE:CE1	2.50	0.47
45:LJ:314:SER:HA	45:LJ:350:LYS:HB3	1.95	0.47
44:LK:417:GLU:OE1	44:LK:417:GLU:N	2.47	0.47
44:LM:103:PHE:O	44:LM:107:HIS:N	2.48	0.47
44:MA:66:VAL:HB	44:MA:91:GLN:HE21	1.79	0.47
44:MA:216:ASN:CB	44:MA:275:ILE:HG23	2.45	0.47
45:MD:117:LEU:CD2	45:MD:154:LYS:HD2	2.41	0.47
45:MF:30:ILE:HG21	45:MF:84:LEU:HD21	1.96	0.47
44:MG:228:ASN:OD1	44:MG:229:ARG:N	2.47	0.47
44:MG:244:PHE:CZ	44:MG:358:GLN:HG2	2.50	0.47
44:MG:363:VAL:HG23	44:MG:364:PRO:HD2	1.96	0.47
45:MH:182:PRO:O	45:MH:186:THR:HG22	2.14	0.47
45:MH:255:VAL:HG12	45:MH:255:VAL:O	2.13	0.47
44:MI:155:GLU:HA	44:MI:197:HIS:CE1	2.49	0.47
45:MJ:135:ILE:HG13	45:MJ:152:ILE:HD11	1.95	0.47
45:MJ:318:ARG:NH1	45:MJ:358:PRO:HG3	2.29	0.47
45:MJ:325:GLU:OE2	45:MJ:329:GLN:HG3	2.14	0.47
44:MK:199:ASP:O	44:MK:266:HIS:HB2	2.14	0.47
44:MM:64:ARG:NH1	44:MM:128:ASN:OD1	2.42	0.47
45:MN:97:ALA:C	45:MN:103:LYS:HD2	2.35	0.47
45:MN:231:ALA:HB1	45:MN:270:PHE:CE1	2.48	0.47
45:NB:7:ILE:CG1	45:NB:66:MET:HE3	2.45	0.47
44:NC:258:ASN:HB3	45:NF:179:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:104:ALA:HA	44:NG:413:MET:HE1	1.96	0.47
44:NG:118:CYS:SG	44:NG:153:LEU:HD21	2.55	0.47
44:NG:289:ALA:CA	44:NG:292:THR:HG22	2.44	0.47
45:NH:66:MET:HE1	45:NH:147:MET:HG3	1.96	0.47
45:NH:318:ARG:NH1	45:NH:358:PRO:CD	2.78	0.47
45:NH:345:ILE:CG2	45:NH:348:ASN:HB3	2.42	0.47
45:NJ:345:ILE:HG23	45:NJ:348:ASN:HB3	1.96	0.47
44:NK:101:ASN:CA	44:NK:144:GLY:HA3	2.44	0.47
44:NK:199:ASP:OD1	44:NK:200:VAL:HG13	2.13	0.47
45:NL:148:GLY:O	45:NL:151:LEU:HB3	2.15	0.47
45:NL:207:LEU:HD13	45:NL:225:LEU:HG	1.96	0.47
45:NL:221:THR:HG22	45:NL:224:ASP:CG	2.33	0.47
44:OA:371:VAL:HG12	44:OA:373:ARG:H	1.80	0.47
45:OB:3:GLU:HB2	45:OB:49:VAL:O	2.14	0.47
45:OB:184:ASN:OD1	45:OB:185:ALA:N	2.48	0.47
44:OC:11:GLN:HE22	44:OC:74:VAL:HG13	1.79	0.47
44:OC:67:PHE:C	44:OC:68:LEU:HD12	2.34	0.47
44:OC:88:HIS:HB3	44:OC:91:GLN:CD	2.35	0.47
44:OC:265:ILE:HG21	44:OC:313:MET:SD	2.54	0.47
45:OD:16:ILE:HD12	45:OD:16:ILE:H	1.80	0.47
45:OD:282:ARG:HH12	45:OD:284:LEU:HD23	1.79	0.47
45:OD:313:ALA:HA	45:OD:369:GLY:CA	2.35	0.47
45:OD:398:TYR:HB3	45:OD:403:MET:CB	2.44	0.47
44:OE:375:VAL:CG1	44:OE:377:MET:HE3	2.44	0.47
45:OF:32:PRO:CD	45:OF:81:PHE:HE1	2.27	0.47
45:OF:217:LEU:CD2	45:OF:220:PRO:HG3	2.44	0.47
44:OG:181:VAL:HG21	45:OH:256:ASN:OD1	2.14	0.47
45:OH:108:GLU:OE1	45:OH:108:GLU:N	2.48	0.47
45:OH:164:MET:CE	45:OH:164:MET:HA	2.45	0.47
44:OI:68:LEU:CD1	44:OI:118:CYS:HB2	2.24	0.47
44:OI:178:SER:C	45:OJ:347:ASN:HD21	2.17	0.47
44:OI:349:THR:OG1	45:OL:176:SER:OG	2.24	0.47
45:OJ:81:PHE:HB3	45:OJ:84:LEU:HD12	1.96	0.47
45:OJ:108:GLU:O	45:OJ:112:LEU:N	2.46	0.47
44:OK:219:ILE:HD11	44:OK:367:ASP:OD2	2.15	0.47
44:OM:3:GLU:HG3	44:OM:129:CYS:HB3	1.96	0.47
44:OM:185:TYR:HE2	44:OM:404:PHE:HB2	1.80	0.47
45:ON:3:GLU:HB2	45:ON:49:VAL:O	2.15	0.47
45:ON:105:HIS:CD2	45:ON:150:LEU:HB2	2.49	0.47
44:PC:9:VAL:HG21	44:PC:153:LEU:HD12	1.96	0.47
44:PC:344:VAL:HG22	44:PC:345:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PC:346:TRP:O	44:PC:346:TRP:HE3	1.97	0.47
45:PD:52:ASN:HB2	45:PD:62:ARG:HE	1.79	0.47
44:PE:141:VAL:HG21	44:PE:190:SER:OG	2.14	0.47
45:PF:86:ARG:HD2	45:QD:281:TYR:CD2	2.50	0.47
45:PF:163:ILE:HD11	45:PF:250:LEU:CB	2.45	0.47
45:PF:245:GLN:O	45:PF:246:LEU:HD22	2.14	0.47
44:PG:167:LEU:O	44:PG:167:LEU:HD12	2.14	0.47
45:PJ:16:ILE:HD13	45:PJ:226:ASN:OD1	2.15	0.47
45:PJ:68:LEU:HD23	45:PJ:97:ALA:HB2	1.96	0.47
45:PJ:260:PHE:HB3	45:PJ:261:PRO:CD	2.40	0.47
45:PJ:383:GLU:O	45:PJ:387:ALA:N	2.38	0.47
44:PK:96:LYS:HD3	45:PL:1:MET:HE1	1.96	0.47
45:PL:133:PHE:O	45:PL:165:GLU:N	2.43	0.47
45:PL:287:PRO:HA	45:PL:290:THR:HG22	1.96	0.47
44:PM:8:HIS:HB2	44:PM:67:PHE:CD1	2.50	0.47
45:PN:148:GLY:O	45:PN:152:ILE:HG12	2.14	0.47
45:PN:164:MET:CA	45:PN:197:ASP:HB2	2.44	0.47
44:QA:88:HIS:HA	44:RA:280:LYS:NZ	2.30	0.47
45:QB:36:TYR:CZ	45:QB:44:LEU:HG	2.49	0.47
45:QB:216:LYS:O	45:QB:216:LYS:HG3	2.14	0.47
45:QB:258:ILE:HB	44:QC:407:TRP:HZ2	1.76	0.47
45:QB:311:LEU:O	45:QB:345:ILE:HG21	2.14	0.47
45:QB:330:MET:O	45:QB:333:VAL:HB	2.14	0.47
44:QC:182:VAL:HG23	44:QC:185:TYR:CD2	2.50	0.47
44:QC:317:MET:SD	44:QC:375:VAL:CG2	3.02	0.47
45:QF:139:LEU:HG	45:QF:188:SER:HB2	1.96	0.47
44:QG:15:GLN:O	44:QG:18:ASN:HB3	2.13	0.47
44:QG:19:ALA:HB2	44:QG:228:ASN:HB3	1.97	0.47
44:QG:112:LYS:O	44:QG:115:VAL:HG12	2.15	0.47
44:QG:205:ASP:CG	44:QG:303:ALA:HA	2.34	0.47
44:QI:223:THR:HG23	44:QI:225:THR:OG1	2.15	0.47
45:QJ:61:PRO:HD2	45:QJ:84:LEU:O	2.14	0.47
45:QJ:256:ASN:C	45:QJ:257:LEU:HD12	2.35	0.47
45:QJ:304:ASP:HB3	45:QJ:307:HIS:ND1	2.29	0.47
44:QK:183:GLU:HG2	44:QK:184:PRO:N	2.29	0.47
44:QK:210:TYR:HH	44:QK:224:TYR:HE1	1.62	0.47
45:QL:170:VAL:HG23	45:QL:170:VAL:O	2.14	0.47
44:QM:278:ALA:CB	44:QM:369:ALA:HB2	2.45	0.47
45:QN:113:ILE:HD13	45:QN:150:LEU:CD2	2.27	0.47
45:QN:140:GLY:N	45:QN:171:PRO:HD3	2.30	0.47
44:RA:213:CYS:O	44:RA:218:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:68:LEU:HB2	45:RB:143:THR:OG1	2.14	0.47
44:RC:273:ALA:HB3	44:RC:375:VAL:CG1	2.45	0.47
45:RD:4:ILE:CG1	45:RD:50:TYR:HE1	2.27	0.47
45:RD:119:VAL:HA	45:RD:122:LYS:CG	2.40	0.47
45:RD:164:MET:HB2	45:RD:197:ASP:CG	2.35	0.47
45:RD:288:GLU:O	45:RD:291:GLN:HG3	2.14	0.47
44:RE:238:LEU:O	44:RE:238:LEU:HD23	2.15	0.47
44:RE:278:ALA:HB1	44:RE:282:TYR:CE2	2.49	0.47
44:RG:195:LEU:HD12	44:RG:266:HIS:NE2	2.30	0.47
44:RG:286:LEU:HD22	44:RG:291:ILE:HA	1.96	0.47
45:RH:29:GLY:HA3	45:RH:43:GLN:NE2	2.29	0.47
45:RH:256:ASN:HD21	44:RI:180:ALA:CB	2.28	0.47
44:RI:8:HIS:NE2	44:RI:138:PHE:HD2	2.12	0.47
45:RJ:183:TYR:HE1	45:RJ:388:MET:CB	2.27	0.47
44:RK:212:ILE:HD12	44:RK:300:ASN:OD1	2.15	0.47
44:RM:188:ILE:CD1	44:RM:391:LEU:HD23	2.45	0.47
44:RM:194:LEU:HB2	44:RM:198:THR:OG1	2.14	0.47
44:RM:223:THR:CG2	44:RM:225:THR:HG23	2.44	0.47
44:SA:67:PHE:C	44:SA:68:LEU:HD12	2.35	0.47
44:SA:323:VAL:CB	44:SA:373:ARG:HH21	2.25	0.47
44:SA:329:ASN:HB3	45:SB:175:VAL:CG1	2.44	0.47
45:SB:237:THR:HG23	45:SB:250:LEU:HD21	1.96	0.47
45:SB:260:PHE:HB3	45:SB:261:PRO:CD	2.37	0.47
44:SC:156:ARG:O	44:SC:160:ASP:N	2.43	0.47
44:SC:352:LYS:HD3	44:SC:352:LYS:HA	1.73	0.47
45:SD:265:PHE:HB2	45:SD:374:ILE:CD1	2.44	0.47
45:SF:4:ILE:HB	45:SF:132:GLY:O	2.15	0.47
44:SG:354:GLY:O	44:SG:355:ILE:HD13	2.14	0.47
44:SG:395:PHE:HA	44:SG:398:MET:HE3	1.95	0.47
45:SH:49:VAL:HG11	45:SH:241:ARG:CG	2.44	0.47
44:SI:70:LEU:HD13	44:SI:110:ILE:CD1	2.45	0.47
44:SI:99:ALA:O	44:SI:105:ARG:NH2	2.46	0.47
44:SK:34:GLY:O	44:SK:60:LYS:HA	2.15	0.47
44:SK:276:ILE:CD1	44:SK:284:GLU:HG2	2.45	0.47
44:SM:124:LYS:O	44:SM:128:ASN:N	2.47	0.47
45:SN:72:THR:HG23	45:SN:73:MET:HG3	1.96	0.47
45:SN:116:VAL:CA	45:SN:119:VAL:HG12	2.41	0.47
44:TA:136:LEU:HD22	44:TA:169:PHE:HE2	1.80	0.47
45:TB:386:THR:O	45:TB:390:ARG:HG2	2.14	0.47
44:TC:70:LEU:HD13	44:TC:110:ILE:HD12	1.96	0.47
45:TD:164:MET:N	45:TD:197:ASP:HB2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:263:LEU:HG	45:TD:422:TYR:CE1	2.49	0.47
45:TF:68:LEU:HB2	45:TF:147:MET:HE3	1.96	0.47
45:TF:255:VAL:HG21	44:TG:100:ALA:O	2.14	0.47
44:TG:203:MET:HE1	44:TG:268:MET:C	2.34	0.47
45:TH:12:CYS:HB2	48:TH:501:GDP:C1'	2.44	0.47
45:TH:262:ARG:HD3	45:TH:263:LEU:HD12	1.95	0.47
44:TI:123:ARG:O	44:TI:126:ALA:HB3	2.15	0.47
44:TI:387:VAL:HG23	44:TI:388:PHE:N	2.29	0.47
44:TI:423:GLU:HA	44:TI:426:ALA:CB	2.45	0.47
45:TJ:113:ILE:HA	45:TJ:116:VAL:CG1	2.43	0.47
44:TK:35:GLN:OE1	44:TK:60:LYS:HB3	2.14	0.47
45:TL:235:GLY:O	45:TL:316:LEU:HD22	2.15	0.47
45:TL:258:ILE:HG13	45:TL:266:PHE:CZ	2.49	0.47
45:TL:350:LYS:CD	44:TM:179:THR:HG22	2.44	0.47
44:TM:233:GLN:O	44:TM:237:SER:N	2.42	0.47
44:TM:262:TYR:HB3	44:TM:263:PRO:HD2	1.96	0.47
45:TN:311:LEU:HD11	45:TN:372:THR:OG1	2.15	0.47
44:UA:84:ARG:HB3	44:UA:85:GLN:NE2	2.30	0.47
44:UA:141:VAL:HG13	44:UA:173:PRO:HD3	1.96	0.47
44:UA:262:TYR:OH	45:UB:391:ARG:O	2.33	0.47
44:UA:273:ALA:HB1	44:UA:274:PRO:HA	1.96	0.47
44:UA:289:ALA:CA	44:UA:292:THR:HG22	2.44	0.47
45:UB:289:LEU:O	45:UB:293:MET:HG2	2.13	0.47
45:UB:291:GLN:HA	45:UB:291:GLN:OE1	2.15	0.47
44:UC:3:GLU:CD	44:UC:131:GLY:H	2.17	0.47
44:UC:98:ASP:OD1	44:UC:99:ALA:N	2.48	0.47
44:UC:230:LEU:HD21	44:UC:368:LEU:CD2	2.40	0.47
44:UC:273:ALA:O	44:UC:375:VAL:HG12	2.14	0.47
44:UC:324:VAL:HG13	44:UC:325:PRO:HD2	1.96	0.47
45:UD:375:GLN:HE22	45:UD:423:GLN:CA	2.27	0.47
44:UE:128:ASN:HD21	44:VC:285:GLN:HE21	1.60	0.47
45:UF:42:LEU:CD2	45:UF:356:ILE:HD11	2.45	0.47
45:UF:274:THR:O	45:UF:274:THR:HG23	2.15	0.47
44:UG:242:LEU:CD2	44:UG:252:ILE:HG12	2.24	0.47
44:UG:258:ASN:CG	45:UH:179:VAL:HG22	2.35	0.47
44:UG:326:LYS:HD3	45:UH:212:PHE:HZ	1.79	0.47
45:UH:97:ALA:HB3	45:UH:143:THR:HB	1.96	0.47
45:UJ:66:MET:HG2	45:UJ:66:MET:O	2.14	0.47
45:UJ:116:VAL:HG22	45:UJ:120:VAL:HG23	1.95	0.47
45:UL:210:ILE:O	45:UL:214:THR:N	2.35	0.47
45:UL:321:MET:HE1	45:UL:326:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:346:PRO:HG3	44:UM:394:LYS:HG2	1.97	0.47
44:UM:205:ASP:CG	44:UM:304:LYS:H	2.18	0.47
45:UN:102:ALA:HA	45:UN:106:TYR:CD2	2.49	0.47
45:VB:267:MET:SD	45:VB:301:CYS:HB2	2.54	0.47
45:VB:299:MET:CE	45:VB:305:PRO:HB3	2.45	0.47
44:VC:107:HIS:CE1	44:VC:152:LEU:HD13	2.50	0.47
44:VC:269:LEU:C	44:VC:378:ILE:HD12	2.35	0.47
44:VC:276:ILE:HG23	44:VC:281:ALA:HB2	1.95	0.47
45:VD:20:PHE:CD1	45:VD:233:MET:HG2	2.49	0.47
44:VG:330:ALA:O	44:VG:334:THR:N	2.29	0.47
45:VH:26:ASP:CB	45:VH:359:LYS:HE2	2.44	0.47
45:VH:411:ALA:O	45:VH:414:ASN:N	2.47	0.47
44:VI:278:ALA:CA	44:VI:369:ALA:HB2	2.44	0.47
45:VJ:113:ILE:O	45:VJ:116:VAL:HG12	2.15	0.47
45:VJ:184:ASN:HA	45:VJ:187:LEU:HB2	1.97	0.47
44:VK:71:GLU:CD	44:VK:73:THR:H	2.17	0.47
44:VK:93:ILE:HG12	44:VK:117:LEU:HB3	1.95	0.47
44:VK:174:SER:HB2	44:VK:177:VAL:CB	2.37	0.47
45:VL:360:GLY:O	45:VL:362:LYS:NZ	2.48	0.47
45:VL:399:THR:HA	45:VL:403:MET:O	2.15	0.47
44:VM:219:ILE:CB	44:VM:222:PRO:HG3	2.43	0.47
45:VN:150:LEU:O	45:VN:150:LEU:HD23	2.15	0.47
45:VN:316:LEU:O	45:VN:365:VAL:HA	2.15	0.47
46:WA:501:GTP:H5 <sup>γ</sup>	45:WB:246:LEU:CD2	2.45	0.47
45:WB:324:LYS:HD2	45:WB:325:GLU:N	2.30	0.47
44:WC:254:GLU:HG2	45:WF:98:GLY:HA2	1.96	0.47
45:WD:99:ASN:O	45:WD:180:VAL:HG21	2.14	0.47
45:WD:305:PRO:HB3	45:WD:310:TYR:OH	2.15	0.47
44:WE:2:ARG:HD2	44:WE:242:LEU:CD2	2.44	0.47
45:WF:215:LEU:HD21	45:WF:273:LEU:HB3	1.95	0.47
44:WG:334:THR:HA	44:WG:337:THR:OG1	2.14	0.47
45:WH:377:MET:O	45:WH:380:ARG:HG2	2.14	0.47
44:WI:326:LYS:HB2	45:WL:212:PHE:CZ	2.40	0.47
44:WK:254:GLU:HG2	45:WN:98:GLY:HA2	1.95	0.47
44:WM:335:ILE:HA	44:WM:338:LYS:HG3	1.97	0.47
44:WM:387:VAL:HG23	44:WM:388:PHE:N	2.29	0.47
45:WN:5:VAL:O	45:WN:134:GLN:HG2	2.14	0.47
45:WN:210:ILE:HG13	45:WN:214:THR:OG1	2.14	0.47
45:WN:269:GLY:O	45:WN:366:THR:HA	2.14	0.47
1:6H:255:TYR:CE1	45:FF:39:ASP:HB2	2.43	0.47
6:0E:121:ARG:O	35:7R:579:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:OX:2:LYS:HD3	45:MD:74:ASP:HB3	1.95	0.47
19:1I:11:TYR:HA	45:ID:53:GLU:CB	2.44	0.47
19:1I:220:TRP:CG	44:LE:357:TYR:CE2	3.03	0.47
20:1J:274:ASN:CG	45:IL:217:LEU:HD11	2.35	0.47
21:1K:49:GLU:OE1	45:KF:216:LYS:HD3	2.14	0.47
22:1L:179:THR:HG21	44:CI:365:GLY:O	2.15	0.47
24:1O:152:CYS:C	44:UE:370:LYS:HZ3	2.17	0.47
26:1R:97:ARG:HG2	44:AC:42:ILE:HD11	1.97	0.47
26:1R:298:TYR:O	45:CD:78:ALA:HA	2.15	0.47
13:1T:87:PHE:HZ	44:MC:414:GLU:OE1	1.97	0.47
15:1V:146:PRO:HD2	44:LK:414:GLU:OE2	2.10	0.47
27:1W:65:GLY:HA3	45:LH:224:ASP:CG	2.35	0.47
27:1W:235:THR:CB	45:LB:280:GLN:HE21	2.18	0.47
2:2A:91:ASN:HB3	45:MJ:37:HIS:NE2	2.29	0.47
17:2B:237:LYS:CD	44:JK:84:ARG:HH22	2.20	0.47
5:2D:169:THR:OG1	44:EK:84:ARG:NH2	2.47	0.47
29:2F:48:ILE:HG21	44:GC:362:VAL:CG1	2.37	0.47
31:2H:205:GLN:NE2	44:AC:81:GLY:HA3	2.29	0.47
23:2M:278:GLU:HG3	45:IJ:37:HIS:HD2	1.80	0.47
26:2R:152:LEU:HA	45:AJ:78:ALA:O	2.14	0.47
14:2U:236:LEU:HB3	45:WJ:33:THR:CG2	2.44	0.47
27:2W:208:LEU:HG	44:LM:372:MET:HG3	1.97	0.47
17:3B:225:GLY:O	45:JH:53:GLU:HG3	2.14	0.47
26:3R:390:ASP:OD1	45:EL:218:THR:HG22	2.14	0.47
12:3S:20:ASN:CB	45:WN:77:ARG:HH12	2.18	0.47
34:4F:147:HIS:HB3	45:IN:80:PRO:HD3	1.95	0.47
31:4H:167:LYS:HE2	44:MI:44:GLY:HA3	1.96	0.47
35:4R:27:LYS:HD3	44:LC:245:ASP:HB3	1.96	0.47
35:4R:105:GLU:OE2	45:BH:358:PRO:HD2	2.15	0.47
37:5B:70:MET:HE3	45:NF:37:HIS:HB2	1.96	0.47
37:5D:89:TYR:CE1	44:NM:369:ALA:HB1	2.49	0.47
37:5D:108:ARG:HA	44:NM:281:ALA:CB	2.38	0.47
38:5F:127:PRO:HA	44:OE:372:MET:HE1	1.97	0.47
38:5F:147:GLN:HG3	38:5F:148:GLN:N	2.29	0.47
38:5G:157:ARG:NH1	45:NL:37:HIS:HA	2.30	0.47
38:5H:44:ARG:HH21	38:5H:45:PRO:HG2	1.79	0.47
38:5H:75:PHE:O	38:5H:78:LEU:HB3	2.14	0.47
11:5Q:40:GLN:HG2	11:5Q:41:ASP:N	2.30	0.47
35:5R:58:ARG:C	35:5R:59:MET:HG3	2.35	0.47
35:5R:72:ALA:HB1	35:5R:73:PRO:HD2	1.97	0.47
35:5R:396:ASP:OD1	35:5R:409:PRO:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:430:LEU:HD13	35:5R:503:PHE:CE1	2.46	0.47
35:5R:567:ASN:OD1	35:5R:568:ASP:N	2.46	0.47
40:6F:89:GLN:HB3	40:6F:90:GLU:OE1	2.15	0.47
41:6G:138:LYS:NZ	44:VG:308:ARG:HA	2.29	0.47
41:6G:203:LYS:HE2	41:6G:205:LEU:HD11	1.96	0.47
11:6Q:33:HIS:N	11:6Q:50:MET:O	2.33	0.47
11:6Q:40:GLN:HG2	11:6Q:41:ASP:N	2.29	0.47
11:6Q:50:MET:HE3	11:6Q:83:LEU:HD11	1.96	0.47
11:6Q:68:THR:CG2	11:6Q:152:LEU:HA	2.45	0.47
35:6R:145:ILE:HG21	35:6R:150:ILE:HD11	1.96	0.47
35:6R:268:GLU:CB	45:DN:280:GLN:CD	2.72	0.47
35:7R:251:ASN:HA	35:7R:254:LYS:NZ	2.30	0.47
35:7R:285:THR:O	35:7R:307:LYS:N	2.40	0.47
35:7R:355:TYR:O	35:7R:358:GLU:HG2	2.15	0.47
35:7R:568:ASP:O	35:7R:571:VAL:HG22	2.15	0.47
42:8L:361:UNK:HA	42:8L:364:UNK:CB	2.45	0.47
42:8N:52:UNK:O	42:8N:55:UNK:N	2.48	0.47
43:8P:13:UNK:HA	44:QM:370:LYS:NZ	2.30	0.47
43:8R:344:UNK:O	43:8R:348:UNK:N	2.48	0.47
45:AB:67:ASP:OD1	45:AB:68:LEU:N	2.47	0.47
45:AB:325:GLU:CA	45:AB:328:GLU:HG2	2.44	0.47
44:AC:8:HIS:NE2	44:AC:17:GLY:HA3	2.30	0.47
44:AC:181:VAL:CG1	45:AD:256:ASN:HB3	2.45	0.47
44:AC:237:SER:HA	44:AC:320:ARG:CZ	2.44	0.47
45:AD:86:ARG:NH2	45:BD:278:SER:OG	2.47	0.47
45:AD:137:HIS:O	45:AD:168:SER:HA	2.15	0.47
45:AD:288:GLU:O	45:AD:291:GLN:HG3	2.15	0.47
44:AE:22:GLU:O	44:AE:26:LEU:HD23	2.14	0.47
44:AE:224:TYR:HB3	46:AE:501:GTP:O6	2.15	0.47
45:AF:60:VAL:CB	45:AF:86:ARG:HH11	2.27	0.47
45:AF:65:LEU:HD23	45:AF:76:VAL:HG11	1.97	0.47
45:AF:318:ARG:C	45:AF:318:ARG:HD2	2.35	0.47
44:AG:273:ALA:HB1	44:AG:274:PRO:HA	1.97	0.47
44:AG:294:SER:HA	44:AG:297:GLU:CG	2.45	0.47
44:AG:413:MET:SD	44:AG:417:GLU:HG2	2.55	0.47
45:AH:281:TYR:HE2	45:MH:87:PRO:HD3	1.80	0.47
44:AI:239:THR:CG2	44:AI:243:ARG:HH21	2.28	0.47
44:AI:250:VAL:O	44:AI:250:VAL:HG23	2.15	0.47
45:AJ:49:VAL:HG21	45:AJ:241:ARG:HG2	1.96	0.47
45:AJ:66:MET:HE2	45:AJ:147:MET:HG2	1.96	0.47
44:AK:181:VAL:HG12	45:AL:347:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:250:VAL:HG12	44:AK:255:PHE:CE1	2.50	0.47
44:AK:296:PHE:CD2	44:AK:335:ILE:HG12	2.50	0.47
45:AL:172:SER:HB2	45:AL:173:PRO:HD3	1.97	0.47
45:AL:192:LEU:HD12	45:AL:196:ALA:HB2	1.96	0.47
45:AL:238:CYS:HB3	45:AL:318:ARG:HH22	1.80	0.47
45:AL:294:PHE:CD2	45:AL:333:VAL:HG21	2.49	0.47
44:AM:233:GLN:OE1	44:AM:233:GLN:HA	2.15	0.47
45:AN:281:TYR:CG	45:MN:86:ARG:CD	2.91	0.47
44:BA:229:ARG:NH1	44:BA:229:ARG:CB	2.77	0.47
44:BA:242:LEU:HD11	44:BA:252:ILE:CD1	2.45	0.47
44:BA:326:LYS:HZ2	45:BD:219:THR:CB	2.25	0.47
45:BB:226:ASN:ND2	48:BB:501:GDP:HN1	2.12	0.47
44:BC:135:PHE:HE1	44:BC:157:LEU:HD22	1.80	0.47
44:BC:229:ARG:HH12	44:BC:363:VAL:HG21	1.80	0.47
45:BD:44:LEU:CD2	45:BD:47:ILE:HD12	2.45	0.47
45:BD:55:THR:OG1	45:CB:282:ARG:O	2.16	0.47
45:BD:211:CYS:SG	45:BD:215:LEU:HD12	2.55	0.47
44:BE:100:ALA:HB1	45:BF:255:VAL:HG21	1.97	0.47
44:BE:151:SER:HB2	44:BE:193:SER:OG	2.15	0.47
44:BE:260:VAL:O	44:BE:260:VAL:HG23	2.13	0.47
45:BF:287:PRO:HG3	45:BF:329:GLN:HE22	1.79	0.47
44:BG:276:ILE:CD1	44:BG:280:LYS:HG3	2.43	0.47
45:BH:207:LEU:HB3	45:BH:225:LEU:HD21	1.96	0.47
45:BH:268:ILE:CG2	45:BH:368:VAL:HG12	2.44	0.47
45:BH:318:ARG:HE	45:BH:357:PRO:HB2	1.80	0.47
44:BI:2:ARG:HD2	44:BI:242:LEU:O	2.15	0.47
44:BI:67:PHE:HB2	44:BI:92:LEU:HG	1.96	0.47
44:BI:186:ASN:OD1	44:BI:187:SER:N	2.47	0.47
45:BJ:169:VAL:HG13	45:BJ:202:ILE:O	2.14	0.47
45:BJ:248:SER:CA	45:BJ:252:LYS:HD2	2.43	0.47
44:BK:28:HIS:NE2	44:BK:243:ARG:HD2	2.30	0.47
44:BK:183:GLU:HG2	44:BK:184:PRO:HD3	1.97	0.47
44:BK:405:VAL:O	44:BK:409:VAL:HG13	2.15	0.47
44:BK:417:GLU:O	44:BK:420:GLU:HG2	2.15	0.47
45:BL:186:THR:O	45:BL:189:VAL:HG12	2.15	0.47
44:BM:13:GLY:HA2	44:BM:16:VAL:HG12	1.96	0.47
44:BM:236:SER:O	44:BM:240:ALA:HB2	2.14	0.47
44:BM:402:ARG:HA	44:BM:405:VAL:HG21	1.97	0.47
45:BN:342:VAL:CG1	45:BN:345:ILE:HG22	2.38	0.47
44:CA:88:HIS:HA	44:DA:280:LYS:NZ	2.27	0.47
45:CB:61:PRO:HD2	45:CB:84:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:186:THR:O	45:CB:415:MET:HE3	2.14	0.47
44:CC:11:GLN:OE1	44:CC:11:GLN:N	2.39	0.47
44:CC:104:ALA:HA	44:CC:413:MET:CE	2.45	0.47
44:CC:261:PRO:HG2	44:CC:346:TRP:HH2	1.80	0.47
44:CC:363:VAL:HG23	44:CC:364:PRO:HD2	1.97	0.47
45:CD:58:ARG:NH1	45:DD:281:TYR:HE1	2.12	0.47
45:CD:102:ALA:HB1	45:CD:401:GLU:HB2	1.96	0.47
45:CD:302:ALA:HB3	45:CD:377:MET:HE1	1.97	0.47
45:CF:2:ARG:CZ	45:CF:240:LEU:HD11	2.44	0.47
44:CG:23:LEU:HD21	44:CG:233:GLN:OE1	2.14	0.47
44:CG:118:CYS:O	44:CG:122:ILE:HG12	2.14	0.47
44:CG:212:ILE:CD1	44:CG:300:ASN:HA	2.44	0.47
45:CH:20:PHE:CE1	45:CH:233:MET:HG2	2.50	0.47
45:CH:192:LEU:CD1	45:CH:196:ALA:HB2	2.44	0.47
45:CH:213:ARG:HD2	45:CH:214:THR:N	2.30	0.47
45:CH:256:ASN:HB3	44:CI:181:VAL:CG1	2.38	0.47
44:CI:134:GLY:CA	44:CI:164:LYS:HE3	2.34	0.47
44:CI:172:TYR:HB3	44:CI:173:PRO:CD	2.44	0.47
44:CI:238:LEU:HD21	44:CI:252:ILE:CD1	2.45	0.47
44:CI:238:LEU:HD21	44:CI:252:ILE:HD13	1.97	0.47
45:CJ:100:ASN:HD22	45:CJ:397:TRP:HE3	1.60	0.47
45:CJ:229:VAL:O	45:CJ:233:MET:HG3	2.14	0.47
44:CK:2:ARG:HB2	44:CK:133:GLN:OE1	2.15	0.47
44:CK:99:ALA:HB2	44:CK:145:THR:HB	1.96	0.47
44:CK:433:GLU:O	44:CK:437:ILE:HG23	2.14	0.47
45:CL:83:GLN:HA	45:CL:83:GLN:OE1	2.15	0.47
45:CL:267:MET:SD	45:CL:374:ILE:HG22	2.54	0.47
45:CL:407:GLU:O	45:CL:411:ALA:N	2.27	0.47
44:CM:75:ILE:HD12	44:CM:75:ILE:H	1.79	0.47
44:CM:141:VAL:HA	44:CM:147:SER:HB3	1.97	0.47
44:CM:437:ILE:O	44:CM:437:ILE:HG13	2.14	0.47
45:CN:113:ILE:HA	45:CN:116:VAL:HG12	1.96	0.47
45:CN:116:VAL:CA	45:CN:119:VAL:HG12	2.41	0.47
45:CN:182:PRO:HG2	45:CN:388:MET:CE	2.44	0.47
45:CN:269:GLY:N	45:CN:367:PHE:O	2.48	0.47
45:CN:379:LYS:O	45:CN:383:GLU:N	2.28	0.47
44:DA:8:HIS:HB2	44:DA:67:PHE:HD1	1.80	0.47
44:DA:77:GLU:O	44:DA:80:THR:OG1	2.32	0.47
44:DA:141:VAL:HG21	44:DA:172:TYR:HE1	1.80	0.47
44:DA:157:LEU:HB3	44:DA:166:LYS:CD	2.44	0.47
45:DB:271:ALA:HB1	45:DB:272:PRO:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:299:MET:HA	45:DB:299:MET:CE	2.44	0.47
45:DB:310:TYR:O	45:DB:348:ASN:ND2	2.48	0.47
44:DC:214:ARG:HH12	44:DC:220:GLU:HA	1.77	0.47
44:DC:344:VAL:HG22	44:DC:345:ASP:H	1.79	0.47
44:DC:408:TYR:HB3	44:DC:413:MET:HE2	1.96	0.47
45:DD:65:LEU:HD21	45:DD:85:PHE:CD2	2.50	0.47
45:DD:187:LEU:HD23	45:DD:411:ALA:CB	2.45	0.47
45:DD:293:MET:SD	45:DD:365:VAL:HG11	2.55	0.47
45:DD:320:ARG:HG3	45:DD:320:ARG:O	2.15	0.47
45:DD:324:LYS:NZ	44:DE:210:TYR:HB3	2.30	0.47
44:DE:9:VAL:CG1	44:DE:139:ASN:HB3	2.44	0.47
44:DE:263:PRO:HD3	45:DF:396:HIS:ND1	2.29	0.47
45:DF:151:LEU:O	45:DF:155:VAL:HG23	2.14	0.47
45:DF:192:LEU:HG	45:DF:196:ALA:HB2	1.96	0.47
45:DF:234:SER:O	45:DF:238:CYS:HB3	2.14	0.47
45:DF:256:ASN:HD22	45:DF:350:LYS:HD2	1.80	0.47
45:DF:267:MET:HE1	45:DF:374:ILE:HB	1.95	0.47
44:DG:8:HIS:CD2	44:DG:138:PHE:HB2	2.42	0.47
44:DG:328:VAL:O	44:DG:332:ILE:HG12	2.15	0.47
45:DH:5:VAL:HG22	45:DH:133:PHE:CD1	2.49	0.47
45:DH:60:VAL:HG13	45:DH:60:VAL:O	2.14	0.47
44:DI:172:TYR:HB3	44:DI:173:PRO:CD	2.42	0.47
45:DJ:5:VAL:HG12	45:DJ:62:ARG:HD3	1.96	0.47
45:DJ:149:THR:HG21	45:DJ:188:SER:HB2	1.97	0.47
45:DJ:152:ILE:HA	45:DJ:155:VAL:HG22	1.97	0.47
45:DJ:204:ASN:HD22	48:DJ:501:GDP:HN22	1.61	0.47
45:DJ:265:PHE:HB2	45:DJ:374:ILE:CD1	2.45	0.47
45:DJ:343:GLU:OE2	45:DJ:430:ALA:N	2.33	0.47
44:DK:175:PRO:CG	44:DK:304:LYS:HD2	2.45	0.47
44:DK:205:ASP:OD2	44:DK:304:LYS:HG3	2.14	0.47
44:DK:352:LYS:HE3	45:DL:178:THR:HA	1.96	0.47
45:DL:162:ARG:NE	45:DL:162:ARG:HA	2.29	0.47
45:DL:221:THR:HG22	45:DL:224:ASP:CG	2.34	0.47
45:DL:286:VAL:HB	45:DL:287:PRO:HD3	1.97	0.47
44:DM:8:HIS:CD2	44:DM:138:PHE:HB2	2.49	0.47
44:DM:115:VAL:HG12	44:DM:119:LEU:HD23	1.97	0.47
45:DN:58:ARG:HD3	45:EN:281:TYR:CE1	2.50	0.47
45:DN:80:PRO:O	45:DN:81:PHE:HB2	2.14	0.47
45:DN:175:VAL:HG23	45:DN:175:VAL:O	2.14	0.47
45:DN:217:LEU:HD11	45:DN:220:PRO:CA	2.44	0.47
45:DN:333:VAL:O	45:DN:336:LYS:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:5:ILE:HG22	44:EA:7:ILE:HD11	1.96	0.47
44:EA:202:VAL:HG13	44:EA:268:MET:O	2.15	0.47
44:EA:302:MET:HA	44:EA:302:MET:HE1	1.96	0.47
44:EA:314:ALA:HB1	44:EA:352:LYS:HZ1	1.80	0.47
45:EB:106:TYR:HD2	45:EB:403:MET:HE3	1.80	0.47
45:EB:315:ALA:N	45:EB:350:LYS:O	2.47	0.47
44:EC:20:CYS:HA	44:EC:232:ALA:HB1	1.97	0.47
44:EC:56:THR:O	44:FA:285:GLN:HA	2.15	0.47
44:EC:97:GLU:HG2	44:EC:105:ARG:NH2	2.30	0.47
44:EC:107:HIS:HB3	44:EC:108:TYR:CD2	2.49	0.47
44:EC:272:TYR:HD2	44:EC:275:ILE:CG1	2.28	0.47
44:EC:422:ARG:O	44:EC:425:LEU:HB2	2.13	0.47
45:ED:209:ASP:OD1	45:ED:213:ARG:HD3	2.15	0.47
45:ED:345:ILE:O	45:ED:345:ILE:HG23	2.15	0.47
44:EE:36:MET:HB2	44:EE:37:PRO:HD2	1.95	0.47
44:EE:188:ILE:HA	44:EE:191:THR:OG1	2.14	0.47
44:EE:217:LEU:HD13	44:EE:367:ASP:OD2	2.15	0.47
44:EE:284:GLU:HG3	44:EE:286:LEU:CD2	2.42	0.47
45:EF:18:ALA:HB2	45:EF:76:VAL:HG21	1.96	0.47
45:EF:163:ILE:HG13	45:EF:163:ILE:O	2.14	0.47
44:EG:63:PRO:CG	44:EG:86:LEU:HG	2.39	0.47
44:EG:203:MET:HA	44:EG:203:MET:HE3	1.96	0.47
45:EH:66:MET:SD	45:EH:116:VAL:HG21	2.54	0.47
45:EH:163:ILE:CD1	45:EH:250:LEU:HB2	2.44	0.47
45:EH:204:ASN:HA	45:EH:207:LEU:HD12	1.97	0.47
44:EI:16:VAL:N	44:EI:228:ASN:HD21	2.12	0.47
44:EI:126:ALA:HB1	44:EI:132:LEU:HD11	1.96	0.47
45:EJ:18:ALA:HB2	45:EJ:76:VAL:CG2	2.45	0.47
45:EJ:179:VAL:O	45:EJ:182:PRO:HD2	2.15	0.47
45:EJ:323:THR:O	45:EJ:326:VAL:N	2.48	0.47
45:EJ:325:GLU:HG2	45:EJ:328:GLU:OE2	2.15	0.47
44:EK:99:ALA:HB3	44:EK:145:THR:HB	1.97	0.47
44:EK:311:LYS:N	44:EK:382:THR:OG1	2.36	0.47
45:EL:73:MET:HA	45:EL:73:MET:HE2	1.96	0.47
45:EL:113:ILE:O	45:EL:116:VAL:HG12	2.15	0.47
45:EL:257:LEU:CD1	45:EL:312:THR:HG23	2.44	0.47
45:EL:265:PHE:HE2	45:EL:418:LEU:HD21	1.80	0.47
45:EL:285:THR:OG1	45:EL:287:PRO:HD2	2.13	0.47
45:EL:312:THR:HG22	45:EL:370:ASN:HB3	1.95	0.47
44:EM:24:PHE:HZ	44:EM:235:ILE:HG22	1.79	0.47
44:EM:141:VAL:CG1	44:EM:172:TYR:HA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:279:GLU:O	44:EM:280:LYS:HD2	2.15	0.47
45:EN:47:ILE:HD13	45:EN:59:TYR:CE2	2.50	0.47
45:EN:73:MET:CE	45:EN:92:PHE:HB3	2.45	0.47
45:EN:107:THR:CG2	45:EN:401:GLU:HB3	2.45	0.47
45:EN:173:PRO:HB3	45:EN:384:GLN:NE2	2.30	0.47
45:EN:178:THR:HG21	45:EN:180:VAL:HG12	1.95	0.47
45:EN:210:ILE:HG23	45:EN:214:THR:CG2	2.44	0.47
44:FA:21:TRP:CE3	44:FA:24:PHE:HD2	2.33	0.47
44:FA:122:ILE:O	44:FA:125:LEU:N	2.48	0.47
44:FA:238:LEU:HA	44:FA:318:MET:SD	2.54	0.47
44:FA:370:LYS:HG3	44:FA:370:LYS:O	2.15	0.47
45:FB:256:ASN:ND2	45:FB:350:LYS:HD2	2.21	0.47
45:FB:386:THR:HG23	45:FB:387:ALA:N	2.29	0.47
44:FC:4:VAL:HG21	44:FC:136:LEU:HD13	1.96	0.47
44:FC:198:THR:HG22	44:FC:199:ASP:N	2.29	0.47
44:FC:206:ASN:HA	44:FC:209:ILE:CD1	2.45	0.47
44:FC:238:LEU:HG	44:FC:255:PHE:CE2	2.49	0.47
45:FD:1:MET:C	45:FD:2:ARG:HG2	2.33	0.47
45:FD:64:ILE:HG12	45:FD:119:VAL:HG22	1.96	0.47
44:FE:112:LYS:HA	44:FE:112:LYS:HE2	1.97	0.47
44:FE:157:LEU:O	44:FE:160:ASP:HB2	2.14	0.47
44:FE:176:GLN:HG2	44:FE:177:VAL:N	2.29	0.47
44:FE:185:TYR:CE1	44:FE:398:MET:HE2	2.50	0.47
44:FG:7:ILE:HG21	44:FG:153:LEU:HD13	1.96	0.47
44:FG:63:PRO:HG2	44:FG:87:PHE:CE1	2.50	0.47
45:FH:32:PRO:O	45:FH:33:THR:HB	2.14	0.47
45:FH:392:LYS:HG3	45:FH:395:LEU:CD2	2.44	0.47
44:FI:11:GLN:HG3	44:FI:74:VAL:HG11	1.97	0.47
44:FI:63:PRO:CG	44:FI:87:PHE:HA	2.45	0.47
44:FI:181:VAL:HG22	45:FJ:256:ASN:OD1	2.15	0.47
44:FI:188:ILE:CG1	44:FI:425:LEU:HD12	2.44	0.47
45:FJ:135:ILE:HG12	45:FJ:164:MET:HE3	1.96	0.47
44:FK:221:ARG:NH1	45:FL:325:GLU:H	2.13	0.47
45:FL:7:ILE:HD13	45:FL:64:ILE:HB	1.96	0.47
45:FL:222:TYR:HD1	45:FL:225:LEU:HD12	1.79	0.47
44:FM:287:SER:O	44:FM:290:GLU:HG2	2.14	0.47
45:FN:105:HIS:HD2	45:FN:146:GLY:CA	2.28	0.47
45:FN:262:ARG:C	45:FN:263:LEU:HD12	2.34	0.47
45:FN:286:VAL:HG21	45:FN:325:GLU:HG2	1.97	0.47
45:FN:317:PHE:CD1	45:FN:365:VAL:HG22	2.50	0.47
44:GA:105:ARG:HH12	45:GB:251:ARG:HD3	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:188:ILE:HD12	44:GA:425:LEU:HD11	1.97	0.47
44:GA:258:ASN:CG	45:GD:179:VAL:HG22	2.35	0.47
44:GA:311:LYS:NZ	44:GA:342:GLN:O	2.46	0.47
45:GB:186:THR:O	45:GB:190:HIS:HB2	2.14	0.47
45:GB:260:PHE:HB2	45:GB:263:LEU:HD13	1.95	0.47
45:GB:337:ASN:HB2	45:GB:341:PHE:CE2	2.49	0.47
44:GC:33:ASP:HB3	44:GC:35:GLN:HE22	1.79	0.47
44:GC:254:GLU:HG2	45:GF:98:GLY:CA	2.20	0.47
45:GD:44:LEU:HD23	45:GD:47:ILE:HG21	1.95	0.47
45:GD:73:MET:HB3	45:GD:90:PHE:HE1	1.77	0.47
45:GD:310:TYR:HA	45:GD:371:SER:CA	2.44	0.47
44:GE:24:PHE:CE1	44:GE:236:SER:HB2	2.37	0.47
44:GE:137:VAL:O	44:GE:168:GLY:HA2	2.15	0.47
44:GE:386:GLU:O	44:GE:390:ARG:HG2	2.15	0.47
45:GF:19:LYS:HB2	45:GF:226:ASN:HB3	1.96	0.47
45:GF:42:LEU:HD13	45:GF:45:GLU:CD	2.35	0.47
45:GF:118:ASP:HA	45:GF:121:ARG:HH11	1.79	0.47
45:GF:130:LEU:HB3	45:GF:162:ARG:HD2	1.96	0.47
45:GF:328:GLU:HG3	45:GF:329:GLN:N	2.29	0.47
44:GG:103:PHE:HD1	44:GG:147:SER:HB2	1.78	0.47
44:GG:175:PRO:HB2	44:GG:176:GLN:NE2	2.29	0.47
44:GG:195:LEU:HG	44:GG:195:LEU:O	2.15	0.47
45:GH:200:MET:CB	45:GH:266:PHE:HB2	2.38	0.47
45:GH:238:CYS:SG	45:GH:239:CYS:N	2.87	0.47
44:GI:90:GLU:O	44:GI:121:ARG:NH2	2.47	0.47
44:GI:223:THR:O	44:GI:227:LEU:HD23	2.13	0.47
44:GI:223:THR:HG22	44:GI:224:TYR:N	2.30	0.47
45:GJ:42:LEU:HA	45:GJ:45:GLU:CG	2.40	0.47
45:GJ:87:PRO:CG	45:HJ:278:SER:HB2	2.44	0.47
45:GJ:145:SER:O	45:GJ:149:THR:HG22	2.14	0.47
45:GJ:334:GLN:HA	45:GJ:341:PHE:HD2	1.77	0.47
44:GK:97:GLU:CG	44:GK:105:ARG:HH22	2.28	0.47
44:GK:168:GLY:O	44:GK:201:ALA:HA	2.15	0.47
44:GK:206:ASN:OD1	44:GK:207:GLU:N	2.47	0.47
44:GK:276:ILE:HG23	44:GK:281:ALA:HB1	1.96	0.47
44:GK:393:HIS:O	44:GK:397:LEU:HG	2.15	0.47
44:GM:135:PHE:HB2	44:GM:166:LYS:CD	2.44	0.47
44:GM:217:LEU:CA	44:GM:277:SER:HB3	2.38	0.47
45:GN:3:GLU:CB	45:GN:49:VAL:HA	2.43	0.47
45:GN:49:VAL:HG11	45:GN:241:ARG:HG2	1.96	0.47
45:GN:245:GLN:C	45:GN:246:LEU:HD12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:316:LEU:O	45:GN:366:THR:N	2.46	0.47
44:HA:81:GLY:O	44:HA:84:ARG:HG2	2.15	0.47
44:HA:115:VAL:HG23	44:HA:153:LEU:HD21	1.96	0.47
44:HA:210:TYR:CG	45:HB:324:LYS:HD2	2.50	0.47
44:HA:249:ASN:OD1	44:HA:249:ASN:C	2.53	0.47
44:HA:325:PRO:CG	45:HD:222:TYR:HE1	2.26	0.47
45:HB:330:MET:SD	45:HB:349:ILE:HD12	2.55	0.47
44:HC:258:ASN:ND2	44:HC:352:LYS:HD3	2.28	0.47
44:HC:344:VAL:HG21	44:HC:346:TRP:NE1	2.29	0.47
45:HD:178:THR:CB	45:HD:181:GLU:HG3	2.27	0.47
44:HE:326:LYS:HA	44:HE:326:LYS:HE3	1.97	0.47
45:HF:281:TYR:OH	45:HF:281:TYR:HA	2.15	0.47
45:HF:305:PRO:HA	45:HF:373:ALA:HB2	1.95	0.47
45:HH:68:LEU:HD13	45:HH:147:MET:HE1	1.95	0.47
45:HH:89:ASN:O	45:HH:91:VAL:HG13	2.15	0.47
45:HH:395:LEU:O	45:HH:399:THR:HG23	2.14	0.47
44:HI:48:ALA:HB1	44:HI:243:ARG:O	2.14	0.47
44:HK:156:ARG:HG3	44:HK:160:ASP:OD2	2.15	0.47
44:HK:237:SER:HB3	44:HK:376:CYS:SG	2.55	0.47
45:HL:182:PRO:HG2	45:HL:388:MET:HE1	1.96	0.47
45:HL:199:CYS:HB3	45:HL:264:HIS:O	2.15	0.47
45:HL:310:TYR:HA	45:HL:371:SER:CB	2.45	0.47
44:HM:5:ILE:HB	44:HM:135:PHE:CD1	2.50	0.47
44:HM:6:SER:CB	44:HM:136:LEU:HB2	2.45	0.47
44:HM:141:VAL:HG22	44:HM:190:SER:OG	2.14	0.47
44:HM:188:ILE:HD12	44:HM:425:LEU:HD12	1.95	0.47
45:HN:86:ARG:HB3	45:HN:89:ASN:OD1	2.15	0.47
45:HN:113:ILE:HD13	45:HN:154:LYS:CD	2.45	0.47
45:HN:127:CYS:SG	45:HN:130:LEU:HD13	2.54	0.47
45:HN:173:PRO:HG2	45:HN:380:ARG:NH1	2.29	0.47
45:HN:311:LEU:N	45:HN:370:ASN:O	2.47	0.47
45:HN:341:PHE:HD1	45:HN:348:ASN:ND2	2.13	0.47
45:HN:382:ALA:HA	45:HN:385:PHE:HB2	1.97	0.47
44:IA:13:GLY:O	44:IA:16:VAL:HG12	2.14	0.47
44:IA:174:SER:HB3	44:IA:207:GLU:HB2	1.96	0.47
44:IA:191:THR:CG2	44:IA:425:LEU:HD21	2.44	0.47
45:IB:19:LYS:O	45:IB:23:VAL:N	2.40	0.47
45:IB:205:GLU:HA	45:IB:208:TYR:HB2	1.97	0.47
45:IB:253:LEU:O	45:IB:257:LEU:HD23	2.14	0.47
45:IB:330:MET:HG3	45:IB:351:SER:OG	2.15	0.47
44:IC:119:LEU:HD11	44:IC:156:ARG:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IC:355:ILE:HD12	44:IC:355:ILE:N	2.30	0.47
45:ID:101:TRP:HB3	45:ID:398:TYR:HE1	1.79	0.47
45:ID:122:LYS:HE3	45:ID:123:GLU:HG2	1.97	0.47
44:IE:194:LEU:HD12	44:IE:195:LEU:N	2.29	0.47
44:IE:220:GLU:N	44:IE:220:GLU:OE1	2.48	0.47
44:IE:311:LYS:HB2	44:IE:344:VAL:HG22	1.96	0.47
45:IF:284:LEU:HD23	45:IF:284:LEU:HA	1.73	0.47
44:IG:51:THR:HG22	44:IG:52:PHE:CD1	2.50	0.47
44:IG:56:THR:HG23	44:IG:58:ALA:H	1.80	0.47
44:IG:145:THR:HG23	44:IG:146:GLY:N	2.29	0.47
45:IH:7:ILE:HG23	45:IH:135:ILE:HD12	1.96	0.47
45:IH:299:MET:HE1	45:IH:305:PRO:CG	2.45	0.47
45:IJ:164:MET:CE	45:IJ:196:ALA:HA	2.45	0.47
44:IK:14:ILE:HD13	44:IK:69:ASP:OD2	2.15	0.47
44:IK:35:GLN:OE1	44:IK:60:LYS:HB3	2.15	0.47
45:IL:3:GLU:OE1	45:IL:3:GLU:N	2.45	0.47
45:IL:170:VAL:HG12	45:IL:201:VAL:HB	1.96	0.47
45:IL:299:MET:HE1	45:IL:305:PRO:HG3	1.96	0.47
44:IM:188:ILE:CG2	44:IM:425:LEU:HD21	2.31	0.47
44:IM:288:VAL:HG21	44:IM:323:VAL:HG21	1.95	0.47
44:IM:407:TRP:HZ3	45:IN:255:VAL:CG2	2.28	0.47
45:IN:86:ARG:HE	45:IN:87:PRO:HD2	1.80	0.47
44:JA:123:ARG:HH12	44:JA:160:ASP:HB3	1.80	0.47
45:JB:136:THR:CB	45:JB:167:PHE:HB2	2.44	0.47
45:JB:317:PHE:CD1	45:JB:365:VAL:HG21	2.50	0.47
44:JC:89:PRO:HG2	44:KC:280:LYS:HA	1.96	0.47
44:JC:188:ILE:HD12	44:JC:188:ILE:H	1.80	0.47
44:JC:264:ARG:HD2	44:JC:431:ASP:OD2	2.14	0.47
45:JD:143:THR:HG22	48:JD:501:GDP:O1B	2.15	0.47
44:JE:54:SER:HB3	44:JE:64:ARG:NH2	2.30	0.47
44:JE:121:ARG:HH12	44:JE:124:LYS:HD3	1.79	0.47
44:JE:181:VAL:O	44:JE:181:VAL:HG22	2.14	0.47
44:JE:186:ASN:OD1	44:JE:187:SER:N	2.47	0.47
44:JE:187:SER:OG	44:JE:391:LEU:HD11	2.14	0.47
44:JE:259:LEU:HD13	44:JE:314:ALA:HB1	1.96	0.47
44:JE:260:VAL:HG22	45:JH:397:TRP:HZ2	1.80	0.47
44:JE:261:PRO:HA	45:JH:394:PHE:CE1	2.49	0.47
44:JE:291:ILE:HG13	44:JE:292:THR:N	2.30	0.47
45:JF:75:SER:O	45:JF:78:ALA:HB3	2.14	0.47
44:JG:23:LEU:HD12	44:JG:363:VAL:HG23	1.95	0.47
44:JG:176:GLN:O	45:JH:331:LEU:HD21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:200:VAL:HG13	44:JG:268:MET:HE3	1.96	0.47
44:JG:210:TYR:CE1	45:JH:324:LYS:HB2	2.48	0.47
44:JG:266:HIS:ND1	44:JG:266:HIS:O	2.47	0.47
44:JG:288:VAL:N	44:JG:373:ARG:HH21	2.12	0.47
44:JG:344:VAL:HG22	44:JG:345:ASP:H	1.79	0.47
45:JH:18:ALA:HB2	45:JH:76:VAL:HG23	1.96	0.47
45:JH:265:PHE:CE2	45:JH:418:LEU:HD11	2.49	0.47
45:JH:285:THR:O	45:JH:289:LEU:HG	2.15	0.47
45:JH:296:ALA:CB	45:JH:306:ARG:HH21	2.27	0.47
44:JI:46:ASP:OD1	44:JI:46:ASP:N	2.45	0.47
44:JI:119:LEU:CD2	44:JI:156:ARG:HD3	2.45	0.47
44:JI:301:MET:CE	44:JI:307:PRO:HG2	2.44	0.47
45:JJ:163:ILE:HG13	45:JJ:164:MET:N	2.30	0.47
45:JJ:314:SER:HB3	45:JJ:350:LYS:HB3	1.95	0.47
44:JK:103:PHE:HB2	44:JK:186:ASN:OD1	2.14	0.47
44:JK:396:ASP:OD1	44:JK:422:ARG:NH1	2.47	0.47
45:JL:134:GLN:O	45:JL:134:GLN:HG3	2.14	0.47
45:JL:286:VAL:N	45:JL:287:PRO:CD	2.78	0.47
44:JM:2:ARG:HB2	44:JM:133:GLN:CG	2.45	0.47
44:JM:88:HIS:CG	44:JM:89:PRO:HD2	2.50	0.47
45:JN:259:PRO:CD	45:JN:370:ASN:HD22	2.27	0.47
44:KA:176:GLN:HG2	44:KA:177:VAL:H	1.80	0.47
44:KA:344:VAL:HG11	44:KA:346:TRP:CZ2	2.49	0.47
45:KB:207:LEU:HD22	45:KB:228:LEU:HD23	1.97	0.47
44:KC:1:MET:SD	45:KF:70:PRO:HG2	2.54	0.47
44:KC:14:ILE:CD1	44:KC:69:ASP:HB2	2.37	0.47
44:KC:209:ILE:CG2	44:KC:227:LEU:HD13	2.44	0.47
44:KC:284:GLU:CD	44:KC:285:GLN:H	2.18	0.47
45:KD:102:ALA:HB2	45:KD:398:TYR:HD2	1.79	0.47
45:KD:318:ARG:NH2	45:KD:358:PRO:HG3	2.29	0.47
45:KD:368:VAL:O	45:KD:368:VAL:HG13	2.15	0.47
44:KE:66:VAL:HG12	44:KE:92:LEU:CD1	2.45	0.47
44:KE:88:HIS:HB3	44:KE:91:GLN:HB3	1.97	0.47
44:KE:98:ASP:O	44:KE:105:ARG:NH1	2.47	0.47
44:KE:271:SER:HB2	44:KE:377:MET:HG2	1.96	0.47
44:KE:437:ILE:HG22	44:KE:438:GLU:N	2.30	0.47
45:KF:235:GLY:HA3	45:KF:366:THR:HG21	1.97	0.47
44:KG:56:THR:HG23	44:KG:58:ALA:N	2.25	0.47
44:KG:88:HIS:HB3	44:KG:91:GLN:CG	2.42	0.47
44:KG:317:MET:HG2	44:KG:377:MET:SD	2.55	0.47
44:KG:317:MET:HE3	44:KG:377:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:217:LEU:HD11	44:KI:367:ASP:O	2.14	0.47
44:KI:268:MET:HB2	44:KI:379:SER:C	2.35	0.47
45:KJ:146:GLY:O	45:KJ:149:THR:HG22	2.15	0.47
45:KJ:177:ASP:HB2	48:KJ:502:GDP:O3'	2.15	0.47
45:KJ:282:ARG:HG3	45:KJ:283:ALA:N	2.30	0.47
45:KJ:396:HIS:C	45:KJ:399:THR:HG22	2.35	0.47
44:KK:123:ARG:NH2	44:LK:338:LYS:CE	2.78	0.47
44:KK:347:CYS:SG	44:KK:350:GLY:N	2.88	0.47
45:KL:193:VAL:HG23	45:KL:264:HIS:NE2	2.29	0.47
44:KM:105:ARG:HG3	44:KM:411:GLU:HG3	1.95	0.47
44:KM:195:LEU:HD12	44:KM:267:PHE:HE2	1.78	0.47
45:KN:19:LYS:HA	45:KN:22:GLU:HB3	1.96	0.47
45:KN:54:ALA:HB1	45:LN:281:TYR:O	2.14	0.47
45:KN:171:PRO:HG2	45:KN:181:GLU:OE2	2.15	0.47
44:LA:50:ASN:HA	44:LA:53:PHE:O	2.15	0.47
44:LA:154:LEU:HD23	44:LA:157:LEU:CD1	2.33	0.47
44:LA:167:LEU:HD23	44:LA:200:VAL:HB	1.95	0.47
44:LA:268:MET:HB3	44:LA:380:ASN:HB2	1.95	0.47
44:LA:323:VAL:HG23	44:LA:323:VAL:O	2.15	0.47
45:LB:63:ALA:O	45:LB:89:ASN:ND2	2.47	0.47
45:LB:134:GLN:HG3	45:LB:134:GLN:O	2.15	0.47
45:LB:149:THR:HA	45:LB:152:ILE:HB	1.96	0.47
45:LB:170:VAL:CG2	45:LB:377:MET:HE3	2.40	0.47
45:LB:210:ILE:CD1	45:LB:300:MET:HG2	2.45	0.47
45:LB:235:GLY:HA2	45:LB:318:ARG:NH1	2.26	0.47
45:LB:257:LEU:CD2	45:LB:368:VAL:HG12	2.45	0.47
45:LB:295:ASP:OD1	45:LB:296:ALA:N	2.47	0.47
45:LB:404:ASP:CG	45:LB:406:MET:HG3	2.35	0.47
44:LC:132:LEU:HD23	44:LC:164:LYS:NZ	2.29	0.47
44:LC:407:TRP:HE1	45:LD:258:ILE:HB	1.79	0.47
45:LD:36:TYR:CE1	45:LD:44:LEU:HG	2.49	0.47
45:LD:54:ALA:HA	45:MD:283:ALA:HB2	1.96	0.47
45:LD:61:PRO:CD	45:LD:84:LEU:HB3	2.44	0.47
45:LD:104:GLY:O	45:LD:147:MET:HB2	2.14	0.47
45:LD:305:PRO:HA	45:LD:373:ALA:HB2	1.95	0.47
44:LE:204:LEU:HD22	44:LE:302:MET:HG3	1.96	0.47
44:LE:217:LEU:HD12	44:LE:217:LEU:N	2.30	0.47
44:LE:263:PRO:HD3	45:LH:396:HIS:CG	2.50	0.47
44:LE:376:CYS:SG	44:LE:378:ILE:HD11	2.55	0.47
44:LG:145:THR:HG21	46:LG:501:GTP:O3G	2.14	0.47
44:LG:188:ILE:CD1	44:LG:395:PHE:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LG:257:THR:HA	45:LJ:397:TRP:CZ2	2.50	0.47
44:LG:261:PRO:HA	45:LJ:394:PHE:CD1	2.49	0.47
44:LG:394:LYS:HD3	45:LH:346:PRO:CG	2.44	0.47
45:LH:382:ALA:CA	45:LH:415:MET:HE1	2.45	0.47
44:LI:110:ILE:HB	44:LI:113:GLU:OE2	2.14	0.47
45:LJ:1:MET:C	45:LJ:2:ARG:HG2	2.35	0.47
45:LJ:257:LEU:HD23	45:LJ:266:PHE:CZ	2.49	0.47
45:LJ:265:PHE:HE2	45:LJ:378:PHE:CZ	2.28	0.47
44:LK:174:SER:HB2	44:LK:177:VAL:O	2.14	0.47
44:LK:205:ASP:OD2	44:LK:303:ALA:HA	2.13	0.47
45:LL:68:LEU:HD22	45:LL:143:THR:HG1	1.80	0.47
45:LL:189:VAL:HG21	45:LL:378:PHE:CZ	2.50	0.47
45:LL:340:TYR:O	45:LL:341:PHE:HD1	1.96	0.47
45:LL:362:LYS:C	45:LL:363:MET:HE2	2.35	0.47
45:LL:383:GLU:OE2	45:LL:384:GLN:HG3	2.14	0.47
45:LL:401:GLU:N	45:LL:401:GLU:OE1	2.47	0.47
44:LM:291:ILE:HG13	44:LM:292:THR:N	2.29	0.47
44:LM:428:LEU:O	44:LM:431:ASP:N	2.44	0.47
44:LM:433:GLU:O	44:LM:437:ILE:HG23	2.14	0.47
45:LN:163:ILE:HD12	45:LN:251:ARG:CG	2.39	0.47
45:LN:217:LEU:CD1	45:LN:220:PRO:HG3	2.41	0.47
44:MA:237:SER:HA	44:MA:320:ARG:HH11	1.79	0.47
45:MB:9:GLY:HA2	45:MB:66:MET:O	2.14	0.47
45:MB:42:LEU:HB2	45:MB:242:PHE:CE1	2.50	0.47
45:MB:389:PHE:O	45:MB:392:LYS:HD3	2.14	0.47
44:MC:212:ILE:CD1	44:MC:300:ASN:HA	2.45	0.47
44:MC:317:MET:N	44:MC:352:LYS:O	2.42	0.47
44:MC:394:LYS:HG2	45:MD:346:PRO:CG	2.44	0.47
45:MD:271:ALA:HB1	45:MD:272:PRO:HA	1.97	0.47
44:ME:294:SER:HA	44:ME:297:GLU:OE2	2.14	0.47
45:MF:69:GLU:OE2	45:MF:72:THR:HB	2.14	0.47
45:MF:313:ALA:HB1	45:MF:367:PHE:CE1	2.50	0.47
44:MG:42:ILE:HB	44:MG:45:GLY:N	2.29	0.47
44:MG:111:GLY:HA3	44:MG:149:LEU:CD2	2.43	0.47
44:MG:350:GLY:HA2	45:MJ:179:VAL:HG12	1.96	0.47
44:MI:171:ILE:HD11	44:MI:204:LEU:HD22	1.96	0.47
44:MI:237:SER:HA	44:MI:320:ARG:NH1	2.30	0.47
44:MI:437:ILE:HG13	44:MI:437:ILE:O	2.15	0.47
45:MJ:173:PRO:HD2	45:MJ:205:GLU:OE1	2.15	0.47
45:MJ:203:ASP:OD2	45:MJ:301:CYS:HA	2.15	0.47
45:MJ:229:VAL:O	45:MJ:233:MET:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:395:LEU:HG	45:MJ:399:THR:HG21	1.97	0.47
45:MJ:395:LEU:O	45:MJ:399:THR:HG23	2.15	0.47
44:MK:200:VAL:HG13	44:MK:268:MET:HE1	1.94	0.47
44:MK:238:LEU:HG	44:MK:255:PHE:HE2	1.79	0.47
44:MK:257:THR:C	44:MK:258:ASN:HD22	2.16	0.47
44:MK:315:CYS:SG	44:MK:379:SER:HB3	2.55	0.47
45:ML:269:GLY:HA2	45:ML:300:MET:CE	2.45	0.47
44:MM:338:LYS:HE2	44:MM:338:LYS:HA	1.96	0.47
45:MN:190:HIS:O	45:MN:193:VAL:HG12	2.15	0.47
45:MN:309:ARG:NH2	45:MN:426:GLN:O	2.48	0.47
45:MN:348:ASN:O	45:MN:349:ILE:HD13	2.15	0.47
44:NA:96:LYS:HG2	45:NB:1:MET:HE3	1.97	0.47
44:NA:386:GLU:O	44:NA:390:ARG:N	2.31	0.47
45:NB:14:ASN:ND2	45:NB:73:MET:SD	2.87	0.47
45:NB:21:TRP:CH2	45:NB:61:PRO:HB3	2.49	0.47
45:NB:185:ALA:O	45:NB:189:VAL:HG23	2.15	0.47
44:NC:269:LEU:HD12	44:NC:269:LEU:O	2.15	0.47
45:ND:105:HIS:CE1	45:ND:150:LEU:HD12	2.50	0.47
45:ND:148:GLY:O	45:ND:152:ILE:HD12	2.15	0.47
45:ND:192:LEU:HD21	45:ND:199:CYS:HB2	1.97	0.47
45:ND:201:VAL:O	45:ND:202:ILE:HD13	2.15	0.47
45:ND:385:PHE:HE2	45:ND:412:GLU:CB	2.23	0.47
44:NE:97:GLU:HG2	44:NE:105:ARG:HH22	1.80	0.47
44:NE:147:SER:O	44:NE:151:SER:N	2.34	0.47
44:NE:212:ILE:HD11	44:NE:216:ASN:HD22	1.79	0.47
44:NE:248:LEU:HD11	45:NH:222:TYR:CZ	2.49	0.47
44:NE:320:ARG:HD3	44:NE:360:PRO:HG3	1.95	0.47
45:NF:5:VAL:HG12	45:NF:133:PHE:CE1	2.50	0.47
45:NF:146:GLY:O	45:NF:149:THR:HG22	2.14	0.47
45:NF:258:ILE:CD1	45:NF:266:PHE:HZ	2.28	0.47
44:NG:431:ASP:O	44:NG:435:VAL:HG23	2.14	0.47
45:NH:81:PHE:HA	45:NH:84:LEU:HD13	1.97	0.47
45:NH:96:GLY:O	45:NH:103:LYS:NZ	2.48	0.47
45:NH:116:VAL:CA	45:NH:119:VAL:HG12	2.44	0.47
44:NI:1:MET:HE2	44:NI:130:THR:OG1	2.15	0.47
44:NI:96:LYS:HA	45:NJ:1:MET:HE1	1.97	0.47
45:NJ:32:PRO:HD3	45:NJ:81:PHE:HE1	1.78	0.47
45:NJ:113:ILE:HD11	45:NJ:151:LEU:HD23	1.96	0.47
45:NJ:350:LYS:HG2	45:NJ:351:SER:N	2.29	0.47
44:NK:70:LEU:HD13	44:NK:110:ILE:CD1	2.45	0.47
44:NK:205:ASP:OD1	44:NK:205:ASP:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:398:MET:CE	45:NL:346:PRO:HD2	2.45	0.47
45:NL:60:VAL:O	45:NL:60:VAL:HG23	2.15	0.47
44:NM:206:ASN:O	44:NM:209:ILE:HB	2.14	0.47
44:NM:206:ASN:O	44:NM:209:ILE:N	2.44	0.47
44:NM:319:TYR:CB	44:NM:355:ILE:HG23	2.24	0.47
44:NM:362:VAL:CG2	44:NM:366:GLY:HA3	2.44	0.47
45:NN:211:CYS:CA	45:NN:215:LEU:HB2	2.35	0.47
44:OA:242:LEU:HD21	44:OA:252:ILE:HG23	1.97	0.47
45:OB:10:GLY:O	45:OB:14:ASN:N	2.43	0.47
45:OB:134:GLN:O	45:OB:135:ILE:HD13	2.14	0.47
45:OB:263:LEU:HG	45:OB:422:TYR:HD1	1.80	0.47
45:OB:289:LEU:HD12	45:OB:363:MET:CE	2.44	0.47
45:OB:372:THR:HA	45:OB:422:TYR:CE2	2.50	0.47
44:OC:143:GLY:HA3	46:OC:501:GTP:O2B	2.15	0.47
44:OC:219:ILE:O	44:OC:222:PRO:HD3	2.15	0.47
44:OC:265:ILE:HD12	44:OC:432:TYR:CD1	2.49	0.47
44:OC:398:MET:CE	45:OD:346:PRO:HD2	2.45	0.47
45:OD:68:LEU:CD2	45:OD:112:LEU:HD23	2.44	0.47
45:OD:163:ILE:HA	45:OD:197:ASP:OD2	2.14	0.47
45:OD:168:SER:O	45:OD:202:ILE:N	2.46	0.47
45:OD:268:ILE:CD1	45:OD:300:MET:HG2	2.45	0.47
45:OD:342:VAL:HG11	45:OD:344:TRP:CE2	2.50	0.47
44:OE:11:GLN:HG3	44:OE:74:VAL:CG1	2.31	0.47
45:OF:40:SER:HB3	45:OF:43:GLN:HE21	1.78	0.47
45:OF:51:TYR:HD2	45:OF:59:TYR:HB3	1.79	0.47
45:OF:108:GLU:OE1	45:OF:108:GLU:HA	2.15	0.47
45:OF:362:LYS:C	45:OF:363:MET:HG2	2.35	0.47
44:OG:215:ARG:HH22	44:OG:300:ASN:ND2	2.12	0.47
44:OG:269:LEU:H	44:OG:269:LEU:HD23	1.79	0.47
44:OG:313:MET:HG3	44:OG:346:TRP:CH2	2.49	0.47
44:OG:387:VAL:HG13	44:OG:388:PHE:N	2.30	0.47
45:OH:221:THR:O	45:OH:225:LEU:HD12	2.15	0.47
45:OH:371:SER:O	45:OH:374:ILE:HG12	2.15	0.47
44:OI:131:GLY:O	44:OI:133:GLN:HG2	2.14	0.47
45:OJ:108:GLU:OE1	45:OJ:108:GLU:N	2.48	0.47
45:OJ:171:PRO:O	45:OJ:377:MET:HE3	2.14	0.47
45:OJ:258:ILE:HG13	45:OJ:266:PHE:CZ	2.41	0.47
45:OJ:308:GLY:HA3	45:OJ:372:THR:HG1	1.79	0.47
45:OJ:362:LYS:O	45:OJ:363:MET:HG2	2.13	0.47
44:OK:97:GLU:OE1	45:OL:131:GLN:NE2	2.40	0.47
44:OK:160:ASP:HB3	44:OK:161:TYR:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:404:PHE:CE2	45:OL:259:PRO:HA	2.50	0.47
45:OL:313:ALA:N	45:OL:348:ASN:O	2.41	0.47
44:OM:8:HIS:CD2	44:OM:138:PHE:HB2	2.50	0.47
44:OM:404:PHE:CE2	45:ON:259:PRO:HA	2.49	0.47
45:ON:87:PRO:HG2	45:PN:278:SER:HB2	1.96	0.47
45:ON:274:THR:CG2	45:ON:278:SER:HB3	2.43	0.47
45:ON:379:LYS:O	45:ON:382:ALA:N	2.46	0.47
44:PA:136:LEU:HD23	44:PA:167:LEU:HB2	1.97	0.47
44:PA:137:VAL:N	44:PA:167:LEU:O	2.41	0.47
45:PB:127:CYS:SG	45:PB:130:LEU:HB2	2.55	0.47
44:PC:294:SER:HA	44:PC:297:GLU:HG3	1.97	0.47
45:PD:208:TYR:HH	45:PD:222:TYR:HE1	1.59	0.47
44:PE:243:ARG:HG3	44:PE:244:PHE:CZ	2.49	0.47
45:PF:289:LEU:HD11	45:PF:363:MET:CB	2.45	0.47
44:PG:7:ILE:O	44:PG:137:VAL:HA	2.14	0.47
44:PG:419:SER:O	44:PG:422:ARG:HB3	2.15	0.47
45:PH:345:ILE:O	45:PH:345:ILE:HG23	2.14	0.47
45:PH:405:GLU:O	45:PH:409:THR:N	2.34	0.47
44:PI:181:VAL:HG22	45:PJ:256:ASN:OD1	2.13	0.47
44:PI:203:MET:HB2	44:PI:269:LEU:HA	1.97	0.47
44:PI:276:ILE:CG2	44:PI:281:ALA:HB2	2.45	0.47
44:PI:323:VAL:HG22	44:PI:324:VAL:N	2.29	0.47
45:PJ:11:GLN:N	48:PJ:501:GDP:O1B	2.45	0.47
45:PJ:289:LEU:HD11	45:PJ:363:MET:HB3	1.97	0.47
44:PK:205:ASP:CG	44:PK:303:ALA:HA	2.34	0.47
44:PK:224:TYR:HA	44:PK:227:LEU:HG	1.97	0.47
45:PL:139:LEU:HG	45:PL:188:SER:OG	2.14	0.47
44:PM:265:ILE:HD12	44:PM:435:VAL:HG21	1.96	0.47
45:PN:32:PRO:HG3	45:PN:81:PHE:CE1	2.50	0.47
45:PN:102:ALA:HB3	45:PN:401:GLU:OE1	2.14	0.47
44:QA:23:LEU:O	44:QA:27:GLU:HB2	2.14	0.47
44:QA:47:ASP:HB2	44:QA:49:PHE:CE1	2.50	0.47
44:QA:137:VAL:HG12	44:QA:167:LEU:O	2.15	0.47
44:QA:313:MET:CG	44:QA:382:THR:HG22	2.40	0.47
44:QA:344:VAL:HG21	44:QA:346:TRP:NE1	2.29	0.47
45:QB:167:PHE:CD1	45:QB:200:MET:HB2	2.48	0.47
44:QC:175:PRO:HD2	44:QC:207:GLU:OE1	2.15	0.47
44:QC:219:ILE:HG23	44:QC:219:ILE:O	2.15	0.47
44:QC:240:ALA:HB1	44:QC:244:PHE:CD2	2.45	0.47
44:QC:332:ILE:HG22	44:QC:336:LYS:HE2	1.96	0.47
45:QD:119:VAL:O	45:QD:122:LYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:130:LEU:HD21	45:QD:133:PHE:CZ	2.50	0.47
45:QD:164:MET:HE3	45:QD:197:ASP:H	1.77	0.47
45:QD:183:TYR:HA	45:QD:385:PHE:HD1	1.79	0.47
45:QD:406:MET:O	45:QD:409:THR:N	2.48	0.47
44:QE:13:GLY:HA2	44:QE:16:VAL:HG12	1.97	0.47
44:QE:93:ILE:HD12	44:QE:93:ILE:H	1.79	0.47
44:QE:215:ARG:HH22	44:QE:299:ALA:CB	2.28	0.47
44:QE:229:ARG:O	44:QE:232:ALA:HB3	2.15	0.47
44:QE:229:ARG:HH11	44:QE:366:GLY:HA2	1.75	0.47
44:QE:265:ILE:HG23	44:QE:432:TYR:CE1	2.50	0.47
44:QE:265:ILE:HG12	44:QE:432:TYR:CE1	2.50	0.47
44:QE:298:PRO:HG3	44:QE:308:ARG:NH1	2.30	0.47
44:QE:318:MET:HA	44:QE:318:MET:CE	2.44	0.47
44:QE:416:GLY:O	44:QE:419:SER:N	2.47	0.47
45:QF:134:GLN:HB3	45:QF:165:GLU:OE1	2.14	0.47
45:QF:136:THR:HG21	45:QF:233:MET:CE	2.45	0.47
45:QF:192:LEU:HD11	45:QF:196:ALA:HB2	1.97	0.47
45:QF:342:VAL:HG22	45:QF:343:GLU:N	2.29	0.47
44:QG:107:HIS:CD2	44:QG:151:SER:HB3	2.50	0.47
44:QG:246:GLY:HA2	44:QG:357:TYR:CE2	2.50	0.47
44:QG:250:VAL:HA	44:QG:254:GLU:OE2	2.14	0.47
44:QG:317:MET:CE	44:QG:375:VAL:HG21	2.45	0.47
44:QG:439:THR:HG21	45:QH:390:ARG:CD	2.45	0.47
45:QH:190:HIS:CD2	45:QH:411:ALA:HA	2.50	0.47
45:QH:314:SER:HA	45:QH:350:LYS:CB	2.37	0.47
45:QH:362:LYS:HD2	45:QH:362:LYS:O	2.15	0.47
45:QJ:241:ARG:HG2	45:QJ:242:PHE:CE2	2.49	0.47
45:QJ:248:SER:CB	45:QJ:252:LYS:HD2	2.45	0.47
45:QJ:322:SER:O	45:QJ:326:VAL:HG23	2.15	0.47
44:QK:6:SER:OG	44:QK:65:ALA:HB2	2.14	0.47
44:QK:101:ASN:O	44:QK:182:VAL:HG11	2.14	0.47
44:QK:169:PHE:CE1	44:QK:202:VAL:HB	2.50	0.47
44:QK:221:ARG:N	44:QK:222:PRO:CD	2.78	0.47
44:QK:312:TYR:HB2	44:QK:343:PHE:CD1	2.50	0.47
45:QL:80:PRO:O	45:QL:81:PHE:HB2	2.15	0.47
45:QL:101:TRP:HZ2	45:QL:149:THR:HG21	1.78	0.47
45:QL:130:LEU:HD21	45:QL:133:PHE:CZ	2.49	0.47
45:QL:135:ILE:HG13	45:QL:152:ILE:CD1	2.25	0.47
45:QL:149:THR:HG23	45:QL:150:LEU:N	2.30	0.47
45:QL:229:VAL:O	45:QL:232:ALA:HB3	2.14	0.47
45:QL:398:TYR:O	45:QL:403:MET:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:417:ASP:O	45:QL:421:GLU:N	2.30	0.47
44:QM:401:LYS:O	44:QM:402:ARG:HG2	2.15	0.47
45:QN:175:VAL:CG2	45:QN:205:GLU:HB2	2.44	0.47
45:QN:183:TYR:O	45:QN:187:LEU:HD23	2.15	0.47
45:QN:208:TYR:CE1	45:QN:225:LEU:HD11	2.50	0.47
45:QN:258:ILE:HG13	45:QN:266:PHE:HZ	1.78	0.47
44:RA:192:HIS:CE1	44:RA:420:GLU:HG3	2.49	0.47
44:RA:248:LEU:HB3	44:RA:355:ILE:CB	2.42	0.47
44:RA:319:TYR:O	44:RA:355:ILE:HA	2.14	0.47
45:RB:8:GLN:HG3	45:RB:14:ASN:OD1	2.13	0.47
45:RB:32:PRO:HG3	45:RB:81:PHE:CZ	2.49	0.47
45:RB:32:PRO:HA	45:RB:81:PHE:CD2	2.50	0.47
45:RB:52:ASN:ND2	45:RB:62:ARG:HE	2.12	0.47
45:RB:185:ALA:O	45:RB:189:VAL:HG23	2.14	0.47
44:RC:136:LEU:HD23	44:RC:167:LEU:HB2	1.95	0.47
44:RC:217:LEU:HA	44:RC:277:SER:OG	2.15	0.47
44:RC:317:MET:HE2	44:RC:319:TYR:CZ	2.49	0.47
45:RD:64:ILE:HG23	45:RD:89:ASN:CA	2.45	0.47
45:RD:164:MET:CB	45:RD:197:ASP:HB2	2.39	0.47
45:RD:178:THR:HG22	45:RD:180:VAL:HG12	1.95	0.47
45:RD:327:ASP:HA	45:RD:330:MET:HB2	1.96	0.47
44:RE:20:CYS:O	44:RE:24:PHE:N	2.38	0.47
44:RE:185:TYR:OH	44:RE:398:MET:HB2	2.14	0.47
44:RE:205:ASP:OD1	44:RE:303:ALA:HA	2.14	0.47
45:RF:2:ARG:NH2	44:RG:73:THR:HG1	2.12	0.47
45:RF:4:ILE:HG23	45:RF:131:GLN:CG	2.45	0.47
45:RF:5:VAL:HG13	45:RF:130:LEU:HD11	1.96	0.47
45:RF:134:GLN:O	45:RF:134:GLN:HG3	2.14	0.47
45:RF:139:LEU:HB2	45:RF:169:VAL:O	2.15	0.47
45:RF:143:THR:O	45:RF:147:MET:HB3	2.14	0.47
45:RF:173:PRO:CB	45:RF:380:ARG:HH11	2.28	0.47
45:RF:318:ARG:CD	45:RF:358:PRO:HD3	2.34	0.47
44:RG:14:ILE:HD11	44:RG:69:ASP:CB	2.35	0.47
45:RH:208:TYR:CZ	45:RH:225:LEU:HD11	2.50	0.47
44:RI:7:ILE:CD1	44:RI:66:VAL:HB	2.44	0.47
44:RI:11:GLN:HB3	46:RI:501:GTP:PB	2.54	0.47
44:RI:13:GLY:O	44:RI:16:VAL:HG12	2.15	0.47
44:RI:133:GLN:O	44:RI:164:LYS:HD2	2.14	0.47
45:RJ:7:ILE:HG22	45:RJ:134:GLN:O	2.14	0.47
44:RK:76:ASP:OD1	44:RK:79:ARG:NH2	2.48	0.47
44:RK:101:ASN:OD1	44:RK:143:GLY:HA2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RK:317:MET:N	44:RK:352:LYS:O	2.33	0.47
45:RL:73:MET:CE	45:RL:92:PHE:HB3	2.44	0.47
45:RL:124:ALA:O	45:RL:127:CYS:N	2.28	0.47
45:RL:208:TYR:HA	45:RL:211:CYS:SG	2.55	0.47
45:RL:304:ASP:HB3	45:RL:307:HIS:CG	2.48	0.47
45:RL:406:MET:O	45:RL:410:GLU:HG3	2.15	0.47
44:RM:175:PRO:HD2	44:RM:207:GLU:OE1	2.15	0.47
44:RM:343:PHE:CE2	44:RM:350:GLY:HA3	2.48	0.47
45:RN:8:GLN:NE2	45:RN:17:GLY:HA3	2.30	0.47
45:RN:135:ILE:HB	45:RN:166:THR:HG22	1.96	0.47
45:RN:190:HIS:CD2	45:RN:191:GLN:HE21	2.33	0.47
45:RN:227:HIS:O	45:RN:231:ALA:N	2.42	0.47
45:RN:290:THR:CA	45:RN:293:MET:HG2	2.43	0.47
44:SA:48:ALA:HB1	44:SA:243:ARG:HB2	1.96	0.47
44:SA:121:ARG:NH1	44:SA:124:LYS:HD2	2.30	0.47
44:SA:175:PRO:HG2	44:SA:304:LYS:HG2	1.96	0.47
44:SA:312:TYR:HD2	44:SA:341:ILE:HG23	1.78	0.47
45:SB:4:ILE:CG1	45:SB:50:TYR:HE1	2.27	0.47
45:SB:116:VAL:O	45:SB:119:VAL:HG12	2.15	0.47
45:SB:169:VAL:HG22	45:SB:202:ILE:HB	1.97	0.47
45:SB:269:GLY:O	45:SB:367:PHE:HB3	2.15	0.47
45:SB:308:GLY:HA3	45:SB:377:MET:N	2.29	0.47
44:SC:107:HIS:ND1	44:SC:107:HIS:O	2.48	0.47
44:SC:413:MET:HE3	44:SC:418:PHE:CE2	2.49	0.47
44:SE:99:ALA:HB3	44:SE:145:THR:CG2	2.45	0.47
44:SE:102:ASN:ND2	44:SE:411:GLU:HG3	2.30	0.47
45:SF:4:ILE:HA	45:SF:130:LEU:CD1	2.44	0.47
45:SF:42:LEU:HA	45:SF:45:GLU:HG3	1.96	0.47
45:SF:163:ILE:HD11	45:SF:250:LEU:HB2	1.95	0.47
45:SF:246:LEU:HA	44:SG:11:GLN:HE22	1.79	0.47
45:SF:284:LEU:HD22	45:SF:363:MET:HE3	1.97	0.47
44:SG:278:ALA:H	44:SG:369:ALA:HB2	1.80	0.47
45:SH:289:LEU:CD1	45:SH:365:VAL:HG13	2.41	0.47
45:SH:403:MET:HG2	45:SH:407:GLU:OE2	2.14	0.47
44:SI:296:PHE:CE1	44:SI:335:ILE:HG21	2.50	0.47
45:SJ:192:LEU:HD12	45:SJ:196:ALA:HB2	1.96	0.47
45:SJ:324:LYS:HB2	44:SK:210:TYR:CE1	2.50	0.47
44:SK:216:ASN:HB3	44:SK:275:ILE:CG2	2.45	0.47
45:SL:52:ASN:O	45:SL:60:VAL:HG22	2.14	0.47
45:SL:65:LEU:HD13	45:SL:90:PHE:HE1	1.79	0.47
45:SL:202:ILE:HD12	45:SL:229:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:213:CYS:SG	44:SM:217:LEU:HD12	2.55	0.47
44:SM:399:TYR:C	44:SM:402:ARG:H	2.18	0.47
44:SM:422:ARG:NH1	44:SM:426:ALA:HB2	2.20	0.47
45:SN:116:VAL:HG22	45:SN:120:VAL:HG23	1.95	0.47
44:TA:88:HIS:HB3	44:TA:91:GLN:CD	2.35	0.47
44:TA:270:SER:CB	44:TA:378:ILE:HD13	2.41	0.47
44:TA:328:VAL:O	44:TA:332:ILE:HG12	2.14	0.47
45:TB:3:GLU:HB2	45:TB:49:VAL:HA	1.96	0.47
45:TB:279:GLN:OE1	45:TB:280:GLN:HG2	2.14	0.47
45:TB:323:THR:HG21	44:TC:224:TYR:CD2	2.50	0.47
45:TB:379:LYS:HG3	45:TB:419:VAL:HG11	1.96	0.47
45:TB:395:LEU:HG	45:TB:399:THR:HG23	1.96	0.47
44:TC:4:VAL:HG13	44:TC:52:PHE:HE1	1.80	0.47
44:TC:10:GLY:O	44:TC:14:ILE:HD12	2.14	0.47
44:TC:88:HIS:CE1	44:TC:90:GLU:HG2	2.50	0.47
44:TC:137:VAL:CG1	44:TC:168:GLY:HA2	2.45	0.47
44:TC:272:TYR:OH	44:TC:374:ALA:HB1	2.15	0.47
45:TD:164:MET:CB	45:TD:197:ASP:HB2	2.43	0.47
44:TE:145:THR:HG23	44:TE:146:GLY:N	2.30	0.47
44:TE:208:ALA:HB3	44:TE:303:ALA:HA	1.95	0.47
44:TE:231:ILE:O	44:TE:234:VAL:N	2.47	0.47
44:TE:235:ILE:HD12	44:TE:235:ILE:H	1.79	0.47
44:TE:259:LEU:HD11	44:TE:316:SER:HB2	1.97	0.47
44:TE:326:LYS:HD3	45:TF:212:PHE:CZ	2.29	0.47
45:TF:18:ALA:HB2	45:TF:76:VAL:CG2	2.45	0.47
45:TF:217:LEU:CD1	45:TF:220:PRO:HD3	2.38	0.47
44:TG:102:ASN:ND2	44:TG:411:GLU:HG3	2.30	0.47
44:TG:319:TYR:HD1	44:TG:375:VAL:HG22	1.79	0.47
44:TG:326:LYS:HG2	45:TH:220:PRO:HD2	1.96	0.47
44:TI:24:PHE:CZ	44:TI:236:SER:HB3	2.48	0.47
44:TI:191:THR:O	44:TI:195:LEU:N	2.48	0.47
44:TI:237:SER:HA	44:TI:320:ARG:NH1	2.30	0.47
44:TI:292:THR:HG23	44:TI:293:ASN:N	2.30	0.47
44:TI:423:GLU:HA	44:TI:426:ALA:HB3	1.96	0.47
45:TJ:41:ASP:C	45:TJ:45:GLU:HG3	2.35	0.47
45:TJ:270:PHE:HD2	45:TJ:273:LEU:HD21	1.78	0.47
45:TJ:345:ILE:HG13	44:TK:398:MET:CE	2.45	0.47
45:TJ:357:PRO:HB2	45:TJ:361:LEU:O	2.15	0.47
44:TK:111:GLY:O	44:TK:115:VAL:N	2.46	0.47
44:TK:112:LYS:O	44:TK:115:VAL:HG12	2.14	0.47
44:TK:119:LEU:HD21	44:TK:156:ARG:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:291:ILE:O	44:TK:294:SER:OG	2.22	0.47
44:TK:326:LYS:H	44:TK:326:LYS:HE2	1.79	0.47
45:TL:4:ILE:HB	45:TL:134:GLN:CD	2.35	0.47
45:TL:32:PRO:HG3	45:TL:81:PHE:CE2	2.49	0.47
45:TL:346:PRO:HB2	44:TM:394:LYS:NZ	2.30	0.47
45:TL:350:LYS:HD3	44:TM:179:THR:HG22	1.95	0.47
44:TM:9:VAL:HG21	44:TM:150:GLY:N	2.30	0.47
44:TM:242:LEU:HD11	44:TM:252:ILE:CD1	2.45	0.47
44:TM:388:PHE:O	44:TM:392:ASP:N	2.28	0.47
45:TN:55:THR:OG1	45:UN:281:TYR:HB2	2.15	0.47
45:TN:64:ILE:HG12	45:TN:119:VAL:HG22	1.95	0.47
45:TN:375:GLN:HB2	45:TN:419:VAL:CG1	2.44	0.47
44:UA:115:VAL:HG22	44:UA:156:ARG:HD2	1.96	0.47
44:UA:288:VAL:HG23	44:UA:373:ARG:CZ	2.44	0.47
45:UB:156:ARG:NH1	45:UB:160:PRO:HA	2.30	0.47
45:UB:271:ALA:HB1	45:UB:272:PRO:CA	2.36	0.47
45:UB:289:LEU:C	45:UB:293:MET:HG2	2.35	0.47
45:UB:334:GLN:HE22	45:UB:348:ASN:H	1.61	0.47
44:UC:88:HIS:O	44:UC:90:GLU:N	2.48	0.47
44:UC:270:SER:HB3	44:UC:378:ILE:HD12	1.97	0.47
45:UD:109:GLY:O	45:UD:113:ILE:HB	2.14	0.47
45:UD:215:LEU:CD2	45:UD:217:LEU:H	2.26	0.47
45:UD:342:VAL:HG21	45:UD:344:TRP:NE1	2.30	0.47
44:UE:23:LEU:HD11	44:UE:233:GLN:OE1	2.15	0.47
44:UE:217:LEU:HB3	44:UE:219:ILE:HG13	1.97	0.47
45:UF:4:ILE:HG22	45:UF:131:GLN:HB3	1.96	0.47
45:UF:8:GLN:OE1	45:UF:17:GLY:HA3	2.15	0.47
45:UF:60:VAL:CG2	45:UF:86:ARG:HB2	2.35	0.47
45:UF:221:THR:HG22	45:UF:224:ASP:CG	2.34	0.47
45:UF:234:SER:O	45:UF:238:CYS:HB3	2.14	0.47
45:UF:363:MET:HE3	45:UF:363:MET:CA	2.35	0.47
44:UG:2:ARG:NH2	45:UH:71:GLY:HA3	2.25	0.47
44:UG:70:LEU:HD13	44:UG:110:ILE:CD1	2.45	0.47
44:UG:247:ALA:HB3	45:UH:222:TYR:HD2	1.80	0.47
45:UH:86:ARG:HD3	45:UH:86:ARG:HA	1.65	0.47
45:UH:134:GLN:O	45:UH:134:GLN:HG3	2.15	0.47
44:UI:32:PRO:HB3	44:UI:83:TYR:CD1	2.49	0.47
44:UI:291:ILE:HG13	44:UI:292:THR:H	1.78	0.47
45:UJ:7:ILE:HB	45:UJ:135:ILE:CD1	2.45	0.47
45:UJ:17:GLY:O	45:UJ:21:TRP:HB2	2.14	0.47
45:UJ:141:GLY:HA3	48:UJ:501:GDP:O2A	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:173:PRO:CD	45:UJ:380:ARG:HD3	2.44	0.47
44:UK:89:PRO:HD3	44:VI:280:LYS:HG2	1.94	0.47
44:UK:154:LEU:HD23	44:UK:157:LEU:HD12	1.97	0.47
44:UK:166:LYS:CB	44:UK:198:THR:HG23	2.37	0.47
44:UK:188:ILE:CD1	44:UK:425:LEU:HD12	2.44	0.47
44:UK:256:GLN:HE21	44:UK:260:VAL:CB	2.28	0.47
45:UL:313:ALA:HA	45:UL:369:GLY:HA2	1.96	0.47
45:UL:331:LEU:HD11	44:UM:176:GLN:HG3	1.97	0.47
44:UM:230:LEU:O	44:UM:233:GLN:N	2.46	0.47
44:UM:269:LEU:N	44:UM:379:SER:O	2.42	0.47
44:UM:320:ARG:N	44:UM:374:ALA:O	2.48	0.47
45:UN:102:ALA:HB2	45:UN:403:MET:HE1	1.96	0.47
45:UN:190:HIS:ND1	45:UN:411:ALA:HA	2.30	0.47
45:UN:317:PHE:O	45:UN:354:CYS:N	2.47	0.47
44:VA:7:ILE:HB	44:VA:137:VAL:CG2	2.44	0.47
44:VA:114:ILE:O	44:VA:114:ILE:HG22	2.15	0.47
44:VA:288:VAL:HG21	44:VA:327:ASP:CB	2.30	0.47
44:VA:301:MET:HE1	44:VA:307:PRO:HD3	1.93	0.47
45:VB:22:GLU:HA	45:VB:81:PHE:CD2	2.49	0.47
45:VB:285:THR:O	45:VB:287:PRO:CD	2.62	0.47
44:VC:11:GLN:OE1	44:VC:11:GLN:N	2.40	0.47
44:VC:31:GLN:HB3	44:VC:32:PRO:CD	2.45	0.47
44:VC:34:GLY:O	44:VC:60:LYS:HA	2.14	0.47
44:VC:183:GLU:N	44:VC:184:PRO:HD2	2.30	0.47
44:VC:408:TYR:HB2	44:VC:418:PHE:HZ	1.79	0.47
45:VD:11:GLN:HB2	48:VD:501:GDP:O3B	2.15	0.47
45:VD:16:ILE:HD13	45:VD:226:ASN:OD1	2.15	0.47
45:VD:20:PHE:CE2	45:VD:24:ILE:HD11	2.49	0.47
45:VD:49:VAL:CG2	45:VD:241:ARG:HG2	2.24	0.47
45:VD:240:LEU:HD12	45:VD:249:ASP:HA	1.97	0.47
45:VD:264:HIS:CE1	45:VD:265:PHE:HE1	2.32	0.47
44:VE:326:LYS:HB3	45:VH:220:PRO:HD2	1.96	0.47
44:VE:403:ALA:O	44:VE:404:PHE:HB2	2.14	0.47
45:VF:267:MET:HE2	45:VF:267:MET:HB2	1.80	0.47
44:VG:237:SER:HA	44:VG:320:ARG:HH11	1.79	0.47
44:VG:276:ILE:HD13	44:VG:281:ALA:HA	1.95	0.47
45:VH:217:LEU:HD11	45:VH:220:PRO:CB	2.45	0.47
45:VH:253:LEU:O	45:VH:257:LEU:HD13	2.14	0.47
45:VH:309:ARG:H	45:VH:372:THR:HG1	1.62	0.47
44:VI:32:PRO:O	44:VI:86:LEU:HB2	2.14	0.47
44:VI:119:LEU:HA	44:VI:122:ILE:CG1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:186:ASN:OD1	44:VI:187:SER:N	2.48	0.47
44:VI:231:ILE:O	44:VI:234:VAL:HB	2.14	0.47
44:VI:358:GLN:HG3	44:VI:359:PRO:HD2	1.97	0.47
45:VJ:97:ALA:C	45:VJ:103:LYS:HD2	2.35	0.47
45:VJ:105:HIS:O	45:VJ:150:LEU:HD13	2.13	0.47
45:VJ:310:TYR:O	45:VJ:342:VAL:CG2	2.62	0.47
45:VJ:311:LEU:HD22	45:VJ:312:THR:HG22	1.97	0.47
44:VK:9:VAL:HG21	44:VK:149:LEU:HB2	1.97	0.47
44:VK:104:ALA:HA	44:VK:413:MET:HE2	1.96	0.47
45:VL:344:TRP:CB	45:VL:430:ALA:HB2	2.43	0.47
44:VM:180:ALA:HB3	44:VM:183:GLU:HB3	1.95	0.47
45:VN:86:ARG:NH2	45:VN:123:GLU:OE2	2.48	0.47
45:VN:99:ASN:HD21	45:VN:184:ASN:ND2	2.12	0.47
45:VN:244:GLY:HA2	45:VN:355:ASP:OD2	2.14	0.47
44:WA:71:GLU:OE2	44:WA:73:THR:HG23	2.15	0.47
44:WA:149:LEU:HD22	44:WA:153:LEU:HD11	1.96	0.47
44:WA:152:LEU:C	44:WA:156:ARG:H	2.17	0.47
44:WA:270:SER:HB3	44:WA:378:ILE:HD13	1.97	0.47
45:WB:375:GLN:HB2	45:WB:419:VAL:CG1	2.44	0.47
45:WB:398:TYR:HB3	45:WB:403:MET:HE2	1.96	0.47
44:WC:66:VAL:O	44:WC:66:VAL:HG23	2.15	0.47
44:WC:97:GLU:HG2	44:WC:105:ARG:HH22	1.80	0.47
44:WC:172:TYR:OH	44:WC:191:THR:HG22	2.15	0.47
44:WC:235:ILE:O	44:WC:239:THR:HG23	2.14	0.47
45:WD:187:LEU:HD11	45:WD:408:PHE:CZ	2.49	0.47
45:WD:200:MET:CE	45:WD:266:PHE:HD2	2.27	0.47
44:WE:176:GLN:O	45:WF:347:ASN:ND2	2.47	0.47
44:WE:202:VAL:HG12	44:WE:203:MET:N	2.30	0.47
44:WE:387:VAL:HG23	44:WE:388:PHE:N	2.30	0.47
45:WF:204:ASN:OD1	45:WF:205:GLU:N	2.47	0.47
44:WG:73:THR:CB	45:WH:247:ASN:HD22	2.06	0.47
44:WG:215:ARG:NH1	44:WG:299:ALA:HB1	2.30	0.47
44:WG:288:VAL:HG11	44:WG:327:ASP:HB3	1.97	0.47
44:WI:70:LEU:HD13	44:WI:110:ILE:HD12	1.97	0.47
44:WI:344:VAL:HG11	44:WI:346:TRP:NE1	2.30	0.47
45:WJ:69:GLU:OE2	45:WJ:72:THR:HG22	2.15	0.47
45:WJ:121:ARG:NH1	45:WJ:121:ARG:HB2	2.30	0.47
45:WJ:133:PHE:HB2	45:WJ:164:MET:HE1	1.96	0.47
45:WJ:192:LEU:O	45:WJ:196:ALA:HB3	2.14	0.47
45:WJ:379:LYS:O	45:WJ:383:GLU:N	2.39	0.47
44:WK:122:ILE:HG22	44:WK:161:TYR:OH	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WL:200:MET:HE1	45:WL:266:PHE:HB2	1.97	0.47
45:WL:215:LEU:HD21	45:WL:273:LEU:HB3	1.97	0.47
44:WM:72:PRO:HG3	44:WM:95:GLY:O	2.15	0.47
45:WN:190:HIS:ND1	45:WN:414:ASN:HB3	2.30	0.47
1:6H:291:GLY:HA2	45:FH:279:GLN:OE1	2.14	0.47
2:0A:152:LYS:O	35:7R:82:GLN:NE2	2.40	0.47
5:0D:15:THR:HB	45:CB:1:MET:SD	2.54	0.47
5:1D:52:ASN:CB	45:EF:362:LYS:NZ	2.77	0.47
8:1G:178:LYS:HZ3	44:LA:330:ALA:N	2.10	0.47
9:1H:285:ARG:HH22	45:HF:276:ARG:HH21	1.61	0.47
19:1I:28:GLU:CD	45:JD:216:LYS:HD3	2.34	0.47
19:1I:136:ARG:NH2	45:KF:276:ARG:HH12	2.13	0.47
20:1J:50:LYS:CE	45:ID:283:ALA:HB1	2.45	0.47
10:1N:1:MET:N	44:II:114:ILE:HD11	2.30	0.47
10:1N:1:MET:HG3	44:II:96:LYS:HB2	1.95	0.47
13:1T:149:ASN:HB2	45:MF:402:GLY:O	2.14	0.47
15:1V:98:LEU:HD11	44:LI:405:VAL:HG11	1.95	0.47
31:2H:183:PHE:HB3	45:AD:227:HIS:CD2	2.48	0.47
32:2I:45:LYS:N	45:GH:332:ASN:HD21	2.13	0.47
22:2L:782:LYS:HE2	45:BL:320:ARG:CZ	2.44	0.47
10:2N:247:GLN:HA	45:KB:74:ASP:OD2	2.15	0.47
24:2O:257:GLN:CG	44:UI:58:ALA:HB3	2.45	0.47
37:5B:39:ARG:HD2	44:KC:264:ARG:HE	1.79	0.47
38:5E:56:VAL:HG21	45:OB:215:LEU:CD1	2.44	0.47
38:5F:200:LEU:CD1	44:LG:396:ASP:HB3	2.45	0.47
38:5H:16:GLN:HE21	38:5H:22:LYS:CE	2.27	0.47
11:5Q:6:PHE:CZ	11:5Q:8:SER:HB2	2.50	0.47
35:6R:478:ASN:ND2	35:6R:481:ASN:OD1	2.43	0.47
35:6R:538:PHE:CG	35:6R:578:TYR:CD2	3.03	0.47
35:7R:88:TYR:HB3	35:7R:122:LEU:CD2	2.45	0.47
35:7R:97:CYS:CB	35:7R:180:ILE:HD13	2.36	0.47
35:7R:125:GLY:O	35:7R:149:GLN:HG2	2.15	0.47
44:AA:52:PHE:C	44:AA:64:ARG:HD2	2.35	0.47
44:AA:408:TYR:HB3	44:AA:413:MET:HE2	1.97	0.47
45:AB:343:GLU:OE2	45:AB:430:ALA:HB2	2.15	0.47
44:AC:32:PRO:HB3	44:AC:83:TYR:CD1	2.50	0.47
44:AC:319:TYR:N	44:AC:354:GLY:O	2.45	0.47
45:AD:320:ARG:HH22	45:AD:357:PRO:CG	2.28	0.47
44:AE:105:ARG:NH2	44:AE:110:ILE:HG13	2.30	0.47
44:AE:439:THR:HG23	45:AH:390:ARG:HH21	1.80	0.47
45:AH:86:ARG:NH1	45:BH:278:SER:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:87:PRO:HA	45:AH:90:PHE:CD1	2.50	0.47
45:AH:113:ILE:HD11	45:AH:151:LEU:HD12	1.96	0.47
45:AH:248:SER:OG	45:AH:253:LEU:HD12	2.15	0.47
45:AJ:68:LEU:HD23	45:AJ:97:ALA:CB	2.39	0.47
45:AL:144:GLY:HA2	45:AL:147:MET:HE3	1.96	0.47
44:AM:407:TRP:CZ3	45:AN:255:VAL:HA	2.50	0.47
45:AN:173:PRO:HG2	45:AN:380:ARG:HD3	1.96	0.47
45:AN:377:MET:O	45:AN:380:ARG:HG2	2.15	0.47
45:AN:397:TRP:O	45:AN:400:GLY:N	2.48	0.47
44:BA:133:GLN:CB	44:BA:252:ILE:HD12	2.45	0.47
45:BB:248:SER:HA	45:BB:252:LYS:HE2	1.97	0.47
44:BC:228:ASN:O	44:BC:231:ILE:N	2.48	0.47
44:BE:2:ARG:HG2	44:BE:133:GLN:CG	2.45	0.47
45:BF:110:ALA:HA	45:BF:113:ILE:HG22	1.96	0.47
44:BI:2:ARG:HD2	44:BI:242:LEU:HB3	1.96	0.47
45:BJ:27:GLU:OE2	45:BJ:358:PRO:HA	2.15	0.47
45:BJ:29:GLY:HA3	45:BJ:43:GLN:HE21	1.80	0.47
45:BJ:304:ASP:OD1	45:BJ:305:PRO:HD2	2.15	0.47
44:BM:242:LEU:HD11	44:BM:252:ILE:CG1	2.45	0.47
44:BM:306:ASP:HB3	44:BM:309:HIS:CE1	2.50	0.47
45:BN:317:PHE:HE1	45:BN:326:VAL:HG13	1.78	0.47
45:BN:385:PHE:CE2	45:BN:412:GLU:HB2	2.50	0.47
44:CA:67:PHE:HB3	44:CA:75:ILE:CD1	2.42	0.47
44:CA:240:ALA:HB1	44:CA:356:ASN:ND2	2.29	0.47
44:CA:384:ILE:HG13	44:CA:387:VAL:HG22	1.97	0.47
45:CB:287:PRO:HA	45:CB:290:THR:HG22	1.96	0.47
44:CC:385:ALA:HA	44:CC:388:PHE:CD2	2.50	0.47
44:CE:265:ILE:HG23	44:CE:432:TYR:CE1	2.50	0.47
45:CF:192:LEU:HD11	45:CF:196:ALA:HB2	1.97	0.47
45:CF:344:TRP:HB3	45:CF:430:ALA:HB2	1.97	0.47
44:CG:319:TYR:CD2	44:CG:323:VAL:HG21	2.50	0.47
44:CG:432:TYR:CA	44:CG:435:VAL:HG22	2.42	0.47
45:CH:245:GLN:O	45:CH:246:LEU:HG	2.15	0.47
45:CJ:31:ASP:HB3	45:CJ:32:PRO:CD	2.44	0.47
45:CJ:314:SER:OG	45:CJ:350:LYS:HB3	2.15	0.47
44:CK:304:LYS:HE3	44:CK:387:VAL:HG21	1.97	0.47
45:CL:304:ASP:OD2	45:CL:307:HIS:NE2	2.47	0.47
45:CL:332:ASN:HA	45:CL:335:ASN:ND2	2.30	0.47
44:CM:120:ASP:HB3	44:CM:123:ARG:HH21	1.80	0.47
44:CM:285:GLN:O	44:CM:373:ARG:NH2	2.47	0.47
44:CM:363:VAL:HG13	44:CM:366:GLY:HA3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:406:HIS:CE1	44:CM:407:TRP:CD1	3.03	0.47
45:CN:67:ASP:OD1	45:CN:68:LEU:N	2.48	0.47
45:CN:130:LEU:HD21	45:CN:133:PHE:HZ	1.79	0.47
44:DA:248:LEU:HD23	44:DA:353:VAL:O	2.14	0.47
44:DA:323:VAL:HG13	44:DA:355:ILE:HG23	1.96	0.47
45:DB:3:GLU:OE2	45:DB:127:CYS:HB2	2.14	0.47
44:DC:214:ARG:NH1	44:DC:220:GLU:HG2	2.19	0.47
44:DC:215:ARG:NH2	44:DC:300:ASN:OD1	2.48	0.47
45:DD:58:ARG:CZ	45:ED:281:TYR:HE1	2.27	0.47
44:DE:46:ASP:OD1	44:DE:48:ALA:HB2	2.15	0.47
45:DF:18:ALA:O	45:DF:22:GLU:HG3	2.15	0.47
45:DF:66:MET:CE	45:DF:148:GLY:HA2	2.39	0.47
45:DF:256:ASN:CB	45:DF:350:LYS:HD2	2.44	0.47
45:DH:201:VAL:HG22	45:DH:266:PHE:O	2.14	0.47
44:DI:188:ILE:HD12	44:DI:425:LEU:CD1	2.45	0.47
44:DI:409:VAL:HA	44:DI:413:MET:O	2.15	0.47
45:DJ:169:VAL:O	45:DJ:169:VAL:HG23	2.15	0.47
44:DK:71:GLU:OE1	44:DK:73:THR:HB	2.15	0.47
44:DK:88:HIS:HB3	44:DK:91:GLN:CD	2.35	0.47
44:DK:335:ILE:HA	44:DK:338:LYS:HZ1	1.80	0.47
45:DL:110:ALA:CA	45:DL:113:ILE:HG22	2.45	0.47
45:DL:318:ARG:O	45:DL:321:MET:HE1	2.15	0.47
44:DM:346:TRP:O	44:DM:348:PRO:HD3	2.14	0.47
45:DN:64:ILE:HG12	45:DN:119:VAL:HG21	1.95	0.47
44:EA:72:PRO:HG3	44:EA:95:GLY:O	2.15	0.47
45:EB:20:PHE:HB2	45:EB:233:MET:HE3	1.97	0.47
44:EC:5:ILE:HG21	44:EC:125:LEU:HD13	1.96	0.47
44:EC:276:ILE:CD1	44:EC:281:ALA:HA	2.35	0.47
45:ED:324:LYS:CE	44:EE:210:TYR:CD1	2.98	0.47
44:EE:88:HIS:O	44:EE:91:GLN:HG2	2.14	0.47
44:EE:329:ASN:HD21	45:EF:175:VAL:HG21	1.80	0.47
45:EF:192:LEU:HD12	45:EF:196:ALA:HB2	1.95	0.47
45:EH:238:CYS:SG	45:EH:239:CYS:N	2.88	0.47
45:EH:324:LYS:HG2	45:EH:328:GLU:OE2	2.15	0.47
44:EI:88:HIS:HB3	44:EI:91:GLN:CD	2.34	0.47
44:EI:298:PRO:HG3	44:EI:308:ARG:HD3	1.96	0.47
44:EI:388:PHE:O	44:EI:392:ASP:N	2.39	0.47
45:EJ:101:TRP:HB3	45:EJ:398:TYR:HE1	1.79	0.47
45:EJ:112:LEU:O	45:EJ:112:LEU:HD23	2.15	0.47
44:EK:115:VAL:HG11	44:EK:152:LEU:HD21	1.97	0.47
44:EK:406:HIS:ND1	44:EK:407:TRP:CD1	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:70:PRO:O	45:EL:73:MET:HB2	2.14	0.47
45:FB:377:MET:CE	45:FB:380:ARG:HD2	2.45	0.47
45:FB:421:GLU:O	45:FB:424:GLN:HB3	2.15	0.47
44:FC:1:MET:HG3	44:FC:1:MET:O	2.14	0.47
44:FC:11:GLN:NE2	45:FD:245:GLN:O	2.48	0.47
44:FC:108:TYR:CE1	44:FC:413:MET:HE1	2.50	0.47
44:FC:115:VAL:O	44:FC:119:LEU:HD23	2.14	0.47
45:FD:183:TYR:O	45:FD:187:LEU:HD12	2.15	0.47
44:FE:4:VAL:HG11	44:FE:52:PHE:HE1	1.80	0.47
45:FF:73:MET:CA	45:FF:76:VAL:HG12	2.36	0.47
45:FF:359:LYS:HD2	45:FF:359:LYS:O	2.14	0.47
44:FG:62:VAL:O	44:FG:62:VAL:HG13	2.15	0.47
44:FG:326:LYS:NZ	45:FJ:220:PRO:O	2.48	0.47
45:FH:206:ALA:O	45:FH:210:ILE:N	2.44	0.47
45:FH:268:ILE:O	45:FH:300:MET:HE2	2.15	0.47
45:FH:345:ILE:O	45:FH:345:ILE:HG23	2.15	0.47
44:FI:89:PRO:HD3	44:GI:283:HIS:CD2	2.35	0.47
44:FI:362:VAL:HG11	44:FI:370:LYS:CA	2.39	0.47
45:FJ:319:GLY:HA2	45:FJ:355:ASP:O	2.15	0.47
44:FK:287:SER:HB3	44:FK:290:GLU:CG	2.45	0.47
45:FL:405:GLU:HG2	45:FL:406:MET:SD	2.54	0.47
44:FM:404:PHE:O	44:FM:408:TYR:HD1	1.97	0.47
45:FN:49:VAL:HG11	45:FN:241:ARG:CD	2.44	0.47
45:FN:86:ARG:HG3	45:FN:88:ASP:N	2.29	0.47
45:FN:256:ASN:C	45:FN:257:LEU:HD12	2.34	0.47
45:FN:372:THR:HA	45:FN:422:TYR:CE2	2.49	0.47
45:FN:390:ARG:HG3	45:FN:391:ARG:N	2.30	0.47
44:GC:221:ARG:HH22	45:GD:321:MET:HB2	1.80	0.47
44:GC:406:HIS:O	44:GC:409:VAL:HB	2.14	0.47
45:GD:1:MET:HE2	45:GD:1:MET:H1	1.79	0.47
45:GD:253:LEU:CD2	45:GD:257:LEU:HD22	2.45	0.47
44:GE:22:GLU:HG3	44:GE:83:TYR:OH	2.13	0.47
44:GG:60:LYS:NZ	44:GG:85:GLN:O	2.48	0.47
45:GH:117:LEU:O	45:GH:120:VAL:HB	2.15	0.47
44:GI:104:ALA:HB1	44:GI:411:GLU:HB2	1.97	0.47
44:GI:148:GLY:O	44:GI:151:SER:OG	2.23	0.47
44:GI:210:TYR:O	44:GI:213:CYS:HB2	2.15	0.47
45:GJ:348:ASN:OD1	45:GJ:349:ILE:HD12	2.15	0.47
45:GL:66:MET:SD	45:GL:151:LEU:HD13	2.55	0.47
45:GL:186:THR:OG1	45:GL:381:VAL:HG12	2.15	0.47
44:GM:221:ARG:NH1	45:GN:325:GLU:H	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:105:ARG:HA	44:HA:109:THR:HB	1.97	0.47
45:HB:395:LEU:CD1	45:HB:408:PHE:HE2	2.28	0.47
44:HC:104:ALA:CB	44:HC:411:GLU:HB2	2.44	0.47
44:HC:437:ILE:O	44:HC:437:ILE:HG13	2.15	0.47
44:HE:254:GLU:O	44:HE:254:GLU:HG2	2.14	0.47
44:HE:298:PRO:HB3	44:HE:306:ASP:OD1	2.14	0.47
44:HE:319:TYR:CD2	44:HE:328:VAL:HG22	2.50	0.47
45:HF:6:HIS:CD2	45:HF:21:TRP:HE1	2.33	0.47
44:HG:88:HIS:CG	44:HG:91:GLN:HG3	2.50	0.47
45:HH:135:ILE:HG13	45:HH:152:ILE:HD11	1.96	0.47
45:HJ:134:GLN:HG3	45:HJ:134:GLN:O	2.15	0.47
45:HJ:309:ARG:NH1	45:HJ:426:GLN:O	2.48	0.47
44:HK:248:LEU:HB3	44:HK:355:ILE:CD1	2.39	0.47
45:HL:187:LEU:HD13	45:HL:408:PHE:CD1	2.49	0.47
45:HL:200:MET:HE1	45:HL:268:ILE:HD13	1.96	0.47
44:HM:242:LEU:HD21	44:HM:252:ILE:HG13	1.97	0.47
44:HM:399:TYR:OH	44:HM:418:PHE:HB2	2.15	0.47
44:HM:419:SER:O	44:HM:423:GLU:HG3	2.15	0.47
45:HN:20:PHE:CE1	45:HN:233:MET:HB3	2.49	0.47
45:HN:285:THR:O	45:HN:287:PRO:CD	2.62	0.47
44:IA:208:ALA:HB3	44:IA:302:MET:O	2.14	0.47
45:IB:3:GLU:CA	45:IB:49:VAL:HG13	2.29	0.47
45:IB:332:ASN:C	45:IB:335:ASN:H	2.15	0.47
44:IC:132:LEU:HD11	44:IC:135:PHE:CE1	2.48	0.47
44:IC:270:SER:HB2	44:IC:378:ILE:HD13	1.97	0.47
45:ID:19:LYS:O	45:ID:22:GLU:HB2	2.14	0.47
45:ID:388:MET:HE2	45:ID:394:PHE:HB2	1.97	0.47
44:IE:30:ILE:HD12	44:IE:53:PHE:CZ	2.49	0.47
45:IH:257:LEU:O	45:IH:259:PRO:HD3	2.15	0.47
45:IH:292:GLN:HA	45:IH:295:ASP:HB2	1.97	0.47
45:IH:398:TYR:CD2	45:IH:408:PHE:HZ	2.33	0.47
44:II:284:GLU:O	44:II:286:LEU:HD23	2.15	0.47
44:II:296:PHE:CD2	44:II:335:ILE:HG12	2.49	0.47
45:IJ:130:LEU:HD23	45:IJ:132:GLY:N	2.29	0.47
44:IK:208:ALA:HB2	44:IK:304:LYS:N	2.29	0.47
44:IK:387:VAL:HA	44:IK:390:ARG:HG2	1.96	0.47
45:IN:232:ALA:HB1	45:IN:268:ILE:CD1	2.43	0.47
44:JA:224:TYR:CZ	45:JB:323:THR:HG21	2.50	0.47
45:JB:100:ASN:O	45:JB:100:ASN:OD1	2.32	0.47
45:JB:395:LEU:HD11	45:JB:408:PHE:CD2	2.49	0.47
44:JC:174:SER:HA	44:JC:390:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:256:GLN:O	45:JF:397:TRP:NE1	2.47	0.47
44:JC:288:VAL:O	44:JC:291:ILE:HG12	2.15	0.47
44:JC:326:LYS:NZ	45:JF:220:PRO:CD	2.78	0.47
44:JG:19:ALA:CA	44:JG:22:GLU:HG2	2.45	0.47
44:JG:54:SER:HB3	44:JG:64:ARG:NE	2.30	0.47
44:JG:420:GLU:OE2	44:NG:308:ARG:NH1	2.48	0.47
44:JK:51:THR:HG22	44:JK:52:PHE:CE1	2.50	0.47
45:JL:73:MET:HE3	45:JL:92:PHE:HB3	1.96	0.47
45:JL:372:THR:O	45:JL:375:GLN:HG2	2.15	0.47
44:JM:20:CYS:HA	44:JM:232:ALA:CB	2.45	0.47
44:JM:252:ILE:HD12	44:JM:252:ILE:H	1.79	0.47
44:JM:288:VAL:O	44:JM:291:ILE:HG12	2.15	0.47
45:JN:296:ALA:HA	45:JN:305:PRO:HG2	1.96	0.47
45:KB:20:PHE:HE1	45:KB:24:ILE:HD11	1.76	0.47
45:KB:203:ASP:O	45:KB:206:ALA:HB3	2.14	0.47
45:KD:192:LEU:HG	45:KD:196:ALA:HB2	1.96	0.47
44:KE:261:PRO:HG3	45:KH:394:PHE:CZ	2.50	0.47
44:KG:3:GLU:HG2	44:KG:64:ARG:CZ	2.44	0.47
44:KG:325:PRO:HG2	45:KJ:222:TYR:HD2	1.77	0.47
45:KJ:152:ILE:O	45:KJ:155:VAL:HG22	2.14	0.47
44:KK:201:ALA:HB3	44:KK:266:HIS:O	2.15	0.47
44:KK:384:ILE:O	44:KK:387:VAL:HG22	2.14	0.47
44:KK:399:TYR:O	44:KK:402:ARG:NH1	2.47	0.47
44:KM:240:ALA:O	44:KM:356:ASN:ND2	2.48	0.47
44:KM:252:ILE:HD12	44:KM:252:ILE:H	1.79	0.47
45:KN:9:GLY:O	45:KN:13:GLY:HA3	2.14	0.47
45:KN:178:THR:HG22	45:KN:180:VAL:H	1.80	0.47
45:KN:341:PHE:CA	45:KN:349:ILE:HB	2.45	0.47
44:LA:267:PHE:HB3	44:LA:384:ILE:CD1	2.44	0.47
44:LA:288:VAL:HA	44:LA:291:ILE:HG12	1.95	0.47
44:LA:305:CYS:O	44:LA:307:PRO:HD3	2.14	0.47
44:LC:10:GLY:O	44:LC:14:ILE:HG13	2.14	0.47
44:LC:21:TRP:CZ2	44:LC:65:ALA:HB2	2.50	0.47
44:LC:36:MET:HA	44:LC:36:MET:CE	2.45	0.47
44:LC:60:LYS:HZ3	44:MC:283:HIS:HA	1.80	0.47
44:LC:167:LEU:CD2	44:LC:200:VAL:HB	2.44	0.47
45:LD:46:ARG:HG2	45:LD:241:ARG:HA	1.97	0.47
44:LE:124:LYS:NZ	44:ME:297:GLU:OE2	2.26	0.47
44:LE:422:ARG:NH1	44:LE:426:ALA:HB2	2.30	0.47
44:LG:349:THR:O	44:LG:349:THR:HG23	2.14	0.47
45:LH:16:ILE:HD13	45:LH:226:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:32:PRO:HA	45:LH:81:PHE:CE1	2.50	0.47
44:LI:109:THR:HG23	44:LI:110:ILE:HG23	1.97	0.47
45:LJ:11:GLN:CB	45:LJ:72:THR:HG21	2.41	0.47
45:LJ:183:TYR:O	45:LJ:187:LEU:HG	2.14	0.47
45:LJ:265:PHE:HD2	45:LJ:374:ILE:HD11	1.80	0.47
45:LL:406:MET:O	45:LL:409:THR:N	2.47	0.47
44:LM:148:GLY:O	44:LM:152:LEU:HB2	2.15	0.47
45:LN:67:ASP:HB3	45:LN:73:MET:SD	2.55	0.47
44:MA:179:THR:HG23	44:MA:180:ALA:N	2.30	0.47
44:MA:202:VAL:HA	44:MA:268:MET:O	2.14	0.47
45:MD:1:MET:C	45:MD:2:ARG:HG2	2.35	0.47
44:ME:54:SER:HB3	44:ME:64:ARG:NH2	2.30	0.47
44:ME:56:THR:HG22	44:ME:60:LYS:O	2.14	0.47
44:ME:145:THR:HG22	46:ME:501:GTP:PG	2.55	0.47
44:ME:387:VAL:HG23	44:ME:388:PHE:N	2.30	0.47
45:MF:319:GLY:N	45:MF:354:CYS:O	2.46	0.47
44:MG:291:ILE:CG2	44:MG:292:THR:N	2.73	0.47
44:MG:291:ILE:HD13	44:MG:373:ARG:HG3	1.97	0.47
44:MI:301:MET:HG3	44:MI:307:PRO:HG3	1.95	0.47
45:MJ:131:GLN:HA	45:MJ:162:ARG:CZ	2.44	0.47
44:MK:115:VAL:HG22	44:MK:119:LEU:HD23	1.97	0.47
45:ML:174:LYS:HD2	45:ML:175:VAL:CG1	2.29	0.47
44:NA:12:GLY:HA3	44:NA:140:SER:HB3	1.96	0.47
44:NA:317:MET:HB3	44:NA:377:MET:SD	2.55	0.47
44:NA:403:ALA:HB2	45:NB:344:TRP:HZ3	1.79	0.47
44:NC:105:ARG:NH2	45:ND:251:ARG:HD3	2.29	0.47
45:ND:113:ILE:O	45:ND:117:LEU:N	2.46	0.47
45:NF:113:ILE:HG12	45:NF:117:LEU:HD23	1.97	0.47
44:NG:1:MET:CE	45:NJ:70:PRO:HG2	2.44	0.47
44:NG:423:GLU:O	44:NG:426:ALA:HB3	2.15	0.47
45:NH:11:GLN:HB2	45:NH:72:THR:HG21	1.97	0.47
45:NH:371:SER:O	45:NH:422:TYR:OH	2.33	0.47
45:NL:7:ILE:HD13	45:NL:135:ILE:HD11	1.97	0.47
44:NM:115:VAL:O	44:NM:119:LEU:HD23	2.15	0.47
44:NM:291:ILE:HG21	44:NM:373:ARG:HG3	1.97	0.47
44:OA:151:SER:O	44:OA:154:LEU:HB2	2.15	0.47
45:OB:262:ARG:NH1	45:OB:421:GLU:HG2	2.29	0.47
45:OD:3:GLU:OE2	45:OD:127:CYS:HB2	2.15	0.47
45:OD:268:ILE:CG1	45:OD:300:MET:HG2	2.45	0.47
44:OE:93:ILE:HG21	44:OE:117:LEU:CB	2.45	0.47
44:OE:236:SER:HA	44:OE:239:THR:OG1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:394:LYS:HG2	45:OF:346:PRO:CG	2.45	0.47
45:OF:134:GLN:O	45:OF:135:ILE:HD13	2.14	0.47
44:OG:270:SER:HB3	44:OG:378:ILE:HG23	1.97	0.47
45:OH:251:ARG:O	45:OH:254:ALA:HB3	2.14	0.47
45:OH:274:THR:HG21	45:OH:279:GLN:CA	2.45	0.47
45:OH:374:ILE:HD11	45:OH:422:TYR:OH	2.15	0.47
44:OI:205:ASP:CG	44:OI:304:LYS:H	2.16	0.47
44:OK:387:VAL:HG13	44:OK:388:PHE:N	2.29	0.47
45:OL:169:VAL:O	45:OL:169:VAL:HG23	2.15	0.47
44:OM:182:VAL:O	44:OM:182:VAL:HG22	2.15	0.47
45:ON:30:ILE:HA	45:ON:36:TYR:HA	1.97	0.47
45:ON:46:ARG:HG3	45:ON:241:ARG:HA	1.97	0.47
45:ON:190:HIS:O	45:ON:194:GLU:HG2	2.15	0.47
45:ON:415:MET:O	45:ON:419:VAL:N	2.37	0.47
44:PA:135:PHE:HB2	44:PA:166:LYS:HA	1.97	0.47
44:PC:371:VAL:C	44:PC:372:MET:HE2	2.35	0.47
45:PD:262:ARG:NH1	45:PD:418:LEU:HD12	2.30	0.47
44:PE:128:ASN:HD21	44:QE:285:GLN:NE2	2.13	0.47
44:PE:180:ALA:HA	45:PF:256:ASN:ND2	2.23	0.47
44:PE:183:GLU:HA	44:PE:186:ASN:ND2	2.30	0.47
44:PE:241:SER:OG	44:PE:250:VAL:O	2.31	0.47
45:PF:257:LEU:HD21	45:PF:314:SER:HB3	1.96	0.47
45:PF:268:ILE:HG13	45:PF:300:MET:CE	2.41	0.47
45:PF:344:TRP:CE3	45:PF:345:ILE:HB	2.49	0.47
44:PG:208:ALA:HB3	44:PG:302:MET:O	2.15	0.47
44:PG:326:LYS:HG2	45:PJ:220:PRO:HD2	1.97	0.47
44:PG:437:ILE:HG13	44:PG:437:ILE:O	2.15	0.47
45:PH:47:ILE:O	45:PH:51:TYR:HB2	2.15	0.47
45:PH:130:LEU:HB3	45:PH:162:ARG:HD2	1.97	0.47
45:PJ:117:LEU:O	45:PJ:120:VAL:HB	2.14	0.47
45:PJ:145:SER:O	45:PJ:149:THR:HG22	2.14	0.47
44:PK:51:THR:HG21	44:PK:243:ARG:HD3	1.96	0.47
44:PK:265:ILE:HG23	44:PK:432:TYR:HE1	1.74	0.47
44:PM:183:GLU:HG2	44:PM:184:PRO:HD3	1.96	0.47
44:QC:141:VAL:HG11	44:QC:172:TYR:HA	1.97	0.47
44:QC:288:VAL:CG1	44:QC:327:ASP:HB3	2.45	0.47
44:QE:88:HIS:HE1	44:QE:90:GLU:HG2	1.75	0.47
44:QE:185:TYR:HE2	44:QE:404:PHE:HB2	1.79	0.47
44:QE:288:VAL:HA	44:QE:291:ILE:CG1	2.42	0.47
44:QE:328:VAL:HG12	44:QE:332:ILE:HG12	1.96	0.47
45:QH:206:ALA:HB3	45:QH:300:MET:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:141:VAL:HG12	44:QK:171:ILE:O	2.14	0.47
44:QK:232:ALA:O	44:QK:235:ILE:N	2.48	0.47
45:QL:2:ARG:NH2	44:QM:73:THR:HG1	2.13	0.47
45:QN:102:ALA:HB1	45:QN:403:MET:CE	2.45	0.47
45:QN:102:ALA:HB1	45:QN:403:MET:HE3	1.97	0.47
45:QN:302:ALA:HB3	45:QN:377:MET:HE1	1.97	0.47
44:RC:88:HIS:NE2	44:RC:90:GLU:HG2	2.29	0.47
44:RC:145:THR:O	44:RC:149:LEU:HD23	2.15	0.47
45:RD:4:ILE:HG13	45:RD:50:TYR:HE1	1.79	0.47
45:RD:21:TRP:HZ2	45:RD:63:ALA:HB2	1.80	0.47
45:RD:99:ASN:C	45:RD:142:GLY:HA3	2.34	0.47
44:RE:296:PHE:CD1	44:RE:341:ILE:HD13	2.49	0.47
45:RF:313:ALA:HA	45:RF:369:GLY:HA2	1.96	0.47
45:RF:318:ARG:CB	45:RF:358:PRO:HD3	2.45	0.47
45:RH:95:THR:HG21	45:RH:108:GLU:CG	2.42	0.47
45:RH:289:LEU:HD22	45:RH:365:VAL:CG1	2.44	0.47
44:RI:138:PHE:HZ	44:RI:235:ILE:HD12	1.80	0.47
44:RI:183:GLU:HG2	44:RI:184:PRO:HD3	1.96	0.47
45:RJ:374:ILE:HB	45:RJ:378:PHE:HE2	1.79	0.47
45:RL:295:ASP:CG	45:RL:297:LYS:HG2	2.35	0.47
45:RN:28:HIS:HB2	45:RN:30:ILE:HD11	1.96	0.47
44:SA:120:ASP:O	44:SA:123:ARG:HB2	2.15	0.47
44:SA:319:TYR:CB	44:SA:323:VAL:HG11	2.45	0.47
45:SB:387:ALA:O	45:SB:390:ARG:HG2	2.14	0.47
44:SC:206:ASN:O	44:SC:209:ILE:N	2.47	0.47
44:SC:271:SER:C	44:SC:377:MET:HG3	2.35	0.47
44:SC:287:SER:HB3	44:SC:290:GLU:HB2	1.97	0.47
44:SC:311:LYS:HE2	44:SC:342:GLN:NE2	2.29	0.47
45:SD:86:ARG:CZ	45:SD:87:PRO:HD2	2.44	0.47
45:SD:86:ARG:HH21	45:SD:87:PRO:CG	2.28	0.47
45:SD:113:ILE:HA	45:SD:116:VAL:CG1	2.45	0.47
45:SD:229:VAL:O	45:SD:232:ALA:N	2.48	0.47
44:SE:332:ILE:HA	44:SE:335:ILE:HD13	1.95	0.47
45:SF:190:HIS:O	45:SF:193:VAL:HG12	2.15	0.47
44:SG:130:THR:HG23	44:SG:131:GLY:N	2.30	0.47
45:SH:32:PRO:HG3	45:SH:81:PHE:CE1	2.50	0.47
45:SH:309:ARG:HH12	45:SH:342:VAL:CG2	2.28	0.47
45:SH:318:ARG:HA	45:SH:354:CYS:O	2.14	0.47
44:SI:291:ILE:O	44:SI:294:SER:OG	2.33	0.47
44:SI:371:VAL:HG22	44:SI:372:MET:N	2.25	0.47
44:SM:3:GLU:OE1	44:SM:131:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:295:ALA:HB1	44:SM:377:MET:HE2	1.97	0.47
44:SM:396:ASP:OD1	44:SM:422:ARG:NE	2.36	0.47
45:SN:3:GLU:CD	45:SN:129:CYS:H	2.18	0.47
44:TA:153:LEU:O	44:TA:157:LEU:HB2	2.15	0.47
45:TB:386:THR:HG23	45:TB:387:ALA:N	2.30	0.47
44:TC:89:PRO:CD	44:UC:280:LYS:HE2	2.32	0.47
44:TC:175:PRO:HG2	44:TC:304:LYS:CD	2.21	0.47
44:TC:322:ASP:OD1	44:TC:373:ARG:NH1	2.48	0.47
45:TD:92:PHE:C	45:TD:112:LEU:HD11	2.35	0.47
44:TE:11:GLN:CD	44:TE:74:VAL:HG11	2.35	0.47
44:TE:83:TYR:O	44:TE:86:LEU:N	2.48	0.47
44:TE:115:VAL:O	44:TE:119:LEU:HD23	2.14	0.47
44:TE:171:ILE:HG23	44:TE:204:LEU:C	2.34	0.47
44:TE:389:SER:O	44:TE:393:HIS:N	2.42	0.47
45:TF:149:THR:O	45:TF:153:SER:N	2.29	0.47
45:TF:313:ALA:HB1	45:TF:367:PHE:HE1	1.76	0.47
44:TI:255:PHE:C	44:TI:257:THR:H	2.18	0.47
45:TJ:12:CYS:O	45:TJ:16:ILE:HG12	2.15	0.47
45:TJ:134:GLN:O	45:TJ:134:GLN:HG3	2.15	0.47
45:TJ:351:SER:O	45:TJ:352:SER:OG	2.29	0.47
44:TK:13:GLY:HA2	44:TK:16:VAL:CG1	2.40	0.47
44:TM:8:HIS:HB3	44:TM:13:GLY:C	2.35	0.47
45:TN:116:VAL:O	45:TN:119:VAL:HG12	2.15	0.47
45:TN:139:LEU:HA	45:TN:145:SER:HB3	1.97	0.47
44:UA:216:ASN:HB3	44:UA:275:ILE:HG22	1.97	0.47
44:UA:320:ARG:HA	44:UA:356:ASN:O	2.15	0.47
44:UA:405:VAL:HG12	44:UA:409:VAL:HG23	1.97	0.47
45:UB:1:MET:CE	44:UC:96:LYS:HA	2.44	0.47
45:UB:372:THR:HB	45:UB:426:GLN:HB2	1.97	0.47
45:UD:257:LEU:HD11	45:UD:314:SER:HB2	1.96	0.47
45:UD:344:TRP:CE3	44:UE:401:LYS:CE	2.98	0.47
44:UE:172:TYR:HB3	44:UE:173:PRO:HD2	1.97	0.47
44:UE:288:VAL:HB	44:UE:373:ARG:HH12	1.79	0.47
44:UE:370:LYS:HG3	44:UE:370:LYS:O	2.14	0.47
45:UF:178:THR:HG22	45:UF:180:VAL:H	1.79	0.47
45:UF:267:MET:CE	45:UF:299:MET:HG2	2.44	0.47
44:UG:79:ARG:O	44:UG:84:ARG:HG3	2.15	0.47
45:UH:323:THR:HA	45:UH:326:VAL:HG23	1.97	0.47
44:UK:258:ASN:ND2	45:UL:179:VAL:HG22	2.30	0.47
44:UK:296:PHE:HE2	44:UK:335:ILE:HG21	1.79	0.47
44:UM:4:VAL:HG22	44:UM:51:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UM:209:ILE:HG21	44:UM:227:LEU:HD23	1.95	0.47
44:UM:298:PRO:O	44:UM:301:MET:HB2	2.15	0.47
44:VA:407:TRP:CE3	45:VB:255:VAL:HG22	2.50	0.47
44:VC:2:ARG:NH2	44:VC:243:ARG:HA	2.29	0.47
44:VC:51:THR:HB	44:VC:243:ARG:HD3	1.97	0.47
44:VC:88:HIS:HB3	44:VC:91:GLN:HG2	1.97	0.47
44:VC:202:VAL:HG13	44:VC:269:LEU:HA	1.95	0.47
44:VC:250:VAL:HG13	44:VC:250:VAL:O	2.14	0.47
44:VC:414:GLU:O	44:VC:417:GLU:HB2	2.15	0.47
44:VE:344:VAL:HG21	44:VE:346:TRP:NE1	2.30	0.47
45:VF:342:VAL:CG1	45:VF:345:ILE:HD13	2.35	0.47
44:VI:27:GLU:CD	44:VI:243:ARG:HH12	2.18	0.47
45:VJ:139:LEU:HD23	45:VJ:188:SER:OG	2.15	0.47
44:VK:3:GLU:CG	44:VK:129:CYS:HB3	2.44	0.47
44:VK:178:SER:OG	45:VL:347:ASN:HB3	2.15	0.47
44:VK:199:ASP:O	44:VK:266:HIS:HB2	2.14	0.47
44:VK:215:ARG:NH2	44:VK:299:ALA:O	2.48	0.47
44:VK:247:ALA:CB	44:VK:355:ILE:HB	2.33	0.47
44:VK:324:VAL:HG12	44:VK:326:LYS:HG3	1.96	0.47
45:VL:186:THR:HG1	45:VL:385:PHE:HB2	1.79	0.47
45:VL:269:GLY:O	45:VL:366:THR:HA	2.15	0.47
44:VM:104:ALA:HB3	44:VM:411:GLU:CB	2.44	0.47
45:VN:101:TRP:HB3	45:VN:398:TYR:CE2	2.47	0.47
45:VN:210:ILE:HG23	45:VN:214:THR:OG1	2.14	0.47
45:VN:313:ALA:CB	45:VN:349:ILE:HG23	2.45	0.47
44:WA:54:SER:O	44:WA:61:HIS:HA	2.14	0.47
44:WC:22:GLU:HG2	44:WC:23:LEU:N	2.29	0.47
44:WC:169:PHE:CE2	44:WC:235:ILE:HD12	2.50	0.47
45:WD:173:PRO:HG3	45:WD:380:ARG:HD3	1.96	0.47
45:WD:200:MET:HE1	45:WD:368:VAL:HG11	1.97	0.47
44:WE:285:GLN:O	44:WE:286:LEU:HB2	2.14	0.47
45:WF:253:LEU:HD11	45:WF:316:LEU:HD21	1.97	0.47
45:WF:253:LEU:CD2	45:WF:316:LEU:HD11	2.44	0.47
45:WF:396:HIS:HA	45:WF:399:THR:OG1	2.15	0.47
44:WG:175:PRO:HD2	44:WG:207:GLU:OE1	2.14	0.47
44:WG:183:GLU:HG2	44:WG:184:PRO:CD	2.45	0.47
45:WH:274:THR:HB	45:WH:282:ARG:NH1	2.30	0.47
44:WI:132:LEU:HD22	44:WI:164:LYS:CE	2.44	0.47
44:WI:181:VAL:O	44:WI:181:VAL:HG22	2.15	0.47
45:WJ:42:LEU:HD23	45:WJ:45:GLU:OE1	2.15	0.47
44:WK:71:GLU:HG2	44:WK:98:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:326:LYS:C	44:WK:326:LYS:HD2	2.36	0.47
44:WM:215:ARG:NH2	44:WM:300:ASN:OD1	2.48	0.47
44:WM:269:LEU:H	44:WM:269:LEU:HD23	1.80	0.47
45:WN:99:ASN:HA	45:WN:142:GLY:CA	2.39	0.47
1:6H:266:LYS:HZ3	44:FE:364:PRO:N	2.13	0.47
7:0F:51:THR:HG23	44:EE:367:ASP:OD1	2.15	0.47
7:0F:188:ILE:HD11	44:EE:84:ARG:O	2.15	0.47
7:0F:194:PHE:HE1	45:ED:53:GLU:HB2	1.78	0.47
9:0H:352:GLU:HG3	44:GM:58:ALA:CB	2.45	0.47
9:0H:415:PRO:CG	44:GK:58:ALA:HB1	2.43	0.47
10:0N:179:ILE:HD11	45:KN:37:HIS:O	2.14	0.47
15:0V:24:ARG:HH12	44:MM:430:LYS:CG	2.27	0.47
17:1B:220:GLN:HG2	44:KC:221:ARG:O	2.15	0.47
19:1I:162:GLY:HA3	44:KE:244:PHE:CE1	2.50	0.47
20:1J:278:CYS:SG	45:IL:215:LEU:HD22	2.55	0.47
25:1P:392:LYS:HA	44:TA:370:LYS:HZ1	1.70	0.47
26:1R:101:ARG:HH11	44:AC:41:THR:HG21	1.80	0.47
21:2K:245:TRP:CZ3	45:GN:276:ARG:HD2	2.48	0.47
24:2O:322:ARG:HG2	44:VE:365:GLY:H	1.79	0.47
24:2O:322:ARG:NE	44:VE:364:PRO:HA	2.30	0.47
12:2S:101:GLY:HA2	45:MJ:197:ASP:OD1	2.15	0.47
26:3R:463:PHE:O	45:EL:78:ALA:HB1	2.15	0.47
13:3T:229:THR:OG1	44:MK:264:ARG:HD3	2.15	0.47
13:3T:229:THR:OG1	44:MK:431:ASP:OD2	2.33	0.47
31:4H:222:LYS:HG2	44:MK:80:THR:HG21	1.96	0.47
35:4R:249:LEU:CG	44:CE:370:LYS:HE2	2.44	0.47
37:5B:108:ARG:NE	44:KE:393:HIS:CE1	2.83	0.47
37:5D:38:THR:N	44:KK:262:TYR:CB	2.78	0.47
37:5D:107:TYR:CD1	44:NM:217:LEU:O	2.68	0.47
38:5F:54:LYS:HD3	45:OF:227:HIS:CD2	2.48	0.47
38:5G:87:LEU:HB3	38:5G:92:GLN:HB3	1.96	0.47
39:5I:110:LYS:HD2	45:JD:412:GLU:OE2	2.15	0.47
39:5K:25:VAL:CG2	39:5K:28:LYS:HZ3	2.27	0.47
39:5K:94:ILE:O	39:5K:94:ILE:HG22	2.15	0.47
35:5R:373:LEU:H	35:5R:373:LEU:HD23	1.80	0.47
35:5R:431:ILE:CG2	35:5R:502:ARG:HB2	2.45	0.47
40:6F:123:TYR:O	40:6F:124:ARG:CB	2.62	0.47
40:6F:130:SER:H	45:IH:359:LYS:NZ	2.13	0.47
11:6Q:17:ILE:HA	45:WN:125:GLU:OE2	2.14	0.47
35:6R:593:ASP:OD1	35:6R:597:ASN:N	2.47	0.47
35:7R:447:PHE:O	35:7R:452:THR:N	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:472:GLU:N	35:7R:472:GLU:OE1	2.48	0.47
35:7R:537:LYS:O	35:7R:540:THR:HG23	2.14	0.47
44:AA:240:ALA:CB	44:AA:356:ASN:HD22	2.27	0.47
44:AA:319:TYR:HB2	44:AA:354:GLY:O	2.15	0.47
45:AB:208:TYR:CD1	45:AB:225:LEU:HD21	2.49	0.47
45:AB:342:VAL:HG13	45:AB:345:ILE:CG2	2.43	0.47
45:AD:21:TRP:CE3	45:AD:61:PRO:HB3	2.50	0.47
44:AE:204:LEU:HD23	44:AE:302:MET:CG	2.45	0.47
44:AE:311:LYS:HE2	44:AE:311:LYS:HA	1.97	0.47
44:AG:72:PRO:HB2	44:AG:76:ASP:OD2	2.15	0.47
45:AH:130:LEU:HD23	45:AH:162:ARG:HD3	1.96	0.47
44:AI:188:ILE:HG23	44:AI:425:LEU:HD23	1.96	0.47
44:AI:270:SER:HB3	44:AI:378:ILE:HD13	1.97	0.47
45:AL:117:LEU:HA	45:AL:120:VAL:CG1	2.45	0.47
44:AM:422:ARG:O	44:AM:426:ALA:N	2.48	0.47
44:BA:105:ARG:HG2	44:BA:411:GLU:CD	2.35	0.47
44:BA:107:HIS:O	44:BA:107:HIS:ND1	2.44	0.47
44:BA:258:ASN:ND2	44:BA:352:LYS:HB2	2.30	0.47
44:BA:324:VAL:CG1	44:BA:326:LYS:HE2	2.45	0.47
44:BC:181:VAL:HG12	45:BD:256:ASN:HB3	1.97	0.47
45:BD:135:ILE:HD13	45:BD:152:ILE:CD1	2.45	0.47
44:BE:63:PRO:HG3	44:BE:86:LEU:CG	2.43	0.47
44:BE:88:HIS:H	44:BE:91:GLN:NE2	2.13	0.47
44:BE:147:SER:HB2	44:BE:190:SER:HB2	1.96	0.47
44:BE:242:LEU:HD21	44:BE:252:ILE:HG13	1.97	0.47
44:BE:248:LEU:HB3	44:BE:355:ILE:H	1.80	0.47
45:BF:289:LEU:HD12	45:BF:363:MET:CE	2.45	0.47
44:BG:91:GLN:HE22	44:BG:92:LEU:HD21	1.80	0.47
44:BG:318:MET:O	44:BG:375:VAL:HG23	2.15	0.47
44:BK:21:TRP:HZ2	44:BK:65:ALA:HB2	1.80	0.47
44:BK:238:LEU:O	44:BK:238:LEU:HD23	2.14	0.47
44:BK:293:ASN:O	44:BK:297:GLU:HG3	2.15	0.47
44:BM:13:GLY:O	44:BM:16:VAL:HG12	2.15	0.47
45:BN:67:ASP:HA	45:BN:147:MET:HE3	1.96	0.47
45:BN:127:CYS:SG	45:BN:130:LEU:HD13	2.55	0.47
45:BN:282:ARG:HH22	45:BN:292:GLN:HE22	1.62	0.47
44:CA:1:MET:HE2	45:CB:70:PRO:HG3	1.96	0.47
44:CA:258:ASN:O	45:CB:179:VAL:HG21	2.15	0.47
45:CB:58:ARG:HG3	45:CB:58:ARG:O	2.15	0.47
45:CB:72:THR:HG23	45:CB:73:MET:N	2.29	0.47
45:CB:336:LYS:HA	45:CB:336:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:35:THR:O	45:CD:37:HIS:CD2	2.67	0.47
45:CD:143:THR:OG1	45:CD:144:GLY:N	2.48	0.47
45:CD:268:ILE:HG22	45:CD:368:VAL:HA	1.96	0.47
45:CF:72:THR:O	45:CF:76:VAL:HG12	2.15	0.47
45:CF:255:VAL:HA	44:CG:407:TRP:HZ3	1.80	0.47
44:CG:132:LEU:O	44:CG:132:LEU:HG	2.14	0.47
45:CH:42:LEU:HA	45:CH:45:GLU:CD	2.34	0.47
45:CH:181:GLU:O	45:CH:185:ALA:HB2	2.14	0.47
45:CH:229:VAL:O	45:CH:233:MET:HG3	2.14	0.47
44:CI:257:THR:HA	45:CJ:397:TRP:NE1	2.29	0.47
45:CL:316:LEU:HA	45:CL:352:SER:HG	1.79	0.47
45:CL:322:SER:HB3	44:CM:221:ARG:CD	2.44	0.47
44:CM:115:VAL:HG23	44:CM:153:LEU:HD21	1.96	0.47
45:CN:275:SER:O	45:CN:279:GLN:HG3	2.15	0.47
44:DA:258:ASN:HD22	44:DA:352:LYS:HD3	1.80	0.47
44:DC:326:LYS:HD2	44:DC:327:ASP:N	2.30	0.47
45:DD:113:ILE:HG12	45:DD:154:LYS:NZ	2.30	0.47
44:DE:288:VAL:HG21	44:DE:327:ASP:HB3	1.96	0.47
44:DE:322:ASP:OD1	44:DE:373:ARG:NH1	2.48	0.47
45:DF:60:VAL:HG21	45:EF:281:TYR:CD1	2.50	0.47
45:DF:197:ASP:O	45:DF:264:HIS:HB2	2.14	0.47
45:DF:291:GLN:NE2	45:DF:292:GLN:HB2	2.30	0.47
44:DG:405:VAL:HG12	44:DG:409:VAL:CG2	2.41	0.47
44:DI:13:GLY:O	44:DI:16:VAL:HG12	2.15	0.47
44:DI:308:ARG:HD3	44:DI:340:THR:HG22	1.95	0.47
44:DI:318:MET:SD	44:DI:354:GLY:HA3	2.55	0.47
45:DJ:289:LEU:HD11	45:DJ:363:MET:SD	2.55	0.47
44:DK:135:PHE:O	44:DK:166:LYS:HA	2.14	0.47
44:DK:168:GLY:O	44:DK:201:ALA:HA	2.14	0.47
45:DL:214:THR:HB	45:DL:273:LEU:CB	2.45	0.47
45:DL:267:MET:HB2	45:DL:301:CYS:SG	2.55	0.47
44:DM:36:MET:CG	44:DM:37:PRO:HD2	2.44	0.47
44:DM:413:MET:HG2	44:DM:417:GLU:HG3	1.96	0.47
45:DN:44:LEU:HD23	45:DN:47:ILE:CD1	2.45	0.47
45:DN:134:GLN:HA	45:DN:165:GLU:O	2.15	0.47
44:EC:151:SER:OG	44:EC:193:SER:HB3	2.15	0.47
45:ED:169:VAL:O	45:ED:169:VAL:HG23	2.15	0.47
45:EF:28:HIS:C	45:EF:43:GLN:HE21	2.15	0.47
45:EF:272:PRO:HA	45:EF:292:GLN:OE1	2.15	0.47
44:EG:172:TYR:HD2	44:EG:203:MET:HE2	1.80	0.47
45:EH:97:ALA:HA	45:EH:103:LYS:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:250:VAL:HG21	44:EI:318:MET:HE3	1.97	0.47
45:EJ:217:LEU:CD1	45:EJ:220:PRO:HG3	2.44	0.47
44:EK:1:MET:N	44:EK:2:ARG:NH1	2.63	0.47
44:EK:200:VAL:HG13	44:EK:268:MET:SD	2.55	0.47
45:EL:105:HIS:CE1	45:EL:150:LEU:HD12	2.50	0.47
45:EL:293:MET:CE	45:EL:367:PHE:HD1	2.27	0.47
44:EM:298:PRO:HA	44:EM:301:MET:HG2	1.96	0.47
45:EN:116:VAL:O	45:EN:116:VAL:HG22	2.15	0.47
45:FB:237:THR:OG1	45:FB:240:LEU:HD22	2.15	0.47
45:FB:247:ASN:O	45:FB:252:LYS:HE2	2.15	0.47
44:FC:93:ILE:HG23	44:FC:117:LEU:HD23	1.97	0.47
44:FC:221:ARG:CD	45:FD:325:GLU:OE2	2.61	0.47
44:FE:321:GLY:O	44:FE:357:TYR:HA	2.15	0.47
45:FF:143:THR:HG23	45:FF:144:GLY:N	2.30	0.47
44:FG:79:ARG:O	44:FG:84:ARG:HB3	2.14	0.47
45:FH:73:MET:HA	45:FH:76:VAL:HG12	1.96	0.47
44:FI:166:LYS:C	44:FI:167:LEU:HD12	2.36	0.47
44:FI:270:SER:HB3	44:FI:378:ILE:HD13	1.95	0.47
44:FK:47:ASP:OD2	44:FK:50:ASN:HB2	2.15	0.47
44:FK:270:SER:O	44:FK:302:MET:HB2	2.14	0.47
44:FK:311:LYS:HD2	44:FK:342:GLN:CG	2.42	0.47
45:FL:202:ILE:HD12	45:FL:300:MET:CB	2.45	0.47
45:FL:313:ALA:CB	45:FL:349:ILE:HG12	2.45	0.47
44:FM:261:PRO:HD2	44:FM:313:MET:HE1	1.96	0.47
45:FN:42:LEU:HD12	45:FN:42:LEU:H	1.80	0.47
45:FN:86:ARG:HH12	45:GN:281:TYR:HB2	1.79	0.47
45:FN:374:ILE:HG13	45:FN:378:PHE:HE2	1.80	0.47
45:GB:387:ALA:O	45:GB:390:ARG:HG2	2.13	0.47
44:GC:166:LYS:C	44:GC:167:LEU:HD22	2.36	0.47
44:GC:306:ASP:HB3	44:GC:309:HIS:ND1	2.29	0.47
44:GC:313:MET:SD	44:GC:346:TRP:CZ2	3.08	0.47
45:GD:137:HIS:CD2	45:GD:139:LEU:HD12	2.49	0.47
45:GD:278:SER:O	45:GD:281:TYR:HB2	2.14	0.47
44:GE:166:LYS:C	44:GE:167:LEU:HD12	2.34	0.47
44:GE:183:GLU:HA	44:GE:186:ASN:OD1	2.15	0.47
44:GE:270:SER:C	44:GE:302:MET:HE3	2.35	0.47
45:GF:155:VAL:HG13	45:GF:156:ARG:HG3	1.97	0.47
45:GH:101:TRP:HB2	45:GH:184:ASN:HB3	1.95	0.47
45:GH:316:LEU:CD2	45:GH:352:SER:HB2	2.39	0.47
45:GJ:132:GLY:HA3	45:GJ:163:ILE:HG13	1.95	0.47
44:GK:270:SER:O	44:GK:302:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:279:GLU:HB3	44:GK:280:LYS:HD3	1.96	0.47
45:GL:21:TRP:CH2	45:GL:61:PRO:HB3	2.50	0.47
44:GM:223:THR:HA	45:GN:322:SER:CB	2.43	0.47
45:GN:269:GLY:HA3	45:GN:367:PHE:HB3	1.97	0.47
45:GN:309:ARG:O	45:GN:372:THR:HG23	2.15	0.47
44:HA:276:ILE:HD13	44:HA:281:ALA:HA	1.96	0.47
45:HB:267:MET:SD	45:HB:374:ILE:HG22	2.54	0.47
45:HB:287:PRO:CA	45:HB:290:THR:HG22	2.43	0.47
44:HC:72:PRO:HG3	44:HC:95:GLY:O	2.15	0.47
44:HE:181:VAL:CG1	45:HF:256:ASN:HA	2.45	0.47
44:HE:205:ASP:CG	44:HE:304:LYS:H	2.18	0.47
45:HF:295:ASP:OD2	45:HF:297:LYS:HE2	2.14	0.47
44:HG:101:ASN:HA	44:HG:144:GLY:CA	2.44	0.47
44:HG:329:ASN:ND2	45:HJ:175:VAL:HB	2.30	0.47
45:HH:282:ARG:HG2	45:HH:283:ALA:N	2.30	0.47
44:HI:258:ASN:ND2	44:HI:352:LYS:HD3	2.30	0.47
45:HJ:201:VAL:C	45:HJ:202:ILE:HD13	2.35	0.47
45:HJ:350:LYS:HG2	45:HJ:351:SER:N	2.30	0.47
45:HJ:404:ASP:OD1	45:HJ:407:GLU:HG3	2.15	0.47
45:HL:268:ILE:HG22	45:HL:368:VAL:CA	2.40	0.47
45:HN:372:THR:O	45:HN:375:GLN:HG2	2.15	0.47
44:IA:210:TYR:CE1	44:IA:227:LEU:HD21	2.49	0.47
44:IA:243:ARG:HG3	44:IA:244:PHE:CE2	2.49	0.47
44:IA:312:TYR:CE1	44:IA:381:SER:HB3	2.50	0.47
44:IA:394:LYS:CB	44:IA:398:MET:HE1	2.39	0.47
45:IB:42:LEU:CA	45:IB:45:GLU:HG3	2.41	0.47
44:IC:114:ILE:HG22	44:IC:114:ILE:O	2.14	0.47
44:IC:255:PHE:O	44:IC:259:LEU:HD13	2.14	0.47
45:ID:13:GLY:CA	45:ID:137:HIS:HA	2.39	0.47
45:ID:239:CYS:SG	45:ID:248:SER:OG	2.54	0.47
44:IE:400:ALA:C	44:IE:401:LYS:HD3	2.35	0.47
45:IF:86:ARG:NH2	45:IF:87:PRO:HD2	2.30	0.47
44:IG:215:ARG:CZ	44:IG:299:ALA:HB1	2.44	0.47
44:IG:257:THR:HG21	45:IJ:100:ASN:HD21	1.79	0.47
44:IG:378:ILE:O	44:IG:378:ILE:HG13	2.14	0.47
45:IH:404:ASP:OD1	45:IH:406:MET:HB2	2.15	0.47
44:II:333:ALA:O	44:II:336:LYS:HG2	2.15	0.47
44:II:335:ILE:HG21	44:II:351:PHE:HE2	1.80	0.47
45:IJ:101:TRP:HB3	45:IJ:398:TYR:HE2	1.79	0.47
45:IJ:236:VAL:HG23	45:IJ:253:LEU:CD2	2.44	0.47
45:IJ:359:LYS:HD2	45:IJ:359:LYS:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:103:PHE:HB3	44:IK:408:TYR:HE2	1.80	0.47
44:IK:251:ASP:O	44:IK:254:GLU:N	2.47	0.47
44:IK:253:THR:O	44:IK:257:THR:HG23	2.15	0.47
45:IL:36:TYR:OH	45:IL:44:LEU:HD21	2.15	0.47
44:IM:141:VAL:HG22	44:IM:187:SER:CA	2.40	0.47
44:IM:187:SER:HA	44:IM:190:SER:OG	2.15	0.47
45:IN:42:LEU:HD23	45:IN:356:ILE:HD11	1.96	0.47
45:IN:345:ILE:O	45:IN:345:ILE:HG23	2.15	0.47
44:JA:305:CYS:HA	44:JA:386:GLU:OE2	2.14	0.47
44:JA:311:LYS:HD3	44:JA:342:GLN:HG3	1.97	0.47
44:JA:329:ASN:HB3	45:JD:175:VAL:HG12	1.97	0.47
45:JB:269:GLY:HA2	45:JB:300:MET:CE	2.45	0.47
45:JD:334:GLN:HB2	45:JD:349:ILE:CD1	2.45	0.47
45:JD:372:THR:HA	45:JD:422:TYR:HE2	1.76	0.47
45:JF:258:ILE:HG13	45:JF:266:PHE:CZ	2.45	0.47
44:JG:244:PHE:HE2	44:JG:358:GLN:HG2	1.79	0.47
44:JI:317:MET:HE2	44:JI:375:VAL:HG21	1.96	0.47
45:JJ:376:GLU:HA	45:JJ:379:LYS:HE2	1.96	0.47
44:JK:7:ILE:O	44:JK:137:VAL:HA	2.13	0.47
44:JK:145:THR:HG23	44:JK:146:GLY:N	2.30	0.47
44:JK:175:PRO:HB2	44:JK:176:GLN:OE1	2.14	0.47
44:JK:363:VAL:O	44:JK:363:VAL:HG23	2.14	0.47
44:JM:244:PHE:HB2	44:JM:356:ASN:ND2	2.26	0.47
45:JN:237:THR:CG2	45:JN:241:ARG:HE	2.28	0.47
45:JN:242:PHE:HB3	45:JN:356:ILE:HG13	1.95	0.47
45:KB:374:ILE:HG12	45:KB:377:MET:HE1	1.95	0.47
44:KC:100:ALA:O	45:KD:255:VAL:HG21	2.15	0.47
45:KD:144:GLY:N	48:KD:501:GDP:O1B	2.48	0.47
45:KH:285:THR:CG2	45:KH:287:PRO:HD2	2.43	0.47
44:KI:113:GLU:OE1	44:KI:113:GLU:N	2.48	0.47
45:KJ:216:LYS:HD2	45:KJ:275:SER:CB	2.44	0.47
45:KJ:286:VAL:HB	45:KJ:287:PRO:HD3	1.97	0.47
45:KJ:317:PHE:HE2	45:KJ:326:VAL:HG22	1.80	0.47
44:KK:5:ILE:CG2	44:KK:125:LEU:HD23	2.45	0.47
44:KK:12:GLY:O	44:KK:16:VAL:HG13	2.14	0.47
44:KK:187:SER:OG	44:KK:391:LEU:HD23	2.15	0.47
44:KK:277:SER:O	44:KK:281:ALA:HB2	2.15	0.47
44:KK:311:LYS:HD3	44:KK:342:GLN:HG2	1.97	0.47
45:KN:5:VAL:HG22	45:KN:6:HIS:N	2.29	0.47
44:LA:271:SER:HB3	44:LA:377:MET:HB3	1.97	0.47
44:LC:102:ASN:O	44:LC:105:ARG:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LE:54:SER:HA	44:LE:64:ARG:NH2	2.30	0.47
44:LE:105:ARG:HD2	45:LF:251:ARG:HH21	1.78	0.47
44:LE:119:LEU:HD11	44:LE:156:ARG:CG	2.43	0.47
44:LE:358:GLN:HG3	44:LE:359:PRO:HD2	1.96	0.47
45:LF:8:GLN:OE1	45:LF:17:GLY:HA3	2.14	0.47
45:LF:68:LEU:HD12	45:LF:143:THR:HB	1.96	0.47
45:LF:177:ASP:O	45:LF:178:THR:OG1	2.27	0.47
45:LF:215:LEU:HD23	45:LF:215:LEU:C	2.36	0.47
45:LH:383:GLU:HA	45:LH:386:THR:HG22	1.97	0.47
44:LI:31:GLN:CD	44:LI:37:PRO:HG3	2.35	0.47
44:LK:285:GLN:HE21	44:LK:287:SER:HB2	1.79	0.47
45:LL:102:ALA:HB2	45:LL:403:MET:HE2	1.95	0.47
44:LM:188:ILE:HD12	44:LM:425:LEU:HD11	1.97	0.47
45:LN:130:LEU:HD21	45:LN:133:PHE:HE1	1.74	0.47
45:LN:174:LYS:HD3	45:LN:174:LYS:H	1.80	0.47
45:MB:107:THR:HG23	45:MB:108:GLU:N	2.30	0.47
44:MC:137:VAL:O	44:MC:168:GLY:HA2	2.15	0.47
44:MC:325:PRO:O	44:MC:328:VAL:HB	2.15	0.47
44:ME:221:ARG:HG2	45:MF:321:MET:CE	2.43	0.47
44:ME:224:TYR:HB3	46:ME:501:GTP:O6	2.14	0.47
44:ME:269:LEU:HD22	44:ME:433:GLU:HB2	1.97	0.47
45:MF:16:ILE:HD11	45:MF:229:VAL:CG1	2.40	0.47
45:MF:28:HIS:HB2	45:MF:30:ILE:CD1	2.45	0.47
45:MF:42:LEU:H	45:MF:42:LEU:CD2	2.21	0.47
45:MF:295:ASP:OD1	45:MF:296:ALA:N	2.48	0.47
44:MG:179:THR:HG1	44:MG:211:ASP:N	2.12	0.47
44:MG:268:MET:HB3	44:MG:380:ASN:HB2	1.97	0.47
44:MI:68:LEU:HD21	44:MI:118:CYS:SG	2.54	0.47
45:MJ:52:ASN:CG	45:MJ:53:GLU:H	2.18	0.47
44:MK:172:TYR:HB2	44:MK:203:MET:HE3	1.96	0.47
44:MK:210:TYR:CD1	45:ML:324:LYS:HD2	2.50	0.47
45:ML:177:ASP:N	45:ML:181:GLU:OE2	2.42	0.47
45:ML:270:PHE:O	45:ML:298:ASN:ND2	2.47	0.47
44:MM:224:TYR:HA	44:MM:227:LEU:CD1	2.42	0.47
44:MM:344:VAL:HG11	44:MM:346:TRP:CE2	2.50	0.47
44:NA:72:PRO:HG2	45:NB:1:MET:SD	2.55	0.47
45:NB:15:GLN:HG3	45:NB:16:ILE:N	2.30	0.47
45:NB:314:SER:OG	45:NB:368:VAL:O	2.30	0.47
45:NB:372:THR:O	45:NB:375:GLN:HG3	2.14	0.47
44:NC:13:GLY:HA2	44:NC:16:VAL:HG12	1.95	0.47
44:NC:144:GLY:O	44:NC:147:SER:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:291:ILE:HG13	44:NC:292:THR:N	2.30	0.47
45:ND:190:HIS:CD2	45:ND:414:ASN:HD22	2.33	0.47
44:NE:174:SER:HB2	44:NE:177:VAL:HG23	1.97	0.47
44:NE:291:ILE:HD12	44:NE:375:VAL:CG2	2.44	0.47
44:NG:257:THR:O	44:NG:258:ASN:ND2	2.41	0.47
45:NH:374:ILE:HG12	45:NH:422:TYR:OH	2.15	0.47
44:NI:326:LYS:CE	45:NL:219:THR:HG22	2.45	0.47
44:NK:65:ALA:HB3	44:NK:87:PHE:HE1	1.79	0.47
44:NK:268:MET:HG3	44:NK:269:LEU:H	1.80	0.47
45:NL:31:ASP:HB2	45:NL:32:PRO:CD	2.44	0.47
45:NL:242:PHE:HB3	45:NL:243:PRO:CD	2.44	0.47
45:NL:248:SER:OG	45:NL:252:LYS:HB3	2.15	0.47
44:NM:27:GLU:CG	44:NM:361:THR:HG21	2.35	0.47
44:NM:288:VAL:HG22	44:NM:373:ARG:NH2	2.29	0.47
44:NM:393:HIS:O	44:NM:397:LEU:HG	2.15	0.47
45:NN:68:LEU:HG	45:NN:96:GLY:CA	2.45	0.47
45:NN:103:LYS:O	45:NN:108:GLU:HB2	2.15	0.47
44:OA:109:THR:HG21	44:OA:411:GLU:OE1	2.15	0.47
44:OA:439:THR:HA	45:OD:391:ARG:NH2	2.30	0.47
44:OC:195:LEU:O	44:OC:266:HIS:NE2	2.46	0.47
44:OC:292:THR:HG21	44:OC:331:SER:CB	2.44	0.47
45:OD:221:THR:O	45:OD:224:ASP:HB2	2.15	0.47
44:OE:89:PRO:CD	44:PE:280:LYS:HD2	2.44	0.47
44:OE:270:SER:HB2	44:OE:378:ILE:CD1	2.45	0.47
45:OF:4:ILE:HD11	45:OF:50:TYR:OH	2.15	0.47
44:OG:362:VAL:HG23	44:OG:368:LEU:CB	2.44	0.47
44:OG:426:ALA:O	44:OG:429:GLU:HB3	2.15	0.47
45:OH:97:ALA:O	45:OH:103:LYS:HE3	2.15	0.47
44:OI:262:TYR:HE1	45:OL:393:ALA:HA	1.77	0.47
45:OJ:253:LEU:O	45:OJ:257:LEU:HD13	2.14	0.47
44:OK:101:ASN:C	44:OK:144:GLY:HA3	2.34	0.47
44:OK:145:THR:HG22	46:OL:501:GTP:O3B	2.15	0.47
44:OK:182:VAL:C	44:OK:184:PRO:HD2	2.34	0.47
44:OK:264:ARG:HH11	44:OK:264:ARG:HG3	1.80	0.47
44:OK:362:VAL:HG23	44:OK:368:LEU:HB2	1.96	0.47
45:OL:172:SER:HB3	45:OL:203:ASP:CG	2.35	0.47
45:OL:396:HIS:CE1	45:OL:397:TRP:NE1	2.83	0.47
44:OM:137:VAL:HG23	44:OM:137:VAL:O	2.15	0.47
44:OM:319:TYR:CD2	44:OM:375:VAL:HB	2.50	0.47
45:ON:32:PRO:HG3	45:ON:81:PHE:CE1	2.49	0.47
45:ON:117:LEU:O	45:ON:121:ARG:N	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:217:LEU:HA	45:ON:276:ARG:HH12	1.79	0.47
45:ON:252:LYS:HD3	45:ON:350:LYS:HE2	1.96	0.47
44:PA:67:PHE:HB2	44:PA:92:LEU:HG	1.96	0.47
44:PA:208:ALA:HB2	44:PA:304:LYS:N	2.29	0.47
45:PB:8:GLN:OE1	45:PB:17:GLY:HA3	2.15	0.47
45:PB:50:TYR:CA	45:PB:62:ARG:HH21	2.27	0.47
44:PC:21:TRP:O	44:PC:24:PHE:HB2	2.14	0.47
45:PD:34:GLY:HA3	45:PD:58:ARG:HG2	1.97	0.47
45:PD:317:PHE:HB2	45:PD:353:ILE:CG1	2.31	0.47
44:PE:439:THR:HG21	45:PH:390:ARG:HD2	1.96	0.47
45:PF:9:GLY:HA2	45:PF:66:MET:O	2.14	0.47
45:PH:134:GLN:HA	45:PH:165:GLU:O	2.14	0.47
44:PI:261:PRO:HG3	45:PL:394:PHE:CD1	2.49	0.47
45:PJ:7:ILE:HA	45:PJ:64:ILE:HB	1.97	0.47
45:PJ:24:ILE:HD11	45:PJ:28:HIS:CE1	2.49	0.47
45:PJ:207:LEU:HD13	45:PJ:225:LEU:HD22	1.96	0.47
45:PJ:311:LEU:HA	45:PJ:342:VAL:CG1	2.45	0.47
44:PK:181:VAL:HG23	44:PK:182:VAL:HG23	1.97	0.47
44:PK:301:MET:HG3	44:PK:307:PRO:HD3	1.97	0.47
44:PM:1:MET:C	44:PM:2:ARG:HD3	2.35	0.47
44:PM:280:LYS:HD3	44:PM:283:HIS:ND1	2.30	0.47
44:PM:316:SER:O	44:PM:378:ILE:N	2.47	0.47
45:PN:73:MET:SD	45:PN:74:ASP:N	2.88	0.47
44:QA:298:PRO:HB3	44:QA:307:PRO:HD2	1.97	0.47
44:QA:317:MET:CE	44:QA:375:VAL:HG23	2.45	0.47
44:QA:321:GLY:O	44:QA:357:TYR:HA	2.15	0.47
44:QA:352:LYS:HD3	45:QB:178:THR:HA	1.96	0.47
45:QB:269:GLY:HA3	45:QB:299:MET:HE1	1.97	0.47
45:QD:345:ILE:HG23	45:QD:345:ILE:O	2.14	0.47
44:QE:6:SER:O	44:QE:7:ILE:HD13	2.14	0.47
44:QE:56:THR:HG22	44:QE:60:LYS:O	2.15	0.47
45:QF:86:ARG:HE	45:QF:87:PRO:CD	2.28	0.47
45:QF:213:ARG:NH2	45:QF:297:LYS:HE2	2.29	0.47
45:QF:238:CYS:HB2	45:QF:318:ARG:CZ	2.44	0.47
45:QF:243:PRO:HA	44:QG:73:THR:CG2	2.45	0.47
45:QH:206:ALA:HA	45:QH:209:ASP:HB3	1.97	0.47
44:QK:35:GLN:CD	44:QK:35:GLN:H	2.18	0.47
44:QK:85:GLN:C	44:QK:86:LEU:HD22	2.36	0.47
44:QK:167:LEU:HD21	44:QK:255:PHE:CE2	2.49	0.47
44:QK:268:MET:HB2	44:QK:379:SER:O	2.15	0.47
45:QL:256:ASN:C	45:QL:257:LEU:HD12	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:378:PHE:CB	45:QL:419:VAL:HG11	2.45	0.47
44:QM:243:ARG:NH2	44:QM:244:PHE:CE2	2.82	0.47
45:QN:34:GLY:O	45:QN:58:ARG:HA	2.15	0.47
44:RA:5:ILE:HA	44:RA:64:ARG:O	2.15	0.47
44:RA:64:ARG:HH11	44:RA:64:ARG:HG3	1.80	0.47
44:RA:174:SER:HB3	44:RA:175:PRO:CD	2.45	0.47
45:RD:154:LYS:O	45:RD:158:GLU:N	2.48	0.47
45:RD:173:PRO:HD2	45:RD:380:ARG:HH11	1.80	0.47
44:RE:105:ARG:NE	44:RE:110:ILE:HD13	2.30	0.47
44:RE:222:PRO:HA	44:RE:226:ASN:OD1	2.15	0.47
45:RF:238:CYS:SG	45:RF:318:ARG:NE	2.88	0.47
45:RF:304:ASP:OD1	45:RF:306:ARG:HG2	2.15	0.47
44:RG:156:ARG:O	44:RG:159:VAL:HG12	2.14	0.47
44:RG:229:ARG:HB2	44:RG:229:ARG:CZ	2.44	0.47
44:RG:229:ARG:HG3	44:RG:229:ARG:HH11	1.80	0.47
44:RG:288:VAL:H	44:RG:373:ARG:HD3	1.80	0.47
44:RG:291:ILE:HG13	44:RG:292:THR:H	1.80	0.47
44:RG:317:MET:HE1	44:RG:377:MET:SD	2.55	0.47
45:RH:67:ASP:HB3	45:RH:73:MET:CG	2.44	0.47
45:RH:139:LEU:CD1	45:RH:168:SER:HB3	2.44	0.47
45:RJ:183:TYR:CE1	45:RJ:388:MET:HB3	2.50	0.47
45:RJ:259:PRO:C	44:RK:406:HIS:HE2	2.16	0.47
45:RJ:286:VAL:HA	45:RJ:289:LEU:CB	2.40	0.47
45:RJ:326:VAL:O	45:RJ:330:MET:HG3	2.15	0.47
45:RJ:374:ILE:HB	45:RJ:378:PHE:CE2	2.50	0.47
45:RJ:403:MET:CE	45:RJ:407:GLU:OE2	2.63	0.47
44:RK:322:ASP:OD1	44:RK:373:ARG:NH1	2.47	0.47
45:RL:268:ILE:HG22	45:RL:368:VAL:HG13	1.97	0.47
45:RL:293:MET:CB	45:RL:365:VAL:HG11	2.45	0.47
45:RN:117:LEU:HB2	45:RN:120:VAL:CG2	2.45	0.47
44:SA:276:ILE:HG12	44:SA:281:ALA:HB2	1.96	0.47
45:SB:97:ALA:HB2	45:SB:143:THR:HG23	1.97	0.47
45:SB:309:ARG:HD2	45:SB:341:PHE:C	2.35	0.47
44:SC:35:GLN:HG2	44:SC:60:LYS:CG	2.44	0.47
44:SC:53:PHE:HB3	44:SC:61:HIS:CB	2.41	0.47
44:SC:236:SER:OG	44:SC:243:ARG:NH2	2.47	0.47
44:SC:272:TYR:CD1	44:SC:376:CYS:HB2	2.49	0.47
45:SD:169:VAL:HA	45:SD:202:ILE:O	2.15	0.47
45:SD:172:SER:N	45:SD:173:PRO:CD	2.77	0.47
44:SE:277:SER:O	44:SE:281:ALA:N	2.48	0.47
44:SE:289:ALA:O	44:SE:292:THR:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:69:ASP:OD1	44:SI:70:LEU:N	2.47	0.47
44:SI:183:GLU:O	44:SI:187:SER:HB3	2.15	0.47
44:SI:383:ALA:O	44:SI:386:GLU:HG2	2.15	0.47
45:SJ:66:MET:CE	45:SJ:151:LEU:HD13	2.45	0.47
45:SJ:146:GLY:O	45:SJ:149:THR:HG22	2.14	0.47
45:SJ:323:THR:O	45:SJ:326:VAL:HB	2.15	0.47
44:SK:19:ALA:CB	44:SK:228:ASN:HB3	2.45	0.47
45:SL:248:SER:OG	45:SL:253:LEU:HD12	2.14	0.47
44:SM:273:ALA:HB3	44:SM:375:VAL:CG1	2.45	0.47
44:SM:429:GLU:O	44:SM:432:TYR:HB2	2.14	0.47
45:SN:242:PHE:CD1	45:SN:356:ILE:HG12	2.50	0.47
44:TA:164:LYS:O	44:TA:166:LYS:NZ	2.48	0.47
44:TA:272:TYR:HE1	44:TA:320:ARG:HH12	1.63	0.47
45:TD:164:MET:N	45:TD:197:ASP:OD2	2.48	0.47
45:TD:164:MET:CA	45:TD:197:ASP:HB2	2.44	0.47
45:TD:264:HIS:O	45:TD:264:HIS:ND1	2.46	0.47
44:TE:258:ASN:HD21	45:TF:178:THR:HA	1.80	0.47
45:TF:319:GLY:O	45:TF:355:ASP:HA	2.14	0.47
45:TF:413:SER:HG	45:TF:414:ASN:H	1.63	0.47
44:TG:85:GLN:O	44:TG:85:GLN:CD	2.53	0.47
44:TG:172:TYR:HB3	44:TG:173:PRO:HD2	1.97	0.47
45:TH:69:GLU:OE2	45:TH:72:THR:N	2.48	0.47
45:TH:123:GLU:OE1	45:TH:123:GLU:HA	2.15	0.47
44:TI:172:TYR:CE2	44:TI:203:MET:CE	2.98	0.47
44:TI:175:PRO:HD2	44:TI:207:GLU:OE1	2.14	0.47
44:TI:306:ASP:OD2	44:TI:309:HIS:NE2	2.48	0.47
45:TJ:51:TYR:CE1	45:TJ:61:PRO:HG3	2.44	0.47
45:TJ:69:GLU:OE2	45:TJ:72:THR:HG22	2.13	0.47
45:TJ:200:MET:CE	45:TJ:266:PHE:HB2	2.45	0.47
45:TJ:231:ALA:O	45:TJ:234:SER:OG	2.21	0.47
45:TJ:330:MET:CE	45:TJ:349:ILE:HG22	2.43	0.47
45:TL:163:ILE:CD1	45:TL:250:LEU:HB2	2.44	0.47
45:TL:310:TYR:CE1	45:TL:371:SER:HB2	2.50	0.47
45:TL:315:ALA:HB3	45:TL:351:SER:HA	1.97	0.47
44:TM:65:ALA:HB1	44:TM:67:PHE:CE1	2.50	0.47
44:TM:286:LEU:HA	44:TM:290:GLU:OE2	2.15	0.47
44:TM:422:ARG:NH1	44:TM:426:ALA:HB2	2.30	0.47
44:UA:55:GLU:HG3	44:UA:57:GLY:H	1.80	0.47
44:UC:210:TYR:HE1	44:UC:227:LEU:CD1	2.26	0.47
44:UC:301:MET:CE	44:UC:307:PRO:HD3	2.44	0.47
44:UC:325:PRO:HB2	45:UD:208:TYR:OH	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:113:ILE:HD13	45:UD:150:LEU:HD22	1.95	0.47
45:UD:276:ARG:NH1	45:UD:276:ARG:HB2	2.29	0.47
44:UE:91:GLN:NE2	44:UE:125:LEU:HD11	2.30	0.47
44:UE:189:LEU:O	44:UE:192:HIS:HB3	2.15	0.47
44:UE:346:TRP:O	44:UE:348:PRO:HD3	2.14	0.47
45:UH:12:CYS:SG	45:UH:138:SER:OG	2.73	0.47
44:UI:19:ALA:HA	44:UI:22:GLU:OE1	2.15	0.47
44:UI:182:VAL:C	44:UI:184:PRO:HD2	2.34	0.47
45:UJ:32:PRO:HG3	45:UJ:81:PHE:CE1	2.50	0.47
44:UK:135:PHE:HB2	44:UK:166:LYS:NZ	2.30	0.47
44:UK:402:ARG:C	44:UK:405:VAL:HG23	2.35	0.47
45:UL:350:LYS:HD2	44:UM:180:ALA:CB	2.45	0.47
45:UL:396:HIS:HA	45:UL:399:THR:OG1	2.15	0.47
44:UM:67:PHE:O	44:UM:68:LEU:HD12	2.15	0.47
45:UN:257:LEU:CD1	45:UN:314:SER:HB2	2.17	0.47
44:VA:93:ILE:HD12	44:VA:93:ILE:H	1.80	0.47
45:VB:130:LEU:HD23	45:VB:162:ARG:CG	2.20	0.47
45:VB:192:LEU:HG	45:VB:196:ALA:CB	2.44	0.47
45:VB:313:ALA:HB3	45:VB:348:ASN:O	2.15	0.47
45:VD:49:VAL:CG1	45:VD:241:ARG:HD3	2.45	0.47
45:VD:289:LEU:HD13	45:VD:365:VAL:CG2	2.44	0.47
44:VE:172:TYR:HB3	44:VE:173:PRO:HD2	1.96	0.47
44:VE:363:VAL:HG23	44:VE:364:PRO:HD2	1.97	0.47
44:VE:396:ASP:OD2	44:VE:422:ARG:NH2	2.40	0.47
45:VF:245:GLN:C	45:VF:246:LEU:HD12	2.35	0.47
45:VH:309:ARG:N	45:VH:372:THR:HG1	2.13	0.47
45:VL:2:ARG:NH2	45:VL:240:LEU:O	2.42	0.47
45:VL:345:ILE:O	45:VL:345:ILE:HG23	2.15	0.47
44:VM:54:SER:HB3	44:VM:64:ARG:CZ	2.45	0.47
44:VM:88:HIS:CE1	44:VM:89:PRO:HD2	2.50	0.47
44:VM:164:LYS:HB2	44:VM:166:LYS:NZ	2.30	0.47
45:VN:133:PHE:CD2	45:VN:155:VAL:HG11	2.50	0.47
45:VN:221:THR:O	45:VN:225:LEU:HG	2.15	0.47
45:VN:399:THR:HA	45:VN:403:MET:HB2	1.95	0.47
44:WA:122:ILE:HD12	44:WA:122:ILE:H	1.79	0.47
44:WA:284:GLU:HB2	44:WA:286:LEU:HD22	1.95	0.47
44:WA:306:ASP:HB3	44:WA:309:HIS:CE1	2.50	0.47
44:WA:315:CYS:CB	44:WA:379:SER:HB3	2.45	0.47
44:WA:386:GLU:HA	44:WA:389:SER:OG	2.15	0.47
45:WB:135:ILE:CG1	45:WB:166:THR:HG22	2.45	0.47
45:WB:345:ILE:HG23	45:WB:345:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:75:ILE:HG23	44:WC:92:LEU:HD23	1.96	0.47
44:WC:334:THR:O	44:WC:337:THR:HB	2.14	0.47
45:WD:418:LEU:O	45:WD:422:TYR:HB2	2.15	0.47
44:WE:110:ILE:HA	44:WE:113:GLU:OE1	2.15	0.47
44:WE:348:PRO:HG2	45:WH:384:GLN:CD	2.36	0.47
44:WG:56:THR:HG23	44:WG:58:ALA:N	2.20	0.47
44:WG:85:GLN:O	44:WG:86:LEU:HD22	2.15	0.47
45:WJ:324:LYS:O	45:WJ:327:ASP:HB2	2.15	0.47
45:WL:60:VAL:O	45:WL:60:VAL:HG13	2.15	0.47
45:WL:124:ALA:O	45:WL:130:LEU:HD21	2.15	0.47
44:WM:239:THR:HA	44:WM:242:LEU:HD12	1.97	0.47
45:WN:1:MET:HE1	45:WN:128:ASP:HB3	1.96	0.47
45:WN:16:ILE:HD12	45:WN:229:VAL:CB	2.45	0.47
45:WN:162:ARG:HB3	45:WN:164:MET:CE	2.45	0.47
45:WN:398:TYR:HB2	45:WN:408:PHE:HZ	1.79	0.47
45:WN:405:GLU:O	45:WN:408:PHE:HB2	2.14	0.47
2:1A:59:ALA:HB1	45:MF:1:MET:CE	2.45	0.47
9:1H:90:ARG:CZ	44:HK:279:GLU:HA	2.45	0.47
20:1J:111:TYR:HB3	45:HF:53:GLU:CD	2.35	0.47
20:1J:154:VAL:CG1	45:IH:215:LEU:HD12	2.44	0.47
20:1J:180:ALA:HA	44:IG:221:ARG:HG3	1.88	0.47
11:1Q:116:PRO:HG3	44:AC:263:PRO:HG2	1.91	0.47
14:1U:226:ILE:HG21	44:WC:41:THR:O	2.15	0.47
28:2C:65:PHE:CE2	44:LI:33:ASP:HB2	2.50	0.47
32:2I:96:TRP:HA	45:FF:125:GLU:HG3	1.97	0.47
26:2R:289:ASN:N	45:DH:218:THR:HG22	2.30	0.47
2:3A:150:LEU:CA	35:6R:78:ILE:HD11	2.44	0.47
24:3O:246:GLU:CG	45:UN:276:ARG:HG3	2.45	0.47
26:3R:29:LYS:HZ1	44:MK:47:ASP:HB3	1.76	0.47
13:3T:83:GLN:OE1	44:MK:412:GLY:HA2	2.15	0.47
15:3V:101:ILE:HG13	44:LA:416:GLY:HA2	1.96	0.47
15:3V:141:ASN:HD22	44:LC:402:ARG:HB3	1.78	0.47
16:4X:8:TYR:HB2	44:LI:357:TYR:CD1	2.48	0.47
37:5D:53:PRO:CD	44:KK:437:ILE:HB	2.44	0.47
38:5E:212:THR:HG22	45:LF:391:ARG:HE	1.80	0.47
38:5F:164:LYS:HG2	38:5F:165:PRO:CD	2.33	0.47
38:5G:164:LYS:HG2	38:5G:165:PRO:CD	2.34	0.47
38:5H:49:ASP:O	38:5H:50:GLU:HB3	2.15	0.47
11:5Q:102:ARG:HH22	44:AK:430:LYS:CD	2.28	0.47
35:5R:82:GLN:OE1	35:5R:87:LYS:HB2	2.16	0.47
35:5R:260:VAL:CG2	35:5R:276:LEU:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:481:ASN:HB2	35:5R:483:LYS:HZ3	1.80	0.47
40:6F:19:SER:O	40:6F:20:THR:CB	2.62	0.47
40:6F:92:LYS:HZ3	40:6F:96:GLU:HB3	1.80	0.47
35:6R:20:HIS:CE1	44:LK:357:TYR:CE1	3.03	0.47
35:6R:261:LEU:HD12	35:6R:273:TYR:CE1	2.50	0.47
35:7R:340:VAL:HG12	35:7R:347:CYS:O	2.14	0.47
35:7R:587:THR:O	35:7R:590:ARG:HB3	2.14	0.47
44:AA:141:VAL:CG2	44:AA:172:TYR:HA	2.44	0.47
45:AB:316:LEU:N	45:AB:366:THR:O	2.46	0.47
45:AD:272:PRO:HB3	45:AD:289:LEU:CD2	2.44	0.47
44:AE:141:VAL:CG1	44:AE:172:TYR:HA	2.45	0.47
44:AG:139:ASN:OD1	44:AG:170:THR:HG22	2.15	0.47
45:AH:132:GLY:HA3	45:AH:163:ILE:HG22	1.97	0.47
45:AH:139:LEU:HD23	45:AH:188:SER:OG	2.15	0.47
45:AJ:256:ASN:HD22	45:AJ:350:LYS:CE	2.24	0.47
44:AK:265:ILE:HD12	44:AK:432:TYR:CD1	2.50	0.47
44:AK:319:TYR:CE2	44:AK:328:VAL:HG22	2.50	0.47
44:AK:405:VAL:HG12	44:AK:405:VAL:O	2.15	0.47
45:AL:309:ARG:H	45:AL:372:THR:HG1	1.59	0.47
45:AN:5:VAL:HG22	45:AN:133:PHE:CD1	2.50	0.47
45:AN:318:ARG:CZ	45:AN:358:PRO:HG2	2.45	0.47
45:AN:323:THR:HA	45:AN:326:VAL:HG22	1.97	0.47
44:BA:232:ALA:HA	44:BA:235:ILE:HD13	1.97	0.47
44:BA:288:VAL:CA	44:BA:373:ARG:HH21	2.28	0.47
44:BA:386:GLU:HA	44:BA:389:SER:OG	2.15	0.47
44:BC:109:THR:OG1	44:BC:411:GLU:OE1	2.15	0.47
44:BC:118:CYS:O	44:BC:122:ILE:HG12	2.14	0.47
45:BD:232:ALA:CB	45:BD:270:PHE:HB2	2.45	0.47
44:BE:172:TYR:CE2	44:BE:203:MET:CE	2.98	0.47
44:BG:54:SER:HB3	44:BG:64:ARG:NH2	2.29	0.47
44:BG:275:ILE:O	44:BG:275:ILE:CG2	2.63	0.47
44:BG:294:SER:HA	44:BG:297:GLU:CG	2.42	0.47
44:BM:406:HIS:NE2	45:BN:260:PHE:HA	2.29	0.47
45:BN:51:TYR:CE1	45:BN:61:PRO:HG3	2.45	0.47
45:BN:173:PRO:CD	45:BN:380:ARG:HD3	2.45	0.47
45:CB:101:TRP:HB3	45:CB:398:TYR:HE1	1.79	0.47
45:CB:377:MET:O	45:CB:380:ARG:HG2	2.15	0.47
44:CC:169:PHE:HE2	44:CC:235:ILE:HD12	1.79	0.47
44:CC:317:MET:HE3	44:CC:375:VAL:CG2	2.45	0.47
44:CE:7:ILE:HB	44:CE:137:VAL:HG12	1.96	0.47
45:CF:135:ILE:HG13	45:CF:152:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CI:88:HIS:HB3	44:CI:91:GLN:HG2	1.95	0.47
44:CI:278:ALA:N	44:CI:369:ALA:HB2	2.30	0.47
45:CJ:12:CYS:CB	45:CJ:138:SER:HB2	2.45	0.47
45:CJ:16:ILE:HD13	45:CJ:226:ASN:OD1	2.15	0.47
45:CJ:156:ARG:HD3	45:CJ:195:ASN:O	2.15	0.47
44:CK:7:ILE:HB	44:CK:136:LEU:O	2.15	0.47
44:CK:257:THR:HB	45:CL:397:TRP:CZ2	2.50	0.47
44:CK:320:ARG:HG2	44:CK:356:ASN:HB3	1.94	0.47
44:CM:256:GLN:HB2	44:CM:260:VAL:CG2	2.45	0.47
44:CM:258:ASN:HD21	44:CM:352:LYS:HD3	1.79	0.47
44:DA:212:ILE:CG2	44:DA:275:ILE:HD12	2.41	0.47
44:DA:238:LEU:O	44:DA:238:LEU:HD23	2.15	0.47
44:DA:270:SER:O	44:DA:302:MET:HB2	2.14	0.47
44:DA:318:MET:HA	44:DA:318:MET:CE	2.45	0.47
45:DB:73:MET:HG3	45:DB:90:PHE:HD1	1.80	0.47
45:DB:135:ILE:N	45:DB:165:GLU:O	2.48	0.47
45:DB:257:LEU:HB3	45:DB:266:PHE:CZ	2.50	0.47
44:DC:99:ALA:HB3	44:DC:145:THR:HB	1.96	0.47
44:DC:346:TRP:HD1	45:DD:391:ARG:HG3	1.77	0.47
45:DD:58:ARG:NH2	45:ED:281:TYR:HE1	2.12	0.47
45:DD:62:ARG:HG3	45:DD:62:ARG:O	2.15	0.47
44:DE:13:GLY:O	44:DE:16:VAL:HG22	2.15	0.47
44:DE:141:VAL:HG22	44:DE:187:SER:HA	1.97	0.47
44:DE:229:ARG:HH11	44:DE:229:ARG:HG2	1.79	0.47
44:DE:346:TRP:HB3	45:DF:391:ARG:HG3	1.96	0.47
45:DF:322:SER:HB3	44:DG:221:ARG:HD2	1.96	0.47
44:DG:63:PRO:HG2	44:DG:86:LEU:CD2	2.45	0.47
45:DH:192:LEU:HD21	45:DH:199:CYS:SG	2.55	0.47
45:DH:266:PHE:CE1	45:DH:370:ASN:HB2	2.50	0.47
44:DI:27:GLU:CD	44:DI:243:ARG:HH12	2.18	0.47
44:DI:132:LEU:HD22	44:DI:164:LYS:HZ1	1.80	0.47
44:DI:268:MET:CB	44:DI:380:ASN:HB2	2.44	0.47
45:DJ:47:ILE:HG22	45:DJ:51:TYR:HB2	1.97	0.47
45:DJ:142:GLY:N	48:DJ:501:GDP:O2B	2.48	0.47
45:DJ:286:VAL:HG13	45:DJ:321:MET:HE3	1.96	0.47
44:DK:115:VAL:HG11	44:DK:152:LEU:CD2	2.38	0.47
44:DK:267:PHE:CE1	44:DK:428:LEU:HD21	2.50	0.47
45:DL:134:GLN:HA	45:DL:165:GLU:O	2.14	0.47
45:DL:312:THR:HA	45:DL:348:ASN:HB2	1.97	0.47
44:DM:204:LEU:HD23	44:DM:302:MET:HE3	1.97	0.47
45:EB:135:ILE:HB	45:EB:166:THR:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:183:GLU:CG	44:EC:184:PRO:HD3	2.45	0.47
45:ED:117:LEU:HD13	45:ED:154:LYS:CD	2.45	0.47
45:ED:276:ARG:HG3	45:ED:277:GLY:H	1.80	0.47
45:ED:377:MET:HA	45:ED:380:ARG:CD	2.44	0.47
44:EE:207:GLU:O	44:EE:210:TYR:HB2	2.15	0.47
44:EE:233:GLN:HE22	44:EE:360:PRO:HB2	1.80	0.47
44:EE:307:PRO:HB3	44:EE:312:TYR:OH	2.15	0.47
45:EF:9:GLY:CA	45:EF:66:MET:HG3	2.41	0.47
45:EF:209:ASP:HB3	45:EF:213:ARG:HH12	1.79	0.47
45:EF:253:LEU:HD21	45:EF:316:LEU:CD1	2.44	0.47
44:EG:417:GLU:HA	44:EG:420:GLU:HG2	1.97	0.47
45:EH:183:TYR:O	45:EH:187:LEU:HG	2.15	0.47
45:EH:328:GLU:O	45:EH:331:LEU:HB3	2.15	0.47
44:EI:9:VAL:HG11	44:EI:150:GLY:CA	2.45	0.47
44:EI:191:THR:HG21	44:EI:425:LEU:HD11	1.95	0.47
44:EK:1:MET:N	44:EK:2:ARG:HH11	2.13	0.47
44:EK:183:GLU:N	44:EK:184:PRO:CD	2.77	0.47
45:EL:9:GLY:HA2	45:EL:66:MET:CG	2.45	0.47
45:EL:11:GLN:HG3	45:EL:72:THR:CB	2.45	0.47
45:EL:314:SER:HA	45:EL:350:LYS:CB	2.43	0.47
45:EL:319:GLY:C	45:EL:355:ASP:HA	2.35	0.47
44:EM:137:VAL:HG13	44:EM:168:GLY:HA2	1.96	0.47
44:EM:206:ASN:O	44:EM:209:ILE:N	2.47	0.47
44:EM:325:PRO:O	44:EM:328:VAL:HB	2.14	0.47
45:EN:55:THR:HG23	45:FN:283:ALA:CA	2.27	0.47
44:FA:7:ILE:N	44:FA:136:LEU:O	2.46	0.47
44:FA:189:LEU:O	44:FA:192:HIS:HB3	2.14	0.47
44:FA:277:SER:O	44:FA:281:ALA:HB2	2.14	0.47
45:FB:149:THR:HG23	45:FB:150:LEU:N	2.30	0.47
45:FB:269:GLY:O	45:FB:367:PHE:N	2.37	0.47
45:FB:284:LEU:HB2	45:FB:362:LYS:NZ	2.30	0.47
44:FC:115:VAL:HG22	44:FC:119:LEU:HD23	1.96	0.47
44:FC:413:MET:HE2	44:FC:413:MET:HA	1.97	0.47
44:FC:439:THR:HG21	45:FF:390:ARG:HD2	1.95	0.47
44:FE:141:VAL:HG12	44:FE:171:ILE:O	2.15	0.47
44:FE:145:THR:HG22	46:FE:501:GTP:PG	2.55	0.47
44:FI:105:ARG:HA	44:FI:109:THR:HG21	1.96	0.47
44:FI:370:LYS:O	44:FI:370:LYS:HG3	2.15	0.47
45:FL:3:GLU:CB	45:FL:49:VAL:HG13	2.45	0.47
45:FL:20:PHE:HD1	45:FL:233:MET:HE3	1.80	0.47
44:FM:53:PHE:HA	44:FM:62:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:74:VAL:HG23	44:FM:75:ILE:HG12	1.97	0.47
44:FM:217:LEU:HD13	44:FM:367:ASP:HB3	1.96	0.47
45:FN:72:THR:HG23	45:FN:73:MET:N	2.30	0.47
45:FN:252:LYS:HG2	45:FN:350:LYS:HE3	1.96	0.47
44:GA:16:VAL:HG11	44:GA:231:ILE:HG21	1.97	0.47
44:GA:171:ILE:HD13	46:GB:501:GTP:HN22	1.79	0.47
44:GA:188:ILE:HD12	44:GA:425:LEU:CD1	2.44	0.47
45:GB:245:GLN:C	45:GB:246:LEU:HD12	2.35	0.47
45:GB:263:LEU:HG	45:GB:422:TYR:CD1	2.50	0.47
44:GC:278:ALA:HB2	44:GC:369:ALA:HB2	1.97	0.47
45:GD:42:LEU:HA	45:GD:45:GLU:HG3	1.97	0.47
45:GD:112:LEU:O	45:GD:112:LEU:HD23	2.15	0.47
45:GD:167:PHE:CD1	45:GD:200:MET:HB2	2.50	0.47
45:GD:200:MET:HE2	45:GD:268:ILE:CG2	2.45	0.47
45:GF:61:PRO:HD2	45:GF:86:ARG:NH1	2.29	0.47
45:GF:117:LEU:CA	45:GF:120:VAL:HG12	2.45	0.47
44:GG:2:ARG:O	44:GG:51:THR:HA	2.14	0.47
44:GG:101:ASN:OD1	45:GH:252:LYS:HG3	2.15	0.47
44:GG:189:LEU:HD23	44:GG:421:ALA:HB2	1.97	0.47
45:GH:52:ASN:OD1	45:GH:53:GLU:N	2.43	0.47
45:GH:248:SER:HB2	45:GH:252:LYS:HD2	1.97	0.47
44:GI:224:TYR:HA	44:GI:227:LEU:HB2	1.97	0.47
44:GI:288:VAL:HG21	44:GI:327:ASP:HB3	1.96	0.47
44:GI:311:LYS:CD	44:GI:342:GLN:HG3	2.41	0.47
45:GJ:105:HIS:O	45:GJ:105:HIS:ND1	2.48	0.47
45:GJ:143:THR:N	48:GJ:502:GDP:O2B	2.47	0.47
44:GK:54:SER:OG	44:GK:62:VAL:HG12	2.14	0.47
45:GL:226:ASN:OD1	45:GL:227:HIS:N	2.48	0.47
45:GL:345:ILE:O	45:GL:345:ILE:HG23	2.14	0.47
44:GM:202:VAL:HG13	44:GM:268:MET:O	2.14	0.47
44:GM:216:ASN:ND2	44:GM:275:ILE:O	2.47	0.47
44:HA:242:LEU:HD11	44:HA:252:ILE:HG13	1.97	0.47
45:HB:1:MET:C	45:HB:2:ARG:HG2	2.35	0.47
45:HB:113:ILE:CD1	45:HB:150:LEU:HD22	2.45	0.47
45:HB:163:ILE:CD1	45:HB:250:LEU:HB3	2.43	0.47
45:HB:259:PRO:CG	45:HB:263:LEU:HD22	2.41	0.47
44:HC:298:PRO:HA	44:HC:301:MET:CE	2.38	0.47
44:HC:362:VAL:O	44:HC:362:VAL:HG13	2.15	0.47
45:HD:21:TRP:CZ2	45:HD:63:ALA:HB2	2.50	0.47
45:HD:289:LEU:HD13	45:HD:365:VAL:HG11	1.97	0.47
44:HE:407:TRP:HH2	45:HF:254:ALA:HB1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:258:ILE:HD11	45:HH:266:PHE:CZ	2.50	0.47
45:HJ:77:ARG:HG2	45:HJ:90:PHE:CZ	2.50	0.47
45:HJ:318:ARG:CB	45:HJ:358:PRO:HD3	2.36	0.47
44:HK:408:TYR:HB3	44:HK:413:MET:CE	2.45	0.47
44:HM:36:MET:O	44:HM:36:MET:HG3	2.15	0.47
44:HM:150:GLY:HA2	44:HM:153:LEU:HB2	1.97	0.47
44:HM:296:PHE:HE2	44:HM:335:ILE:HG13	1.80	0.47
45:HN:215:LEU:HD21	45:HN:273:LEU:HD22	1.96	0.47
45:IB:356:ILE:HD12	45:IB:356:ILE:N	2.30	0.47
44:IC:288:VAL:HB	44:IC:373:ARG:HD3	1.96	0.47
45:ID:97:ALA:HB3	45:ID:143:THR:HB	1.97	0.47
45:ID:377:MET:HA	45:ID:380:ARG:CG	2.45	0.47
45:IF:10:GLY:O	45:IF:14:ASN:N	2.43	0.47
45:IF:68:LEU:HD11	45:IF:108:GLU:HG2	1.92	0.47
45:IF:286:VAL:HG23	45:IF:287:PRO:HD3	1.94	0.47
44:IG:1:MET:SD	45:IJ:70:PRO:HG2	2.55	0.47
45:IH:49:VAL:CG1	45:IH:241:ARG:HG2	2.37	0.47
45:IH:116:VAL:O	45:IH:119:VAL:HG12	2.15	0.47
44:IK:172:TYR:CE2	44:IK:203:MET:CE	2.98	0.47
44:IK:390:ARG:HG3	44:IK:391:LEU:H	1.80	0.47
45:IL:141:GLY:O	45:IL:145:SER:HB3	2.15	0.47
44:IM:13:GLY:CA	44:IM:16:VAL:HG12	2.45	0.47
44:IM:25:CYS:O	44:IM:30:ILE:HG22	2.15	0.47
44:IM:166:LYS:NZ	44:IM:166:LYS:HB2	2.30	0.47
45:JD:46:ARG:O	45:JD:49:VAL:HG12	2.15	0.47
45:JD:202:ILE:HD13	45:JD:229:VAL:HG22	1.97	0.47
44:JE:56:THR:HG23	44:JE:58:ALA:H	1.80	0.47
44:JE:362:VAL:O	44:JE:362:VAL:HG13	2.15	0.47
45:JF:5:VAL:HG22	45:JF:133:PHE:CD1	2.50	0.47
45:JF:52:ASN:HD21	45:JF:62:ARG:NH1	2.13	0.47
44:JG:223:THR:HG22	44:JG:226:ASN:HB2	1.96	0.47
44:JG:419:SER:O	44:JG:423:GLU:HG3	2.15	0.47
45:JH:217:LEU:HD21	45:JH:220:PRO:CB	2.32	0.47
44:JI:267:PHE:HB3	44:JI:384:ILE:HD13	1.97	0.47
45:JJ:198:GLU:OE2	45:JJ:254:ALA:HB2	2.14	0.47
44:JM:311:LYS:HD2	44:JM:343:PHE:O	2.15	0.47
45:JN:81:PHE:CD2	45:JN:84:LEU:HD11	2.50	0.47
45:JN:236:VAL:O	45:JN:316:LEU:HD22	2.15	0.47
45:JN:310:TYR:HD2	45:JN:341:PHE:HE1	1.62	0.47
44:KA:51:THR:HG22	44:KA:52:PHE:CD2	2.49	0.47
44:KA:384:ILE:O	44:KA:384:ILE:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:256:GLN:O	45:KF:397:TRP:CZ3	2.68	0.47
44:KC:319:TYR:CZ	44:KC:328:VAL:HG23	2.49	0.47
45:KD:58:ARG:HH12	45:KD:86:ARG:CZ	2.28	0.47
44:KE:1:MET:SD	44:KE:2:ARG:N	2.88	0.47
44:KE:184:PRO:O	44:KE:188:ILE:HG12	2.15	0.47
45:KF:136:THR:HG22	45:KF:167:PHE:HB2	1.97	0.47
45:KF:173:PRO:CG	45:KF:380:ARG:HD2	2.45	0.47
44:KG:252:ILE:HA	44:KG:255:PHE:CD2	2.50	0.47
44:KK:123:ARG:NH2	44:LK:338:LYS:HE3	2.30	0.47
45:KL:4:ILE:HG13	45:KL:4:ILE:O	2.14	0.47
45:KL:169:VAL:O	45:KL:169:VAL:HG23	2.13	0.47
44:KM:111:GLY:O	44:KM:114:ILE:HG22	2.15	0.47
45:KN:269:GLY:HA2	45:KN:300:MET:HE1	1.97	0.47
44:LA:272:TYR:CE2	44:LA:275:ILE:HD11	2.47	0.47
45:LB:14:ASN:O	45:LB:17:GLY:N	2.49	0.47
45:LD:252:LYS:O	45:LD:255:VAL:HG12	2.15	0.47
45:LF:2:ARG:CZ	45:LF:240:LEU:HG	2.44	0.47
44:LG:294:SER:HA	44:LG:297:GLU:HG3	1.96	0.47
45:LH:12:CYS:CB	45:LH:138:SER:HB2	2.44	0.47
45:LH:173:PRO:HG3	45:LH:380:ARG:NE	2.29	0.47
45:LH:293:MET:HE3	45:LH:294:PHE:HE1	1.78	0.47
45:LH:382:ALA:HB2	45:LH:415:MET:CE	2.46	0.47
44:LI:21:TRP:HA	44:LI:24:PHE:HB2	1.96	0.47
44:LI:255:PHE:HE2	44:LI:316:SER:OG	1.97	0.47
45:LJ:69:GLU:CG	45:LJ:96:GLY:HA2	2.38	0.47
45:LJ:73:MET:HE3	45:LJ:92:PHE:HB3	1.95	0.47
45:LJ:105:HIS:CD2	45:LJ:150:LEU:HD21	2.50	0.47
45:LJ:121:ARG:NH2	45:LJ:158:GLU:OE2	2.47	0.47
45:LJ:292:GLN:NE2	45:LJ:298:ASN:HB2	2.30	0.47
44:LK:37:PRO:HD2	44:LK:40:LYS:HG2	1.96	0.47
44:LK:258:ASN:ND2	44:LK:352:LYS:HD2	2.29	0.47
45:LL:267:MET:HG3	45:LL:299:MET:HE1	1.96	0.47
44:LM:320:ARG:CB	44:LM:356:ASN:HB3	2.45	0.47
44:LM:429:GLU:HG2	44:LM:430:LYS:N	2.30	0.47
45:LN:130:LEU:CD2	45:LN:162:ARG:HE	2.13	0.47
44:MA:156:ARG:HG2	44:MA:156:ARG:HH11	1.80	0.47
44:MC:277:SER:O	44:MC:281:ALA:N	2.48	0.47
45:MD:98:GLY:O	45:MD:99:ASN:OD1	2.32	0.47
45:MD:240:LEU:HD12	45:MD:240:LEU:O	2.14	0.47
45:MF:66:MET:HE1	45:MF:147:MET:SD	2.54	0.47
45:MF:174:LYS:HB2	45:MF:205:GLU:OE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:330:MET:HE3	45:MF:333:VAL:CG1	2.45	0.47
44:MG:276:ILE:O	44:MG:369:ALA:HB3	2.15	0.47
44:MG:291:ILE:HG13	44:MG:292:THR:N	2.30	0.47
45:MJ:304:ASP:CG	45:MJ:306:ARG:HG2	2.35	0.47
44:MM:102:ASN:OD1	44:MM:105:ARG:HG3	2.14	0.47
45:MN:238:CYS:SG	45:MN:239:CYS:N	2.87	0.47
44:NA:115:VAL:HG21	44:NA:152:LEU:CD2	2.45	0.47
45:NB:135:ILE:O	45:NB:167:PHE:N	2.37	0.47
45:NB:248:SER:OG	45:NB:316:LEU:HD21	2.15	0.47
44:NC:271:SER:HA	44:NC:302:MET:HE2	1.97	0.47
44:NE:54:SER:HB3	44:NE:64:ARG:CZ	2.44	0.47
44:NE:96:LYS:O	45:NF:1:MET:HE2	2.15	0.47
44:NE:290:GLU:OE1	44:NE:290:GLU:N	2.45	0.47
44:NE:406:HIS:HE1	45:NF:260:PHE:HA	1.78	0.47
45:NF:20:PHE:CZ	45:NF:24:ILE:HG13	2.50	0.47
45:NF:258:ILE:HG22	45:NF:260:PHE:O	2.14	0.47
44:NG:151:SER:O	44:NG:155:GLU:HG3	2.15	0.47
45:NH:49:VAL:CG2	45:NH:241:ARG:HG2	2.42	0.47
45:NH:58:ARG:HH12	45:OH:280:GLN:NE2	2.10	0.47
44:NI:271:SER:CB	44:NI:377:MET:HE2	2.43	0.47
45:NJ:330:MET:HE3	45:NJ:349:ILE:HG21	1.97	0.47
45:NJ:374:ILE:HG22	45:NJ:422:TYR:HE1	1.80	0.47
45:NJ:398:TYR:HB3	45:NJ:403:MET:HE3	1.97	0.47
44:NK:71:GLU:OE1	45:NL:247:ASN:ND2	2.29	0.47
44:NK:260:VAL:O	44:NK:260:VAL:HG23	2.15	0.47
45:NL:396:HIS:CA	45:NL:399:THR:HG22	2.39	0.47
44:NM:189:LEU:HD23	44:NM:421:ALA:HB2	1.96	0.47
45:OB:268:ILE:HG13	45:OB:300:MET:HE3	1.97	0.47
45:OB:287:PRO:CA	45:OB:290:THR:HG22	2.41	0.47
44:OC:104:ALA:CB	44:OC:411:GLU:HB3	2.45	0.47
45:OD:4:ILE:HG22	45:OD:132:GLY:H	1.80	0.47
45:OD:286:VAL:HG21	45:OD:325:GLU:CG	2.45	0.47
44:OE:169:PHE:HD1	44:OE:202:VAL:HB	1.80	0.47
45:OF:178:THR:H	45:OF:181:GLU:CD	2.18	0.47
45:OF:207:LEU:CA	45:OF:210:ILE:HG22	2.45	0.47
44:OG:284:GLU:HG3	44:OG:285:GLN:N	2.30	0.47
44:OG:288:VAL:CA	44:OG:291:ILE:HG12	2.43	0.47
44:OI:199:ASP:O	44:OI:266:HIS:HB2	2.15	0.47
45:OJ:294:PHE:CE2	45:OJ:333:VAL:HG21	2.49	0.47
45:OL:47:ILE:O	45:OL:51:TYR:HB2	2.15	0.47
45:OL:290:THR:O	45:OL:293:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:372:THR:HA	45:OL:422:TYR:HE2	1.78	0.47
44:OM:292:THR:HG21	44:OM:331:SER:HB3	1.96	0.47
44:OM:315:CYS:SG	44:OM:379:SER:HB3	2.55	0.47
45:ON:210:ILE:O	45:ON:214:THR:HB	2.14	0.47
45:ON:329:GLN:O	45:ON:333:VAL:HG23	2.16	0.47
44:PA:175:PRO:HB2	44:PA:176:GLN:OE1	2.15	0.47
44:PA:386:GLU:HA	44:PA:389:SER:OG	2.14	0.47
44:PC:169:PHE:HB3	44:PC:204:LEU:HD11	1.97	0.47
44:PC:425:LEU:HD23	44:PC:428:LEU:HD23	1.96	0.47
45:PD:20:PHE:CE1	45:PD:24:ILE:HD11	2.49	0.47
45:PD:152:ILE:HG21	45:PD:192:LEU:HD12	1.96	0.47
45:PD:319:GLY:N	45:PD:357:PRO:HB3	2.30	0.47
45:PD:372:THR:HA	45:PD:422:TYR:HE2	1.79	0.47
44:PE:259:LEU:HD12	44:PE:259:LEU:O	2.14	0.47
45:PF:116:VAL:HA	45:PF:119:VAL:HG12	1.96	0.47
44:PG:248:LEU:HB3	44:PG:355:ILE:N	2.29	0.47
44:PG:249:ASN:OD1	44:PG:250:VAL:N	2.48	0.47
44:PG:347:CYS:HA	45:PJ:388:MET:SD	2.55	0.47
45:PH:105:HIS:CG	45:PH:150:LEU:HD21	2.50	0.47
45:PH:318:ARG:HD3	45:PH:358:PRO:CG	2.45	0.47
44:PI:73:THR:OG1	45:PJ:46:ARG:NH2	2.49	0.47
44:PI:145:THR:OG1	46:PI:501:GTP:O1B	2.30	0.47
44:PK:202:VAL:CG1	44:PK:203:MET:N	2.78	0.47
45:PL:158:GLU:C	45:PL:159:TYR:HD1	2.18	0.47
44:PM:19:ALA:HA	44:PM:22:GLU:OE1	2.13	0.47
44:PM:110:ILE:HG13	44:PM:111:GLY:N	2.30	0.47
44:PM:190:SER:O	44:PM:194:LEU:HG	2.15	0.47
44:PM:419:SER:O	44:PM:423:GLU:HG2	2.15	0.47
45:PN:110:ALA:HA	45:PN:113:ILE:CG2	2.45	0.47
45:PN:127:CYS:SG	45:PN:130:LEU:HD13	2.55	0.47
45:PN:314:SER:OG	45:PN:350:LYS:HG2	2.15	0.47
44:QA:62:VAL:HG22	44:RA:283:HIS:HB3	1.97	0.47
44:QA:326:LYS:HE2	45:QB:220:PRO:HD2	1.97	0.47
45:QD:238:CYS:HB2	45:QD:318:ARG:HE	1.78	0.47
44:QE:206:ASN:HD21	46:QE:501:GTP:H2'	1.79	0.47
44:QE:383:ALA:O	44:QE:386:GLU:HG2	2.15	0.47
44:QE:384:ILE:HG22	44:QE:388:PHE:CE2	2.50	0.47
44:QG:231:ILE:O	44:QG:235:ILE:N	2.46	0.47
44:QG:386:GLU:O	44:QG:390:ARG:HG2	2.15	0.47
44:QK:234:VAL:HG13	44:QK:376:CYS:SG	2.55	0.47
45:QL:21:TRP:CA	45:QL:24:ILE:HG22	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:260:PHE:HE1	44:QM:403:ALA:CB	2.28	0.47
44:QM:138:PHE:HE1	44:QM:169:PHE:HB2	1.77	0.47
44:QM:141:VAL:HG22	44:QM:187:SER:CA	2.43	0.47
45:QN:211:CYS:O	45:QN:215:LEU:HB2	2.15	0.47
45:QN:217:LEU:HD12	45:QN:217:LEU:O	2.14	0.47
44:RA:119:LEU:O	44:RA:119:LEU:HD23	2.15	0.47
44:RC:2:ARG:O	44:RC:51:THR:HA	2.15	0.47
44:RC:161:TYR:HD2	44:RC:164:LYS:HG3	1.80	0.47
44:RC:262:TYR:HH	45:RD:391:ARG:HB3	1.78	0.47
45:RD:318:ARG:N	45:RD:364:ALA:O	2.42	0.47
45:RF:46:ARG:HH22	44:RG:76:ASP:CB	2.28	0.47
45:RH:166:THR:HG21	45:RH:192:LEU:HD11	1.95	0.47
45:RH:325:GLU:O	45:RH:328:GLU:HG2	2.15	0.47
44:RI:145:THR:HG22	46:RI:501:GTP:O2G	2.15	0.47
44:RI:215:ARG:HH21	44:RI:299:ALA:HB1	1.80	0.47
44:RK:204:LEU:O	44:RK:204:LEU:HG	2.15	0.47
45:RL:327:ASP:HA	45:RL:330:MET:HE1	1.95	0.47
44:RM:387:VAL:O	44:RM:390:ARG:HG2	2.15	0.47
45:RN:28:HIS:CB	45:RN:30:ILE:HD11	2.45	0.47
45:RN:253:LEU:O	45:RN:257:LEU:HB2	2.14	0.47
45:RN:289:LEU:HD11	45:RN:363:MET:HE2	1.97	0.47
44:SA:323:VAL:CG1	44:SA:355:ILE:HG23	2.45	0.47
44:SA:426:ALA:HA	44:SA:429:GLU:CB	2.31	0.47
45:SB:10:GLY:HA3	48:SB:501:GDP:O1B	2.15	0.47
45:SB:139:LEU:HD23	45:SB:185:ALA:HB1	1.97	0.47
45:SB:178:THR:HG21	45:SB:180:VAL:HG12	1.95	0.47
45:SB:320:ARG:O	45:SB:320:ARG:HG3	2.14	0.47
45:SB:324:LYS:HD2	44:SC:210:TYR:CD1	2.50	0.47
45:SB:325:GLU:HG2	45:SB:328:GLU:OE2	2.14	0.47
44:SC:74:VAL:HG13	44:SC:75:ILE:N	2.30	0.47
44:SE:4:VAL:HG12	44:SE:51:THR:HG22	1.97	0.47
44:SE:32:PRO:HB3	44:SE:83:TYR:HE1	1.80	0.47
44:SE:76:ASP:CA	44:SE:79:ARG:HG2	2.42	0.47
44:SE:88:HIS:ND1	44:SE:89:PRO:HD2	2.30	0.47
44:SE:240:ALA:CB	44:SE:356:ASN:HD22	2.19	0.47
44:SE:248:LEU:HD11	48:SF:501:GDP:H5''	1.96	0.47
45:SH:215:LEU:HA	45:SH:275:SER:HA	1.97	0.47
45:SH:256:ASN:O	45:SH:257:LEU:HD12	2.15	0.47
45:SH:259:PRO:HB2	45:SH:260:PHE:CD2	2.50	0.47
44:SI:102:ASN:HD21	44:SI:411:GLU:HG3	1.80	0.47
45:SJ:22:GLU:HG2	45:SJ:81:PHE:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:99:ASN:OD1	45:SJ:141:GLY:HA2	2.14	0.47
45:SJ:280:GLN:O	45:SJ:281:TYR:HD1	1.98	0.47
44:SK:260:VAL:HG12	44:SK:262:TYR:O	2.15	0.47
44:SK:335:ILE:HD12	44:SK:335:ILE:H	1.80	0.47
45:SL:324:LYS:HB2	44:SM:222:PRO:CG	2.45	0.47
45:SL:334:GLN:HG3	45:SL:341:PHE:CE2	2.49	0.47
45:SN:8:GLN:HB2	45:SN:13:GLY:C	2.36	0.47
45:TB:268:ILE:CB	45:TB:368:VAL:HG12	2.45	0.47
45:TB:395:LEU:O	45:TB:399:THR:HG23	2.15	0.47
45:TB:398:TYR:CB	45:TB:403:MET:HE2	2.44	0.47
44:TC:5:ILE:HG22	44:TC:7:ILE:CD1	2.44	0.47
44:TC:66:VAL:HG22	44:TC:68:LEU:CD1	2.45	0.47
44:TC:329:ASN:HA	44:TC:332:ILE:HG22	1.97	0.47
45:TD:22:GLU:HG2	45:TD:81:PHE:CD2	2.50	0.47
45:TF:1:MET:CE	44:TG:96:LYS:HB3	2.45	0.47
44:TG:108:TYR:CD1	44:TG:112:LYS:HE3	2.50	0.47
44:TG:289:ALA:HA	44:TG:331:SER:OG	2.15	0.47
45:TH:68:LEU:HD11	45:TH:108:GLU:CD	2.35	0.47
45:TH:248:SER:CA	45:TH:252:LYS:HD2	2.44	0.47
45:TH:323:THR:O	45:TH:326:VAL:N	2.48	0.47
45:TJ:242:PHE:CG	45:TJ:356:ILE:HG13	2.50	0.47
45:TJ:256:ASN:OD1	45:TJ:350:LYS:HE2	2.15	0.47
44:TK:191:THR:HA	44:TK:194:LEU:HG	1.97	0.47
44:TK:203:MET:HG3	44:TK:384:ILE:HD13	1.96	0.47
45:TL:4:ILE:HD11	45:TL:50:TYR:OH	2.14	0.47
45:TL:217:LEU:HD12	45:TL:217:LEU:O	2.15	0.47
45:TL:260:PHE:HZ	44:TM:401:LYS:HZ3	1.61	0.47
45:TN:40:SER:N	45:TN:43:GLN:OE1	2.38	0.47
44:UA:175:PRO:HB3	44:UA:390:ARG:CD	2.44	0.47
44:UE:14:ILE:O	44:UE:18:ASN:ND2	2.48	0.47
44:UE:174:SER:HB2	44:UE:177:VAL:O	2.15	0.47
44:UG:70:LEU:HA	44:UG:95:GLY:HA3	1.97	0.47
44:UG:352:LYS:HA	45:UH:177:ASP:C	2.34	0.47
45:UH:254:ALA:O	44:UI:407:TRP:HH2	1.98	0.47
44:UI:377:MET:SD	44:UI:378:ILE:N	2.88	0.47
45:UJ:3:GLU:OE2	45:UJ:127:CYS:HB2	2.14	0.47
45:UJ:51:TYR:CE1	45:UJ:61:PRO:HB3	2.50	0.47
44:UK:31:GLN:HB3	44:UK:32:PRO:CD	2.44	0.47
44:UK:390:ARG:HG3	44:UK:391:LEU:H	1.80	0.47
44:VA:256:GLN:CG	45:VD:397:TRP:HZ2	2.24	0.47
45:VB:3:GLU:HG2	45:VB:62:ARG:HH12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:215:ARG:NH2	44:VC:299:ALA:HB1	2.30	0.47
45:VH:191:GLN:NE2	45:VH:195:ASN:OD1	2.43	0.47
45:VH:217:LEU:HD11	45:VH:220:PRO:HB3	1.95	0.47
45:VJ:20:PHE:HE1	45:VJ:233:MET:CB	2.18	0.47
45:VJ:28:HIS:ND1	45:VJ:43:GLN:O	2.45	0.47
45:VJ:263:LEU:HD23	45:VJ:422:TYR:CE1	2.50	0.47
45:VJ:342:VAL:CG1	45:VJ:345:ILE:CG2	2.84	0.47
45:VL:300:MET:O	45:VL:300:MET:HG3	2.15	0.47
44:VM:26:LEU:CD2	44:VM:364:PRO:HD2	2.45	0.47
44:VM:413:MET:SD	44:VM:417:GLU:HB2	2.54	0.47
45:VN:9:GLY:HA2	45:VN:66:MET:O	2.15	0.47
45:VN:253:LEU:HD21	45:VN:316:LEU:HD21	1.96	0.47
45:WD:42:LEU:HD12	45:WD:42:LEU:N	2.30	0.47
45:WD:181:GLU:N	45:WD:182:PRO:HD2	2.30	0.47
45:WD:286:VAL:HB	45:WD:325:GLU:OE2	2.14	0.47
45:WD:320:ARG:H	45:WD:320:ARG:HD3	1.80	0.47
44:WE:70:LEU:HG	44:WE:145:THR:OG1	2.15	0.47
44:WE:100:ALA:HA	45:WF:252:LYS:HD3	1.96	0.47
45:WF:11:GLN:HB3	48:WF:501:GDP:O1A	2.15	0.47
44:WG:22:GLU:OE2	44:WG:83:TYR:HE2	1.98	0.47
44:WG:270:SER:HB2	44:WG:377:MET:O	2.15	0.47
44:WI:62:VAL:O	44:WI:62:VAL:HG13	2.15	0.47
45:WL:11:GLN:H	48:WL:501:GDP:PB	2.37	0.47
45:WL:201:VAL:HG12	45:WL:266:PHE:O	2.15	0.47
44:WM:7:ILE:HA	44:WM:66:VAL:CG1	2.45	0.47
44:WM:24:PHE:HE1	44:WM:52:PHE:CE2	2.33	0.47
44:WM:331:SER:HA	44:WM:334:THR:HB	1.97	0.47
45:WN:4:ILE:HG21	45:WN:250:LEU:CD1	2.45	0.47
45:WN:4:ILE:HG23	45:WN:131:GLN:HB3	1.96	0.47
21:1K:51:ARG:HH22	44:JC:47:ASP:HB2	1.79	0.46
22:1L:161:PHE:CE1	44:CI:219:ILE:HD11	2.51	0.46
22:1L:412:HIS:CD2	44:CG:221:ARG:HH12	2.33	0.46
22:1L:488:LYS:HZ3	45:BH:33:THR:HG22	1.80	0.46
22:1L:825:GLU:OE2	35:7R:102:SER:HB2	2.15	0.46
25:1P:395:GLN:NE2	44:TA:362:VAL:HG21	2.29	0.46
13:1T:139:TYR:CE1	45:MF:107:THR:HB	2.50	0.46
15:1V:128:GLN:NE2	45:LL:413:SER:HB3	2.30	0.46
2:2A:134:LYS:H	45:AJ:320:ARG:HH22	1.62	0.46
5:2D:75:ASP:CB	45:EJ:362:LYS:HG3	2.44	0.46
22:2L:490:TYR:O	35:6R:215:LEU:HD12	2.15	0.46
24:2O:184:GLU:HG3	45:VL:276:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2V:51:LEU:HD22	44:LE:116:ASP:HB3	1.96	0.46
15:3V:156:LEU:HD22	44:MC:386:GLU:CD	2.34	0.46
31:4H:197:LYS:O	45:AL:320:ARG:NH2	2.19	0.46
37:5C:67:ALA:HB1	38:5G:69:LYS:NZ	2.27	0.46
38:5E:203:PHE:HB2	44:LC:422:ARG:NE	2.31	0.46
38:5F:212:THR:CG2	45:LJ:391:ARG:HH21	2.28	0.46
38:5G:42:TYR:N	44:OG:372:MET:HE1	2.30	0.46
39:5J:102:ASN:O	39:5J:105:PRO:HD2	2.15	0.46
11:5Q:87:TYR:CD1	11:5Q:160:CYS:HB3	2.51	0.46
11:5Q:100:ARG:HG2	11:5Q:100:ARG:NH1	2.30	0.46
35:5R:18:PRO:HA	35:5R:19:ASP:HA	1.53	0.46
35:5R:22:LYS:HG3	35:5R:23:GLU:H	1.81	0.46
35:5R:85:TRP:CE3	35:5R:86:LEU:HB2	2.50	0.46
35:5R:97:CYS:N	35:5R:116:CYS:O	2.31	0.46
36:5S:65:PHE:HE2	36:5S:120:ALA:HB2	1.74	0.46
36:5S:78:VAL:HG22	44:WE:127:ASP:OD1	2.15	0.46
41:6G:226:GLY:HA3	44:VC:340:THR:HG22	1.97	0.46
35:6R:314:ILE:O	35:6R:314:ILE:HG13	2.14	0.46
35:6R:462:ASN:OD1	45:FN:219:THR:N	2.40	0.46
35:7R:219:LYS:HZ1	45:BD:75:SER:HB2	1.80	0.46
42:8L:190:UNK:HA	44:SG:370:LYS:HZ1	1.80	0.46
43:8P:348:UNK:O	43:8P:352:UNK:N	2.48	0.46
44:AA:2:ARG:HD2	44:AA:242:LEU:O	2.15	0.46
44:AA:7:ILE:HD12	44:AA:66:VAL:HG13	1.96	0.46
44:AA:12:GLY:O	44:AA:16:VAL:HG12	2.14	0.46
44:AA:324:VAL:CG1	44:AA:325:PRO:HD2	2.45	0.46
45:AD:262:ARG:NH1	45:AD:421:GLU:HG3	2.30	0.46
45:AD:282:ARG:O	45:MD:54:ALA:HB1	2.15	0.46
44:AE:174:SER:CB	44:AE:207:GLU:HB2	2.46	0.46
44:AE:269:LEU:HD12	44:AE:301:MET:HG3	1.97	0.46
45:AF:294:PHE:CD2	45:AF:333:VAL:HG21	2.49	0.46
44:AG:27:GLU:HG2	44:AG:361:THR:HG21	1.96	0.46
44:AG:272:TYR:CD2	44:AG:275:ILE:HD11	2.50	0.46
44:AI:22:GLU:HG3	44:AI:83:TYR:CE2	2.50	0.46
45:AJ:36:TYR:CE1	45:AJ:44:LEU:HD11	2.50	0.46
45:AJ:166:THR:HB	45:AJ:199:CYS:HA	1.96	0.46
44:AK:144:GLY:O	44:AK:148:GLY:N	2.38	0.46
44:AM:141:VAL:CG1	44:AM:173:PRO:HD3	2.45	0.46
44:AM:306:ASP:OD2	44:AM:308:ARG:HB2	2.15	0.46
45:AN:49:VAL:HG21	45:AN:241:ARG:CD	2.43	0.46
45:AN:318:ARG:NE	45:AN:358:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:272:TYR:CE2	44:BA:275:ILE:HG12	2.49	0.46
44:BA:312:TYR:O	44:BA:343:PHE:HA	2.16	0.46
44:BC:223:THR:HB	45:BD:322:SER:CB	2.45	0.46
45:BD:292:GLN:O	45:BD:292:GLN:HG2	2.15	0.46
44:BE:271:SER:HB2	44:BE:377:MET:SD	2.54	0.46
44:BG:323:VAL:CG2	44:BG:328:VAL:HG23	2.45	0.46
45:BH:170:VAL:CG1	45:BH:171:PRO:HD2	2.43	0.46
44:BI:4:VAL:HG23	44:BI:134:GLY:O	2.16	0.46
44:BI:195:LEU:HD12	44:BI:266:HIS:CE1	2.50	0.46
44:BI:312:TYR:HB2	44:BI:343:PHE:CD1	2.50	0.46
44:BI:320:ARG:NH2	44:BI:360:PRO:HA	2.30	0.46
44:BI:324:VAL:HG11	45:BL:219:THR:CG2	2.44	0.46
44:BI:402:ARG:O	44:BI:405:VAL:HG12	2.15	0.46
45:BJ:16:ILE:HD13	45:BJ:226:ASN:OD1	2.15	0.46
45:BJ:20:PHE:CE1	45:BJ:233:MET:HB3	2.50	0.46
45:BJ:152:ILE:HD13	45:BJ:164:MET:HE2	1.97	0.46
45:BJ:304:ASP:CG	45:BJ:306:ARG:HG2	2.34	0.46
44:BK:3:GLU:OE2	44:BK:129:CYS:HB3	2.14	0.46
44:BK:13:GLY:O	44:BK:16:VAL:HG12	2.15	0.46
44:BK:195:LEU:HD13	44:BK:267:PHE:CZ	2.50	0.46
45:BL:170:VAL:HG23	45:BL:203:ASP:OD1	2.15	0.46
45:BL:349:ILE:HG22	45:BL:350:LYS:N	2.31	0.46
44:BM:194:LEU:CD1	44:BM:267:PHE:HZ	2.28	0.46
44:BM:237:SER:HA	44:BM:320:ARG:HH12	1.77	0.46
44:CA:114:ILE:HA	44:CA:117:LEU:HD12	1.98	0.46
44:CA:152:LEU:O	44:CA:156:ARG:HG3	2.15	0.46
45:CB:253:LEU:O	45:CB:257:LEU:HB2	2.15	0.46
45:CB:350:LYS:HA	44:CC:179:THR:O	2.14	0.46
44:CC:317:MET:CB	44:CC:377:MET:HB3	2.45	0.46
44:CC:392:ASP:OD1	44:CC:422:ARG:NH1	2.48	0.46
45:CF:255:VAL:CG2	44:CG:407:TRP:HZ3	2.26	0.46
45:CF:342:VAL:CG1	45:CF:345:ILE:HG22	2.42	0.46
45:CH:259:PRO:HA	44:CI:404:PHE:CD2	2.50	0.46
44:CK:11:GLN:HB3	46:CK:501:GTP:PB	2.55	0.46
44:CK:212:ILE:HD11	44:CK:300:ASN:HA	1.97	0.46
45:CL:21:TRP:CH2	45:CL:61:PRO:HB3	2.50	0.46
45:CL:203:ASP:OD2	45:CL:302:ALA:N	2.41	0.46
45:CL:273:LEU:H	45:CL:292:GLN:NE2	2.11	0.46
44:CM:4:VAL:HG22	44:CM:5:ILE:N	2.30	0.46
45:CN:10:GLY:HA2	45:CN:67:ASP:CG	2.36	0.46
45:CN:107:THR:CG2	45:CN:108:GLU:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:121:ARG:O	45:CN:124:ALA:HB3	2.15	0.46
44:DC:22:GLU:HG3	44:DC:83:TYR:CE2	2.50	0.46
45:DD:65:LEU:HD21	45:DD:85:PHE:CE2	2.50	0.46
45:DD:325:GLU:O	45:DD:328:GLU:HG2	2.16	0.46
44:DE:137:VAL:HG12	44:DE:168:GLY:HA2	1.97	0.46
44:DE:172:TYR:HB2	44:DE:203:MET:HE3	1.96	0.46
44:DE:248:LEU:HD13	48:DF:501:GDP:H5 <sup>+</sup>	1.97	0.46
44:DG:161:TYR:O	44:DG:164:LYS:NZ	2.48	0.46
44:DG:255:PHE:O	44:DG:259:LEU:HB2	2.15	0.46
45:DH:17:GLY:O	45:DH:21:TRP:HB2	2.15	0.46
45:DH:32:PRO:HG3	45:DH:81:PHE:CE1	2.42	0.46
45:DH:255:VAL:HA	44:DI:407:TRP:HZ3	1.79	0.46
45:DH:274:THR:HG22	45:DH:275:SER:N	2.29	0.46
44:DK:1:MET:O	44:DK:131:GLY:HA3	2.15	0.46
44:DK:51:THR:HG22	44:DK:52:PHE:CE1	2.50	0.46
44:DK:188:ILE:HG23	44:DK:425:LEU:CD1	2.45	0.46
45:DL:221:THR:O	45:DL:224:ASP:HB2	2.15	0.46
44:DM:145:THR:O	44:DM:149:LEU:HD23	2.14	0.46
45:DN:103:LYS:N	45:DN:401:GLU:OE1	2.47	0.46
45:DN:190:HIS:HE2	45:DN:414:ASN:HD22	1.64	0.46
44:EA:347:CYS:SG	44:EA:350:GLY:HA3	2.56	0.46
44:EC:1:MET:HG2	45:ED:70:PRO:CG	2.45	0.46
44:EC:1:MET:HE1	45:ED:94:GLN:HG3	1.97	0.46
44:EC:21:TRP:CH2	44:EC:63:PRO:HB3	2.49	0.46
44:EC:219:ILE:HG22	44:EC:222:PRO:CD	2.44	0.46
44:EC:288:VAL:CA	44:EC:291:ILE:HG12	2.45	0.46
44:EC:318:MET:O	44:EC:375:VAL:HG23	2.15	0.46
45:ED:165:GLU:OE2	45:ED:250:LEU:HD23	2.15	0.46
45:ED:202:ILE:CD1	45:ED:300:MET:HB3	2.45	0.46
45:ED:395:LEU:O	45:ED:399:THR:HG22	2.14	0.46
44:EE:209:ILE:HD11	44:EE:231:ILE:HD11	1.96	0.46
44:EE:333:ALA:HA	44:EE:336:LYS:HZ1	1.78	0.46
44:EE:345:ASP:HB2	44:EE:438:GLU:CG	2.45	0.46
44:EE:348:PRO:HG3	45:EF:384:GLN:HG2	1.96	0.46
45:EF:116:VAL:O	45:EF:120:VAL:HG23	2.15	0.46
45:EF:214:THR:O	45:EF:275:SER:HB3	2.15	0.46
45:EH:94:GLN:OE1	45:EH:94:GLN:HA	2.15	0.46
45:EH:180:VAL:O	45:EH:180:VAL:HG22	2.15	0.46
45:EH:256:ASN:O	45:EH:257:LEU:HD12	2.14	0.46
44:EI:230:LEU:HD11	44:EI:275:ILE:HD13	1.97	0.46
45:EL:3:GLU:O	45:EL:131:GLN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:36:TYR:CZ	45:EL:38:GLY:HA3	2.50	0.46
45:EN:19:LYS:CE	45:EN:227:HIS:HA	2.45	0.46
45:EN:304:ASP:OD2	45:EN:307:HIS:NE2	2.49	0.46
44:FA:191:THR:HA	44:FA:194:LEU:CG	2.40	0.46
44:FA:439:THR:HG21	45:FD:390:ARG:HD3	1.97	0.46
45:FB:65:LEU:HD11	45:FB:85:PHE:CE2	2.50	0.46
45:FB:133:PHE:C	45:FB:164:MET:HE3	2.34	0.46
44:FC:278:ALA:CA	44:FC:369:ALA:HB2	2.45	0.46
44:FC:312:TYR:HB2	44:FC:343:PHE:HA	1.97	0.46
45:FD:268:ILE:HA	45:FD:368:VAL:HA	1.95	0.46
45:FF:193:VAL:HA	45:FF:264:HIS:NE2	2.29	0.46
45:FF:325:GLU:O	45:FF:328:GLU:HG2	2.15	0.46
44:FG:123:ARG:HA	44:FG:161:TYR:OH	2.15	0.46
44:FG:172:TYR:HD2	44:FG:203:MET:SD	2.37	0.46
44:FG:254:GLU:CG	45:FJ:98:GLY:HA2	2.38	0.46
45:FH:262:ARG:HH22	45:FH:421:GLU:HB3	1.79	0.46
44:FI:119:LEU:CA	44:FI:122:ILE:HG22	2.45	0.46
45:FJ:2:ARG:HB2	45:FJ:131:GLN:HG2	1.97	0.46
45:FJ:12:CYS:HB3	45:FJ:138:SER:HB2	1.96	0.46
45:FJ:318:ARG:HH21	45:FJ:358:PRO:HA	1.79	0.46
44:FK:219:ILE:O	44:FK:222:PRO:HD3	2.15	0.46
44:FK:271:SER:OG	44:FK:301:MET:HE1	2.15	0.46
45:FN:7:ILE:HB	45:FN:135:ILE:CD1	2.45	0.46
44:GA:295:ALA:HB1	44:GA:377:MET:SD	2.55	0.46
45:GB:272:PRO:HD3	45:GB:289:LEU:HD11	1.97	0.46
45:GD:134:GLN:CA	45:GD:165:GLU:HB2	2.45	0.46
44:GE:181:VAL:HG21	45:GF:342:VAL:CA	2.43	0.46
45:GF:12:CYS:SG	45:GF:138:SER:HB2	2.54	0.46
45:GF:251:ARG:HB2	45:GF:251:ARG:CZ	2.45	0.46
45:GH:3:GLU:HG3	45:GH:62:ARG:HH12	1.79	0.46
44:GI:101:ASN:HA	44:GI:144:GLY:H	1.79	0.46
44:GI:130:THR:HG23	44:GI:131:GLY:N	2.30	0.46
45:GJ:269:GLY:CA	45:GJ:300:MET:HE1	2.46	0.46
45:GJ:336:LYS:HA	45:GJ:336:LYS:HE2	1.96	0.46
44:GK:36:MET:HG3	44:GK:41:THR:CG2	2.45	0.46
44:GK:388:PHE:CZ	44:GK:428:LEU:HD21	2.51	0.46
45:GL:4:ILE:HG22	45:GL:5:VAL:N	2.29	0.46
45:GL:109:GLY:O	45:GL:113:ILE:HB	2.15	0.46
45:GL:331:LEU:HD12	45:GL:331:LEU:O	2.15	0.46
44:GM:8:HIS:CD2	44:GM:138:PHE:HD2	2.33	0.46
44:GM:141:VAL:HG11	44:GM:172:TYR:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:161:TYR:HB3	44:GM:164:LYS:HG2	1.96	0.46
44:GM:170:THR:O	44:GM:204:LEU:HB2	2.14	0.46
45:GN:276:ARG:HD3	45:GN:279:GLN:OE1	2.14	0.46
44:HA:175:PRO:HG2	44:HA:304:LYS:HG3	1.96	0.46
44:HA:308:ARG:HG2	44:HA:340:THR:HB	1.96	0.46
45:HB:130:LEU:HD21	45:HB:133:PHE:CE1	2.49	0.46
45:HB:222:TYR:O	45:HB:226:ASN:ND2	2.31	0.46
45:HB:332:ASN:O	45:HB:336:LYS:HG2	2.15	0.46
45:HD:19:LYS:O	45:HD:23:VAL:HG23	2.15	0.46
45:HD:318:ARG:HB2	45:HD:364:ALA:O	2.15	0.46
44:HE:176:GLN:HG2	44:HE:177:VAL:N	2.29	0.46
45:HF:216:LYS:HB2	45:HF:275:SER:CB	2.46	0.46
44:HI:9:VAL:H	44:HI:13:GLY:HA3	1.81	0.46
44:HI:413:MET:HA	44:HI:413:MET:CE	2.44	0.46
45:HJ:256:ASN:C	45:HJ:257:LEU:HD12	2.35	0.46
44:HK:75:ILE:HD12	44:HK:75:ILE:H	1.80	0.46
45:HL:31:ASP:OD2	45:HL:37:HIS:ND1	2.48	0.46
45:HL:187:LEU:HA	45:HL:411:ALA:HB1	1.97	0.46
45:HL:245:GLN:HB2	45:HL:353:ILE:CG2	2.44	0.46
44:HM:226:ASN:HA	44:HM:229:ARG:CD	2.45	0.46
44:IA:12:GLY:O	44:IA:16:VAL:HG12	2.15	0.46
44:IA:28:HIS:NE2	44:IA:243:ARG:HD2	2.30	0.46
45:IB:286:VAL:HA	45:IB:289:LEU:CD1	2.45	0.46
44:IC:182:VAL:O	44:IC:182:VAL:HG22	2.15	0.46
45:ID:113:ILE:HG21	45:ID:150:LEU:HD22	1.96	0.46
44:IE:276:ILE:HG23	44:IE:276:ILE:O	2.14	0.46
44:IE:285:GLN:O	44:IE:286:LEU:HB2	2.15	0.46
45:IF:134:GLN:O	45:IF:135:ILE:HD13	2.15	0.46
45:IF:143:THR:N	48:IF:501:GDP:O2B	2.44	0.46
45:IH:192:LEU:HG	45:IH:196:ALA:HB2	1.97	0.46
45:IJ:187:LEU:HD23	45:IJ:411:ALA:CB	2.45	0.46
45:IJ:251:ARG:O	45:IJ:254:ALA:HB3	2.15	0.46
45:IJ:360:GLY:O	45:IJ:361:LEU:HD22	2.16	0.46
44:IM:205:ASP:CG	44:IM:304:LYS:H	2.14	0.46
45:IN:203:ASP:OD2	45:IN:302:ALA:N	2.25	0.46
44:JA:195:LEU:O	44:JA:266:HIS:NE2	2.45	0.46
45:JB:319:GLY:HA3	45:JB:363:MET:HE3	1.97	0.46
44:JC:88:HIS:HB3	44:JC:91:GLN:CG	2.44	0.46
44:JC:326:LYS:NZ	45:JF:220:PRO:HD2	2.30	0.46
44:JE:413:MET:HE2	44:JE:417:GLU:CG	2.45	0.46
45:JF:350:LYS:HD2	45:JF:350:LYS:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:141:GLY:HA3	48:JH:501:GDP:O3A	2.15	0.46
45:JH:344:TRP:CE3	45:JH:345:ILE:HB	2.49	0.46
44:JI:177:VAL:O	44:JI:177:VAL:HG13	2.15	0.46
45:JJ:73:MET:HE3	45:JJ:92:PHE:HB3	1.97	0.46
45:JJ:141:GLY:HA2	48:JJ:501:GDP:O1A	2.15	0.46
45:JJ:310:TYR:CE1	45:JJ:371:SER:HB3	2.50	0.46
45:JJ:325:GLU:HA	45:JJ:328:GLU:CG	2.44	0.46
44:JK:7:ILE:HD11	44:JK:122:ILE:HD12	1.97	0.46
44:JK:14:ILE:HD11	44:JK:67:PHE:CD2	2.51	0.46
45:JN:162:ARG:NE	45:JN:162:ARG:HA	2.30	0.46
45:KB:218:THR:HG23	45:KB:219:THR:HG23	1.96	0.46
45:KB:372:THR:O	45:KB:375:GLN:HG2	2.15	0.46
44:KC:28:HIS:HE1	44:KC:243:ARG:HD2	1.79	0.46
45:KD:304:ASP:OD1	45:KD:305:PRO:HD2	2.15	0.46
44:KE:84:ARG:HG3	44:KE:85:GLN:HG2	1.98	0.46
45:KF:127:CYS:SG	45:KF:130:LEU:HB2	2.55	0.46
44:KG:123:ARG:NE	44:KG:161:TYR:OH	2.42	0.46
44:KG:329:ASN:O	44:KG:332:ILE:HG22	2.16	0.46
45:KH:22:GLU:HA	45:KH:81:PHE:HD2	1.81	0.46
44:KI:96:LYS:HA	45:KJ:1:MET:HE1	1.95	0.46
44:KI:204:LEU:HD13	44:KI:231:ILE:CD1	2.42	0.46
45:KJ:130:LEU:HD12	45:KJ:131:GLN:N	2.31	0.46
45:KL:344:TRP:O	45:KL:345:ILE:HD13	2.15	0.46
44:KM:80:THR:O	44:KM:80:THR:HG22	2.16	0.46
44:KM:119:LEU:CD1	44:KM:156:ARG:HG2	2.45	0.46
44:KM:276:ILE:HD11	44:KM:280:LYS:HB3	1.97	0.46
44:KM:356:ASN:OD1	44:KM:357:TYR:N	2.47	0.46
45:KN:9:GLY:HA2	45:KN:66:MET:O	2.14	0.46
44:LA:118:CYS:O	44:LA:122:ILE:HG12	2.15	0.46
45:LB:213:ARG:NH2	45:LB:297:LYS:O	2.41	0.46
45:LB:227:HIS:O	45:LB:230:SER:N	2.48	0.46
45:LB:294:PHE:HE2	45:LB:333:VAL:HG21	1.80	0.46
44:LC:320:ARG:HD3	44:LC:360:PRO:N	2.29	0.46
45:LD:276:ARG:HG2	45:LD:276:ARG:HH11	1.79	0.46
45:LD:293:MET:CE	45:LD:365:VAL:HG11	2.45	0.46
44:LE:320:ARG:HG2	44:LE:374:ALA:HB3	1.96	0.46
44:LG:7:ILE:CG2	44:LG:153:LEU:HD21	2.39	0.46
44:LG:190:SER:O	44:LG:193:SER:OG	2.18	0.46
44:LG:320:ARG:HA	44:LG:356:ASN:O	2.15	0.46
44:LI:109:THR:HG23	44:LI:110:ILE:H	1.79	0.46
44:LI:425:LEU:O	44:LI:429:GLU:OE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:241:ARG:HG2	45:LJ:242:PHE:HE1	1.77	0.46
45:LL:290:THR:HG21	45:LL:329:GLN:HG2	1.97	0.46
44:LM:21:TRP:HA	44:LM:24:PHE:CD2	2.50	0.46
44:LM:56:THR:HG21	44:LM:60:LYS:N	2.30	0.46
44:LM:121:ARG:HA	44:LM:121:ARG:NE	2.30	0.46
45:LN:202:ILE:HG12	45:LN:300:MET:SD	2.55	0.46
44:MA:108:TYR:CA	44:MA:112:LYS:HE3	2.35	0.46
45:MB:213:ARG:HH12	45:MB:297:LYS:CB	2.28	0.46
45:MB:213:ARG:HH12	45:MB:297:LYS:HD2	1.80	0.46
45:MD:7:ILE:HB	45:MD:135:ILE:CD1	2.45	0.46
45:MD:221:THR:HG22	45:MD:222:TYR:N	2.30	0.46
45:MD:252:LYS:O	45:MD:255:VAL:HG12	2.15	0.46
44:ME:208:ALA:HB3	44:ME:302:MET:O	2.15	0.46
45:MF:20:PHE:O	45:MF:24:ILE:HG22	2.15	0.46
45:MF:28:HIS:HE2	45:MF:241:ARG:NH1	2.13	0.46
44:MG:54:SER:HB3	44:MG:64:ARG:NH2	2.30	0.46
44:MG:103:PHE:HB3	44:MG:408:TYR:HE2	1.80	0.46
44:MG:348:PRO:HD2	45:MJ:388:MET:HE2	1.97	0.46
45:MH:99:ASN:C	45:MH:142:GLY:HA3	2.35	0.46
44:MI:235:ILE:HD12	44:MI:235:ILE:H	1.80	0.46
44:MI:244:PHE:CZ	44:MI:358:GLN:HG2	2.49	0.46
44:MI:292:THR:O	44:MI:295:ALA:HB3	2.14	0.46
45:MJ:7:ILE:HG21	45:MJ:151:LEU:CD2	2.45	0.46
45:MJ:197:ASP:O	45:MJ:264:HIS:HB2	2.15	0.46
45:MJ:378:PHE:CE2	45:MJ:415:MET:HE1	2.49	0.46
44:MK:54:SER:HB3	44:MK:64:ARG:HH12	1.80	0.46
44:MK:210:TYR:HE1	45:ML:324:LYS:HB2	1.77	0.46
45:ML:268:ILE:O	45:ML:300:MET:HE2	2.15	0.46
44:MM:294:SER:HA	44:MM:297:GLU:OE2	2.15	0.46
45:NB:145:SER:O	45:NB:149:THR:HB	2.15	0.46
45:NB:374:ILE:CA	45:NB:377:MET:HE2	2.45	0.46
44:NC:295:ALA:HB1	44:NC:377:MET:CE	2.44	0.46
44:NC:362:VAL:HG13	44:NC:362:VAL:O	2.15	0.46
45:ND:242:PHE:CG	45:ND:356:ILE:HG13	2.51	0.46
45:NF:8:GLN:OE1	45:NF:17:GLY:HA3	2.15	0.46
45:NH:86:ARG:CD	45:OH:281:TYR:HB3	2.44	0.46
45:NH:200:MET:SD	45:NH:268:ILE:HG21	2.54	0.46
44:NI:339:ARG:HD2	44:NI:340:THR:N	2.30	0.46
45:NJ:258:ILE:HG23	45:NJ:263:LEU:O	2.15	0.46
45:NJ:295:ASP:CG	45:NJ:297:LYS:HG2	2.36	0.46
44:NK:311:LYS:HE2	44:NK:342:GLN:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:5:ILE:HB	44:NM:135:PHE:CD2	2.50	0.46
44:NM:32:PRO:HB3	44:NM:83:TYR:CE1	2.51	0.46
44:NM:141:VAL:CG2	44:NM:187:SER:HA	2.45	0.46
44:NM:254:GLU:OE1	44:NM:254:GLU:O	2.32	0.46
44:NM:268:MET:SD	44:NM:269:LEU:N	2.88	0.46
44:NM:276:ILE:HG12	44:NM:371:VAL:HB	1.95	0.46
44:NM:393:HIS:NE2	44:NM:397:LEU:HD21	2.30	0.46
45:NN:190:HIS:CD2	45:NN:414:ASN:HD22	2.33	0.46
45:NN:193:VAL:HG23	45:NN:264:HIS:CE1	2.32	0.46
45:NN:242:PHE:CE2	45:NN:356:ILE:HG21	2.50	0.46
44:OA:66:VAL:O	44:OA:66:VAL:HG13	2.15	0.46
45:OB:189:VAL:O	45:OB:193:VAL:HG12	2.15	0.46
45:OD:4:ILE:HG22	45:OD:131:GLN:HB3	1.96	0.46
45:OD:113:ILE:HD13	45:OD:150:LEU:HG	1.97	0.46
45:OD:133:PHE:HB2	45:OD:164:MET:HG2	1.96	0.46
45:OD:227:HIS:O	45:OD:231:ALA:N	2.45	0.46
45:OD:312:THR:HA	45:OD:348:ASN:HD22	1.79	0.46
45:OD:348:ASN:C	45:OD:349:ILE:HD13	2.35	0.46
44:OE:311:LYS:O	44:OE:382:THR:HG23	2.16	0.46
44:OE:329:ASN:O	44:OE:332:ILE:HB	2.15	0.46
44:OE:416:GLY:O	44:OE:420:GLU:HG3	2.14	0.46
45:OF:58:ARG:O	45:OF:59:TYR:HD1	1.98	0.46
44:OG:427:ALA:HA	44:OG:430:LYS:HZ3	1.80	0.46
45:OH:139:LEU:HD22	45:OH:188:SER:HB2	1.96	0.46
45:OH:337:ASN:HB3	45:OH:340:TYR:HB2	1.97	0.46
44:OI:204:LEU:HD13	44:OI:231:ILE:CD1	2.34	0.46
44:OI:294:SER:O	44:OI:297:GLU:HB2	2.15	0.46
45:OJ:116:VAL:CA	45:OJ:119:VAL:HG22	2.44	0.46
44:OK:188:ILE:CD1	44:OK:425:LEU:HG	2.45	0.46
44:OK:329:ASN:CA	44:OK:332:ILE:HB	2.38	0.46
44:OK:385:ALA:O	44:OK:389:SER:N	2.41	0.46
45:OL:282:ARG:NH1	45:OL:283:ALA:H	2.11	0.46
44:OM:33:ASP:O	44:OM:60:LYS:HG3	2.15	0.46
44:OM:141:VAL:HG11	44:OM:172:TYR:CE1	2.50	0.46
45:ON:182:PRO:HB3	45:ON:384:GLN:HB3	1.97	0.46
45:ON:269:GLY:O	45:ON:367:PHE:N	2.36	0.46
44:PA:51:THR:HG21	44:PA:243:ARG:HD3	1.97	0.46
44:PA:60:LYS:CE	44:PA:86:LEU:HD12	2.44	0.46
44:PA:183:GLU:HG2	44:PA:184:PRO:N	2.29	0.46
45:PB:411:ALA:O	45:PB:415:MET:HG3	2.15	0.46
44:PC:223:THR:CG2	44:PC:225:THR:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:205:GLU:HG2	45:PD:206:ALA:N	2.30	0.46
45:PD:303:ALA:HB1	45:PD:373:ALA:O	2.14	0.46
44:PE:259:LEU:HD13	44:PE:268:MET:CE	2.46	0.46
45:PF:10:GLY:CA	45:PF:143:THR:HG21	2.45	0.46
44:PG:71:GLU:OE2	44:PG:72:PRO:HD2	2.15	0.46
44:PG:111:GLY:O	44:PG:115:VAL:N	2.40	0.46
44:PG:285:GLN:HG3	44:PG:287:SER:H	1.81	0.46
44:PI:14:ILE:CD1	44:PI:75:ILE:HD11	2.44	0.46
45:PJ:318:ARG:HD3	45:PJ:358:PRO:CG	2.45	0.46
44:PK:328:VAL:HG21	44:PK:353:VAL:HG21	1.97	0.46
44:PM:208:ALA:O	44:PM:212:ILE:HG12	2.15	0.46
44:PM:224:TYR:CE2	45:PN:246:LEU:HD11	2.50	0.46
44:QA:9:VAL:CB	44:QA:68:LEU:HB2	2.45	0.46
45:QB:46:ARG:HH22	44:QC:76:ASP:CB	2.27	0.46
44:QC:75:ILE:CG2	44:QC:92:LEU:HB3	2.44	0.46
45:QD:167:PHE:CE1	45:QD:200:MET:HG2	2.50	0.46
45:QH:7:ILE:HD13	45:QH:151:LEU:HD21	1.98	0.46
44:QI:87:PHE:HD1	44:QI:91:GLN:HE21	1.63	0.46
45:QJ:121:ARG:NH2	45:QJ:158:GLU:OE2	2.48	0.46
45:QJ:166:THR:OG1	45:QJ:199:CYS:HA	2.15	0.46
45:QJ:317:PHE:N	45:QJ:352:SER:O	2.45	0.46
44:QK:66:VAL:HG23	44:QK:91:GLN:HA	1.96	0.46
44:QK:93:ILE:HD12	44:QK:93:ILE:H	1.80	0.46
45:QL:211:CYS:HA	45:QL:215:LEU:HG	1.97	0.46
45:QL:315:ALA:HB3	45:QL:351:SER:HA	1.97	0.46
44:QM:97:GLU:HG2	44:QM:105:ARG:NH2	2.27	0.46
45:QN:165:GLU:OE2	45:QN:250:LEU:HD13	2.14	0.46
45:QN:206:ALA:O	45:QN:210:ILE:HG13	2.15	0.46
45:QN:302:ALA:HB3	45:QN:377:MET:HE3	1.98	0.46
45:QN:314:SER:HA	45:QN:350:LYS:O	2.14	0.46
45:RB:4:ILE:CG1	45:RB:50:TYR:HE1	2.28	0.46
45:RB:268:ILE:HB	45:RB:367:PHE:O	2.15	0.46
44:RE:75:ILE:HD12	44:RE:92:LEU:CD1	2.45	0.46
44:RE:141:VAL:HG22	44:RE:187:SER:CB	2.44	0.46
45:RF:1:MET:CE	44:RG:96:LYS:HG2	2.46	0.46
44:RG:156:ARG:O	44:RG:160:ASP:N	2.43	0.46
44:RG:271:SER:HA	44:RG:302:MET:HB2	1.97	0.46
45:RH:65:LEU:HD21	45:RH:85:PHE:CE2	2.50	0.46
45:RH:97:ALA:HB2	45:RH:143:THR:HB	1.97	0.46
44:RI:31:GLN:HB3	44:RI:32:PRO:CD	2.45	0.46
44:RI:66:VAL:HG12	44:RI:68:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:325:PRO:HG3	45:RJ:222:TYR:CZ	2.50	0.46
44:RI:349:THR:HG21	45:RJ:182:PRO:HD3	1.97	0.46
45:RJ:398:TYR:O	45:RJ:403:MET:HB2	2.16	0.46
44:RK:327:ASP:O	44:RK:331:SER:N	2.41	0.46
44:RK:386:GLU:HA	44:RK:389:SER:HG	1.80	0.46
45:RL:1:MET:HE2	44:RM:96:LYS:HG2	1.96	0.46
45:RN:232:ALA:HB1	45:RN:268:ILE:HD12	1.97	0.46
44:SA:14:ILE:HD13	44:SA:75:ILE:CD1	2.30	0.46
45:SB:52:ASN:OD1	45:SB:62:ARG:NH2	2.48	0.46
45:SB:234:SER:O	45:SB:237:THR:N	2.47	0.46
45:SB:315:ALA:HB1	45:SB:317:PHE:CE1	2.50	0.46
44:SC:230:LEU:HA	44:SC:233:GLN:OE1	2.15	0.46
45:SD:70:PRO:HB3	45:SD:73:MET:CE	2.45	0.46
44:SI:237:SER:CB	44:SI:376:CYS:HB3	2.45	0.46
45:SJ:406:MET:HA	45:SJ:409:THR:HG23	1.97	0.46
44:SK:87:PHE:HB3	44:SK:92:LEU:CD1	2.45	0.46
44:SK:346:TRP:CD1	45:SL:391:ARG:HG3	2.50	0.46
44:SK:348:PRO:HB2	45:SL:384:GLN:OE1	2.15	0.46
45:SL:151:LEU:O	45:SL:155:VAL:HG13	2.15	0.46
45:SL:256:ASN:C	45:SL:257:LEU:HD12	2.34	0.46
45:SL:312:THR:CA	45:SL:348:ASN:HB2	2.44	0.46
44:SM:205:ASP:O	44:SM:209:ILE:HG13	2.15	0.46
45:SN:30:ILE:O	45:SN:81:PHE:HE2	1.98	0.46
45:SN:32:PRO:HA	45:SN:84:LEU:HD11	1.97	0.46
45:SN:64:ILE:HD11	45:SN:123:GLU:HG3	1.97	0.46
45:TD:180:VAL:HG23	45:TD:183:TYR:HD2	1.80	0.46
44:TG:249:ASN:N	45:TH:11:GLN:HE22	2.06	0.46
44:TI:372:MET:CE	44:TI:372:MET:HA	2.45	0.46
45:TJ:100:ASN:ND2	45:TJ:102:ALA:HB3	2.30	0.46
44:TK:74:VAL:O	44:TK:78:VAL:HG23	2.15	0.46
44:TK:301:MET:HG3	44:TK:307:PRO:CD	2.45	0.46
45:TL:4:ILE:CG2	45:TL:134:GLN:HE22	2.27	0.46
45:TL:322:SER:H	44:TM:221:ARG:CZ	2.29	0.46
45:TL:331:LEU:CA	45:TL:334:GLN:HG2	2.42	0.46
44:TM:65:ALA:HB1	44:TM:67:PHE:HE1	1.79	0.46
44:TM:92:LEU:HD12	44:TM:92:LEU:N	2.30	0.46
44:TM:293:ASN:O	44:TM:297:GLU:N	2.48	0.46
45:TN:42:LEU:HA	45:TN:45:GLU:CD	2.35	0.46
44:UA:7:ILE:O	44:UA:137:VAL:HG23	2.16	0.46
44:UA:371:VAL:HG22	44:UA:373:ARG:H	1.80	0.46
45:UB:132:GLY:HA3	45:UB:163:ILE:CG1	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:203:MET:HG3	44:UC:384:ILE:HD11	1.98	0.46
44:UC:210:TYR:CE1	44:UC:227:LEU:HD11	2.46	0.46
44:UC:389:SER:O	44:UC:393:HIS:HB2	2.15	0.46
45:UD:86:ARG:NH1	45:VD:281:TYR:HB2	2.29	0.46
45:UD:315:ALA:HB1	45:UD:317:PHE:CE1	2.50	0.46
44:UE:182:VAL:C	44:UE:184:PRO:HD2	2.35	0.46
44:UE:257:THR:HA	45:UF:397:TRP:CZ3	2.50	0.46
44:UE:288:VAL:HG13	44:UE:289:ALA:N	2.30	0.46
45:UF:12:CYS:HB3	45:UF:138:SER:CB	2.45	0.46
45:UF:122:LYS:HA	45:UF:122:LYS:HE2	1.97	0.46
45:UF:159:TYR:CB	45:UF:162:ARG:HB2	2.45	0.46
45:UH:2:ARG:N	45:UH:129:CYS:HB3	2.30	0.46
45:UH:184:ASN:OD1	45:UH:185:ALA:N	2.47	0.46
45:UH:207:LEU:CB	45:UH:225:LEU:HD13	2.45	0.46
45:UH:249:ASP:OD1	45:UH:252:LYS:N	2.31	0.46
45:UH:282:ARG:NH1	45:UH:288:GLU:HB3	2.30	0.46
44:UI:4:VAL:HG23	44:UI:134:GLY:O	2.15	0.46
44:UI:88:HIS:HB3	44:UI:91:GLN:CD	2.35	0.46
44:UI:215:ARG:NH2	44:UI:300:ASN:HA	2.30	0.46
45:UJ:130:LEU:O	45:UJ:162:ARG:NE	2.48	0.46
45:UJ:180:VAL:O	45:UJ:180:VAL:HG22	2.15	0.46
45:UJ:306:ARG:HG3	45:UJ:307:HIS:CD2	2.50	0.46
44:UK:70:LEU:HG	44:UK:145:THR:OG1	2.15	0.46
44:UK:135:PHE:C	44:UK:136:LEU:HD23	2.36	0.46
45:UL:66:MET:HE2	45:UL:147:MET:HE2	1.97	0.46
45:UL:173:PRO:CG	45:UL:380:ARG:HD3	2.42	0.46
45:UL:318:ARG:CB	45:UL:358:PRO:HD3	2.44	0.46
44:UM:89:PRO:HD3	44:VK:280:LYS:HZ2	1.79	0.46
45:UN:52:ASN:HB2	45:UN:60:VAL:HG13	1.96	0.46
44:VA:23:LEU:HD11	44:VA:361:THR:HG23	1.97	0.46
44:VA:256:GLN:HB2	44:VA:260:VAL:CG2	2.45	0.46
45:VB:105:HIS:CE1	45:VB:150:LEU:HD21	2.51	0.46
45:VB:134:GLN:HA	45:VB:165:GLU:O	2.15	0.46
45:VB:371:SER:O	45:VB:374:ILE:HG23	2.15	0.46
45:VB:372:THR:HA	45:VB:422:TYR:HE2	1.80	0.46
45:VD:101:TRP:HZ3	45:VD:187:LEU:CB	2.28	0.46
45:VD:135:ILE:HG13	45:VD:152:ILE:CD1	2.45	0.46
45:VD:197:ASP:O	45:VD:264:HIS:HB2	2.15	0.46
45:VD:212:PHE:HE1	45:VD:218:THR:O	1.98	0.46
45:VD:344:TRP:CZ3	45:VD:345:ILE:HB	2.49	0.46
45:VF:189:VAL:HB	45:VF:415:MET:HE1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:268:MET:HB2	44:VG:379:SER:C	2.35	0.46
44:VG:324:VAL:HG13	44:VG:326:LYS:HG3	1.97	0.46
45:VH:183:TYR:CZ	45:VH:388:MET:HE3	2.49	0.46
44:VI:141:VAL:HG21	44:VI:187:SER:HA	1.91	0.46
44:VI:265:ILE:HD11	44:VI:435:VAL:HG21	1.97	0.46
44:VK:70:LEU:HB3	44:VK:97:GLU:O	2.15	0.46
44:VK:180:ALA:CA	45:VL:256:ASN:HD21	2.24	0.46
44:VK:313:MET:CE	44:VK:382:THR:HG22	2.46	0.46
45:VL:68:LEU:HD23	45:VL:97:ALA:CB	2.42	0.46
45:VL:217:LEU:CD1	45:VL:220:PRO:HA	2.45	0.46
44:VM:1:MET:H3	44:VM:2:ARG:NH2	2.13	0.46
44:VM:11:GLN:HE22	45:VN:247:ASN:H	1.62	0.46
44:WA:287:SER:HB3	44:WA:290:GLU:HG2	1.97	0.46
44:WA:344:VAL:HG22	44:WA:345:ASP:N	2.30	0.46
45:WB:277:GLY:O	45:WB:280:GLN:NE2	2.47	0.46
44:WC:183:GLU:CD	44:WC:184:PRO:HD3	2.35	0.46
45:WD:91:VAL:HG21	45:WD:115:SER:OG	2.14	0.46
45:WD:163:ILE:HA	45:WD:197:ASP:OD2	2.15	0.46
44:WE:137:VAL:HG12	44:WE:168:GLY:HA2	1.98	0.46
44:WE:257:THR:HA	45:WH:397:TRP:CZ3	2.50	0.46
45:WH:98:GLY:O	45:WH:99:ASN:HB2	2.15	0.46
44:WI:24:PHE:HZ	44:WI:235:ILE:CG2	2.28	0.46
44:WI:70:LEU:HD13	44:WI:110:ILE:HD11	1.97	0.46
44:WM:145:THR:O	44:WM:149:LEU:HB2	2.14	0.46
44:WM:307:PRO:HB3	44:WM:312:TYR:OH	2.15	0.46
44:WM:394:LYS:HE2	44:WM:394:LYS:HA	1.96	0.46
1:6H:217:GLN:CG	45:FD:320:ARG:CZ	2.84	0.46
2:0A:125:LEU:H	45:AB:279:GLN:NE2	2.13	0.46
5:0D:183:ALA:HB2	45:EB:53:GLU:HG2	1.97	0.46
6:0E:50:ILE:HG23	35:7R:382:TYR:CE1	2.49	0.46
7:0F:208:PHE:H	44:FC:219:ILE:HD13	1.79	0.46
8:1G:165:TYR:OH	44:KA:1:MET:N	2.45	0.46
8:1G:168:PHE:CE2	45:KD:70:PRO:HG2	2.50	0.46
22:1L:870:ARG:O	45:CB:362:LYS:HE3	2.15	0.46
10:1N:179:ILE:HD11	45:KJ:31:ASP:OD1	2.15	0.46
25:1P:168:ARG:NH1	44:TI:370:LYS:H	2.11	0.46
12:1S:96:LEU:HD21	45:MF:410:GLU:HB3	1.97	0.46
32:2I:102:VAL:HA	45:GF:306:ARG:HH22	1.80	0.46
16:2X:49:ILE:HG12	44:MI:282:TYR:CD2	2.41	0.46
22:3L:157:PRO:O	44:CA:221:ARG:NH2	2.48	0.46
26:3R:289:ASN:H	45:DL:218:THR:CG2	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3U:449:ARG:NH1	44:VM:84:ARG:HD2	2.30	0.46
37:5A:57:PRO:HG2	45:KB:390:ARG:NH2	2.26	0.46
37:5D:74:SER:HB2	45:NN:362:LYS:CD	2.43	0.46
37:5D:107:TYR:N	44:NM:279:GLU:H	2.13	0.46
38:5F:164:LYS:N	38:5F:165:PRO:CD	2.79	0.46
38:5F:200:LEU:HD22	44:LG:422:ARG:HH21	1.80	0.46
38:5F:203:PHE:CD1	44:LG:426:ALA:HB2	2.50	0.46
38:5H:35:LEU:HD21	44:OK:278:ALA:O	2.15	0.46
35:5R:527:ASP:OD2	35:5R:529:GLU:HB3	2.15	0.46
35:5R:539:ALA:HB2	35:5R:548:PHE:CE2	2.50	0.46
40:6F:59:ASN:O	40:6F:60:LYS:CB	2.63	0.46
35:6R:231:TYR:CZ	45:CN:216:LYS:CB	2.79	0.46
35:6R:288:LYS:HZ3	44:CM:45:GLY:HA2	1.79	0.46
35:6R:509:ASP:OD2	35:6R:510:GLU:N	2.49	0.46
35:7R:78:ILE:CG2	35:7R:79:PRO:HD2	2.45	0.46
35:7R:323:LEU:HD23	45:CB:279:GLN:OE1	2.15	0.46
35:7R:457:GLU:HB2	35:7R:470:PHE:HB2	1.97	0.46
43:8R:172:UNK:CE1	44:PG:370:LYS:HE3	2.46	0.46
44:AA:99:ALA:CB	44:AA:145:THR:HB	2.45	0.46
45:AB:256:ASN:CB	45:AB:350:LYS:HD2	2.46	0.46
44:AC:105:ARG:HG2	44:AC:411:GLU:OE1	2.15	0.46
44:AC:406:HIS:HE2	45:AD:260:PHE:HA	1.81	0.46
45:AD:329:GLN:OE1	45:AD:329:GLN:HA	2.16	0.46
44:AG:96:LYS:O	45:AH:1:MET:HE2	2.15	0.46
44:AI:88:HIS:O	44:AI:91:GLN:HG2	2.15	0.46
44:AI:96:LYS:C	45:AJ:1:MET:HE2	2.35	0.46
44:AI:210:TYR:HH	44:AI:224:TYR:HE1	1.64	0.46
44:AI:268:MET:HG3	44:AI:378:ILE:CG2	2.45	0.46
44:AI:398:MET:HE3	45:AJ:346:PRO:HD2	1.95	0.46
45:AJ:107:THR:HG21	45:AJ:401:GLU:HB3	1.96	0.46
44:AK:115:VAL:O	44:AK:119:LEU:HD23	2.15	0.46
44:BA:332:ILE:HG23	44:BA:351:PHE:HE2	1.78	0.46
44:BC:119:LEU:HD12	44:BC:160:ASP:OD2	2.16	0.46
45:BD:61:PRO:HD2	45:BD:84:LEU:O	2.16	0.46
44:BE:72:PRO:HA	44:BE:94:SER:OG	2.16	0.46
44:BG:183:GLU:CD	44:BG:184:PRO:HD3	2.36	0.46
44:BG:221:ARG:NH1	45:BH:325:GLU:OE1	2.48	0.46
44:BG:250:VAL:HG12	44:BG:255:PHE:CE1	2.42	0.46
44:BG:257:THR:HA	45:BJ:397:TRP:CE2	2.50	0.46
45:BH:267:MET:SD	45:BH:299:MET:CE	3.03	0.46
45:BH:309:ARG:O	45:BH:372:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BH:352:SER:C	45:BH:353:ILE:HD12	2.36	0.46
44:BI:205:ASP:OD2	44:BI:304:LYS:N	2.46	0.46
45:BJ:293:MET:HE3	45:BJ:367:PHE:CB	2.45	0.46
44:BK:215:ARG:CZ	44:BK:299:ALA:HB1	2.45	0.46
44:BK:260:VAL:HG12	44:BK:262:TYR:O	2.15	0.46
45:BL:173:PRO:HG2	45:BL:380:ARG:NH1	2.22	0.46
44:BM:68:LEU:HD21	44:BM:118:CYS:SG	2.54	0.46
45:BN:19:LYS:HD3	45:BN:22:GLU:OE1	2.15	0.46
45:BN:28:HIS:HE1	45:BN:242:PHE:CE2	2.33	0.46
45:BN:165:GLU:OE2	45:BN:250:LEU:HD22	2.15	0.46
45:CB:11:GLN:HE21	48:CB:501:GDP:H3'	1.81	0.46
45:CB:314:SER:CA	45:CB:350:LYS:HB3	2.45	0.46
45:CB:324:LYS:HD2	45:CB:324:LYS:HA	1.68	0.46
44:CC:7:ILE:HD12	44:CC:122:ILE:HD11	1.97	0.46
45:CD:174:LYS:HD2	45:CD:175:VAL:HG13	1.96	0.46
45:CD:417:ASP:O	45:CD:421:GLU:HB2	2.14	0.46
45:CF:2:ARG:HE	45:CF:240:LEU:HD11	1.79	0.46
45:CF:60:VAL:O	45:CF:60:VAL:HG23	2.14	0.46
45:CF:190:HIS:CE1	45:CF:414:ASN:HD22	2.32	0.46
45:CJ:31:ASP:HB3	45:CJ:32:PRO:HD2	1.98	0.46
45:CL:334:GLN:HB2	45:CL:349:ILE:CD1	2.45	0.46
44:CM:54:SER:HA	44:CM:64:ARG:NH2	2.31	0.46
44:CM:175:PRO:HB2	44:CM:176:GLN:OE1	2.15	0.46
44:CM:317:MET:CE	44:CM:375:VAL:CG2	2.93	0.46
44:CM:434:GLU:O	44:CM:437:ILE:HG12	2.15	0.46
45:CN:65:LEU:HD22	45:CN:90:PHE:HE1	1.75	0.46
44:DA:209:ILE:HD13	44:DA:227:LEU:HB3	1.97	0.46
44:DA:405:VAL:HG12	44:DA:409:VAL:HG23	1.97	0.46
45:DB:30:ILE:CG2	45:DB:34:GLY:HA2	2.45	0.46
45:DB:101:TRP:HE1	45:DB:146:GLY:HA3	1.81	0.46
45:DD:64:ILE:HA	45:DD:89:ASN:ND2	2.30	0.46
45:DF:186:THR:HG23	45:DF:187:LEU:N	2.31	0.46
45:DF:325:GLU:HA	45:DF:328:GLU:CG	2.45	0.46
44:DG:69:ASP:OD2	44:DG:74:VAL:HG21	2.15	0.46
45:DH:8:GLN:NE2	45:DH:14:ASN:HA	2.28	0.46
45:DH:134:GLN:HG3	45:DH:134:GLN:O	2.15	0.46
45:DJ:44:LEU:HD23	45:DJ:47:ILE:HG13	1.98	0.46
45:DJ:196:ALA:O	45:DJ:264:HIS:NE2	2.49	0.46
45:DJ:267:MET:N	45:DJ:369:GLY:O	2.40	0.46
45:DL:11:GLN:O	45:DL:15:GLN:HG2	2.15	0.46
45:DL:66:MET:SD	45:DL:147:MET:HE3	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:261:PRO:HD3	44:DM:406:HIS:CE1	2.50	0.46
45:DN:207:LEU:HA	45:DN:210:ILE:HD12	1.96	0.46
45:DN:271:ALA:HB1	45:DN:272:PRO:HA	1.97	0.46
45:DN:306:ARG:HA	45:DN:340:TYR:CE1	2.50	0.46
44:EA:88:HIS:ND1	44:EA:90:GLU:HG2	2.30	0.46
44:EC:9:VAL:HB	44:EC:153:LEU:HD11	1.97	0.46
44:EC:51:THR:HG22	44:EC:52:PHE:CE1	2.50	0.46
44:EE:88:HIS:HB3	44:EE:91:GLN:HG2	1.97	0.46
44:EE:315:CYS:HB3	44:EE:351:PHE:HD1	1.80	0.46
44:EE:437:ILE:O	44:EE:437:ILE:HG13	2.14	0.46
45:EF:101:TRP:HD1	45:EF:145:SER:CB	2.28	0.46
45:EF:185:ALA:O	45:EF:189:VAL:HG23	2.15	0.46
44:EG:65:ALA:O	44:EG:91:GLN:HG2	2.15	0.46
45:EH:86:ARG:HG3	45:EH:89:ASN:HB2	1.97	0.46
45:EH:323:THR:O	45:EH:326:VAL:N	2.48	0.46
45:EJ:20:PHE:O	45:EJ:23:VAL:HG22	2.15	0.46
45:EJ:304:ASP:HB3	45:EJ:307:HIS:CE1	2.50	0.46
44:EK:319:TYR:CD1	44:EK:375:VAL:HB	2.50	0.46
45:EL:217:LEU:HD11	45:EL:220:PRO:CD	2.44	0.46
44:EM:103:PHE:HD1	44:EM:147:SER:CB	2.28	0.46
46:EM:501:GTP:H8	46:EM:501:GTP:O1A	1.98	0.46
45:EN:51:TYR:CE1	45:EN:61:PRO:HG3	2.50	0.46
45:EN:52:ASN:OD1	45:EN:62:ARG:NH2	2.47	0.46
45:EN:241:ARG:O	45:EN:241:ARG:HG2	2.14	0.46
44:FA:213:CYS:O	44:FA:217:LEU:HB2	2.15	0.46
44:FA:333:ALA:HA	44:FA:336:LYS:NZ	2.31	0.46
44:FC:262:TYR:OH	45:FF:391:ARG:O	2.31	0.46
44:FC:313:MET:HB2	44:FC:346:TRP:CH2	2.49	0.46
44:FC:332:ILE:HD12	44:FC:351:PHE:CE2	2.49	0.46
45:FD:6:HIS:CB	45:FD:21:TRP:HZ2	2.28	0.46
45:FD:105:HIS:ND1	45:FD:150:LEU:HD12	2.29	0.46
44:FE:326:LYS:HG3	44:FE:327:ASP:N	2.30	0.46
45:FJ:117:LEU:O	45:FJ:120:VAL:HG12	2.15	0.46
45:FJ:144:GLY:N	48:FJ:501:GDP:O1B	2.47	0.46
44:FK:141:VAL:HG11	44:FK:172:TYR:HA	1.97	0.46
44:FK:270:SER:HB2	44:FK:377:MET:O	2.15	0.46
44:FK:387:VAL:HA	44:FK:390:ARG:HH11	1.80	0.46
45:FL:107:THR:HG23	45:FL:108:GLU:N	2.30	0.46
45:FL:149:THR:O	45:FL:152:ILE:HB	2.15	0.46
45:FL:247:ASN:ND2	45:FL:247:ASN:C	2.67	0.46
44:FM:26:LEU:HD23	44:FM:363:VAL:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:91:GLN:O	44:GA:93:ILE:HD12	2.15	0.46
44:GA:226:ASN:HA	44:GA:229:ARG:HB2	1.96	0.46
45:GB:22:GLU:HG2	45:GB:81:PHE:CG	2.49	0.46
45:GB:274:THR:HB	45:GB:282:ARG:HH11	1.79	0.46
44:GC:270:SER:HB2	44:GC:378:ILE:HD13	1.97	0.46
44:GC:313:MET:HE3	44:GC:435:VAL:HG11	1.97	0.46
45:GD:44:LEU:HA	45:GD:47:ILE:CG2	2.45	0.46
45:GD:213:ARG:NH2	45:GD:297:LYS:HE2	2.29	0.46
45:GD:387:ALA:HA	45:GD:390:ARG:HE	1.80	0.46
44:GE:89:PRO:HD2	44:HE:280:LYS:HG2	1.96	0.46
44:GE:100:ALA:HB3	45:GF:251:ARG:HG3	1.96	0.46
44:GE:183:GLU:N	44:GE:183:GLU:OE1	2.46	0.46
44:GE:221:ARG:HH11	44:GE:221:ARG:HG3	1.81	0.46
44:GE:258:ASN:ND2	44:GE:352:LYS:HD2	2.29	0.46
45:GF:19:LYS:HG2	45:GF:226:ASN:C	2.36	0.46
45:GH:100:ASN:O	45:GH:103:LYS:N	2.49	0.46
44:GI:191:THR:HG22	44:GI:195:LEU:CD1	2.46	0.46
44:GI:305:CYS:SG	44:GI:306:ASP:N	2.88	0.46
45:GJ:342:VAL:HG21	45:GJ:344:TRP:NE1	2.30	0.46
44:GK:97:GLU:HG3	44:GK:105:ARG:HH22	1.80	0.46
44:GK:319:TYR:HA	44:GK:375:VAL:HB	1.96	0.46
44:GM:161:TYR:CB	44:GM:164:LYS:HG3	2.45	0.46
44:GM:228:ASN:HA	44:GM:231:ILE:HB	1.97	0.46
44:GM:242:LEU:HD11	44:GM:252:ILE:CD1	2.45	0.46
44:GM:252:ILE:HA	44:GM:255:PHE:CZ	2.50	0.46
44:HA:2:ARG:O	44:HA:2:ARG:HG2	2.15	0.46
44:HA:353:VAL:HG21	45:HD:177:ASP:HA	1.96	0.46
45:HB:34:GLY:N	45:HB:58:ARG:HH22	2.14	0.46
45:HB:412:GLU:HA	45:HB:415:MET:SD	2.55	0.46
44:HC:278:ALA:HA	44:HC:369:ALA:CB	2.46	0.46
45:HD:168:SER:O	45:HD:202:ILE:HB	2.14	0.46
45:HD:345:ILE:O	45:HD:345:ILE:HG23	2.16	0.46
44:HE:212:ILE:CD1	44:HE:300:ASN:HA	2.45	0.46
45:HF:69:GLU:OE1	45:HF:71:GLY:N	2.44	0.46
44:HG:344:VAL:HG11	44:HG:346:TRP:CH2	2.50	0.46
45:HH:187:LEU:HD11	45:HH:408:PHE:CZ	2.50	0.46
45:HH:320:ARG:HG3	45:HH:320:ARG:O	2.14	0.46
45:HH:345:ILE:O	45:HH:345:ILE:HG23	2.15	0.46
44:HI:118:CYS:O	44:HI:122:ILE:HG12	2.16	0.46
44:HI:176:GLN:HG2	44:HI:177:VAL:N	2.30	0.46
44:HI:210:TYR:CD2	45:HJ:324:LYS:HG3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:257:THR:HG22	45:HL:397:TRP:CE2	2.50	0.46
45:HJ:152:ILE:O	45:HJ:155:VAL:HG22	2.14	0.46
45:HJ:185:ALA:O	45:HJ:189:VAL:HG13	2.15	0.46
45:HL:211:CYS:HB3	45:HL:217:LEU:HD21	1.96	0.46
45:HN:282:ARG:HH22	45:HN:292:GLN:NE2	2.13	0.46
44:IA:176:GLN:HG3	45:IB:331:LEU:HD22	1.96	0.46
45:IB:16:ILE:HD12	45:IB:16:ILE:H	1.79	0.46
45:IB:101:TRP:HB3	45:IB:398:TYR:HE1	1.80	0.46
45:IB:323:THR:O	45:IB:326:VAL:HB	2.15	0.46
44:IC:307:PRO:HB2	44:IC:312:TYR:CE1	2.51	0.46
44:IC:353:VAL:HG13	44:IC:353:VAL:O	2.15	0.46
45:ID:290:THR:HA	45:ID:293:MET:HG2	1.97	0.46
44:IE:23:LEU:O	44:IE:27:GLU:HG3	2.14	0.46
44:IE:64:ARG:HD3	44:IE:129:CYS:SG	2.55	0.46
44:IE:144:GLY:O	44:IE:147:SER:OG	2.21	0.46
45:IF:288:GLU:O	45:IF:291:GLN:HG3	2.14	0.46
44:IG:222:PRO:O	45:IH:322:SER:HB2	2.15	0.46
44:IG:326:LYS:HG2	45:IJ:212:PHE:HZ	1.80	0.46
44:IG:349:THR:HG1	45:IJ:176:SER:HG	1.47	0.46
45:IH:236:VAL:HG13	45:IH:237:THR:HG23	1.96	0.46
45:IH:405:GLU:O	45:IH:409:THR:HG23	2.15	0.46
45:IJ:259:PRO:HG2	45:IJ:311:LEU:HD21	1.97	0.46
45:IJ:289:LEU:HD11	45:IJ:363:MET:HG3	1.95	0.46
45:IN:86:ARG:NH2	44:JK:280:LYS:HB2	2.31	0.46
45:IN:163:ILE:CD1	45:IN:250:LEU:HD12	2.46	0.46
44:JA:221:ARG:HG3	45:JB:325:GLU:OE2	2.15	0.46
44:JA:253:THR:HG23	45:JD:98:GLY:HA2	1.98	0.46
45:JB:3:GLU:CB	45:JB:62:ARG:HH12	2.15	0.46
44:JC:334:THR:O	44:JC:338:LYS:HG3	2.15	0.46
45:JD:382:ALA:HB2	45:JD:415:MET:HG2	1.96	0.46
45:JF:169:VAL:HG13	45:JF:169:VAL:O	2.15	0.46
45:JF:414:ASN:ND2	45:JF:414:ASN:O	2.45	0.46
45:JH:69:GLU:OE1	45:JH:71:GLY:N	2.48	0.46
44:JK:133:GLN:C	44:JK:252:ILE:HD11	2.36	0.46
45:JL:403:MET:HG3	45:JL:404:ASP:N	2.30	0.46
44:JM:101:ASN:OD1	45:JN:252:LYS:HG3	2.15	0.46
44:JM:186:ASN:OD1	44:JM:187:SER:N	2.48	0.46
44:JM:239:THR:O	44:JM:239:THR:HG22	2.14	0.46
45:JN:48:ASN:HA	45:JN:51:TYR:O	2.15	0.46
44:KA:202:VAL:HG21	44:KA:378:ILE:CD1	2.45	0.46
45:KB:86:ARG:NH1	45:LB:281:TYR:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:67:PHE:C	44:KC:68:LEU:HD22	2.36	0.46
44:KC:88:HIS:HB3	44:KC:91:GLN:CB	2.46	0.46
44:KC:288:VAL:CA	44:KC:291:ILE:HG12	2.40	0.46
45:KD:245:GLN:C	45:KD:246:LEU:HD12	2.35	0.46
44:KE:7:ILE:O	44:KE:137:VAL:HA	2.16	0.46
44:KG:72:PRO:HG2	45:KH:1:MET:HE1	1.97	0.46
44:KG:159:VAL:O	44:KG:159:VAL:HG22	2.14	0.46
44:KG:259:LEU:HD12	44:KG:380:ASN:HB2	1.96	0.46
44:KG:372:MET:HA	44:KG:372:MET:HE3	1.96	0.46
45:KH:145:SER:O	45:KH:149:THR:HB	2.14	0.46
45:KH:318:ARG:O	45:KH:363:MET:HE3	2.14	0.46
44:KI:373:ARG:HG3	44:KI:373:ARG:HH11	1.81	0.46
44:KK:80:THR:HG22	44:KK:80:THR:O	2.15	0.46
44:KK:319:TYR:CD1	44:KK:375:VAL:HG12	2.50	0.46
45:KL:293:MET:HG3	45:KL:367:PHE:HB2	1.97	0.46
44:KM:422:ARG:HH12	44:KM:426:ALA:HB2	1.77	0.46
45:KN:143:THR:HG22	48:KN:501:GDP:O1B	2.14	0.46
44:LA:103:PHE:HD2	44:LA:413:MET:HE3	1.80	0.46
44:LA:328:VAL:HG11	44:LA:353:VAL:HG13	1.96	0.46
44:LC:64:ARG:HD3	44:LC:129:CYS:SG	2.56	0.46
44:LE:66:VAL:HG13	44:LE:66:VAL:O	2.16	0.46
44:LE:68:LEU:HD11	44:LE:118:CYS:HB2	1.97	0.46
44:LE:262:TYR:CZ	45:LH:393:ALA:HA	2.50	0.46
45:LF:183:TYR:CE1	45:LF:388:MET:CE	2.98	0.46
44:LG:163:LYS:O	44:LG:163:LYS:HG3	2.15	0.46
45:LH:34:GLY:O	45:LH:58:ARG:HA	2.14	0.46
45:LH:267:MET:HE1	45:LH:301:CYS:CB	2.45	0.46
44:LI:38:SER:OG	44:LI:40:LYS:HG3	2.15	0.46
44:LI:99:ALA:HB3	44:LI:145:THR:HB	1.97	0.46
44:LI:174:SER:HB2	44:LI:207:GLU:HB2	1.97	0.46
45:LJ:256:ASN:HD22	45:LJ:350:LYS:HE3	1.79	0.46
45:LJ:405:GLU:OE2	45:LJ:406:MET:HG2	2.15	0.46
44:LK:46:ASP:OD2	44:LK:46:ASP:N	2.47	0.46
44:LK:268:MET:HB2	44:LK:379:SER:O	2.15	0.46
44:LK:272:TYR:CD2	44:LK:275:ILE:HD11	2.46	0.46
44:LK:340:THR:HG23	44:LK:341:ILE:HG13	1.97	0.46
45:LL:228:LEU:HG	45:LL:300:MET:HE1	1.98	0.46
45:LL:259:PRO:HG2	45:LL:311:LEU:HD23	1.97	0.46
45:LN:262:ARG:HA	45:LN:264:HIS:HD2	1.80	0.46
44:MA:223:THR:CG2	44:MA:224:TYR:H	2.29	0.46
44:MA:235:ILE:HD12	44:MA:235:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:135:ILE:HG13	45:MB:152:ILE:CD1	2.45	0.46
45:MD:3:GLU:HB2	45:MD:49:VAL:O	2.15	0.46
45:MD:23:VAL:HG23	45:MD:24:ILE:N	2.30	0.46
45:MF:5:VAL:HG22	45:MF:6:HIS:H	1.79	0.46
44:MG:181:VAL:HG22	45:MH:345:ILE:HD11	1.96	0.46
45:MH:11:GLN:O	45:MH:14:ASN:N	2.47	0.46
44:MI:256:GLN:OE1	45:ML:397:TRP:HZ2	1.98	0.46
45:MJ:58:ARG:NH2	45:MJ:60:VAL:HG12	2.29	0.46
45:ML:189:VAL:HG21	45:ML:378:PHE:CZ	2.50	0.46
44:MM:11:GLN:N	46:MM:501:GTP:O2B	2.47	0.46
45:MN:345:ILE:O	45:MN:345:ILE:HG23	2.15	0.46
44:NA:202:VAL:HA	44:NA:268:MET:O	2.15	0.46
44:NA:224:TYR:CA	44:NA:227:LEU:HD13	2.34	0.46
44:NA:263:PRO:HB3	45:ND:396:HIS:CD2	2.50	0.46
45:NB:5:VAL:HG22	45:NB:133:PHE:CD1	2.50	0.46
44:NC:149:LEU:O	44:NC:153:LEU:HD23	2.15	0.46
44:NC:287:SER:O	44:NC:290:GLU:HG2	2.15	0.46
45:ND:190:HIS:HD2	45:ND:414:ASN:HB3	1.80	0.46
45:ND:304:ASP:O	45:ND:373:ALA:HB1	2.15	0.46
45:NF:15:GLN:O	45:NF:18:ALA:HB3	2.15	0.46
45:NF:165:GLU:HA	45:NF:198:GLU:O	2.15	0.46
44:NG:318:MET:HG3	44:NG:354:GLY:HA3	1.97	0.46
44:NI:88:HIS:HB3	44:NI:91:GLN:CG	2.45	0.46
44:NI:371:VAL:HG22	44:NI:372:MET:N	2.30	0.46
45:NJ:167:PHE:CZ	45:NJ:233:MET:HG3	2.50	0.46
44:NK:306:ASP:HB3	44:NK:309:HIS:ND1	2.30	0.46
45:NN:4:ILE:HD11	45:NN:50:TYR:CZ	2.49	0.46
45:NN:261:PRO:CD	45:NN:262:ARG:N	2.75	0.46
44:OA:21:TRP:HA	44:OA:21:TRP:CE3	2.51	0.46
44:OA:276:ILE:HG12	44:OA:281:ALA:HB2	1.97	0.46
44:OA:284:GLU:HG3	44:OA:286:LEU:HD23	1.96	0.46
45:OD:305:PRO:HB2	45:OD:310:TYR:HE1	1.80	0.46
44:OE:316:SER:N	44:OE:378:ILE:O	2.47	0.46
45:OF:48:ASN:HA	45:OF:51:TYR:O	2.14	0.46
44:OG:326:LYS:HE3	45:OJ:220:PRO:HG3	1.97	0.46
45:OH:86:ARG:CZ	45:PH:281:TYR:HB3	2.46	0.46
45:OJ:54:ALA:CA	45:PJ:283:ALA:HB2	2.28	0.46
45:OJ:143:THR:N	48:OJ:501:GDP:O1B	2.47	0.46
45:OJ:184:ASN:OD1	45:OJ:185:ALA:N	2.48	0.46
44:OK:17:GLY:O	44:OK:20:CYS:N	2.47	0.46
44:OK:99:ALA:HB3	44:OK:145:THR:CB	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:311:LEU:HD23	45:OL:370:ASN:O	2.15	0.46
45:OL:362:LYS:CD	45:OL:363:MET:SD	3.00	0.46
45:OL:406:MET:O	45:OL:409:THR:OG1	2.18	0.46
44:OM:73:THR:HG22	45:ON:46:ARG:HH21	1.80	0.46
44:OM:77:GLU:HA	44:OM:80:THR:HG1	1.79	0.46
44:OM:179:THR:O	45:ON:350:LYS:HG3	2.15	0.46
44:OM:181:VAL:O	44:OM:181:VAL:HG22	2.16	0.46
45:ON:328:GLU:O	45:ON:332:ASN:N	2.30	0.46
44:PA:69:ASP:OD2	44:PA:74:VAL:HG21	2.14	0.46
44:PA:195:LEU:HD13	44:PA:428:LEU:HD21	1.97	0.46
44:PA:237:SER:HA	44:PA:320:ARG:NH1	2.28	0.46
44:PA:319:TYR:HE1	44:PA:375:VAL:CG2	2.29	0.46
44:PA:319:TYR:CE1	44:PA:375:VAL:HG23	2.50	0.46
44:PA:332:ILE:HD12	44:PA:335:ILE:CG1	2.45	0.46
45:PB:117:LEU:HD11	45:PB:158:GLU:OE2	2.16	0.46
45:PB:372:THR:HG21	45:PB:426:GLN:HB2	1.97	0.46
44:PC:4:VAL:O	44:PC:4:VAL:HG23	2.15	0.46
44:PC:221:ARG:HH22	45:PD:325:GLU:H	1.61	0.46
45:PD:265:PHE:O	45:PD:374:ILE:HD13	2.16	0.46
45:PD:269:GLY:N	45:PD:367:PHE:O	2.30	0.46
44:PE:324:VAL:HG11	45:PH:220:PRO:O	2.14	0.46
45:PF:248:SER:HB2	45:PF:252:LYS:HD3	1.97	0.46
45:PF:404:ASP:OD1	45:PF:407:GLU:HG3	2.14	0.46
45:PH:310:TYR:C	45:PH:311:LEU:HD23	2.36	0.46
45:PJ:105:HIS:HB2	45:PJ:146:GLY:CA	2.45	0.46
45:PJ:116:VAL:HA	45:PJ:119:VAL:HG12	1.97	0.46
45:PJ:313:ALA:HB1	45:PJ:368:VAL:O	2.15	0.46
45:PJ:313:ALA:HB2	45:PJ:369:GLY:HA2	1.97	0.46
45:PL:35:THR:HB	45:PL:37:HIS:CE1	2.51	0.46
45:PL:86:ARG:HG2	45:PL:89:ASN:CG	2.35	0.46
45:PL:102:ALA:CB	45:PL:403:MET:HG2	2.46	0.46
44:PM:188:ILE:CG2	44:PM:421:ALA:HB1	2.44	0.46
44:PM:344:VAL:HG11	44:PM:346:TRP:CZ2	2.51	0.46
44:QA:8:HIS:HB2	44:QA:67:PHE:CD1	2.51	0.46
44:QA:206:ASN:OD1	46:QA:501:GTP:N2	2.48	0.46
44:QA:248:LEU:HD23	44:QA:354:GLY:CA	2.43	0.46
45:QB:62:ARG:HB2	45:QB:123:GLU:OE1	2.14	0.46
45:QB:375:GLN:HG3	45:QB:379:LYS:HD2	1.97	0.46
44:QC:132:LEU:HD22	44:QC:164:LYS:HG3	1.96	0.46
44:QC:219:ILE:O	44:QC:222:PRO:HD3	2.16	0.46
45:QD:165:GLU:HA	45:QD:198:GLU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:36:TYR:CE2	45:QF:44:LEU:HD11	2.50	0.46
45:QH:65:LEU:HD21	45:QH:85:PHE:HE2	1.80	0.46
45:QH:374:ILE:HD11	45:QH:422:TYR:OH	2.15	0.46
44:QI:387:VAL:HA	44:QI:390:ARG:NH1	2.29	0.46
45:QL:215:LEU:HD13	45:QL:217:LEU:CD2	2.44	0.46
45:QL:260:PHE:HB3	45:QL:261:PRO:HD2	1.96	0.46
44:QM:326:LYS:CD	45:QN:220:PRO:HD2	2.45	0.46
44:RA:72:PRO:HG3	44:RA:95:GLY:O	2.14	0.46
44:RC:256:GLN:NE2	45:RD:397:TRP:HZ2	2.13	0.46
45:RD:2:ARG:C	45:RD:131:GLN:HG2	2.36	0.46
45:RD:257:LEU:HD11	45:RD:350:LYS:CD	2.44	0.46
45:RD:395:LEU:O	45:RD:399:THR:HG23	2.14	0.46
44:RE:175:PRO:HD2	44:RE:207:GLU:OE1	2.15	0.46
44:RE:203:MET:CB	44:RE:269:LEU:HD23	2.45	0.46
45:RF:3:GLU:HB3	45:RF:49:VAL:HA	1.97	0.46
44:RG:205:ASP:OD2	44:RG:304:LYS:N	2.46	0.46
44:RG:332:ILE:HD12	44:RG:332:ILE:H	1.81	0.46
45:RH:106:TYR:O	45:RH:110:ALA:HB3	2.16	0.46
45:RH:262:ARG:CG	45:RH:263:LEU:HD12	2.39	0.46
44:RI:102:ASN:ND2	44:RI:411:GLU:HG3	2.29	0.46
44:RI:169:PHE:CE1	44:RI:202:VAL:HG21	2.51	0.46
44:RI:301:MET:HE3	44:RI:302:MET:N	2.30	0.46
45:RJ:19:LYS:HG2	45:RJ:227:HIS:HA	1.96	0.46
45:RJ:178:THR:HB	45:RJ:181:GLU:HG3	1.98	0.46
44:RK:328:VAL:HG11	44:RK:353:VAL:HG21	1.96	0.46
45:RL:334:GLN:HG3	45:RL:341:PHE:CZ	2.50	0.46
44:RM:203:MET:H	44:RM:269:LEU:CA	2.28	0.46
45:RN:27:GLU:OE2	45:RN:241:ARG:NH2	2.48	0.46
45:RN:44:LEU:HD22	45:RN:47:ILE:HD13	1.96	0.46
45:SB:67:ASP:O	45:SB:92:PHE:HA	2.13	0.46
45:SB:270:PHE:HZ	45:SB:364:ALA:HB1	1.78	0.46
44:SC:14:ILE:CG2	44:SC:74:VAL:HG22	2.45	0.46
44:SC:104:ALA:HB2	44:SC:413:MET:CE	2.45	0.46
44:SC:329:ASN:HB3	45:SD:175:VAL:HG21	1.98	0.46
45:SF:136:THR:HG21	45:SF:233:MET:HE3	1.96	0.46
45:SF:164:MET:HE1	45:SF:195:ASN:O	2.15	0.46
44:SG:11:GLN:CB	46:SG:501:GTP:PB	3.03	0.46
44:SG:31:GLN:CG	44:SG:37:PRO:HG3	2.43	0.46
45:SH:301:CYS:HB3	45:SH:377:MET:CE	2.44	0.46
44:SI:155:GLU:HA	44:SI:197:HIS:ND1	2.30	0.46
44:SI:206:ASN:O	44:SI:209:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:261:PRO:CG	44:SI:313:MET:HE2	2.41	0.46
45:SJ:3:GLU:OE2	45:SJ:128:ASP:HB2	2.15	0.46
45:SJ:405:GLU:C	45:SJ:409:THR:HG23	2.36	0.46
44:SK:67:PHE:C	44:SK:68:LEU:HD12	2.35	0.46
45:SL:199:CYS:HB3	45:SL:265:PHE:CD2	2.50	0.46
44:SM:210:TYR:CE1	44:SM:227:LEU:HD21	2.51	0.46
44:SM:248:LEU:CB	44:SM:355:ILE:HB	2.45	0.46
44:SM:320:ARG:HA	44:SM:356:ASN:O	2.15	0.46
44:SM:372:MET:HG3	44:SM:373:ARG:HG3	1.98	0.46
45:SN:161:ASP:OD1	45:SN:162:ARG:N	2.48	0.46
44:TA:106:GLY:O	44:TA:149:LEU:HD22	2.14	0.46
44:TA:143:GLY:HA3	46:TA:501:GTP:O3B	2.15	0.46
45:TB:86:ARG:HB3	45:TB:89:ASN:CB	2.46	0.46
45:TB:213:ARG:HG2	45:TB:213:ARG:HH11	1.79	0.46
45:TB:214:THR:O	45:TB:275:SER:HB3	2.15	0.46
45:TB:309:ARG:O	45:TB:372:THR:HG22	2.14	0.46
45:TB:323:THR:CG2	44:TC:223:THR:HA	2.45	0.46
45:TB:378:PHE:CB	45:TB:419:VAL:HG21	2.45	0.46
44:TC:8:HIS:HD2	44:TC:138:PHE:HB2	1.78	0.46
44:TC:259:LEU:O	44:TC:261:PRO:HD3	2.16	0.46
44:TC:408:TYR:C	44:TC:413:MET:HG3	2.35	0.46
45:TD:20:PHE:O	45:TD:24:ILE:HG12	2.15	0.46
45:TD:317:PHE:CD1	45:TD:365:VAL:HG22	2.50	0.46
44:TE:88:HIS:HB3	44:TE:91:GLN:CB	2.45	0.46
44:TE:226:ASN:HA	44:TE:229:ARG:HH12	1.78	0.46
45:TF:172:SER:CB	45:TF:205:GLU:H	2.28	0.46
44:TG:54:SER:HB3	44:TG:64:ARG:NE	2.30	0.46
44:TG:195:LEU:HA	44:TG:266:HIS:HE1	1.79	0.46
44:TG:387:VAL:HG23	44:TG:388:PHE:N	2.30	0.46
45:TH:3:GLU:OE2	45:TH:128:ASP:N	2.47	0.46
45:TH:222:TYR:HA	45:TH:225:LEU:HB2	1.97	0.46
45:TJ:113:ILE:HA	45:TJ:116:VAL:HG12	1.96	0.46
45:TL:99:ASN:HA	45:TL:142:GLY:HA3	1.96	0.46
45:TL:153:SER:O	45:TL:156:ARG:HB3	2.15	0.46
44:TM:66:VAL:HG13	44:TM:66:VAL:O	2.16	0.46
44:TM:119:LEU:HD21	44:TM:156:ARG:HD2	1.98	0.46
44:TM:184:PRO:O	44:TM:188:ILE:HG12	2.15	0.46
44:TM:268:MET:CE	44:TM:268:MET:HA	2.45	0.46
45:TN:423:GLN:O	45:TN:426:GLN:HB3	2.15	0.46
44:UA:280:LYS:HD3	44:UA:283:HIS:ND1	2.30	0.46
44:UA:318:MET:CE	44:UA:376:CYS:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:189:VAL:O	45:UB:193:VAL:HG12	2.14	0.46
45:UB:242:PHE:HD1	45:UB:356:ILE:HG13	1.78	0.46
44:UC:242:LEU:HD13	44:UC:252:ILE:HD12	1.97	0.46
45:UD:4:ILE:HG22	45:UD:131:GLN:HB3	1.97	0.46
45:UD:100:ASN:ND2	45:UD:102:ALA:HB3	2.30	0.46
45:UD:113:ILE:HA	45:UD:116:VAL:HG12	1.96	0.46
45:UD:255:VAL:HA	44:UE:407:TRP:CZ3	2.50	0.46
45:UD:342:VAL:HG13	45:UD:345:ILE:CG2	2.45	0.46
44:UE:54:SER:HB3	44:UE:64:ARG:CZ	2.45	0.46
44:UE:105:ARG:O	44:UE:110:ILE:HG12	2.15	0.46
44:UE:362:VAL:HG22	44:UE:363:VAL:N	2.29	0.46
45:UF:403:MET:HG3	45:UF:408:PHE:CE2	2.50	0.46
44:UG:353:VAL:N	45:UH:177:ASP:O	2.46	0.46
45:UH:284:LEU:HB3	45:UH:363:MET:HE1	1.96	0.46
45:UJ:324:LYS:HD2	44:UK:210:TYR:CG	2.51	0.46
44:UK:104:ALA:CB	44:UK:411:GLU:HB2	2.44	0.46
45:UL:334:GLN:HB2	45:UL:349:ILE:HD13	1.97	0.46
45:UL:383:GLU:HA	45:UL:386:THR:OG1	2.16	0.46
44:UM:190:SER:O	44:UM:194:LEU:HG	2.16	0.46
44:UM:213:CYS:CB	44:UM:217:LEU:HB2	2.44	0.46
44:UM:315:CYS:SG	44:UM:317:MET:HE2	2.55	0.46
45:UN:30:ILE:CD1	45:UN:36:TYR:HB2	2.45	0.46
45:UN:180:VAL:O	45:UN:180:VAL:HG22	2.15	0.46
45:UN:256:ASN:C	45:UN:257:LEU:HD12	2.36	0.46
44:VA:286:LEU:HD13	44:VA:371:VAL:CG2	2.42	0.46
44:VA:287:SER:OG	44:VA:290:GLU:HG2	2.16	0.46
45:VB:325:GLU:CA	45:VB:328:GLU:HG2	2.37	0.46
44:VC:100:ALA:O	45:VD:255:VAL:HG21	2.15	0.46
44:VC:174:SER:HB2	44:VC:177:VAL:HB	1.96	0.46
44:VC:259:LEU:HD13	44:VC:268:MET:HG3	1.98	0.46
44:VE:115:VAL:CG2	44:VE:156:ARG:HD2	2.45	0.46
44:VE:185:TYR:HE2	44:VE:404:PHE:HB2	1.80	0.46
44:VG:224:TYR:CE1	45:VH:323:THR:HG21	2.50	0.46
45:VH:151:LEU:CD2	45:VH:155:VAL:HG21	2.45	0.46
45:VH:221:THR:HG22	45:VH:223:GLY:H	1.79	0.46
44:VI:23:LEU:HD23	44:VI:236:SER:HB2	1.96	0.46
44:VI:175:PRO:HD3	44:VI:205:ASP:OD2	2.15	0.46
45:VJ:260:PHE:HB3	45:VJ:261:PRO:HD2	1.97	0.46
45:VL:212:PHE:O	45:VL:216:LYS:HA	2.15	0.46
44:VM:100:ALA:HB1	45:VN:252:LYS:N	2.30	0.46
45:WB:342:VAL:HG13	45:WB:345:ILE:CG2	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:35:THR:O	45:WD:37:HIS:CD2	2.69	0.46
45:WD:207:LEU:O	45:WD:210:ILE:HB	2.16	0.46
44:WE:181:VAL:HG22	44:WE:181:VAL:O	2.16	0.46
44:WE:275:ILE:HG23	44:WE:368:LEU:CD1	2.45	0.46
45:WF:2:ARG:HH12	45:WF:46:ARG:NH1	2.13	0.46
45:WF:36:TYR:CD2	45:WF:44:LEU:HD11	2.51	0.46
44:WG:268:MET:HB3	44:WG:380:ASN:CB	2.44	0.46
44:WG:278:ALA:CB	44:WG:369:ALA:HB2	2.39	0.46
44:WI:11:GLN:NE2	45:WJ:246:LEU:HA	2.30	0.46
44:WI:209:ILE:HG13	44:WI:210:TYR:N	2.31	0.46
44:WI:276:ILE:HG23	44:WI:281:ALA:CB	2.45	0.46
44:WI:292:THR:O	44:WI:295:ALA:HB3	2.16	0.46
45:WJ:151:LEU:HD23	45:WJ:155:VAL:CG2	2.45	0.46
45:WJ:342:VAL:HG13	45:WJ:345:ILE:CG2	2.41	0.46
44:WK:1:MET:HE1	45:WN:94:GLN:CB	2.45	0.46
44:WK:100:ALA:HB1	45:WL:252:LYS:CA	2.44	0.46
44:WK:195:LEU:HD13	44:WK:267:PHE:CZ	2.51	0.46
44:WK:320:ARG:NE	44:WK:358:GLN:O	2.45	0.46
45:WL:178:THR:H	45:WL:181:GLU:CD	2.19	0.46
44:WM:223:THR:HG23	44:WM:225:THR:OG1	2.16	0.46
45:WN:251:ARG:O	45:WN:254:ALA:HB3	2.15	0.46
1:6H:382:PHE:CD1	44:FK:364:PRO:CD	2.92	0.46
3:0B:71:ILE:CD1	45:JH:279:GLN:HG2	2.31	0.46
8:0G:101:TYR:CE1	45:JN:40:SER:HB3	2.50	0.46
5:1D:35:LYS:NZ	44:DG:84:ARG:HD3	2.26	0.46
9:1H:86:LYS:HB3	44:HK:282:TYR:OH	2.14	0.46
9:1H:275:TYR:CE2	45:HF:362:LYS:HG3	2.50	0.46
22:1L:406:ARG:HD2	45:CF:361:LEU:O	2.15	0.46
25:1P:395:GLN:OE1	44:TA:362:VAL:HG21	2.15	0.46
13:1T:100:ARG:HH21	44:MC:414:GLU:CG	2.28	0.46
28:2C:4:TYR:CB	45:LJ:359:LYS:HZ1	2.27	0.46
31:2H:172:SER:HA	44:AA:322:ASP:OD2	2.15	0.46
26:2R:70:THR:HA	45:MH:320:ARG:NH1	2.28	0.46
26:2R:392:LEU:HD12	45:EH:276:ARG:HH22	1.79	0.46
15:2V:51:LEU:CD2	44:LE:116:ASP:HB3	2.45	0.46
22:3L:45:ARG:NE	45:BB:362:LYS:HB3	2.27	0.46
26:3R:114:SER:HB2	45:BN:360:GLY:HA3	1.97	0.46
26:3R:233:LYS:HG3	45:BN:74:ASP:OD2	2.14	0.46
31:4H:187:LEU:HD12	45:AL:279:GLN:CB	2.46	0.46
37:5C:79:LEU:CD2	45:NJ:245:GLN:HE22	2.28	0.46
37:5D:39:ARG:HD2	44:KK:260:VAL:CG2	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5D:54:ARG:H	44:KK:438:GLU:N	2.13	0.46
38:5F:123:ARG:HA	44:OE:370:LYS:O	2.15	0.46
39:5J:109:TYR:C	39:5J:112:PRO:HD2	2.34	0.46
11:5Q:48:GLU:HG3	11:5Q:161:ARG:HG2	1.96	0.46
35:5R:255:VAL:HG22	35:5R:256:LEU:N	2.30	0.46
35:5R:519:LYS:HE3	35:5R:522:VAL:HG11	1.98	0.46
35:5R:550:VAL:HA	35:5R:553:ILE:CG2	2.44	0.46
41:6G:92:LEU:O	44:UK:96:LYS:NZ	2.48	0.46
41:6G:235:ILE:HD11	44:UE:95:GLY:HA2	1.97	0.46
41:6G:305:THR:CB	45:UB:114:ASP:HB2	2.44	0.46
11:6Q:3:LYS:HG3	11:6Q:4:ASN:OD1	2.15	0.46
11:6Q:100:ARG:HG3	11:6Q:152:LEU:CD1	2.46	0.46
35:6R:253:ARG:HG3	44:CM:42:ILE:HD12	1.97	0.46
35:7R:318:TYR:CD2	35:7R:319:PRO:HD2	2.50	0.46
42:8N:112:UNK:HA	42:8N:115:UNK:CB	2.45	0.46
44:AA:68:LEU:HD21	44:AA:118:CYS:SG	2.56	0.46
45:AB:62:ARG:O	45:AB:62:ARG:HG3	2.16	0.46
44:AC:22:GLU:HG3	44:AC:83:TYR:OH	2.15	0.46
45:AD:28:HIS:O	45:AD:43:GLN:HB3	2.15	0.46
45:AD:135:ILE:HG13	45:AD:152:ILE:HD11	1.97	0.46
45:AD:152:ILE:HA	45:AD:155:VAL:CG2	2.45	0.46
45:AF:60:VAL:HB	45:AF:86:ARG:HH11	1.80	0.46
45:AF:103:LYS:O	45:AF:108:GLU:HB2	2.16	0.46
45:AF:398:TYR:CD1	45:AF:408:PHE:HZ	2.34	0.46
44:AG:91:GLN:O	44:AG:93:ILE:HD12	2.15	0.46
44:AG:175:PRO:HB3	44:AG:390:ARG:CZ	2.45	0.46
44:AI:181:VAL:HG12	45:AJ:256:ASN:CB	2.44	0.46
45:AJ:65:LEU:HD11	45:AJ:85:PHE:CE2	2.50	0.46
44:AK:130:THR:HG23	44:AK:131:GLY:N	2.30	0.46
45:AL:148:GLY:O	45:AL:152:ILE:HG12	2.14	0.46
45:AL:308:GLY:C	45:AL:309:ARG:HG3	2.35	0.46
44:AM:145:THR:HG22	46:AM:501:GTP:PG	2.54	0.46
45:AN:242:PHE:HB3	45:AN:356:ILE:HG12	1.96	0.46
44:BA:63:PRO:HG2	44:BA:87:PHE:CD1	2.50	0.46
44:BA:291:ILE:HG21	44:BA:373:ARG:NH2	2.31	0.46
44:BA:384:ILE:O	44:BA:384:ILE:HG13	2.15	0.46
44:BA:406:HIS:HD1	44:BA:407:TRP:N	2.13	0.46
44:BA:413:MET:CG	44:BA:417:GLU:HG3	2.46	0.46
44:BC:132:LEU:HD21	44:BC:135:PHE:CE2	2.50	0.46
44:BC:256:GLN:CD	45:BF:397:TRP:HZ2	2.19	0.46
44:BG:9:VAL:CG2	44:BG:139:ASN:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:101:ASN:HA	44:BG:144:GLY:CA	2.44	0.46
44:BG:313:MET:HE3	44:BG:435:VAL:HG11	1.96	0.46
45:BH:99:ASN:HA	45:BH:142:GLY:CA	2.29	0.46
44:BI:153:LEU:O	44:BI:157:LEU:HD23	2.16	0.46
45:BJ:325:GLU:HA	45:BJ:328:GLU:HG2	1.97	0.46
45:BL:183:TYR:CE2	45:BL:388:MET:HB3	2.50	0.46
45:BL:299:MET:HG3	45:BL:305:PRO:HG3	1.97	0.46
45:BL:397:TRP:O	45:BL:400:GLY:N	2.47	0.46
44:BM:14:ILE:HD13	44:BM:75:ILE:HD11	1.96	0.46
44:BM:88:HIS:ND1	44:BM:90:GLU:HG2	2.30	0.46
44:BM:182:VAL:HG22	44:BM:182:VAL:O	2.15	0.46
45:BN:105:HIS:HD2	45:BN:149:THR:HG23	1.80	0.46
45:BN:417:ASP:O	45:BN:421:GLU:HG3	2.15	0.46
44:CA:30:ILE:HD13	44:CA:36:MET:HE1	1.94	0.46
44:CA:270:SER:HB3	44:CA:378:ILE:HD13	1.96	0.46
44:CC:270:SER:HB3	44:CC:378:ILE:HD13	1.96	0.46
45:CD:1:MET:C	45:CD:2:ARG:HG2	2.36	0.46
45:CD:61:PRO:CG	45:CD:84:LEU:HB3	2.45	0.46
45:CF:18:ALA:CB	45:CF:76:VAL:HG23	2.46	0.46
45:CF:317:PHE:HA	45:CF:365:VAL:CG2	2.33	0.46
44:CG:345:ASP:HB3	44:CG:439:THR:HG22	1.96	0.46
44:CG:390:ARG:HG3	44:CG:391:LEU:HD12	1.96	0.46
45:CH:30:ILE:HG23	45:CH:30:ILE:O	2.14	0.46
45:CH:268:ILE:C	45:CH:299:MET:HE1	2.34	0.46
44:CI:115:VAL:CG2	44:CI:156:ARG:HD2	2.45	0.46
45:CJ:151:LEU:O	45:CJ:155:VAL:HG23	2.16	0.46
45:CJ:331:LEU:HD21	44:CK:176:GLN:HG3	1.97	0.46
45:CL:248:SER:OG	45:CL:253:LEU:HD12	2.14	0.46
45:CL:360:GLY:O	45:CL:361:LEU:HD22	2.15	0.46
45:DB:1:MET:C	45:DB:2:ARG:HG2	2.36	0.46
45:DB:167:PHE:HE1	45:DB:200:MET:HE1	1.80	0.46
44:DC:23:LEU:HD11	44:DC:361:THR:HG23	1.97	0.46
44:DC:244:PHE:HE2	44:DC:358:GLN:HG2	1.79	0.46
44:DC:352:LYS:HA	45:DD:177:ASP:O	2.15	0.46
45:DD:267:MET:HE2	45:DD:299:MET:HB3	1.97	0.46
44:DE:114:ILE:O	44:DE:114:ILE:HG22	2.15	0.46
45:DF:101:TRP:HD1	45:DF:145:SER:OG	1.97	0.46
45:DF:178:THR:N	45:DF:181:GLU:OE2	2.40	0.46
45:DF:192:LEU:O	45:DF:196:ALA:N	2.31	0.46
45:DF:257:LEU:HB3	45:DF:266:PHE:CZ	2.50	0.46
44:DG:223:THR:CG2	44:DG:225:THR:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:4:ILE:HG22	45:DH:132:GLY:N	2.29	0.46
45:DH:285:THR:HB	45:DH:287:PRO:HD2	1.98	0.46
45:DH:313:ALA:HB1	45:DH:369:GLY:HA2	1.96	0.46
45:DH:317:PHE:HB3	45:DH:321:MET:CE	2.45	0.46
45:DH:342:VAL:HG13	45:DH:345:ILE:CG2	2.44	0.46
44:DI:194:LEU:HD21	44:DI:198:THR:HB	1.97	0.46
45:DJ:323:THR:HG21	44:DK:224:TYR:CD2	2.51	0.46
44:DK:114:ILE:HG22	44:DK:114:ILE:O	2.16	0.46
44:DK:184:PRO:HA	44:DK:187:SER:HB2	1.97	0.46
44:DK:192:HIS:HA	44:DK:195:LEU:CD2	2.21	0.46
45:DL:378:PHE:HB3	45:DL:415:MET:CE	2.45	0.46
44:DM:54:SER:HA	44:DM:64:ARG:NH2	2.29	0.46
44:DM:75:ILE:HG22	44:DM:79:ARG:HD3	1.97	0.46
45:DN:95:THR:HG21	45:DN:108:GLU:OE1	2.15	0.46
45:EB:52:ASN:N	45:EB:60:VAL:O	2.32	0.46
45:EB:132:GLY:HA2	45:EB:162:ARG:HB3	1.97	0.46
44:EC:18:ASN:O	44:EC:22:GLU:OE1	2.34	0.46
44:EC:191:THR:HA	44:EC:194:LEU:CG	2.45	0.46
44:EC:319:TYR:HB3	44:EC:323:VAL:HG11	1.97	0.46
45:ED:139:LEU:HD13	45:ED:168:SER:HB3	1.98	0.46
44:EE:137:VAL:HG11	44:EE:154:LEU:HD21	1.96	0.46
45:EF:16:ILE:HD13	45:EF:226:ASN:HD22	1.81	0.46
45:EF:208:TYR:CE1	45:EF:225:LEU:HD11	2.50	0.46
45:EF:410:GLU:O	45:EF:413:SER:OG	2.21	0.46
44:EG:27:GLU:HB2	44:EG:361:THR:HG21	1.98	0.46
44:EG:306:ASP:O	44:EG:383:ALA:HB1	2.15	0.46
45:EH:199:CYS:HB3	45:EH:266:PHE:CD2	2.51	0.46
44:EI:66:VAL:HG13	44:EI:125:LEU:HD12	1.98	0.46
44:EI:102:ASN:CG	44:EI:105:ARG:HG3	2.36	0.46
44:EI:244:PHE:CE2	44:EI:358:GLN:HG2	2.50	0.46
45:EJ:189:VAL:HB	45:EJ:415:MET:HE2	1.97	0.46
44:EK:183:GLU:HG2	44:EK:184:PRO:CD	2.45	0.46
44:EK:253:THR:O	44:EK:257:THR:HG23	2.16	0.46
45:EN:136:THR:CB	45:EN:167:PHE:HB2	2.45	0.46
45:EN:325:GLU:HA	45:EN:328:GLU:HG2	1.97	0.46
44:FA:62:VAL:HG12	44:FA:63:PRO:O	2.14	0.46
44:FA:203:MET:HB2	44:FA:303:ALA:HB2	1.97	0.46
44:FA:215:ARG:NH2	44:FA:299:ALA:HB1	2.30	0.46
44:FA:258:ASN:OD1	44:FA:259:LEU:N	2.49	0.46
45:FB:150:LEU:HA	45:FB:153:SER:HB3	1.96	0.46
44:FC:182:VAL:C	44:FC:184:PRO:HD2	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:323:THR:C	45:FD:326:VAL:HG12	2.36	0.46
45:FF:329:GLN:O	45:FF:333:VAL:HG23	2.16	0.46
44:FG:265:ILE:HG12	44:FG:432:TYR:HE1	1.81	0.46
44:FG:267:PHE:HE1	44:FG:388:PHE:HZ	1.63	0.46
44:FG:346:TRP:O	44:FG:346:TRP:HE3	1.99	0.46
45:FH:16:ILE:HD13	45:FH:226:ASN:OD1	2.15	0.46
45:FH:33:THR:HG21	45:FH:58:ARG:NH2	2.30	0.46
45:FH:68:LEU:HG	45:FH:96:GLY:CA	2.46	0.46
45:FH:86:ARG:HH11	45:GH:281:TYR:HB2	1.80	0.46
44:FK:215:ARG:HH22	44:FK:300:ASN:HA	1.80	0.46
45:FL:178:THR:HG22	45:FL:180:VAL:HG12	1.96	0.46
44:FM:183:GLU:N	44:FM:184:PRO:CD	2.79	0.46
44:FM:189:LEU:HD11	44:FM:418:PHE:CE1	2.50	0.46
44:GA:101:ASN:CA	44:GA:144:GLY:HA3	2.32	0.46
44:GA:153:LEU:O	44:GA:157:LEU:HG	2.15	0.46
44:GA:320:ARG:CG	44:GA:360:PRO:HG3	2.45	0.46
45:GB:130:LEU:HD23	45:GB:162:ARG:HD2	1.98	0.46
45:GB:143:THR:HG23	45:GB:144:GLY:N	2.31	0.46
45:GF:5:VAL:HG23	45:GF:62:ARG:CG	2.37	0.46
45:GF:172:SER:OG	45:GF:205:GLU:HG3	2.14	0.46
45:GF:286:VAL:HG21	45:GF:325:GLU:CD	2.35	0.46
45:GF:313:ALA:HA	45:GF:369:GLY:CA	2.46	0.46
45:GF:390:ARG:HG3	45:GF:391:ARG:N	2.31	0.46
45:GH:73:MET:O	45:GH:76:VAL:HG12	2.16	0.46
45:GH:182:PRO:O	45:GH:185:ALA:N	2.48	0.46
44:GI:89:PRO:HG2	44:HI:280:LYS:CB	2.45	0.46
45:GJ:105:HIS:HD1	45:GJ:106:TYR:HD1	1.61	0.46
45:GJ:109:GLY:HA2	45:GJ:147:MET:HE3	1.97	0.46
45:GJ:324:LYS:O	45:GJ:327:ASP:N	2.48	0.46
44:GK:292:THR:O	44:GK:295:ALA:HB3	2.15	0.46
45:GL:101:TRP:HE1	45:GL:105:HIS:CB	2.28	0.46
45:GL:182:PRO:HG3	45:GL:384:GLN:CD	2.36	0.46
44:GM:31:GLN:HB3	44:GM:32:PRO:HD2	1.96	0.46
45:GN:229:VAL:HG12	45:GN:233:MET:CE	2.45	0.46
44:HA:91:GLN:CG	44:HA:121:ARG:HD2	2.46	0.46
44:HA:288:VAL:HG11	44:HA:327:ASP:HB3	1.97	0.46
45:HB:272:PRO:HD2	45:HB:364:ALA:CB	2.46	0.46
45:HD:374:ILE:HG13	45:HD:375:GLN:N	2.29	0.46
44:HE:166:LYS:C	44:HE:167:LEU:HD12	2.36	0.46
44:HG:298:PRO:HA	44:HG:301:MET:SD	2.56	0.46
45:HH:177:ASP:HB2	48:HH:501:GDP:O3'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:195:LEU:HD11	44:HI:264:ARG:NH2	2.30	0.46
45:HJ:62:ARG:HB2	45:HJ:123:GLU:OE2	2.16	0.46
45:HJ:202:ILE:HD11	45:HJ:268:ILE:HG12	1.97	0.46
44:HK:266:HIS:ND1	44:HK:266:HIS:O	2.48	0.46
44:HM:67:PHE:HB3	44:HM:75:ILE:CD1	2.45	0.46
44:HM:239:THR:HB	44:HM:243:ARG:HH21	1.79	0.46
44:HM:269:LEU:HD23	44:HM:269:LEU:H	1.80	0.46
44:HM:326:LYS:HD3	44:HM:326:LYS:O	2.15	0.46
45:HN:103:LYS:HB2	45:HN:401:GLU:OE1	2.15	0.46
45:HN:178:THR:HB	45:HN:181:GLU:OE2	2.15	0.46
44:IA:297:GLU:OE2	44:IA:299:ALA:HB3	2.15	0.46
45:IB:324:LYS:O	45:IB:328:GLU:HG2	2.16	0.46
44:IC:344:VAL:HG11	44:IC:346:TRP:NE1	2.30	0.46
45:ID:3:GLU:OE2	45:ID:127:CYS:HB2	2.15	0.46
45:ID:8:GLN:NE2	45:ID:14:ASN:O	2.48	0.46
45:ID:137:HIS:CE1	45:ID:139:LEU:HD12	2.51	0.46
45:ID:174:LYS:HD2	45:ID:175:VAL:HG13	1.95	0.46
45:ID:274:THR:CB	45:ID:282:ARG:HH12	2.29	0.46
45:ID:276:ARG:HB2	45:ID:276:ARG:CZ	2.46	0.46
45:ID:311:LEU:HD21	45:ID:372:THR:CG2	2.46	0.46
44:IE:156:ARG:O	44:IE:159:VAL:HG12	2.15	0.46
44:IE:408:TYR:HB3	44:IE:413:MET:CE	2.44	0.46
45:IJ:97:ALA:HB3	45:IJ:143:THR:HB	1.97	0.46
44:IK:69:ASP:HB3	44:IK:75:ILE:HG12	1.97	0.46
44:IK:74:VAL:HG13	44:IK:75:ILE:N	2.30	0.46
44:IK:276:ILE:HG22	44:IK:371:VAL:HG11	1.97	0.46
44:IK:326:LYS:HD3	45:IN:219:THR:HA	1.97	0.46
45:IN:73:MET:CE	45:IN:92:PHE:HB3	2.45	0.46
45:JB:296:ALA:C	45:JB:299:MET:HE1	2.36	0.46
44:JC:241:SER:HA	44:JC:356:ASN:ND2	2.30	0.46
44:JC:261:PRO:CD	45:JF:394:PHE:HE2	2.29	0.46
45:JD:113:ILE:CD1	45:JD:150:LEU:HG	2.45	0.46
45:JD:143:THR:HG22	48:JD:501:GDP:PB	2.55	0.46
45:JD:166:THR:OG1	45:JD:199:CYS:SG	2.70	0.46
44:JE:145:THR:HG23	44:JE:146:GLY:N	2.30	0.46
44:JG:133:GLN:OE1	44:JG:133:GLN:HA	2.15	0.46
44:JG:319:TYR:CB	44:JG:323:VAL:HG11	2.45	0.46
45:JH:104:GLY:O	45:JH:147:MET:HB2	2.16	0.46
44:JK:285:GLN:HE22	44:JK:287:SER:H	1.64	0.46
44:JK:439:THR:OG1	45:JN:390:ARG:NH1	2.48	0.46
45:JL:143:THR:OG1	48:JL:501:GDP:O3B	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:23:LEU:HD11	44:JM:361:THR:HG23	1.96	0.46
45:JN:19:LYS:CG	45:JN:227:HIS:HA	2.46	0.46
45:JN:304:ASP:CG	45:JN:306:ARG:HG2	2.35	0.46
44:KA:348:PRO:HD2	45:KD:388:MET:CE	2.46	0.46
45:KD:181:GLU:CG	45:KD:182:PRO:HD3	2.41	0.46
44:KE:91:GLN:CG	44:KE:92:LEU:HG	2.46	0.46
44:KE:312:TYR:CD1	44:KE:341:ILE:HG23	2.50	0.46
45:KF:99:ASN:HD22	45:KF:178:THR:CG2	2.27	0.46
45:KF:214:THR:HG22	45:KF:273:LEU:HB3	1.96	0.46
45:KF:238:CYS:HB2	45:KF:318:ARG:CZ	2.45	0.46
44:KG:55:GLU:HG3	44:KG:57:GLY:N	2.31	0.46
44:KG:56:THR:CG2	44:KG:60:LYS:HE3	2.45	0.46
44:KG:326:LYS:CE	45:KJ:220:PRO:O	2.63	0.46
44:KG:385:ALA:HA	44:KG:432:TYR:CD2	2.50	0.46
44:KI:13:GLY:HA2	44:KI:16:VAL:HG22	1.97	0.46
44:KI:14:ILE:HG21	44:KI:74:VAL:HG12	1.97	0.46
44:KI:70:LEU:HD21	44:KI:149:LEU:HG	1.95	0.46
44:KI:107:HIS:O	44:KI:108:TYR:HD1	1.98	0.46
45:KJ:325:GLU:HA	45:KJ:328:GLU:CG	2.44	0.46
44:KK:229:ARG:HD2	44:KK:363:VAL:HG21	1.97	0.46
45:KL:201:VAL:HG11	45:KL:374:ILE:CD1	2.42	0.46
44:KM:136:LEU:HD23	44:KM:167:LEU:O	2.16	0.46
44:KM:167:LEU:HD21	44:KM:255:PHE:HD2	1.79	0.46
44:KM:316:SER:O	44:KM:317:MET:HE1	2.16	0.46
44:KM:320:ARG:HG2	44:KM:358:GLN:O	2.15	0.46
44:KM:344:VAL:HG11	44:KM:346:TRP:CE2	2.50	0.46
44:KM:395:PHE:CE2	44:KM:422:ARG:HB2	2.50	0.46
45:KN:5:VAL:HG23	45:KN:62:ARG:HG2	1.97	0.46
45:LB:137:HIS:O	45:LB:168:SER:HA	2.15	0.46
45:LB:290:THR:O	45:LB:293:MET:HB3	2.16	0.46
44:LC:2:ARG:H	44:LC:2:ARG:HD3	1.80	0.46
44:LC:147:SER:HB2	44:LC:190:SER:HB3	1.97	0.46
44:LC:174:SER:HB2	44:LC:177:VAL:O	2.15	0.46
45:LD:412:GLU:HG2	45:LD:416:ASN:ND2	2.31	0.46
45:LF:62:ARG:HH12	45:LF:127:CYS:HB2	1.79	0.46
44:LG:60:LYS:HD3	44:MG:283:HIS:O	2.15	0.46
44:LG:71:GLU:CG	45:LH:247:ASN:HD21	2.24	0.46
44:LG:175:PRO:HG3	44:LG:304:LYS:HG2	1.97	0.46
44:LG:248:LEU:HA	45:LJ:11:GLN:OE1	2.16	0.46
45:LH:342:VAL:HG12	45:LH:343:GLU:N	2.31	0.46
45:LL:215:LEU:HD21	45:LL:273:LEU:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:380:ARG:HA	45:LL:383:GLU:CG	2.46	0.46
44:LM:205:ASP:OD1	44:LM:208:ALA:HB3	2.15	0.46
45:LN:84:LEU:C	45:LN:86:ARG:HH21	2.18	0.46
44:MA:71:GLU:CG	44:MA:72:PRO:HD2	2.45	0.46
44:MA:210:TYR:O	44:MA:213:CYS:HB2	2.15	0.46
45:MB:167:PHE:HA	45:MB:200:MET:O	2.16	0.46
45:MB:168:SER:N	45:MB:200:MET:O	2.46	0.46
45:MB:180:VAL:O	45:MB:180:VAL:CG1	2.63	0.46
45:MB:190:HIS:O	45:MB:193:VAL:HG12	2.15	0.46
45:MB:268:ILE:HG21	45:MB:368:VAL:HG22	1.98	0.46
44:MC:339:ARG:NE	44:MC:339:ARG:HA	2.31	0.46
45:MD:415:MET:O	45:MD:419:VAL:HG23	2.15	0.46
45:MF:9:GLY:HA3	45:MF:66:MET:SD	2.55	0.46
45:MF:257:LEU:HB3	45:MF:266:PHE:CZ	2.51	0.46
45:MH:72:THR:HG23	45:MH:73:MET:N	2.30	0.46
45:MH:151:LEU:O	45:MH:155:VAL:HG23	2.15	0.46
44:MI:313:MET:HE3	44:MI:313:MET:HA	1.97	0.46
44:MK:268:MET:HB2	44:MK:379:SER:C	2.35	0.46
45:ML:345:ILE:O	45:ML:345:ILE:HG23	2.16	0.46
44:NA:100:ALA:HA	45:NB:252:LYS:CE	2.44	0.46
44:NA:252:ILE:HA	44:NA:255:PHE:CE2	2.50	0.46
44:NC:169:PHE:HE2	44:NC:235:ILE:HD13	1.80	0.46
44:NC:319:TYR:HE2	44:NC:328:VAL:HG13	1.80	0.46
45:ND:184:ASN:OD1	45:ND:185:ALA:N	2.48	0.46
45:NF:162:ARG:HD3	45:NF:163:ILE:N	2.29	0.46
44:NG:183:GLU:CD	44:NG:184:PRO:HD3	2.35	0.46
44:NG:316:SER:OG	44:NG:352:LYS:HB3	2.15	0.46
44:NG:386:GLU:O	44:NG:390:ARG:N	2.39	0.46
45:NH:67:ASP:C	45:NH:68:LEU:HD22	2.35	0.46
44:NI:324:VAL:HG22	44:NI:325:PRO:HD2	1.97	0.46
44:NI:332:ILE:HG23	44:NI:351:PHE:HD2	1.80	0.46
44:NK:221:ARG:NH2	45:NL:321:MET:HA	2.29	0.46
45:NL:233:MET:O	45:NL:236:VAL:HG12	2.16	0.46
45:NL:257:LEU:HD21	45:NL:314:SER:CB	2.46	0.46
44:NM:163:LYS:HE2	44:NM:163:LYS:HA	1.96	0.46
44:NM:276:ILE:CG1	44:NM:371:VAL:HA	2.44	0.46
44:NM:294:SER:CA	44:NM:297:GLU:HG3	2.35	0.46
44:NM:362:VAL:HG11	44:NM:370:LYS:N	2.30	0.46
44:OA:145:THR:HG23	44:OA:146:GLY:N	2.30	0.46
44:OA:179:THR:HG23	45:OB:351:SER:CB	2.30	0.46
45:OB:242:PHE:CG	45:OB:356:ILE:HG13	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:36:MET:CE	44:OC:37:PRO:HD2	2.46	0.46
44:OC:107:HIS:ND1	44:OC:107:HIS:O	2.48	0.46
45:OD:235:GLY:HA3	45:OD:366:THR:OG1	2.15	0.46
44:OE:270:SER:C	44:OE:302:MET:HE3	2.36	0.46
45:OF:21:TRP:CZ2	45:OF:63:ALA:HB2	2.50	0.46
44:OG:16:VAL:HG13	44:OG:231:ILE:CG2	2.45	0.46
45:OH:202:ILE:HD11	45:OH:268:ILE:HD11	1.97	0.46
44:OI:237:SER:HA	44:OI:320:ARG:NE	2.30	0.46
45:OJ:114:ASP:OD1	45:OJ:114:ASP:C	2.53	0.46
45:OJ:167:PHE:CE1	45:OJ:200:MET:HB2	2.50	0.46
45:OL:67:ASP:OD2	45:OL:69:GLU:HG2	2.14	0.46
44:OM:172:TYR:CD2	44:OM:391:LEU:HD21	2.50	0.46
45:ON:153:SER:O	45:ON:157:GLU:HG3	2.16	0.46
45:ON:233:MET:HA	45:ON:236:VAL:CG2	2.41	0.46
45:ON:309:ARG:HG2	45:ON:340:TYR:C	2.35	0.46
44:PA:8:HIS:O	44:PA:68:LEU:HB2	2.16	0.46
44:PC:14:ILE:HD13	44:PC:74:VAL:CG2	2.45	0.46
44:PC:98:ASP:OD1	44:PC:99:ALA:N	2.47	0.46
45:PD:371:SER:HG	45:PD:372:THR:H	1.63	0.46
44:PE:200:VAL:HG13	44:PE:268:MET:SD	2.55	0.46
45:PF:19:LYS:HE3	45:PF:226:ASN:HB3	1.96	0.46
45:PF:370:ASN:OD1	45:PF:422:TYR:OH	2.33	0.46
44:PG:286:LEU:HA	44:PG:290:GLU:OE2	2.15	0.46
45:PH:1:MET:C	45:PH:2:ARG:HG2	2.35	0.46
45:PH:34:GLY:O	45:PH:59:TYR:HD1	1.98	0.46
45:PH:73:MET:HE3	45:PH:92:PHE:HB3	1.97	0.46
45:PJ:67:ASP:HB3	45:PJ:73:MET:HE3	1.98	0.46
44:PK:390:ARG:HG3	44:PK:391:LEU:N	2.30	0.46
45:PL:173:PRO:CG	45:PL:380:ARG:HD3	2.45	0.46
45:PL:374:ILE:HD11	45:PL:422:TYR:CE1	2.51	0.46
44:PM:316:SER:CB	44:PM:352:LYS:HB3	2.45	0.46
44:PM:414:GLU:HB2	44:PM:417:GLU:HG2	1.98	0.46
45:PN:19:LYS:NZ	45:PN:22:GLU:OE2	2.43	0.46
45:PN:406:MET:O	45:PN:409:THR:OG1	2.18	0.46
44:QA:381:SER:O	44:QA:384:ILE:HG22	2.16	0.46
45:QB:321:MET:HG2	45:QB:322:SER:O	2.15	0.46
44:QC:287:SER:O	44:QC:290:GLU:HG2	2.16	0.46
44:QC:344:VAL:HG11	44:QC:346:TRP:CZ3	2.50	0.46
45:QD:107:THR:HG23	45:QD:108:GLU:HG2	1.97	0.46
45:QD:232:ALA:HB3	45:QD:268:ILE:HD12	1.96	0.46
45:QD:248:SER:HA	45:QD:252:LYS:CD	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:151:LEU:HD23	45:QF:155:VAL:CG2	2.45	0.46
44:QG:195:LEU:CD1	44:QG:428:LEU:HD22	2.44	0.46
44:QG:313:MET:HE1	44:QG:380:ASN:C	2.35	0.46
44:QI:188:ILE:O	44:QI:191:THR:N	2.48	0.46
44:QI:350:GLY:HA2	45:QJ:179:VAL:HG11	1.97	0.46
45:QJ:74:ASP:CB	45:QJ:75:SER:HB3	2.40	0.46
44:QK:14:ILE:HD12	44:QK:14:ILE:H	1.80	0.46
44:QK:254:GLU:CD	45:QL:98:GLY:HA3	2.34	0.46
45:QL:113:ILE:HD13	45:QL:150:LEU:CG	2.45	0.46
44:QM:88:HIS:HA	44:RM:280:LYS:CE	2.46	0.46
44:QM:121:ARG:HG3	44:QM:121:ARG:NH1	2.26	0.46
44:QM:175:PRO:HB3	44:QM:390:ARG:NE	2.30	0.46
44:QM:319:TYR:HB3	44:QM:323:VAL:HG11	1.97	0.46
45:QN:23:VAL:O	45:QN:27:GLU:HB2	2.15	0.46
45:QN:49:VAL:O	45:QN:62:ARG:HD2	2.16	0.46
45:QN:209:ASP:OD1	45:QN:213:ARG:HD3	2.15	0.46
45:QN:329:GLN:O	45:QN:333:VAL:HG23	2.16	0.46
44:RA:320:ARG:HG2	44:RA:374:ALA:O	2.14	0.46
45:RB:103:LYS:O	45:RB:108:GLU:HB2	2.16	0.46
45:RB:237:THR:HG23	45:RB:241:ARG:HE	1.80	0.46
45:RB:252:LYS:HE2	44:RC:100:ALA:HA	1.98	0.46
44:RC:206:ASN:OD1	46:RC:501:GTP:N2	2.48	0.46
44:RE:13:GLY:HA2	44:RE:16:VAL:HG12	1.97	0.46
44:RE:269:LEU:HD22	44:RE:303:ALA:HB1	1.97	0.46
44:RE:387:VAL:HG23	44:RE:388:PHE:N	2.30	0.46
45:RH:63:ALA:HB1	45:RH:65:LEU:CD1	2.46	0.46
45:RH:286:VAL:N	45:RH:287:PRO:CD	2.78	0.46
44:RI:5:ILE:HG22	44:RI:6:SER:N	2.31	0.46
44:RI:60:LYS:NZ	44:RI:86:LEU:HA	2.30	0.46
44:RI:274:PRO:HD3	44:RI:374:ALA:HA	1.96	0.46
44:RI:324:VAL:HG22	44:RI:325:PRO:HD2	1.96	0.46
45:RJ:113:ILE:HD12	45:RJ:116:VAL:HG11	1.97	0.46
45:RJ:163:ILE:HD11	45:RJ:250:LEU:HD12	1.96	0.46
45:RJ:247:ASN:O	45:RJ:252:LYS:NZ	2.38	0.46
44:RK:208:ALA:HB3	44:RK:302:MET:O	2.15	0.46
45:RL:170:VAL:HG21	45:RL:377:MET:SD	2.56	0.46
45:RL:193:VAL:HG11	45:RL:414:ASN:ND2	2.30	0.46
44:RM:298:PRO:HB3	44:RM:307:PRO:HG2	1.97	0.46
44:RM:311:LYS:NZ	44:RM:438:GLU:OE2	2.49	0.46
45:RN:202:ILE:HD12	45:RN:300:MET:HB2	1.97	0.46
45:SB:175:VAL:O	45:SB:175:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:222:TYR:HA	45:SB:225:LEU:HD12	1.98	0.46
45:SB:325:GLU:CG	44:SC:221:ARG:HH11	2.27	0.46
44:SC:370:LYS:O	44:SC:370:LYS:HG3	2.15	0.46
44:SC:437:ILE:HG13	44:SC:437:ILE:O	2.14	0.46
44:SE:155:GLU:O	44:SE:159:VAL:HG12	2.15	0.46
44:SE:279:GLU:O	44:SE:280:LYS:HD2	2.15	0.46
45:SF:242:PHE:CD1	45:SF:356:ILE:HG13	2.51	0.46
45:SF:270:PHE:O	45:SF:298:ASN:ND2	2.42	0.46
44:SG:174:SER:OG	44:SG:207:GLU:HB2	2.14	0.46
44:SG:295:ALA:HB1	44:SG:377:MET:HE1	1.96	0.46
45:SH:407:GLU:CA	45:SH:410:GLU:HG2	2.43	0.46
45:SJ:113:ILE:O	45:SJ:117:LEU:N	2.36	0.46
44:SK:31:GLN:NE2	44:SK:37:PRO:HG3	2.30	0.46
45:SL:61:PRO:HG3	45:SL:84:LEU:HB3	1.97	0.46
45:SL:312:THR:HG23	45:SL:348:ASN:O	2.16	0.46
44:SM:141:VAL:HG22	44:SM:187:SER:HA	1.97	0.46
44:SM:439:THR:HG21	45:SN:390:ARG:HD3	1.96	0.46
45:SN:146:GLY:O	45:SN:149:THR:HG22	2.16	0.46
44:TA:191:THR:CA	44:TA:194:LEU:HG	2.44	0.46
44:TA:206:ASN:HA	44:TA:209:ILE:HD12	1.97	0.46
45:TB:60:VAL:HG11	45:TB:86:ARG:NH2	2.31	0.46
44:TC:31:GLN:HB3	44:TC:32:PRO:CD	2.46	0.46
44:TC:314:ALA:HB3	44:TC:380:ASN:HB3	1.97	0.46
45:TD:221:THR:CG2	45:TD:224:ASP:H	2.28	0.46
45:TD:304:ASP:O	45:TD:373:ALA:HB1	2.15	0.46
44:TE:209:ILE:HG23	44:TE:302:MET:CE	2.46	0.46
45:TF:32:PRO:HA	45:TF:81:PHE:CD2	2.50	0.46
45:TF:305:PRO:HA	45:TF:373:ALA:HB1	1.97	0.46
44:TI:358:GLN:HG3	44:TI:359:PRO:CD	2.45	0.46
45:TJ:180:VAL:CG2	45:TJ:183:TYR:HB2	2.45	0.46
45:TJ:207:LEU:CD2	45:TJ:300:MET:HE1	2.45	0.46
44:TK:201:ALA:O	44:TK:267:PHE:HA	2.15	0.46
45:TL:51:TYR:HE1	45:TL:61:PRO:CG	2.22	0.46
45:TL:251:ARG:O	45:TL:254:ALA:HB3	2.15	0.46
44:TM:353:VAL:HG11	45:TN:177:ASP:OD1	2.15	0.46
45:TN:254:ALA:O	45:TN:258:ILE:HD13	2.14	0.46
44:UA:313:MET:N	44:UA:313:MET:SD	2.88	0.46
45:UB:372:THR:HG21	45:UB:426:GLN:HB2	1.97	0.46
44:UC:5:ILE:CD1	44:UC:132:LEU:HD11	2.45	0.46
44:UC:75:ILE:O	44:UC:78:VAL:N	2.48	0.46
44:UC:101:ASN:HB3	44:UC:182:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:319:TYR:HE2	44:UC:328:VAL:HG22	1.78	0.46
44:UE:68:LEU:HD21	44:UE:118:CYS:SG	2.55	0.46
45:UF:54:ALA:HB3	45:UF:58:ARG:O	2.14	0.46
45:UF:267:MET:CB	45:UF:299:MET:HE1	2.46	0.46
45:UF:331:LEU:HD22	44:UG:176:GLN:CG	2.45	0.46
45:UF:403:MET:HE1	45:UF:407:GLU:HB3	1.98	0.46
44:UG:234:VAL:HG22	44:UG:376:CYS:SG	2.55	0.46
44:UG:242:LEU:HD11	44:UG:252:ILE:CD1	2.45	0.46
44:UG:286:LEU:HB2	44:UG:373:ARG:NH2	2.30	0.46
45:UH:42:LEU:HA	45:UH:45:GLU:HG3	1.97	0.46
45:UH:46:ARG:HB2	45:UH:241:ARG:O	2.15	0.46
44:UI:286:LEU:N	44:UI:290:GLU:OE2	2.49	0.46
45:UJ:311:LEU:HD23	45:UJ:342:VAL:HG11	1.96	0.46
45:UL:334:GLN:HE22	45:UL:347:ASN:HA	1.80	0.46
44:UM:311:LYS:HD2	44:UM:342:GLN:HG3	1.97	0.46
45:VB:254:ALA:CA	45:VB:258:ILE:HD13	2.40	0.46
44:VC:49:PHE:HB2	44:VC:53:PHE:HB2	1.97	0.46
44:VC:88:HIS:HB3	44:VC:91:GLN:CD	2.35	0.46
45:VD:44:LEU:HD23	45:VD:47:ILE:HD12	1.96	0.46
45:VD:54:ALA:CA	45:VD:283:ALA:HB2	2.46	0.46
45:VD:226:ASN:O	45:VD:230:SER:OG	2.20	0.46
44:VE:99:ALA:HB3	44:VE:145:THR:N	2.30	0.46
44:VE:101:ASN:HA	44:VE:144:GLY:H	1.80	0.46
44:VG:60:LYS:HD3	44:WG:283:HIS:CD2	2.50	0.46
44:VG:298:PRO:O	44:VG:301:MET:HE2	2.15	0.46
45:VH:63:ALA:O	45:VH:89:ASN:ND2	2.48	0.46
45:VJ:4:ILE:CG2	45:VJ:131:GLN:HG2	2.45	0.46
45:VJ:309:ARG:O	45:VJ:372:THR:HG23	2.15	0.46
44:VK:229:ARG:O	44:VK:232:ALA:HB3	2.15	0.46
45:VL:383:GLU:HA	45:VL:386:THR:OG1	2.15	0.46
44:VM:20:CYS:HB2	44:VM:235:ILE:HG21	1.98	0.46
45:VN:72:THR:HG23	45:VN:73:MET:N	2.31	0.46
45:VN:267:MET:HG2	45:VN:301:CYS:SG	2.55	0.46
44:WA:98:ASP:OD1	44:WA:99:ALA:N	2.48	0.46
44:WA:190:SER:O	44:WA:193:SER:OG	2.22	0.46
44:WA:284:GLU:HB2	44:WA:286:LEU:CD2	2.45	0.46
45:WB:208:TYR:HE1	45:WB:220:PRO:HB2	1.81	0.46
45:WB:286:VAL:CG1	45:WB:325:GLU:HG2	2.45	0.46
45:WB:395:LEU:HG	45:WB:399:THR:CG2	2.43	0.46
44:WC:419:SER:O	44:WC:423:GLU:HG3	2.15	0.46
45:WF:174:LYS:HD2	45:WF:175:VAL:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:270:SER:CB	44:WG:378:ILE:HD13	2.45	0.46
45:WH:12:CYS:HB3	45:WH:138:SER:HB2	1.97	0.46
45:WH:353:ILE:HD12	45:WH:353:ILE:N	2.30	0.46
45:WJ:12:CYS:HB3	45:WJ:138:SER:HB2	1.97	0.46
44:WK:428:LEU:HG	44:WK:432:TYR:CE2	2.49	0.46
44:WM:100:ALA:HB1	45:WN:252:LYS:CA	2.45	0.46
44:WM:102:ASN:OD1	44:WM:105:ARG:HG3	2.15	0.46
44:WM:104:ALA:O	44:WM:108:TYR:N	2.35	0.46
45:WN:109:GLY:O	45:WN:113:ILE:N	2.47	0.46
11:0Q:53:ASN:OD1	44:AA:400:ALA:HA	2.15	0.46
22:1L:488:LYS:NZ	45:BH:33:THR:HG22	2.30	0.46
22:1L:538:ARG:NH2	45:AF:53:GLU:HG3	2.31	0.46
25:1P:138:ILE:CD1	45:TJ:33:THR:HG21	2.42	0.46
26:1R:23:LYS:HD3	44:MC:46:ASP:OD2	2.15	0.46
26:1R:505:TYR:HB2	44:EC:39:ASP:C	2.36	0.46
2:2A:36:ARG:HE	45:MJ:243:PRO:HD2	1.80	0.46
24:2O:423:HIS:CE1	44:VA:282:TYR:HH	2.24	0.46
2:3A:125:LEU:HB2	45:AN:276:ARG:HH22	1.81	0.46
15:3V:104:PHE:HE1	44:LA:417:GLU:OE1	1.97	0.46
16:3X:1:MET:HB3	44:MM:249:ASN:HD22	1.70	0.46
16:3X:83:MET:N	35:6R:47:GLU:HG3	2.30	0.46
35:4R:391:PHE:HD1	45:EF:215:LEU:HD13	1.80	0.46
37:5A:79:LEU:HD11	45:NB:245:GLN:NE2	2.29	0.46
37:5B:71:SER:HB3	45:NF:359:LYS:NZ	2.30	0.46
37:5D:109:ASN:N	44:NM:280:LYS:CA	2.78	0.46
38:5G:22:LYS:HE2	38:5G:24:ASP:CG	2.35	0.46
38:5G:60:TRP:CE3	45:OJ:279:GLN:HG2	2.51	0.46
38:5H:123:ARG:O	38:5H:124:TYR:CB	2.62	0.46
39:5J:19:MET:HE1	45:NF:338:SER:HB2	1.98	0.46
11:5Q:137:SER:HB2	11:5Q:148:TYR:CE1	2.50	0.46
35:5R:231:TYR:CZ	45:CJ:216:LYS:HE3	2.51	0.46
35:5R:315:MET:HG2	45:CJ:26:ASP:OD2	2.15	0.46
35:5R:557:ASP:OD2	35:5R:561:ARG:N	2.47	0.46
36:5S:128:LEU:HD13	36:5S:168:LEU:HA	1.96	0.46
40:6F:48:ASP:HB3	40:6F:52:GLN:OE1	2.15	0.46
11:6Q:52:THR:HG22	11:6Q:53:ASN:H	1.80	0.46
35:6R:450:ASP:OD1	35:6R:452:THR:OG1	2.34	0.46
35:6R:518:SER:O	35:6R:520:PRO:HD3	2.16	0.46
35:7R:85:TRP:CH2	44:AA:372:MET:HB3	2.50	0.46
35:7R:447:PHE:CB	35:7R:452:THR:HB	2.37	0.46
45:AB:270:PHE:O	45:AB:298:ASN:ND2	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:174:SER:HB3	44:AC:207:GLU:CD	2.36	0.46
44:AC:177:VAL:HB	44:AC:207:GLU:OE2	2.15	0.46
44:AC:240:ALA:O	44:AC:356:ASN:ND2	2.49	0.46
44:AC:288:VAL:HA	44:AC:291:ILE:CG1	2.39	0.46
44:AC:406:HIS:NE2	45:AD:260:PHE:HA	2.31	0.46
45:AF:114:ASP:OD1	45:AF:115:SER:N	2.47	0.46
45:AF:242:PHE:HB3	45:AF:356:ILE:HG13	1.96	0.46
44:AG:276:ILE:HG23	44:AG:281:ALA:CB	2.46	0.46
44:AG:280:LYS:HZ2	44:MG:90:GLU:HB3	1.80	0.46
45:AH:21:TRP:CA	45:AH:24:ILE:HG22	2.37	0.46
45:AH:281:TYR:CD2	45:MH:87:PRO:HD3	2.49	0.46
44:AI:88:HIS:HD2	44:BI:283:HIS:HB3	1.80	0.46
45:AJ:310:TYR:CE1	45:AJ:371:SER:HB3	2.50	0.46
44:AK:258:ASN:HD21	44:AK:352:LYS:HD3	1.78	0.46
44:AK:319:TYR:N	44:AK:354:GLY:O	2.49	0.46
45:AL:58:ARG:CZ	45:BL:281:TYR:HE1	2.29	0.46
45:AL:267:MET:HB2	45:AL:301:CYS:SG	2.55	0.46
44:AM:271:SER:N	44:AM:377:MET:SD	2.88	0.46
45:BD:291:GLN:NE2	45:BD:292:GLN:HB2	2.31	0.46
45:BD:342:VAL:HG23	45:BD:345:ILE:CG2	2.43	0.46
44:BE:51:THR:HG23	44:BE:52:PHE:CD1	2.50	0.46
44:BE:173:PRO:HG2	44:BE:391:LEU:CD2	2.46	0.46
44:BE:311:LYS:HD2	44:BE:311:LYS:N	2.29	0.46
44:BE:407:TRP:HH2	45:BF:254:ALA:O	1.98	0.46
45:BF:174:LYS:HA	45:BF:174:LYS:CE	2.45	0.46
44:BG:2:ARG:O	44:BG:3:GLU:HG3	2.16	0.46
44:BG:363:VAL:HG22	44:BG:364:PRO:HD2	1.95	0.46
45:BH:5:VAL:O	45:BH:134:GLN:HG2	2.15	0.46
45:BH:316:LEU:HD13	45:BH:352:SER:HB3	1.98	0.46
44:BI:407:TRP:HZ3	45:BJ:255:VAL:N	2.12	0.46
45:BJ:116:VAL:O	45:BJ:120:VAL:HG23	2.15	0.46
44:BK:269:LEU:HD13	44:BK:305:CYS:HB3	1.97	0.46
44:BK:339:ARG:O	44:BK:339:ARG:HD3	2.16	0.46
45:BL:87:PRO:HD2	45:CJ:281:TYR:CD2	2.50	0.46
45:BL:133:PHE:O	45:BL:164:MET:HA	2.15	0.46
45:BL:287:PRO:CG	45:BL:329:GLN:HE22	2.28	0.46
45:BL:391:ARG:O	45:BL:392:LYS:HB2	2.15	0.46
44:BM:119:LEU:HD12	44:BM:160:ASP:OD2	2.16	0.46
44:BM:238:LEU:HA	44:BM:318:MET:HE1	1.96	0.46
44:BM:317:MET:HA	44:BM:377:MET:CB	2.46	0.46
45:BN:89:ASN:O	45:BN:91:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:208:TYR:O	45:BN:211:CYS:HB2	2.16	0.46
44:CA:2:ARG:HB2	44:CA:133:GLN:CD	2.35	0.46
44:CA:213:CYS:HB3	44:CA:219:ILE:CB	2.38	0.46
45:CB:268:ILE:HG22	45:CB:368:VAL:CG1	2.40	0.46
44:CC:387:VAL:HA	44:CC:390:ARG:HG2	1.97	0.46
45:CD:2:ARG:C	45:CD:131:GLN:HB2	2.36	0.46
44:CE:221:ARG:O	44:CE:221:ARG:HG3	2.15	0.46
44:CE:252:ILE:O	44:CE:255:PHE:HB2	2.15	0.46
45:CF:285:THR:CB	45:CF:287:PRO:HD2	2.45	0.46
44:CI:294:SER:HA	44:CI:297:GLU:HG3	1.96	0.46
45:CJ:5:VAL:HG12	45:CJ:62:ARG:NH1	2.28	0.46
44:CK:22:GLU:HG3	44:CK:83:TYR:CZ	2.50	0.46
44:CK:28:HIS:HE1	44:CK:48:ALA:HB1	1.80	0.46
44:CK:301:MET:CE	44:CK:307:PRO:HG3	2.41	0.46
45:CL:67:ASP:HB3	45:CL:73:MET:SD	2.55	0.46
44:CM:100:ALA:O	44:CM:101:ASN:HB2	2.16	0.46
45:CN:370:ASN:OD1	45:CN:422:TYR:OH	2.32	0.46
44:DA:169:PHE:CE1	44:DA:202:VAL:HG21	2.50	0.46
44:DA:311:LYS:CD	44:DA:342:GLN:HE22	2.29	0.46
45:DB:4:ILE:HD13	45:DB:250:LEU:HD11	1.96	0.46
45:DB:50:TYR:OH	45:DB:237:THR:HG21	2.16	0.46
44:DC:23:LEU:CD1	44:DC:361:THR:HG23	2.45	0.46
44:DC:169:PHE:CD1	44:DC:202:VAL:HG21	2.50	0.46
44:DC:182:VAL:O	44:DC:182:VAL:HG22	2.16	0.46
45:DD:103:LYS:HZ1	45:DD:397:TRP:HZ3	1.62	0.46
44:DE:158:SER:O	44:DE:162:GLY:HA2	2.15	0.46
44:DE:188:ILE:HG23	44:DE:425:LEU:CD1	2.45	0.46
45:DJ:360:GLY:C	45:DJ:361:LEU:HD22	2.36	0.46
45:DL:22:GLU:HG2	45:DL:81:PHE:CD2	2.50	0.46
45:DL:46:ARG:NH2	44:DM:76:ASP:OD2	2.39	0.46
45:DL:164:MET:N	45:DL:197:ASP:OD2	2.49	0.46
45:DL:252:LYS:HG2	45:DL:350:LYS:NZ	2.30	0.46
44:DM:240:ALA:HA	44:DM:243:ARG:CG	2.45	0.46
45:DN:105:HIS:CD2	45:DN:149:THR:HG23	2.50	0.46
45:DN:136:THR:CG2	45:DN:167:PHE:HB2	2.39	0.46
45:EB:136:THR:HG22	45:EB:167:PHE:HD2	1.73	0.46
45:EB:270:PHE:HE2	45:EB:273:LEU:HD21	1.80	0.46
44:EC:155:GLU:O	44:EC:159:VAL:HG23	2.16	0.46
44:EC:204:LEU:HD13	44:EC:231:ILE:HD13	1.98	0.46
44:EC:393:HIS:CE1	44:EC:397:LEU:HD21	2.49	0.46
45:ED:199:CYS:HB3	45:ED:264:HIS:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EE:317:MET:HE1	44:EE:332:ILE:HD11	1.98	0.46
45:EF:378:PHE:HD1	45:EF:381:VAL:HG11	1.81	0.46
45:EH:199:CYS:CB	45:EH:266:PHE:H	2.25	0.46
45:EH:211:CYS:O	45:EH:215:LEU:HB2	2.15	0.46
44:EI:51:THR:OG1	44:EI:243:ARG:HB3	2.15	0.46
44:EI:98:ASP:OD1	44:EI:99:ALA:N	2.48	0.46
44:EI:183:GLU:HG2	44:EI:184:PRO:CD	2.45	0.46
44:EI:210:TYR:HE1	44:EI:227:LEU:HD11	1.79	0.46
45:EJ:318:ARG:HB2	45:EJ:364:ALA:O	2.15	0.46
44:EK:311:LYS:N	44:EK:382:THR:HG1	2.09	0.46
44:EK:315:CYS:SG	44:EK:351:PHE:HA	2.56	0.46
44:EM:136:LEU:HD22	44:EM:167:LEU:HB2	1.97	0.46
45:EN:208:TYR:O	45:EN:212:PHE:HD2	1.99	0.46
44:FA:185:TYR:HE1	44:FA:398:MET:CB	2.29	0.46
44:FA:390:ARG:HG3	44:FA:391:LEU:N	2.30	0.46
45:FB:20:PHE:O	45:FB:24:ILE:N	2.37	0.46
45:FB:211:CYS:SG	45:FB:225:LEU:HD23	2.56	0.46
44:FC:181:VAL:HG12	45:FD:256:ASN:CG	2.36	0.46
44:FE:107:HIS:O	44:FE:112:LYS:HE3	2.15	0.46
44:FE:212:ILE:HD13	44:FE:215:ARG:HH22	1.79	0.46
45:FF:242:PHE:HE2	45:FF:356:ILE:HG21	1.80	0.46
45:FF:411:ALA:O	45:FF:414:ASN:HB3	2.16	0.46
44:FG:264:ARG:HD2	44:FG:431:ASP:OD2	2.15	0.46
45:FH:77:ARG:HG2	45:FH:77:ARG:O	2.15	0.46
45:FJ:345:ILE:O	45:FJ:345:ILE:HG23	2.15	0.46
44:FK:100:ALA:HB1	45:FL:255:VAL:HG21	1.97	0.46
44:FK:172:TYR:HB3	44:FK:173:PRO:HD2	1.98	0.46
44:FK:305:CYS:SG	44:FK:384:ILE:HA	2.55	0.46
45:FL:116:VAL:HA	45:FL:119:VAL:CG1	2.44	0.46
44:FM:188:ILE:HG23	44:FM:425:LEU:CD1	2.46	0.46
45:FN:68:LEU:CD2	45:FN:97:ALA:HB2	2.44	0.46
45:FN:86:ARG:HE	45:FN:87:PRO:CD	2.15	0.46
45:FN:156:ARG:HG3	45:FN:195:ASN:ND2	2.30	0.46
44:GA:91:GLN:C	44:GA:93:ILE:HD12	2.36	0.46
45:GB:8:GLN:HA	45:GB:136:THR:OG1	2.15	0.46
45:GB:197:ASP:O	45:GB:264:HIS:HB2	2.15	0.46
44:GC:66:VAL:HG22	44:GC:68:LEU:HD11	1.97	0.46
44:GC:221:ARG:NH1	45:GD:322:SER:O	2.47	0.46
45:GD:13:GLY:HA2	45:GD:16:ILE:CG1	2.45	0.46
45:GD:36:TYR:CE1	45:GD:44:LEU:HG	2.51	0.46
44:GE:22:GLU:HG3	44:GE:83:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:309:ARG:CZ	45:GF:341:PHE:O	2.63	0.46
44:GG:311:LYS:NZ	44:GG:342:GLN:HG2	2.30	0.46
45:GH:330:MET:HE3	45:GH:349:ILE:HD13	1.97	0.46
44:GI:245:ASP:OD1	44:GI:246:GLY:N	2.48	0.46
45:GJ:186:THR:HG21	45:GJ:385:PHE:CD1	2.51	0.46
44:GM:387:VAL:HA	44:GM:390:ARG:HG2	1.96	0.46
45:GN:47:ILE:HG12	45:GN:51:TYR:HB2	1.96	0.46
45:GN:161:ASP:OD2	45:GN:162:ARG:NH1	2.48	0.46
44:HA:273:ALA:O	44:HA:375:VAL:HG12	2.15	0.46
45:HB:252:LYS:O	45:HB:350:LYS:HE2	2.14	0.46
44:HC:433:GLU:O	44:HC:437:ILE:HG23	2.15	0.46
45:HD:203:ASP:OD2	45:HD:302:ALA:N	2.48	0.46
44:HE:56:THR:HG22	44:HE:60:LYS:O	2.16	0.46
44:HE:89:PRO:CG	44:IE:280:LYS:HG2	2.19	0.46
44:HE:182:VAL:HG22	44:HE:185:TYR:HB2	1.97	0.46
45:HH:3:GLU:O	45:HH:131:GLN:HB3	2.15	0.46
45:HH:200:MET:HG2	45:HH:266:PHE:HB2	1.97	0.46
44:HI:141:VAL:CG1	44:HI:142:GLY:N	2.78	0.46
45:HJ:345:ILE:O	45:HJ:345:ILE:HG23	2.15	0.46
45:HJ:405:GLU:OE1	45:HJ:405:GLU:N	2.34	0.46
45:HL:182:PRO:CG	45:HL:388:MET:HE2	2.46	0.46
44:HM:17:GLY:O	44:HM:21:TRP:CD1	2.68	0.46
44:HM:318:MET:HB3	44:HM:376:CYS:O	2.16	0.46
45:HN:186:THR:HG23	45:HN:187:LEU:N	2.31	0.46
44:IA:79:ARG:CD	44:IA:92:LEU:HD22	2.46	0.46
44:IA:102:ASN:CG	44:IA:105:ARG:HG3	2.35	0.46
45:IB:6:HIS:O	45:IB:63:ALA:HA	2.15	0.46
45:IB:117:LEU:HG	45:IB:121:ARG:CG	2.41	0.46
45:IB:293:MET:CE	45:IB:315:ALA:HB2	2.46	0.46
44:IC:37:PRO:HB2	44:IC:39:ASP:OD1	2.15	0.46
45:ID:2:ARG:HB2	45:ID:131:GLN:HB2	1.97	0.46
45:IF:293:MET:HG2	45:IF:367:PHE:HD1	1.80	0.46
44:IG:273:ALA:HB1	44:IG:274:PRO:HA	1.97	0.46
45:IH:300:MET:HA	45:IH:300:MET:CE	2.45	0.46
45:IH:341:PHE:HD2	45:IH:348:ASN:ND2	2.12	0.46
44:IK:439:THR:HG21	45:IN:390:ARG:CD	2.46	0.46
45:IL:1:MET:H2	45:IL:48:ASN:HD21	1.63	0.46
45:IL:103:LYS:HD3	45:IL:401:GLU:OE2	2.15	0.46
45:IL:144:GLY:N	48:IL:501:GDP:O1B	2.41	0.46
45:IL:286:VAL:HG11	45:IL:325:GLU:HG2	1.96	0.46
44:IM:138:PHE:HZ	44:IM:235:ILE:HG13	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:145:SER:O	45:IN:149:THR:HG23	2.15	0.46
45:IN:217:LEU:O	45:IN:217:LEU:HD12	2.16	0.46
45:IN:380:ARG:O	45:IN:384:GLN:HG3	2.15	0.46
44:JA:88:HIS:CE1	44:JA:89:PRO:HD2	2.51	0.46
45:JB:164:MET:SD	45:JB:196:ALA:HA	2.56	0.46
44:JC:260:VAL:HG22	44:JC:262:TYR:O	2.15	0.46
45:JD:116:VAL:O	45:JD:120:VAL:HG23	2.15	0.46
44:JE:7:ILE:HD13	44:JE:66:VAL:HG12	1.96	0.46
44:JE:135:PHE:CE2	44:JE:157:LEU:HD12	2.47	0.46
45:JF:12:CYS:SG	45:JF:169:VAL:HG11	2.56	0.46
45:JF:391:ARG:HD2	45:JF:391:ARG:N	2.30	0.46
44:JG:167:LEU:HD12	44:JG:167:LEU:N	2.31	0.46
45:JH:65:LEU:HD13	45:JH:90:PHE:CZ	2.50	0.46
44:JI:188:ILE:HG22	44:JI:189:LEU:HD12	1.97	0.46
44:JI:268:MET:HB2	44:JI:379:SER:O	2.16	0.46
44:JK:98:ASP:OD1	44:JK:99:ALA:N	2.49	0.46
44:JK:111:GLY:O	44:JK:115:VAL:HG13	2.15	0.46
44:JK:121:ARG:NH2	44:JK:124:LYS:HD3	2.25	0.46
44:JK:405:VAL:HG12	44:JK:409:VAL:CG2	2.45	0.46
44:JM:297:GLU:HB2	44:JM:298:PRO:HD2	1.95	0.46
44:JM:317:MET:O	44:JM:353:VAL:HA	2.15	0.46
44:KA:174:SER:OG	44:KA:207:GLU:HG3	2.15	0.46
44:KA:263:PRO:HD3	45:KD:396:HIS:CD2	2.50	0.46
44:KA:264:ARG:HH21	44:KA:266:HIS:HE2	1.62	0.46
45:KB:294:PHE:CD2	45:KB:333:VAL:HG21	2.50	0.46
45:KD:267:MET:HB2	45:KD:301:CYS:SG	2.54	0.46
44:KE:16:VAL:HA	44:KE:228:ASN:ND2	2.31	0.46
44:KE:93:ILE:HG22	44:KE:94:SER:H	1.79	0.46
44:KE:102:ASN:ND2	44:KE:411:GLU:OE2	2.49	0.46
44:KE:261:PRO:HG2	44:KE:313:MET:CE	2.45	0.46
44:KG:208:ALA:HB1	44:KG:301:MET:O	2.15	0.46
45:KJ:216:LYS:HB2	45:KJ:275:SER:HB2	1.97	0.46
45:KJ:287:PRO:O	45:KJ:290:THR:HG22	2.15	0.46
44:KK:7:ILE:HB	44:KK:137:VAL:HG12	1.98	0.46
44:KM:157:LEU:HA	44:KM:160:ASP:CB	2.43	0.46
45:KN:117:LEU:HA	45:KN:120:VAL:HG12	1.98	0.46
45:KN:263:LEU:HG	45:KN:422:TYR:CZ	2.51	0.46
44:LA:222:PRO:HD2	45:LB:324:LYS:HE3	1.97	0.46
44:LC:47:ASP:HA	44:LC:49:PHE:CE1	2.50	0.46
44:LC:274:PRO:HG3	44:LC:286:LEU:HD12	1.96	0.46
44:LC:315:CYS:HA	44:LC:379:SER:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:380:ARG:HA	45:LD:383:GLU:HG2	1.97	0.46
45:LF:66:MET:HA	45:LF:73:MET:HE1	1.97	0.46
45:LF:263:LEU:HG	45:LF:422:TYR:CD1	2.51	0.46
45:LF:315:ALA:O	45:LF:316:LEU:HD23	2.14	0.46
45:LH:101:TRP:O	45:LH:104:GLY:N	2.48	0.46
45:LH:193:VAL:HA	45:LH:264:HIS:HE2	1.80	0.46
44:LI:2:ARG:O	44:LI:2:ARG:HG3	2.16	0.46
45:LJ:172:SER:OG	45:LJ:175:VAL:HG22	2.15	0.46
45:LJ:256:ASN:ND2	45:LJ:350:LYS:HE3	2.29	0.46
44:LM:41:THR:HG22	44:LM:42:ILE:N	2.31	0.46
44:LM:104:ALA:CB	44:LM:411:GLU:HB2	2.45	0.46
44:LM:210:TYR:HE1	44:LM:227:LEU:CD1	2.27	0.46
45:LN:166:THR:OG1	45:LN:198:GLU:O	2.33	0.46
45:LN:385:PHE:CE2	45:LN:412:GLU:HB2	2.50	0.46
45:MB:207:LEU:HB3	45:MB:225:LEU:CD2	2.45	0.46
44:MC:18:ASN:HD21	44:MC:78:VAL:CG2	2.29	0.46
45:MD:6:HIS:NE2	45:MD:8:GLN:HB3	2.31	0.46
44:ME:328:VAL:HG11	44:ME:353:VAL:HG21	1.97	0.46
45:MF:97:ALA:HA	45:MF:103:LYS:HD2	1.96	0.46
45:MF:178:THR:HG22	45:MF:180:VAL:HG12	1.97	0.46
44:MG:292:THR:CG2	44:MG:317:MET:HE1	2.46	0.46
45:MH:260:PHE:HB3	45:MH:261:PRO:HD2	1.98	0.46
45:MH:332:ASN:O	45:MH:336:LYS:HE2	2.15	0.46
45:MJ:7:ILE:HD11	45:MJ:120:VAL:HG22	1.98	0.46
45:MJ:325:GLU:HA	45:MJ:328:GLU:HG2	1.97	0.46
45:MJ:345:ILE:O	45:MJ:345:ILE:HG23	2.15	0.46
45:ML:193:VAL:HA	45:ML:264:HIS:NE2	2.31	0.46
45:MN:152:ILE:HD12	45:MN:164:MET:CE	2.46	0.46
44:NA:174:SER:OG	44:NA:207:GLU:HB2	2.16	0.46
45:NB:4:ILE:HG22	45:NB:132:GLY:H	1.80	0.46
45:NB:12:CYS:HB3	45:NB:138:SER:HB2	1.97	0.46
45:NB:193:VAL:HG13	45:NB:194:GLU:N	2.30	0.46
44:NC:246:GLY:HA3	44:NC:249:ASN:OD1	2.16	0.46
44:NC:318:MET:SD	44:NC:354:GLY:HA3	2.55	0.46
45:ND:63:ALA:C	45:ND:64:ILE:HD13	2.36	0.46
45:ND:113:ILE:HG12	45:ND:117:LEU:HG	1.97	0.46
44:NE:81:GLY:O	44:NE:84:ARG:HG2	2.15	0.46
44:NG:3:GLU:OE2	44:NG:129:CYS:HA	2.15	0.46
44:NG:56:THR:HG23	44:NG:58:ALA:H	1.80	0.46
44:NG:203:MET:N	44:NG:268:MET:O	2.47	0.46
44:NG:291:ILE:HG13	44:NG:292:THR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:215:LEU:HD11	45:NH:273:LEU:HB3	1.96	0.46
44:NK:77:GLU:CA	44:NK:80:THR:HG22	2.37	0.46
44:NK:406:HIS:CD2	45:NL:261:PRO:HD3	2.50	0.46
45:NL:101:TRP:CB	45:NL:398:TYR:HE1	2.26	0.46
44:OA:397:LEU:O	44:OA:398:MET:HE2	2.16	0.46
44:OA:406:HIS:CE1	45:OB:261:PRO:HD3	2.51	0.46
44:OE:4:VAL:CG1	44:OE:52:PHE:HE1	2.28	0.46
45:OF:12:CYS:SG	45:OF:138:SER:HB2	2.55	0.46
45:OF:292:GLN:O	45:OF:292:GLN:HG2	2.16	0.46
44:OG:319:TYR:HD2	44:OG:323:VAL:HG11	1.81	0.46
45:OH:5:VAL:HG22	45:OH:133:PHE:HA	1.96	0.46
45:OH:184:ASN:OD1	45:OH:185:ALA:N	2.49	0.46
44:OI:181:VAL:HG11	45:OJ:256:ASN:HA	1.97	0.46
45:OJ:274:THR:HG23	45:OJ:279:GLN:HG3	1.96	0.46
44:OK:183:GLU:HG2	44:OK:184:PRO:CD	2.46	0.46
44:OK:227:LEU:HD12	44:OK:227:LEU:H	1.81	0.46
45:OL:101:TRP:NE1	45:OL:105:HIS:HB2	2.30	0.46
44:OM:23:LEU:HB3	44:OM:232:ALA:HB1	1.97	0.46
44:OM:237:SER:HB3	44:OM:320:ARG:HH11	1.79	0.46
45:ON:119:VAL:O	45:ON:122:LYS:HB3	2.15	0.46
44:PA:325:PRO:HG3	45:PD:222:TYR:CE2	2.50	0.46
45:PB:8:GLN:HB2	45:PB:13:GLY:C	2.36	0.46
44:PC:26:LEU:CD2	44:PC:363:VAL:HA	2.45	0.46
44:PC:313:MET:CE	44:PC:346:TRP:CZ2	2.99	0.46
44:PE:52:PHE:HB2	44:PE:53:PHE:CD1	2.51	0.46
44:PE:265:ILE:HG23	44:PE:432:TYR:HE1	1.80	0.46
45:PF:17:GLY:O	45:PF:21:TRP:HZ3	1.99	0.46
44:PG:117:LEU:O	44:PG:117:LEU:HD23	2.15	0.46
44:PG:302:MET:HA	44:PG:302:MET:CE	2.46	0.46
44:PI:423:GLU:O	44:PI:427:ALA:N	2.42	0.46
44:PM:100:ALA:HB1	45:PN:255:VAL:CG2	2.44	0.46
44:PM:221:ARG:HG3	45:PN:322:SER:CB	2.45	0.46
44:PM:420:GLU:HA	44:PM:423:GLU:OE2	2.15	0.46
45:PN:285:THR:HG23	45:PN:288:GLU:H	1.80	0.46
44:QA:9:VAL:HG23	44:QA:68:LEU:HB3	1.95	0.46
44:QA:31:GLN:HE22	44:QA:36:MET:HA	1.80	0.46
44:QA:75:ILE:HG23	44:QA:92:LEU:CB	2.45	0.46
44:QA:387:VAL:O	44:QA:390:ARG:HG2	2.15	0.46
45:QB:348:ASN:HA	44:QC:181:VAL:CG1	2.46	0.46
44:QE:175:PRO:HB3	44:QE:390:ARG:CD	2.45	0.46
45:QF:68:LEU:N	45:QF:68:LEU:HD12	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:199:ASP:O	44:QG:266:HIS:HB2	2.16	0.46
45:QH:259:PRO:HB3	44:QI:404:PHE:CE1	2.50	0.46
45:QH:318:ARG:HD3	45:QH:358:PRO:CD	2.41	0.46
45:QL:23:VAL:HG11	45:QL:231:ALA:HA	1.97	0.46
45:QL:29:GLY:CA	45:QL:43:GLN:HE21	2.28	0.46
45:QL:135:ILE:CG1	45:QL:152:ILE:HD11	2.25	0.46
45:QL:163:ILE:O	45:QL:164:MET:HE2	2.15	0.46
45:QN:139:LEU:HD21	45:QN:189:VAL:HG22	1.97	0.46
45:QN:146:GLY:HA2	45:QN:149:THR:CG2	2.44	0.46
44:RA:188:ILE:HD13	44:RA:395:PHE:CD1	2.51	0.46
44:RA:319:TYR:O	44:RA:356:ASN:N	2.46	0.46
45:RB:25:SER:OG	45:RB:51:TYR:OH	2.04	0.46
44:RC:237:SER:C	44:RC:318:MET:HE1	2.36	0.46
44:RE:52:PHE:HE2	44:RE:239:THR:HB	1.81	0.46
44:RG:67:PHE:O	44:RG:68:LEU:HD12	2.16	0.46
44:RG:88:HIS:HB3	44:RG:91:GLN:CG	2.46	0.46
44:RG:182:VAL:HG21	44:RG:408:TYR:OH	2.15	0.46
45:RH:6:HIS:HE1	45:RH:8:GLN:HB3	1.80	0.46
45:RH:367:PHE:CZ	45:RH:369:GLY:HA3	2.50	0.46
45:RJ:95:THR:OG1	45:RJ:108:GLU:HG2	2.16	0.46
45:RJ:192:LEU:CD1	45:RJ:196:ALA:HB2	2.46	0.46
45:RL:2:ARG:NH1	44:RM:72:PRO:HG2	2.30	0.46
45:RL:70:PRO:HD2	45:RL:71:GLY:H	1.79	0.46
45:RL:217:LEU:HD12	45:RL:217:LEU:O	2.15	0.46
45:RL:322:SER:HA	44:RM:223:THR:HB	1.96	0.46
44:RM:3:GLU:O	44:RM:132:LEU:HA	2.15	0.46
44:RM:67:PHE:C	44:RM:68:LEU:HD12	2.36	0.46
44:RM:118:CYS:HA	44:RM:121:ARG:CD	2.42	0.46
44:RM:150:GLY:HA2	44:RM:153:LEU:HG	1.96	0.46
44:RM:219:ILE:HG21	44:RM:222:PRO:HB3	1.97	0.46
45:RN:183:TYR:OH	45:RN:388:MET:HG2	2.15	0.46
44:SA:143:GLY:O	44:SA:147:SER:N	2.49	0.46
44:SA:169:PHE:CE1	44:SA:235:ILE:HD11	2.50	0.46
44:SA:213:CYS:O	44:SA:218:ASP:N	2.47	0.46
44:SA:274:PRO:HD2	44:SA:374:ALA:HA	1.97	0.46
45:SB:97:ALA:HB2	45:SB:143:THR:CG2	2.45	0.46
44:SC:240:ALA:HB1	44:SC:356:ASN:ND2	2.29	0.46
45:SD:73:MET:SD	45:SD:92:PHE:HB3	2.55	0.46
44:SE:2:ARG:HG2	44:SE:51:THR:OG1	2.16	0.46
45:SF:86:ARG:HE	45:SF:88:ASP:H	1.63	0.46
44:SG:51:THR:HG22	44:SG:52:PHE:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:387:VAL:O	44:SG:390:ARG:HG2	2.15	0.46
45:SH:179:VAL:O	45:SH:182:PRO:HD2	2.15	0.46
45:SH:321:MET:HB3	45:SH:363:MET:HE2	1.97	0.46
45:SH:331:LEU:HD12	45:SH:334:GLN:NE2	2.31	0.46
45:SJ:103:LYS:N	45:SJ:401:GLU:OE1	2.48	0.46
44:SK:204:LEU:HD13	44:SK:231:ILE:CG2	2.45	0.46
45:SL:56:GLY:HA3	45:TL:280:GLN:HE21	1.80	0.46
45:SL:116:VAL:HA	45:SL:119:VAL:CG1	2.39	0.46
44:SM:7:ILE:HB	44:SM:137:VAL:HA	1.96	0.46
45:TB:203:ASP:HB2	45:TB:206:ALA:HB3	1.97	0.46
44:TC:133:GLN:CB	44:TC:252:ILE:HD12	2.46	0.46
44:TC:256:GLN:O	44:TC:256:GLN:HG2	2.16	0.46
45:TD:175:VAL:O	45:TD:175:VAL:HG23	2.15	0.46
44:TE:13:GLY:O	44:TE:16:VAL:HG12	2.14	0.46
44:TE:66:VAL:HG23	44:TE:91:GLN:O	2.15	0.46
44:TE:226:ASN:HD22	44:TE:229:ARG:NH1	2.11	0.46
45:TF:292:GLN:NE2	45:TF:298:ASN:OD1	2.32	0.46
44:TG:24:PHE:HE1	44:TG:236:SER:CB	2.28	0.46
45:TH:12:CYS:SG	45:TH:16:ILE:HD11	2.56	0.46
45:TH:132:GLY:CA	45:TH:162:ARG:HB3	2.43	0.46
45:TH:247:ASN:HD22	44:TI:73:THR:CB	2.26	0.46
45:TJ:267:MET:HE1	45:TJ:299:MET:HG3	1.96	0.46
45:TJ:310:TYR:HA	45:TJ:371:SER:HA	1.97	0.46
44:TK:106:GLY:HA3	44:TK:148:GLY:HA3	1.97	0.46
44:TK:223:THR:HG23	44:TK:225:THR:OG1	2.15	0.46
44:TK:291:ILE:HG13	44:TK:292:THR:N	2.30	0.46
45:TL:113:ILE:O	45:TL:116:VAL:HG12	2.16	0.46
44:TM:329:ASN:HA	44:TM:332:ILE:HG12	1.97	0.46
44:UA:247:ALA:HB2	44:UA:357:TYR:CE1	2.50	0.46
44:UA:340:THR:HG23	44:UA:341:ILE:HG13	1.96	0.46
45:UB:30:ILE:CD1	45:UB:36:TYR:HA	2.44	0.46
45:UB:252:LYS:HG3	44:UC:101:ASN:OD1	2.15	0.46
45:UB:282:ARG:NH2	45:UB:288:GLU:OE2	2.43	0.46
45:UB:309:ARG:HA	45:UB:340:TYR:O	2.16	0.46
44:UC:437:ILE:O	44:UC:437:ILE:HG13	2.15	0.46
44:UE:254:GLU:HG3	45:UF:98:GLY:HA2	1.97	0.46
45:UF:267:MET:HG3	45:UF:299:MET:HE1	1.96	0.46
45:UF:405:GLU:C	45:UF:408:PHE:H	2.18	0.46
45:UH:5:VAL:CG1	45:UH:62:ARG:HB2	2.45	0.46
45:UH:138:SER:HA	45:UH:169:VAL:HB	1.96	0.46
45:UH:192:LEU:HD12	45:UH:196:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UH:314:SER:OG	45:UH:368:VAL:O	2.27	0.46
44:UI:261:PRO:HG2	44:UI:313:MET:CG	2.46	0.46
45:UJ:50:TYR:OH	45:UJ:237:THR:HG21	2.15	0.46
44:UK:254:GLU:CG	45:UL:98:GLY:HA2	2.41	0.46
45:UL:251:ARG:O	45:UL:255:VAL:N	2.47	0.46
44:UM:201:ALA:HB1	44:UM:267:PHE:CD2	2.50	0.46
44:UM:214:ARG:HD2	44:UM:215:ARG:N	2.29	0.46
44:UM:242:LEU:HD11	44:UM:252:ILE:N	2.30	0.46
45:UN:3:GLU:C	45:UN:4:ILE:HD13	2.36	0.46
45:UN:49:VAL:O	45:UN:62:ARG:NH1	2.46	0.46
45:UN:315:ALA:CB	45:UN:351:SER:HA	2.35	0.46
44:VA:145:THR:HG22	46:VA:501:GTP:O1B	2.15	0.46
45:VB:320:ARG:HH11	45:VB:357:PRO:HD3	1.80	0.46
45:VD:60:VAL:HG23	45:VD:84:LEU:O	2.15	0.46
45:VD:133:PHE:O	45:VD:165:GLU:N	2.41	0.46
45:VF:101:TRP:O	45:VF:105:HIS:N	2.49	0.46
45:VF:171:PRO:CD	45:VF:185:ALA:HB2	2.45	0.46
44:VG:251:ASP:OD2	44:VG:253:THR:HG22	2.16	0.46
44:VG:390:ARG:O	44:VG:394:LYS:N	2.49	0.46
44:VI:437:ILE:HG13	44:VI:437:ILE:O	2.16	0.46
45:VJ:110:ALA:O	45:VJ:113:ILE:HG22	2.16	0.46
44:VK:23:LEU:HD21	44:VK:233:GLN:HA	1.97	0.46
44:VM:259:LEU:HD22	44:VM:268:MET:CE	2.45	0.46
44:VM:269:LEU:HB2	44:VM:301:MET:HE2	1.97	0.46
44:WA:133:GLN:OE1	44:WA:133:GLN:HA	2.14	0.46
44:WA:210:TYR:CE1	44:WA:227:LEU:HD21	2.51	0.46
45:WB:101:TRP:HB3	45:WB:398:TYR:CE1	2.44	0.46
45:WB:139:LEU:CD1	45:WB:168:SER:HB3	2.45	0.46
45:WB:145:SER:O	45:WB:149:THR:HG23	2.14	0.46
44:WC:98:ASP:HB3	45:WD:249:ASP:OD2	2.15	0.46
45:WD:342:VAL:HG22	45:WD:344:TRP:CD1	2.51	0.46
44:WE:166:LYS:N	44:WE:199:ASP:OD2	2.47	0.46
45:WF:20:PHE:CZ	45:WF:24:ILE:HD11	2.50	0.46
45:WF:58:ARG:HH21	45:WF:84:LEU:CG	2.24	0.46
45:WF:258:ILE:HG13	45:WF:266:PHE:HZ	1.79	0.46
44:WG:88:HIS:ND1	44:WG:89:PRO:CD	2.79	0.46
44:WI:1:MET:O	44:WI:131:GLY:HA3	2.16	0.46
44:WK:317:MET:CG	44:WK:377:MET:HB3	2.45	0.46
45:WL:178:THR:HG22	45:WL:180:VAL:H	1.80	0.46
44:WM:72:PRO:HD2	45:WN:2:ARG:CZ	2.44	0.46
44:WM:288:VAL:HG23	44:WM:291:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:297:GLU:HB2	44:WM:300:ASN:HD22	1.81	0.46
45:WN:292:GLN:HA	45:WN:295:ASP:HB2	1.97	0.46
3:0B:269:PRO:HA	44:JI:39:ASP:O	2.15	0.46
8:0G:86:LEU:HG	45:JN:227:HIS:NE2	2.30	0.46
21:1K:158:THR:HG22	44:GC:282:TYR:OH	2.14	0.46
15:1V:98:LEU:CD1	44:LI:405:VAL:HG11	2.45	0.46
27:1W:195:TRP:CH2	44:LA:322:ASP:HB2	2.48	0.46
22:2L:787:GLU:OE1	44:BK:364:PRO:HG3	2.16	0.46
26:2R:97:ARG:CG	44:AG:42:ILE:HD11	2.33	0.46
26:2R:418:ARG:NH1	44:EG:43:GLY:HA2	2.30	0.46
32:3I:263:PHE:HZ	45:GJ:294:PHE:HD2	1.64	0.46
22:3L:160:ASP:HB2	44:CA:221:ARG:CZ	2.45	0.46
16:4X:1:MET:CE	44:LI:241:SER:HB2	2.45	0.46
37:5C:79:LEU:HD22	45:NJ:320:ARG:CZ	2.45	0.46
38:5G:200:LEU:HD22	38:5G:203:PHE:HE2	1.78	0.46
38:5H:79:ASN:O	38:5H:83:LEU:HD23	2.15	0.46
11:5Q:81:LYS:HB3	11:5Q:161:ARG:HB2	1.97	0.46
35:5R:396:ASP:O	35:5R:399:GLY:N	2.47	0.46
35:5R:398:LEU:HD21	45:EJ:276:ARG:NH2	2.30	0.46
35:5R:440:ARG:HD2	35:5R:442:PHE:CZ	2.50	0.46
36:5S:138:VAL:HG12	36:5S:138:VAL:O	2.16	0.46
40:6F:137:MET:HG3	45:IH:245:GLN:NE2	2.30	0.46
41:6G:136:PRO:HB2	44:VG:340:THR:HB	1.97	0.46
41:6G:148:ASP:O	41:6G:151:ILE:HG22	2.16	0.46
11:6Q:14:LEU:CB	11:6Q:165:ILE:HD12	2.46	0.46
11:6Q:34:ILE:HG23	11:6Q:49:ILE:HD11	1.97	0.46
11:6Q:116:PRO:HA	11:6Q:144:TYR:CE2	2.50	0.46
11:6Q:134:PHE:CD2	11:6Q:136:LEU:HB2	2.50	0.46
35:6R:202:GLU:OE1	35:6R:202:GLU:N	2.45	0.46
35:6R:226:LYS:HD3	35:6R:226:LYS:HA	1.77	0.46
35:7R:262:TRP:HD1	35:7R:346:ASP:O	1.97	0.46
45:AD:117:LEU:HD21	45:AD:121:ARG:HH22	1.81	0.46
45:AD:130:LEU:HD21	45:AD:133:PHE:HE1	1.76	0.46
45:AD:268:ILE:HG22	45:AD:368:VAL:HG13	1.98	0.46
44:AE:200:VAL:HG13	44:AE:268:MET:SD	2.56	0.46
44:AE:437:ILE:HG13	44:AE:437:ILE:O	2.15	0.46
44:AG:137:VAL:HG12	44:AG:167:LEU:O	2.15	0.46
44:AG:400:ALA:C	44:AG:401:LYS:HD2	2.36	0.46
45:AJ:21:TRP:O	45:AJ:24:ILE:HG22	2.16	0.46
45:AJ:236:VAL:HG12	45:AJ:250:LEU:CD2	2.45	0.46
44:AK:406:HIS:HA	44:AK:409:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AL:152:ILE:HG22	45:AL:195:ASN:HB3	1.98	0.46
45:AL:162:ARG:HA	45:AL:162:ARG:HE	1.80	0.46
45:AL:267:MET:SD	45:AL:371:SER:OG	2.61	0.46
44:AM:6:SER:C	44:AM:7:ILE:HD13	2.36	0.46
44:AM:102:ASN:OD1	44:AM:105:ARG:N	2.40	0.46
44:AM:269:LEU:HD13	44:AM:303:ALA:HB3	1.95	0.46
44:AM:292:THR:HG21	44:AM:331:SER:HB3	1.96	0.46
45:AN:260:PHE:HZ	45:AN:344:TRP:CH2	2.31	0.46
45:AN:295:ASP:OD2	45:AN:297:LYS:HG2	2.16	0.46
44:BA:224:TYR:O	44:BA:228:ASN:ND2	2.47	0.46
44:BA:258:ASN:HD21	44:BA:352:LYS:HB2	1.80	0.46
44:BC:7:ILE:HG23	44:BC:66:VAL:HG13	1.97	0.46
45:BD:192:LEU:CD1	45:BD:196:ALA:HB2	2.46	0.46
44:BE:183:GLU:N	44:BE:183:GLU:OE1	2.41	0.46
44:BG:241:SER:CA	44:BG:356:ASN:HD21	2.14	0.46
45:BH:245:GLN:HB2	45:BH:353:ILE:HB	1.97	0.46
45:BH:272:PRO:C	45:BH:273:LEU:HD22	2.36	0.46
45:BJ:100:ASN:ND2	45:BJ:401:GLU:OE1	2.48	0.46
44:BK:156:ARG:HA	44:BK:159:VAL:HG12	1.97	0.46
44:BK:397:LEU:HD21	45:BL:344:TRP:HA	1.98	0.46
45:BL:229:VAL:HG22	45:BL:300:MET:CE	2.44	0.46
44:BM:311:LYS:NZ	44:BM:342:GLN:HB2	2.30	0.46
45:BN:304:ASP:OD2	45:BN:307:HIS:NE2	2.48	0.46
44:CA:313:MET:N	44:CA:380:ASN:O	2.35	0.46
44:CA:320:ARG:CB	44:CA:356:ASN:HB3	2.43	0.46
45:CB:9:GLY:C	45:CB:66:MET:HG2	2.35	0.46
45:CB:86:ARG:HG2	45:CB:86:ARG:HH11	1.81	0.46
45:CB:105:HIS:HB2	45:CB:146:GLY:C	2.35	0.46
45:CB:105:HIS:HD2	45:CB:146:GLY:O	1.98	0.46
45:CB:229:VAL:O	45:CB:229:VAL:HG12	2.16	0.46
45:CB:285:THR:HB	45:CB:287:PRO:HD2	1.97	0.46
45:CD:68:LEU:HG	45:CD:68:LEU:O	2.14	0.46
44:CE:11:GLN:N	44:CE:11:GLN:OE1	2.45	0.46
44:CG:147:SER:HB2	44:CG:190:SER:HB3	1.96	0.46
44:CG:252:ILE:HA	44:CG:255:PHE:CE2	2.49	0.46
44:CG:261:PRO:HG3	45:CH:394:PHE:HE2	1.79	0.46
45:CH:66:MET:HE2	45:CH:147:MET:HE3	1.96	0.46
45:CJ:317:PHE:CA	45:CJ:365:VAL:HG12	2.27	0.46
44:CM:2:ARG:HD2	44:CM:51:THR:OG1	2.15	0.46
44:CM:11:GLN:NE2	46:CM:501:GTP:O3A	2.49	0.46
45:CN:83:GLN:OE1	45:CN:83:GLN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:155:GLU:HG2	44:DA:197:HIS:CD2	2.51	0.46
44:DA:385:ALA:O	44:DA:388:PHE:N	2.47	0.46
45:DB:73:MET:CE	45:DB:90:PHE:HB3	2.45	0.46
45:DB:105:HIS:HD2	45:DB:146:GLY:HA3	1.79	0.46
44:DC:191:THR:O	44:DC:195:LEU:N	2.48	0.46
45:DD:415:MET:O	45:DD:419:VAL:HG23	2.16	0.46
44:DE:3:GLU:HG3	44:DE:129:CYS:CB	2.46	0.46
44:DE:25:CYS:HA	44:DE:30:ILE:CD1	2.45	0.46
44:DE:46:ASP:O	44:DE:47:ASP:HB2	2.16	0.46
44:DE:79:ARG:HD3	44:DE:79:ARG:H	1.80	0.46
44:DE:302:MET:CE	44:DE:302:MET:HA	2.46	0.46
44:DE:307:PRO:HB3	44:DE:312:TYR:OH	2.16	0.46
44:DG:66:VAL:HG21	44:DG:122:ILE:HD11	1.98	0.46
44:DG:175:PRO:HG2	44:DG:304:LYS:CG	2.46	0.46
45:DH:62:ARG:O	45:DH:62:ARG:CG	2.63	0.46
45:DH:87:PRO:HA	45:DH:90:PHE:CD2	2.50	0.46
45:DJ:345:ILE:O	45:DJ:348:ASN:OD1	2.32	0.46
45:DJ:372:THR:HA	45:DJ:422:TYR:CZ	2.50	0.46
44:DK:37:PRO:CD	44:DK:38:SER:N	2.79	0.46
44:DK:287:SER:O	44:DK:290:GLU:HG2	2.16	0.46
44:DK:311:LYS:NZ	44:DK:438:GLU:HG3	2.30	0.46
44:DM:17:GLY:O	44:DM:21:TRP:CD1	2.69	0.46
44:DM:288:VAL:CG2	44:DM:373:ARG:HE	2.27	0.46
44:DM:318:MET:HA	44:DM:354:GLY:O	2.16	0.46
45:DN:2:ARG:HB2	45:DN:131:GLN:OE1	2.16	0.46
45:DN:279:GLN:OE1	45:DN:279:GLN:N	2.49	0.46
45:EB:100:ASN:ND2	45:EB:102:ALA:HB3	2.31	0.46
45:EB:255:VAL:HG11	44:EC:100:ALA:O	2.15	0.46
45:EB:316:LEU:O	45:EB:366:THR:N	2.46	0.46
44:EC:350:GLY:HA2	45:ED:179:VAL:HG12	1.98	0.46
45:ED:323:THR:O	45:ED:326:VAL:N	2.48	0.46
45:ED:378:PHE:CA	45:ED:381:VAL:HG12	2.45	0.46
45:ED:378:PHE:HB3	45:ED:419:VAL:HG21	1.98	0.46
45:EF:231:ALA:HB1	45:EF:270:PHE:CE2	2.51	0.46
45:EF:268:ILE:O	45:EF:300:MET:HB2	2.15	0.46
44:EG:18:ASN:O	44:EG:21:TRP:N	2.47	0.46
44:EG:209:ILE:HG12	44:EG:302:MET:CE	2.46	0.46
45:EH:24:ILE:HG23	45:EH:28:HIS:CD2	2.48	0.46
45:EH:323:THR:HG22	44:EI:223:THR:HA	1.98	0.46
44:EI:104:ALA:HB2	44:EI:413:MET:CE	2.46	0.46
45:EJ:49:VAL:HG21	45:EJ:241:ARG:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:289:LEU:HD11	45:EJ:363:MET:CG	2.29	0.46
44:EK:268:MET:HB2	44:EK:380:ASN:CA	2.45	0.46
44:EK:363:VAL:CG2	44:EK:364:PRO:HD2	2.45	0.46
45:EL:217:LEU:HD12	45:EL:218:THR:N	2.31	0.46
44:EM:312:TYR:HA	44:EM:381:SER:CA	2.45	0.46
45:EN:60:VAL:O	45:EN:60:VAL:HG13	2.15	0.46
45:EN:67:ASP:OD1	45:EN:68:LEU:N	2.48	0.46
45:FB:31:ASP:HB3	45:FB:32:PRO:CD	2.45	0.46
45:FB:239:CYS:CB	45:FB:354:CYS:HB2	2.46	0.46
44:FC:19:ALA:CB	44:FC:228:ASN:HB3	2.45	0.46
44:FC:105:ARG:O	44:FC:110:ILE:HG12	2.15	0.46
44:FC:138:PHE:HE1	44:FC:169:PHE:CD1	2.33	0.46
44:FC:340:THR:HG23	44:FC:341:ILE:CD1	2.24	0.46
45:FD:352:SER:C	45:FD:353:ILE:HD12	2.36	0.46
44:FE:98:ASP:HB3	45:FF:249:ASP:OD2	2.15	0.46
45:FF:136:THR:O	45:FF:136:THR:HG23	2.15	0.46
45:FH:89:ASN:O	45:FH:119:VAL:HG21	2.15	0.46
44:FI:30:ILE:HD13	44:FI:61:HIS:HB2	1.98	0.46
45:FL:242:PHE:CE2	45:FL:356:ILE:HG21	2.50	0.46
44:FM:274:PRO:HG3	44:FM:286:LEU:HD12	1.96	0.46
44:FM:437:ILE:O	44:FM:437:ILE:HG13	2.15	0.46
45:FN:73:MET:C	45:FN:76:VAL:HG12	2.36	0.46
45:FN:175:VAL:O	45:FN:175:VAL:HG23	2.15	0.46
45:FN:221:THR:O	45:FN:224:ASP:HB2	2.15	0.46
45:FN:236:VAL:HA	45:FN:316:LEU:HD22	1.97	0.46
45:FN:321:MET:SD	45:FN:321:MET:N	2.88	0.46
44:GA:387:VAL:HA	44:GA:390:ARG:HG2	1.96	0.46
44:GC:52:PHE:CZ	44:GC:239:THR:HG21	2.50	0.46
44:GC:107:HIS:NE2	44:GC:152:LEU:HD13	2.31	0.46
44:GC:222:PRO:C	45:GD:322:SER:HB2	2.35	0.46
44:GC:339:ARG:HG3	44:GC:339:ARG:HH11	1.80	0.46
44:GC:403:ALA:O	44:GC:405:VAL:HG23	2.16	0.46
45:GD:11:GLN:HG3	48:GD:503:GDP:O3B	2.15	0.46
45:GD:49:VAL:HG12	45:GD:50:TYR:HD1	1.80	0.46
45:GD:116:VAL:HA	45:GD:119:VAL:CG1	2.39	0.46
45:GD:193:VAL:HA	45:GD:264:HIS:HE1	1.81	0.46
45:GD:241:ARG:HD2	45:GD:242:PHE:CZ	2.50	0.46
45:GD:416:ASN:O	45:GD:420:SER:N	2.42	0.46
44:GE:183:GLU:CD	44:GE:184:PRO:HD3	2.36	0.46
44:GE:389:SER:O	44:GE:392:ASP:HB3	2.15	0.46
45:GF:295:ASP:OD1	45:GF:297:LYS:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:138:PHE:CD2	44:GG:169:PHE:HB2	2.51	0.46
44:GG:222:PRO:CG	45:GH:324:LYS:HD3	2.38	0.46
44:GI:175:PRO:HD3	44:GI:304:LYS:CE	2.42	0.46
44:GI:371:VAL:HG12	44:GI:372:MET:N	2.31	0.46
45:GJ:159:TYR:HB3	45:GJ:162:ARG:HG3	1.95	0.46
45:GJ:296:ALA:HA	45:GJ:299:MET:CE	2.46	0.46
44:GK:62:VAL:O	44:GK:62:VAL:HG13	2.15	0.46
44:GK:185:TYR:OH	44:GK:403:ALA:O	2.19	0.46
44:GK:198:THR:HG22	44:GK:200:VAL:H	1.81	0.46
44:GK:352:LYS:HD2	45:GN:177:ASP:O	2.15	0.46
44:GM:21:TRP:CZ3	44:GM:63:PRO:HB3	2.51	0.46
44:GM:216:ASN:O	44:GM:276:ILE:HG13	2.15	0.46
44:HA:186:ASN:OD1	44:HA:187:SER:N	2.49	0.46
44:HC:301:MET:HE3	44:HC:307:PRO:HD3	1.97	0.46
45:HF:150:LEU:O	45:HF:153:SER:N	2.48	0.46
44:HG:88:HIS:ND1	44:HG:89:PRO:HD2	2.30	0.46
44:HG:386:GLU:O	44:HG:390:ARG:HG2	2.15	0.46
45:HH:47:ILE:HD11	45:HH:51:TYR:CD2	2.50	0.46
44:HI:89:PRO:HG3	44:II:280:LYS:HG3	1.97	0.46
44:HI:183:GLU:HG2	44:HI:184:PRO:CD	2.44	0.46
44:HI:258:ASN:O	44:HI:258:ASN:OD1	2.34	0.46
45:HJ:66:MET:HE2	45:HJ:147:MET:SD	2.56	0.46
45:HJ:99:ASN:HA	45:HJ:142:GLY:CA	2.41	0.46
44:HK:102:ASN:ND2	44:HK:411:GLU:HG3	2.31	0.46
45:HL:31:ASP:HB3	45:HL:32:PRO:CD	2.45	0.46
45:HL:282:ARG:HG3	45:HL:282:ARG:NH1	2.30	0.46
44:HM:176:GLN:HE22	44:HM:304:LYS:HE2	1.81	0.46
44:HM:230:LEU:HD11	44:HM:275:ILE:HD13	1.97	0.46
44:HM:324:VAL:HG22	44:HM:325:PRO:CD	2.41	0.46
44:HM:384:ILE:O	44:HM:384:ILE:HG13	2.16	0.46
45:HN:86:ARG:HD2	45:IN:281:TYR:CG	2.50	0.46
44:IA:119:LEU:HD11	44:IA:156:ARG:HB3	1.97	0.46
44:IA:435:VAL:HA	45:ID:391:ARG:HH21	1.81	0.46
45:IB:268:ILE:HA	45:IB:368:VAL:HA	1.98	0.46
45:IB:387:ALA:O	45:IB:390:ARG:HG2	2.16	0.46
44:IC:388:PHE:HE1	44:IC:428:LEU:HD21	1.80	0.46
45:ID:49:VAL:HG11	45:ID:241:ARG:CD	2.45	0.46
44:IE:230:LEU:HD11	44:IE:275:ILE:HD13	1.96	0.46
45:IF:6:HIS:HA	45:IF:134:GLN:NE2	2.31	0.46
45:IF:60:VAL:HG23	45:IF:84:LEU:O	2.16	0.46
44:IG:7:ILE:CD1	44:IG:66:VAL:HG12	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:87:PHE:O	45:JH:281:TYR:HE2	1.98	0.46
45:IH:292:GLN:O	45:IH:295:ASP:N	2.40	0.46
45:IJ:220:PRO:HA	45:IJ:224:ASP:OD2	2.15	0.46
45:IJ:371:SER:O	45:IJ:374:ILE:HG12	2.15	0.46
45:IL:99:ASN:HA	45:IL:142:GLY:CA	2.44	0.46
45:IN:217:LEU:HD11	45:IN:220:PRO:CB	2.46	0.46
45:IN:286:VAL:HB	45:IN:287:PRO:HD3	1.98	0.46
45:IN:293:MET:HE3	45:IN:294:PHE:CD1	2.50	0.46
44:JA:320:ARG:HH21	44:JA:358:GLN:HG3	1.80	0.46
45:JB:107:THR:O	45:JB:111:GLU:HG2	2.16	0.46
44:JC:384:ILE:O	44:JC:384:ILE:HG22	2.15	0.46
44:JE:21:TRP:CZ2	44:JE:65:ALA:HB2	2.50	0.46
44:JE:297:GLU:OE1	44:JE:300:ASN:N	2.49	0.46
44:JE:416:GLY:HA3	44:NE:308:ARG:NH1	2.31	0.46
45:JF:139:LEU:HA	45:JF:145:SER:CB	2.38	0.46
44:JG:256:GLN:C	45:JJ:397:TRP:CZ3	2.89	0.46
44:JG:413:MET:HE2	44:JG:417:GLU:HB3	1.97	0.46
45:JH:3:GLU:CD	45:JH:127:CYS:HB2	2.35	0.46
45:JH:133:PHE:HB2	45:JH:164:MET:CB	2.43	0.46
44:JI:301:MET:HE2	44:JI:307:PRO:HG2	1.96	0.46
45:JJ:49:VAL:CG2	45:JJ:241:ARG:HG2	2.41	0.46
44:JK:260:VAL:O	44:JK:260:VAL:HG23	2.15	0.46
44:JK:344:VAL:HG22	44:JK:345:ASP:N	2.30	0.46
45:JL:257:LEU:HB3	45:JL:266:PHE:CZ	2.50	0.46
45:JN:46:ARG:HG2	45:JN:241:ARG:O	2.15	0.46
45:JN:403:MET:HE1	45:JN:407:GLU:HB3	1.97	0.46
45:KB:130:LEU:HD21	45:KB:133:PHE:CE1	2.50	0.46
45:KD:238:CYS:HB2	45:KD:318:ARG:HD3	1.98	0.46
44:KE:9:VAL:HG12	44:KE:68:LEU:HB2	1.97	0.46
45:KF:165:GLU:OE2	45:KF:250:LEU:HD11	2.16	0.46
44:KG:238:LEU:HD12	44:KG:378:ILE:HD11	1.95	0.46
44:KI:60:LYS:HD3	44:LI:283:HIS:ND1	2.30	0.46
45:KJ:30:ILE:HD11	45:KJ:36:TYR:HD1	1.81	0.46
45:KJ:149:THR:OG1	45:KJ:191:GLN:HB3	2.15	0.46
45:KJ:216:LYS:HB2	45:KJ:275:SER:CB	2.45	0.46
45:KJ:342:VAL:CG1	45:KJ:345:ILE:HG22	2.45	0.46
45:KL:313:ALA:HB1	45:KL:367:PHE:CZ	2.50	0.46
45:KN:380:ARG:NH1	45:KN:381:VAL:HG22	2.31	0.46
45:LB:67:ASP:OD1	45:LB:68:LEU:N	2.42	0.46
45:LB:121:ARG:NH2	45:LB:125:GLU:OE2	2.49	0.46
44:LC:56:THR:HG1	44:MC:285:GLN:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LC:71:GLU:HG2	44:LC:71:GLU:O	2.16	0.46
44:LC:397:LEU:HD23	45:LD:346:PRO:HD3	1.96	0.46
45:LD:315:ALA:C	45:LD:316:LEU:HD22	2.36	0.46
45:LF:35:THR:HG22	45:LF:36:TYR:N	2.31	0.46
44:LG:329:ASN:CG	45:LJ:175:VAL:HG12	2.36	0.46
45:LH:135:ILE:HG13	45:LH:152:ILE:HD11	1.96	0.46
44:LI:51:THR:HG21	44:LI:243:ARG:CD	2.45	0.46
44:LI:105:ARG:CA	44:LI:109:THR:HG22	2.36	0.46
44:LI:250:VAL:HG13	44:LI:250:VAL:O	2.15	0.46
44:LI:331:SER:O	44:LI:335:ILE:HG12	2.16	0.46
45:LJ:130:LEU:HB3	45:LJ:162:ARG:NE	2.27	0.46
45:LL:172:SER:OG	45:LL:173:PRO:HD2	2.16	0.46
45:LL:427:ASP:OD1	45:LL:427:ASP:O	2.34	0.46
44:LM:138:PHE:CE1	44:LM:169:PHE:HB2	2.50	0.46
44:MA:254:GLU:HA	44:MA:257:THR:HG22	1.96	0.46
44:MC:313:MET:HE2	44:MC:435:VAL:HG11	1.97	0.46
45:MD:7:ILE:HG21	45:MD:151:LEU:CD2	2.46	0.46
45:MF:256:ASN:O	45:MF:257:LEU:HD12	2.16	0.46
45:MH:72:THR:HG23	45:MH:73:MET:HG3	1.97	0.46
45:MH:91:VAL:CG2	45:MH:116:VAL:HG22	2.35	0.46
45:MH:141:GLY:HA3	48:MH:501:GDP:O2B	2.16	0.46
45:MH:352:SER:C	45:MH:353:ILE:HD12	2.36	0.46
44:MI:204:LEU:HD21	44:MI:231:ILE:HG12	1.97	0.46
44:MI:260:VAL:HG12	44:MI:262:TYR:O	2.16	0.46
45:MJ:303:ALA:H	45:MJ:377:MET:HE3	1.81	0.46
45:ML:253:LEU:HD11	45:ML:316:LEU:HD21	1.97	0.46
45:ML:290:THR:HG21	45:ML:329:GLN:HE21	1.79	0.46
44:MM:7:ILE:HD12	44:MM:122:ILE:HD12	1.97	0.46
44:MM:406:HIS:HE1	45:MN:260:PHE:HA	1.79	0.46
45:MN:4:ILE:HG22	45:MN:131:GLN:HB3	1.97	0.46
45:MN:217:LEU:HD11	45:MN:220:PRO:CG	2.41	0.46
45:MN:313:ALA:HB3	45:MN:349:ILE:CD1	2.45	0.46
44:NA:294:SER:HA	44:NA:297:GLU:OE2	2.15	0.46
45:NB:137:HIS:HD2	45:NB:138:SER:O	1.98	0.46
44:NC:49:PHE:O	44:NC:53:PHE:HB2	2.15	0.46
44:NE:237:SER:HA	44:NE:320:ARG:NH1	2.30	0.46
44:NG:209:ILE:HG23	44:NG:302:MET:HE1	1.96	0.46
44:NG:244:PHE:CE2	44:NG:358:GLN:HG3	2.51	0.46
45:NH:47:ILE:HG13	45:NH:51:TYR:CD2	2.51	0.46
45:NH:299:MET:HG3	45:NH:305:PRO:CG	2.45	0.46
44:NI:173:PRO:HG2	44:NI:183:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:195:LEU:HD11	44:NI:264:ARG:HH21	1.80	0.46
44:NI:326:LYS:CG	45:NL:220:PRO:HD2	2.45	0.46
44:NK:213:CYS:O	44:NK:217:LEU:HB2	2.15	0.46
45:NL:113:ILE:O	45:NL:117:LEU:HG	2.14	0.46
45:NL:152:ILE:HG13	45:NL:164:MET:HE1	1.97	0.46
45:NL:263:LEU:CD2	45:NL:422:TYR:CD1	2.99	0.46
45:NL:418:LEU:HA	45:NL:421:GLU:CG	2.46	0.46
44:NM:213:CYS:SG	44:NM:217:LEU:HD22	2.55	0.46
44:NM:241:SER:HA	44:NM:356:ASN:ND2	2.31	0.46
44:NM:242:LEU:CD2	44:NM:252:ILE:HG13	2.43	0.46
45:NN:304:ASP:HB3	45:NN:307:HIS:CG	2.50	0.46
44:OA:23:LEU:HD11	44:OA:361:THR:OG1	2.15	0.46
45:OB:95:THR:HG23	45:OB:96:GLY:O	2.15	0.46
45:OB:215:LEU:HD23	45:OB:217:LEU:HD13	1.98	0.46
45:OB:242:PHE:CB	45:OB:356:ILE:HG13	2.43	0.46
44:OC:70:LEU:CD2	44:OC:110:ILE:HG22	2.46	0.46
44:OC:132:LEU:CD2	44:OC:164:LYS:HG2	2.46	0.46
44:OC:273:ALA:O	44:OC:375:VAL:N	2.41	0.46
44:OE:183:GLU:CG	44:OE:184:PRO:HD3	2.44	0.46
44:OE:188:ILE:CD1	44:OE:391:LEU:HB3	2.41	0.46
44:OE:271:SER:CA	44:OE:302:MET:HE2	2.45	0.46
45:OF:241:ARG:O	45:OF:241:ARG:HG2	2.14	0.46
45:OH:172:SER:HB3	45:OH:203:ASP:OD2	2.16	0.46
44:OI:344:VAL:HG21	44:OI:346:TRP:NE1	2.31	0.46
45:OJ:24:ILE:CD1	45:OJ:234:SER:HB2	2.43	0.46
44:OK:164:LYS:O	44:OK:166:LYS:NZ	2.40	0.46
45:OL:251:ARG:O	45:OL:254:ALA:HB3	2.15	0.46
45:OL:318:ARG:HB3	45:OL:357:PRO:CA	2.45	0.46
44:OM:11:GLN:NE2	45:ON:246:LEU:HA	2.30	0.46
44:OM:11:GLN:HB3	46:OM:501:GTP:PB	2.52	0.46
44:OM:212:ILE:HD13	44:OM:215:ARG:NH2	2.31	0.46
44:OM:289:ALA:O	44:OM:292:THR:HG22	2.15	0.46
45:ON:3:GLU:CB	45:ON:49:VAL:HA	2.46	0.46
44:PA:100:ALA:HB1	45:PB:252:LYS:CB	2.45	0.46
44:PA:105:ARG:O	44:PA:110:ILE:HG12	2.16	0.46
44:PA:200:VAL:HG22	44:PA:256:GLN:HB3	1.96	0.46
44:PC:7:ILE:N	44:PC:136:LEU:O	2.29	0.46
44:PC:435:VAL:HG22	44:PC:435:VAL:O	2.16	0.46
45:PD:70:PRO:HG3	45:PD:92:PHE:HB2	1.98	0.46
44:PE:30:ILE:O	44:PE:30:ILE:HG23	2.15	0.46
44:PE:70:LEU:HB3	44:PE:97:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:20:PHE:CD2	45:PF:24:ILE:HG22	2.50	0.46
45:PF:21:TRP:HD1	45:PF:84:LEU:HD22	1.81	0.46
44:PI:210:TYR:HH	45:PJ:323:THR:HG1	1.61	0.46
44:PI:255:PHE:O	44:PI:256:GLN:HB2	2.16	0.46
45:PJ:1:MET:HE3	45:PJ:129:CYS:HB3	1.98	0.46
45:PJ:325:GLU:O	45:PJ:328:GLU:HG2	2.16	0.46
44:PK:103:PHE:HB3	44:PK:408:TYR:CE2	2.50	0.46
44:PK:137:VAL:HG13	44:PK:137:VAL:O	2.15	0.46
44:PK:326:LYS:HE3	44:PK:327:ASP:OD2	2.16	0.46
45:PL:206:ALA:O	45:PL:209:ASP:N	2.49	0.46
45:PL:242:PHE:HB3	45:PL:243:PRO:HD2	1.97	0.46
45:PL:315:ALA:O	45:PL:316:LEU:HD12	2.16	0.46
44:PM:235:ILE:H	44:PM:235:ILE:HD12	1.80	0.46
45:PN:54:ALA:HA	45:QL:283:ALA:HB2	1.98	0.46
45:PN:58:ARG:NH2	45:QL:281:TYR:OH	2.47	0.46
45:PN:225:LEU:O	45:PN:228:LEU:N	2.48	0.46
44:QA:33:ASP:C	44:QA:86:LEU:HD21	2.36	0.46
44:QA:422:ARG:O	44:QA:425:LEU:HB2	2.15	0.46
45:QB:6:HIS:NE2	45:QB:8:GLN:HB2	2.30	0.46
45:QB:54:ALA:HA	45:RB:283:ALA:HA	1.97	0.46
45:QD:183:TYR:OH	45:QD:389:PHE:HA	2.15	0.46
45:QF:207:LEU:CB	45:QF:225:LEU:HD22	2.45	0.46
45:QF:271:ALA:O	45:QF:365:VAL:HB	2.15	0.46
44:QG:11:GLN:OE1	44:QG:11:GLN:HA	2.15	0.46
44:QG:215:ARG:HH22	44:QG:300:ASN:HA	1.81	0.46
45:QH:14:ASN:ND2	45:QH:73:MET:HE3	2.31	0.46
45:QH:164:MET:H	45:QH:197:ASP:HB2	1.81	0.46
45:QH:178:THR:CG2	45:QH:180:VAL:HG12	2.45	0.46
44:QI:2:ARG:O	44:QI:2:ARG:HG2	2.14	0.46
44:QK:80:THR:CA	44:QK:84:ARG:HD2	2.46	0.46
44:QK:86:LEU:HD22	44:QK:86:LEU:N	2.30	0.46
44:QK:167:LEU:HD21	44:QK:255:PHE:HE2	1.80	0.46
45:QL:31:ASP:OD2	45:QL:37:HIS:ND1	2.48	0.46
45:QL:260:PHE:HB2	45:QL:263:LEU:HD13	1.96	0.46
45:QL:269:GLY:HA2	45:QL:300:MET:CE	2.46	0.46
45:QL:323:THR:CG2	45:QL:353:ILE:HG12	2.46	0.46
44:QM:69:ASP:OD1	44:QM:70:LEU:N	2.48	0.46
44:QM:119:LEU:HD21	44:QM:156:ARG:HD2	1.96	0.46
44:QM:254:GLU:HG2	45:QN:98:GLY:O	2.15	0.46
44:QM:274:PRO:CD	44:QM:374:ALA:HA	2.42	0.46
45:QN:86:ARG:HB2	45:QN:89:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:296:ALA:HB3	45:QN:306:ARG:NH1	2.31	0.46
45:QN:382:ALA:O	45:QN:386:THR:HG22	2.16	0.46
44:RA:50:ASN:HA	44:RA:53:PHE:O	2.16	0.46
45:RB:139:LEU:CD1	45:RB:168:SER:HB3	2.45	0.46
45:RB:377:MET:O	45:RB:380:ARG:HG2	2.16	0.46
44:RC:181:VAL:HG22	44:RC:181:VAL:O	2.16	0.46
45:RD:119:VAL:CA	45:RD:122:LYS:HG2	2.39	0.46
45:RD:244:GLY:HA2	45:RD:355:ASP:OD2	2.15	0.46
45:RD:258:ILE:HD11	45:RD:266:PHE:HZ	1.81	0.46
44:RE:145:THR:HG23	44:RE:146:GLY:N	2.31	0.46
45:RF:131:GLN:O	45:RF:163:ILE:HG12	2.16	0.46
45:RH:11:GLN:CA	45:RH:14:ASN:HD22	2.12	0.46
44:RI:207:GLU:OE2	44:RI:304:LYS:NZ	2.46	0.46
44:RI:389:SER:O	44:RI:392:ASP:N	2.48	0.46
45:RJ:206:ALA:HB3	45:RJ:300:MET:O	2.16	0.46
45:RJ:273:LEU:C	45:RJ:292:GLN:HE22	2.17	0.46
45:RJ:318:ARG:HH11	45:RJ:358:PRO:HG3	1.80	0.46
44:RK:148:GLY:HA2	44:RK:151:SER:OG	2.16	0.46
44:RK:166:LYS:C	44:RK:167:LEU:HD12	2.36	0.46
45:RL:68:LEU:HB3	45:RL:96:GLY:HA2	1.97	0.46
45:RL:388:MET:HB3	45:RL:393:ALA:HB3	1.96	0.46
45:RL:398:TYR:O	45:RL:403:MET:HB3	2.15	0.46
44:RM:88:HIS:CE1	44:RM:89:PRO:HD2	2.50	0.46
44:RM:118:CYS:O	44:RM:121:ARG:N	2.49	0.46
45:RN:7:ILE:HG12	45:RN:64:ILE:HD13	1.98	0.46
45:RN:16:ILE:HD13	45:RN:226:ASN:OD1	2.16	0.46
45:RN:113:ILE:HG12	45:RN:117:LEU:HD21	1.96	0.46
44:SA:137:VAL:HG12	44:SA:168:GLY:HA2	1.97	0.46
44:SA:270:SER:HB3	44:SA:378:ILE:CD1	2.45	0.46
45:SB:49:VAL:HG12	45:SB:50:TYR:CE1	2.50	0.46
44:SC:195:LEU:CD2	44:SC:264:ARG:HH22	2.27	0.46
45:SD:8:GLN:HE21	45:SD:14:ASN:HA	1.80	0.46
45:SD:143:THR:HG23	48:SD:501:GDP:O1B	2.16	0.46
45:SD:374:ILE:HA	45:SD:377:MET:CE	2.46	0.46
44:SE:156:ARG:HB3	44:SE:160:ASP:OD2	2.15	0.46
44:SE:228:ASN:HA	44:SE:231:ILE:HD12	1.97	0.46
45:SF:61:PRO:HG3	45:SF:84:LEU:HB3	1.97	0.46
45:SF:303:ALA:HB2	45:SF:377:MET:CE	2.45	0.46
44:SG:323:VAL:CG1	44:SG:355:ILE:HG23	2.45	0.46
45:SH:108:GLU:O	45:SH:112:LEU:N	2.45	0.46
44:SI:285:GLN:HG3	44:SI:287:SER:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:229:VAL:O	45:SJ:232:ALA:HB3	2.15	0.46
45:SJ:318:ARG:HA	45:SJ:354:CYS:HB3	1.96	0.46
44:SK:21:TRP:HZ3	44:SK:53:PHE:CZ	2.34	0.46
44:SK:329:ASN:OD1	45:SL:175:VAL:HB	2.15	0.46
44:SM:182:VAL:HG22	44:SM:182:VAL:O	2.15	0.46
45:SN:152:ILE:HD13	45:SN:164:MET:HE1	1.96	0.46
44:TA:8:HIS:O	44:TA:68:LEU:HB2	2.15	0.46
44:TA:9:VAL:HG21	44:TA:149:LEU:HB3	1.98	0.46
45:TB:139:LEU:HD22	45:TB:170:VAL:HG12	1.97	0.46
45:TB:237:THR:HG23	45:TB:241:ARG:NE	2.28	0.46
45:TB:377:MET:HE3	45:TB:380:ARG:HH22	1.80	0.46
44:TC:23:LEU:HD11	44:TC:361:THR:CG2	2.45	0.46
44:TC:262:TYR:OH	45:TD:391:ARG:HB3	2.16	0.46
45:TD:65:LEU:HD21	45:TD:85:PHE:CE2	2.50	0.46
45:TD:99:ASN:HA	45:TD:142:GLY:N	2.31	0.46
44:TE:319:TYR:HA	44:TE:375:VAL:HG23	1.97	0.46
44:TE:372:MET:O	44:TE:373:ARG:HD3	2.16	0.46
44:TE:401:LYS:O	44:TE:402:ARG:HG2	2.15	0.46
45:TF:217:LEU:HD11	45:TF:220:PRO:HG3	1.96	0.46
45:TF:313:ALA:HB1	45:TF:367:PHE:CZ	2.50	0.46
45:TH:10:GLY:HA2	48:TH:501:GDP:O1B	2.16	0.46
45:TH:324:LYS:HE2	44:TI:210:TYR:HB3	1.97	0.46
44:TI:138:PHE:CD1	44:TI:169:PHE:HB2	2.51	0.46
44:TI:204:LEU:HD22	44:TI:302:MET:SD	2.55	0.46
45:TJ:101:TRP:CE3	45:TJ:187:LEU:HD13	2.50	0.46
45:TJ:140:GLY:O	48:TJ:501:GDP:H5'	2.15	0.46
44:TK:171:ILE:HD13	44:TK:204:LEU:HB2	1.97	0.46
45:TL:161:ASP:OD1	45:TL:162:ARG:N	2.49	0.46
45:TL:252:LYS:HA	44:TM:101:ASN:OD1	2.15	0.46
44:TM:195:LEU:HD11	44:TM:428:LEU:HD13	1.98	0.46
45:TN:1:MET:CE	45:TN:46:ARG:HH12	2.28	0.46
45:TN:257:LEU:HD12	45:TN:350:LYS:HD3	1.96	0.46
45:TN:310:TYR:HB2	45:TN:341:PHE:CE2	2.50	0.46
44:UA:16:VAL:HG21	44:UA:231:ILE:HG21	1.98	0.46
44:UA:247:ALA:HB3	44:UA:355:ILE:HB	1.98	0.46
44:UC:52:PHE:O	44:UC:64:ARG:HB2	2.16	0.46
44:UC:190:SER:O	44:UC:193:SER:HB3	2.15	0.46
44:UC:239:THR:C	44:UC:243:ARG:HE	2.17	0.46
44:UC:320:ARG:HB2	44:UC:358:GLN:O	2.16	0.46
44:UC:324:VAL:O	44:UC:327:ASP:HB2	2.15	0.46
44:UE:326:LYS:HD2	44:UE:327:ASP:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UF:174:LYS:HD2	45:UF:175:VAL:CG1	2.30	0.46
45:UF:285:THR:OG1	45:UF:287:PRO:HD2	2.15	0.46
44:UG:352:LYS:HA	45:UH:178:THR:CA	2.44	0.46
45:UH:245:GLN:C	45:UH:246:LEU:HD12	2.35	0.46
44:UI:93:ILE:HD12	44:UI:93:ILE:H	1.81	0.46
44:UI:402:ARG:C	44:UI:405:VAL:HG13	2.36	0.46
45:UL:1:MET:C	45:UL:2:ARG:HG2	2.36	0.46
45:UL:255:VAL:HG21	44:UM:100:ALA:O	2.15	0.46
44:UM:268:MET:HG3	44:UM:380:ASN:CG	2.36	0.46
45:UN:105:HIS:CE1	45:UN:150:LEU:HD12	2.51	0.46
45:UN:242:PHE:CB	45:UN:356:ILE:HG13	2.46	0.46
44:VA:98:ASP:OD1	44:VA:99:ALA:N	2.49	0.46
44:VA:221:ARG:CZ	45:VB:325:GLU:HB2	2.46	0.46
45:VB:5:VAL:HG22	45:VB:132:GLY:O	2.15	0.46
44:VC:73:THR:CB	45:VD:247:ASN:HD22	2.23	0.46
44:VC:183:GLU:CG	44:VC:184:PRO:HD3	2.46	0.46
44:VC:384:ILE:HG13	44:VC:384:ILE:O	2.15	0.46
45:VD:64:ILE:HG13	45:VD:89:ASN:ND2	2.31	0.46
45:VD:73:MET:HA	45:VD:76:VAL:HG12	1.98	0.46
44:VE:405:VAL:HG11	44:VE:415:GLU:OE2	2.16	0.46
45:VF:342:VAL:HG13	45:VF:345:ILE:HG21	1.97	0.46
44:VI:181:VAL:O	44:VI:181:VAL:HG22	2.15	0.46
45:VJ:187:LEU:HD11	45:VJ:408:PHE:CZ	2.50	0.46
45:VJ:389:PHE:O	45:VJ:392:LYS:HD3	2.15	0.46
45:VL:42:LEU:C	45:VL:45:GLU:HG3	2.36	0.46
45:VL:256:ASN:C	45:VL:257:LEU:HD12	2.35	0.46
45:VL:318:ARG:HB2	45:VL:354:CYS:HB3	1.96	0.46
44:VM:6:SER:O	44:VM:7:ILE:HD13	2.15	0.46
44:VM:183:GLU:CG	44:VM:184:PRO:HD3	2.46	0.46
44:WA:248:LEU:HD23	44:WA:353:VAL:O	2.16	0.46
44:WA:288:VAL:HA	44:WA:291:ILE:CG1	2.46	0.46
45:WB:139:LEU:HD13	45:WB:168:SER:HB3	1.98	0.46
44:WC:257:THR:HG22	45:WF:397:TRP:CZ2	2.51	0.46
44:WC:259:LEU:HD21	44:WC:316:SER:CB	2.43	0.46
45:WD:285:THR:OG1	45:WD:288:GLU:N	2.46	0.46
44:WE:176:GLN:NE2	44:WE:207:GLU:OE2	2.47	0.46
44:WE:181:VAL:HG23	45:WF:346:PRO:O	2.15	0.46
45:WF:133:PHE:HD2	45:WF:164:MET:HE3	1.80	0.46
45:WF:345:ILE:HG23	45:WF:348:ASN:HD22	1.80	0.46
44:WG:105:ARG:HD2	45:WH:251:ARG:NH2	2.30	0.46
45:WH:320:ARG:H	45:WH:320:ARG:HD3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:257:LEU:O	45:WJ:258:ILE:HD13	2.16	0.46
44:WM:53:PHE:CD2	44:WM:63:PRO:HG3	2.50	0.46
44:WM:100:ALA:HB1	45:WN:252:LYS:N	2.31	0.46
44:WM:256:GLN:O	44:WM:260:VAL:HB	2.15	0.46
45:WN:6:HIS:NE2	45:WN:8:GLN:OE1	2.41	0.46
45:WN:21:TRP:HZ2	45:WN:63:ALA:HB2	1.79	0.46
45:WN:22:GLU:HG2	45:WN:81:PHE:CB	2.45	0.46
1:6H:369:SER:N	45:FL:360:GLY:O	2.48	0.46
3:0B:171:MET:O	45:JJ:320:ARG:NH1	2.49	0.46
4:0C:83:SER:HB2	45:EH:355:ASP:CB	2.32	0.46
4:0C:121:LEU:HD12	44:DI:22:GLU:HG2	1.97	0.46
5:0D:55:GLY:N	44:EC:221:ARG:HB3	2.30	0.46
8:0G:144:TYR:HE1	44:KM:278:ALA:C	2.19	0.46
5:1D:75:ASP:HB3	45:EF:362:LYS:HB2	1.96	0.46
18:1F:160:ASN:HB3	45:GL:125:GLU:OE2	2.15	0.46
20:1J:274:ASN:HD22	45:IL:276:ARG:HB3	1.79	0.46
22:1L:870:ARG:HH21	45:CB:359:LYS:HG3	1.80	0.46
26:1R:93:VAL:HA	44:AC:370:LYS:NZ	2.31	0.46
26:1R:295:PHE:CD2	45:CD:77:ARG:HD2	2.49	0.46
14:1U:533:GLU:OE2	45:VF:37:HIS:NE2	2.31	0.46
2:2A:36:ARG:CD	45:MJ:243:PRO:HB2	2.46	0.46
6:2E:47:GLU:HG2	35:5R:380:ARG:HH22	1.80	0.46
30:2G:33:TRP:HB2	45:JJ:92:PHE:HZ	1.79	0.46
22:2L:826:LYS:HZ1	35:5R:177:VAL:CG2	2.28	0.46
26:2R:9:PRO:HA	45:MJ:227:HIS:CD2	2.51	0.46
12:2S:17:LYS:HE2	45:WJ:92:PHE:HE2	1.78	0.46
13:2T:139:TYR:CE1	45:MJ:107:THR:HB	2.49	0.46
2:3A:61:TYR:HD1	45:MN:48:ASN:HD21	1.62	0.46
2:3A:91:ASN:HA	45:MN:37:HIS:NE2	2.29	0.46
2:3A:152:LYS:NZ	35:6R:76:ASP:HA	2.30	0.46
6:3E:53:LYS:HE2	35:6R:382:TYR:HE1	1.81	0.46
13:3T:132:PRO:HB3	44:MK:123:ARG:NH1	2.31	0.46
34:4F:119:VAL:CG1	45:IL:359:LYS:HG3	2.45	0.46
35:4R:33:LEU:HD13	45:LF:94:GLN:HB2	1.96	0.46
38:5G:63:HIS:HB2	45:OJ:280:GLN:HE22	1.80	0.46
38:5G:73:ARG:HB2	38:5G:75:PHE:CE1	2.51	0.46
38:5G:73:ARG:HB2	38:5G:75:PHE:HE1	1.80	0.46
39:5I:94:ILE:HG13	39:5I:94:ILE:O	2.14	0.46
35:6R:391:PHE:CE2	45:EN:227:HIS:HD2	2.31	0.46
35:7R:87:LYS:HG2	35:7R:88:TYR:CD1	2.51	0.46
35:7R:428:GLY:HA2	35:7R:506:LEU:HD23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:22:GLU:HG3	44:AA:83:TYR:CZ	2.51	0.46
44:AA:326:LYS:HD3	45:AD:220:PRO:HD2	1.97	0.46
44:AC:205:ASP:OD1	44:AC:303:ALA:HA	2.15	0.46
44:AE:240:ALA:HB2	44:AE:320:ARG:HH12	1.81	0.46
44:AE:349:THR:OG1	45:AH:176:SER:OG	2.16	0.46
45:AF:100:ASN:HB3	45:AF:103:LYS:HG2	1.97	0.46
45:AF:170:VAL:CG2	45:AF:171:PRO:HD2	2.45	0.46
44:AG:155:GLU:HG2	44:AG:197:HIS:CD2	2.51	0.46
44:AG:183:GLU:N	44:AG:183:GLU:OE1	2.42	0.46
45:AH:29:GLY:HA3	45:AH:43:GLN:NE2	2.31	0.46
44:AI:60:LYS:NZ	44:BI:283:HIS:HE1	2.13	0.46
44:AI:141:VAL:CG1	44:AI:172:TYR:HD1	2.18	0.46
45:AJ:65:LEU:HD21	45:AJ:85:PHE:HE2	1.81	0.46
44:AK:250:VAL:HG22	44:AK:352:LYS:NZ	2.31	0.46
45:AL:121:ARG:NH2	45:AL:158:GLU:OE2	2.49	0.46
45:AN:20:PHE:CZ	45:AN:24:ILE:HG13	2.51	0.46
45:AN:306:ARG:HA	45:AN:340:TYR:CE1	2.50	0.46
45:AN:309:ARG:HB3	45:AN:340:TYR:O	2.15	0.46
45:BB:100:ASN:HD22	45:BB:103:LYS:HB2	1.79	0.46
44:BC:13:GLY:HA2	44:BC:16:VAL:CG1	2.45	0.46
44:BC:181:VAL:HG13	44:BC:182:VAL:HG13	1.98	0.46
44:BC:276:ILE:CD1	44:BC:281:ALA:HA	2.41	0.46
44:BG:22:GLU:HG3	44:BG:83:TYR:CE2	2.50	0.46
44:BG:105:ARG:HH11	45:BH:251:ARG:HD2	1.81	0.46
44:BG:243:ARG:HG2	44:BG:243:ARG:O	2.15	0.46
44:BG:256:GLN:NE2	45:BJ:397:TRP:CZ2	2.83	0.46
45:BH:131:GLN:C	45:BH:162:ARG:HD3	2.35	0.46
45:BH:326:VAL:O	45:BH:330:MET:HG2	2.16	0.46
45:BH:378:PHE:HA	45:BH:381:VAL:HG12	1.97	0.46
45:BJ:318:ARG:NH2	45:BJ:358:PRO:HG3	2.25	0.46
44:BK:88:HIS:CA	44:BK:89:PRO:HD2	2.26	0.46
44:BK:224:TYR:CD2	45:BL:323:THR:HG21	2.51	0.46
44:BK:244:PHE:HE2	44:BK:358:GLN:HG2	1.81	0.46
45:BL:137:HIS:NE2	45:BL:168:SER:OG	2.48	0.46
45:BL:342:VAL:HG13	45:BL:345:ILE:CG2	2.43	0.46
45:BN:19:LYS:O	45:BN:22:GLU:HB2	2.15	0.46
45:BN:335:ASN:HA	45:BN:338:SER:OG	2.16	0.46
45:BN:341:PHE:HD2	45:BN:348:ASN:ND2	2.11	0.46
45:CB:268:ILE:O	45:CB:300:MET:HB2	2.15	0.46
44:CC:26:LEU:CD2	44:CC:364:PRO:HD3	2.46	0.46
44:CC:71:GLU:OE1	44:CC:73:THR:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:320:ARG:HE	44:CC:360:PRO:HG3	1.75	0.46
44:CE:12:GLY:HA3	44:CE:140:SER:HB3	1.98	0.46
45:CF:139:LEU:HD23	45:CF:139:LEU:O	2.15	0.46
45:CF:257:LEU:O	45:CF:259:PRO:HD3	2.15	0.46
44:CG:413:MET:CG	44:CG:417:GLU:HG3	2.46	0.46
45:CH:150:LEU:HD23	45:CH:154:LYS:HG3	1.97	0.46
44:CI:11:GLN:HA	44:CI:14:ILE:HG22	1.98	0.46
45:CJ:170:VAL:HG11	45:CJ:377:MET:HG3	1.98	0.46
44:CK:88:HIS:CE1	44:CK:89:PRO:HD2	2.51	0.46
45:CL:68:LEU:HD11	45:CL:147:MET:HE2	1.96	0.46
45:CL:267:MET:HA	45:CL:267:MET:HE3	1.98	0.46
45:CL:267:MET:HE1	45:CL:301:CYS:HB2	1.97	0.46
45:CL:324:LYS:CB	44:CM:222:PRO:HG2	2.46	0.46
44:CM:405:VAL:HG12	44:CM:409:VAL:CG2	2.38	0.46
45:CN:169:VAL:HG22	45:CN:202:ILE:CB	2.45	0.46
44:DA:8:HIS:ND1	44:DA:66:VAL:O	2.44	0.46
44:DA:236:SER:HA	44:DA:239:THR:OG1	2.15	0.46
44:DC:191:THR:HA	44:DC:194:LEU:CG	2.45	0.46
44:DC:259:LEU:HD11	44:DC:316:SER:OG	2.16	0.46
44:DC:264:ARG:NH2	44:DC:427:ALA:HB3	2.30	0.46
44:DC:417:GLU:O	44:DC:420:GLU:HG2	2.16	0.46
45:DD:165:GLU:OE2	45:DD:250:LEU:HD22	2.16	0.46
45:DD:247:ASN:ND2	44:DE:71:GLU:HG3	2.31	0.46
45:DD:325:GLU:HA	45:DD:328:GLU:CG	2.45	0.46
44:DE:25:CYS:O	44:DE:30:ILE:HG12	2.16	0.46
44:DE:77:GLU:HA	44:DE:80:THR:OG1	2.15	0.46
44:DE:346:TRP:HB3	45:DF:391:ARG:CG	2.45	0.46
45:DF:102:ALA:HB2	45:DF:398:TYR:CD1	2.49	0.46
45:DF:310:TYR:CD1	45:DF:371:SER:HB2	2.50	0.46
45:DH:178:THR:HG22	45:DH:180:VAL:H	1.80	0.46
44:DI:23:LEU:CD2	44:DI:233:GLN:HG3	2.42	0.46
44:DI:317:MET:CE	44:DI:332:ILE:HD11	2.45	0.46
45:DJ:166:THR:O	45:DJ:199:CYS:HA	2.16	0.46
45:DJ:286:VAL:HB	45:DJ:287:PRO:HD3	1.97	0.46
44:DK:184:PRO:HG2	44:DK:398:MET:CE	2.46	0.46
44:DK:363:VAL:HG13	44:DK:363:VAL:O	2.15	0.46
44:DM:7:ILE:HD13	44:DM:66:VAL:CG1	2.45	0.46
44:DM:229:ARG:HH11	44:DM:229:ARG:HG2	1.80	0.46
44:DM:287:SER:OG	44:DM:288:VAL:N	2.48	0.46
45:DN:212:PHE:HE1	45:DN:218:THR:O	1.99	0.46
44:EA:345:ASP:HB2	44:EA:438:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:252:LYS:N	44:EC:100:ALA:HB1	2.30	0.46
45:EB:345:ILE:HG23	45:EB:345:ILE:O	2.16	0.46
44:EC:189:LEU:CD2	44:EC:421:ALA:HB2	2.41	0.46
45:ED:65:LEU:HD11	45:ED:85:PHE:CE2	2.51	0.46
45:ED:285:THR:HG23	45:ED:287:PRO:CD	2.45	0.46
44:EE:5:ILE:HG22	44:EE:6:SER:N	2.31	0.46
44:EE:324:VAL:HG23	44:EE:324:VAL:O	2.15	0.46
45:EF:8:GLN:HE21	45:EF:14:ASN:HA	1.80	0.46
45:EH:342:VAL:HG13	45:EH:345:ILE:CG2	2.42	0.46
44:EI:67:PHE:C	44:EI:68:LEU:HD22	2.35	0.46
44:EI:202:VAL:HG13	44:EI:268:MET:O	2.15	0.46
44:EI:319:TYR:HB2	44:EI:354:GLY:O	2.16	0.46
44:EK:17:GLY:HA2	44:EK:20:CYS:SG	2.55	0.46
44:EK:276:ILE:HD12	44:EK:281:ALA:C	2.36	0.46
45:EL:8:GLN:HE21	45:EL:65:LEU:HG	1.78	0.46
45:EL:293:MET:CG	45:EL:367:PHE:HB2	2.45	0.46
45:EL:317:PHE:CE2	45:EL:365:VAL:HG21	2.50	0.46
44:EM:286:LEU:HD13	44:EM:291:ILE:HG22	1.97	0.46
45:EN:83:GLN:OE1	45:EN:83:GLN:HA	2.16	0.46
44:FA:182:VAL:O	44:FA:182:VAL:HG22	2.15	0.46
44:FA:183:GLU:N	44:FA:184:PRO:CD	2.78	0.46
45:FB:167:PHE:CB	45:FB:233:MET:HE1	2.45	0.46
44:FC:11:GLN:O	44:FC:14:ILE:HB	2.16	0.46
44:FC:88:HIS:CE1	44:FC:90:GLU:HG2	2.51	0.46
44:FC:326:LYS:HE2	44:FC:326:LYS:CA	2.44	0.46
45:FD:190:HIS:O	45:FD:193:VAL:HG12	2.16	0.46
44:FE:68:LEU:HD21	44:FE:118:CYS:CB	2.44	0.46
45:FF:4:ILE:HG22	45:FF:5:VAL:N	2.31	0.46
44:FG:269:LEU:O	44:FG:269:LEU:HD12	2.15	0.46
45:FH:200:MET:HE3	45:FH:266:PHE:CB	2.39	0.46
45:FH:221:THR:HG22	45:FH:223:GLY:H	1.81	0.46
44:FI:156:ARG:HB2	44:FI:156:ARG:CZ	2.46	0.46
44:FI:391:LEU:HD23	44:FI:425:LEU:HD11	1.97	0.46
45:FJ:3:GLU:OE1	45:FJ:3:GLU:N	2.49	0.46
45:FJ:316:LEU:HB2	45:FJ:366:THR:HG22	1.96	0.46
45:FL:284:LEU:HD13	45:FL:361:LEU:HD11	1.97	0.46
45:FN:317:PHE:HD1	45:FN:365:VAL:HG13	1.81	0.46
44:GA:102:ASN:OD1	44:GA:411:GLU:HG3	2.16	0.46
44:GA:207:GLU:OE1	44:GA:304:LYS:HG2	2.15	0.46
44:GC:33:ASP:HB3	44:GC:35:GLN:NE2	2.31	0.46
44:GC:323:VAL:O	44:GC:323:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:91:VAL:HB	45:GD:115:SER:OG	2.16	0.46
44:GE:311:LYS:HE2	44:GE:342:GLN:NE2	2.31	0.46
44:GG:26:LEU:HD22	44:GG:364:PRO:HD3	1.97	0.46
44:GI:99:ALA:CB	44:GI:145:THR:HG22	2.46	0.46
45:GJ:193:VAL:HA	45:GJ:264:HIS:NE2	2.31	0.46
44:GK:332:ILE:HD12	44:GK:351:PHE:CD2	2.51	0.46
45:GL:101:TRP:NE1	45:GL:146:GLY:HA2	2.31	0.46
45:GL:257:LEU:HB3	45:GL:266:PHE:CZ	2.51	0.46
45:GL:271:ALA:HB2	45:GL:298:ASN:ND2	2.19	0.46
44:GM:32:PRO:HB3	44:GM:83:TYR:CD1	2.50	0.46
44:GM:53:PHE:O	44:GM:64:ARG:NH2	2.49	0.46
44:GM:70:LEU:HD12	44:GM:145:THR:CB	2.45	0.46
45:GN:6:HIS:CE1	45:GN:8:GLN:HE22	2.33	0.46
45:GN:254:ALA:HA	45:GN:258:ILE:CD1	2.46	0.46
45:GN:285:THR:O	45:GN:288:GLU:HB2	2.15	0.46
44:HA:191:THR:O	44:HA:194:LEU:HG	2.16	0.46
44:HA:268:MET:HA	44:HA:268:MET:HE1	1.97	0.46
44:HA:315:CYS:HA	44:HA:379:SER:HA	1.98	0.46
44:HC:203:MET:HA	44:HC:203:MET:HE2	1.97	0.46
45:HD:9:GLY:HA3	45:HD:66:MET:CE	2.46	0.46
45:HD:235:GLY:O	45:HD:316:LEU:HD23	2.15	0.46
45:HD:311:LEU:HB2	45:HD:370:ASN:O	2.15	0.46
45:HF:228:LEU:HD22	45:HF:273:LEU:CD1	2.44	0.46
45:HF:315:ALA:C	45:HF:316:LEU:HD12	2.36	0.46
44:HG:191:THR:HA	44:HG:194:LEU:CG	2.46	0.46
45:HH:149:THR:HG23	45:HH:150:LEU:N	2.31	0.46
44:HI:8:HIS:HB3	44:HI:13:GLY:CA	2.46	0.46
44:HK:62:VAL:HG21	44:IK:283:HIS:O	2.15	0.46
44:HK:386:GLU:O	44:HK:389:SER:OG	2.17	0.46
44:HK:420:GLU:O	44:HK:423:GLU:HG2	2.15	0.46
44:HK:428:LEU:O	44:HK:431:ASP:HB2	2.15	0.46
45:HL:11:GLN:HB3	48:HL:502:GDP:O1A	2.15	0.46
45:HL:164:MET:O	45:HL:197:ASP:HB2	2.16	0.46
45:HL:270:PHE:CE2	45:HL:273:LEU:HD21	2.51	0.46
45:HL:321:MET:HB3	45:HL:363:MET:HE3	1.97	0.46
44:HM:18:ASN:HD21	44:HM:67:PHE:HE2	1.64	0.46
45:HN:72:THR:HG23	45:HN:73:MET:N	2.30	0.46
45:HN:86:ARG:NH2	45:HN:87:PRO:HD2	2.31	0.46
44:IA:26:LEU:HD12	44:IA:26:LEU:O	2.14	0.46
45:IB:389:PHE:HB3	45:IB:390:ARG:HH21	1.78	0.46
44:IC:275:ILE:HG23	44:IC:368:LEU:CD1	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:138:PHE:HE1	44:IE:169:PHE:CD2	2.34	0.46
44:IE:144:GLY:O	44:IE:147:SER:N	2.48	0.46
45:IF:24:ILE:HD12	45:IF:24:ILE:H	1.81	0.46
44:IG:88:HIS:CD2	44:IG:90:GLU:HG2	2.50	0.46
44:IG:389:SER:HA	44:IG:429:GLU:OE2	2.16	0.46
45:IH:101:TRP:CE3	45:IH:187:LEU:HD13	2.51	0.46
45:IH:274:THR:HB	45:IH:282:ARG:CZ	2.46	0.46
45:IH:318:ARG:CD	45:IH:358:PRO:HD3	2.46	0.46
45:IJ:61:PRO:HG2	45:IJ:85:PHE:HD1	1.81	0.46
45:IJ:295:ASP:OD1	45:IJ:297:LYS:HG2	2.15	0.46
44:IK:437:ILE:HG13	44:IK:437:ILE:O	2.16	0.46
44:IM:81:GLY:O	44:IM:84:ARG:N	2.47	0.46
44:IM:166:LYS:C	44:IM:167:LEU:HD12	2.35	0.46
44:IM:174:SER:HB2	44:IM:177:VAL:O	2.15	0.46
45:IN:163:ILE:HD11	45:IN:250:LEU:HD12	1.98	0.46
44:JA:79:ARG:HG2	44:JA:92:LEU:HD22	1.97	0.46
44:JA:120:ASP:HA	44:JA:123:ARG:HG2	1.95	0.46
44:JA:154:LEU:CD2	44:JA:166:LYS:HD2	2.42	0.46
44:JA:202:VAL:HG22	44:JA:268:MET:SD	2.56	0.46
44:JC:60:LYS:HZ1	44:KC:283:HIS:CD2	2.33	0.46
44:JE:52:PHE:HZ	44:JE:239:THR:HG21	1.81	0.46
45:JF:105:HIS:NE2	45:JF:150:LEU:HD13	2.30	0.46
45:JF:263:LEU:HB3	45:JF:422:TYR:CE1	2.51	0.46
45:JH:292:GLN:HG3	45:JH:298:ASN:HD22	1.81	0.46
45:JH:305:PRO:HB2	45:JH:310:TYR:OH	2.15	0.46
44:JI:224:TYR:O	44:JI:228:ASN:ND2	2.49	0.46
44:JI:390:ARG:HG3	44:JI:391:LEU:N	2.31	0.46
44:JK:101:ASN:HA	44:JK:144:GLY:H	1.80	0.46
45:JL:141:GLY:HA3	48:JL:501:GDP:O3A	2.16	0.46
45:JL:167:PHE:CZ	45:JL:233:MET:HB2	2.51	0.46
44:JM:30:ILE:HG12	44:JM:61:HIS:CD2	2.51	0.46
44:JM:176:GLN:HG2	44:JM:177:VAL:N	2.31	0.46
44:JM:207:GLU:O	44:JM:210:TYR:HB2	2.15	0.46
44:JM:220:GLU:O	45:JN:324:LYS:HD3	2.15	0.46
44:JM:242:LEU:CD1	44:JM:252:ILE:HD11	2.45	0.46
45:JN:250:LEU:O	45:JN:253:LEU:N	2.49	0.46
44:KA:9:VAL:CG2	44:KA:146:GLY:HA2	2.44	0.46
44:KA:224:TYR:HE2	45:KB:246:LEU:HD11	1.81	0.46
44:KA:296:PHE:HE1	44:KA:377:MET:CE	2.28	0.46
44:KA:329:ASN:ND2	45:KD:175:VAL:HG12	2.30	0.46
45:KB:325:GLU:O	45:KB:328:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:334:GLN:HA	45:KF:341:PHE:CE2	2.51	0.46
45:KF:336:LYS:HA	45:KF:336:LYS:CE	2.41	0.46
44:KG:123:ARG:HG2	44:KG:123:ARG:NH1	2.29	0.46
45:KH:49:VAL:HG11	45:KH:241:ARG:CG	2.44	0.46
45:KH:342:VAL:HG22	45:KH:343:GLU:N	2.31	0.46
44:KI:188:ILE:HD12	44:KI:425:LEU:CD1	2.45	0.46
45:KJ:181:GLU:HB3	45:KJ:182:PRO:HD3	1.97	0.46
44:KK:69:ASP:OD1	44:KK:70:LEU:N	2.48	0.46
44:KK:101:ASN:HD21	45:KL:252:LYS:HE2	1.78	0.46
44:KM:55:GLU:OE2	44:KM:59:GLY:N	2.42	0.46
44:KM:335:ILE:HD12	44:KM:335:ILE:H	1.81	0.46
45:KN:267:MET:HE3	45:KN:301:CYS:HB2	1.98	0.46
44:LE:188:ILE:HD12	44:LE:425:LEU:HD11	1.98	0.46
44:LE:188:ILE:CG2	44:LE:425:LEU:HD11	2.37	0.46
44:LE:213:CYS:HA	44:LE:217:LEU:HD13	1.97	0.46
45:LF:309:ARG:HD3	45:LF:342:VAL:HG22	1.96	0.46
44:LG:373:ARG:HD2	44:LG:373:ARG:N	2.30	0.46
45:LH:44:LEU:HA	45:LH:47:ILE:HB	1.97	0.46
44:LI:145:THR:HG22	46:LI:501:GTP:O3G	2.16	0.46
45:LJ:167:PHE:CE2	45:LJ:233:MET:HG2	2.50	0.46
45:LJ:175:VAL:HG13	45:LJ:205:GLU:OE2	2.16	0.46
45:LN:127:CYS:SG	45:LN:130:LEU:HB2	2.56	0.46
45:LN:173:PRO:HD2	45:LN:174:LYS:NZ	2.30	0.46
45:MB:357:PRO:HB2	45:MB:358:PRO:HD2	1.97	0.46
45:MF:28:HIS:HB3	45:MF:47:ILE:HD12	1.98	0.46
45:MF:45:GLU:C	45:MF:46:ARG:HD2	2.36	0.46
45:MF:374:ILE:HD11	45:MF:422:TYR:CE1	2.51	0.46
44:MG:110:ILE:HD12	44:MG:110:ILE:N	2.29	0.46
44:MI:13:GLY:CA	44:MI:16:VAL:HG12	2.46	0.46
44:MI:315:CYS:SG	44:MI:317:MET:HG3	2.56	0.46
44:MK:27:GLU:CD	44:MK:243:ARG:HH12	2.19	0.46
44:MK:241:SER:OG	44:MK:250:VAL:O	2.29	0.46
45:ML:65:LEU:HD21	45:ML:85:PHE:CE2	2.51	0.46
45:ML:413:SER:O	45:ML:417:ASP:N	2.38	0.46
44:MM:205:ASP:OD2	44:MM:303:ALA:HB1	2.16	0.46
44:MM:276:ILE:HG12	44:MM:281:ALA:HB2	1.98	0.46
44:MM:321:GLY:HA3	44:MM:372:MET:O	2.16	0.46
44:MM:332:ILE:HG22	44:MM:336:LYS:HE3	1.98	0.46
45:MN:206:ALA:O	45:MN:209:ASP:HB3	2.15	0.46
45:NB:12:CYS:SG	45:NB:169:VAL:HG21	2.56	0.46
45:NB:25:SER:O	45:NB:29:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:270:SER:HA	44:NC:377:MET:O	2.16	0.46
44:NE:107:HIS:O	44:NE:108:TYR:HD1	1.99	0.46
45:NF:166:THR:HG1	45:NF:199:CYS:CB	2.29	0.46
45:NF:178:THR:O	45:NF:181:GLU:N	2.40	0.46
44:NG:53:PHE:O	44:NG:64:ARG:NH2	2.48	0.46
45:NH:139:LEU:HG	45:NH:188:SER:CB	2.45	0.46
44:NI:258:ASN:HA	45:NL:179:VAL:CG2	2.46	0.46
44:NI:288:VAL:O	44:NI:291:ILE:HG12	2.16	0.46
44:NI:346:TRP:CZ2	44:NI:435:VAL:HG13	2.51	0.46
45:NJ:94:GLN:NE2	45:NJ:94:GLN:O	2.49	0.46
45:NJ:258:ILE:HD12	45:NJ:258:ILE:H	1.80	0.46
45:NJ:267:MET:SD	45:NJ:301:CYS:HB2	2.56	0.46
45:NJ:343:GLU:OE2	45:NJ:429:THR:HG23	2.15	0.46
44:NK:171:ILE:HD12	44:NK:171:ILE:N	2.30	0.46
45:NL:270:PHE:CD2	45:NL:273:LEU:HD21	2.51	0.46
44:NM:145:THR:HG23	44:NM:146:GLY:N	2.31	0.46
44:NM:191:THR:HA	44:NM:194:LEU:HG	1.97	0.46
44:NM:203:MET:N	44:NM:268:MET:O	2.40	0.46
44:NM:241:SER:HG	44:NM:250:VAL:HG13	1.81	0.46
44:OA:276:ILE:HG13	44:OA:280:LYS:CG	2.44	0.46
45:OB:51:TYR:C	45:OB:62:ARG:HH21	2.18	0.46
45:OB:135:ILE:N	45:OB:165:GLU:O	2.46	0.46
45:OB:154:LYS:O	45:OB:158:GLU:HG3	2.15	0.46
45:OB:358:PRO:CG	45:OB:364:ALA:HB2	2.45	0.46
45:OD:9:GLY:HA2	45:OD:66:MET:O	2.16	0.46
44:OE:102:ASN:CG	44:OE:105:ARG:HG3	2.36	0.46
44:OE:183:GLU:HA	44:OE:186:ASN:ND2	2.31	0.46
44:OE:217:LEU:HB3	44:OE:219:ILE:CG1	2.44	0.46
45:OF:30:ILE:HD11	45:OF:47:ILE:HD11	1.97	0.46
45:OH:322:SER:O	45:OH:325:GLU:HG2	2.16	0.46
45:OH:323:THR:O	45:OH:326:VAL:HB	2.16	0.46
44:OI:87:PHE:HB3	44:OI:91:GLN:NE2	2.31	0.46
45:OJ:317:PHE:HB3	45:OJ:321:MET:SD	2.56	0.46
44:OK:181:VAL:HG12	45:OL:256:ASN:CG	2.35	0.46
44:OK:254:GLU:HG3	45:ON:98:GLY:C	2.36	0.46
45:OL:97:ALA:HA	45:OL:103:LYS:HZ2	1.81	0.46
45:OL:180:VAL:O	45:OL:180:VAL:CG1	2.63	0.46
45:OL:290:THR:HA	45:OL:293:MET:CG	2.45	0.46
45:OL:290:THR:HA	45:OL:293:MET:SD	2.55	0.46
44:OM:152:LEU:O	44:OM:156:ARG:HG2	2.16	0.46
44:OM:180:ALA:HB3	44:OM:183:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:221:THR:HG22	45:ON:222:TYR:N	2.31	0.46
44:PA:5:ILE:HG13	44:PA:64:ARG:NH1	2.30	0.46
45:PB:257:LEU:HA	45:PB:312:THR:HG21	1.97	0.46
45:PD:270:PHE:CG	45:PD:271:ALA:N	2.77	0.46
45:PD:308:GLY:HA3	45:PD:372:THR:OG1	2.16	0.46
44:PE:335:ILE:HG21	44:PE:351:PHE:CZ	2.50	0.46
44:PG:328:VAL:O	44:PG:331:SER:HB2	2.16	0.46
44:PG:355:ILE:HD13	45:PJ:222:TYR:CE2	2.51	0.46
44:PG:404:PHE:CD2	45:PH:259:PRO:HA	2.51	0.46
44:PI:256:GLN:HG3	45:PL:397:TRP:CH2	2.51	0.46
45:PJ:86:ARG:CZ	45:QH:281:TYR:HB2	2.46	0.46
45:PJ:303:ALA:N	45:PJ:377:MET:HE1	2.31	0.46
45:PJ:378:PHE:HB3	45:PJ:419:VAL:CG2	2.44	0.46
44:PK:172:TYR:HD2	44:PK:203:MET:SD	2.38	0.46
44:PK:312:TYR:HB3	44:PK:343:PHE:CD1	2.51	0.46
45:PL:155:VAL:HG11	45:PL:164:MET:HE3	1.97	0.46
45:PL:242:PHE:HB3	45:PL:243:PRO:CD	2.46	0.46
44:PM:314:ALA:H	44:PM:380:ASN:HB3	1.81	0.46
45:PN:86:ARG:NH1	45:QL:278:SER:OG	2.49	0.46
45:PN:264:HIS:CE1	45:PN:265:PHE:HE1	2.34	0.46
45:PN:310:TYR:HA	45:PN:371:SER:CB	2.44	0.46
45:PN:317:PHE:HB2	45:PN:352:SER:O	2.16	0.46
44:QA:31:GLN:HE22	44:QA:36:MET:C	2.19	0.46
44:QA:33:ASP:O	44:QA:60:LYS:HD2	2.15	0.46
44:QA:34:GLY:HA3	44:QA:86:LEU:HD21	1.96	0.46
44:QA:226:ASN:ND2	44:QA:367:ASP:OD2	2.48	0.46
44:QA:318:MET:HE3	44:QA:318:MET:HA	1.96	0.46
45:QB:22:GLU:O	45:QB:25:SER:OG	2.28	0.46
44:QC:203:MET:O	44:QC:303:ALA:HB2	2.16	0.46
45:QD:263:LEU:HG	45:QD:422:TYR:CE1	2.51	0.46
44:QE:318:MET:HA	44:QE:318:MET:HE2	1.97	0.46
45:QF:86:ARG:O	45:QF:89:ASN:HB2	2.16	0.46
45:QF:374:ILE:HG23	45:QF:377:MET:HE2	1.97	0.46
44:QG:101:ASN:HA	44:QG:144:GLY:CA	2.40	0.46
45:QH:31:ASP:HB2	45:QH:35:THR:HG22	1.96	0.46
45:QJ:49:VAL:HG11	45:QJ:241:ARG:HE	1.80	0.46
45:QJ:165:GLU:OE2	45:QJ:250:LEU:HD13	2.16	0.46
45:QJ:371:SER:O	45:QJ:374:ILE:HG12	2.16	0.46
44:QK:107:HIS:ND1	44:QK:107:HIS:O	2.49	0.46
44:QK:278:ALA:HA	44:QK:369:ALA:CB	2.40	0.46
44:QK:363:VAL:CG2	44:QK:364:PRO:HD2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:311:LYS:O	44:QM:382:THR:HG23	2.14	0.46
44:QM:324:VAL:O	44:QM:327:ASP:HB2	2.14	0.46
45:QN:374:ILE:HD12	45:QN:378:PHE:HZ	1.80	0.46
45:QN:395:LEU:HG	45:QN:399:THR:HG23	1.97	0.46
44:RA:287:SER:O	44:RA:291:ILE:HG23	2.16	0.46
45:RB:202:ILE:HD13	45:RB:301:CYS:SG	2.55	0.46
45:RD:12:CYS:O	45:RD:15:GLN:HG2	2.16	0.46
44:RE:233:GLN:HA	44:RE:233:GLN:OE1	2.16	0.46
45:RF:66:MET:CE	45:RF:151:LEU:HD13	2.45	0.46
45:RF:237:THR:HG23	45:RF:241:ARG:HH21	1.81	0.46
44:RI:108:TYR:HD2	44:RI:413:MET:HE3	1.80	0.46
44:RI:168:GLY:O	44:RI:201:ALA:HA	2.16	0.46
44:RK:122:ILE:HD12	44:RK:122:ILE:H	1.80	0.46
44:RK:217:LEU:CD2	44:RK:367:ASP:HB3	2.36	0.46
44:RK:305:CYS:O	44:RK:307:PRO:HD3	2.15	0.46
44:SA:8:HIS:CE1	44:SA:138:PHE:HB2	2.51	0.46
45:SB:22:GLU:HA	45:SB:25:SER:OG	2.15	0.46
45:SB:252:LYS:HA	44:SC:100:ALA:CB	2.37	0.46
44:SC:14:ILE:HD11	44:SC:75:ILE:HD11	1.98	0.46
45:SD:256:ASN:OD1	44:SE:181:VAL:HG12	2.16	0.46
44:SE:71:GLU:CD	44:SE:73:THR:H	2.19	0.46
44:SE:231:ILE:O	44:SE:234:VAL:HB	2.16	0.46
44:SE:348:PRO:CG	45:SF:384:GLN:HB3	2.45	0.46
45:SF:76:VAL:HG12	45:SF:76:VAL:O	2.15	0.46
45:SF:258:ILE:HG23	45:SF:263:LEU:O	2.15	0.46
45:SF:271:ALA:HB1	45:SF:292:GLN:CD	2.36	0.46
44:SG:156:ARG:HG2	44:SG:160:ASP:OD1	2.16	0.46
44:SG:276:ILE:HG12	44:SG:281:ALA:CB	2.45	0.46
45:SH:42:LEU:CA	45:SH:45:GLU:HG3	2.34	0.46
45:SH:86:ARG:HG3	45:SH:86:ARG:HH11	1.80	0.46
45:SH:266:PHE:CE1	45:SH:370:ASN:HB2	2.50	0.46
44:SI:14:ILE:CD1	44:SI:69:ASP:HB2	2.35	0.46
44:SI:182:VAL:HG22	44:SI:182:VAL:O	2.16	0.46
45:SJ:34:GLY:O	45:SJ:58:ARG:HA	2.16	0.46
45:SJ:114:ASP:OD1	45:SJ:115:SER:N	2.46	0.46
45:SJ:257:LEU:CA	45:SJ:312:THR:HG21	2.44	0.46
44:SK:324:VAL:CG1	44:SK:326:LYS:HZ2	2.28	0.46
44:SK:372:MET:O	44:SK:372:MET:SD	2.72	0.46
45:SL:42:LEU:HA	45:SL:45:GLU:HG3	1.98	0.46
45:SL:122:LYS:HE2	45:TL:291:GLN:CD	2.36	0.46
45:SL:237:THR:HG22	45:SL:250:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:91:GLN:OE1	44:SM:91:GLN:HA	2.16	0.46
45:SN:25:SER:OG	45:SN:51:TYR:OH	2.17	0.46
45:SN:211:CYS:HB3	45:SN:217:LEU:CD2	2.45	0.46
44:TA:191:THR:O	44:TA:195:LEU:N	2.48	0.46
44:TA:258:ASN:HD21	45:TB:178:THR:CG2	2.22	0.46
44:TC:103:PHE:HB3	44:TC:408:TYR:HE2	1.80	0.46
44:TC:248:LEU:HB3	44:TC:355:ILE:HD11	1.98	0.46
44:TC:288:VAL:HA	44:TC:291:ILE:CG1	2.44	0.46
44:TC:319:TYR:CD1	44:TC:375:VAL:HA	2.51	0.46
44:TE:70:LEU:HD11	44:TE:149:LEU:HD23	1.98	0.46
44:TE:188:ILE:HG13	44:TE:395:PHE:CB	2.46	0.46
44:TE:213:CYS:HA	44:TE:217:LEU:HB2	1.96	0.46
44:TE:282:TYR:HE1	44:TE:371:VAL:HG12	1.80	0.46
44:TE:346:TRP:CD1	45:TF:391:ARG:HG3	2.51	0.46
45:TH:200:MET:HG2	45:TH:266:PHE:HB2	1.97	0.46
45:TH:342:VAL:O	45:TH:345:ILE:HG22	2.16	0.46
44:TI:152:LEU:O	44:TI:156:ARG:N	2.37	0.46
44:TK:226:ASN:HD22	44:TK:229:ARG:HH22	1.64	0.46
44:TK:301:MET:HG3	44:TK:307:PRO:HD3	1.97	0.46
45:TL:327:ASP:O	45:TL:330:MET:HB2	2.15	0.46
44:TM:25:CYS:SG	44:TM:30:ILE:HG21	2.56	0.46
44:TM:53:PHE:HD1	44:TM:62:VAL:O	1.99	0.46
44:TM:268:MET:HE2	44:TM:269:LEU:N	2.13	0.46
45:TN:105:HIS:HD1	45:TN:106:TYR:HD1	1.64	0.46
44:UA:8:HIS:CD2	44:UA:17:GLY:HA3	2.51	0.46
44:UA:294:SER:O	44:UA:297:GLU:HB2	2.16	0.46
44:UC:256:GLN:O	44:UC:260:VAL:HG22	2.15	0.46
45:UD:199:CYS:O	45:UD:266:PHE:HB2	2.16	0.46
44:UE:117:LEU:HD12	44:UE:117:LEU:C	2.36	0.46
45:UF:22:GLU:O	45:UF:25:SER:HB2	2.16	0.46
45:UF:300:MET:HG3	45:UF:300:MET:O	2.15	0.46
44:UG:346:TRP:CE3	44:UG:347:CYS:HB2	2.51	0.46
45:UH:221:THR:HG22	45:UH:224:ASP:CG	2.36	0.46
45:UH:245:GLN:HA	44:UI:15:GLN:OE1	2.16	0.46
44:UI:398:MET:CE	44:UI:398:MET:HA	2.46	0.46
44:UI:439:THR:HB	45:UJ:391:ARG:HD3	1.98	0.46
45:UJ:61:PRO:CG	45:UJ:84:LEU:HD23	2.45	0.46
44:UK:23:LEU:HD21	44:UK:233:GLN:OE1	2.16	0.46
44:UK:105:ARG:HG2	44:UK:411:GLU:OE1	2.16	0.46
44:UK:200:VAL:HG23	44:UK:256:GLN:HB2	1.96	0.46
44:UK:306:ASP:OD1	44:UK:307:PRO:CD	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:335:ILE:HG23	44:UK:341:ILE:CD1	2.46	0.46
45:UL:2:ARG:HH22	44:UM:73:THR:CG2	2.28	0.46
45:UL:68:LEU:O	45:UL:96:GLY:HA2	2.15	0.46
45:UL:83:GLN:OE1	45:UL:83:GLN:HA	2.15	0.46
45:UL:322:SER:HB3	44:UM:221:ARG:CZ	2.46	0.46
44:UM:6:SER:O	44:UM:65:ALA:HA	2.15	0.46
44:UM:151:SER:HB2	44:UM:193:SER:OG	2.16	0.46
45:UN:25:SER:HB3	45:UN:30:ILE:O	2.15	0.46
45:UN:100:ASN:HD22	45:UN:103:LYS:HB3	1.79	0.46
44:VA:88:HIS:O	44:VA:91:GLN:HG2	2.15	0.46
44:VA:115:VAL:HG22	44:VA:156:ARG:HD2	1.98	0.46
45:VB:249:ASP:OD1	45:VB:252:LYS:HB2	2.15	0.46
45:VD:109:GLY:O	45:VD:113:ILE:N	2.37	0.46
45:VF:3:GLU:CG	45:VF:127:CYS:HB2	2.45	0.46
45:VF:238:CYS:SG	45:VF:316:LEU:HD23	2.56	0.46
45:VH:264:HIS:O	45:VH:265:PHE:HD1	1.99	0.46
44:VI:216:ASN:HB3	44:VI:275:ILE:O	2.16	0.46
44:VI:248:LEU:HB3	44:VI:355:ILE:HD11	1.98	0.46
45:VJ:242:PHE:HD2	45:VJ:356:ILE:HB	1.80	0.46
45:VJ:309:ARG:HA	45:VJ:340:TYR:HB3	1.96	0.46
44:VK:141:VAL:HG11	44:VK:172:TYR:CD1	2.51	0.46
44:VK:210:TYR:CD1	44:VK:227:LEU:HD21	2.51	0.46
44:VK:267:PHE:CD2	44:VK:388:PHE:HZ	2.34	0.46
45:VL:101:TRP:CZ3	45:VL:187:LEU:HD13	2.50	0.46
45:VL:411:ALA:O	45:VL:414:ASN:N	2.48	0.46
44:VM:27:GLU:CB	44:VM:361:THR:HG21	2.39	0.46
44:VM:89:PRO:CG	44:WM:280:LYS:HG3	2.42	0.46
44:VM:121:ARG:HH12	44:VM:124:LYS:HD2	1.80	0.46
44:VM:221:ARG:HH12	45:VN:325:GLU:HB2	1.80	0.46
45:VN:167:PHE:CZ	45:VN:233:MET:HE3	2.50	0.46
45:VN:189:VAL:O	45:VN:193:VAL:HG12	2.16	0.46
45:VN:299:MET:HG3	45:VN:305:PRO:CG	2.46	0.46
44:WC:221:ARG:CD	45:WD:322:SER:HB3	2.46	0.46
45:WD:343:GLU:OE2	45:WD:429:THR:HA	2.14	0.46
45:WF:4:ILE:HD13	45:WF:250:LEU:CD1	2.46	0.46
45:WF:286:VAL:CB	45:WF:287:PRO:CD	2.94	0.46
45:WH:139:LEU:CA	45:WH:145:SER:HB3	2.39	0.46
45:WJ:130:LEU:HG	45:WJ:162:ARG:CD	2.45	0.46
45:WJ:345:ILE:HG12	45:WJ:348:ASN:HB3	1.97	0.46
44:WK:4:VAL:HG21	44:WK:52:PHE:CE1	2.51	0.46
44:WK:237:SER:HA	44:WK:320:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:404:PHE:CE1	45:WL:259:PRO:HA	2.50	0.46
45:WL:187:LEU:HD11	45:WL:408:PHE:CE1	2.51	0.46
44:WM:157:LEU:HD11	44:WM:166:LYS:HE2	1.98	0.46
44:WM:204:LEU:HD22	44:WM:231:ILE:CD1	2.46	0.46
44:WM:331:SER:O	44:WM:334:THR:HB	2.16	0.46
3:0B:181:PRO:HB3	44:JI:84:ARG:HH22	1.80	0.46
5:0D:213:PHE:HB2	35:7R:433:GLN:HG2	1.97	0.46
7:0F:209:LYS:CD	44:FC:279:GLU:HG3	2.45	0.46
8:0G:38:GLU:OE1	45:JL:359:LYS:HE2	2.16	0.46
17:1B:1:MET:CG	45:LD:359:LYS:HB2	2.41	0.46
8:1G:100:GLU:CD	45:JB:320:ARG:HH12	2.18	0.46
26:1R:79:ASN:OD1	44:MC:31:GLN:HG3	2.15	0.46
5:2D:224:ARG:CZ	35:5R:586:TYR:HA	2.45	0.46
31:2H:193:LEU:HD21	45:AD:361:LEU:O	2.15	0.46
32:2I:77:GLY:HA3	44:GE:338:LYS:HD2	1.96	0.46
32:2I:97:LYS:HA	45:GF:337:ASN:OD1	2.15	0.46
23:2M:80:PHE:HB2	44:IG:39:ASP:HB2	1.97	0.46
25:2P:380:ARG:O	44:TM:370:LYS:HE3	2.14	0.46
35:4R:174:PHE:CE2	45:AH:80:PRO:HA	2.50	0.46
37:5A:115:ASP:OD1	44:NA:370:LYS:NZ	2.43	0.46
37:5D:19:ARG:CA	45:KN:415:MET:HG3	2.43	0.46
37:5D:37:ASP:HB2	44:KK:263:PRO:HG2	1.97	0.46
38:5H:64:ALA:O	38:5H:65:GLU:HB3	2.14	0.46
39:5K:91:SER:HA	44:JM:430:LYS:NZ	2.30	0.46
11:5Q:79:ILE:O	11:5Q:80:ILE:HD13	2.16	0.46
35:5R:71:LYS:HB2	35:5R:71:LYS:NZ	2.29	0.46
36:5S:192:MET:HE3	45:AH:421:GLU:HG3	1.98	0.46
35:6R:232:ASN:HD21	44:BM:1:MET:HE3	1.79	0.46
35:6R:255:VAL:HG23	44:CM:41:THR:OG1	2.15	0.46
35:6R:318:TYR:CB	35:6R:321:MET:HB2	2.44	0.46
35:7R:286:GLU:OE2	35:7R:288:LYS:HE3	2.16	0.46
35:7R:430:LEU:HD13	35:7R:503:PHE:CD1	2.51	0.46
35:7R:462:ASN:OD1	45:FB:218:THR:N	2.48	0.46
42:8N:347:UNK:C	42:8N:351:UNK:HA	2.46	0.46
44:AA:83:TYR:O	44:AA:86:LEU:HB3	2.15	0.46
44:AA:179:THR:O	45:AB:350:LYS:HA	2.16	0.46
44:AA:262:TYR:HB3	44:AA:263:PRO:HD2	1.97	0.46
44:AA:263:PRO:HB3	45:AD:396:HIS:CE1	2.51	0.46
44:AA:326:LYS:HE2	45:AD:219:THR:HG22	1.98	0.46
45:AB:52:ASN:HD21	45:AB:62:ARG:CB	2.28	0.46
45:AB:65:LEU:HD21	45:AB:85:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:202:ILE:HG23	45:AB:207:LEU:HD21	1.95	0.46
44:AC:49:PHE:CE2	44:AC:55:GLU:HG2	2.51	0.46
44:AC:401:LYS:HE2	44:AC:401:LYS:HA	1.97	0.46
45:AF:7:ILE:HG22	45:AF:135:ILE:CD1	2.46	0.46
45:AF:352:SER:C	45:AF:353:ILE:HD12	2.36	0.46
44:AG:174:SER:HB3	44:AG:207:GLU:HB2	1.97	0.46
44:AG:183:GLU:HG2	44:AG:184:PRO:HD3	1.97	0.46
45:AH:60:VAL:HG13	45:AH:60:VAL:O	2.16	0.46
45:AH:293:MET:CE	45:AH:367:PHE:HD1	2.28	0.46
44:AI:24:PHE:CE1	44:AI:236:SER:HB2	2.48	0.46
44:AK:62:VAL:HG13	44:AK:62:VAL:O	2.15	0.46
44:AK:102:ASN:HB3	44:AK:105:ARG:HB2	1.98	0.46
44:AK:224:TYR:CE2	45:AL:246:LEU:HD11	2.50	0.46
44:AK:238:LEU:HD21	44:AK:255:PHE:CE2	2.51	0.46
45:AL:156:ARG:O	45:AL:156:ARG:HD3	2.16	0.46
45:AN:248:SER:HA	45:AN:252:LYS:HD3	1.98	0.46
44:BA:53:PHE:O	44:BA:64:ARG:NE	2.47	0.46
44:BA:244:PHE:CB	44:BA:356:ASN:HD21	2.22	0.46
44:BA:349:THR:O	45:BD:179:VAL:HG12	2.15	0.46
44:BC:55:GLU:CG	44:BC:57:GLY:H	2.28	0.46
44:BC:145:THR:HG23	46:BC:501:GTP:PG	2.56	0.46
45:BD:91:VAL:HG21	45:BD:116:VAL:HG23	1.96	0.46
45:BD:169:VAL:HG13	45:BD:169:VAL:O	2.14	0.46
45:BD:286:VAL:HB	45:BD:287:PRO:HD3	1.97	0.46
45:BD:324:LYS:O	45:BD:328:GLU:HG2	2.15	0.46
44:BG:236:SER:O	44:BG:240:ALA:HB2	2.16	0.46
45:BH:8:GLN:O	45:BH:8:GLN:HG2	2.16	0.46
44:BI:64:ARG:HH12	44:BI:128:ASN:HD22	1.63	0.46
44:BI:181:VAL:HG12	45:BJ:256:ASN:CB	2.46	0.46
45:BJ:131:GLN:O	45:BJ:163:ILE:HG22	2.15	0.46
44:BK:5:ILE:HB	44:BK:135:PHE:CD1	2.51	0.46
44:BK:222:PRO:HG2	45:BL:324:LYS:HD3	1.98	0.46
44:BK:313:MET:CE	44:BK:435:VAL:HG11	2.43	0.46
45:BL:20:PHE:HE1	45:BL:233:MET:HB3	1.79	0.46
45:BL:22:GLU:HA	45:BL:81:PHE:CE2	2.50	0.46
45:BL:378:PHE:O	45:BL:381:VAL:HG12	2.16	0.46
44:BM:18:ASN:O	44:BM:22:GLU:OE1	2.33	0.46
45:BN:9:GLY:HA2	45:BN:66:MET:O	2.16	0.46
45:BN:36:TYR:CZ	45:BN:38:GLY:HA3	2.51	0.46
44:CA:19:ALA:HA	44:CA:22:GLU:OE1	2.15	0.46
44:CA:183:GLU:N	44:CA:184:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:8:GLN:O	45:CB:64:ILE:O	2.34	0.46
44:CC:319:TYR:CZ	44:CC:328:VAL:HG23	2.50	0.46
44:CE:132:LEU:HD11	44:CE:164:LYS:NZ	2.31	0.46
45:CF:295:ASP:OD1	45:CF:297:LYS:HG2	2.15	0.46
44:CG:323:VAL:CG1	44:CG:355:ILE:HG23	2.45	0.46
44:CG:363:VAL:HG23	44:CG:364:PRO:HD2	1.97	0.46
45:CH:105:HIS:ND1	45:CH:150:LEU:HD12	2.31	0.46
45:CH:268:ILE:HA	45:CH:367:PHE:O	2.15	0.46
45:CH:310:TYR:HA	45:CH:371:SER:HA	1.98	0.46
45:CJ:8:GLN:NE2	45:CJ:65:LEU:HG	2.30	0.46
45:CJ:21:TRP:CH2	45:CJ:61:PRO:HB3	2.51	0.46
44:CK:138:PHE:CD2	44:CK:169:PHE:HB2	2.51	0.46
44:CK:304:LYS:HE2	44:CK:387:VAL:HG21	1.96	0.46
45:CL:15:GLN:HA	45:CL:18:ALA:HB3	1.97	0.46
45:CL:346:PRO:HG2	44:CM:394:LYS:HD2	1.97	0.46
44:CM:67:PHE:O	44:CM:68:LEU:HD22	2.16	0.46
45:CN:53:GLU:CD	45:CN:59:TYR:HE1	2.19	0.46
45:CN:74:ASP:HA	45:CN:77:ARG:HH21	1.81	0.46
45:DB:187:LEU:HD21	45:DB:408:PHE:CE1	2.51	0.46
44:DC:326:LYS:HD3	45:DD:212:PHE:HZ	1.80	0.46
44:DE:12:GLY:O	44:DE:16:VAL:HG13	2.16	0.46
45:DF:3:GLU:CG	45:DF:127:CYS:HB2	2.45	0.46
45:DF:99:ASN:C	45:DF:142:GLY:HA3	2.35	0.46
45:DF:325:GLU:HA	45:DF:328:GLU:OE2	2.16	0.46
45:DF:342:VAL:HG12	45:DF:343:GLU:N	2.29	0.46
44:DG:219:ILE:HD11	44:DG:367:ASP:OD1	2.16	0.46
44:DG:264:ARG:NH2	44:DG:431:ASP:HA	2.28	0.46
45:DH:58:ARG:NH1	45:EH:280:GLN:HE22	2.13	0.46
45:DH:242:PHE:CD2	45:DH:356:ILE:HB	2.51	0.46
45:DH:247:ASN:HD22	44:DI:73:THR:HB	1.81	0.46
44:DI:11:GLN:CG	44:DI:74:VAL:HG11	2.29	0.46
44:DI:14:ILE:HD13	44:DI:74:VAL:CG2	2.45	0.46
44:DI:137:VAL:O	44:DI:168:GLY:HA2	2.16	0.46
44:DI:308:ARG:HD3	44:DI:340:THR:HG23	1.97	0.46
45:DJ:289:LEU:HD22	45:DJ:365:VAL:HG23	1.98	0.46
45:DL:382:ALA:HA	45:DL:385:PHE:HB3	1.98	0.46
44:DM:17:GLY:HA2	44:DM:20:CYS:SG	2.56	0.46
44:DM:89:PRO:HG3	44:EM:280:LYS:HE3	1.98	0.46
44:DM:151:SER:HG	44:DM:152:LEU:N	2.13	0.46
44:DM:307:PRO:HD2	44:DM:308:ARG:HH11	1.80	0.46
44:DM:320:ARG:HB3	44:DM:356:ASN:CB	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:320:ARG:HB2	44:DM:358:GLN:O	2.16	0.46
44:EE:111:GLY:HA2	44:EE:149:LEU:HD11	1.98	0.46
44:EE:229:ARG:NH1	44:EE:229:ARG:HG2	2.31	0.46
45:EF:44:LEU:CD2	45:EF:47:ILE:HD12	2.46	0.46
44:EG:259:LEU:CD2	44:EG:268:MET:HE3	2.45	0.46
44:EG:326:LYS:HG2	45:EH:212:PHE:CZ	2.50	0.46
44:EG:437:ILE:HG13	44:EG:437:ILE:O	2.15	0.46
45:EH:127:CYS:SG	45:EH:130:LEU:HG	2.55	0.46
45:EH:166:THR:HB	45:EH:200:MET:SD	2.55	0.46
45:EH:265:PHE:HB2	45:EH:374:ILE:CD1	2.46	0.46
44:EI:144:GLY:O	44:EI:147:SER:N	2.49	0.46
45:EJ:178:THR:HG22	45:EJ:180:VAL:HG12	1.96	0.46
45:EJ:193:VAL:HG23	45:EJ:264:HIS:NE2	2.31	0.46
45:EL:282:ARG:HH22	45:EL:288:GLU:HB3	1.81	0.46
45:EL:288:GLU:HA	45:EL:291:GLN:HG2	1.98	0.46
44:EM:67:PHE:C	44:EM:68:LEU:HD12	2.36	0.46
45:EN:18:ALA:HB2	45:EN:76:VAL:CG2	2.46	0.46
45:EN:135:ILE:HB	45:EN:166:THR:HA	1.97	0.46
45:EN:242:PHE:CD1	45:EN:356:ILE:HG21	2.51	0.46
45:EN:300:MET:HE3	45:EN:300:MET:HB3	1.75	0.46
45:EN:309:ARG:NH1	45:EN:343:GLU:H	2.14	0.46
45:EN:311:LEU:HD23	45:EN:342:VAL:HB	1.98	0.46
44:FA:188:ILE:HD12	44:FA:425:LEU:HD12	1.96	0.46
44:FA:248:LEU:CD1	48:FD:502:GDP:H5''	2.43	0.46
44:FC:11:GLN:O	44:FC:14:ILE:N	2.49	0.46
44:FC:141:VAL:HG11	44:FC:173:PRO:CD	2.45	0.46
44:FC:202:VAL:HG12	44:FC:203:MET:N	2.31	0.46
45:FD:52:ASN:HB2	45:FD:60:VAL:HG13	1.98	0.46
44:FE:204:LEU:HD12	44:FE:302:MET:HB3	1.98	0.46
44:FG:7:ILE:CG2	44:FG:153:LEU:HD13	2.46	0.46
44:FG:37:PRO:HG2	44:FG:40:LYS:HD2	1.98	0.46
44:FG:145:THR:HG23	44:FG:146:GLY:N	2.30	0.46
45:FH:69:GLU:OE1	45:FH:71:GLY:N	2.48	0.46
44:FI:349:THR:HG21	45:FL:176:SER:HB2	1.97	0.46
44:FK:326:LYS:O	44:FK:329:ASN:HB2	2.16	0.46
44:FK:428:LEU:HG	44:FK:432:TYR:HE2	1.80	0.46
45:FL:86:ARG:HG2	45:FL:89:ASN:OD1	2.16	0.46
45:FL:105:HIS:CD2	45:FL:150:LEU:HB2	2.50	0.46
45:FL:138:SER:HA	45:FL:169:VAL:HG22	1.96	0.46
45:FL:221:THR:HG22	45:FL:222:TYR:N	2.30	0.46
45:FL:294:PHE:HE2	45:FL:333:VAL:HG11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:136:THR:HG22	45:FN:167:PHE:CD1	2.50	0.46
45:FN:413:SER:HA	45:FN:416:ASN:HB3	1.98	0.46
44:GA:123:ARG:O	44:GA:126:ALA:HB3	2.16	0.46
44:GA:319:TYR:HA	44:GA:375:VAL:HA	1.97	0.46
45:GB:285:THR:HB	45:GB:287:PRO:HD2	1.98	0.46
44:GC:107:HIS:C	44:GC:108:TYR:HD1	2.18	0.46
44:GC:189:LEU:HD21	44:GC:418:PHE:HD1	1.80	0.46
45:GD:258:ILE:HD11	45:GD:266:PHE:CZ	2.50	0.46
45:GD:314:SER:N	45:GD:368:VAL:O	2.34	0.46
44:GE:64:ARG:HG2	44:GE:64:ARG:HH11	1.81	0.46
44:GE:176:GLN:HG2	44:GE:177:VAL:N	2.30	0.46
45:GF:289:LEU:HD11	45:GF:363:MET:CB	2.45	0.46
44:GG:11:GLN:CG	44:GG:74:VAL:HG11	2.32	0.46
44:GG:175:PRO:HG2	44:GG:176:GLN:HE22	1.79	0.46
44:GG:208:ALA:O	44:GG:211:ASP:N	2.48	0.46
44:GI:108:TYR:HA	44:GI:112:LYS:HE3	1.98	0.46
44:GI:174:SER:CA	44:GI:304:LYS:NZ	2.79	0.46
45:GJ:306:ARG:HG3	45:GJ:307:HIS:CD2	2.51	0.46
45:GJ:310:TYR:CD1	45:GJ:371:SER:HB2	2.51	0.46
45:GJ:334:GLN:HA	45:GJ:341:PHE:CE2	2.50	0.46
44:GK:191:THR:O	44:GK:195:LEU:HB2	2.16	0.46
44:GK:287:SER:O	44:GK:291:ILE:HG12	2.15	0.46
44:GK:389:SER:HA	44:GK:429:GLU:OE2	2.16	0.46
44:GK:439:THR:CB	45:GN:391:ARG:HD3	2.45	0.46
45:GL:317:PHE:O	45:GL:353:ILE:HA	2.16	0.46
44:GM:7:ILE:HG23	44:GM:66:VAL:CG1	2.45	0.46
44:GM:27:GLU:CD	44:GM:243:ARG:HH12	2.18	0.46
45:GN:66:MET:HE1	45:GN:151:LEU:HD13	1.98	0.46
44:HA:31:GLN:HB3	44:HA:32:PRO:HD2	1.97	0.46
44:HA:91:GLN:OE1	44:HA:91:GLN:N	2.49	0.46
44:HA:317:MET:O	44:HA:318:MET:HE2	2.15	0.46
45:HB:395:LEU:O	45:HB:399:THR:OG1	2.21	0.46
44:HC:177:VAL:HG23	45:HD:331:LEU:HD22	1.97	0.46
44:HC:203:MET:HG3	44:HC:384:ILE:HD11	1.98	0.46
44:HC:407:TRP:HZ3	45:HD:255:VAL:CA	2.28	0.46
45:HD:266:PHE:CD1	45:HD:370:ASN:HB2	2.50	0.46
45:HD:268:ILE:C	45:HD:300:MET:HE1	2.36	0.46
45:HD:285:THR:C	45:HD:287:PRO:HD2	2.36	0.46
45:HF:210:ILE:HG23	45:HF:214:THR:HG21	1.98	0.46
45:HH:77:ARG:HG3	45:HH:90:PHE:HZ	1.79	0.46
45:HH:311:LEU:CD2	45:HH:342:VAL:HG21	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HK:121:ARG:NH1	44:HK:124:LYS:HD3	2.30	0.46
44:HK:230:LEU:HD11	44:HK:275:ILE:HD13	1.97	0.46
45:HL:52:ASN:CG	45:HL:53:GLU:H	2.17	0.46
45:HL:86:ARG:HB3	45:HL:89:ASN:OD1	2.15	0.46
44:HM:13:GLY:O	44:HM:16:VAL:HG12	2.14	0.46
44:HM:115:VAL:HG21	44:HM:156:ARG:HD2	1.97	0.46
44:HM:169:PHE:CD1	44:HM:202:VAL:HB	2.49	0.46
44:HM:280:LYS:HD3	44:HM:283:HIS:ND1	2.31	0.46
45:HN:190:HIS:ND1	45:HN:414:ASN:HB3	2.30	0.46
45:HN:245:GLN:HB2	45:HN:246:LEU:HD12	1.97	0.46
45:HN:256:ASN:CG	45:HN:350:LYS:HD2	2.36	0.46
45:HN:316:LEU:HB2	45:HN:366:THR:CG2	2.46	0.46
45:HN:385:PHE:HA	45:HN:386:THR:HA	1.59	0.46
45:IB:327:ASP:O	45:IB:330:MET:HB2	2.16	0.46
44:IC:192:HIS:ND1	44:IC:424:ASP:OD2	2.49	0.46
44:IC:353:VAL:CG2	44:IC:355:ILE:HD11	2.41	0.46
44:IE:270:SER:O	44:IE:302:MET:HB2	2.16	0.46
45:IF:206:ALA:HB3	45:IF:300:MET:O	2.16	0.46
45:IF:251:ARG:O	45:IF:254:ALA:HB3	2.15	0.46
44:IG:231:ILE:CD1	44:IG:302:MET:HE2	2.39	0.46
44:IG:287:SER:O	44:IG:291:ILE:HG23	2.15	0.46
45:IH:55:THR:HG23	44:JE:286:LEU:HD21	1.97	0.46
45:IH:374:ILE:O	45:IH:374:ILE:HG12	2.16	0.46
44:II:219:ILE:HG21	44:II:222:PRO:HB3	1.96	0.46
44:II:402:ARG:O	44:II:405:VAL:HG23	2.16	0.46
45:IJ:40:SER:N	45:IJ:43:GLN:OE1	2.40	0.46
45:IJ:42:LEU:HD13	45:IJ:45:GLU:OE2	2.15	0.46
45:IL:36:TYR:OH	45:IL:38:GLY:HA3	2.16	0.46
45:IL:134:GLN:HA	45:IL:165:GLU:HB2	1.98	0.46
45:IL:200:MET:HA	45:IL:266:PHE:O	2.16	0.46
44:IM:88:HIS:ND1	44:IM:89:PRO:HD2	2.31	0.46
44:IM:103:PHE:CD2	44:IM:189:LEU:HD13	2.50	0.46
44:IM:141:VAL:CG2	44:IM:187:SER:HA	2.40	0.46
44:JA:250:VAL:O	44:JA:250:VAL:HG23	2.14	0.46
44:JA:273:ALA:HB1	44:JA:274:PRO:HA	1.97	0.46
45:JB:61:PRO:HG2	45:JB:84:LEU:HB3	1.97	0.46
45:JB:139:LEU:HA	45:JB:145:SER:HB3	1.96	0.46
45:JB:330:MET:CG	45:JB:349:ILE:HG21	2.44	0.46
45:JB:375:GLN:OE1	45:JB:379:LYS:HE3	2.16	0.46
45:JD:7:ILE:O	45:JD:135:ILE:HA	2.15	0.46
44:JE:26:LEU:HD23	44:JE:363:VAL:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JF:245:GLN:C	45:JF:246:LEU:HD12	2.35	0.46
44:JG:6:SER:O	44:JG:7:ILE:HD13	2.16	0.46
44:JG:25:CYS:HA	44:JG:30:ILE:CG1	2.45	0.46
44:JG:27:GLU:HB2	44:JG:361:THR:HG21	1.98	0.46
44:JG:177:VAL:CG2	45:JH:331:LEU:HD11	2.45	0.46
44:JG:179:THR:O	45:JH:350:LYS:HA	2.15	0.46
45:JH:330:MET:O	45:JH:333:VAL:HG12	2.16	0.46
45:JJ:104:GLY:O	45:JJ:109:GLY:HA3	2.16	0.46
44:JK:21:TRP:CH2	44:JK:63:PRO:HB3	2.51	0.46
44:JK:344:VAL:HG11	44:JK:346:TRP:CE2	2.51	0.46
45:JL:20:PHE:CD1	45:JL:233:MET:HE3	2.51	0.46
45:JL:173:PRO:CG	45:JL:380:ARG:HD3	2.46	0.46
44:JM:60:LYS:HD3	44:KM:282:TYR:O	2.16	0.46
44:JM:239:THR:O	44:JM:242:LEU:N	2.42	0.46
44:KA:195:LEU:HD12	44:KA:266:HIS:NE2	2.30	0.46
44:KA:319:TYR:HE1	44:KA:375:VAL:HG23	1.78	0.46
44:KC:5:ILE:HG23	44:KC:125:LEU:CD2	2.46	0.46
44:KC:68:LEU:HD11	44:KC:118:CYS:HB2	1.96	0.46
44:KC:71:GLU:OE1	45:KD:247:ASN:ND2	2.48	0.46
44:KC:252:ILE:HD12	44:KC:252:ILE:H	1.80	0.46
44:KE:52:PHE:CZ	44:KE:239:THR:HG21	2.51	0.46
45:KF:130:LEU:HD21	45:KF:133:PHE:CE2	2.50	0.46
45:KF:316:LEU:CD2	45:KF:352:SER:HB2	2.45	0.46
45:KJ:127:CYS:SG	45:KJ:130:LEU:HB2	2.56	0.46
44:KK:204:LEU:HD22	44:KK:302:MET:HE1	1.97	0.46
44:KM:28:HIS:CD2	44:KM:49:PHE:HA	2.50	0.46
45:KN:62:ARG:HG3	45:KN:123:GLU:HG2	1.98	0.46
45:KN:149:THR:O	45:KN:152:ILE:HB	2.16	0.46
44:LA:12:GLY:HA2	46:LB:501:GTP:C8	2.50	0.46
44:LA:315:CYS:SG	44:LA:317:MET:CE	3.04	0.46
45:LB:51:TYR:HB3	45:LB:59:TYR:HB3	1.97	0.46
44:LC:41:THR:O	44:LC:41:THR:HG22	2.16	0.46
45:LF:252:LYS:HD3	45:LF:350:LYS:HZ3	1.80	0.46
45:LF:344:TRP:O	45:LF:345:ILE:HG23	2.15	0.46
44:LG:9:VAL:CG1	44:LG:139:ASN:HB3	2.45	0.46
44:LG:209:ILE:CD1	44:LG:227:LEU:HD22	2.45	0.46
45:LH:315:ALA:HB1	45:LH:317:PHE:HE1	1.79	0.46
44:LI:6:SER:O	44:LI:7:ILE:HD13	2.16	0.46
44:LI:326:LYS:HE2	45:LL:208:TYR:CD1	2.50	0.46
45:LJ:28:HIS:CE1	45:LJ:47:ILE:HD13	2.50	0.46
45:LJ:169:VAL:O	45:LJ:169:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LJ:310:TYR:CE1	45:LJ:371:SER:HB3	2.50	0.46
44:LK:183:GLU:N	44:LK:184:PRO:HD2	2.31	0.46
44:LK:222:PRO:HG2	45:LL:324:LYS:CG	2.46	0.46
45:LL:104:GLY:C	45:LL:146:GLY:HA3	2.36	0.46
45:LL:152:ILE:HA	45:LL:164:MET:HE1	1.97	0.46
45:LN:250:LEU:O	45:LN:253:LEU:HB2	2.14	0.46
44:MA:282:TYR:OH	44:MA:369:ALA:HB1	2.16	0.46
44:MA:288:VAL:HA	44:MA:291:ILE:CD1	2.46	0.46
44:MA:318:MET:CE	44:MA:356:ASN:HB2	2.46	0.46
45:MB:3:GLU:OE2	45:MB:127:CYS:HB2	2.15	0.46
45:MB:105:HIS:CG	45:MB:150:LEU:HD12	2.51	0.46
45:MB:116:VAL:O	45:MB:119:VAL:HG12	2.16	0.46
44:MC:319:TYR:N	44:MC:354:GLY:O	2.42	0.46
45:MF:167:PHE:HE1	45:MF:200:MET:HE1	1.80	0.46
45:MH:412:GLU:O	45:MH:416:ASN:HB2	2.15	0.46
44:MI:203:MET:CB	44:MI:269:LEU:HD13	2.38	0.46
45:MJ:8:GLN:HE21	45:MJ:65:LEU:HG	1.81	0.46
45:MJ:377:MET:O	45:MJ:380:ARG:HG2	2.15	0.46
44:MK:70:LEU:HD13	44:MK:145:THR:OG1	2.15	0.46
45:ML:5:VAL:HG23	45:ML:62:ARG:O	2.15	0.46
45:ML:262:ARG:C	45:ML:263:LEU:HD12	2.36	0.46
44:MM:207:GLU:O	44:MM:304:LYS:NZ	2.36	0.46
45:MN:105:HIS:CE1	45:MN:106:TYR:CE1	3.04	0.46
45:MN:232:ALA:HB1	45:MN:268:ILE:HD12	1.98	0.46
45:MN:315:ALA:O	45:MN:351:SER:HA	2.16	0.46
44:NA:20:CYS:CB	44:NA:235:ILE:HD11	2.46	0.46
44:NA:224:TYR:CE2	45:NB:246:LEU:HD11	2.31	0.46
44:NA:319:TYR:O	44:NA:356:ASN:HB3	2.16	0.46
44:NA:388:PHE:HA	44:NA:391:LEU:HB2	1.97	0.46
45:NB:106:TYR:HD2	45:NB:403:MET:HE3	1.81	0.46
45:NB:374:ILE:HG13	45:NB:377:MET:HE2	1.97	0.46
45:ND:241:ARG:HH21	45:ND:318:ARG:NH2	2.13	0.46
45:ND:424:GLN:O	45:ND:424:GLN:HG2	2.16	0.46
45:NH:69:GLU:CD	45:NH:70:PRO:HD2	2.36	0.46
45:NH:165:GLU:HA	45:NH:198:GLU:O	2.15	0.46
45:NH:187:LEU:HD11	45:NH:408:PHE:CE1	2.51	0.46
45:NH:202:ILE:CD1	45:NH:268:ILE:HG12	2.37	0.46
44:NI:23:LEU:HD11	44:NI:361:THR:HG23	1.97	0.46
45:NJ:136:THR:HG22	45:NJ:167:PHE:HB2	1.97	0.46
45:NJ:263:LEU:HG	45:NJ:422:TYR:CD2	2.51	0.46
44:NK:137:VAL:HG12	44:NK:168:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:207:LEU:HD13	45:NL:225:LEU:HB3	1.98	0.46
45:NL:234:SER:O	45:NL:238:CYS:HB3	2.16	0.46
45:NL:418:LEU:HA	45:NL:421:GLU:OE2	2.16	0.46
44:NM:231:ILE:HD12	44:NM:231:ILE:H	1.80	0.46
45:NN:8:GLN:O	45:NN:66:MET:HG3	2.15	0.46
45:NN:100:ASN:HB2	45:NN:103:LYS:HE2	1.97	0.46
45:NN:190:HIS:NE2	45:NN:410:GLU:OE1	2.49	0.46
45:NN:310:TYR:HB2	45:NN:341:PHE:N	2.30	0.46
44:OA:101:ASN:C	44:OA:144:GLY:HA3	2.35	0.46
44:OA:177:VAL:CG2	45:OB:331:LEU:HD12	2.46	0.46
44:OA:276:ILE:HA	44:OA:280:LYS:CE	2.40	0.46
44:OC:56:THR:HG21	44:OC:60:LYS:N	2.30	0.46
45:OD:34:GLY:HA3	45:OD:58:ARG:NE	2.30	0.46
45:OD:186:THR:HG23	45:OD:187:LEU:N	2.31	0.46
45:OD:268:ILE:HA	45:OD:367:PHE:O	2.16	0.46
45:OD:282:ARG:CG	45:OD:283:ALA:N	2.78	0.46
45:OD:294:PHE:HE2	45:OD:367:PHE:CE1	2.34	0.46
44:OE:242:LEU:HD22	44:OE:252:ILE:HG23	1.97	0.46
44:OE:248:LEU:HD11	45:OH:222:TYR:CZ	2.50	0.46
44:OE:259:LEU:HD21	44:OE:316:SER:HB3	1.97	0.46
45:OF:99:ASN:HA	45:OF:142:GLY:CA	2.41	0.46
45:OF:151:LEU:O	45:OF:155:VAL:HG23	2.15	0.46
45:OF:282:ARG:HD2	45:OF:283:ALA:O	2.16	0.46
44:OG:224:TYR:CG	45:OH:323:THR:HG21	2.51	0.46
44:OG:259:LEU:HD11	44:OG:316:SER:HB3	1.97	0.46
44:OI:17:GLY:CA	44:OI:20:CYS:HB2	2.44	0.46
44:OI:115:VAL:HG21	44:OI:152:LEU:CD2	2.45	0.46
44:OI:317:MET:CE	44:OI:375:VAL:HG21	2.44	0.46
45:OJ:166:THR:O	45:OJ:167:PHE:HD1	1.97	0.46
45:OJ:330:MET:O	45:OJ:333:VAL:HG12	2.16	0.46
44:OK:102:ASN:HB3	44:OK:105:ARG:HG3	1.97	0.46
44:OK:238:LEU:HD11	44:OK:255:PHE:CZ	2.47	0.46
45:PB:2:ARG:N	45:PB:129:CYS:HB3	2.24	0.46
45:PB:50:TYR:C	45:PB:62:ARG:HH21	2.19	0.46
45:PB:61:PRO:HD3	45:PB:84:LEU:HB3	1.98	0.46
45:PB:167:PHE:CD2	45:PB:200:MET:HE2	2.50	0.46
45:PB:284:LEU:O	45:PB:363:MET:HE3	2.16	0.46
45:PD:323:THR:O	45:PD:326:VAL:HB	2.16	0.46
44:PE:251:ASP:O	44:PE:254:GLU:N	2.44	0.46
44:PG:306:ASP:HB3	44:PG:309:HIS:ND1	2.31	0.46
45:PH:103:LYS:HG3	45:PH:108:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:105:HIS:CE1	45:PH:150:LEU:HD21	2.51	0.46
44:PI:390:ARG:HG3	44:PI:391:LEU:N	2.30	0.46
45:PJ:375:GLN:O	45:PJ:379:LYS:HG3	2.16	0.46
44:PK:108:TYR:HE2	44:PK:413:MET:HA	1.80	0.46
44:PK:296:PHE:CE1	44:PK:377:MET:HE2	2.50	0.46
45:PL:20:PHE:O	45:PL:24:ILE:HG12	2.16	0.46
44:PM:71:GLU:OE1	44:PM:73:THR:N	2.49	0.46
44:PM:143:GLY:HA3	46:PM:501:GTP:O3B	2.16	0.46
44:PM:184:PRO:O	44:PM:187:SER:HB2	2.16	0.46
44:PM:231:ILE:O	44:PM:235:ILE:HD12	2.16	0.46
45:PN:221:THR:HG22	45:PN:222:TYR:N	2.30	0.46
44:QA:68:LEU:HD22	44:QA:153:LEU:HD11	1.97	0.46
44:QA:295:ALA:HB1	44:QA:377:MET:CE	2.45	0.46
45:QB:329:GLN:HA	45:QB:332:ASN:HB3	1.97	0.46
44:QC:420:GLU:HG3	44:QC:421:ALA:N	2.31	0.46
45:QD:77:ARG:O	45:QD:82:GLY:HA3	2.15	0.46
45:QD:99:ASN:CA	45:QD:142:GLY:HA3	2.39	0.46
45:QD:366:THR:HG23	45:QD:366:THR:O	2.16	0.46
44:QE:437:ILE:O	44:QE:437:ILE:HG13	2.15	0.46
45:QF:66:MET:CE	45:QF:147:MET:HG2	2.46	0.46
44:QG:201:ALA:HB3	44:QG:267:PHE:CD2	2.51	0.46
45:QH:31:ASP:OD2	45:QH:37:HIS:CD2	2.68	0.46
45:QH:65:LEU:CD2	45:QH:90:PHE:HE1	2.25	0.46
45:QH:320:ARG:O	45:QH:320:ARG:HG2	2.14	0.46
44:QI:6:SER:C	44:QI:7:ILE:HD13	2.36	0.46
45:QL:236:VAL:HA	45:QL:316:LEU:CD2	2.45	0.46
44:QM:256:GLN:HE21	44:QM:260:VAL:HB	1.80	0.46
45:QN:30:ILE:CD1	45:QN:36:TYR:HA	2.45	0.46
44:RA:50:ASN:OD1	44:RA:64:ARG:NH2	2.35	0.46
45:RB:238:CYS:HB2	45:RB:318:ARG:HH21	1.80	0.46
45:RB:315:ALA:C	45:RB:316:LEU:HD12	2.36	0.46
45:RB:321:MET:HB3	44:RC:221:ARG:NH2	2.26	0.46
44:RC:141:VAL:HG23	44:RC:190:SER:OG	2.16	0.46
45:RD:293:MET:O	45:RD:299:MET:HE3	2.15	0.46
44:RE:203:MET:HB3	44:RE:269:LEU:HD23	1.96	0.46
45:RF:261:PRO:HD3	44:RG:406:HIS:CD2	2.51	0.46
45:RF:302:ALA:CB	45:RF:377:MET:HE2	2.38	0.46
45:RF:384:GLN:O	45:RF:387:ALA:HB3	2.16	0.46
44:RG:185:TYR:HE1	44:RG:398:MET:HB2	1.81	0.46
44:RG:319:TYR:CE2	44:RG:328:VAL:HG13	2.50	0.46
45:RH:198:GLU:OE2	45:RH:258:ILE:HD11	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:380:ARG:O	45:RH:383:GLU:HB3	2.16	0.46
45:RH:404:ASP:HB2	45:RH:406:MET:HE1	1.97	0.46
45:RJ:192:LEU:HD21	45:RJ:199:CYS:SG	2.55	0.46
45:RJ:214:THR:O	45:RJ:216:LYS:HG3	2.16	0.46
44:RK:66:VAL:HG23	44:RK:66:VAL:O	2.15	0.46
44:RM:263:PRO:HD3	45:RN:396:HIS:CG	2.51	0.46
44:RM:314:ALA:H	44:RM:380:ASN:HB3	1.81	0.46
44:SA:51:THR:HG21	44:SA:243:ARG:CD	2.34	0.46
44:SA:313:MET:CB	44:SA:381:SER:HA	2.45	0.46
44:SA:315:CYS:HB3	44:SA:351:PHE:CD1	2.50	0.46
45:SB:65:LEU:HD12	45:SB:65:LEU:N	2.30	0.46
45:SB:309:ARG:HA	45:SB:340:TYR:C	2.36	0.46
45:SD:327:ASP:HB3	44:SE:177:VAL:HG11	1.98	0.46
44:SE:257:THR:HA	45:SF:397:TRP:CZ2	2.50	0.46
44:SG:5:ILE:CG2	44:SG:122:ILE:HD12	2.45	0.46
44:SG:86:LEU:HD23	44:SG:87:PHE:CE1	2.50	0.46
45:SJ:318:ARG:NH1	45:SJ:358:PRO:HG3	2.29	0.46
44:SK:346:TRP:HE3	44:SK:346:TRP:O	1.99	0.46
45:SL:148:GLY:O	45:SL:152:ILE:HG12	2.15	0.46
45:SL:158:GLU:HB2	45:SL:159:TYR:CD1	2.50	0.46
45:SL:345:ILE:HG23	45:SL:345:ILE:O	2.15	0.46
44:SM:119:LEU:HG	44:SM:120:ASP:N	2.30	0.46
45:SN:260:PHE:HB2	45:SN:263:LEU:HD13	1.98	0.46
44:TA:186:ASN:OD1	44:TA:187:SER:N	2.48	0.46
44:TC:145:THR:HG22	46:TC:501:GTP:O3B	2.16	0.46
44:TC:224:TYR:HB3	46:TC:501:GTP:O6	2.16	0.46
44:TC:288:VAL:CG1	44:TC:327:ASP:HB3	2.45	0.46
44:TC:311:LYS:HE2	44:TC:342:GLN:CD	2.36	0.46
45:TD:86:ARG:HG3	45:TD:88:ASP:H	1.80	0.46
45:TD:303:ALA:HB2	45:TD:377:MET:SD	2.56	0.46
44:TE:210:TYR:HE1	44:TE:227:LEU:HD11	1.81	0.46
44:TE:387:VAL:HA	44:TE:390:ARG:CD	2.45	0.46
45:TF:68:LEU:HD23	45:TF:97:ALA:HB2	1.98	0.46
45:TF:150:LEU:HD23	45:TF:154:LYS:HG3	1.96	0.46
45:TF:178:THR:HG21	45:TF:180:VAL:HG12	1.96	0.46
45:TF:252:LYS:N	44:TG:100:ALA:HB1	2.31	0.46
44:TG:70:LEU:HD13	44:TG:110:ILE:CD1	2.40	0.46
44:TG:311:LYS:N	44:TG:311:LYS:HD3	2.30	0.46
45:TH:305:PRO:HA	45:TH:373:ALA:CB	2.46	0.46
44:TI:70:LEU:HD11	44:TI:149:LEU:CD2	2.41	0.46
44:TI:238:LEU:HG	44:TI:255:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:231:ALA:O	45:TJ:234:SER:N	2.48	0.46
45:TJ:390:ARG:HG3	45:TJ:391:ARG:N	2.30	0.46
44:TK:248:LEU:HD13	45:TL:11:GLN:OE1	2.15	0.46
44:TK:291:ILE:O	44:TK:295:ALA:N	2.46	0.46
45:TL:106:TYR:HD2	45:TL:403:MET:SD	2.38	0.46
45:TL:331:LEU:HA	45:TL:334:GLN:CD	2.36	0.46
44:UA:175:PRO:O	44:UA:394:LYS:HE3	2.15	0.46
44:UA:268:MET:HB3	44:UA:380:ASN:CG	2.36	0.46
44:UC:294:SER:HA	44:UC:297:GLU:OE2	2.15	0.46
44:UC:349:THR:O	44:UC:349:THR:HG23	2.16	0.46
44:UC:363:VAL:O	44:UC:363:VAL:HG13	2.16	0.46
45:UD:117:LEU:HD22	45:UD:154:LYS:CD	2.45	0.46
45:UD:314:SER:HB3	45:UD:368:VAL:HG22	1.98	0.46
44:UE:67:PHE:O	44:UE:68:LEU:HD12	2.16	0.46
44:UE:68:LEU:HD21	44:UE:118:CYS:CB	2.44	0.46
44:UE:228:ASN:O	44:UE:232:ALA:N	2.46	0.46
44:UE:387:VAL:O	44:UE:391:LEU:HD13	2.16	0.46
45:UF:383:GLU:CA	45:UF:386:THR:HG22	2.43	0.46
44:UG:5:ILE:HB	44:UG:135:PHE:CE1	2.49	0.46
44:UG:194:LEU:CD2	44:UG:198:THR:HB	2.44	0.46
44:UG:276:ILE:HG23	44:UG:281:ALA:HB1	1.98	0.46
45:UH:1:MET:SD	45:UH:2:ARG:HD3	2.56	0.46
45:UH:178:THR:CG2	45:UH:179:VAL:N	2.79	0.46
45:UH:193:VAL:O	45:UH:193:VAL:HG22	2.16	0.46
45:UH:256:ASN:ND2	45:UH:350:LYS:HD2	2.31	0.46
45:UJ:8:GLN:HE21	45:UJ:65:LEU:HD21	1.81	0.46
45:UJ:257:LEU:HB3	45:UJ:266:PHE:CZ	2.50	0.46
45:UL:242:PHE:CD1	45:UL:356:ILE:HG13	2.50	0.46
45:UL:416:ASN:OD1	45:UL:417:ASP:N	2.49	0.46
44:UM:101:ASN:ND2	44:UM:101:ASN:O	2.49	0.46
44:UM:104:ALA:HB3	44:UM:411:GLU:CB	2.45	0.46
44:UM:387:VAL:O	44:UM:390:ARG:HG3	2.16	0.46
44:UM:402:ARG:C	44:UM:405:VAL:HG23	2.36	0.46
45:UN:398:TYR:HB3	45:UN:403:MET:HE3	1.96	0.46
44:VA:195:LEU:HA	44:VA:266:HIS:CE1	2.51	0.46
45:VB:313:ALA:N	45:VB:348:ASN:O	2.46	0.46
45:VD:288:GLU:HA	45:VD:291:GLN:HG3	1.96	0.46
44:VE:286:LEU:N	44:VE:290:GLU:OE2	2.49	0.46
45:VF:252:LYS:HA	45:VF:255:VAL:HB	1.98	0.46
44:VG:206:ASN:HB3	46:VG:501:GTP:HN22	1.81	0.46
45:VJ:63:ALA:O	45:VJ:64:ILE:HD13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:247:ALA:HB3	44:VK:355:ILE:HD12	1.98	0.46
45:VL:200:MET:HE2	45:VL:368:VAL:HG11	1.98	0.46
45:VL:213:ARG:HH21	45:VL:297:LYS:NZ	2.14	0.46
44:VM:174:SER:OG	44:VM:207:GLU:HB2	2.15	0.46
44:VM:185:TYR:HE2	44:VM:405:VAL:HG22	1.80	0.46
44:WA:184:PRO:HA	44:WA:187:SER:OG	2.15	0.46
44:WA:317:MET:HE2	44:WA:319:TYR:CE1	2.51	0.46
44:WA:407:TRP:HH2	45:WB:254:ALA:O	1.98	0.46
45:WD:169:VAL:HG22	45:WD:202:ILE:CG2	2.45	0.46
45:WD:216:LYS:HB2	45:WD:275:SER:HB3	1.98	0.46
44:WE:320:ARG:HG2	44:WE:374:ALA:HB3	1.97	0.46
45:WF:58:ARG:NH2	45:WF:84:LEU:HA	2.30	0.46
44:WG:277:SER:O	44:WG:281:ALA:HB2	2.16	0.46
45:WH:174:LYS:HD2	45:WH:175:VAL:HG13	1.97	0.46
44:WI:171:ILE:HG23	44:WI:204:LEU:O	2.15	0.46
45:WJ:10:GLY:HA2	45:WJ:143:THR:HG23	1.98	0.46
45:WJ:25:SER:HA	45:WJ:30:ILE:HG12	1.97	0.46
44:WM:72:PRO:HG2	45:WN:2:ARG:HH12	1.81	0.46
44:WM:248:LEU:HG	44:WM:354:GLY:HA2	1.96	0.46
45:WN:266:PHE:CD1	45:WN:370:ASN:HB2	2.51	0.46
45:WN:285:THR:OG1	45:WN:288:GLU:HB2	2.14	0.46
1:6H:377:LYS:HD2	44:FK:77:GLU:OE2	2.15	0.46
15:0V:51:LEU:HD23	44:LM:117:LEU:HD22	1.97	0.46
16:0X:42:LYS:HD3	44:LA:58:ALA:HA	1.96	0.46
22:1L:488:LYS:HE2	45:BH:33:THR:HG23	1.96	0.46
10:1N:253:LYS:HG3	45:KJ:92:PHE:HZ	1.79	0.46
25:1P:273:GLN:HA	44:TE:282:TYR:CE2	2.50	0.46
26:1R:93:VAL:HA	44:AC:370:LYS:CE	2.45	0.46
26:1R:283:ARG:HH22	44:CC:46:ASP:H	1.63	0.46
25:2P:385:ILE:HD11	44:TM:282:TYR:CB	2.45	0.46
25:2P:407:GLN:HB3	45:SL:56:GLY:C	2.36	0.46
32:3I:213:SER:HB2	44:FK:94:SER:O	2.16	0.46
14:3U:438:THR:HB	44:WM:37:PRO:HG3	1.96	0.46
35:4R:390:GLY:H	45:EF:276:ARG:HH12	1.63	0.46
37:5D:40:VAL:C	44:KK:261:PRO:HD2	2.36	0.46
37:5D:110:ARG:H	44:NM:282:TYR:N	1.96	0.46
38:5E:209:ARG:NH1	44:LC:424:ASP:HA	2.26	0.46
38:5G:9:TYR:CE2	38:5G:15:THR:HG21	2.51	0.46
38:5G:164:LYS:N	38:5G:165:PRO:CD	2.79	0.46
38:5G:178:SER:O	38:5G:182:THR:OG1	2.20	0.46
11:5Q:29:ILE:CD1	11:5Q:49:ILE:HD11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:115:LYS:HZ1	35:5R:132:PRO:HG2	1.81	0.46
35:5R:280:LEU:HD22	35:5R:359:TRP:CH2	2.51	0.46
35:5R:287:ILE:O	35:5R:303:PHE:HB3	2.15	0.46
35:5R:550:VAL:O	35:5R:554:LYS:HG3	2.16	0.46
36:5S:89:TRP:CZ3	36:5S:93:PRO:HB3	2.51	0.46
41:6G:277:LEU:CB	44:VA:214:ARG:HH12	2.29	0.46
35:6R:393:SER:O	35:6R:397:SER:N	2.38	0.46
35:7R:183:CYS:SG	35:7R:188:LYS:HG2	2.55	0.46
35:7R:311:LYS:CE	35:7R:329:TYR:HE1	2.29	0.46
35:7R:567:ASN:O	35:7R:570:VAL:HG22	2.16	0.46
42:8L:315:UNK:CB	44:SE:370:LYS:HE2	2.45	0.46
43:8R:173:UNK:O	43:8R:177:UNK:N	2.49	0.46
44:AA:296:PHE:HE1	44:AA:377:MET:SD	2.39	0.46
45:AB:113:ILE:O	45:AB:116:VAL:HG12	2.15	0.46
45:AB:201:VAL:HG23	45:AB:301:CYS:SG	2.56	0.46
44:AC:70:LEU:HD13	44:AC:110:ILE:HD11	1.97	0.46
44:AC:259:LEU:HD12	44:AC:316:SER:HB3	1.98	0.46
45:AF:186:THR:HG23	45:AF:415:MET:CE	2.46	0.46
45:AF:189:VAL:CG1	45:AF:415:MET:HE2	2.46	0.46
45:AF:257:LEU:HB3	45:AF:266:PHE:CZ	2.51	0.46
44:AG:91:GLN:HB3	44:AG:121:ARG:HD2	1.97	0.46
45:AH:65:LEU:HD22	45:AH:90:PHE:CE2	2.51	0.46
45:AH:418:LEU:O	45:AH:418:LEU:HD23	2.16	0.46
44:AI:51:THR:HG22	44:AI:52:PHE:CD1	2.49	0.46
44:AK:242:LEU:HD11	44:AK:252:ILE:CG1	2.45	0.46
44:AM:87:PHE:HB3	44:AM:92:LEU:HD11	1.97	0.46
44:AM:101:ASN:HD22	45:AN:252:LYS:HG3	1.78	0.46
44:AM:176:GLN:NE2	44:AM:207:GLU:OE2	2.48	0.46
44:AM:268:MET:HB2	44:AM:379:SER:O	2.16	0.46
44:AM:407:TRP:HH2	45:AN:254:ALA:HB1	1.79	0.46
45:AN:256:ASN:HD22	45:AN:350:LYS:CE	2.28	0.46
44:BA:305:CYS:SG	44:BA:383:ALA:HB1	2.56	0.46
44:BC:229:ARG:HH11	44:BC:363:VAL:HG11	1.79	0.46
45:BD:178:THR:CG2	45:BD:179:VAL:H	2.24	0.46
44:BE:230:LEU:CD1	44:BE:275:ILE:HD13	2.45	0.46
44:BG:229:ARG:HD3	44:BG:363:VAL:CG1	2.45	0.46
45:BJ:36:TYR:HE2	45:BJ:44:LEU:HG	1.81	0.46
45:BJ:293:MET:HE3	45:BJ:367:PHE:HD1	1.81	0.46
45:BL:135:ILE:HD13	45:BL:152:ILE:HD11	1.97	0.46
45:BL:179:VAL:HG22	45:BL:394:PHE:HE2	1.81	0.46
44:BM:3:GLU:CG	44:BM:129:CYS:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:275:SER:OG	45:BN:278:SER:HB3	2.15	0.46
44:CA:230:LEU:HD11	44:CA:275:ILE:HD13	1.97	0.46
44:CA:260:VAL:HB	45:CB:397:TRP:CH2	2.50	0.46
44:CA:269:LEU:HD13	44:CA:303:ALA:HB3	1.97	0.46
45:CB:289:LEU:HD13	45:CB:365:VAL:CG2	2.46	0.46
44:CC:261:PRO:HG2	44:CC:313:MET:SD	2.56	0.46
45:CD:32:PRO:HD3	45:CD:81:PHE:CE2	2.51	0.46
45:CD:65:LEU:CD1	45:CD:85:PHE:HD2	2.28	0.46
45:CF:166:THR:OG1	45:CF:199:CYS:HA	2.16	0.46
44:CG:311:LYS:O	44:CG:382:THR:HG22	2.15	0.46
44:CI:176:GLN:HG2	44:CI:177:VAL:N	2.30	0.46
44:CK:326:LYS:HE2	44:CK:326:LYS:CA	2.37	0.46
45:CL:183:TYR:HA	45:CL:385:PHE:HD1	1.80	0.46
45:CL:229:VAL:HG12	45:CL:233:MET:SD	2.56	0.46
45:CL:232:ALA:HB1	45:CL:268:ILE:HD12	1.98	0.46
44:CM:241:SER:O	44:CM:249:ASN:ND2	2.46	0.46
44:CM:408:TYR:HD1	44:CM:413:MET:CE	2.29	0.46
45:CN:86:ARG:HA	45:DN:281:TYR:CD2	2.51	0.46
45:CN:113:ILE:HD13	45:CN:150:LEU:CD2	2.39	0.46
45:CN:204:ASN:HA	45:CN:207:LEU:HG	1.97	0.46
44:DA:111:GLY:HA2	44:DA:149:LEU:HD21	1.97	0.46
45:DB:86:ARG:CZ	45:EB:278:SER:HA	2.45	0.46
45:DD:36:TYR:CZ	45:DD:38:GLY:HA3	2.51	0.46
45:DD:238:CYS:SG	45:DD:239:CYS:N	2.89	0.46
44:DE:167:LEU:CD1	44:DE:252:ILE:HD11	2.46	0.46
44:DG:326:LYS:HE2	45:DH:218:THR:O	2.15	0.46
45:DH:83:GLN:OE1	45:DH:83:GLN:HA	2.16	0.46
44:DI:37:PRO:O	44:DI:38:SER:CB	2.63	0.46
44:DI:63:PRO:HG2	44:DI:86:LEU:CG	2.44	0.46
44:DI:261:PRO:CG	44:DI:313:MET:HG3	2.46	0.46
45:DJ:60:VAL:HG23	45:DJ:84:LEU:O	2.16	0.46
45:DJ:116:VAL:HA	45:DJ:119:VAL:HG12	1.98	0.46
44:DK:9:VAL:HG12	44:DK:146:GLY:CA	2.39	0.46
44:DK:318:MET:CE	44:DK:354:GLY:HA3	2.46	0.46
44:DM:8:HIS:HB2	44:DM:67:PHE:CD1	2.51	0.46
44:DM:67:PHE:O	44:DM:68:LEU:HD12	2.16	0.46
44:DM:390:ARG:HG3	44:DM:391:LEU:HD12	1.97	0.46
45:DN:187:LEU:HD11	45:DN:403:MET:HE1	1.98	0.46
44:EA:199:ASP:O	44:EA:266:HIS:HB2	2.16	0.46
44:EA:241:SER:CB	44:EA:249:ASN:HA	2.44	0.46
45:EB:42:LEU:HA	45:EB:45:GLU:CG	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:395:LEU:HD11	45:EB:399:THR:HG23	1.98	0.46
44:EC:381:SER:O	44:EC:384:ILE:HG23	2.16	0.46
45:ED:346:PRO:HD2	44:EE:398:MET:HE1	1.97	0.46
44:EE:111:GLY:CA	44:EE:149:LEU:HD11	2.45	0.46
44:EE:122:ILE:HG22	44:EE:161:TYR:OH	2.16	0.46
44:EE:262:TYR:CE1	45:EF:393:ALA:HA	2.50	0.46
44:EG:141:VAL:HG11	44:EG:172:TYR:HE1	1.74	0.46
44:EI:11:GLN:N	46:EI:501:GTP:O2B	2.49	0.46
44:EI:232:ALA:O	44:EI:236:SER:N	2.43	0.46
45:EJ:317:PHE:CD1	45:EJ:365:VAL:HG11	2.51	0.46
44:EK:36:MET:HA	44:EK:36:MET:HE2	1.96	0.46
44:EK:261:PRO:HB3	45:EL:394:PHE:CE1	2.51	0.46
45:EL:280:GLN:O	45:EL:280:GLN:HG2	2.15	0.46
45:EL:314:SER:HB2	45:EL:350:LYS:HB3	1.97	0.46
44:EM:236:SER:HA	44:EM:243:ARG:NH2	2.31	0.46
44:EM:318:MET:HA	44:EM:354:GLY:H	1.81	0.46
45:EN:374:ILE:HD11	45:EN:422:TYR:CE1	2.51	0.46
44:FA:259:LEU:HD21	44:FA:316:SER:HB3	1.95	0.46
44:FA:324:VAL:CG1	44:FA:325:PRO:HD2	2.46	0.46
44:FC:107:HIS:ND1	44:FC:152:LEU:HB2	2.31	0.46
44:FC:422:ARG:HH11	44:FC:422:ARG:HG3	1.81	0.46
45:FD:40:SER:OG	45:FD:43:GLN:HG3	2.16	0.46
44:FE:174:SER:OG	44:FE:206:ASN:OD1	2.33	0.46
44:FE:407:TRP:HZ3	45:FF:255:VAL:CA	2.22	0.46
45:FF:256:ASN:O	45:FF:257:LEU:HD12	2.16	0.46
45:FH:251:ARG:O	45:FH:254:ALA:HB3	2.16	0.46
44:FI:22:GLU:HG3	44:FI:83:TYR:CE2	2.51	0.46
44:FI:103:PHE:HB3	44:FI:408:TYR:HE2	1.81	0.46
44:FI:437:ILE:O	44:FI:437:ILE:HG13	2.15	0.46
44:FK:104:ALA:O	44:FK:108:TYR:N	2.41	0.46
44:FK:312:TYR:CD1	44:FK:381:SER:HB3	2.51	0.46
45:FL:343:GLU:OE2	45:FL:430:ALA:N	2.44	0.46
45:FL:416:ASN:HA	45:FL:419:VAL:HB	1.98	0.46
44:FM:19:ALA:HB1	44:FM:229:ARG:HD2	1.97	0.46
44:GA:3:GLU:HG3	44:GA:50:ASN:O	2.15	0.46
44:GA:16:VAL:HG13	44:GA:228:ASN:HA	1.97	0.46
45:GB:317:PHE:HB2	45:GB:353:ILE:HG13	1.98	0.46
44:GC:97:GLU:HG2	44:GC:105:ARG:NH2	2.31	0.46
44:GC:271:SER:HB2	44:GC:377:MET:HG2	1.97	0.46
45:GD:7:ILE:HB	45:GD:135:ILE:HD11	1.95	0.46
45:GD:178:THR:H	45:GD:181:GLU:CD	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:437:ILE:HG13	44:GG:437:ILE:O	2.14	0.46
45:GH:395:LEU:O	45:GH:399:THR:HG23	2.15	0.46
45:GJ:391:ARG:NE	45:GJ:391:ARG:HA	2.31	0.46
45:GJ:397:TRP:HA	45:GJ:397:TRP:CE3	2.50	0.46
44:GK:27:GLU:HB2	44:GK:361:THR:HG21	1.97	0.46
45:GL:175:VAL:O	45:GL:175:VAL:HG23	2.16	0.46
45:GL:211:CYS:SG	45:GL:217:LEU:HD21	2.55	0.46
44:HA:269:LEU:HD23	44:HA:379:SER:O	2.14	0.46
44:HA:353:VAL:HG22	45:HD:177:ASP:HA	1.97	0.46
45:HB:139:LEU:O	45:HB:145:SER:HB3	2.15	0.46
45:HB:270:PHE:O	45:HB:273:LEU:HG	2.16	0.46
45:HB:313:ALA:HB1	45:HB:367:PHE:CE1	2.48	0.46
45:HB:362:LYS:HG3	45:HB:363:MET:SD	2.55	0.46
45:HB:388:MET:HE2	45:HB:393:ALA:HB3	1.97	0.46
44:HC:88:HIS:HB3	44:HC:91:GLN:CB	2.46	0.46
44:HC:141:VAL:HG21	44:HC:190:SER:OG	2.15	0.46
45:HD:309:ARG:O	45:HD:372:THR:HG23	2.16	0.46
44:HE:132:LEU:CD2	44:HE:164:LYS:HD3	2.46	0.46
44:HG:406:HIS:CD2	45:HH:261:PRO:HD3	2.51	0.46
45:HH:166:THR:O	45:HH:199:CYS:HA	2.16	0.46
44:HI:247:ALA:HB1	45:HL:222:TYR:HD2	1.78	0.46
44:HI:265:ILE:HG23	44:HI:432:TYR:OH	2.15	0.46
44:HK:3:GLU:HA	44:HK:51:THR:O	2.16	0.46
44:HK:262:TYR:CZ	45:HN:393:ALA:HA	2.50	0.46
45:HL:152:ILE:CA	45:HL:155:VAL:HG22	2.46	0.46
44:HM:317:MET:CE	44:HM:351:PHE:HD2	2.29	0.46
44:IA:271:SER:HA	44:IA:302:MET:CE	2.46	0.46
45:IB:68:LEU:HB2	45:IB:147:MET:SD	2.56	0.46
45:IB:330:MET:CA	45:IB:333:VAL:HG12	2.45	0.46
44:IC:15:GLN:O	44:IC:18:ASN:HB2	2.15	0.46
44:IC:326:LYS:HA	44:IC:326:LYS:HD3	1.56	0.46
44:IC:402:ARG:HA	44:IC:405:VAL:HG21	1.97	0.46
45:ID:267:MET:O	45:ID:369:GLY:N	2.37	0.46
44:IE:207:GLU:OE1	44:IE:304:LYS:NZ	2.47	0.46
44:IE:271:SER:HB3	44:IE:300:ASN:O	2.16	0.46
44:IE:392:ASP:OD1	44:IE:422:ARG:NH1	2.49	0.46
44:IG:4:VAL:HG21	44:IG:52:PHE:HE1	1.81	0.46
44:IG:203:MET:HA	44:IG:203:MET:HE3	1.95	0.46
45:IH:173:PRO:CD	45:IH:380:ARG:HD3	2.46	0.46
45:IH:177:ASP:N	45:IH:181:GLU:OE2	2.46	0.46
44:II:51:THR:HG21	44:II:243:ARG:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:224:TYR:CE2	45:IJ:246:LEU:HD11	2.48	0.46
44:II:362:VAL:HG13	44:II:362:VAL:O	2.15	0.46
44:II:363:VAL:HG23	44:II:364:PRO:HD2	1.97	0.46
45:IJ:258:ILE:HD11	45:IJ:266:PHE:CZ	2.40	0.46
45:IJ:372:THR:O	45:IJ:375:GLN:HG2	2.15	0.46
44:IK:175:PRO:HG2	44:IK:304:LYS:CG	2.44	0.46
44:IK:198:THR:HG22	44:IK:200:VAL:H	1.81	0.46
44:IK:285:GLN:O	44:IK:286:LEU:HB2	2.14	0.46
45:IL:304:ASP:HB3	45:IL:307:HIS:CE1	2.51	0.46
45:IN:134:GLN:HA	45:IN:165:GLU:O	2.15	0.46
44:JA:79:ARG:NH2	44:JA:92:LEU:O	2.49	0.46
45:JB:287:PRO:O	45:JB:291:GLN:HB2	2.15	0.46
44:JC:191:THR:HA	44:JC:194:LEU:HG	1.98	0.46
44:JC:258:ASN:HD21	44:JC:352:LYS:HB2	1.80	0.46
44:JC:260:VAL:HG21	44:JC:266:HIS:HB3	1.96	0.46
44:JE:73:THR:HG21	45:JF:247:ASN:CG	2.36	0.46
44:JE:171:ILE:HG12	44:JE:204:LEU:HB2	1.97	0.46
44:JE:254:GLU:O	44:JE:258:ASN:HB3	2.15	0.46
45:JF:359:LYS:HD2	45:JF:359:LYS:O	2.16	0.46
44:JG:25:CYS:HB3	44:JG:30:ILE:HG13	1.98	0.46
44:JG:187:SER:CB	44:JG:391:LEU:HD21	2.45	0.46
44:JG:324:VAL:HG13	44:JG:325:PRO:HD2	1.98	0.46
45:JH:201:VAL:HG23	45:JH:301:CYS:SG	2.56	0.46
45:JJ:66:MET:SD	45:JJ:147:MET:CE	3.04	0.46
44:JK:183:GLU:CG	44:JK:184:PRO:HD3	2.46	0.46
45:JL:173:PRO:HG2	45:JL:380:ARG:HH11	1.81	0.46
45:JL:242:PHE:HB2	45:JL:354:CYS:SG	2.56	0.46
44:JM:312:TYR:N	44:JM:343:PHE:HA	2.22	0.46
44:KA:151:SER:HB3	44:KA:193:SER:OG	2.16	0.46
44:KA:261:PRO:HA	45:KD:394:PHE:CE2	2.50	0.46
44:KA:273:ALA:O	44:KA:375:VAL:HG12	2.15	0.46
44:KA:286:LEU:O	44:KA:373:ARG:HD2	2.15	0.46
44:KC:91:GLN:HG3	44:KC:91:GLN:O	2.16	0.46
44:KC:387:VAL:HA	44:KC:390:ARG:HH12	1.81	0.46
45:KD:19:LYS:HE2	45:KD:226:ASN:HD21	1.81	0.46
45:KF:139:LEU:HD13	45:KF:168:SER:HB2	1.98	0.46
44:KG:1:MET:O	44:KG:131:GLY:HA3	2.15	0.46
44:KG:66:VAL:HG23	44:KG:91:GLN:O	2.16	0.46
44:KG:268:MET:HB2	44:KG:380:ASN:HA	1.97	0.46
45:KH:20:PHE:O	45:KH:24:ILE:HG12	2.16	0.46
45:KH:296:ALA:O	45:KH:299:MET:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:51:THR:O	44:KI:52:PHE:HD1	1.99	0.46
45:KJ:113:ILE:HD13	45:KJ:150:LEU:HD22	1.97	0.46
45:KJ:173:PRO:HD2	45:KJ:174:LYS:NZ	2.30	0.46
44:KK:267:PHE:CZ	44:KK:388:PHE:HZ	2.33	0.46
44:KM:64:ARG:CA	44:KM:125:LEU:HD21	2.45	0.46
44:LA:264:ARG:HH11	44:LA:264:ARG:HG2	1.81	0.46
44:LA:276:ILE:HD11	44:LA:280:LYS:HD2	1.97	0.46
44:LA:425:LEU:O	44:LA:428:LEU:HB3	2.16	0.46
45:LD:36:TYR:CZ	45:LD:38:GLY:HA3	2.50	0.46
45:LD:313:ALA:HB3	45:LD:349:ILE:HD12	1.97	0.46
45:LF:4:ILE:HD11	45:LF:50:TYR:OH	2.15	0.46
45:LH:204:ASN:ND2	48:LH:501:GDP:HN22	2.14	0.46
44:LI:13:GLY:HA2	44:LI:16:VAL:CG2	2.44	0.46
44:LI:239:THR:O	44:LI:242:LEU:HB2	2.15	0.46
44:LI:437:ILE:HG13	44:LI:437:ILE:O	2.15	0.46
45:LL:207:LEU:CD2	45:LL:228:LEU:HD23	2.44	0.46
44:LM:172:TYR:HB3	44:LM:173:PRO:HD2	1.97	0.46
44:LM:285:GLN:CG	44:LM:287:SER:HB2	2.46	0.46
44:LM:407:TRP:HZ3	45:LN:255:VAL:HA	1.76	0.46
45:LN:19:LYS:HE2	45:LN:19:LYS:HA	1.98	0.46
45:LN:69:GLU:O	45:LN:73:MET:HE2	2.15	0.46
44:MA:14:ILE:HD12	44:MA:74:VAL:CG2	2.46	0.46
44:MA:332:ILE:HD12	44:MA:351:PHE:HD1	1.76	0.46
45:MB:52:ASN:HD21	45:MB:62:ARG:NE	2.14	0.46
45:MB:68:LEU:HD23	45:MB:97:ALA:N	2.31	0.46
45:MB:156:ARG:NH2	45:MB:160:PRO:O	2.49	0.46
44:MC:195:LEU:CD1	44:MC:267:PHE:HE1	2.29	0.46
44:MC:262:TYR:OH	45:MF:391:ARG:O	2.28	0.46
45:MD:155:VAL:HG21	45:MD:164:MET:HE1	1.98	0.46
45:MD:345:ILE:O	45:MD:345:ILE:HG23	2.15	0.46
44:ME:206:ASN:O	44:ME:209:ILE:N	2.49	0.46
44:ME:208:ALA:HB2	44:ME:304:LYS:HE2	1.98	0.46
45:MF:67:ASP:CG	45:MF:72:THR:HG21	2.36	0.46
44:MG:145:THR:HG22	46:MG:501:GTP:O3G	2.16	0.46
44:MG:434:GLU:OE2	44:MG:437:ILE:HD11	2.15	0.46
45:MH:21:TRP:CZ3	45:MH:61:PRO:HB3	2.50	0.46
45:MH:268:ILE:CG2	45:MH:368:VAL:HG22	2.46	0.46
45:MH:383:GLU:O	45:MH:386:THR:HG22	2.15	0.46
44:MK:16:VAL:CA	44:MK:228:ASN:HD22	2.23	0.46
44:MK:345:ASP:OD2	44:MK:439:THR:HG22	2.16	0.46
45:ML:257:LEU:CD2	45:ML:368:VAL:HG12	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:19:ALA:CB	44:MM:228:ASN:HB3	2.46	0.46
45:MN:154:LYS:HD3	45:MN:154:LYS:HA	1.78	0.46
44:NA:1:MET:SD	45:ND:94:GLN:HB3	2.56	0.46
44:NA:2:ARG:NE	45:ND:69:GLU:OE2	2.42	0.46
45:NB:7:ILE:HG13	45:NB:66:MET:HE3	1.98	0.46
45:NB:26:ASP:O	45:NB:359:LYS:HE2	2.16	0.46
45:NB:100:ASN:O	45:NB:103:LYS:HB3	2.16	0.46
45:NB:404:ASP:N	45:NB:404:ASP:OD1	2.46	0.46
44:NC:250:VAL:HG23	44:NC:352:LYS:HE2	1.96	0.46
45:ND:7:ILE:CG2	45:ND:151:LEU:HD21	2.46	0.46
45:ND:36:TYR:CZ	45:ND:38:GLY:HA3	2.51	0.46
45:ND:67:ASP:O	45:ND:68:LEU:HD22	2.16	0.46
45:ND:113:ILE:CD1	45:ND:150:LEU:HD22	2.46	0.46
45:ND:235:GLY:HA3	45:ND:366:THR:HG21	1.97	0.46
44:NE:169:PHE:CD1	44:NE:202:VAL:HB	2.51	0.46
45:NF:342:VAL:HG21	45:NF:344:TRP:NE1	2.30	0.46
44:NG:174:SER:HB3	44:NG:207:GLU:CD	2.35	0.46
45:NH:11:GLN:CA	45:NH:14:ASN:HB2	2.44	0.46
45:NH:31:ASP:HB3	45:NH:37:HIS:HD2	1.81	0.46
44:NI:26:LEU:CD2	44:NI:364:PRO:HD2	2.46	0.46
44:NI:204:LEU:HD13	44:NI:231:ILE:HD12	1.98	0.46
44:NI:422:ARG:O	44:NI:425:LEU:HB2	2.16	0.46
45:NJ:20:PHE:CE1	45:NJ:24:ILE:HG13	2.50	0.46
45:NJ:267:MET:CG	45:NJ:299:MET:HE2	2.39	0.46
44:NK:221:ARG:HD2	45:NL:324:LYS:HZ1	1.81	0.46
45:NL:172:SER:HA	45:NL:380:ARG:HH22	1.81	0.46
45:NL:313:ALA:HB3	45:NL:349:ILE:HG23	1.98	0.46
44:NM:21:TRP:HA	44:NM:24:PHE:CD2	2.51	0.46
44:NM:202:VAL:HG22	44:NM:268:MET:CE	2.44	0.46
44:NM:239:THR:OG1	44:NM:242:LEU:HB2	2.16	0.46
44:NM:313:MET:HG3	44:NM:346:TRP:CH2	2.51	0.46
45:NN:372:THR:HA	45:NN:422:TYR:OH	2.15	0.46
45:OB:136:THR:HG22	45:OB:167:PHE:CD2	2.51	0.46
45:OD:274:THR:HG22	45:OD:275:SER:N	2.30	0.46
44:OE:183:GLU:HG2	44:OE:184:PRO:N	2.30	0.46
44:OG:206:ASN:O	44:OG:208:ALA:N	2.49	0.46
44:OG:387:VAL:O	44:OG:390:ARG:HG2	2.16	0.46
44:OI:49:PHE:O	44:OI:53:PHE:HB2	2.16	0.46
44:OI:171:ILE:CD1	44:OI:204:LEU:HB2	2.45	0.46
44:OI:284:GLU:OE2	44:OI:286:LEU:N	2.25	0.46
44:OI:421:ALA:O	44:OI:424:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:62:ARG:O	45:OJ:62:ARG:HG3	2.16	0.46
44:OK:140:SER:HA	44:OK:170:THR:HG23	1.98	0.46
44:OK:301:MET:HE3	44:OK:307:PRO:HG2	1.98	0.46
44:OK:329:ASN:O	44:OK:332:ILE:N	2.49	0.46
45:OL:199:CYS:HB3	45:OL:265:PHE:CE2	2.50	0.46
45:OL:302:ALA:H	45:OL:377:MET:CE	2.29	0.46
45:OL:417:ASP:O	45:OL:420:SER:OG	2.19	0.46
44:OM:109:THR:HG21	44:OM:411:GLU:OE1	2.16	0.46
44:OM:178:SER:HB3	44:OM:183:GLU:OE2	2.15	0.46
44:OM:241:SER:HB2	44:OM:250:VAL:O	2.16	0.46
44:PA:332:ILE:HD11	44:PA:351:PHE:CE2	2.51	0.46
44:PC:8:HIS:HB2	44:PC:67:PHE:CD2	2.51	0.46
44:PC:311:LYS:HE3	44:PC:342:GLN:O	2.16	0.46
44:PC:311:LYS:HZ1	44:PC:342:GLN:HB2	1.80	0.46
44:PE:6:SER:OG	44:PE:65:ALA:HA	2.15	0.46
44:PE:187:SER:HA	44:PE:190:SER:OG	2.16	0.46
44:PE:339:ARG:HG3	44:PE:339:ARG:O	2.16	0.46
44:PG:224:TYR:HD2	46:PG:501:GTP:C6	2.34	0.46
45:PH:375:GLN:O	45:PH:379:LYS:HG3	2.15	0.46
45:PJ:313:ALA:CB	45:PJ:369:GLY:HA2	2.46	0.46
44:PK:188:ILE:HG23	44:PK:425:LEU:CD1	2.46	0.46
45:PL:330:MET:N	45:PL:330:MET:HE2	2.31	0.46
44:PM:226:ASN:O	44:PM:230:LEU:HD23	2.16	0.46
44:PM:276:ILE:HD13	44:PM:281:ALA:HA	1.98	0.46
44:PM:387:VAL:HA	44:PM:390:ARG:HH11	1.80	0.46
44:QA:268:MET:HE1	44:QA:380:ASN:HB2	1.96	0.46
45:QB:134:GLN:HB3	45:QB:165:GLU:HB2	1.97	0.46
45:QB:380:ARG:O	45:QB:383:GLU:HB3	2.16	0.46
44:QC:190:SER:O	44:QC:194:LEU:HG	2.15	0.46
45:QD:217:LEU:CD1	45:QD:220:PRO:HG3	2.46	0.46
45:QF:73:MET:HA	45:QF:73:MET:HE3	1.97	0.46
44:QG:109:THR:HG23	44:QG:110:ILE:N	2.31	0.46
44:QG:153:LEU:O	44:QG:157:LEU:HG	2.15	0.46
45:QH:141:GLY:HA2	48:QH:501:GDP:PA	2.56	0.46
45:QH:398:TYR:O	45:QH:403:MET:HB2	2.15	0.46
44:QI:70:LEU:HD13	44:QI:110:ILE:HD12	1.97	0.46
44:QI:200:VAL:HG13	44:QI:268:MET:CE	2.46	0.46
44:QI:247:ALA:HB1	45:QJ:222:TYR:HD2	1.81	0.46
44:QI:363:VAL:O	44:QI:363:VAL:HG13	2.16	0.46
45:QJ:71:GLY:O	45:QJ:75:SER:OG	2.34	0.46
45:QJ:404:ASP:OD1	45:QJ:407:GLU:N	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:19:ALA:HB2	44:QK:228:ASN:HB3	1.97	0.46
45:QL:61:PRO:CG	45:QL:84:LEU:HD23	2.44	0.46
45:QL:167:PHE:CE2	45:QL:233:MET:HG3	2.49	0.46
44:QM:269:LEU:CD1	44:QM:303:ALA:HB3	2.45	0.46
45:QN:113:ILE:O	45:QN:116:VAL:HG12	2.15	0.46
44:RA:30:ILE:HG23	44:RA:36:MET:HE3	1.97	0.46
44:RA:183:GLU:N	44:RA:184:PRO:CD	2.78	0.46
45:RB:135:ILE:HG21	45:RB:152:ILE:HD11	1.98	0.46
44:RC:2:ARG:HG3	44:RC:51:THR:OG1	2.15	0.46
44:RC:26:LEU:HD22	44:RC:364:PRO:CD	2.44	0.46
44:RC:242:LEU:HD11	44:RC:252:ILE:CG1	2.33	0.46
44:RE:15:GLN:O	44:RE:18:ASN:HB2	2.16	0.46
45:RF:288:GLU:O	45:RF:291:GLN:HG2	2.16	0.46
44:RG:52:PHE:HE2	44:RG:243:ARG:NE	2.13	0.46
44:RG:204:LEU:CD2	44:RG:302:MET:HG2	2.46	0.46
44:RG:233:GLN:HG2	44:RG:272:TYR:CE2	2.51	0.46
44:RG:418:PHE:O	44:RG:421:ALA:HB3	2.16	0.46
44:RI:66:VAL:CG2	44:RI:125:LEU:HD12	2.46	0.46
45:RL:314:SER:HG	45:RL:315:ALA:H	1.64	0.46
44:RM:183:GLU:HG2	44:RM:184:PRO:N	2.31	0.46
44:RM:326:LYS:HE2	45:RN:212:PHE:CZ	2.51	0.46
45:RN:180:VAL:HG23	45:RN:183:TYR:HD2	1.80	0.46
44:SA:129:CYS:SG	44:SA:132:LEU:HD12	2.56	0.46
44:SA:313:MET:HB2	44:SA:380:ASN:O	2.15	0.46
44:SA:321:GLY:HA2	44:SA:357:TYR:O	2.16	0.46
45:SB:318:ARG:HA	45:SB:354:CYS:O	2.15	0.46
45:SD:222:TYR:O	45:SD:225:LEU:N	2.49	0.46
45:SD:341:PHE:HB3	45:SD:348:ASN:HD21	1.80	0.46
44:SE:223:THR:O	44:SE:225:THR:N	2.49	0.46
45:SF:187:LEU:HD11	45:SF:408:PHE:CZ	2.51	0.46
45:SF:263:LEU:CD2	45:SF:422:TYR:HD1	2.29	0.46
45:SH:238:CYS:SG	45:SH:239:CYS:N	2.89	0.46
45:SH:252:LYS:HG3	44:SI:101:ASN:OD1	2.15	0.46
45:SH:289:LEU:HB3	45:SH:365:VAL:HG11	1.96	0.46
45:SJ:178:THR:HG22	45:SJ:180:VAL:HG12	1.97	0.46
45:SL:238:CYS:HB2	45:SL:318:ARG:CD	2.46	0.46
45:SL:240:LEU:O	45:SL:240:LEU:HD23	2.16	0.46
45:SL:267:MET:CE	45:SL:305:PRO:HB3	2.46	0.46
45:SL:276:ARG:O	45:SL:276:ARG:HD3	2.16	0.46
44:SM:153:LEU:HA	44:SM:156:ARG:HG2	1.98	0.46
45:SN:215:LEU:HD23	45:SN:273:LEU:HB3	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TB:8:GLN:HE21	45:TB:14:ASN:HA	1.81	0.46
45:TB:58:ARG:HD3	45:UB:280:GLN:CB	2.42	0.46
45:TB:203:ASP:HB2	45:TB:206:ALA:CB	2.46	0.46
45:TB:238:CYS:SG	45:TB:239:CYS:N	2.89	0.46
45:TB:247:ASN:H	44:TC:11:GLN:HE22	1.62	0.46
45:TB:329:GLN:HE22	45:TB:330:MET:HE1	1.80	0.46
44:TC:284:GLU:HG3	44:TC:286:LEU:CD2	2.45	0.46
45:TD:6:HIS:NE2	45:TD:8:GLN:OE1	2.49	0.46
45:TD:106:TYR:HD2	45:TD:403:MET:SD	2.39	0.46
45:TD:206:ALA:O	45:TD:209:ASP:N	2.48	0.46
44:TE:285:GLN:O	44:TE:286:LEU:HD23	2.16	0.46
44:TE:317:MET:HB3	44:TE:319:TYR:CE1	2.51	0.46
44:TE:413:MET:HE3	44:TE:417:GLU:HG3	1.98	0.46
45:TF:199:CYS:N	45:TF:264:HIS:HD1	2.14	0.46
45:TF:256:ASN:HA	44:TG:181:VAL:CG2	2.46	0.46
44:TI:198:THR:HG22	44:TI:199:ASP:N	2.31	0.46
45:TJ:267:MET:HE2	45:TJ:299:MET:HG3	1.97	0.46
45:TL:4:ILE:HD12	45:TL:134:GLN:CD	2.36	0.46
45:TL:32:PRO:HG3	45:TL:81:PHE:CZ	2.50	0.46
45:TL:295:ASP:OD1	45:TL:296:ALA:N	2.48	0.46
45:TL:397:TRP:HA	45:TL:397:TRP:HE3	1.81	0.46
44:TM:118:CYS:O	44:TM:122:ILE:HG12	2.16	0.46
44:TM:145:THR:O	44:TM:149:LEU:HB2	2.16	0.46
44:TM:284:GLU:O	44:TM:286:LEU:HD23	2.16	0.46
45:UB:139:LEU:HD22	45:UB:170:VAL:HG12	1.97	0.46
44:UC:190:SER:O	44:UC:193:SER:N	2.48	0.46
44:UC:269:LEU:HG	44:UC:379:SER:OG	2.16	0.46
45:UD:345:ILE:O	45:UD:345:ILE:HG23	2.15	0.46
44:UE:14:ILE:CD1	44:UE:75:ILE:HD11	2.44	0.46
44:UE:104:ALA:CB	44:UE:411:GLU:HB2	2.46	0.46
44:UE:269:LEU:HD23	44:UE:269:LEU:H	1.81	0.46
44:UG:22:GLU:HG3	44:UG:83:TYR:CZ	2.50	0.46
44:UG:75:ILE:HG21	44:UG:94:SER:HB2	1.98	0.46
44:UG:237:SER:HA	44:UG:240:ALA:HB2	1.98	0.46
44:UG:363:VAL:HG13	44:UG:363:VAL:O	2.15	0.46
44:UG:437:ILE:HG13	44:UG:437:ILE:O	2.15	0.46
44:UI:71:GLU:O	44:UI:75:ILE:HD13	2.15	0.46
44:UI:107:HIS:ND1	44:UI:107:HIS:O	2.49	0.46
44:UI:215:ARG:HH22	44:UI:300:ASN:HA	1.80	0.46
44:UK:62:VAL:HG21	44:VI:283:HIS:O	2.16	0.46
44:UK:101:ASN:OD1	44:UK:144:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:320:ARG:CZ	44:UK:360:PRO:HA	2.45	0.46
45:UL:392:LYS:CB	45:UL:395:LEU:HD22	2.45	0.46
45:UN:69:GLU:HB3	45:UN:96:GLY:CA	2.46	0.46
45:UN:156:ARG:NH2	45:UN:160:PRO:O	2.49	0.46
44:VA:311:LYS:HB2	44:VA:344:VAL:HG12	1.98	0.46
45:VB:55:THR:CG2	45:WB:283:ALA:HA	2.42	0.46
45:VB:63:ALA:O	45:VB:89:ASN:ND2	2.31	0.46
45:VB:290:THR:HA	45:VB:293:MET:HG3	1.97	0.46
44:VC:356:ASN:OD1	44:VC:357:TYR:N	2.46	0.46
45:VF:164:MET:HB2	45:VF:197:ASP:HB2	1.97	0.46
45:VF:263:LEU:O	45:VF:263:LEU:HD23	2.15	0.46
44:VG:28:HIS:NE2	44:VG:48:ALA:O	2.48	0.46
44:VG:108:TYR:CD2	44:VG:413:MET:HG2	2.51	0.46
44:VG:115:VAL:HG22	44:VG:156:ARG:HD2	1.96	0.46
44:VG:346:TRP:CD1	45:VJ:391:ARG:HG3	2.51	0.46
45:VH:49:VAL:CB	45:VH:241:ARG:HG2	2.46	0.46
45:VH:131:GLN:HE22	45:VH:163:ILE:CD1	2.29	0.46
45:VH:288:GLU:O	45:VH:291:GLN:HG3	2.15	0.46
44:VI:237:SER:OG	44:VI:320:ARG:HD3	2.16	0.46
44:VI:428:LEU:HD21	44:VI:432:TYR:HE2	1.80	0.46
44:VK:54:SER:HB3	44:VK:64:ARG:CZ	2.46	0.46
44:VK:167:LEU:HD21	44:VK:255:PHE:CD2	2.50	0.46
44:VK:183:GLU:HG2	44:VK:184:PRO:CD	2.46	0.46
45:VL:5:VAL:HG22	45:VL:6:HIS:N	2.31	0.46
44:VM:265:ILE:HD13	44:VM:435:VAL:HG11	1.97	0.46
45:VN:119:VAL:HG12	45:VN:120:VAL:N	2.30	0.46
45:VN:352:SER:C	45:VN:353:ILE:HD12	2.37	0.46
44:WA:7:ILE:O	44:WA:137:VAL:HA	2.16	0.46
44:WA:149:LEU:HD22	44:WA:153:LEU:HD13	1.98	0.46
44:WA:325:PRO:HG3	44:WA:355:ILE:CD1	2.46	0.46
45:WB:19:LYS:O	45:WB:22:GLU:N	2.49	0.46
45:WB:251:ARG:O	45:WB:254:ALA:HB3	2.16	0.46
44:WC:38:SER:CA	44:WC:42:ILE:HD12	2.44	0.46
44:WC:88:HIS:CE1	44:WC:89:PRO:HD2	2.50	0.46
44:WC:122:ILE:O	44:WC:125:LEU:N	2.49	0.46
44:WC:271:SER:OG	44:WC:301:MET:HA	2.15	0.46
45:WD:105:HIS:CE1	45:WD:150:LEU:HD12	2.50	0.46
45:WD:150:LEU:HD21	45:WD:154:LYS:HE2	1.98	0.46
45:WD:274:THR:HG21	45:WD:278:SER:C	2.36	0.46
44:WE:168:GLY:O	44:WE:201:ALA:HA	2.16	0.46
45:WF:171:PRO:HG3	45:WF:181:GLU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:268:ILE:HA	45:WF:367:PHE:O	2.15	0.46
45:WH:41:ASP:OD1	45:WH:42:LEU:N	2.49	0.46
45:WH:186:THR:HG21	45:WH:385:PHE:CD1	2.51	0.46
45:WJ:42:LEU:HD22	45:WJ:243:PRO:HD2	1.97	0.46
45:WJ:61:PRO:HD2	45:WJ:84:LEU:O	2.16	0.46
44:WK:100:ALA:O	45:WL:255:VAL:HG21	2.16	0.46
44:WK:329:ASN:HA	44:WK:332:ILE:HB	1.97	0.46
44:WK:344:VAL:HG23	44:WK:347:CYS:HB2	1.97	0.46
45:WN:20:PHE:HB2	45:WN:230:SER:OG	2.16	0.46
45:WN:337:ASN:HB3	45:WN:340:TYR:HB2	1.97	0.46
10:0N:10:TYR:CZ	45:IN:52:ASN:HA	2.50	0.46
10:0N:250:ILE:HD12	44:KK:1:MET:HB2	1.98	0.46
5:1D:166:ARG:HH22	44:EG:80:THR:HB	1.78	0.46
18:1F:132:GLU:OE1	44:GI:364:PRO:HG3	2.15	0.46
21:1K:51:ARG:HH22	44:JC:47:ASP:H	1.64	0.46
22:1L:892:ARG:HH21	44:CC:279:GLU:N	2.13	0.46
10:1N:1:MET:CB	44:II:114:ILE:HD11	2.45	0.46
16:1X:3:ARG:H	45:MH:75:SER:CB	2.28	0.46
32:2I:116:LEU:CA	44:GC:339:ARG:HD2	2.45	0.46
21:2K:401:LYS:HD3	45:FH:56:GLY:O	2.15	0.46
26:2R:92:TRP:CE3	44:AG:370:LYS:HE3	2.50	0.46
26:2R:429:GLU:HB2	45:FH:276:ARG:HH12	1.81	0.46
16:2X:81:ARG:HH11	45:MJ:276:ARG:HH11	1.61	0.46
2:3A:61:TYR:HB2	45:MN:48:ASN:OD1	2.14	0.46
15:3V:117:PRO:HG2	45:LD:392:LYS:HD2	1.98	0.46
37:5C:79:LEU:HD22	45:NJ:320:ARG:NH2	2.31	0.46
37:5D:39:ARG:NH1	44:KK:200:VAL:HG13	2.31	0.46
37:5D:109:ASN:H	44:NM:280:LYS:CA	2.21	0.46
38:5G:80:LYS:HE2	44:KI:400:ALA:O	2.16	0.46
38:5G:98:LYS:HG3	38:5G:98:LYS:O	2.15	0.46
38:5H:24:ASP:HB3	38:5H:29:LYS:HA	1.98	0.46
39:5K:82:LEU:HA	39:5K:85:LEU:HD12	1.98	0.46
35:5R:278:TYR:HE2	35:5R:331:PRO:HD3	1.80	0.46
36:5S:69:TYR:HD2	36:5S:116:TYR:HE1	1.64	0.46
40:6F:99:ARG:HD2	44:JE:367:ASP:OD1	2.16	0.46
41:6G:214:LEU:HD11	44:VC:330:ALA:HA	1.98	0.46
11:6Q:13:ILE:HG22	11:6Q:25:TRP:HZ2	1.81	0.46
35:6R:11:LEU:HD21	45:LN:26:ASP:OD2	2.16	0.46
35:7R:87:LYS:HE3	35:7R:88:TYR:OH	2.16	0.46
35:7R:487:GLU:HB3	35:7R:523:PHE:HZ	1.81	0.46
43:8P:273:UNK:CB	45:QD:276:ARG:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:102:ASN:OD1	44:AA:104:ALA:HB3	2.16	0.46
44:AA:135:PHE:HE2	44:AA:157:LEU:HD12	1.81	0.46
44:AA:348:PRO:HD2	45:AD:388:MET:CE	2.46	0.46
45:AB:68:LEU:HD23	45:AB:97:ALA:CB	2.46	0.46
45:AB:323:THR:OG1	45:AB:324:LYS:N	2.49	0.46
44:AC:172:TYR:HB3	44:AC:173:PRO:HD2	1.97	0.46
44:AC:398:MET:HE2	45:AD:345:ILE:HG13	1.98	0.46
45:AD:264:HIS:ND1	45:AD:264:HIS:O	2.48	0.46
44:AE:172:TYR:CD1	44:AE:173:PRO:HD2	2.51	0.46
44:AE:332:ILE:HD12	44:AE:351:PHE:CD2	2.51	0.46
44:AG:102:ASN:O	44:AG:105:ARG:HB2	2.16	0.46
44:AG:319:TYR:HB2	44:AG:355:ILE:CD1	2.44	0.46
45:AH:4:ILE:HD11	45:AH:131:GLN:HG2	1.97	0.46
45:AH:86:ARG:HE	45:AH:87:PRO:HD2	1.80	0.46
44:AK:200:VAL:HG13	44:AK:268:MET:SD	2.55	0.46
44:AK:325:PRO:HG3	45:AN:222:TYR:CE2	2.50	0.46
45:AL:64:ILE:HA	45:AL:89:ASN:HB3	1.98	0.46
45:AL:132:GLY:HA3	45:AL:163:ILE:HG13	1.98	0.46
45:AL:174:LYS:HE3	45:AL:175:VAL:CG1	2.46	0.46
45:AL:258:ILE:CG1	45:AL:266:PHE:HZ	2.28	0.46
44:AM:54:SER:HB3	44:AM:64:ARG:NH2	2.31	0.46
45:AN:389:PHE:CE1	45:AN:395:LEU:HD22	2.50	0.46
44:BA:101:ASN:ND2	45:BB:252:LYS:HG3	2.17	0.46
44:BA:182:VAL:O	44:BA:182:VAL:HG22	2.15	0.46
45:BD:4:ILE:CG1	45:BD:50:TYR:HE1	2.29	0.46
44:BE:276:ILE:CG1	44:BE:280:LYS:HG3	2.46	0.46
44:BE:288:VAL:HA	44:BE:291:ILE:HG12	1.97	0.46
45:BF:132:GLY:HA3	45:BF:163:ILE:CG1	2.44	0.46
44:BG:22:GLU:HG3	44:BG:83:TYR:CZ	2.51	0.46
44:BG:239:THR:O	44:BG:239:THR:HG22	2.16	0.46
45:BH:192:LEU:HG	45:BH:196:ALA:HB3	1.98	0.46
45:BH:372:THR:HG22	45:BH:422:TYR:HE1	1.81	0.46
44:BI:26:LEU:CD2	44:BI:364:PRO:HD3	2.46	0.46
44:BI:93:ILE:HG12	44:BI:117:LEU:CD2	2.46	0.46
44:BI:221:ARG:CD	45:BJ:322:SER:HB3	2.43	0.46
44:BI:223:THR:HG23	44:BI:225:THR:H	1.81	0.46
44:BI:407:TRP:CH2	45:BJ:254:ALA:HB1	2.48	0.46
44:BM:177:VAL:O	44:BM:177:VAL:HG13	2.15	0.46
44:BM:264:ARG:HH11	44:BM:264:ARG:HG2	1.81	0.46
45:BN:196:ALA:HB3	45:BN:264:HIS:CE1	2.51	0.46
44:CA:217:LEU:HB3	44:CA:219:ILE:CG1	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CB:276:ARG:NE	45:CB:276:ARG:HA	2.31	0.46
44:CC:317:MET:HB3	44:CC:377:MET:CB	2.46	0.46
44:CC:344:VAL:HG22	44:CC:345:ASP:N	2.30	0.46
45:CD:163:ILE:HG13	45:CD:164:MET:N	2.31	0.46
45:CD:268:ILE:HG22	45:CD:368:VAL:HG22	1.97	0.46
45:CD:317:PHE:CE2	45:CD:326:VAL:HG13	2.51	0.46
45:CD:350:LYS:HA	44:CE:179:THR:O	2.16	0.46
45:CF:7:ILE:HD11	45:CF:135:ILE:CD1	2.45	0.46
45:CF:31:ASP:OD2	45:CF:37:HIS:CG	2.69	0.46
45:CF:223:GLY:O	45:CF:227:HIS:CD2	2.69	0.46
45:CF:314:SER:CB	45:CF:350:LYS:HB3	2.46	0.46
45:CH:362:LYS:HD3	45:CH:363:MET:HG3	1.97	0.46
44:CI:258:ASN:HD22	45:CJ:180:VAL:HG23	1.81	0.46
44:CK:210:TYR:HE1	44:CK:227:LEU:CD1	2.28	0.46
45:CL:3:GLU:HB3	45:CL:49:VAL:HA	1.98	0.46
45:CL:342:VAL:HG22	45:CL:343:GLU:N	2.30	0.46
44:CM:89:PRO:HD3	44:DM:283:HIS:ND1	2.30	0.46
44:CM:223:THR:HG23	44:CM:225:THR:OG1	2.16	0.46
44:DA:13:GLY:O	44:DA:16:VAL:HG12	2.15	0.46
44:DA:82:THR:HA	44:DA:84:ARG:NH1	2.30	0.46
44:DA:317:MET:HA	44:DA:376:CYS:O	2.16	0.46
44:DA:324:VAL:O	44:DA:327:ASP:HB2	2.15	0.46
45:DB:248:SER:CA	45:DB:252:LYS:HD2	2.30	0.46
44:DC:30:ILE:HD13	44:DC:37:PRO:CD	2.43	0.46
44:DC:171:ILE:HG12	44:DC:204:LEU:HB2	1.97	0.46
44:DC:271:SER:O	44:DC:377:MET:HG2	2.16	0.46
44:DC:383:ALA:O	44:DC:386:GLU:HG2	2.16	0.46
45:DD:81:PHE:O	45:DD:84:LEU:HD13	2.16	0.46
45:DF:65:LEU:HD22	45:DF:90:PHE:CZ	2.51	0.46
44:DG:32:PRO:HB3	44:DG:83:TYR:HE1	1.80	0.46
44:DG:320:ARG:O	44:DG:374:ALA:HB3	2.16	0.46
45:DJ:105:HIS:ND1	45:DJ:150:LEU:HD12	2.31	0.46
45:DJ:323:THR:O	45:DJ:326:VAL:HB	2.16	0.46
44:DK:69:ASP:OD2	44:DK:74:VAL:HG21	2.15	0.46
45:DL:179:VAL:O	45:DL:182:PRO:HD2	2.16	0.46
45:DL:330:MET:SD	45:DL:349:ILE:HG21	2.56	0.46
44:DM:296:PHE:HE2	44:DM:335:ILE:HG13	1.81	0.46
45:DN:327:ASP:O	45:DN:331:LEU:N	2.49	0.46
44:EA:215:ARG:CZ	44:EA:299:ALA:HB1	2.46	0.46
45:EB:22:GLU:HG2	45:EB:81:PHE:CB	2.46	0.46
45:EB:260:PHE:CZ	44:EC:403:ALA:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:272:PRO:HB3	45:EB:282:ARG:CZ	2.45	0.46
44:EC:99:ALA:HB3	44:EC:145:THR:N	2.31	0.46
44:EC:104:ALA:CB	44:EC:411:GLU:HB2	2.45	0.46
44:EC:136:LEU:HD22	44:EC:167:LEU:CD2	2.36	0.46
44:EC:390:ARG:O	44:EC:393:HIS:HB3	2.15	0.46
45:ED:178:THR:HG22	45:ED:180:VAL:H	1.80	0.46
44:EE:23:LEU:HD21	44:EE:233:GLN:OE1	2.15	0.46
44:EE:88:HIS:H	44:EE:91:GLN:NE2	2.14	0.46
45:EF:97:ALA:CB	45:EF:143:THR:HB	2.45	0.46
45:EF:169:VAL:HG13	45:EF:169:VAL:O	2.15	0.46
45:EF:215:LEU:HD12	45:EF:217:LEU:HD21	1.98	0.46
45:EF:217:LEU:HD12	45:EF:217:LEU:O	2.15	0.46
45:EF:293:MET:CG	45:EF:367:PHE:HB2	2.45	0.46
45:EJ:265:PHE:HB2	45:EJ:374:ILE:HD13	1.98	0.46
45:EJ:317:PHE:CD1	45:EJ:365:VAL:HG21	2.50	0.46
44:EK:238:LEU:HD21	44:EK:255:PHE:HE2	1.81	0.46
44:EK:255:PHE:O	44:EK:259:LEU:N	2.49	0.46
44:EK:288:VAL:O	44:EK:291:ILE:HG12	2.16	0.46
44:EM:195:LEU:HD11	44:EM:428:LEU:HD13	1.97	0.46
44:EM:278:ALA:HA	44:EM:281:ALA:HB3	1.96	0.46
45:EN:10:GLY:HA3	45:EN:144:GLY:HA3	1.97	0.46
45:EN:397:TRP:HB3	45:EN:398:TYR:CD1	2.51	0.46
44:FA:167:LEU:HD21	44:FA:255:PHE:CD2	2.51	0.46
44:FA:387:VAL:HG12	44:FA:390:ARG:HH11	1.80	0.46
45:FB:167:PHE:HB2	45:FB:233:MET:HE1	1.98	0.46
44:FC:223:THR:CA	45:FD:322:SER:HB2	2.45	0.46
45:FD:302:ALA:CB	45:FD:380:ARG:HH12	2.29	0.46
45:FD:315:ALA:HB1	45:FD:317:PHE:HE1	1.81	0.46
45:FD:318:ARG:HD3	45:FD:358:PRO:CD	2.46	0.46
45:FF:320:ARG:O	45:FF:320:ARG:HG3	2.16	0.46
45:FF:388:MET:O	45:FF:393:ALA:HB3	2.15	0.46
45:FF:397:TRP:HA	45:FF:397:TRP:CE3	2.51	0.46
45:FF:403:MET:HA	45:FF:403:MET:CE	2.46	0.46
44:FG:115:VAL:HB	44:FG:152:LEU:HD23	1.97	0.46
44:FG:159:VAL:O	44:FG:159:VAL:HG12	2.15	0.46
45:FH:83:GLN:OE1	45:FH:83:GLN:HA	2.16	0.46
45:FH:100:ASN:OD1	45:FH:103:LYS:HB2	2.16	0.46
44:FI:340:THR:O	44:FI:341:ILE:HD13	2.16	0.46
44:FI:398:MET:HE1	45:FJ:346:PRO:HD2	1.97	0.46
45:FJ:271:ALA:HB1	45:FJ:272:PRO:HA	1.97	0.46
44:FK:209:ILE:HG12	44:FK:302:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:137:VAL:HG13	44:FM:168:GLY:HA2	1.98	0.46
45:FN:139:LEU:CD2	45:FN:185:ALA:HB1	2.36	0.46
45:FN:166:THR:OG1	45:FN:199:CYS:HA	2.15	0.46
45:GB:237:THR:HA	45:GB:240:LEU:CD2	2.45	0.46
44:GC:188:ILE:HD12	44:GC:425:LEU:HD11	1.98	0.46
44:GC:224:TYR:O	44:GC:227:LEU:N	2.43	0.46
45:GD:67:ASP:N	45:GD:73:MET:HE1	2.31	0.46
45:GD:151:LEU:HD23	45:GD:155:VAL:HG21	1.98	0.46
45:GD:170:VAL:HG22	45:GD:171:PRO:CD	2.46	0.46
45:GF:55:THR:C	45:GF:57:GLY:H	2.19	0.46
45:GF:133:PHE:N	45:GF:164:MET:HE2	2.25	0.46
44:GG:71:GLU:HB3	45:GH:247:ASN:HD21	1.81	0.46
45:GH:101:TRP:CZ3	45:GH:187:LEU:HD13	2.51	0.46
45:GH:163:ILE:HG21	45:GH:251:ARG:CD	2.46	0.46
45:GH:251:ARG:HG3	45:GH:251:ARG:NH1	2.31	0.46
44:GI:210:TYR:CG	45:GJ:324:LYS:HD3	2.51	0.46
44:GI:259:LEU:HD21	44:GI:316:SER:HB2	1.96	0.46
45:GJ:268:ILE:HA	45:GJ:367:PHE:O	2.15	0.46
45:GJ:290:THR:HA	45:GJ:293:MET:CB	2.45	0.46
44:GK:7:ILE:O	44:GK:137:VAL:HA	2.15	0.46
44:GK:224:TYR:CD1	44:GK:227:LEU:HD12	2.48	0.46
44:GK:317:MET:HA	44:GK:377:MET:CB	2.46	0.46
44:GM:103:PHE:CE2	44:GM:148:GLY:HA2	2.51	0.46
44:GM:182:VAL:C	44:GM:184:PRO:HD2	2.36	0.46
44:GM:394:LYS:O	44:GM:397:LEU:HB2	2.16	0.46
44:GM:394:LYS:O	44:GM:397:LEU:N	2.48	0.46
45:GN:143:THR:HG23	45:GN:144:GLY:N	2.31	0.46
44:HA:71:GLU:OE2	44:HA:72:PRO:HD2	2.16	0.46
44:HA:82:THR:HG23	44:HA:83:TYR:N	2.31	0.46
44:HA:238:LEU:HD21	44:HA:255:PHE:CE2	2.51	0.46
44:HA:316:SER:OG	44:HA:378:ILE:HB	2.16	0.46
44:HA:348:PRO:CD	45:HD:388:MET:HE3	2.36	0.46
44:HC:3:GLU:O	44:HC:132:LEU:HA	2.16	0.46
44:HC:56:THR:HG23	44:HC:56:THR:O	2.15	0.46
44:HC:349:THR:OG1	45:HF:176:SER:OG	2.01	0.46
45:HD:221:THR:HG22	45:HD:222:TYR:N	2.31	0.46
45:HD:382:ALA:O	45:HD:385:PHE:N	2.48	0.46
44:HE:272:TYR:HD2	44:HE:275:ILE:HD11	1.79	0.46
44:HG:166:LYS:HE2	44:HG:197:HIS:O	2.16	0.46
44:HG:191:THR:HA	44:HG:194:LEU:HG	1.97	0.46
45:HH:313:ALA:HB3	45:HH:349:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HJ:215:LEU:HA	45:HJ:275:SER:HA	1.96	0.46
44:HK:286:LEU:HG	44:HK:371:VAL:HG21	1.96	0.46
44:HK:291:ILE:HG13	44:HK:292:THR:N	2.30	0.46
44:HK:326:LYS:NZ	45:HN:208:TYR:CD1	2.78	0.46
45:HL:169:VAL:HG11	45:HL:204:ASN:HD21	1.81	0.46
45:HN:151:LEU:O	45:HN:155:VAL:HG23	2.16	0.46
44:IA:88:HIS:CG	44:IA:91:GLN:HG3	2.51	0.46
45:IB:143:THR:O	45:IB:147:MET:N	2.43	0.46
45:IB:248:SER:CA	45:IB:252:LYS:HD2	2.44	0.46
45:IB:293:MET:HE1	45:IB:315:ALA:HB2	1.97	0.46
44:IC:385:ALA:HB2	44:IC:432:TYR:HD2	1.80	0.46
45:ID:28:HIS:CE1	45:ID:241:ARG:HD2	2.51	0.46
45:IF:11:GLN:HG2	48:IF:501:GDP:O3B	2.16	0.46
45:IF:215:LEU:HD21	45:IF:273:LEU:CD1	2.44	0.46
45:IF:304:ASP:HB3	45:IF:307:HIS:HD2	1.77	0.46
45:IF:323:THR:O	45:IF:326:VAL:HB	2.15	0.46
44:IG:15:GLN:O	44:IG:18:ASN:HB3	2.15	0.46
44:II:215:ARG:NH1	44:II:300:ASN:OD1	2.49	0.46
45:IJ:259:PRO:HG2	45:IJ:311:LEU:CD2	2.46	0.46
45:IJ:271:ALA:HB1	45:IJ:272:PRO:HA	1.96	0.46
45:IL:263:LEU:HG	45:IL:422:TYR:CD1	2.51	0.46
44:IM:141:VAL:HG12	44:IM:171:ILE:O	2.16	0.46
45:IN:139:LEU:HG	45:IN:188:SER:OG	2.16	0.46
45:IN:150:LEU:O	45:IN:154:LYS:HG2	2.15	0.46
45:IN:312:THR:O	45:IN:370:ASN:N	2.37	0.46
44:JA:26:LEU:HD21	44:JA:364:PRO:HD3	1.98	0.46
44:JA:60:LYS:CE	44:KA:282:TYR:HB3	2.44	0.46
45:JB:153:SER:HA	45:JB:195:ASN:ND2	2.31	0.46
44:JC:173:PRO:O	44:JC:390:ARG:NH2	2.49	0.46
44:JC:335:ILE:HA	44:JC:338:LYS:NZ	2.28	0.46
45:JD:341:PHE:HB3	45:JD:348:ASN:ND2	2.10	0.46
44:JE:407:TRP:CD1	45:JF:255:VAL:HA	2.51	0.46
45:JF:286:VAL:HG11	45:JF:325:GLU:HB3	1.97	0.46
44:JG:407:TRP:CE2	45:JH:258:ILE:HD11	2.51	0.46
44:JG:430:LYS:HE2	44:JG:430:LYS:HA	1.98	0.46
45:JH:54:ALA:CB	45:JH:86:ARG:HH22	2.28	0.46
45:JJ:407:GLU:OE1	45:JJ:407:GLU:N	2.39	0.46
44:JK:133:GLN:HB2	44:JK:252:ILE:HD11	1.98	0.46
44:JK:195:LEU:O	44:JK:266:HIS:NE2	2.36	0.46
45:JL:19:LYS:HG2	45:JL:227:HIS:HA	1.97	0.46
45:JL:140:GLY:C	45:JL:184:ASN:HD21	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JL:350:LYS:NZ	45:JL:352:SER:OG	2.49	0.46
44:JM:207:GLU:HA	44:JM:210:TYR:CD2	2.51	0.46
44:JM:320:ARG:HB3	44:JM:356:ASN:HB3	1.97	0.46
45:JN:20:PHE:HA	45:JN:230:SER:CB	2.39	0.46
44:KA:406:HIS:HE1	45:KB:258:ILE:O	1.99	0.46
45:KB:5:VAL:HA	45:KB:62:ARG:HH11	1.81	0.46
45:KB:5:VAL:C	45:KB:62:ARG:HH11	2.20	0.46
45:KD:2:ARG:O	45:KD:2:ARG:HG3	2.15	0.46
45:KD:22:GLU:HA	45:KD:81:PHE:CD2	2.51	0.46
45:KD:190:HIS:CD2	45:KD:414:ASN:HD22	2.34	0.46
45:KF:86:ARG:HG3	45:LF:281:TYR:CG	2.51	0.46
44:KG:49:PHE:CE2	44:KG:61:HIS:HD2	2.34	0.46
44:KG:56:THR:CB	44:KG:60:LYS:HE3	2.45	0.46
44:KG:254:GLU:OE2	45:KJ:99:ASN:N	2.49	0.46
44:KG:289:ALA:O	44:KG:292:THR:HG22	2.15	0.46
44:KG:315:CYS:SG	44:KG:379:SER:HB3	2.55	0.46
44:KI:210:TYR:CE1	44:KI:227:LEU:HD21	2.51	0.46
44:KI:386:GLU:O	44:KI:390:ARG:HG3	2.16	0.46
45:KJ:46:ARG:HG3	45:KJ:49:VAL:HG23	1.97	0.46
44:KK:24:PHE:HZ	44:KK:235:ILE:CG2	2.29	0.46
44:KK:36:MET:SD	44:KK:61:HIS:NE2	2.89	0.46
44:KK:119:LEU:HD21	44:KK:156:ARG:HG2	1.98	0.46
45:KL:2:ARG:CB	45:KL:131:GLN:HB2	2.44	0.46
45:KN:166:THR:HG23	45:KN:166:THR:O	2.16	0.46
45:KN:177:ASP:HB2	48:KN:501:GDP:O3'	2.16	0.46
45:KN:269:GLY:CA	45:KN:300:MET:HE1	2.46	0.46
44:LA:311:LYS:HB3	44:LA:344:VAL:HG23	1.98	0.46
44:LA:407:TRP:CZ3	45:LB:255:VAL:HA	2.51	0.46
45:LB:143:THR:HG1	45:LB:144:GLY:N	2.14	0.46
45:LB:257:LEU:HG	45:LB:266:PHE:CE1	2.51	0.46
45:LB:267:MET:HE1	45:LB:371:SER:HB3	1.98	0.46
44:LC:73:THR:CB	45:LD:247:ASN:HD22	2.29	0.46
45:LD:19:LYS:O	45:LD:22:GLU:HG2	2.16	0.46
45:LD:113:ILE:O	45:LD:117:LEU:HG	2.15	0.46
45:LD:284:LEU:CB	45:LD:363:MET:HE1	2.39	0.46
45:LD:334:GLN:HG3	45:LD:341:PHE:CD2	2.51	0.46
44:LE:63:PRO:HG2	44:LE:87:PHE:CD1	2.51	0.46
45:LF:34:GLY:O	45:LF:58:ARG:HA	2.16	0.46
45:LF:217:LEU:CD1	45:LF:220:PRO:HG3	2.46	0.46
45:LF:257:LEU:HD23	45:LF:266:PHE:CE2	2.50	0.46
45:LF:286:VAL:N	45:LF:287:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LG:96:LYS:HA	45:LH:1:MET:CE	2.46	0.46
45:LH:40:SER:H	45:LH:43:GLN:NE2	2.14	0.46
45:LH:286:VAL:N	45:LH:287:PRO:CD	2.79	0.46
44:LI:145:THR:HG23	44:LI:146:GLY:N	2.30	0.46
44:LI:165:SER:HA	44:LI:199:ASP:OD2	2.16	0.46
44:LI:167:LEU:HA	44:LI:200:VAL:O	2.16	0.46
44:LI:439:THR:HB	45:LL:390:ARG:NH2	2.31	0.46
45:LL:135:ILE:CB	45:LL:166:THR:HG22	2.46	0.46
45:LL:228:LEU:HG	45:LL:300:MET:CE	2.46	0.46
45:LL:286:VAL:N	45:LL:287:PRO:CD	2.78	0.46
45:LN:143:THR:HG22	48:LN:502:GDP:O2B	2.16	0.46
44:MA:275:ILE:CG2	44:MA:275:ILE:O	2.64	0.46
44:MA:280:LYS:O	44:MA:283:HIS:HB2	2.16	0.46
45:MB:214:THR:CG2	45:MB:273:LEU:HB2	2.44	0.46
44:MC:91:GLN:NE2	44:MC:125:LEU:HD21	2.31	0.46
44:MC:323:VAL:O	44:MC:323:VAL:HG23	2.15	0.46
45:MD:28:HIS:NE2	45:MD:241:ARG:HD2	2.31	0.46
44:ME:184:PRO:C	44:ME:188:ILE:HG12	2.35	0.46
45:MF:116:VAL:O	45:MF:120:VAL:N	2.29	0.46
45:MF:173:PRO:CD	45:MF:380:ARG:HD3	2.45	0.46
44:MG:238:LEU:HG	44:MG:255:PHE:HE2	1.81	0.46
44:MI:80:THR:HG22	44:MI:80:THR:O	2.15	0.46
44:MI:184:PRO:HG2	44:MI:398:MET:HE1	1.97	0.46
44:MI:305:CYS:O	44:MI:307:PRO:HD3	2.16	0.46
44:MK:195:LEU:HD12	44:MK:266:HIS:CE1	2.51	0.46
44:MK:276:ILE:HD11	44:MK:371:VAL:CG1	2.45	0.46
44:MM:19:ALA:HA	44:MM:22:GLU:OE1	2.16	0.46
44:MM:98:ASP:OD1	44:MM:99:ALA:N	2.49	0.46
44:MM:328:VAL:O	44:MM:332:ILE:HG12	2.15	0.46
44:NA:70:LEU:HD13	44:NA:110:ILE:HD12	1.98	0.46
44:NA:74:VAL:O	44:NA:77:GLU:HB3	2.15	0.46
44:NA:315:CYS:N	44:NA:350:GLY:O	2.49	0.46
45:NB:136:THR:HG21	45:NB:233:MET:HE1	1.98	0.46
45:NB:386:THR:HG23	45:NB:387:ALA:N	2.31	0.46
44:NE:271:SER:OG	44:NE:301:MET:HA	2.16	0.46
45:NF:406:MET:HA	45:NF:409:THR:HG22	1.97	0.46
44:NG:236:SER:O	44:NG:240:ALA:HB2	2.16	0.46
45:NH:213:ARG:HD3	45:NH:297:LYS:HZ2	1.79	0.46
44:NI:183:GLU:HG2	44:NI:184:PRO:N	2.29	0.46
44:NI:303:ALA:O	44:NI:305:CYS:N	2.45	0.46
45:NJ:286:VAL:HG11	45:NJ:325:GLU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:345:ILE:O	45:NJ:345:ILE:HG23	2.16	0.46
44:NK:3:GLU:OE1	44:NK:131:GLY:N	2.41	0.46
45:NL:52:ASN:OD1	45:NL:53:GLU:N	2.49	0.46
45:NL:163:ILE:HD12	45:NL:251:ARG:CD	2.46	0.46
44:NM:203:MET:HG2	44:NM:384:ILE:CD1	2.46	0.46
45:NN:5:VAL:HG22	45:NN:133:PHE:CD1	2.51	0.46
45:NN:374:ILE:HG22	45:NN:422:TYR:OH	2.16	0.46
44:OA:5:ILE:HG22	44:OA:6:SER:N	2.30	0.46
44:OA:102:ASN:HB3	44:OA:105:ARG:HG3	1.97	0.46
44:OA:349:THR:O	44:OA:349:THR:HG23	2.14	0.46
44:OA:392:ASP:HA	44:OA:395:PHE:HB3	1.98	0.46
45:OB:116:VAL:HG21	45:OB:151:LEU:CD1	2.46	0.46
45:OD:330:MET:SD	45:OD:349:ILE:HG21	2.56	0.46
44:OE:176:GLN:HE22	45:OF:331:LEU:HG	1.80	0.46
45:OF:251:ARG:HG2	45:OF:251:ARG:HH11	1.81	0.46
45:OF:324:LYS:HE2	45:OF:324:LYS:HB3	1.79	0.46
44:OG:88:HIS:CD2	44:OG:90:GLU:HB3	2.51	0.46
44:OG:175:PRO:HA	44:OG:390:ARG:NH1	2.31	0.46
45:OH:170:VAL:HG23	45:OH:171:PRO:HD2	1.97	0.46
45:OH:236:VAL:O	45:OH:236:VAL:HG12	2.15	0.46
44:OI:63:PRO:HD2	44:OI:86:LEU:O	2.16	0.46
44:OI:156:ARG:O	44:OI:159:VAL:HG12	2.16	0.46
45:OJ:388:MET:N	45:OJ:388:MET:SD	2.89	0.46
45:OJ:407:GLU:HA	45:OJ:410:GLU:HG2	1.98	0.46
44:OK:107:HIS:HD2	44:OK:151:SER:OG	1.99	0.46
44:OK:248:LEU:HD11	45:ON:222:TYR:CZ	2.51	0.46
44:OK:333:ALA:HA	44:OK:336:LYS:HE2	1.97	0.46
45:ON:258:ILE:HG13	45:ON:266:PHE:CZ	2.51	0.46
44:PA:93:ILE:HD12	44:PA:93:ILE:H	1.80	0.46
44:PA:138:PHE:CD2	44:PA:169:PHE:HB2	2.51	0.46
44:PA:254:GLU:OE2	45:PD:98:GLY:HA2	2.15	0.46
45:PB:1:MET:SD	45:PB:2:ARG:HB3	2.55	0.46
45:PB:8:GLN:HG3	45:PB:14:ASN:OD1	2.16	0.46
44:PE:345:ASP:HB2	44:PE:438:GLU:HG3	1.98	0.46
44:PG:71:GLU:OE1	44:PG:73:THR:N	2.45	0.46
45:PH:141:GLY:HA3	48:PH:501:GDP:PB	2.55	0.46
45:PH:370:ASN:OD1	45:PH:422:TYR:OH	2.33	0.46
44:PI:312:TYR:CD1	44:PI:381:SER:HB2	2.51	0.46
44:PI:324:VAL:CG1	44:PI:326:LYS:HG3	2.45	0.46
44:PI:352:LYS:CD	45:PL:178:THR:HA	2.45	0.46
44:PK:223:THR:O	44:PK:226:ASN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:6:SER:HA	44:PM:136:LEU:O	2.16	0.46
44:QA:21:TRP:HA	44:QA:24:PHE:HD2	1.81	0.46
44:QA:246:GLY:HA2	44:QA:357:TYR:CZ	2.50	0.46
45:QB:252:LYS:HA	44:QC:100:ALA:HB1	1.97	0.46
45:QB:263:LEU:HD12	45:QB:263:LEU:N	2.31	0.46
45:QB:322:SER:HB3	44:QC:221:ARG:NE	2.31	0.46
45:QB:382:ALA:HB2	45:QB:415:MET:CE	2.46	0.46
44:QC:101:ASN:HA	46:QC:501:GTP:O2G	2.16	0.46
44:QC:103:PHE:HE2	44:QC:147:SER:C	2.18	0.46
44:QC:166:LYS:HD3	44:QC:197:HIS:O	2.16	0.46
44:QC:166:LYS:HG2	44:QC:199:ASP:OD2	2.15	0.46
44:QE:260:VAL:O	44:QE:260:VAL:HG12	2.14	0.46
45:QF:105:HIS:CE1	45:QF:150:LEU:HD12	2.51	0.46
45:QH:238:CYS:HA	45:QH:241:ARG:NH2	2.31	0.46
44:QI:210:TYR:CZ	44:QI:227:LEU:HD11	2.50	0.46
45:QJ:403:MET:HA	45:QJ:403:MET:CE	2.45	0.46
44:QK:10:GLY:O	44:QK:13:GLY:N	2.47	0.46
44:QK:225:THR:HA	44:QK:228:ASN:HD22	1.81	0.46
44:QK:247:ALA:CB	44:QK:355:ILE:HG21	2.44	0.46
44:QM:320:ARG:HA	44:QM:356:ASN:HB2	1.97	0.46
45:QN:222:TYR:O	45:QN:226:ASN:N	2.29	0.46
45:RB:117:LEU:HD21	45:RB:154:LYS:HE3	1.98	0.46
44:RC:2:ARG:O	44:RC:2:ARG:HG3	2.15	0.46
44:RE:115:VAL:HG22	44:RE:119:LEU:HD23	1.98	0.46
44:RE:212:ILE:O	44:RE:216:ASN:HB2	2.16	0.46
44:RE:399:TYR:HE1	44:RE:418:PHE:CB	2.29	0.46
45:RF:7:ILE:HG12	45:RF:64:ILE:CG1	2.45	0.46
45:RF:416:ASN:O	45:RF:419:VAL:N	2.49	0.46
44:RG:104:ALA:HA	44:RG:413:MET:SD	2.56	0.46
44:RG:165:SER:HA	44:RG:199:ASP:OD2	2.16	0.46
45:RH:21:TRP:O	45:RH:25:SER:HB2	2.15	0.46
45:RH:391:ARG:O	45:RH:392:LYS:HG2	2.16	0.46
44:RI:287:SER:HA	44:RI:373:ARG:HH21	1.79	0.46
45:RJ:348:ASN:C	45:RJ:349:ILE:HG13	2.36	0.46
44:RK:187:SER:O	44:RK:191:THR:N	2.35	0.46
45:RL:268:ILE:HG22	45:RL:368:VAL:CA	2.35	0.46
45:RL:314:SER:OG	45:RL:350:LYS:HB3	2.16	0.46
45:RL:398:TYR:HB3	45:RL:403:MET:SD	2.56	0.46
44:RM:247:ALA:HB1	45:RN:222:TYR:CD2	2.51	0.46
44:RM:318:MET:O	44:RM:375:VAL:HG23	2.16	0.46
46:RM:501:GTP:H4'	46:RM:501:GTP:O2B	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:48:ALA:O	44:SA:51:THR:HG22	2.16	0.46
45:SB:193:VAL:O	45:SB:264:HIS:NE2	2.48	0.46
45:SB:323:THR:HG22	45:SB:353:ILE:HG12	1.98	0.46
45:SB:385:PHE:CE2	45:SB:412:GLU:HB2	2.49	0.46
44:SC:223:THR:HG23	44:SC:225:THR:HG23	1.97	0.46
45:SD:259:PRO:O	44:SE:406:HIS:NE2	2.27	0.46
44:SE:12:GLY:N	46:SE:501:GTP:O2A	2.49	0.46
44:SE:52:PHE:HE2	44:SE:243:ARG:NH2	2.14	0.46
44:SE:331:SER:O	44:SE:335:ILE:HD12	2.16	0.46
44:SE:399:TYR:CE1	44:SE:418:PHE:HB3	2.51	0.46
44:SG:278:ALA:N	44:SG:369:ALA:HB2	2.31	0.46
44:SG:346:TRP:HE3	44:SG:346:TRP:O	1.99	0.46
44:SI:288:VAL:HA	44:SI:291:ILE:CG1	2.43	0.46
44:SK:219:ILE:HD11	44:SK:367:ASP:OD1	2.15	0.46
44:SK:298:PRO:HA	44:SK:301:MET:HE3	1.98	0.46
44:SK:324:VAL:HG11	44:SK:326:LYS:HZ2	1.80	0.46
44:SK:340:THR:HG23	44:SK:341:ILE:HG13	1.97	0.46
44:SM:78:VAL:HG13	44:SM:87:PHE:CE2	2.51	0.46
44:SM:320:ARG:HA	44:SM:356:ASN:CB	2.44	0.46
44:TA:135:PHE:HD2	44:TA:165:SER:O	1.98	0.46
45:TB:101:TRP:HB3	45:TB:398:TYR:HE1	1.81	0.46
45:TB:417:ASP:OD1	45:TB:421:GLU:HG3	2.15	0.46
44:TC:84:ARG:NH1	44:TC:85:GLN:CG	2.72	0.46
44:TC:290:GLU:HG3	44:TC:291:ILE:N	2.31	0.46
45:TD:113:ILE:HD13	45:TD:154:LYS:HE2	1.97	0.46
44:TE:15:GLN:O	44:TE:18:ASN:HB2	2.16	0.46
44:TE:95:GLY:HA2	44:TE:114:ILE:HD11	1.98	0.46
44:TE:209:ILE:CG2	44:TE:227:LEU:HD22	2.38	0.46
44:TE:315:CYS:HA	44:TE:379:SER:HB3	1.98	0.46
44:TE:331:SER:O	44:TE:334:THR:HB	2.15	0.46
45:TF:256:ASN:HD22	45:TF:350:LYS:NZ	2.14	0.46
45:TF:325:GLU:HG3	45:TF:328:GLU:OE2	2.15	0.46
45:TF:377:MET:O	45:TF:380:ARG:HG2	2.15	0.46
45:TF:414:ASN:OD1	45:TF:415:MET:N	2.48	0.46
44:TG:62:VAL:HG21	44:UG:283:HIS:HB3	1.98	0.46
44:TG:90:GLU:HB3	44:UG:280:LYS:CE	2.46	0.46
44:TG:103:PHE:HB3	44:TG:408:TYR:CE2	2.51	0.46
44:TG:205:ASP:OD2	44:TG:304:LYS:HB3	2.16	0.46
44:TG:212:ILE:HD11	44:TG:300:ASN:O	2.16	0.46
45:TH:23:VAL:HG21	45:TH:230:SER:HB3	1.98	0.46
45:TH:83:GLN:O	45:UH:281:TYR:OH	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:104:ALA:HB1	44:TI:411:GLU:CB	2.45	0.46
44:TI:141:VAL:CG2	44:TI:187:SER:HA	2.45	0.46
44:TI:224:TYR:HB3	46:TI:501:GTP:O6	2.16	0.46
44:TI:437:ILE:HG13	44:TI:437:ILE:O	2.15	0.46
45:TJ:42:LEU:HA	45:TJ:45:GLU:HG3	1.98	0.46
44:TK:2:ARG:CD	44:TK:242:LEU:HD22	2.41	0.46
44:TK:5:ILE:HG22	44:TK:7:ILE:HD11	1.98	0.46
45:TL:306:ARG:HA	45:TL:340:TYR:CE1	2.51	0.46
44:TM:26:LEU:O	44:TM:26:LEU:HD12	2.16	0.46
44:TM:31:GLN:O	44:TM:34:GLY:N	2.46	0.46
44:TM:137:VAL:HG11	44:TM:154:LEU:HD21	1.98	0.46
44:TM:276:ILE:HG23	44:TM:281:ALA:CB	2.45	0.46
44:TM:315:CYS:HA	44:TM:378:ILE:O	2.16	0.46
45:TN:27:GLU:HG2	45:TN:241:ARG:NH1	2.31	0.46
44:UA:262:TYR:HB3	44:UA:263:PRO:HD2	1.98	0.46
45:UB:52:ASN:OD1	45:UB:62:ARG:NH2	2.49	0.46
45:UB:175:VAL:O	45:UB:175:VAL:HG23	2.15	0.46
45:UB:246:LEU:HD11	44:UC:224:TYR:HE2	1.81	0.46
44:UC:115:VAL:HB	44:UC:152:LEU:HD23	1.97	0.46
44:UE:387:VAL:HG12	44:UE:390:ARG:HH11	1.80	0.46
45:UF:49:VAL:CG2	45:UF:241:ARG:HG2	2.43	0.46
45:UF:197:ASP:O	45:UF:264:HIS:HB2	2.16	0.46
44:UG:4:VAL:HG13	44:UG:52:PHE:HE1	1.81	0.46
44:UG:173:PRO:CD	44:UG:391:LEU:HD21	2.46	0.46
45:UH:4:ILE:HD12	45:UH:133:PHE:CA	2.46	0.46
44:UI:169:PHE:HE2	44:UI:235:ILE:CD1	2.28	0.46
45:UJ:49:VAL:CB	45:UJ:241:ARG:HG2	2.46	0.46
45:UJ:64:ILE:HD11	45:UJ:123:GLU:HG3	1.97	0.46
45:UJ:211:CYS:HA	45:UJ:215:LEU:HD12	1.97	0.46
45:UJ:350:LYS:CG	45:UJ:351:SER:N	2.78	0.46
44:UK:326:LYS:HG3	44:UK:327:ASP:N	2.30	0.46
45:UL:99:ASN:HA	45:UL:142:GLY:HA3	1.97	0.46
45:UL:315:ALA:HB3	45:UL:351:SER:OG	2.16	0.46
44:UM:284:GLU:HG3	44:UM:286:LEU:CD2	2.36	0.46
44:UM:346:TRP:O	45:UN:388:MET:HG2	2.16	0.46
45:UN:44:LEU:CD2	45:UN:47:ILE:HD13	2.46	0.46
44:VA:276:ILE:H	44:VA:368:LEU:CD1	2.29	0.46
45:VB:105:HIS:ND1	45:VB:105:HIS:O	2.49	0.46
44:VC:26:LEU:HD23	44:VC:363:VAL:HA	1.98	0.46
44:VC:186:ASN:O	44:VC:190:SER:HB3	2.16	0.46
44:VC:209:ILE:HG12	44:VC:302:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:276:ILE:HD11	44:VC:280:LYS:CG	2.42	0.46
44:VE:99:ALA:HB3	44:VE:145:THR:HB	1.97	0.46
44:VE:387:VAL:HG23	44:VE:388:PHE:N	2.31	0.46
45:VF:233:MET:HA	45:VF:233:MET:CE	2.46	0.46
44:VG:208:ALA:O	44:VG:211:ASP:HB2	2.16	0.46
45:VH:100:ASN:ND2	45:VH:397:TRP:HE3	2.14	0.46
45:VH:203:ASP:OD2	45:VH:301:CYS:HA	2.15	0.46
45:VH:316:LEU:HB2	45:VH:366:THR:CG2	2.46	0.46
45:VH:413:SER:O	45:VH:417:ASP:N	2.40	0.46
45:VJ:192:LEU:O	45:VJ:196:ALA:HB3	2.15	0.46
45:VJ:349:ILE:O	45:VJ:349:ILE:HG23	2.16	0.46
44:VK:38:SER:O	44:VK:42:ILE:HG13	2.16	0.46
45:VL:22:GLU:HG2	45:VL:81:PHE:CG	2.51	0.46
45:VL:109:GLY:HA2	45:VL:147:MET:HE3	1.97	0.46
44:VM:141:VAL:HG12	44:VM:171:ILE:O	2.16	0.46
44:VM:181:VAL:HG21	45:VN:256:ASN:O	2.16	0.46
44:VM:320:ARG:CG	44:VM:360:PRO:HG3	2.46	0.46
44:VM:344:VAL:HG12	44:VM:347:CYS:HB3	1.97	0.46
45:VN:244:GLY:HA3	45:VN:354:CYS:HA	1.98	0.46
44:WA:166:LYS:N	44:WA:199:ASP:OD2	2.41	0.46
44:WA:181:VAL:HG22	45:WB:256:ASN:CB	2.45	0.46
44:WA:257:THR:HA	45:WD:397:TRP:CZ3	2.50	0.46
45:WB:274:THR:CB	45:WB:282:ARG:HD3	2.46	0.46
45:WB:321:MET:HA	45:WB:321:MET:HE1	1.97	0.46
44:WC:179:THR:HG23	45:WD:351:SER:HB2	1.98	0.46
44:WC:221:ARG:NH1	45:WD:286:VAL:HG21	2.24	0.46
44:WE:270:SER:HB2	44:WE:377:MET:O	2.15	0.46
45:WF:262:ARG:HG3	45:WF:263:LEU:CD1	2.41	0.46
44:WG:260:VAL:HG23	44:WG:260:VAL:O	2.16	0.46
44:WG:326:LYS:O	44:WG:329:ASN:HB2	2.15	0.46
45:WH:67:ASP:HB2	45:WH:73:MET:CE	2.46	0.46
45:WH:105:HIS:ND1	45:WH:150:LEU:HD12	2.31	0.46
44:WI:195:LEU:HD23	44:WI:196:GLU:OE2	2.15	0.46
44:WI:387:VAL:O	44:WI:390:ARG:HG3	2.16	0.46
45:WJ:210:ILE:HD13	45:WJ:300:MET:HE1	1.98	0.46
44:WK:88:HIS:ND1	44:WK:89:PRO:HD2	2.31	0.46
45:WL:173:PRO:HD3	45:WL:380:ARG:HD3	1.98	0.46
45:WL:341:PHE:HB3	45:WL:348:ASN:HD21	1.80	0.46
44:WM:182:VAL:HG22	44:WM:182:VAL:O	2.15	0.46
44:WM:210:TYR:HE1	44:WM:227:LEU:HD11	1.79	0.46
44:WM:304:LYS:HZ2	44:WM:390:ARG:NH1	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0H:362:LEU:HD23	44:HM:370:LYS:HD3	1.96	0.46
18:1F:45:VAL:HG13	44:GK:85:GLN:CG	2.40	0.46
9:1H:326:PHE:CE2	45:HD:362:LYS:HG3	2.50	0.46
21:1K:42:GLU:OE2	45:KF:212:PHE:HB2	2.14	0.46
26:1R:464:LEU:N	45:ED:78:ALA:HB1	2.30	0.46
15:1V:38:PHE:CE1	45:MJ:328:GLU:HB3	2.50	0.46
27:1W:61:LYS:HE2	45:LH:361:LEU:HD12	1.97	0.46
27:1W:189:ARG:CZ	44:LA:45:GLY:HA2	2.46	0.46
32:2I:95:LYS:HE2	45:GF:336:LYS:HD2	1.98	0.46
25:2P:381:PHE:CE2	44:TM:372:MET:HB3	2.50	0.46
26:2R:407:PHE:CG	44:DG:58:ALA:HB3	2.50	0.46
26:3R:407:PHE:HB3	44:DK:58:ALA:HB2	1.95	0.46
15:3V:117:PRO:CG	45:LD:392:LYS:HD2	2.46	0.46
16:4X:2:LYS:HB2	45:LL:75:SER:HB2	1.98	0.46
37:5D:34:PHE:CZ	44:KK:429:GLU:C	2.90	0.46
37:5D:41:SER:N	45:KN:394:PHE:HZ	2.13	0.46
38:5G:96:TYR:N	38:5G:100:VAL:HG22	2.31	0.46
38:5H:81:MET:HG2	38:5H:96:TYR:CE2	2.40	0.46
11:5Q:167:PHE:HB3	11:5Q:169:ASP:OD1	2.16	0.46
35:5R:248:TYR:CE2	44:CI:370:LYS:NZ	2.84	0.46
35:5R:259:ASN:HB2	35:5R:350:PHE:CE2	2.51	0.46
36:5S:183:TYR:O	36:5S:187:LEU:HB2	2.16	0.46
41:6G:282:PHE:CD1	41:6G:285:MET:HE1	2.51	0.46
41:6G:306:GLU:OE1	45:VB:296:ALA:HB3	2.16	0.46
11:6Q:57:ASN:HB2	11:6Q:158:ALA:HB2	1.98	0.46
35:6R:121:TYR:OH	44:AM:44:GLY:CA	2.57	0.46
35:6R:121:TYR:HH	44:AM:44:GLY:HA3	1.77	0.46
35:6R:288:LYS:NZ	44:CM:44:GLY:H	2.13	0.46
35:7R:538:PHE:CE2	35:7R:578:TYR:HB2	2.51	0.46
35:7R:564:ILE:HG13	35:7R:565:ASP:N	2.31	0.46
44:AA:185:TYR:O	44:AA:189:LEU:HD13	2.15	0.46
45:AB:3:GLU:CG	45:AB:127:CYS:HB2	2.46	0.46
44:AC:93:ILE:HD12	44:AC:93:ILE:H	1.81	0.46
45:AD:341:PHE:HB3	45:AD:348:ASN:ND2	2.21	0.46
45:AD:372:THR:HA	45:AD:422:TYR:CE2	2.51	0.46
44:AE:221:ARG:NH2	45:AF:321:MET:HA	2.31	0.46
44:AE:363:VAL:HG13	44:AE:363:VAL:O	2.15	0.46
44:AG:372:MET:HB3	44:AG:373:ARG:CD	2.42	0.46
45:AH:192:LEU:HD21	45:AH:199:CYS:SG	2.56	0.46
45:AH:299:MET:HE3	45:AH:299:MET:HB3	1.77	0.46
44:AK:103:PHE:H	44:AK:408:TYR:HE1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:169:PHE:HZ	44:AK:238:LEU:HD13	1.80	0.46
44:AK:224:TYR:HE2	45:AL:246:LEU:CD1	2.29	0.46
45:AL:54:ALA:HA	45:BL:283:ALA:CB	2.46	0.46
45:AL:149:THR:OG1	45:AL:191:GLN:HG2	2.16	0.46
45:AL:317:PHE:CE1	45:AL:326:VAL:HG13	2.51	0.46
44:AM:105:ARG:NH1	45:AN:251:ARG:HD3	2.30	0.46
45:AN:389:PHE:HE1	45:AN:395:LEU:HD22	1.81	0.46
45:BD:172:SER:OG	45:BD:175:VAL:HG22	2.15	0.46
45:BD:303:ALA:CB	45:BD:376:GLU:HB3	2.46	0.46
45:BD:405:GLU:HA	45:BD:408:PHE:HD2	1.81	0.46
44:BE:241:SER:OG	44:BE:250:VAL:O	2.23	0.46
45:BF:50:TYR:OH	45:BF:237:THR:HG21	2.16	0.46
45:BF:145:SER:OG	45:BF:188:SER:HB2	2.16	0.46
45:BF:318:ARG:HH11	45:BF:358:PRO:HG3	1.81	0.46
44:BG:2:ARG:HD3	44:BG:242:LEU:HB3	1.98	0.46
44:BG:88:HIS:HE1	44:BG:90:GLU:HG2	1.81	0.46
45:BH:3:GLU:HB3	45:BH:49:VAL:HA	1.98	0.46
45:BH:152:ILE:HD12	45:BH:164:MET:HE3	1.97	0.46
45:BJ:137:HIS:CD2	45:BJ:168:SER:HG	2.33	0.46
45:BJ:352:SER:C	45:BJ:353:ILE:HD12	2.37	0.46
45:BJ:374:ILE:HD11	45:BJ:422:TYR:CZ	2.50	0.46
44:BK:56:THR:OG1	44:CK:282:TYR:O	2.25	0.46
44:BK:174:SER:HB3	44:BK:175:PRO:HD2	1.96	0.46
44:BK:396:ASP:OD1	44:BK:422:ARG:NH1	2.49	0.46
45:BL:65:LEU:HD22	45:BL:90:PHE:HE1	1.80	0.46
45:BN:304:ASP:OD1	45:BN:306:ARG:HG2	2.16	0.46
44:CA:289:ALA:O	44:CA:292:THR:HG22	2.16	0.46
44:CC:347:CYS:HA	45:CD:388:MET:HE1	1.98	0.46
45:CD:198:GLU:HG2	45:CD:266:PHE:CE2	2.51	0.46
45:CD:248:SER:OG	45:CD:252:LYS:CE	2.64	0.46
44:CE:145:THR:HG22	46:CE:501:GTP:O1B	2.16	0.46
45:CF:167:PHE:HE1	45:CF:200:MET:CE	2.29	0.46
45:CF:350:LYS:HA	44:CG:179:THR:O	2.15	0.46
44:CG:66:VAL:CG1	44:CG:122:ILE:HD11	2.42	0.46
44:CI:390:ARG:HG3	44:CI:391:LEU:H	1.81	0.46
44:CM:89:PRO:HB3	44:DM:280:LYS:HD2	1.97	0.46
44:CM:315:CYS:O	44:CM:351:PHE:HA	2.16	0.46
45:CN:113:ILE:O	45:CN:116:VAL:HG12	2.15	0.46
45:CN:396:HIS:CA	45:CN:399:THR:HG22	2.44	0.46
44:DA:5:ILE:HD12	44:DA:135:PHE:CE1	2.51	0.46
44:DC:229:ARG:HG2	44:DC:229:ARG:HH11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DE:88:HIS:ND1	44:DE:89:PRO:HD2	2.31	0.46
44:DE:317:MET:CE	44:DE:332:ILE:HD11	2.46	0.46
44:DE:362:VAL:HG13	44:DE:362:VAL:O	2.16	0.46
44:DG:141:VAL:HG11	44:DG:172:TYR:CD1	2.49	0.46
44:DG:345:ASP:HB2	44:DG:438:GLU:HG2	1.98	0.46
44:DG:349:THR:CG2	45:DH:179:VAL:HA	2.40	0.46
44:DI:356:ASN:OD1	44:DI:357:TYR:N	2.49	0.46
44:DK:135:PHE:HB2	44:DK:166:LYS:HG2	1.98	0.46
44:DK:295:ALA:HB1	44:DK:377:MET:HE2	1.96	0.46
44:DM:237:SER:HA	44:DM:320:ARG:HH11	1.81	0.46
44:DM:344:VAL:HG21	44:DM:346:TRP:CZ3	2.50	0.46
45:EB:7:ILE:HD13	45:EB:135:ILE:HD11	1.98	0.46
45:EB:66:MET:SD	45:EB:151:LEU:HD13	2.56	0.46
44:EC:363:VAL:HG13	44:EC:363:VAL:O	2.15	0.46
45:ED:389:PHE:O	45:ED:392:LYS:N	2.45	0.46
45:EF:36:TYR:CE1	45:EF:44:LEU:HD21	2.50	0.46
45:EF:204:ASN:OD1	45:EF:205:GLU:N	2.50	0.46
44:EG:175:PRO:HG2	44:EG:304:LYS:CB	2.46	0.46
45:EH:248:SER:HB2	45:EH:253:LEU:CD1	2.45	0.46
44:EI:291:ILE:HG13	44:EI:292:THR:H	1.80	0.46
45:EJ:66:MET:SD	45:EJ:116:VAL:HG21	2.56	0.46
45:EJ:247:ASN:OD1	45:EJ:252:LYS:NZ	2.43	0.46
45:EJ:318:ARG:NH2	45:EJ:356:ILE:O	2.49	0.46
44:EK:90:GLU:N	44:FI:280:LYS:NZ	2.64	0.46
44:EK:318:MET:O	44:EK:375:VAL:HG23	2.16	0.46
45:EL:65:LEU:HB2	45:EL:90:PHE:CD1	2.51	0.46
44:EM:106:GLY:O	44:EM:149:LEU:HD22	2.16	0.46
44:EM:238:LEU:O	44:EM:238:LEU:HD23	2.15	0.46
45:EN:21:TRP:CZ3	45:EN:50:TYR:HB3	2.50	0.46
45:EN:166:THR:HG21	45:EN:192:LEU:HD11	1.97	0.46
45:FB:4:ILE:HG22	45:FB:131:GLN:HB3	1.97	0.46
45:FB:52:ASN:N	45:FB:60:VAL:O	2.42	0.46
44:FC:69:ASP:CG	44:FC:71:GLU:H	2.17	0.46
44:FC:221:ARG:HA	45:FD:324:LYS:HD3	1.98	0.46
44:FC:224:TYR:HE2	45:FD:246:LEU:HD21	1.80	0.46
45:FD:6:HIS:O	45:FD:7:ILE:HG13	2.15	0.46
45:FD:113:ILE:HG12	45:FD:154:LYS:NZ	2.31	0.46
44:FE:250:VAL:HG22	44:FE:255:PHE:CE1	2.51	0.46
45:FF:395:LEU:HG	45:FF:399:THR:HG23	1.97	0.46
44:FG:242:LEU:HD21	44:FG:251:ASP:CB	2.46	0.46
45:FH:252:LYS:HD3	45:FH:350:LYS:CE	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FJ:60:VAL:O	45:FJ:60:VAL:HG13	2.16	0.46
45:FJ:101:TRP:HB3	45:FJ:398:TYR:HE1	1.81	0.46
44:FK:47:ASP:CG	44:FK:50:ASN:HB2	2.36	0.46
45:FL:180:VAL:HG21	45:FL:398:TYR:OH	2.16	0.46
45:FN:318:ARG:C	45:FN:357:PRO:HB3	2.36	0.46
44:GA:6:SER:HA	44:GA:136:LEU:HB2	1.97	0.46
44:GA:32:PRO:HB3	44:GA:83:TYR:CE1	2.51	0.46
44:GA:164:LYS:HD2	44:GA:165:SER:N	2.27	0.46
44:GA:229:ARG:NH1	44:GA:363:VAL:HG11	2.31	0.46
45:GB:237:THR:OG1	45:GB:240:LEU:HD21	2.16	0.46
45:GB:317:PHE:N	45:GB:352:SER:O	2.49	0.46
44:GC:320:ARG:HG2	44:GC:356:ASN:HB3	1.96	0.46
44:GC:344:VAL:HG12	44:GC:347:CYS:HB3	1.98	0.46
45:GD:20:PHE:HA	45:GD:230:SER:OG	2.16	0.46
45:GD:134:GLN:HG3	45:GD:134:GLN:O	2.15	0.46
45:GD:245:GLN:HA	45:GD:245:GLN:OE1	2.16	0.46
45:GD:391:ARG:HD2	45:GD:391:ARG:HA	1.78	0.46
44:GE:85:GLN:O	44:GE:85:GLN:HG3	2.15	0.46
44:GE:182:VAL:O	44:GE:182:VAL:HG22	2.15	0.46
44:GE:208:ALA:HB3	44:GE:302:MET:O	2.16	0.46
45:GF:2:ARG:CA	45:GF:131:GLN:HG2	2.45	0.46
45:GF:84:LEU:O	45:GF:86:ARG:HD3	2.16	0.46
45:GF:187:LEU:HD11	45:GF:408:PHE:CZ	2.51	0.46
44:GG:99:ALA:HB3	44:GG:145:THR:HB	1.97	0.46
44:GG:172:TYR:HB2	44:GG:203:MET:SD	2.55	0.46
44:GG:177:VAL:CG2	45:GH:331:LEU:HD22	2.45	0.46
45:GH:61:PRO:HG3	45:GH:84:LEU:HB3	1.98	0.46
44:GI:221:ARG:HG3	45:GJ:322:SER:HB3	1.96	0.46
45:GJ:84:LEU:O	45:GJ:86:ARG:NH1	2.49	0.46
44:GK:221:ARG:HH22	45:GL:321:MET:HB2	1.80	0.46
44:GK:276:ILE:HG23	44:GK:281:ALA:HB2	1.98	0.46
45:GL:42:LEU:HA	45:GL:45:GLU:CG	2.46	0.46
44:GM:115:VAL:HG23	44:GM:153:LEU:HD23	1.98	0.46
44:GM:161:TYR:CG	44:GM:164:LYS:HG3	2.51	0.46
45:GN:143:THR:OG1	45:GN:147:MET:HE1	2.16	0.46
45:GN:214:THR:HG22	45:GN:297:LYS:NZ	2.31	0.46
44:HA:407:TRP:HH2	45:HB:258:ILE:HB	1.76	0.46
45:HB:208:TYR:O	45:HB:212:PHE:HB2	2.16	0.46
45:HB:215:LEU:HB2	45:HB:217:LEU:HD22	1.96	0.46
45:HB:260:PHE:HB2	45:HB:263:LEU:HD13	1.97	0.46
45:HB:272:PRO:HD2	45:HB:364:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:290:THR:HG21	45:HB:329:GLN:OE1	2.15	0.46
45:HD:167:PHE:HE1	45:HD:200:MET:SD	2.39	0.46
45:HD:267:MET:O	45:HD:368:VAL:HA	2.16	0.46
44:HE:141:VAL:HG11	44:HE:190:SER:OG	2.15	0.46
44:HE:291:ILE:HG13	44:HE:292:THR:H	1.81	0.46
44:HE:390:ARG:HG3	44:HE:391:LEU:N	2.31	0.46
45:HF:123:GLU:OE1	45:HF:123:GLU:HA	2.14	0.46
45:HF:141:GLY:HA3	48:HF:502:GDP:PA	2.56	0.46
45:HF:208:TYR:O	45:HF:212:PHE:HD2	1.99	0.46
44:HG:23:LEU:CD2	44:HG:236:SER:HB2	2.46	0.46
44:HG:311:LYS:NZ	44:HG:342:GLN:HG3	2.31	0.46
45:HH:132:GLY:HA2	45:HH:162:ARG:CG	2.46	0.46
44:HI:11:GLN:HG3	46:HI:501:GTP:C8	2.51	0.46
45:HJ:141:GLY:HA3	48:HJ:501:GDP:PA	2.56	0.46
45:HL:337:ASN:HB3	45:HL:340:TYR:HB2	1.98	0.46
45:HL:375:GLN:HE21	45:HL:419:VAL:CG1	2.29	0.46
44:HM:165:SER:HA	44:HM:199:ASP:OD2	2.16	0.46
45:HN:293:MET:HE3	45:HN:294:PHE:HE1	1.81	0.46
44:IA:137:VAL:HG12	44:IA:167:LEU:O	2.15	0.46
44:IA:268:MET:CE	44:IA:378:ILE:HG23	2.42	0.46
44:IA:271:SER:CA	44:IA:302:MET:HE2	2.45	0.46
44:IA:398:MET:O	44:IA:402:ARG:N	2.48	0.46
45:IB:248:SER:CB	45:IB:252:LYS:HD2	2.46	0.46
45:IB:342:VAL:HG21	45:IB:344:TRP:NE1	2.31	0.46
44:IC:221:ARG:NE	45:ID:325:GLU:HG2	2.31	0.46
44:IC:288:VAL:HA	44:IC:373:ARG:HD2	1.97	0.46
44:IE:250:VAL:CG1	44:IE:255:PHE:HE1	2.27	0.46
44:IE:301:MET:HA	44:IE:301:MET:HE2	1.98	0.46
45:IF:86:ARG:HH21	45:IF:87:PRO:HD2	1.81	0.46
45:IF:158:GLU:O	45:IF:159:TYR:HD1	2.00	0.46
44:IG:135:PHE:CE1	44:IG:157:LEU:HD13	2.51	0.46
44:IG:210:TYR:CE1	44:IG:227:LEU:HD21	2.51	0.46
44:IG:258:ASN:O	44:IG:259:LEU:HD23	2.16	0.46
45:IH:192:LEU:CD1	45:IH:196:ALA:HB2	2.46	0.46
44:II:205:ASP:CG	44:II:304:LYS:H	2.20	0.46
44:II:305:CYS:O	44:II:307:PRO:HD3	2.16	0.46
45:IJ:19:LYS:HD2	45:IJ:227:HIS:ND1	2.31	0.46
45:IJ:106:TYR:CD2	45:IJ:403:MET:CE	2.99	0.46
45:IL:187:LEU:HD21	45:IL:408:PHE:CE1	2.51	0.46
44:IM:80:THR:C	44:IM:84:ARG:HD2	2.36	0.46
44:IM:138:PHE:HE1	44:IM:169:PHE:CD2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:49:VAL:HG11	45:IN:240:LEU:CD2	2.42	0.46
45:IN:105:HIS:CE1	45:IN:150:LEU:HD21	2.51	0.46
45:IN:141:GLY:HA2	48:IN:501:GDP:O1A	2.16	0.46
44:JA:145:THR:HG22	46:JA:501:GTP:PB	2.55	0.46
44:JA:339:ARG:O	44:JA:339:ARG:HG3	2.16	0.46
44:JA:345:ASP:OD1	44:JA:346:TRP:N	2.48	0.46
44:JE:326:LYS:HZ3	45:JH:225:LEU:HD21	1.81	0.46
45:JF:208:TYR:O	45:JF:209:ASP:C	2.55	0.46
44:JG:101:ASN:HA	44:JG:144:GLY:H	1.80	0.46
44:JG:141:VAL:O	44:JG:141:VAL:HG22	2.16	0.46
44:JG:344:VAL:HG22	44:JG:345:ASP:N	2.30	0.46
44:JG:407:TRP:HZ2	45:JH:258:ILE:HD11	1.80	0.46
45:JH:43:GLN:HG3	45:JH:43:GLN:O	2.15	0.46
45:JH:200:MET:HB2	45:JH:268:ILE:HG23	1.96	0.46
45:JH:257:LEU:HD11	45:JH:314:SER:OG	2.16	0.46
45:JJ:86:ARG:HH21	45:JJ:89:ASN:ND2	2.12	0.46
44:JK:170:THR:O	44:JK:171:ILE:HD13	2.15	0.46
44:JK:175:PRO:HG2	44:JK:304:LYS:CG	2.46	0.46
44:JK:177:VAL:O	44:JK:177:VAL:HG12	2.15	0.46
44:JK:205:ASP:CG	44:JK:303:ALA:HA	2.36	0.46
44:JK:315:CYS:HB2	44:JK:350:GLY:O	2.16	0.46
45:JL:64:ILE:C	45:JL:65:LEU:HD12	2.36	0.46
44:JM:140:SER:OG	44:JM:143:GLY:HA3	2.15	0.46
44:JM:248:LEU:H	44:JM:355:ILE:CG1	2.29	0.46
44:JM:276:ILE:HD11	44:JM:280:LYS:CD	2.29	0.46
44:JM:404:PHE:CE1	45:JN:258:ILE:O	2.69	0.46
44:JM:406:HIS:HA	44:JM:409:VAL:CG1	2.44	0.46
45:JN:200:MET:O	45:JN:200:MET:HG2	2.15	0.46
44:KA:100:ALA:HB1	45:KB:252:LYS:CA	2.42	0.46
44:KA:178:SER:OG	44:KA:183:GLU:OE2	2.31	0.46
44:KA:392:ASP:OD1	44:KA:422:ARG:NE	2.49	0.46
44:KC:324:VAL:HG13	44:KC:325:PRO:HD2	1.97	0.46
45:KF:141:GLY:O	45:KF:145:SER:HB3	2.16	0.46
45:KF:260:PHE:HB3	45:KF:261:PRO:HD2	1.97	0.46
44:KG:195:LEU:CD2	44:KG:428:LEU:HD21	2.46	0.46
44:KG:230:LEU:HD21	44:KG:368:LEU:HD21	1.98	0.46
44:KG:362:VAL:HG11	44:KG:370:LYS:HD3	1.97	0.46
45:KH:202:ILE:HD11	45:KH:268:ILE:HD11	1.97	0.46
45:KH:304:ASP:OD1	45:KH:305:PRO:HD2	2.16	0.46
44:KI:31:GLN:NE2	44:KI:37:PRO:HB3	2.29	0.46
44:KI:146:GLY:O	44:KI:150:GLY:HA3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:288:VAL:HG11	44:KI:327:ASP:CG	2.37	0.46
44:KI:430:LYS:HD3	44:KI:430:LYS:HA	1.82	0.46
45:KJ:152:ILE:HG23	45:KJ:164:MET:CE	2.46	0.46
45:KJ:201:VAL:HG21	45:KJ:377:MET:HE1	1.97	0.46
44:KK:329:ASN:ND2	45:KN:208:TYR:HE2	2.14	0.46
45:KL:2:ARG:CA	45:KL:131:GLN:HB2	2.46	0.46
45:KL:77:ARG:NE	45:KL:82:GLY:O	2.49	0.46
45:KL:251:ARG:HB3	45:KL:251:ARG:CZ	2.45	0.46
44:KM:99:ALA:HA	44:KM:110:ILE:CD1	2.46	0.46
45:KN:419:VAL:CG1	45:KN:423:GLN:HB2	2.46	0.46
45:LB:21:TRP:HZ2	45:LB:63:ALA:HB2	1.81	0.46
45:LB:165:GLU:HA	45:LB:198:GLU:HB2	1.98	0.46
45:LB:186:THR:O	45:LB:189:VAL:HG12	2.16	0.46
45:LB:314:SER:CB	45:LB:350:LYS:HB3	2.46	0.46
44:LC:145:THR:HG23	46:LC:501:GTP:O1B	2.16	0.46
44:LC:241:SER:OG	44:LC:250:VAL:O	2.21	0.46
44:LC:315:CYS:HA	44:LC:379:SER:CB	2.45	0.46
45:LD:86:ARG:HA	45:MD:281:TYR:CE2	2.49	0.46
45:LD:320:ARG:HH12	45:LD:357:PRO:HG3	1.81	0.46
45:LF:36:TYR:CZ	45:LF:44:LEU:HD11	2.51	0.46
45:LH:87:PRO:HD2	45:MH:281:TYR:HD2	1.81	0.46
45:LH:372:THR:HA	45:LH:422:TYR:HE2	1.78	0.46
44:LI:56:THR:HA	44:MI:285:GLN:CB	2.45	0.46
44:LI:104:ALA:CB	44:LI:411:GLU:HB2	2.44	0.46
44:LI:114:ILE:O	44:LI:114:ILE:HG22	2.16	0.46
44:LI:259:LEU:HD21	44:LI:316:SER:CB	2.46	0.46
45:LJ:117:LEU:HA	45:LJ:120:VAL:CG1	2.44	0.46
45:LJ:269:GLY:HA2	45:LJ:300:MET:CE	2.46	0.46
44:LK:284:GLU:H	44:LK:284:GLU:HG2	1.53	0.46
45:LL:100:ASN:ND2	45:LL:103:LYS:HG3	2.31	0.46
45:LL:342:VAL:HG22	45:LL:343:GLU:N	2.31	0.46
44:LM:326:LYS:NZ	44:LM:327:ASP:OD1	2.43	0.46
44:MA:317:MET:HE1	44:MA:377:MET:HG2	1.98	0.46
45:MB:101:TRP:NE1	45:MB:105:HIS:HB2	2.30	0.46
44:MC:340:THR:HG23	44:MC:341:ILE:HG12	1.97	0.46
44:ME:387:VAL:HG22	44:ME:433:GLU:OE2	2.15	0.46
45:MF:46:ARG:HD2	45:MF:46:ARG:N	2.31	0.46
45:MF:165:GLU:OE2	45:MF:250:LEU:HD22	2.16	0.46
44:MG:62:VAL:O	44:MG:62:VAL:HG23	2.15	0.46
44:MG:186:ASN:OD1	44:MG:187:SER:N	2.49	0.46
44:MG:339:ARG:HH11	44:MG:339:ARG:HG3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:304:ASP:CG	45:MH:306:ARG:HG2	2.36	0.46
45:MJ:91:VAL:O	45:MJ:91:VAL:HG23	2.16	0.46
45:MJ:135:ILE:HG13	45:MJ:152:ILE:CD1	2.46	0.46
44:MK:221:ARG:NH1	45:ML:322:SER:OG	2.49	0.46
44:MM:157:LEU:HB3	44:MM:161:TYR:CZ	2.51	0.46
45:MN:42:LEU:HA	45:MN:45:GLU:CG	2.34	0.46
44:NA:296:PHE:HZ	44:NA:315:CYS:SG	2.39	0.46
45:NB:234:SER:O	45:NB:318:ARG:NH2	2.49	0.46
45:NB:237:THR:O	45:NB:241:ARG:NH1	2.49	0.46
45:NB:263:LEU:HD23	45:NB:422:TYR:CE2	2.51	0.46
44:NC:34:GLY:O	44:NC:60:LYS:HA	2.15	0.46
45:ND:334:GLN:HG3	45:ND:341:PHE:CD2	2.49	0.46
45:NF:11:GLN:O	45:NF:15:GLN:HB2	2.16	0.46
45:NF:42:LEU:CD2	45:NF:356:ILE:HD11	2.43	0.46
45:NF:42:LEU:HD12	45:NF:45:GLU:CD	2.37	0.46
45:NF:97:ALA:HB3	45:NF:143:THR:CB	2.32	0.46
45:NF:284:LEU:HD23	45:NF:284:LEU:H	1.81	0.46
44:NG:99:ALA:HA	44:NG:105:ARG:CD	2.21	0.46
44:NG:182:VAL:C	44:NG:184:PRO:HD2	2.36	0.46
44:NG:289:ALA:O	44:NG:292:THR:HG22	2.16	0.46
45:NH:198:GLU:OE2	45:NH:254:ALA:HA	2.16	0.46
45:NH:257:LEU:HD21	45:NH:314:SER:CB	2.44	0.46
44:NI:113:GLU:OE1	44:NI:113:GLU:N	2.49	0.46
44:NI:224:TYR:CE2	45:NJ:323:THR:HG21	2.51	0.46
44:NK:106:GLY:O	44:NK:149:LEU:HD22	2.16	0.46
45:NL:144:GLY:O	45:NL:148:GLY:HA3	2.16	0.46
44:NM:104:ALA:HB1	44:NM:411:GLU:CB	2.44	0.46
44:NM:203:MET:CG	44:NM:303:ALA:HB2	2.45	0.46
45:NN:12:CYS:O	45:NN:16:ILE:HG23	2.15	0.46
44:OA:87:PHE:HD2	44:OA:91:GLN:HE21	1.64	0.46
44:OA:107:HIS:O	44:OA:107:HIS:ND1	2.47	0.46
44:OA:425:LEU:O	44:OA:429:GLU:HG2	2.16	0.46
45:OB:105:HIS:ND1	45:OB:105:HIS:O	2.49	0.46
45:OB:167:PHE:CE1	45:OB:200:MET:HG3	2.50	0.46
44:OC:84:ARG:NE	44:OC:85:GLN:HE22	2.13	0.46
44:OC:122:ILE:HD12	44:OC:122:ILE:H	1.80	0.46
45:OD:276:ARG:HA	45:OD:279:GLN:OE1	2.16	0.46
45:OF:119:VAL:HA	45:OF:122:LYS:NZ	2.30	0.46
45:OF:174:LYS:HE2	45:OF:174:LYS:HA	1.97	0.46
44:OG:292:THR:HG21	44:OG:331:SER:OG	2.15	0.46
45:OH:4:ILE:HG13	45:OH:5:VAL:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:165:GLU:HA	45:OH:198:GLU:O	2.15	0.46
44:OI:137:VAL:HG23	44:OI:168:GLY:CA	2.46	0.46
44:OI:232:ALA:O	44:OI:235:ILE:HB	2.15	0.46
44:OI:242:LEU:HD21	44:OI:252:ILE:HG12	1.96	0.46
45:OJ:262:ARG:NH1	45:OJ:421:GLU:OE1	2.49	0.46
45:OJ:376:GLU:O	45:OJ:380:ARG:HG2	2.15	0.46
44:OK:60:LYS:HZ3	44:PK:283:HIS:CE1	2.34	0.46
44:OK:108:TYR:HA	44:OK:112:LYS:HE3	1.98	0.46
44:OK:358:GLN:OE1	44:OK:358:GLN:HA	2.15	0.46
45:OL:237:THR:HG22	45:OL:250:LEU:CD1	2.46	0.46
45:OL:331:LEU:O	45:OL:334:GLN:N	2.43	0.46
44:OM:143:GLY:HA3	46:OM:501:GTP:O2B	2.16	0.46
44:PA:205:ASP:OD1	44:PA:303:ALA:HA	2.16	0.46
44:PA:435:VAL:HA	45:PD:391:ARG:NH2	2.30	0.46
45:PB:207:LEU:HD21	45:PB:300:MET:CG	2.44	0.46
45:PB:296:ALA:CB	45:PB:305:PRO:HD2	2.41	0.46
45:PD:265:PHE:HB2	45:PD:374:ILE:HD12	1.98	0.46
44:PE:276:ILE:HG23	44:PE:276:ILE:O	2.15	0.46
44:PE:317:MET:HA	44:PE:376:CYS:O	2.16	0.46
45:PF:20:PHE:CG	45:PF:24:ILE:CA	2.99	0.46
45:PF:252:LYS:HG2	45:PF:350:LYS:NZ	2.31	0.46
45:PF:290:THR:HG23	45:PF:291:GLN:N	2.31	0.46
44:PG:398:MET:CE	44:PG:403:ALA:HB3	2.45	0.46
44:PI:222:PRO:CG	45:PJ:324:LYS:HD3	2.46	0.46
44:PI:307:PRO:CB	44:PI:312:TYR:OH	2.63	0.46
45:PJ:22:GLU:HG3	45:PJ:81:PHE:HB2	1.98	0.46
45:PL:72:THR:HG23	45:PL:73:MET:N	2.31	0.46
45:PL:101:TRP:HB3	45:PL:398:TYR:HE2	1.80	0.46
44:PM:16:VAL:HG21	44:PM:231:ILE:HG21	1.98	0.46
44:PM:311:LYS:HD2	44:PM:342:GLN:HG3	1.96	0.46
45:QB:255:VAL:O	44:QC:407:TRP:HZ3	1.99	0.46
44:QC:385:ALA:O	44:QC:388:PHE:HB2	2.16	0.46
45:QD:161:ASP:OD1	45:QD:162:ARG:N	2.49	0.46
45:QD:286:VAL:O	45:QD:290:THR:HG22	2.16	0.46
44:QE:47:ASP:HB2	44:QE:49:PHE:HD1	1.79	0.46
44:QG:179:THR:HG21	46:QG:501:GTP:C3'	2.46	0.46
45:QH:143:THR:HG22	48:QH:501:GDP:O1B	2.16	0.46
45:QH:192:LEU:HD12	45:QH:196:ALA:HB2	1.97	0.46
44:QI:239:THR:CB	44:QI:243:ARG:HE	2.28	0.46
45:QJ:86:ARG:NH2	45:RJ:281:TYR:HD2	2.14	0.46
45:QJ:178:THR:HG22	45:QJ:180:VAL:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:204:ASN:O	45:QJ:207:LEU:HB2	2.16	0.46
45:QL:182:PRO:HB3	45:QL:385:PHE:HA	1.97	0.46
44:QM:68:LEU:HG	44:QM:93:ILE:CG2	2.45	0.46
44:QM:203:MET:CE	44:QM:387:VAL:HG21	2.41	0.46
45:QN:389:PHE:CZ	45:QN:405:GLU:HB2	2.49	0.46
44:RA:19:ALA:HB2	44:RA:228:ASN:ND2	2.31	0.46
44:RA:208:ALA:HB3	44:RA:302:MET:O	2.16	0.46
44:RA:238:LEU:HD12	44:RA:378:ILE:HD11	1.96	0.46
44:RA:245:ASP:OD1	44:RA:246:GLY:N	2.49	0.46
45:RB:72:THR:HG23	45:RB:73:MET:N	2.31	0.46
45:RB:149:THR:HG23	45:RB:150:LEU:N	2.31	0.46
45:RB:395:LEU:HG	45:RB:399:THR:CG2	2.46	0.46
44:RC:298:PRO:CA	44:RC:301:MET:HG2	2.39	0.46
44:RC:408:TYR:HB3	44:RC:413:MET:HE3	1.98	0.46
45:RD:258:ILE:HD11	45:RD:266:PHE:CZ	2.50	0.46
45:RD:345:ILE:HA	44:RE:398:MET:HE3	1.98	0.46
44:RG:145:THR:HG22	46:RG:501:GTP:O3G	2.16	0.46
44:RG:183:GLU:O	44:RG:187:SER:HB2	2.15	0.46
44:RG:209:ILE:HG22	44:RG:227:LEU:CD2	2.46	0.46
44:RG:209:ILE:C	44:RG:212:ILE:HG22	2.36	0.46
45:RH:212:PHE:CZ	45:RH:220:PRO:HG2	2.51	0.46
44:RI:123:ARG:HD3	44:RI:161:TYR:OH	2.15	0.46
44:RI:154:LEU:O	44:RI:197:HIS:HB3	2.15	0.46
45:RJ:105:HIS:NE2	45:RJ:150:LEU:HB2	2.30	0.46
45:RJ:215:LEU:O	45:RJ:275:SER:HB2	2.16	0.46
44:RK:2:ARG:HD2	44:RK:242:LEU:CB	2.46	0.46
44:RK:103:PHE:HD1	44:RK:147:SER:OG	1.98	0.46
44:RK:174:SER:HB2	44:RK:177:VAL:O	2.16	0.46
44:RK:306:ASP:HB3	44:RK:309:HIS:ND1	2.30	0.46
44:RK:312:TYR:HD1	44:RK:381:SER:HB3	1.81	0.46
44:RK:384:ILE:O	44:RK:387:VAL:HG22	2.16	0.46
44:RK:433:GLU:O	44:RK:437:ILE:HG23	2.15	0.46
45:RL:141:GLY:O	45:RL:145:SER:HB3	2.15	0.46
45:RL:325:GLU:HA	45:RL:328:GLU:OE2	2.16	0.46
45:RN:145:SER:O	45:RN:149:THR:N	2.31	0.46
44:SA:20:CYS:HB2	44:SA:24:PHE:CE2	2.51	0.46
44:SA:230:LEU:HD11	44:SA:368:LEU:CD2	2.36	0.46
45:SB:3:GLU:HB2	45:SB:49:VAL:O	2.16	0.46
45:SB:53:GLU:OE2	45:SB:57:GLY:HA2	2.16	0.46
45:SB:309:ARG:HG2	45:SB:340:TYR:C	2.37	0.46
45:SB:373:ALA:HA	45:SB:377:MET:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:287:SER:O	44:SC:291:ILE:HG23	2.16	0.46
45:SD:161:ASP:OD1	45:SD:162:ARG:HG2	2.16	0.46
45:SF:303:ALA:HB2	45:SF:377:MET:HE2	1.97	0.46
44:SG:145:THR:HG23	44:SG:146:GLY:N	2.31	0.46
44:SG:182:VAL:O	44:SG:182:VAL:HG22	2.16	0.46
44:SG:214:ARG:HH22	44:SG:220:GLU:CB	2.25	0.46
44:SG:258:ASN:OD1	45:SH:179:VAL:HG22	2.15	0.46
45:SH:304:ASP:HB3	45:SH:307:HIS:ND1	2.31	0.46
44:SI:179:THR:HB	46:SI:501:GTP:O3'	2.16	0.46
45:SJ:313:ALA:HB3	45:SJ:348:ASN:O	2.16	0.46
45:SJ:317:PHE:HA	45:SJ:365:VAL:HG22	1.97	0.46
44:SK:183:GLU:CG	44:SK:184:PRO:HD3	2.45	0.46
44:SK:425:LEU:O	44:SK:429:GLU:N	2.33	0.46
45:SN:382:ALA:HB2	45:SN:415:MET:CE	2.45	0.46
45:TB:99:ASN:HA	45:TB:142:GLY:N	2.31	0.46
45:TB:237:THR:HG23	45:TB:241:ARG:NH2	2.29	0.46
44:TC:84:ARG:HH11	44:TC:85:GLN:HG2	1.76	0.46
44:TC:88:HIS:HD2	44:UC:283:HIS:CB	2.29	0.46
44:TE:243:ARG:NH1	44:TE:244:PHE:HD2	2.14	0.46
44:TG:107:HIS:HB2	44:TG:148:GLY:HA2	1.97	0.46
44:TG:145:THR:OG1	46:TG:501:GTP:O3B	2.34	0.46
45:TH:16:ILE:HD12	45:TH:16:ILE:H	1.81	0.46
44:TI:296:PHE:CE2	44:TI:335:ILE:HG12	2.51	0.46
44:TK:287:SER:CB	44:TK:290:GLU:HG2	2.45	0.46
44:TK:296:PHE:CE2	44:TK:335:ILE:HG12	2.51	0.46
45:TL:333:VAL:HG12	45:TL:333:VAL:O	2.16	0.46
45:TL:390:ARG:HG3	45:TL:391:ARG:N	2.30	0.46
44:UA:91:GLN:NE2	44:UA:121:ARG:HD2	2.30	0.46
44:UC:77:GLU:HA	44:UC:80:THR:HG1	1.81	0.46
44:UC:183:GLU:N	44:UC:184:PRO:HD2	2.31	0.46
44:UC:188:ILE:HG13	44:UC:395:PHE:HB2	1.97	0.46
44:UC:290:GLU:O	44:UC:293:ASN:HB2	2.16	0.46
45:UD:272:PRO:CD	45:UD:361:LEU:HD13	2.46	0.46
45:UD:304:ASP:O	45:UD:373:ALA:HB1	2.15	0.46
44:UE:271:SER:OG	44:UE:377:MET:HE3	2.16	0.46
45:UF:174:LYS:HD2	45:UF:175:VAL:N	2.32	0.46
45:UH:217:LEU:HD12	45:UH:217:LEU:O	2.16	0.46
45:UH:270:PHE:HD2	45:UH:273:LEU:HD21	1.81	0.46
44:UI:208:ALA:O	44:UI:211:ASP:N	2.49	0.46
44:UI:311:LYS:CE	44:UI:342:GLN:HG3	2.46	0.46
45:UJ:15:GLN:O	45:UJ:18:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:70:PRO:HG3	45:UJ:92:PHE:CD2	2.51	0.46
45:UJ:103:LYS:O	45:UJ:108:GLU:HB2	2.16	0.46
45:UJ:263:LEU:HD23	45:UJ:422:TYR:CE1	2.51	0.46
45:UJ:350:LYS:HG2	45:UJ:351:SER:H	1.77	0.46
44:UK:253:THR:HG23	45:UL:98:GLY:HA2	1.98	0.46
45:UL:299:MET:SD	45:UL:305:PRO:HD3	2.56	0.46
44:UM:141:VAL:CG2	44:UM:187:SER:HA	2.43	0.46
44:UM:291:ILE:HD13	44:UM:373:ARG:NH1	2.31	0.46
45:UN:197:ASP:O	45:UN:264:HIS:HB2	2.15	0.46
45:UN:253:LEU:O	45:UN:257:LEU:HD13	2.15	0.46
44:VA:99:ALA:HB3	44:VA:145:THR:HA	1.98	0.46
44:VA:174:SER:HB2	44:VA:177:VAL:HB	1.97	0.46
44:VC:79:ARG:O	44:VC:84:ARG:HB3	2.16	0.46
45:VD:105:HIS:O	45:VD:106:TYR:HD1	1.98	0.46
44:VE:68:LEU:HD12	44:VE:69:ASP:H	1.79	0.46
44:VE:396:ASP:CG	44:VE:422:ARG:HH21	2.18	0.46
45:VF:309:ARG:N	45:VF:372:THR:OG1	2.49	0.46
44:VG:55:GLU:OE2	44:VG:57:GLY:N	2.49	0.46
45:VH:46:ARG:HB2	45:VH:241:ARG:O	2.16	0.46
44:VI:406:HIS:O	44:VI:409:VAL:HG12	2.16	0.46
45:VJ:81:PHE:O	45:VJ:84:LEU:HD13	2.16	0.46
45:VL:67:ASP:HB3	45:VL:73:MET:CE	2.46	0.46
45:VL:105:HIS:ND1	45:VL:150:LEU:HD12	2.31	0.46
45:VN:268:ILE:HB	45:VN:367:PHE:O	2.16	0.46
44:WA:1:MET:HE1	45:WD:94:GLN:HG2	1.97	0.46
45:WD:28:HIS:HA	45:WD:43:GLN:HG2	1.98	0.46
44:WE:3:GLU:OE2	44:WE:129:CYS:HA	2.16	0.46
44:WG:14:ILE:HD11	44:WG:75:ILE:HD11	1.98	0.46
45:WH:4:ILE:HG13	45:WH:50:TYR:HE1	1.81	0.46
45:WH:178:THR:CG2	45:WH:180:VAL:HG12	2.46	0.46
45:WH:199:CYS:N	45:WH:264:HIS:O	2.49	0.46
44:WI:224:TYR:HA	44:WI:227:LEU:HB2	1.97	0.46
44:WI:409:VAL:HG12	44:WI:409:VAL:O	2.16	0.46
45:WJ:285:THR:HG23	45:WJ:287:PRO:CD	2.40	0.46
44:WK:290:GLU:HA	44:WK:293:ASN:ND2	2.30	0.46
44:WK:291:ILE:HD12	44:WK:375:VAL:HG23	1.97	0.46
45:WL:288:GLU:O	45:WL:291:GLN:HG3	2.16	0.46
44:WM:285:GLN:HG3	44:WM:286:LEU:CA	2.46	0.46
45:WN:83:GLN:HA	45:WN:83:GLN:OE1	2.15	0.46
45:WN:99:ASN:CA	45:WN:142:GLY:HA3	2.40	0.46
2:0A:99:GLY:HA3	45:MB:81:PHE:CE1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0B:173:THR:HG21	45:JJ:245:GLN:OE1	2.15	0.45
4:0C:89:PHE:HD1	44:EI:229:ARG:NH2	2.13	0.45
6:0E:119:ASP:O	35:7R:579:ASN:ND2	2.50	0.45
8:0G:172:TYR:HE1	44:KM:130:THR:HG22	1.78	0.45
9:0H:359:VAL:HG23	44:HM:370:LYS:HE3	1.96	0.45
2:1A:55:PRO:HG2	44:ME:79:ARG:HD2	1.97	0.45
20:1J:140:PHE:CE1	44:IE:278:ALA:HA	2.51	0.45
22:1L:148:ARG:HH12	45:CH:39:ASP:CB	2.27	0.45
25:1P:254:ALA:CB	45:TF:276:ARG:HD2	2.46	0.45
25:1P:302:LYS:HD3	45:TD:362:LYS:HZ2	1.76	0.45
31:2H:192:GLN:C	45:AD:362:LYS:HZ3	2.20	0.45
21:2K:433:LEU:CD1	44:GE:369:ALA:HB1	2.45	0.45
22:2L:548:ARG:NH1	44:BM:365:GLY:H	2.06	0.45
22:2L:892:ARG:HH21	44:CK:277:SER:HB2	1.81	0.45
26:2R:101:ARG:NH1	44:AG:41:THR:HG21	2.30	0.45
2:3A:37:THR:HB	45:MN:320:ARG:NH2	2.30	0.45
2:3A:91:ASN:CA	45:MN:37:HIS:NE2	2.79	0.45
16:3X:48:TRP:CG	44:MM:370:LYS:HE3	2.51	0.45
37:5D:20:LEU:HD22	45:KN:419:VAL:CB	2.45	0.45
37:5D:108:ARG:C	44:NM:281:ALA:N	2.69	0.45
38:5F:151:GLU:CD	38:5F:155:MET:HE1	2.36	0.45
35:5R:488:LEU:O	35:5R:488:LEU:HD23	2.16	0.45
35:5R:589:MET:SD	35:5R:598:TRP:HD1	2.39	0.45
36:5S:118:PHE:O	36:5S:121:ASP:N	2.49	0.45
36:5S:208:GLN:O	36:5S:208:GLN:HG2	2.15	0.45
40:6F:45:LYS:HE2	45:IF:45:GLU:OE2	2.16	0.45
40:6F:92:LYS:HA	44:JE:82:THR:CG2	2.41	0.45
41:6G:270:THR:HG23	44:VA:298:PRO:HD3	1.98	0.45
41:6G:304:GLY:O	41:6G:305:THR:OG1	2.32	0.45
35:6R:246:GLN:HE21	44:BM:58:ALA:CA	2.29	0.45
35:6R:284:THR:HG22	35:6R:308:LYS:HG2	1.97	0.45
35:7R:350:PHE:C	35:7R:371:ILE:H	2.18	0.45
35:7R:455:VAL:CG2	35:7R:471:LEU:HB2	2.45	0.45
35:7R:536:ARG:CG	35:7R:609:LEU:HD22	2.46	0.45
42:8L:366:UNK:HA	44:SC:370:LYS:CE	2.46	0.45
42:8L:396:UNK:HA	45:SB:280:GLN:NE2	2.31	0.45
43:8P:151:UNK:O	43:8P:155:UNK:N	2.49	0.45
43:8R:167:UNK:O	43:8R:170:UNK:N	2.49	0.45
43:8R:173:UNK:CE2	44:OG:59:GLY:HA3	2.45	0.45
45:AB:166:THR:OG1	45:AB:199:CYS:HA	2.15	0.45
45:AB:315:ALA:HB3	45:AB:330:MET:HE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:91:GLN:HG3	44:AC:92:LEU:HD12	1.98	0.45
44:AC:260:VAL:O	44:AC:260:VAL:HG23	2.16	0.45
45:AD:146:GLY:O	45:AD:149:THR:HG22	2.16	0.45
45:AD:183:TYR:O	45:AD:186:THR:HG22	2.15	0.45
45:AD:367:PHE:CZ	45:AD:369:GLY:HA3	2.51	0.45
45:AD:372:THR:HA	45:AD:422:TYR:CZ	2.51	0.45
45:AD:377:MET:O	45:AD:380:ARG:HG2	2.16	0.45
44:AE:277:SER:O	44:AE:281:ALA:HB2	2.15	0.45
44:AE:317:MET:CE	44:AE:319:TYR:HE1	2.28	0.45
44:AG:185:TYR:HE2	44:AG:404:PHE:HB2	1.80	0.45
44:AG:306:ASP:OD2	44:AG:308:ARG:HB2	2.16	0.45
44:AI:224:TYR:HE2	45:AJ:246:LEU:CD1	2.29	0.45
44:AI:258:ASN:ND2	44:AI:352:LYS:HD3	2.30	0.45
44:AI:291:ILE:HG13	44:AI:292:THR:N	2.31	0.45
44:AI:296:PHE:CE1	44:AI:335:ILE:HG21	2.51	0.45
44:AK:32:PRO:HB3	44:AK:83:TYR:HE1	1.79	0.45
44:AK:135:PHE:HZ	44:AK:161:TYR:HE2	1.63	0.45
44:AK:243:ARG:HG3	44:AK:243:ARG:NH1	2.29	0.45
45:AL:181:GLU:O	45:AL:184:ASN:OD1	2.34	0.45
45:AL:245:GLN:C	45:AL:246:LEU:HD12	2.36	0.45
44:AM:230:LEU:HD11	44:AM:275:ILE:HD13	1.98	0.45
45:AN:9:GLY:O	45:AN:13:GLY:HA3	2.15	0.45
45:AN:45:GLU:C	45:AN:46:ARG:HD3	2.37	0.45
45:AN:425:TYR:O	45:AN:428:ALA:N	2.43	0.45
44:BA:235:ILE:HD12	44:BA:235:ILE:H	1.81	0.45
44:BC:1:MET:HE1	45:BF:94:GLN:HA	1.97	0.45
44:BC:139:ASN:O	44:BC:170:THR:HA	2.15	0.45
44:BC:183:GLU:HG2	44:BC:184:PRO:HD3	1.98	0.45
45:BD:311:LEU:HD23	45:BD:342:VAL:HG11	1.98	0.45
44:BE:323:VAL:HG23	44:BE:355:ILE:HG23	1.98	0.45
45:BF:175:VAL:O	45:BF:175:VAL:HG23	2.17	0.45
45:BF:263:LEU:CD1	45:BF:422:TYR:CE1	2.98	0.45
45:BH:20:PHE:CE1	45:BH:24:ILE:HD11	2.50	0.45
45:BH:58:ARG:CZ	45:CF:281:TYR:HE1	2.29	0.45
45:BH:318:ARG:HG2	45:BH:356:ILE:O	2.16	0.45
44:BK:274:PRO:HG2	44:BK:286:LEU:CD1	2.46	0.45
44:BM:22:GLU:HG3	44:BM:83:TYR:OH	2.16	0.45
44:BM:73:THR:N	45:BN:46:ARG:HH22	2.14	0.45
44:BM:115:VAL:O	44:BM:119:LEU:HD23	2.16	0.45
44:BM:155:GLU:HA	44:BM:197:HIS:ND1	2.30	0.45
44:CA:71:GLU:HB2	44:CA:98:ASP:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:109:THR:C	44:CA:110:ILE:HD13	2.36	0.45
45:CB:135:ILE:CG1	45:CB:152:ILE:HD11	2.37	0.45
45:CB:254:ALA:HA	45:CB:258:ILE:HD13	1.97	0.45
45:CB:374:ILE:HG22	45:CB:378:PHE:CE2	2.51	0.45
44:CC:8:HIS:ND1	44:CC:67:PHE:HE1	2.14	0.45
44:CC:21:TRP:CE3	44:CC:21:TRP:HA	2.51	0.45
45:CD:256:ASN:OD1	44:CE:181:VAL:HG13	2.15	0.45
44:CE:305:CYS:O	44:CE:307:PRO:HD3	2.15	0.45
44:CE:363:VAL:HG23	44:CE:364:PRO:HD2	1.98	0.45
45:CF:314:SER:HB2	45:CF:350:LYS:HB3	1.97	0.45
44:CG:250:VAL:HG21	44:CG:318:MET:SD	2.56	0.45
44:CG:257:THR:HG22	45:CH:397:TRP:CZ2	2.51	0.45
45:CJ:173:PRO:HD3	45:CJ:380:ARG:HD3	1.97	0.45
45:CJ:389:PHE:O	45:CJ:392:LYS:HD3	2.16	0.45
44:CM:21:TRP:HZ2	44:CM:65:ALA:CB	2.26	0.45
45:CN:51:TYR:CE1	45:CN:61:PRO:HG3	2.51	0.45
44:DA:191:THR:O	44:DA:195:LEU:HB2	2.15	0.45
45:DB:289:LEU:HD11	45:DB:363:MET:CB	2.36	0.45
45:DB:375:GLN:HG3	45:DB:376:GLU:N	2.31	0.45
45:DB:420:SER:O	45:DB:424:GLN:OE1	2.34	0.45
45:DD:42:LEU:HA	45:DD:45:GLU:HG3	1.97	0.45
45:DF:149:THR:O	45:DF:152:ILE:N	2.49	0.45
44:DG:31:GLN:HG2	44:DG:32:PRO:HD2	1.97	0.45
44:DG:63:PRO:HG2	44:DG:86:LEU:HD21	1.99	0.45
44:DG:419:SER:O	44:DG:422:ARG:N	2.49	0.45
44:DI:55:GLU:HG3	44:DI:57:GLY:H	1.81	0.45
45:DJ:278:SER:O	45:DJ:279:GLN:HG3	2.16	0.45
44:DK:188:ILE:HD12	44:DK:188:ILE:H	1.82	0.45
44:DK:352:LYS:HD3	45:DL:177:ASP:O	2.17	0.45
45:DL:14:ASN:OD1	45:DL:65:LEU:HD23	2.16	0.45
45:DL:253:LEU:HD11	45:DL:368:VAL:HG11	1.97	0.45
45:DL:287:PRO:HA	45:DL:290:THR:HG22	1.98	0.45
45:DL:309:ARG:H	45:DL:372:THR:HG1	1.54	0.45
45:DN:133:PHE:O	45:DN:165:GLU:N	2.41	0.45
44:EA:270:SER:HA	44:EA:377:MET:O	2.16	0.45
44:EA:401:LYS:HE3	44:EA:401:LYS:HB2	1.73	0.45
45:EB:244:GLY:HA3	45:EB:354:CYS:HA	1.97	0.45
45:EB:324:LYS:HG3	44:EC:210:TYR:CE2	2.50	0.45
44:EE:188:ILE:O	44:EE:191:THR:HB	2.17	0.45
45:EF:145:SER:CB	45:EF:184:ASN:HB2	2.46	0.45
44:EG:7:ILE:CB	44:EG:137:VAL:HG12	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EG:158:SER:HB3	44:EG:197:HIS:ND1	2.31	0.45
44:EG:269:LEU:HD23	44:EG:269:LEU:H	1.81	0.45
45:EH:116:VAL:HA	45:EH:119:VAL:HG22	1.99	0.45
44:EI:437:ILE:O	44:EI:437:ILE:HG13	2.15	0.45
45:EJ:174:LYS:HZ1	45:EJ:175:VAL:CG1	2.29	0.45
45:EJ:347:ASN:O	44:EK:181:VAL:HG12	2.16	0.45
44:EK:205:ASP:CG	44:EK:303:ALA:HA	2.36	0.45
44:EK:278:ALA:CB	44:EK:369:ALA:HB2	2.40	0.45
44:EK:402:ARG:HG3	44:EK:402:ARG:O	2.16	0.45
44:EM:103:PHE:CD1	44:EM:147:SER:HB2	2.50	0.45
44:EM:325:PRO:HG2	45:EN:222:TYR:CD2	2.51	0.45
44:EM:344:VAL:HG13	44:EM:347:CYS:H	1.80	0.45
45:EN:170:VAL:N	45:EN:202:ILE:O	2.49	0.45
44:FA:74:VAL:HG23	44:FA:75:ILE:N	2.31	0.45
45:FB:421:GLU:C	45:FB:424:GLN:H	2.19	0.45
45:FD:381:VAL:HB	45:FD:415:MET:HE1	1.98	0.45
44:FE:68:LEU:CD2	44:FE:118:CYS:HB2	2.46	0.45
45:FF:3:GLU:OE1	45:FF:3:GLU:N	2.35	0.45
44:FG:246:GLY:HA2	44:FG:357:TYR:CD2	2.49	0.45
45:FH:18:ALA:HB2	45:FH:76:VAL:CG2	2.46	0.45
45:FH:21:TRP:CZ2	45:FH:63:ALA:HB2	2.50	0.45
45:FH:143:THR:HG22	48:FH:501:GDP:PB	2.56	0.45
45:FJ:7:ILE:O	45:FJ:135:ILE:HD12	2.16	0.45
45:FJ:13:GLY:HA2	45:FJ:16:ILE:HG22	1.98	0.45
45:FJ:268:ILE:HG22	45:FJ:368:VAL:HG22	1.99	0.45
45:FJ:352:SER:O	45:FJ:353:ILE:HD13	2.16	0.45
45:FL:311:LEU:HB2	45:FL:370:ASN:HB3	1.98	0.45
44:FM:32:PRO:HB3	44:FM:83:TYR:HE1	1.77	0.45
44:FM:103:PHE:O	44:FM:106:GLY:N	2.49	0.45
44:FM:121:ARG:HA	44:FM:121:ARG:HD2	1.74	0.45
45:FN:284:LEU:HD12	45:FN:362:LYS:HE2	1.98	0.45
45:FN:288:GLU:HG2	45:FN:291:GLN:NE2	2.31	0.45
45:FN:317:PHE:O	45:FN:318:ARG:HG2	2.15	0.45
44:GA:17:GLY:HA2	44:GA:20:CYS:SG	2.55	0.45
44:GC:71:GLU:OE2	44:GC:72:PRO:HD2	2.15	0.45
45:GD:218:THR:HG23	45:GD:219:THR:N	2.31	0.45
45:GD:286:VAL:HG11	45:GD:325:GLU:HG2	1.97	0.45
45:GD:326:VAL:HG13	45:GD:327:ASP:N	2.31	0.45
45:GF:213:ARG:NH2	45:GF:297:LYS:HE2	2.30	0.45
45:GF:342:VAL:N	45:GF:348:ASN:HA	2.31	0.45
44:GG:257:THR:O	44:GG:257:THR:CG2	2.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:99:ASN:C	45:GH:142:GLY:HA3	2.36	0.45
44:GI:91:GLN:HG3	44:GI:92:LEU:HD12	1.97	0.45
45:GJ:112:LEU:O	45:GJ:112:LEU:HD23	2.16	0.45
45:GJ:388:MET:HG2	45:GJ:388:MET:O	2.16	0.45
44:GK:2:ARG:HA	44:GK:133:GLN:NE2	2.17	0.45
44:GK:22:GLU:CG	44:GK:83:TYR:HE2	2.26	0.45
45:GN:182:PRO:HB2	45:GN:386:THR:N	2.30	0.45
45:GN:315:ALA:HB1	45:GN:365:VAL:CG1	2.45	0.45
44:HA:21:TRP:CZ3	44:HA:24:PHE:HD2	2.34	0.45
44:HA:67:PHE:C	44:HA:68:LEU:HD12	2.36	0.45
44:HA:202:VAL:HA	44:HA:268:MET:O	2.16	0.45
44:HA:266:HIS:O	44:HA:266:HIS:ND1	2.50	0.45
45:HB:269:GLY:O	45:HB:367:PHE:N	2.37	0.45
44:HC:89:PRO:CD	44:IC:283:HIS:ND1	2.79	0.45
44:HC:132:LEU:HD22	44:HC:164:LYS:NZ	2.31	0.45
45:HD:97:ALA:CB	45:HD:143:THR:HB	2.43	0.45
45:HD:203:ASP:O	45:HD:207:LEU:HG	2.16	0.45
44:HE:186:ASN:OD1	44:HE:187:SER:N	2.49	0.45
45:HF:60:VAL:HG13	45:HF:60:VAL:O	2.15	0.45
45:HH:183:TYR:HE1	45:HH:388:MET:CB	2.28	0.45
45:HH:192:LEU:HG	45:HH:196:ALA:CB	2.46	0.45
44:HI:96:LYS:NZ	45:HJ:129:CYS:HB2	2.31	0.45
44:HI:288:VAL:HG23	44:HI:291:ILE:HD11	1.98	0.45
45:HJ:163:ILE:HG13	45:HJ:163:ILE:O	2.15	0.45
45:HN:81:PHE:O	45:HN:84:LEU:HD13	2.16	0.45
45:HN:101:TRP:HE1	45:HN:146:GLY:HA2	1.80	0.45
44:IA:402:ARG:HB3	44:IA:405:VAL:HG11	1.98	0.45
45:IB:31:ASP:OD2	45:IB:37:HIS:ND1	2.49	0.45
44:IC:200:VAL:HG13	44:IC:268:MET:SD	2.56	0.45
45:ID:54:ALA:HB1	44:JA:284:GLU:O	2.16	0.45
45:ID:133:PHE:HE2	45:ID:155:VAL:HG13	1.81	0.45
44:IE:6:SER:O	44:IE:7:ILE:HD13	2.16	0.45
44:IE:139:ASN:O	44:IE:170:THR:HA	2.16	0.45
44:IE:166:LYS:HG3	44:IE:198:THR:HG23	1.97	0.45
44:IG:145:THR:HG22	46:IG:501:GTP:O3B	2.15	0.45
45:IH:330:MET:O	45:IH:333:VAL:HG12	2.16	0.45
45:IH:342:VAL:HG11	45:IH:344:TRP:NE1	2.31	0.45
45:IH:374:ILE:HG22	45:IH:422:TYR:OH	2.16	0.45
45:IJ:263:LEU:HG	45:IJ:422:TYR:CD2	2.51	0.45
45:IJ:330:MET:HE2	45:IJ:349:ILE:HB	1.98	0.45
44:IK:13:GLY:CA	44:IK:16:VAL:HG22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:73:THR:HA	45:IL:46:ARG:HH21	1.80	0.45
44:IK:84:ARG:HD3	44:IK:85:GLN:OE1	2.16	0.45
44:IM:175:PRO:HB3	44:IM:390:ARG:NE	2.32	0.45
45:JB:64:ILE:C	45:JB:65:LEU:HD22	2.36	0.45
45:JF:32:PRO:HG3	45:JF:81:PHE:HE1	1.82	0.45
45:JF:106:TYR:CE2	45:JF:403:MET:HE3	2.50	0.45
45:JF:268:ILE:HG22	45:JF:368:VAL:HG13	1.98	0.45
44:JG:90:GLU:CD	44:KG:280:LYS:HD3	2.37	0.45
45:JH:144:GLY:N	48:JH:501:GDP:O1B	2.49	0.45
44:JI:47:ASP:HB2	44:JI:50:ASN:HD22	1.81	0.45
44:JK:13:GLY:HA2	44:JK:16:VAL:CG1	2.46	0.45
44:JM:204:LEU:CD2	44:JM:302:MET:HE1	2.46	0.45
44:JM:226:ASN:OD1	44:JM:227:LEU:HD23	2.15	0.45
44:JM:288:VAL:CA	44:JM:373:ARG:HD2	2.45	0.45
45:JN:58:ARG:NH2	45:JN:83:GLN:HG2	2.22	0.45
45:JN:97:ALA:HB2	45:JN:143:THR:HB	1.98	0.45
45:JN:180:VAL:HG22	45:JN:180:VAL:O	2.16	0.45
45:JN:245:GLN:OE1	45:JN:353:ILE:HD13	2.16	0.45
44:KA:317:MET:CE	44:KA:317:MET:HA	2.46	0.45
45:KB:28:HIS:CB	45:KB:30:ILE:CD1	2.94	0.45
45:KB:374:ILE:CG1	45:KB:377:MET:HE1	2.46	0.45
44:KC:123:ARG:HG2	44:KC:123:ARG:NH1	2.27	0.45
44:KC:230:LEU:O	44:KC:234:VAL:HG23	2.16	0.45
45:KD:22:GLU:HA	45:KD:81:PHE:HE2	1.79	0.45
44:KE:433:GLU:HG2	44:KE:433:GLU:O	2.14	0.45
44:KG:55:GLU:HG3	44:KG:57:GLY:H	1.81	0.45
45:KH:8:GLN:OE1	45:KH:17:GLY:HA3	2.16	0.45
45:KH:150:LEU:CD2	45:KH:154:LYS:HG2	2.46	0.45
44:KK:7:ILE:HD13	44:KK:66:VAL:HG12	1.98	0.45
44:KM:26:LEU:HD11	44:KM:364:PRO:CD	2.46	0.45
44:KM:93:ILE:CG2	44:KM:114:ILE:HD11	2.46	0.45
44:LA:132:LEU:HD22	44:LA:164:LYS:NZ	2.31	0.45
45:LB:107:THR:HG23	45:LB:108:GLU:CD	2.36	0.45
45:LB:136:THR:HA	45:LB:167:PHE:HB2	1.99	0.45
44:LC:2:ARG:O	44:LC:51:THR:HG23	2.17	0.45
44:LC:247:ALA:HB1	45:LF:222:TYR:CD2	2.51	0.45
44:LC:261:PRO:HA	45:LF:394:PHE:CD1	2.50	0.45
44:LE:362:VAL:HG13	44:LE:370:LYS:HB3	1.98	0.45
44:LE:386:GLU:O	44:LE:389:SER:OG	2.13	0.45
45:LF:265:PHE:CE2	45:LF:378:PHE:HZ	2.34	0.45
44:LG:54:SER:HB3	44:LG:64:ARG:NH1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:258:ILE:HD11	45:LH:266:PHE:CZ	2.51	0.45
45:LH:315:ALA:C	45:LH:316:LEU:HD12	2.37	0.45
44:LI:30:ILE:HG13	44:LI:30:ILE:O	2.16	0.45
44:LI:339:ARG:HH21	44:LI:342:GLN:HB3	1.80	0.45
45:LJ:117:LEU:HD21	45:LJ:158:GLU:OE2	2.17	0.45
45:LJ:183:TYR:O	45:LJ:186:THR:HG22	2.15	0.45
45:LJ:388:MET:O	45:LJ:388:MET:CG	2.64	0.45
45:LL:286:VAL:CG1	45:LL:325:GLU:HB3	2.45	0.45
44:MC:190:SER:O	44:MC:193:SER:HB3	2.16	0.45
45:MD:63:ALA:O	45:MD:64:ILE:HD13	2.16	0.45
45:MD:139:LEU:HG	45:MD:188:SER:CB	2.45	0.45
44:ME:282:TYR:HE1	44:ME:371:VAL:HG12	1.81	0.45
45:MF:97:ALA:CB	45:MF:143:THR:HB	2.46	0.45
45:MF:296:ALA:HA	45:MF:305:PRO:CG	2.46	0.45
45:MH:23:VAL:HG21	45:MH:230:SER:HB3	1.98	0.45
45:MH:344:TRP:CE3	45:MH:345:ILE:HB	2.51	0.45
44:MI:324:VAL:HG22	44:MI:327:ASP:OD2	2.16	0.45
44:MK:4:VAL:O	44:MK:4:VAL:HG23	2.15	0.45
44:MK:411:GLU:O	44:MK:411:GLU:HG3	2.16	0.45
45:ML:418:LEU:O	45:ML:422:TYR:HB2	2.15	0.45
44:MM:375:VAL:HG13	44:MM:375:VAL:O	2.16	0.45
44:MM:389:SER:O	44:MM:392:ASP:HB3	2.14	0.45
45:MN:11:GLN:HB2	45:MN:72:THR:HG21	1.97	0.45
45:NB:73:MET:HE3	45:NB:92:PHE:HB3	1.95	0.45
45:NB:173:PRO:HG2	45:NB:174:LYS:HZ2	1.81	0.45
44:NC:226:ASN:HA	44:NC:229:ARG:NH1	2.30	0.45
44:NC:401:LYS:HE2	45:ND:344:TRP:NE1	2.31	0.45
45:ND:3:GLU:CD	45:ND:127:CYS:HB2	2.36	0.45
44:NE:118:CYS:SG	44:NE:153:LEU:HD11	2.56	0.45
44:NE:216:ASN:HB3	44:NE:275:ILE:HG23	1.96	0.45
44:NE:264:ARG:HA	44:NE:264:ARG:HD2	1.73	0.45
45:NF:210:ILE:HD11	45:NF:298:ASN:HD21	1.81	0.45
44:NG:181:VAL:HG12	45:NH:256:ASN:OD1	2.16	0.45
44:NK:107:HIS:HB2	44:NK:148:GLY:HA2	1.98	0.45
44:NK:188:ILE:HG23	44:NK:425:LEU:CD1	2.46	0.45
44:NK:196:GLU:O	44:NK:196:GLU:HG3	2.15	0.45
44:NM:19:ALA:HB2	44:NM:228:ASN:HB3	1.97	0.45
45:NN:182:PRO:HG2	45:NN:388:MET:HG3	1.98	0.45
45:NN:186:THR:HG23	45:NN:187:LEU:N	2.30	0.45
45:NN:267:MET:CE	45:NN:303:ALA:HB3	2.46	0.45
45:NN:321:MET:SD	45:NN:353:ILE:HG23	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:154:LEU:HD23	44:OA:166:LYS:HZ1	1.80	0.45
45:OB:26:ASP:OD1	45:OB:27:GLU:N	2.49	0.45
45:OB:189:VAL:HB	45:OB:415:MET:HE2	1.97	0.45
45:OB:230:SER:HA	45:OB:233:MET:HE3	1.97	0.45
44:OC:71:GLU:OE1	44:OC:73:THR:OG1	2.30	0.45
45:OD:6:HIS:O	45:OD:63:ALA:HA	2.16	0.45
45:OD:36:TYR:CZ	45:OD:38:GLY:HA3	2.51	0.45
45:OD:175:VAL:HG21	45:OD:205:GLU:HB2	1.98	0.45
45:OD:301:CYS:HB2	45:OD:377:MET:HE1	1.98	0.45
44:OE:298:PRO:HB3	44:OE:307:PRO:CG	2.46	0.45
44:OG:54:SER:HB3	44:OG:64:ARG:CZ	2.47	0.45
44:OG:208:ALA:CB	44:OG:304:LYS:HZ2	2.28	0.45
45:OH:64:ILE:C	45:OH:65:LEU:HD12	2.36	0.45
45:OH:280:GLN:O	45:OH:281:TYR:HD1	1.99	0.45
44:OI:71:GLU:OE2	45:OJ:2:ARG:NH1	2.49	0.45
44:OI:182:VAL:HG22	44:OI:185:TYR:HB2	1.97	0.45
45:OJ:133:PHE:HD2	45:OJ:155:VAL:HG11	1.80	0.45
45:OJ:406:MET:O	45:OJ:409:THR:OG1	2.28	0.45
44:OK:179:THR:OG1	45:OL:246:LEU:HD13	2.16	0.45
44:OK:203:MET:HG3	44:OK:384:ILE:HD11	1.97	0.45
45:OL:267:MET:HB2	45:OL:301:CYS:SG	2.56	0.45
45:OL:383:GLU:HA	45:OL:386:THR:HG22	1.98	0.45
44:OM:206:ASN:OD1	44:OM:207:GLU:N	2.49	0.45
44:OM:405:VAL:O	44:OM:405:VAL:HG12	2.15	0.45
45:ON:287:PRO:HA	45:ON:290:THR:HG22	1.97	0.45
44:PA:223:THR:HG23	44:PA:225:THR:HG23	1.97	0.45
44:PA:234:VAL:HG13	44:PA:235:ILE:N	2.32	0.45
44:PA:246:GLY:HA2	44:PA:357:TYR:CD1	2.52	0.45
44:PA:367:ASP:OD1	44:PA:368:LEU:CD2	2.63	0.45
44:PC:145:THR:HG22	46:PC:501:GTP:O3B	2.16	0.45
44:PC:149:LEU:O	44:PC:153:LEU:HG	2.15	0.45
45:PD:11:GLN:HG3	45:PD:72:THR:CB	2.46	0.45
45:PD:105:HIS:CG	45:PD:150:LEU:HD21	2.51	0.45
45:PD:203:ASP:O	45:PD:207:LEU:HG	2.16	0.45
44:PE:115:VAL:HB	44:PE:152:LEU:CD2	2.46	0.45
44:PE:212:ILE:HD13	44:PE:215:ARG:NH1	2.25	0.45
44:PE:317:MET:CE	44:PE:375:VAL:HG21	2.46	0.45
45:PF:170:VAL:CG1	45:PF:201:VAL:HG21	2.46	0.45
44:PG:140:SER:O	44:PG:146:GLY:HA3	2.16	0.45
45:PL:165:GLU:OE2	45:PL:250:LEU:HD13	2.16	0.45
45:PL:175:VAL:O	45:PL:175:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:290:THR:OG1	45:PL:330:MET:HE3	2.16	0.45
45:PL:302:ALA:HB3	45:PL:377:MET:HE2	1.97	0.45
45:PN:113:ILE:HA	45:PN:116:VAL:HG12	1.98	0.45
45:PN:264:HIS:C	45:PN:265:PHE:HD1	2.19	0.45
45:PN:286:VAL:HB	45:PN:325:GLU:HG2	1.97	0.45
44:QA:346:TRP:HD1	45:QB:391:ARG:CZ	2.29	0.45
45:QB:267:MET:HE1	45:QB:305:PRO:HB3	1.97	0.45
45:QB:322:SER:HB3	44:QC:221:ARG:CD	2.46	0.45
44:QC:3:GLU:O	44:QC:133:GLN:HG2	2.16	0.45
44:QC:26:LEU:HD21	44:QC:364:PRO:HD2	1.99	0.45
44:QC:123:ARG:O	44:QC:127:ASP:N	2.33	0.45
44:QC:192:HIS:HA	44:QC:195:LEU:HB3	1.97	0.45
44:QC:405:VAL:HG13	44:QC:418:PHE:CE2	2.51	0.45
45:QD:28:HIS:HB3	45:QD:43:GLN:O	2.16	0.45
45:QD:310:TYR:CD1	45:QD:371:SER:HB2	2.51	0.45
44:QE:196:GLU:HG3	44:QE:197:HIS:ND1	2.31	0.45
44:QG:141:VAL:HG23	44:QG:190:SER:CB	2.45	0.45
44:QG:188:ILE:HG13	44:QG:395:PHE:CD1	2.50	0.45
44:QI:176:GLN:HG2	44:QI:177:VAL:N	2.30	0.45
45:QJ:9:GLY:O	45:QJ:137:HIS:HA	2.15	0.45
45:QJ:166:THR:OG1	45:QJ:198:GLU:O	2.30	0.45
45:QL:317:PHE:CE2	45:QL:365:VAL:HG21	2.52	0.45
44:QM:96:LYS:C	44:QM:96:LYS:HD2	2.36	0.45
44:QM:154:LEU:O	44:QM:157:LEU:HB2	2.16	0.45
44:QM:216:ASN:HB2	44:QM:275:ILE:HG22	1.96	0.45
44:QM:285:GLN:HG3	44:QM:287:SER:HB2	1.98	0.45
44:QM:324:VAL:HG11	45:QN:220:PRO:O	2.16	0.45
45:QN:167:PHE:CD2	45:QN:200:MET:HB2	2.51	0.45
45:RB:135:ILE:HG12	45:RB:152:ILE:HD11	1.98	0.45
45:RD:189:VAL:HG11	45:RD:378:PHE:HE1	1.80	0.45
44:RE:377:MET:SD	44:RE:377:MET:N	2.89	0.45
45:RF:66:MET:SD	45:RF:116:VAL:HG21	2.56	0.45
45:RF:86:ARG:HE	45:RF:87:PRO:HD2	1.81	0.45
45:RF:133:PHE:HE2	45:RF:155:VAL:CG1	2.30	0.45
44:RG:184:PRO:O	44:RG:188:ILE:HG12	2.16	0.45
44:RG:387:VAL:HG23	44:RG:388:PHE:N	2.31	0.45
45:RH:74:ASP:O	45:RH:77:ARG:NH1	2.49	0.45
44:RI:208:ALA:HB3	44:RI:302:MET:O	2.16	0.45
44:RK:108:TYR:CE1	44:RK:413:MET:HG2	2.50	0.45
45:RL:132:GLY:HA3	45:RL:163:ILE:CG1	2.46	0.45
45:RL:251:ARG:CZ	44:RM:100:ALA:HB3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:101:ASN:H	44:RM:144:GLY:HA3	1.81	0.45
44:RM:253:THR:O	44:RM:257:THR:HG23	2.16	0.45
45:RN:42:LEU:HG	45:RN:45:GLU:OE2	2.16	0.45
45:RN:46:ARG:O	45:RN:49:VAL:HG23	2.16	0.45
45:RN:380:ARG:O	45:RN:383:GLU:HB3	2.15	0.45
44:SA:208:ALA:HA	44:SA:304:LYS:HE3	1.98	0.45
44:SA:228:ASN:OD1	44:SA:231:ILE:HD12	2.17	0.45
44:SA:344:VAL:HG22	44:SA:345:ASP:H	1.80	0.45
44:SE:316:SER:HB3	44:SE:378:ILE:O	2.16	0.45
44:SE:414:GLU:HB2	44:SE:417:GLU:HG2	1.98	0.45
45:SF:113:ILE:CA	45:SF:116:VAL:HG12	2.42	0.45
44:SG:182:VAL:C	44:SG:184:PRO:HD2	2.37	0.45
45:SH:107:THR:OG1	45:SH:108:GLU:OE1	2.34	0.45
45:SH:253:LEU:O	45:SH:257:LEU:HD13	2.16	0.45
44:SI:98:ASP:OD1	44:SI:99:ALA:N	2.49	0.45
44:SI:319:TYR:HB3	44:SI:323:VAL:HG21	1.98	0.45
45:SJ:320:ARG:HD2	45:SJ:355:ASP:HB3	1.98	0.45
44:SK:288:VAL:HA	44:SK:291:ILE:CD1	2.46	0.45
45:SL:317:PHE:O	45:SL:354:CYS:N	2.49	0.45
45:SL:323:THR:HG21	44:SM:224:TYR:HD2	1.80	0.45
44:SM:182:VAL:C	44:SM:184:PRO:HD2	2.36	0.45
44:SM:208:ALA:O	44:SM:212:ILE:HG12	2.16	0.45
44:SM:231:ILE:HG22	44:SM:235:ILE:CG1	2.46	0.45
44:SM:311:LYS:HB2	44:SM:382:THR:CG2	2.46	0.45
44:TA:21:TRP:CZ2	44:TA:65:ALA:HB2	2.51	0.45
44:TA:295:ALA:HB1	44:TA:377:MET:HE1	1.94	0.45
44:TC:407:TRP:O	44:TC:411:GLU:HG2	2.16	0.45
44:TE:101:ASN:HA	44:TE:144:GLY:H	1.81	0.45
44:TE:188:ILE:HG23	44:TE:425:LEU:CD1	2.45	0.45
45:TF:112:LEU:HD23	45:TF:112:LEU:O	2.16	0.45
45:TH:321:MET:HG3	45:TH:326:VAL:HG21	1.97	0.45
45:TH:395:LEU:HG	45:TH:399:THR:HG21	1.97	0.45
44:TI:191:THR:CA	44:TI:194:LEU:HG	2.34	0.45
44:TI:212:ILE:CD1	44:TI:300:ASN:HA	2.47	0.45
45:TJ:11:GLN:HB3	48:TJ:501:GDP:PB	2.57	0.45
45:TJ:224:ASP:HA	45:TJ:227:HIS:HB3	1.98	0.45
44:TK:145:THR:HG23	46:TK:501:GTP:O2G	2.16	0.45
44:TK:297:GLU:O	44:TK:301:MET:HE3	2.16	0.45
45:TL:104:GLY:O	45:TL:146:GLY:HA3	2.16	0.45
45:TL:255:VAL:HA	44:TM:407:TRP:CZ3	2.48	0.45
44:TM:226:ASN:HA	44:TM:229:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:42:LEU:HD23	45:TN:242:PHE:HD1	1.81	0.45
45:TN:51:TYR:C	45:TN:62:ARG:HD3	2.36	0.45
44:UA:28:HIS:CE1	44:UA:243:ARG:HD2	2.51	0.45
44:UA:115:VAL:HG22	44:UA:119:LEU:HD23	1.97	0.45
44:UA:159:VAL:HG13	44:UA:160:ASP:N	2.31	0.45
44:UA:372:MET:HG3	44:UA:373:ARG:HG3	1.98	0.45
44:UC:7:ILE:CD1	44:UC:122:ILE:HD11	2.43	0.45
44:UC:18:ASN:O	44:UC:22:GLU:OE1	2.34	0.45
44:UC:32:PRO:HA	44:UC:83:TYR:HE1	1.81	0.45
44:UC:69:ASP:O	44:UC:94:SER:HA	2.16	0.45
45:UD:64:ILE:CD1	45:UD:120:VAL:HG22	2.46	0.45
45:UD:337:ASN:OD1	45:UD:340:TYR:HD2	1.99	0.45
44:UE:13:GLY:C	44:UE:16:VAL:HG12	2.36	0.45
44:UE:236:SER:HA	44:UE:239:THR:OG1	2.16	0.45
44:UE:387:VAL:CA	44:UE:390:ARG:HG2	2.38	0.45
45:UF:134:GLN:HG3	45:UF:134:GLN:O	2.16	0.45
45:UF:292:GLN:NE2	45:UF:298:ASN:OD1	2.49	0.45
44:UG:118:CYS:O	44:UG:121:ARG:HB3	2.16	0.45
44:UG:175:PRO:HG2	44:UG:304:LYS:HG2	1.99	0.45
45:UH:3:GLU:HG3	45:UH:62:ARG:NH1	2.27	0.45
45:UH:51:TYR:C	45:UH:62:ARG:HH21	2.15	0.45
45:UH:288:GLU:O	45:UH:291:GLN:HG3	2.15	0.45
45:UH:310:TYR:CD2	45:UH:341:PHE:HE1	2.34	0.45
45:UJ:10:GLY:CA	45:UJ:144:GLY:HA2	2.46	0.45
45:UJ:68:LEU:HD13	45:UJ:147:MET:CE	2.45	0.45
45:UJ:91:VAL:O	45:UJ:91:VAL:HG23	2.16	0.45
45:UJ:198:GLU:OE2	45:UJ:254:ALA:HB2	2.16	0.45
45:UJ:324:LYS:HD3	44:UK:222:PRO:CD	2.46	0.45
44:UK:256:GLN:HE21	44:UK:260:VAL:HG12	1.81	0.45
45:UL:133:PHE:O	45:UL:164:MET:HA	2.16	0.45
45:UL:391:ARG:HA	45:UL:391:ARG:HD2	1.77	0.45
44:UM:209:ILE:CG2	44:UM:227:LEU:HD23	2.46	0.45
44:UM:250:VAL:O	44:UM:250:VAL:HG12	2.16	0.45
44:UM:344:VAL:HG11	44:UM:346:TRP:CH2	2.51	0.45
45:UN:1:MET:C	45:UN:2:ARG:HG2	2.37	0.45
44:VA:105:ARG:HG2	44:VA:411:GLU:OE1	2.16	0.45
44:VA:195:LEU:HD12	44:VA:267:PHE:HE1	1.81	0.45
44:VA:211:ASP:O	44:VA:214:ARG:N	2.47	0.45
44:VA:257:THR:HG22	45:VD:397:TRP:CE3	2.51	0.45
45:VB:124:ALA:HB1	45:VB:159:TYR:HE2	1.80	0.45
44:VC:166:LYS:C	44:VC:167:LEU:HD22	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:181:VAL:HG22	45:VD:256:ASN:CB	2.45	0.45
45:VD:67:ASP:HB3	45:VD:73:MET:SD	2.56	0.45
45:VD:288:GLU:HA	45:VD:291:GLN:HG2	1.97	0.45
44:VE:2:ARG:HB2	44:VE:133:GLN:NE2	2.31	0.45
44:VE:326:LYS:HD3	45:VH:212:PHE:CZ	2.52	0.45
44:VG:275:ILE:HG23	44:VG:368:LEU:HD11	1.98	0.45
44:VI:119:LEU:HA	44:VI:122:ILE:HG12	1.97	0.45
44:VI:233:GLN:O	44:VI:236:SER:N	2.49	0.45
45:VL:267:MET:N	45:VL:369:GLY:O	2.48	0.45
44:VM:5:ILE:HB	44:VM:135:PHE:CD1	2.51	0.45
44:VM:305:CYS:SG	44:VM:306:ASP:N	2.89	0.45
45:VN:28:HIS:HA	45:VN:43:GLN:CG	2.45	0.45
45:VN:329:GLN:O	45:VN:333:VAL:HG23	2.16	0.45
44:WA:226:ASN:HA	44:WA:229:ARG:HH22	1.80	0.45
44:WA:236:SER:HG	44:WA:320:ARG:HH12	1.54	0.45
44:WC:209:ILE:HD11	44:WC:302:MET:CE	2.46	0.45
44:WC:285:GLN:HG3	44:WC:290:GLU:OE2	2.16	0.45
44:WE:336:LYS:HD2	44:WE:336:LYS:O	2.16	0.45
45:WF:64:ILE:HG23	45:WF:119:VAL:HG11	1.98	0.45
45:WF:345:ILE:HG23	45:WF:345:ILE:O	2.16	0.45
45:WJ:46:ARG:O	45:WJ:49:VAL:HG23	2.15	0.45
45:WJ:65:LEU:HB2	45:WJ:90:PHE:HE1	1.81	0.45
45:WJ:139:LEU:O	45:WJ:145:SER:HB3	2.16	0.45
44:WM:200:VAL:HA	44:WM:266:HIS:HB2	1.98	0.45
2:0A:124:LEU:HD22	45:AB:279:GLN:NE2	2.31	0.45
8:0G:13:TYR:HA	45:IL:53:GLU:HG2	1.97	0.45
12:0S:108:LEU:HB3	45:MB:160:PRO:HB2	1.97	0.45
15:0V:93:MET:HG3	45:LN:197:ASP:OD1	2.16	0.45
25:1P:276:THR:HB	44:TE:282:TYR:CE2	2.31	0.45
27:1W:206:ILE:HD12	44:LA:372:MET:HG2	1.97	0.45
30:2G:14:TYR:CE1	44:KG:339:ARG:HA	2.51	0.45
30:2G:35:GLU:OE1	45:KJ:218:THR:HB	2.16	0.45
12:2S:99:GLY:HA2	45:MJ:194:GLU:HG3	1.99	0.45
24:3O:420:ILE:HG21	44:TG:58:ALA:HB2	1.97	0.45
14:3U:193:LYS:NZ	45:WN:78:ALA:HB3	2.30	0.45
35:4R:267:LEU:HD11	45:DF:280:GLN:HB3	1.97	0.45
37:5D:34:PHE:CE1	44:KK:430:LYS:N	2.84	0.45
37:5D:39:ARG:CD	44:KK:260:VAL:HG22	2.43	0.45
37:5D:107:TYR:N	44:NM:279:GLU:C	2.64	0.45
38:5F:44:ARG:HD3	44:NC:57:GLY:O	2.16	0.45
38:5F:183:LYS:NZ	38:5F:184:GLN:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5J:94:ILE:HG23	39:5J:94:ILE:O	2.15	0.45
35:5R:94:ARG:HH11	44:AI:41:THR:HG21	1.82	0.45
35:5R:513:HIS:CA	35:5R:516:MET:HB3	2.37	0.45
36:5S:183:TYR:HB3	36:5S:187:LEU:HD13	1.98	0.45
36:5S:194:LYS:HD2	36:5S:218:ILE:HD11	1.99	0.45
40:6F:108:VAL:HG12	40:6F:108:VAL:O	2.16	0.45
11:6Q:14:LEU:HD13	11:6Q:165:ILE:HD12	1.98	0.45
35:6R:268:GLU:CG	45:DN:280:GLN:CG	2.16	0.45
35:6R:595:ASP:C	35:6R:595:ASP:OD1	2.54	0.45
45:AB:52:ASN:CG	45:AB:62:ARG:HB3	2.36	0.45
45:AB:61:PRO:HD2	45:AB:84:LEU:O	2.15	0.45
45:AB:270:PHE:CE2	45:AB:273:LEU:HD21	2.49	0.45
44:AC:244:PHE:CZ	44:AC:358:GLN:HG2	2.51	0.45
45:AD:242:PHE:CE1	45:AD:356:ILE:HG21	2.52	0.45
45:AD:320:ARG:HH22	45:AD:357:PRO:CD	2.28	0.45
44:AE:51:THR:O	44:AE:52:PHE:HD1	1.98	0.45
44:AE:62:VAL:HG23	44:AE:63:PRO:HD2	1.99	0.45
44:AG:32:PRO:HB3	44:AG:83:TYR:CE2	2.51	0.45
44:AG:171:ILE:HD13	44:AG:204:LEU:HB2	1.97	0.45
44:AI:64:ARG:NH2	44:AI:128:ASN:OD1	2.49	0.45
45:AJ:272:PRO:HG3	45:AJ:284:LEU:HD11	1.97	0.45
45:AJ:289:LEU:HD12	45:AJ:363:MET:HE1	1.97	0.45
44:AK:344:VAL:HG12	44:AK:346:TRP:H	1.81	0.45
44:AM:13:GLY:O	44:AM:16:VAL:HG12	2.16	0.45
44:AM:277:SER:O	44:AM:281:ALA:HB2	2.16	0.45
44:AM:398:MET:HE2	45:AN:346:PRO:CD	2.47	0.45
45:AN:260:PHE:CZ	45:AN:344:TRP:HH2	2.33	0.45
45:BD:101:TRP:HB3	45:BD:398:TYR:CE1	2.51	0.45
45:BD:201:VAL:HG23	45:BD:301:CYS:SG	2.56	0.45
45:BD:390:ARG:O	45:BD:390:ARG:NH1	2.50	0.45
44:BE:401:LYS:HE2	44:BE:401:LYS:HA	1.98	0.45
44:BE:404:PHE:CD2	45:BF:259:PRO:HA	2.51	0.45
45:BF:2:ARG:NH2	45:BF:240:LEU:HD12	2.32	0.45
45:BF:135:ILE:O	45:BF:166:THR:HA	2.16	0.45
44:BG:271:SER:OG	44:BG:377:MET:SD	2.74	0.45
45:BH:137:HIS:O	45:BH:168:SER:HA	2.16	0.45
45:BH:192:LEU:HG	45:BH:196:ALA:CB	2.46	0.45
45:BL:414:ASN:O	45:BL:417:ASP:HB3	2.16	0.45
44:BM:196:GLU:OE1	44:BM:196:GLU:N	2.49	0.45
45:BN:20:PHE:CE1	45:BN:233:MET:CG	2.99	0.45
45:BN:295:ASP:OD1	45:BN:296:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:41:THR:O	44:CA:42:ILE:HD13	2.16	0.45
44:CA:269:LEU:HD11	44:CA:301:MET:SD	2.56	0.45
45:CB:203:ASP:OD2	45:CB:301:CYS:HB2	2.17	0.45
45:CB:216:LYS:HG2	45:CB:216:LYS:O	2.16	0.45
45:CD:239:CYS:CB	45:CD:248:SER:HB3	2.45	0.45
45:CD:324:LYS:HA	44:CE:210:TYR:CE1	2.51	0.45
44:CE:212:ILE:HG13	44:CE:302:MET:CE	2.46	0.45
44:CE:288:VAL:HA	44:CE:291:ILE:HD11	1.98	0.45
44:CG:136:LEU:HD23	44:CG:167:LEU:HB2	1.98	0.45
45:CH:270:PHE:O	45:CH:273:LEU:HD23	2.16	0.45
45:CJ:252:LYS:HE3	45:CJ:350:LYS:NZ	2.31	0.45
44:CK:173:PRO:HG2	44:CK:391:LEU:HD11	1.97	0.45
45:CN:204:ASN:OD1	45:CN:207:LEU:HD21	2.17	0.45
45:CN:208:TYR:HB3	45:CN:212:PHE:HE2	1.81	0.45
45:CN:208:TYR:O	45:CN:212:PHE:HD2	2.00	0.45
44:DA:224:TYR:HB3	46:DA:501:GTP:O6	2.15	0.45
44:DA:428:LEU:HG	44:DA:432:TYR:CE2	2.51	0.45
45:DB:145:SER:OG	45:DB:184:ASN:HB2	2.16	0.45
45:DD:42:LEU:HD13	45:DD:45:GLU:OE2	2.16	0.45
45:DD:262:ARG:HG2	45:DD:263:LEU:HD12	1.98	0.45
44:DE:13:GLY:CA	44:DE:16:VAL:HG22	2.46	0.45
44:DE:155:GLU:HG2	44:DE:197:HIS:CD2	2.51	0.45
44:DE:416:GLY:O	44:DE:420:GLU:HG2	2.16	0.45
45:DF:257:LEU:HA	45:DF:312:THR:HG23	1.97	0.45
44:DG:317:MET:HB2	44:DG:376:CYS:O	2.15	0.45
45:DH:101:TRP:NE1	45:DH:146:GLY:HA2	2.31	0.45
45:DH:348:ASN:HA	44:DI:181:VAL:CG1	2.45	0.45
44:DI:64:ARG:NH1	44:DI:64:ARG:HG3	2.29	0.45
44:DI:264:ARG:O	44:DI:266:HIS:ND1	2.50	0.45
45:DJ:68:LEU:HG	45:DJ:68:LEU:O	2.15	0.45
44:DK:23:LEU:HD22	44:DK:233:GLN:HA	1.97	0.45
44:DK:312:TYR:O	44:DK:344:VAL:HB	2.16	0.45
45:DL:4:ILE:O	45:DL:62:ARG:HD2	2.17	0.45
45:DL:113:ILE:O	45:DL:116:VAL:HG12	2.16	0.45
45:DL:379:LYS:O	45:DL:382:ALA:HB3	2.16	0.45
44:DM:217:LEU:HD21	44:DM:368:LEU:CD2	2.31	0.45
44:DM:344:VAL:HG22	44:DM:345:ASP:H	1.81	0.45
44:DM:395:PHE:HZ	44:DM:418:PHE:HB3	1.81	0.45
45:DN:282:ARG:HH22	45:DN:292:GLN:HE22	1.63	0.45
45:DN:403:MET:HE2	45:DN:407:GLU:HB2	1.98	0.45
44:EA:183:GLU:HG2	44:EA:184:PRO:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EA:307:PRO:HG3	44:EA:312:TYR:OH	2.15	0.45
45:EB:203:ASP:HB2	45:EB:206:ALA:HB2	1.97	0.45
44:EE:377:MET:O	44:EE:378:ILE:HD13	2.17	0.45
45:EF:210:ILE:O	45:EF:210:ILE:CG2	2.64	0.45
44:EG:189:LEU:HD11	44:EG:418:PHE:CZ	2.51	0.45
45:EH:187:LEU:O	45:EH:190:HIS:HB3	2.16	0.45
45:EH:288:GLU:HA	45:EH:291:GLN:HG2	1.98	0.45
45:EH:303:ALA:HB1	45:EH:373:ALA:O	2.16	0.45
44:EI:69:ASP:OD1	44:EI:71:GLU:N	2.48	0.45
45:EJ:130:LEU:HD21	45:EJ:133:PHE:HZ	1.81	0.45
45:EJ:204:ASN:ND2	45:EJ:207:LEU:HD12	2.30	0.45
45:EJ:266:PHE:CE1	45:EJ:370:ASN:HB2	2.51	0.45
45:EJ:370:ASN:OD1	45:EJ:422:TYR:OH	2.34	0.45
44:EK:54:SER:HB2	44:EK:64:ARG:HE	1.81	0.45
44:EK:337:THR:O	44:EK:339:ARG:HD2	2.16	0.45
44:EM:68:LEU:HD21	44:EM:118:CYS:HB2	1.97	0.45
44:EM:270:SER:HB2	44:EM:378:ILE:HD13	1.99	0.45
45:EN:28:HIS:CD2	45:EN:28:HIS:O	2.70	0.45
45:EN:215:LEU:O	45:EN:216:LYS:HG2	2.17	0.45
44:FA:27:GLU:HA	44:FA:361:THR:HG21	1.98	0.45
44:FA:209:ILE:CG2	44:FA:227:LEU:HD22	2.46	0.45
44:FA:289:ALA:HA	44:FA:292:THR:HG22	1.97	0.45
45:FB:140:GLY:HA2	45:FB:171:PRO:HD3	1.98	0.45
45:FB:265:PHE:CZ	45:FB:418:LEU:HD21	2.51	0.45
44:FC:237:SER:OG	44:FC:320:ARG:NH2	2.49	0.45
44:FC:313:MET:HA	44:FC:344:VAL:CG1	2.45	0.45
44:FC:352:LYS:HD2	45:FF:177:ASP:O	2.16	0.45
45:FD:398:TYR:C	45:FD:403:MET:HB3	2.37	0.45
44:FE:204:LEU:CD1	44:FE:302:MET:HB3	2.47	0.45
44:FG:2:ARG:O	44:FG:3:GLU:HG3	2.15	0.45
45:FH:139:LEU:CD1	45:FH:188:SER:HB2	2.46	0.45
45:FH:181:GLU:N	45:FH:182:PRO:HD2	2.31	0.45
45:FH:198:GLU:OE2	45:FH:254:ALA:HB2	2.15	0.45
44:FK:169:PHE:CE1	44:FK:202:VAL:HG21	2.51	0.45
44:FK:186:ASN:OD1	44:FK:187:SER:N	2.49	0.45
44:FK:212:ILE:CD1	44:FK:215:ARG:HH22	2.28	0.45
44:FM:106:GLY:O	44:FM:149:LEU:N	2.50	0.45
44:FM:149:LEU:HA	44:FM:152:LEU:CB	2.42	0.45
45:FN:25:SER:HG	45:FN:51:TYR:HH	1.62	0.45
45:FN:267:MET:HE2	45:FN:303:ALA:HB3	1.98	0.45
45:FN:295:ASP:OD2	45:FN:298:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:321:MET:HG2	45:FN:321:MET:O	2.16	0.45
44:GA:27:GLU:OE1	44:GA:243:ARG:NH2	2.49	0.45
44:GA:101:ASN:HD22	44:GA:144:GLY:H	1.64	0.45
44:GC:181:VAL:HG12	45:GD:349:ILE:N	2.30	0.45
44:GG:65:ALA:HB1	44:GG:67:PHE:CE1	2.52	0.45
44:GG:109:THR:HG22	44:GG:110:ILE:HG23	1.98	0.45
44:GG:202:VAL:HA	44:GG:268:MET:O	2.15	0.45
45:GH:49:VAL:HG11	45:GH:241:ARG:HD3	1.97	0.45
45:GH:321:MET:HA	45:GH:321:MET:HE1	1.98	0.45
44:GI:175:PRO:HA	44:GI:390:ARG:CZ	2.45	0.45
45:GJ:350:LYS:HG3	45:GJ:351:SER:H	1.81	0.45
44:GK:288:VAL:O	44:GK:291:ILE:HG12	2.16	0.45
44:GK:363:VAL:HG22	44:GK:364:PRO:HD2	1.98	0.45
45:GL:18:ALA:O	45:GL:22:GLU:HG3	2.17	0.45
45:GL:144:GLY:O	45:GL:148:GLY:N	2.46	0.45
45:GL:268:ILE:HB	45:GL:367:PHE:O	2.16	0.45
45:GL:375:GLN:HG3	45:GL:376:GLU:N	2.31	0.45
44:GM:389:SER:HA	44:GM:429:GLU:OE2	2.16	0.45
44:HA:268:MET:SD	44:HA:378:ILE:HG22	2.56	0.45
45:HB:406:MET:O	45:HB:410:GLU:HG3	2.16	0.45
45:HD:70:PRO:HA	45:HD:73:MET:HG3	1.97	0.45
44:HE:270:SER:C	44:HE:302:MET:HE3	2.37	0.45
44:HE:275:ILE:HG23	44:HE:368:LEU:HD11	1.98	0.45
44:HE:316:SER:CA	44:HE:352:LYS:HE3	2.45	0.45
44:HE:363:VAL:HG23	44:HE:364:PRO:HD2	1.99	0.45
45:HF:208:TYR:CE1	45:HF:225:LEU:HD11	2.51	0.45
45:HF:257:LEU:HA	45:HF:312:THR:HG21	1.97	0.45
45:HF:313:ALA:HB3	45:HF:349:ILE:HG22	1.97	0.45
45:HF:398:TYR:HB3	45:HF:403:MET:HE3	1.99	0.45
45:HH:20:PHE:CZ	45:HH:24:ILE:HD11	2.51	0.45
45:HH:113:ILE:O	45:HH:116:VAL:HG12	2.17	0.45
44:HI:107:HIS:C	44:HI:108:TYR:HD1	2.19	0.45
45:HJ:177:ASP:OD2	48:HJ:501:GDP:O2'	2.33	0.45
44:HK:2:ARG:HB2	44:HK:133:GLN:HE21	1.80	0.45
44:HK:11:GLN:NE2	45:HL:247:ASN:H	2.14	0.45
44:HM:194:LEU:HD11	44:HM:267:PHE:HZ	1.81	0.45
44:HM:386:GLU:O	44:HM:390:ARG:HG2	2.16	0.45
45:HN:189:VAL:HG11	45:HN:378:PHE:HE2	1.82	0.45
45:HN:267:MET:HG2	45:HN:369:GLY:C	2.37	0.45
45:HN:309:ARG:HH22	45:HN:342:VAL:CG2	2.28	0.45
44:IA:119:LEU:HG	44:IA:156:ARG:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:182:VAL:HG12	45:IB:256:ASN:ND2	2.31	0.45
44:IA:324:VAL:HG12	44:IA:326:LYS:H	1.80	0.45
45:ID:105:HIS:O	45:ID:150:LEU:HD12	2.16	0.45
45:IF:170:VAL:HG21	45:IF:377:MET:SD	2.56	0.45
45:IF:390:ARG:NH1	45:IF:391:ARG:HD3	2.28	0.45
44:IG:11:GLN:O	44:IG:14:ILE:HB	2.16	0.45
44:IG:210:TYR:CZ	44:IG:227:LEU:HD11	2.51	0.45
44:II:212:ILE:HD11	44:II:300:ASN:HA	1.97	0.45
44:II:261:PRO:HD2	44:II:262:TYR:H	1.81	0.45
44:IK:36:MET:SD	44:IK:38:SER:N	2.89	0.45
45:IL:316:LEU:HG	45:IL:352:SER:CB	2.46	0.45
44:IM:68:LEU:CD2	44:IM:118:CYS:HB2	2.39	0.45
45:JB:52:ASN:HB2	45:JB:60:VAL:HG12	1.95	0.45
44:JE:63:PRO:CG	44:JE:86:LEU:HD21	2.42	0.45
45:JF:214:THR:CB	45:JF:297:LYS:HZ2	2.30	0.45
45:JF:348:ASN:O	45:JF:349:ILE:HD13	2.17	0.45
44:JG:41:THR:HG23	44:JG:42:ILE:N	2.31	0.45
44:JG:93:ILE:HG21	44:JG:114:ILE:HG23	1.99	0.45
44:JG:350:GLY:HA2	45:JJ:179:VAL:CG1	2.47	0.45
45:JH:42:LEU:O	45:JH:42:LEU:HG	2.16	0.45
44:JI:52:PHE:C	44:JI:53:PHE:HD1	2.19	0.45
44:JI:120:ASP:O	44:JI:124:LYS:NZ	2.47	0.45
44:JI:258:ASN:HD21	44:JI:352:LYS:HG3	1.81	0.45
45:JJ:75:SER:HA	45:JJ:78:ALA:HB3	1.98	0.45
45:JJ:200:MET:CG	45:JJ:266:PHE:HB2	2.39	0.45
44:JK:270:SER:HB2	44:JK:378:ILE:CD1	2.47	0.45
45:JL:86:ARG:CD	45:KL:281:TYR:HB3	2.46	0.45
45:JL:147:MET:HA	45:JL:147:MET:CE	2.38	0.45
44:JM:17:GLY:HA2	44:JM:20:CYS:SG	2.57	0.45
45:JN:7:ILE:O	45:JN:135:ILE:HG23	2.15	0.45
45:JN:31:ASP:HB3	45:JN:32:PRO:HD2	1.97	0.45
45:JN:329:GLN:NE2	45:JN:329:GLN:HA	2.31	0.45
45:KB:150:LEU:O	45:KB:153:SER:OG	2.23	0.45
44:KC:22:GLU:HG3	44:KC:83:TYR:CE2	2.52	0.45
44:KC:145:THR:HG22	46:KC:501:GTP:O1B	2.16	0.45
44:KC:238:LEU:CG	44:KC:255:PHE:HE2	2.30	0.45
44:KE:119:LEU:HG	44:KE:156:ARG:HH12	1.81	0.45
45:KF:73:MET:HE1	45:KF:91:VAL:O	2.16	0.45
44:KG:319:TYR:CD1	44:KG:375:VAL:HG23	2.52	0.45
45:KH:293:MET:HE3	45:KH:367:PHE:HD1	1.81	0.45
44:KI:24:PHE:CE2	44:KI:52:PHE:HE2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:224:TYR:O	44:KI:228:ASN:ND2	2.49	0.45
45:KJ:99:ASN:HA	45:KJ:142:GLY:HA3	1.97	0.45
44:KK:319:TYR:CE2	44:KK:328:VAL:HG22	2.52	0.45
45:KL:117:LEU:HD21	45:KL:154:LYS:HZ1	1.79	0.45
45:KL:286:VAL:N	45:KL:287:PRO:CD	2.79	0.45
44:KM:156:ARG:O	44:KM:159:VAL:HG12	2.16	0.45
45:KN:319:GLY:HA2	45:KN:357:PRO:HB3	1.98	0.45
45:LB:44:LEU:HD23	45:LB:47:ILE:CG2	2.36	0.45
45:LD:28:HIS:HA	45:LD:43:GLN:HG2	1.97	0.45
44:LE:56:THR:N	44:LE:57:GLY:CA	2.75	0.45
44:LI:109:THR:CG2	44:LI:110:ILE:N	2.79	0.45
44:LI:204:LEU:HD23	44:LI:302:MET:HG2	1.96	0.45
44:LI:369:ALA:O	44:LI:371:VAL:HG13	2.16	0.45
45:LJ:286:VAL:HG22	45:LJ:363:MET:CE	2.46	0.45
44:LK:75:ILE:O	44:LK:79:ARG:HG3	2.16	0.45
44:LK:98:ASP:O	44:LK:105:ARG:NH1	2.50	0.45
45:LL:285:THR:OG1	45:LL:287:PRO:HG2	2.16	0.45
44:LM:318:MET:CG	44:LM:354:GLY:HA3	2.35	0.45
44:LM:344:VAL:HG22	44:LM:345:ASP:N	2.31	0.45
45:LN:248:SER:CA	45:LN:252:LYS:HD2	2.45	0.45
44:MA:166:LYS:O	44:MA:167:LEU:HD12	2.16	0.45
44:MA:244:PHE:HB2	44:MA:356:ASN:OD1	2.16	0.45
45:MB:305:PRO:HA	45:MB:373:ALA:HB3	1.98	0.45
44:MC:3:GLU:HG3	44:MC:129:CYS:HB3	1.98	0.45
44:MC:184:PRO:HA	44:MC:187:SER:OG	2.17	0.45
44:MC:212:ILE:HD13	44:MC:215:ARG:HH22	1.80	0.45
45:MD:99:ASN:CA	45:MD:142:GLY:HA3	2.40	0.45
45:MD:399:THR:HA	45:MD:403:MET:O	2.16	0.45
44:ME:27:GLU:HB2	44:ME:361:THR:HG21	1.96	0.45
44:ME:208:ALA:CB	44:ME:304:LYS:HE2	2.46	0.45
45:MF:207:LEU:HD23	45:MF:225:LEU:CB	2.46	0.45
45:MF:263:LEU:HG	45:MF:422:TYR:CD1	2.50	0.45
44:MG:276:ILE:HD13	44:MG:281:ALA:HA	1.97	0.45
45:MH:206:ALA:O	45:MH:209:ASP:N	2.49	0.45
45:MH:248:SER:HA	45:MH:252:LYS:HD2	1.97	0.45
45:MH:372:THR:HA	45:MH:422:TYR:HE2	1.78	0.45
44:MI:121:ARG:HA	44:MI:121:ARG:HE	1.81	0.45
44:MI:251:ASP:HB2	44:MI:253:THR:HG22	1.98	0.45
45:ML:19:LYS:HA	45:ML:19:LYS:CE	2.41	0.45
44:MM:236:SER:O	44:MM:240:ALA:HB2	2.16	0.45
45:MN:286:VAL:N	45:MN:287:PRO:CD	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:107:HIS:O	44:NA:107:HIS:ND1	2.49	0.45
44:NA:396:ASP:CB	44:NA:422:ARG:HH12	2.29	0.45
44:NC:254:GLU:HG3	45:NF:98:GLY:CA	2.46	0.45
44:NC:307:PRO:HB3	44:NC:312:TYR:OH	2.17	0.45
45:ND:320:ARG:HE	45:ND:355:ASP:CB	2.27	0.45
45:ND:396:HIS:NE2	45:ND:397:TRP:NE1	2.63	0.45
44:NE:175:PRO:HG2	44:NE:304:LYS:CG	2.46	0.45
44:NE:311:LYS:HE2	44:NE:342:GLN:CG	2.46	0.45
44:NE:344:VAL:HG13	44:NE:346:TRP:O	2.15	0.45
44:NG:113:GLU:OE1	44:NG:113:GLU:N	2.48	0.45
44:NG:138:PHE:CE1	44:NG:169:PHE:HD2	2.34	0.45
44:NG:177:VAL:HG22	44:NG:207:GLU:HG3	1.98	0.45
44:NG:221:ARG:HH22	45:NH:321:MET:HA	1.81	0.45
45:NH:105:HIS:NE2	45:NH:150:LEU:HB2	2.32	0.45
45:NH:180:VAL:HG12	45:NH:180:VAL:O	2.15	0.45
44:NI:301:MET:HE3	44:NI:307:PRO:HG3	1.98	0.45
45:NJ:201:VAL:O	45:NJ:202:ILE:HD13	2.17	0.45
44:NK:91:GLN:HB3	44:NK:121:ARG:NH1	2.31	0.45
44:NK:311:LYS:HZ1	44:NK:344:VAL:HB	1.80	0.45
45:NL:323:THR:HA	45:NL:326:VAL:CG2	2.46	0.45
44:NM:276:ILE:CG1	44:NM:371:VAL:HB	2.46	0.45
44:NM:404:PHE:CD1	45:NN:259:PRO:HA	2.52	0.45
45:NN:86:ARG:NH1	45:ON:278:SER:HA	2.30	0.45
45:NN:241:ARG:C	45:NN:242:PHE:HD1	2.18	0.45
44:OA:89:PRO:HG2	44:PA:280:LYS:HD2	1.98	0.45
44:OA:195:LEU:HA	44:OA:266:HIS:CE1	2.51	0.45
44:OA:287:SER:O	44:OA:291:ILE:HG23	2.16	0.45
44:OA:311:LYS:HB2	44:OA:344:VAL:CG2	2.42	0.45
44:OC:204:LEU:HD22	44:OC:302:MET:HE2	1.97	0.45
45:OD:77:ARG:HA	45:OD:82:GLY:CA	2.46	0.45
44:OE:93:ILE:HG21	44:OE:117:LEU:HB3	1.98	0.45
44:OE:306:ASP:OD1	44:OE:309:HIS:N	2.48	0.45
45:OF:22:GLU:O	45:OF:25:SER:HB3	2.17	0.45
45:OF:65:LEU:HD22	45:OF:90:PHE:CE1	2.51	0.45
45:OF:248:SER:HA	45:OF:252:LYS:CE	2.47	0.45
45:OF:372:THR:HA	45:OF:422:TYR:HE2	1.80	0.45
44:OI:102:ASN:HB3	44:OI:105:ARG:HB2	1.99	0.45
44:OI:179:THR:HG23	45:OJ:351:SER:H	1.80	0.45
44:OK:141:VAL:O	44:OK:186:ASN:HB3	2.16	0.45
45:OL:28:HIS:ND1	45:OL:43:GLN:OE1	2.49	0.45
45:OL:113:ILE:HG13	45:OL:116:VAL:CG1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:192:LEU:HD22	45:OL:196:ALA:HB2	1.98	0.45
45:OL:269:GLY:HA2	45:OL:300:MET:CE	2.46	0.45
45:OL:392:LYS:HG3	45:OL:395:LEU:CD2	2.46	0.45
44:OM:69:ASP:OD2	44:OM:74:VAL:HG23	2.16	0.45
44:OM:224:TYR:CE1	45:ON:323:THR:HG21	2.50	0.45
44:OM:259:LEU:HD23	44:OM:314:ALA:HB1	1.98	0.45
45:ON:192:LEU:HG	45:ON:196:ALA:CB	2.45	0.45
45:ON:385:PHE:CE2	45:ON:412:GLU:HB2	2.51	0.45
44:PA:288:VAL:HA	44:PA:291:ILE:HG12	1.98	0.45
44:PA:291:ILE:HA	44:PA:294:SER:OG	2.16	0.45
44:PA:401:LYS:O	44:PA:402:ARG:HG2	2.15	0.45
44:PA:403:ALA:O	44:PA:404:PHE:HB2	2.16	0.45
45:PB:338:SER:HA	45:PB:341:PHE:HB2	1.97	0.45
44:PC:154:LEU:HB3	44:PC:166:LYS:HZ2	1.81	0.45
44:PC:208:ALA:HB2	44:PC:304:LYS:HB2	1.98	0.45
45:PD:42:LEU:HD23	45:PD:243:PRO:HD2	1.98	0.45
45:PF:257:LEU:HD21	45:PF:314:SER:CB	2.46	0.45
44:PG:5:ILE:CD1	44:PG:132:LEU:HD11	2.46	0.45
44:PG:171:ILE:HD12	44:PG:171:ILE:N	2.31	0.45
44:PG:310:GLY:C	44:PG:311:LYS:HD3	2.37	0.45
45:PH:146:GLY:CA	45:PH:149:THR:HG22	2.46	0.45
45:PH:332:ASN:HD21	45:PH:336:LYS:NZ	2.14	0.45
44:PI:99:ALA:HB3	44:PI:145:THR:CG2	2.46	0.45
45:PJ:163:ILE:HA	45:PJ:197:ASP:OD2	2.16	0.45
45:PJ:212:PHE:O	45:PJ:216:LYS:HA	2.16	0.45
45:PJ:224:ASP:O	45:PJ:228:LEU:HD23	2.17	0.45
45:PL:223:GLY:O	45:PL:227:HIS:N	2.35	0.45
44:PM:291:ILE:O	44:PM:294:SER:HB2	2.16	0.45
45:PN:137:HIS:HE1	45:PN:166:THR:HB	1.81	0.45
45:PN:286:VAL:CB	45:PN:325:GLU:HG2	2.46	0.45
44:QA:68:LEU:HG	44:QA:93:ILE:CD1	2.45	0.45
45:QB:67:ASP:O	45:QB:92:PHE:HA	2.16	0.45
45:QB:100:ASN:C	45:QB:142:GLY:HA3	2.37	0.45
45:QB:216:LYS:HG2	45:QB:275:SER:HB2	1.99	0.45
44:QC:238:LEU:HD23	44:QC:239:THR:HG23	1.97	0.45
45:QD:8:GLN:HE21	45:QD:14:ASN:HA	1.81	0.45
45:QD:103:LYS:CG	45:QD:108:GLU:HG3	2.46	0.45
44:QE:6:SER:C	44:QE:7:ILE:HD13	2.36	0.45
44:QE:269:LEU:HD11	44:QE:301:MET:HE3	1.98	0.45
44:QG:10:GLY:O	44:QG:14:ILE:N	2.44	0.45
44:QG:107:HIS:ND1	44:QG:107:HIS:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:204:ASN:O	45:QH:207:LEU:HB2	2.16	0.45
45:QH:232:ALA:CB	45:QH:268:ILE:HD12	2.42	0.45
45:QH:245:GLN:HB2	45:QH:353:ILE:HB	1.98	0.45
45:QJ:146:GLY:O	45:QJ:149:THR:HG22	2.16	0.45
45:QJ:203:ASP:HB2	45:QJ:300:MET:O	2.17	0.45
44:QK:280:LYS:HD2	44:QK:283:HIS:HD2	1.81	0.45
45:QL:25:SER:OG	45:QL:51:TYR:OH	2.20	0.45
45:QL:141:GLY:HA2	48:QL:501:GDP:O2A	2.16	0.45
45:QL:378:PHE:HA	45:QL:381:VAL:HB	1.96	0.45
45:RB:374:ILE:HG13	45:RB:375:GLN:N	2.30	0.45
45:RB:395:LEU:HG	45:RB:399:THR:HG23	1.98	0.45
44:RC:258:ASN:CG	45:RD:179:VAL:HG12	2.36	0.45
45:RD:199:CYS:HB3	45:RD:264:HIS:O	2.15	0.45
45:RF:16:ILE:HD12	45:RF:16:ILE:H	1.80	0.45
45:RF:68:LEU:HD23	45:RF:97:ALA:CB	2.44	0.45
45:RF:86:ARG:HA	45:SF:281:TYR:CE2	2.51	0.45
45:RF:211:CYS:HB3	45:RF:217:LEU:HD21	1.99	0.45
45:RF:256:ASN:O	45:RF:257:LEU:HD12	2.16	0.45
45:RF:261:PRO:HB3	44:RG:406:HIS:CD2	2.50	0.45
45:RH:286:VAL:HG11	44:RI:221:ARG:HH22	1.81	0.45
44:RI:169:PHE:HB3	44:RI:204:LEU:HD12	1.97	0.45
44:RI:174:SER:HB2	44:RI:177:VAL:HG13	1.97	0.45
45:RJ:113:ILE:HA	45:RJ:116:VAL:HG12	1.97	0.45
44:RK:4:VAL:HG11	44:RK:52:PHE:HE1	1.78	0.45
44:RK:200:VAL:CG2	44:RK:256:GLN:HB3	2.46	0.45
44:RK:268:MET:HE3	44:RK:380:ASN:N	2.31	0.45
45:RL:253:LEU:O	45:RL:257:LEU:HB2	2.16	0.45
44:RM:68:LEU:HG	44:RM:93:ILE:HD13	1.97	0.45
44:RM:68:LEU:CG	44:RM:93:ILE:HD13	2.46	0.45
45:RN:262:ARG:NH1	45:RN:421:GLU:OE1	2.50	0.45
45:RN:331:LEU:HG	45:RN:335:ASN:OD1	2.16	0.45
44:SA:348:PRO:CG	45:SB:384:GLN:HB3	2.46	0.45
45:SB:25:SER:O	45:SB:28:HIS:CB	2.63	0.45
45:SB:114:ASP:CA	45:SB:117:LEU:HB3	2.42	0.45
45:SB:206:ALA:HB2	45:SB:301:CYS:HA	1.97	0.45
45:SB:372:THR:OG1	45:SB:377:MET:N	2.49	0.45
44:SC:105:ARG:HB3	44:SC:411:GLU:OE1	2.16	0.45
44:SC:215:ARG:CZ	44:SC:299:ALA:HB1	2.47	0.45
44:SC:287:SER:O	44:SC:291:ILE:N	2.41	0.45
45:SD:239:CYS:SG	45:SD:248:SER:OG	2.72	0.45
45:SF:256:ASN:CB	45:SF:350:LYS:HD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:22:GLU:HG3	44:SG:83:TYR:CE2	2.50	0.45
44:SG:419:SER:O	44:SG:423:GLU:N	2.48	0.45
44:SI:51:THR:HG22	44:SI:52:PHE:HD1	1.77	0.45
44:SI:93:ILE:HD12	44:SI:93:ILE:H	1.81	0.45
44:SI:254:GLU:HG2	45:SJ:98:GLY:HA3	1.94	0.45
45:SJ:83:GLN:HA	45:SJ:83:GLN:OE1	2.16	0.45
45:SJ:416:ASN:O	45:SJ:419:VAL:HB	2.17	0.45
44:SK:131:GLY:O	44:SK:133:GLN:NE2	2.46	0.45
44:SK:238:LEU:HD23	44:SK:238:LEU:O	2.16	0.45
45:SL:144:GLY:HA3	48:SL:501:GDP:O1B	2.16	0.45
45:SL:184:ASN:HA	45:SL:187:LEU:HB2	1.99	0.45
44:SM:62:VAL:HG12	44:SM:63:PRO:O	2.17	0.45
44:TA:169:PHE:CE1	44:TA:202:VAL:HG21	2.52	0.45
44:TA:211:ASP:O	44:TA:215:ARG:HD3	2.17	0.45
44:TA:242:LEU:CD1	44:TA:252:ILE:HD11	2.43	0.45
44:TA:294:SER:HA	44:TA:297:GLU:CG	2.45	0.45
44:TA:405:VAL:HG12	44:TA:409:VAL:HG23	1.99	0.45
45:TB:7:ILE:HB	45:TB:135:ILE:HD11	1.98	0.45
45:TB:24:ILE:HG22	45:TB:51:TYR:HE2	1.80	0.45
45:TB:24:ILE:HG22	45:TB:51:TYR:CE2	2.50	0.45
45:TB:294:PHE:CZ	45:TB:333:VAL:HG21	2.51	0.45
44:TC:235:ILE:HA	44:TC:238:LEU:CG	2.46	0.45
45:TD:107:THR:HG21	45:TD:401:GLU:HB3	1.98	0.45
44:TE:305:CYS:SG	44:TE:384:ILE:HD12	2.56	0.45
44:TE:344:VAL:HG22	44:TE:345:ASP:N	2.31	0.45
45:TF:151:LEU:O	45:TF:154:LYS:HB2	2.16	0.45
44:TG:247:ALA:N	44:TG:357:TYR:OH	2.49	0.45
44:TI:191:THR:HG21	44:TI:388:PHE:CE1	2.51	0.45
45:TJ:130:LEU:CB	45:TJ:162:ARG:HE	2.25	0.45
45:TJ:183:TYR:O	45:TJ:186:THR:HG22	2.16	0.45
44:TK:102:ASN:HA	44:TK:408:TYR:OH	2.17	0.45
44:TK:104:ALA:H	44:TK:408:TYR:HE2	1.64	0.45
45:TL:295:ASP:OD2	45:TL:297:LYS:HG2	2.17	0.45
45:TL:391:ARG:HA	45:TL:391:ARG:HD2	1.70	0.45
44:TM:89:PRO:HG3	44:UM:280:LYS:HB3	1.99	0.45
45:TN:16:ILE:HD13	45:TN:226:ASN:OD1	2.16	0.45
45:TN:275:SER:O	45:TN:279:GLN:HB2	2.16	0.45
44:UA:75:ILE:HG22	44:UA:79:ARG:CZ	2.46	0.45
45:UB:8:GLN:O	45:UB:66:MET:HG2	2.15	0.45
45:UB:166:THR:HG1	45:UB:199:CYS:HA	1.80	0.45
45:UB:313:ALA:HB1	45:UB:367:PHE:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:317:PHE:CD2	45:UB:365:VAL:HG21	2.50	0.45
44:UC:71:GLU:O	44:UC:74:VAL:HG22	2.17	0.45
44:UC:213:CYS:HA	44:UC:217:LEU:CD1	2.43	0.45
44:UC:263:PRO:HD3	45:UD:396:HIS:HD2	1.80	0.45
45:UD:318:ARG:CZ	45:UD:357:PRO:HA	2.46	0.45
45:UD:324:LYS:HD2	44:UE:210:TYR:HB3	1.95	0.45
45:UF:321:MET:HE3	44:UG:221:ARG:HH22	1.81	0.45
44:UG:89:PRO:HG3	44:VE:280:LYS:HZ2	1.81	0.45
44:UG:258:ASN:HD21	44:UG:352:LYS:HD3	1.81	0.45
45:UH:116:VAL:HA	45:UH:119:VAL:HG22	1.97	0.45
44:UI:6:SER:OG	44:UI:65:ALA:HA	2.16	0.45
44:UI:259:LEU:HD23	44:UI:314:ALA:HB1	1.97	0.45
45:UJ:5:VAL:CG1	45:UJ:62:ARG:HD3	2.32	0.45
44:UK:111:GLY:HA2	44:UK:149:LEU:HD11	1.99	0.45
44:UK:154:LEU:HA	44:UK:157:LEU:HD12	1.98	0.45
44:UK:183:GLU:HG2	44:UK:184:PRO:N	2.32	0.45
44:UK:350:GLY:CA	45:UL:179:VAL:HG12	2.44	0.45
44:UK:437:ILE:HG13	44:UK:437:ILE:O	2.15	0.45
45:UL:91:VAL:O	45:UL:91:VAL:HG23	2.16	0.45
44:UM:88:HIS:ND1	44:UM:90:GLU:HG2	2.30	0.45
44:UM:182:VAL:C	44:UM:184:PRO:HD2	2.36	0.45
44:VA:262:TYR:HB3	44:VA:263:PRO:HD2	1.98	0.45
44:VC:222:PRO:HG2	45:VD:324:LYS:CD	2.45	0.45
44:VC:237:SER:HA	44:VC:320:ARG:NH1	2.31	0.45
45:VD:374:ILE:HA	45:VD:377:MET:SD	2.56	0.45
44:VE:262:TYR:HB2	44:VE:265:ILE:HD12	1.98	0.45
44:VE:412:GLY:O	44:VE:413:MET:HE2	2.16	0.45
45:VF:17:GLY:CA	45:VF:20:PHE:HB3	2.39	0.45
45:VF:22:GLU:HA	45:VF:81:PHE:CE2	2.51	0.45
44:VG:88:HIS:HB3	44:VG:91:GLN:CG	2.46	0.45
44:VG:115:VAL:O	44:VG:119:LEU:HD23	2.15	0.45
44:VG:203:MET:HB3	44:VG:303:ALA:CB	2.46	0.45
45:VH:1:MET:HE3	45:VH:129:CYS:HB3	1.98	0.45
45:VJ:150:LEU:O	45:VJ:150:LEU:HD23	2.16	0.45
44:VK:229:ARG:O	44:VK:232:ALA:N	2.45	0.45
45:VL:139:LEU:HG	45:VL:188:SER:CB	2.43	0.45
44:VM:119:LEU:CA	44:VM:122:ILE:HG12	2.43	0.45
44:VM:269:LEU:HD12	44:VM:301:MET:CG	2.45	0.45
44:VM:427:ALA:CA	44:VM:430:LYS:HG2	2.44	0.45
45:VN:166:THR:O	45:VN:200:MET:N	2.45	0.45
45:VN:274:THR:HB	45:VN:282:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VN:285:THR:O	45:VN:287:PRO:CD	2.64	0.45
45:VN:345:ILE:CG2	45:VN:348:ASN:HD22	2.17	0.45
44:WA:320:ARG:HG3	44:WA:374:ALA:HB3	1.98	0.45
45:WB:161:ASP:O	45:WB:162:ARG:NH2	2.50	0.45
45:WB:221:THR:O	45:WB:224:ASP:HB2	2.16	0.45
44:WC:224:TYR:CD1	44:WC:227:LEU:HD12	2.51	0.45
44:WC:346:TRP:CZ2	44:WC:435:VAL:HG13	2.48	0.45
45:WD:58:ARG:HG3	45:WD:58:ARG:O	2.15	0.45
44:WE:71:GLU:OE1	44:WE:73:THR:HB	2.16	0.45
44:WG:126:ALA:HB1	44:WG:132:LEU:HD23	1.98	0.45
44:WG:274:PRO:HB3	44:WG:291:ILE:CD1	2.47	0.45
44:WG:406:HIS:ND1	45:WH:261:PRO:HD3	2.31	0.45
45:WH:165:GLU:OE2	45:WH:200:MET:CE	2.64	0.45
45:WH:166:THR:OG1	45:WH:199:CYS:HA	2.16	0.45
44:WI:287:SER:CA	44:WI:290:GLU:HG2	2.46	0.45
44:WK:47:ASP:HB3	44:WK:49:PHE:CE1	2.51	0.45
44:WK:229:ARG:HG3	44:WK:230:LEU:HD22	1.98	0.45
44:WK:231:ILE:HA	44:WK:234:VAL:HG23	1.98	0.45
44:WM:11:GLN:O	44:WM:15:GLN:HG2	2.16	0.45
44:WM:93:ILE:HD12	44:WM:93:ILE:H	1.81	0.45
44:WM:294:SER:O	44:WM:297:GLU:HB2	2.16	0.45
3:0B:246:LYS:HD3	45:JL:26:ASP:OD1	2.16	0.45
5:0D:15:THR:HB	45:CB:1:MET:CE	2.46	0.45
5:0D:183:ALA:HB2	45:EB:53:GLU:HG3	1.95	0.45
7:0F:36:LYS:NZ	44:DE:72:PRO:HB3	2.31	0.45
10:0N:14:CYS:SG	45:IN:47:ILE:HG22	2.55	0.45
5:1D:94:ASN:OD1	44:EG:26:LEU:HD22	2.17	0.45
8:1G:165:TYR:H	44:KA:45:GLY:N	2.13	0.45
9:1H:115:ARG:HH12	45:HL:280:GLN:HG2	1.78	0.45
19:1I:180:ASP:CB	45:KH:77:ARG:HD2	2.44	0.45
20:1J:262:VAL:HG23	44:II:372:MET:HB3	1.98	0.45
22:1L:410:LYS:NZ	45:BH:53:GLU:HG2	2.31	0.45
15:1V:33:PRO:HB2	44:MI:304:LYS:HZ1	1.81	0.45
16:1X:75:LEU:HD12	45:MF:280:GLN:NE2	2.30	0.45
30:2G:29:ARG:HB3	44:JG:1:MET:HE3	1.94	0.45
31:2H:180:ILE:HA	45:AD:224:ASP:OD1	2.17	0.45
32:2I:95:LYS:HE3	45:GF:332:ASN:OD1	2.15	0.45
32:3I:215:ILE:HG23	44:GK:214:ARG:HH21	1.76	0.45
31:4H:170:ILE:CG1	35:5R:84:PRO:HG2	2.29	0.45
35:4R:80:ARG:NH2	44:ME:31:GLN:OE1	2.49	0.45
16:4X:100:LYS:HD3	44:KG:58:ALA:HB1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5B:146:VAL:HG21	44:NG:225:THR:CB	2.46	0.45
38:5E:174:ALA:CB	45:KD:156:ARG:HH12	2.27	0.45
11:5Q:3:LYS:O	11:5Q:4:ASN:HB3	2.17	0.45
35:5R:119:TYR:HB2	35:5R:128:HIS:HB3	1.98	0.45
35:5R:425:ARG:HH11	35:5R:425:ARG:HG3	1.81	0.45
36:5S:87:ILE:HD13	36:5S:122:GLN:CG	2.47	0.45
36:5S:183:TYR:CB	36:5S:187:LEU:HD13	2.46	0.45
41:6G:187:ILE:HG13	44:VE:299:ALA:HB2	1.98	0.45
11:6Q:173:SER:O	11:6Q:177:LEU:HG	2.17	0.45
35:7R:118:LEU:CG	35:7R:127:ILE:HD11	2.45	0.45
35:7R:386:PRO:HB3	45:EB:280:GLN:HB2	1.98	0.45
35:7R:548:PHE:HD2	35:7R:549:MET:SD	2.40	0.45
44:AA:39:ASP:OD2	44:AA:40:LYS:NZ	2.48	0.45
44:AA:91:GLN:HG3	44:AA:92:LEU:HD12	1.98	0.45
44:AA:178:SER:HG	45:AB:347:ASN:HB3	1.80	0.45
45:AB:3:GLU:HG3	45:AB:62:ARG:NH1	2.31	0.45
45:AB:267:MET:HE2	45:AB:371:SER:HB3	1.98	0.45
44:AC:319:TYR:CD2	44:AC:375:VAL:HG22	2.52	0.45
45:AD:4:ILE:HG13	45:AD:50:TYR:CE1	2.51	0.45
45:AD:86:ARG:HH12	45:BD:282:ARG:N	2.13	0.45
44:AE:224:TYR:HA	44:AE:227:LEU:HB2	1.98	0.45
45:AF:289:LEU:HD13	45:AF:365:VAL:HG13	1.99	0.45
44:AG:280:LYS:HZ1	44:MG:90:GLU:HB3	1.82	0.45
45:AH:12:CYS:SG	45:AH:138:SER:HB2	2.57	0.45
45:AH:317:PHE:HB2	45:AH:353:ILE:HD13	1.97	0.45
44:AI:175:PRO:HB2	44:AI:176:GLN:OE1	2.17	0.45
45:AL:18:ALA:HB2	45:AL:76:VAL:HG23	1.97	0.45
45:AL:170:VAL:CG1	45:AL:171:PRO:HD2	2.46	0.45
45:AL:350:LYS:HG2	45:AL:351:SER:N	2.31	0.45
44:AM:27:GLU:CD	44:AM:243:ARG:HH22	2.19	0.45
44:AM:243:ARG:HG3	44:AM:244:PHE:CE2	2.51	0.45
45:AN:58:ARG:NH1	45:BN:280:GLN:OE1	2.45	0.45
44:BA:182:VAL:C	44:BA:184:PRO:HD2	2.37	0.45
44:BA:235:ILE:O	44:BA:239:THR:HG23	2.17	0.45
45:BD:31:ASP:HB3	45:BD:32:PRO:CD	2.45	0.45
44:BE:413:MET:SD	44:BE:414:GLU:N	2.89	0.45
45:BF:156:ARG:CD	45:BF:195:ASN:HB3	2.45	0.45
44:BI:141:VAL:HG22	44:BI:187:SER:HA	1.97	0.45
44:BI:179:THR:HG23	45:BJ:351:SER:OG	2.17	0.45
44:BI:210:TYR:HD2	45:BJ:324:LYS:HD2	1.80	0.45
45:BJ:295:ASP:CG	45:BJ:297:LYS:HG2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:368:VAL:HG23	45:BJ:368:VAL:O	2.16	0.45
44:BK:207:GLU:O	44:BK:210:TYR:HB2	2.16	0.45
44:BK:224:TYR:CD1	46:BK:501:GTP:C6	3.05	0.45
45:BL:163:ILE:HG13	45:BL:163:ILE:O	2.16	0.45
44:CA:141:VAL:CG1	44:CA:172:TYR:HA	2.47	0.45
45:CB:68:LEU:HD23	45:CB:96:GLY:C	2.37	0.45
45:CB:251:ARG:O	45:CB:254:ALA:N	2.48	0.45
45:CB:252:LYS:HE2	44:CC:98:ASP:OD2	2.16	0.45
45:CB:363:MET:HA	45:CB:363:MET:HE3	1.98	0.45
45:CB:375:GLN:HG3	45:CB:376:GLU:N	2.31	0.45
45:CB:378:PHE:CA	45:CB:381:VAL:HG22	2.46	0.45
44:CC:60:LYS:HD3	44:DC:283:HIS:CD2	2.52	0.45
44:CC:68:LEU:CD2	44:CC:118:CYS:HB2	2.30	0.45
44:CE:200:VAL:HG21	44:CE:256:GLN:HB3	1.98	0.45
44:CG:72:PRO:HG3	44:CG:94:SER:OG	2.17	0.45
44:CG:348:PRO:CG	45:CH:384:GLN:HG3	2.46	0.45
44:CG:349:THR:O	45:CH:179:VAL:HG12	2.15	0.45
45:CH:73:MET:CE	45:CH:92:PHE:HB3	2.47	0.45
44:CI:11:GLN:HB2	46:CI:501:GTP:O1B	2.17	0.45
45:CJ:365:VAL:HG23	45:CJ:365:VAL:O	2.16	0.45
44:CK:262:TYR:OH	45:CL:391:ARG:HB3	2.17	0.45
45:CL:221:THR:O	45:CL:224:ASP:HB2	2.16	0.45
45:CL:396:HIS:HA	45:CL:399:THR:CG2	2.45	0.45
44:CM:89:PRO:HG3	44:DM:280:LYS:CD	2.42	0.45
44:CM:103:PHE:N	44:CM:408:TYR:HE1	2.13	0.45
44:CM:109:THR:HG22	44:CM:110:ILE:HG23	1.98	0.45
45:CN:1:MET:C	45:CN:2:ARG:HG2	2.36	0.45
45:CN:217:LEU:CD1	45:CN:220:PRO:HG3	2.47	0.45
44:DA:145:THR:HG23	44:DA:146:GLY:N	2.31	0.45
45:DB:1:MET:CE	44:DC:96:LYS:HD3	2.46	0.45
45:DB:119:VAL:CA	45:DB:122:LYS:HG2	2.41	0.45
44:DC:324:VAL:CG1	44:DC:326:LYS:HG3	2.47	0.45
45:DD:81:PHE:HA	45:DD:84:LEU:HD13	1.96	0.45
45:DD:211:CYS:HB3	45:DD:220:PRO:HG3	1.97	0.45
45:DF:117:LEU:CD2	45:DF:121:ARG:HH22	2.28	0.45
44:DG:254:GLU:HG2	45:DH:98:GLY:HA2	1.96	0.45
44:DG:348:PRO:CB	45:DH:384:GLN:NE2	2.79	0.45
45:DH:173:PRO:HD3	45:DH:380:ARG:HH11	1.81	0.45
45:DH:271:ALA:HA	45:DH:298:ASN:HD21	1.81	0.45
45:DH:384:GLN:HA	45:DH:384:GLN:OE1	2.16	0.45
44:DI:255:PHE:CZ	44:DI:259:LEU:HD12	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:80:PRO:O	45:DL:81:PHE:HB2	2.16	0.45
45:DL:198:GLU:OE2	45:DL:254:ALA:HB2	2.16	0.45
45:DL:203:ASP:OD2	45:DL:301:CYS:HA	2.16	0.45
44:DM:324:VAL:HG12	44:DM:326:LYS:HG3	1.98	0.45
45:DN:21:TRP:CE3	45:DN:24:ILE:HD12	2.51	0.45
45:DN:21:TRP:CZ2	45:DN:63:ALA:HB2	2.51	0.45
44:EA:198:THR:HB	44:EA:266:HIS:CE1	2.52	0.45
44:EA:349:THR:OG1	45:EB:176:SER:HB2	2.16	0.45
45:EB:260:PHE:HB2	45:EB:263:LEU:HD13	1.96	0.45
44:EC:14:ILE:HG21	44:EC:74:VAL:HG22	1.99	0.45
44:EC:254:GLU:HB3	45:ED:99:ASN:OD1	2.16	0.45
45:ED:149:THR:HG23	45:ED:150:LEU:N	2.31	0.45
45:ED:248:SER:CA	45:ED:252:LYS:HD2	2.15	0.45
45:EF:101:TRP:HD1	45:EF:145:SER:OG	1.99	0.45
45:EF:344:TRP:HB3	45:EF:430:ALA:HB2	1.99	0.45
44:EG:210:TYR:CE1	44:EG:227:LEU:HD21	2.52	0.45
44:EG:226:ASN:ND2	44:EG:367:ASP:OD2	2.46	0.45
44:EG:262:TYR:CE1	45:EH:393:ALA:HA	2.52	0.45
44:EG:319:TYR:O	44:EG:356:ASN:N	2.49	0.45
45:EH:113:ILE:HD12	45:EH:150:LEU:HD22	1.98	0.45
44:EI:428:LEU:HG	44:EI:432:TYR:CE2	2.51	0.45
45:EJ:18:ALA:O	45:EJ:22:GLU:HG3	2.15	0.45
45:EJ:68:LEU:CD2	45:EJ:97:ALA:HA	2.43	0.45
44:EK:386:GLU:CB	44:EK:390:ARG:HH12	2.29	0.45
45:EL:323:THR:HB	44:EM:224:TYR:HE2	1.77	0.45
44:FA:49:PHE:O	44:FA:53:PHE:HD2	1.98	0.45
44:FA:105:ARG:HG2	44:FA:411:GLU:CG	2.43	0.45
45:FB:6:HIS:NE2	45:FB:8:GLN:HB3	2.31	0.45
45:FB:313:ALA:HB1	45:FB:367:PHE:HE1	1.79	0.45
44:FC:7:ILE:HD13	44:FC:66:VAL:HG12	1.97	0.45
45:FD:42:LEU:CA	45:FD:45:GLU:HG3	2.38	0.45
45:FD:371:SER:O	45:FD:374:ILE:HG23	2.16	0.45
44:FE:273:ALA:HB1	44:FE:274:PRO:HA	1.98	0.45
44:FG:403:ALA:HB2	45:FH:344:TRP:HZ3	1.81	0.45
45:FH:36:TYR:OH	45:FH:38:GLY:HA3	2.16	0.45
45:FH:207:LEU:HD13	45:FH:225:LEU:HB3	1.97	0.45
45:FH:260:PHE:HB3	45:FH:261:PRO:CD	2.42	0.45
44:FI:264:ARG:HG2	44:FI:264:ARG:NH1	2.31	0.45
44:FK:88:HIS:HB3	44:FK:91:GLN:HG2	1.97	0.45
44:FK:269:LEU:HD23	44:FK:269:LEU:H	1.82	0.45
45:FL:101:TRP:CE3	45:FL:187:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:53:PHE:CD2	44:FM:63:PRO:HG3	2.52	0.45
45:GB:318:ARG:HB3	45:GB:357:PRO:CA	2.46	0.45
45:GD:131:GLN:O	45:GD:163:ILE:HG12	2.15	0.45
45:GF:181:GLU:HB2	45:GF:182:PRO:HD3	1.97	0.45
44:GG:400:ALA:CB	44:GG:401:LYS:HZ3	2.28	0.45
45:GH:127:CYS:SG	45:GH:130:LEU:HB2	2.57	0.45
44:GI:70:LEU:HD11	44:GI:149:LEU:HD23	1.98	0.45
44:GK:138:PHE:O	44:GK:139:ASN:HB3	2.16	0.45
44:GK:157:LEU:HB2	44:GK:166:LYS:HE2	1.99	0.45
44:GK:210:TYR:HB3	45:GL:324:LYS:CD	2.43	0.45
44:GK:289:ALA:O	44:GK:292:THR:HG22	2.16	0.45
44:GM:28:HIS:NE2	44:GM:48:ALA:O	2.50	0.45
44:GM:135:PHE:HB2	44:GM:166:LYS:CG	2.46	0.45
44:GM:209:ILE:CG2	44:GM:227:LEU:HD23	2.46	0.45
45:GN:377:MET:O	45:GN:380:ARG:HG2	2.17	0.45
44:HA:289:ALA:O	44:HA:292:THR:HG22	2.16	0.45
45:HB:2:ARG:HA	45:HB:129:CYS:SG	2.56	0.45
45:HB:210:ILE:O	45:HB:214:THR:N	2.24	0.45
45:HB:211:CYS:O	45:HB:217:LEU:HD23	2.15	0.45
44:HC:11:GLN:O	44:HC:14:ILE:N	2.49	0.45
44:HC:332:ILE:HD12	44:HC:351:PHE:HD2	1.80	0.45
45:HD:99:ASN:HA	45:HD:142:GLY:CA	2.43	0.45
45:HF:165:GLU:OE2	45:HF:200:MET:HG3	2.17	0.45
44:HG:250:VAL:CG1	44:HG:318:MET:HE1	2.45	0.45
44:HI:89:PRO:HB3	44:II:280:LYS:NZ	2.30	0.45
44:HI:320:ARG:NH2	44:HI:360:PRO:HA	2.32	0.45
44:HI:362:VAL:HG11	44:HI:370:LYS:CB	2.46	0.45
45:HJ:184:ASN:OD1	45:HJ:185:ALA:N	2.50	0.45
44:HK:105:ARG:HG2	44:HK:411:GLU:CD	2.37	0.45
44:HK:191:THR:O	44:HK:195:LEU:HB2	2.17	0.45
45:HL:101:TRP:CD1	45:HL:105:HIS:HB2	2.51	0.45
45:HL:200:MET:HE3	45:HL:268:ILE:CG2	2.46	0.45
44:HM:21:TRP:CE3	44:HM:24:PHE:HD2	2.35	0.45
44:IA:70:LEU:HD21	44:IA:114:ILE:HD13	1.98	0.45
44:IA:100:ALA:HB1	45:IB:255:VAL:HG21	1.98	0.45
45:IB:301:CYS:HB3	45:IB:377:MET:HE1	1.98	0.45
44:IC:291:ILE:HD13	44:IC:373:ARG:CB	2.39	0.45
44:IC:319:TYR:CZ	44:IC:375:VAL:HG21	2.51	0.45
45:ID:12:CYS:HB3	45:ID:138:SER:CB	2.46	0.45
44:IE:7:ILE:HD12	44:IE:66:VAL:CG1	2.46	0.45
44:IE:244:PHE:HD2	44:IE:358:GLN:HB3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IE:317:MET:O	44:IE:318:MET:HE2	2.16	0.45
44:IG:323:VAL:HG21	44:IG:328:VAL:HG23	1.98	0.45
45:IH:49:VAL:HG12	45:IH:240:LEU:HD23	1.98	0.45
45:IL:88:ASP:CG	45:IL:151:LEU:HD22	2.35	0.45
45:IL:297:LYS:O	45:IL:297:LYS:HG2	2.15	0.45
44:IM:108:TYR:CA	44:IM:112:LYS:HE3	2.44	0.45
44:IM:254:GLU:O	44:IM:258:ASN:ND2	2.49	0.45
45:JB:45:GLU:HG2	45:JB:46:ARG:NH1	2.31	0.45
45:JB:309:ARG:NH2	45:JB:342:VAL:HG23	2.31	0.45
44:JE:137:VAL:HG21	44:JE:154:LEU:HD21	1.99	0.45
44:JG:141:VAL:HG11	44:JG:172:TYR:CD1	2.51	0.45
44:JI:119:LEU:HD23	44:JI:156:ARG:HD3	1.98	0.45
44:JI:261:PRO:HG2	44:JI:313:MET:HE3	1.97	0.45
45:JJ:106:TYR:O	45:JJ:110:ALA:HB3	2.17	0.45
45:JJ:167:PHE:HE2	45:JJ:233:MET:HB2	1.81	0.45
45:JJ:201:VAL:HG21	45:JJ:377:MET:HE1	1.98	0.45
45:JJ:296:ALA:HB1	45:JJ:306:ARG:HH21	1.81	0.45
45:JJ:309:ARG:O	45:JJ:372:THR:HG23	2.17	0.45
44:JK:277:SER:HA	44:JK:367:ASP:O	2.16	0.45
44:JM:154:LEU:HD13	44:JM:194:LEU:CD1	2.30	0.45
44:JM:226:ASN:OD1	44:JM:227:LEU:N	2.49	0.45
45:KB:117:LEU:HA	45:KB:120:VAL:HG12	1.98	0.45
45:KB:382:ALA:HB2	45:KB:415:MET:CE	2.46	0.45
45:KD:170:VAL:O	45:KD:170:VAL:HG23	2.17	0.45
44:KE:12:GLY:O	44:KE:16:VAL:HG23	2.16	0.45
45:KF:150:LEU:O	45:KF:154:LYS:HG2	2.17	0.45
45:KF:175:VAL:O	45:KF:175:VAL:HG23	2.16	0.45
45:KF:233:MET:O	45:KF:236:VAL:HG22	2.16	0.45
45:KF:293:MET:HE3	45:KF:315:ALA:CB	2.46	0.45
44:KG:74:VAL:HG23	44:KG:75:ILE:N	2.32	0.45
44:KG:90:GLU:HG3	44:KG:121:ARG:NH1	2.30	0.45
44:KG:320:ARG:NE	44:KG:360:PRO:HG3	2.31	0.45
45:KH:27:GLU:OE2	45:KH:242:PHE:HE2	1.99	0.45
45:KH:130:LEU:HD21	45:KH:133:PHE:CE1	2.51	0.45
44:KI:99:ALA:CB	44:KI:145:THR:HB	2.41	0.45
44:KI:112:LYS:HG2	44:KI:113:GLU:OE1	2.16	0.45
45:KJ:285:THR:CG2	45:KJ:288:GLU:H	2.29	0.45
44:KK:261:PRO:HB3	45:KN:394:PHE:CE2	2.51	0.45
45:KN:65:LEU:HB3	45:KN:73:MET:SD	2.56	0.45
45:KN:163:ILE:CD1	45:KN:251:ARG:NE	2.79	0.45
45:LB:207:LEU:HA	45:LB:210:ILE:CD1	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:231:ALA:HB1	45:LB:270:PHE:CE1	2.51	0.45
44:LE:112:LYS:HA	44:LE:115:VAL:HG12	1.97	0.45
44:LE:248:LEU:H	44:LE:355:ILE:CB	2.28	0.45
45:LF:180:VAL:HG22	45:LF:180:VAL:O	2.16	0.45
44:LG:54:SER:CB	44:LG:64:ARG:NH1	2.79	0.45
44:LG:141:VAL:HG22	44:LG:172:TYR:HA	1.97	0.45
45:LH:222:TYR:HD1	45:LH:225:LEU:HD12	1.79	0.45
44:LI:21:TRP:CZ3	44:LI:63:PRO:CB	3.00	0.45
44:LI:111:GLY:HA2	44:LI:149:LEU:HD21	1.97	0.45
44:LI:174:SER:OG	44:LI:177:VAL:HG13	2.16	0.45
45:LJ:291:GLN:OE1	45:LJ:291:GLN:HA	2.16	0.45
45:LL:61:PRO:HD2	45:LL:84:LEU:O	2.16	0.45
44:LM:117:LEU:HA	44:LM:120:ASP:HB2	1.97	0.45
44:LM:150:GLY:O	44:LM:153:LEU:N	2.49	0.45
45:LN:183:TYR:OH	45:LN:389:PHE:HA	2.17	0.45
46:MA:501:GTP:C8	45:MB:246:LEU:HD21	2.52	0.45
44:ME:19:ALA:HA	44:ME:22:GLU:OE1	2.16	0.45
44:ME:396:ASP:O	44:ME:400:ALA:N	2.49	0.45
45:MF:36:TYR:CE1	45:MF:44:LEU:HD11	2.51	0.45
45:MF:418:LEU:O	45:MF:422:TYR:HB2	2.16	0.45
44:MG:49:PHE:O	44:MG:53:PHE:N	2.49	0.45
45:MH:47:ILE:O	45:MH:47:ILE:HG22	2.16	0.45
44:MI:75:ILE:HG22	44:MI:79:ARG:CZ	2.46	0.45
44:MI:183:GLU:HG2	44:MI:184:PRO:CD	2.46	0.45
45:MJ:276:ARG:NH2	45:MJ:279:GLN:OE1	2.49	0.45
44:MK:13:GLY:O	44:MK:16:VAL:HG12	2.15	0.45
45:ML:86:ARG:C	45:ML:88:ASP:H	2.16	0.45
45:ML:217:LEU:HD22	45:ML:220:PRO:CD	2.47	0.45
44:MM:31:GLN:CG	44:MM:32:PRO:HD2	2.40	0.45
44:MM:316:SER:C	44:MM:352:LYS:HE3	2.36	0.45
45:MN:3:GLU:OE2	45:MN:127:CYS:HB2	2.17	0.45
45:MN:36:TYR:CD2	45:MN:44:LEU:HD11	2.52	0.45
45:MN:100:ASN:OD1	45:MN:103:LYS:HB2	2.16	0.45
44:NA:227:LEU:H	44:NA:227:LEU:HD12	1.82	0.45
44:NA:279:GLU:O	44:NA:279:GLU:OE1	2.35	0.45
45:NB:33:THR:O	45:NB:58:ARG:NE	2.49	0.45
45:NB:165:GLU:CG	45:NB:198:GLU:HB3	2.46	0.45
44:NC:250:VAL:CG2	44:NC:352:LYS:HE2	2.46	0.45
45:ND:169:VAL:O	45:ND:169:VAL:HG23	2.16	0.45
45:ND:242:PHE:CD1	45:ND:356:ILE:HG13	2.51	0.45
45:ND:317:PHE:O	45:ND:354:CYS:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:263:LEU:HD11	45:NF:422:TYR:CD2	2.51	0.45
44:NG:206:ASN:HA	44:NG:209:ILE:HD12	1.97	0.45
45:NH:61:PRO:CG	45:NH:84:LEU:HB3	2.30	0.45
45:NH:152:ILE:HD12	45:NH:152:ILE:H	1.82	0.45
44:NI:288:VAL:CG1	44:NI:323:VAL:HG12	2.45	0.45
44:NI:288:VAL:HG11	44:NI:323:VAL:HG12	1.98	0.45
44:NI:344:VAL:HG12	44:NI:346:TRP:H	1.81	0.45
44:NI:413:MET:SD	44:NI:417:GLU:HG3	2.57	0.45
45:NJ:165:GLU:HA	45:NJ:198:GLU:HB2	1.97	0.45
45:NJ:256:ASN:ND2	45:NJ:350:LYS:HD2	2.31	0.45
44:NK:174:SER:HB2	44:NK:177:VAL:O	2.15	0.45
45:NL:31:ASP:HB2	45:NL:32:PRO:HD2	1.99	0.45
45:NL:117:LEU:CD2	45:NL:154:LYS:HD3	2.43	0.45
45:NL:391:ARG:NE	45:NL:393:ALA:HB3	2.32	0.45
44:NM:344:VAL:HG22	44:NM:345:ASP:N	2.31	0.45
44:NM:414:GLU:HB3	44:NM:417:GLU:CD	2.36	0.45
45:OB:55:THR:HG23	45:PB:283:ALA:HA	1.98	0.45
45:OB:133:PHE:HB2	45:OB:164:MET:HG2	1.97	0.45
45:OB:232:ALA:O	45:OB:235:GLY:N	2.48	0.45
45:OB:323:THR:O	45:OB:326:VAL:HB	2.16	0.45
44:OC:50:ASN:HA	44:OC:53:PHE:O	2.16	0.45
44:OC:104:ALA:HB1	44:OC:411:GLU:HB3	1.97	0.45
44:OC:209:ILE:HD11	44:OC:302:MET:O	2.17	0.45
44:OC:371:VAL:HG23	44:OC:373:ARG:O	2.16	0.45
44:OC:430:LYS:HA	44:OC:433:GLU:CG	2.41	0.45
45:OD:2:ARG:HD2	45:OD:240:LEU:HG	1.97	0.45
45:OD:337:ASN:O	45:OD:341:PHE:HD2	2.00	0.45
44:OE:56:THR:HG23	44:OE:58:ALA:H	1.81	0.45
44:OE:349:THR:O	44:OE:349:THR:HG23	2.16	0.45
44:OE:417:GLU:O	44:OE:420:GLU:N	2.50	0.45
44:OG:119:LEU:CD2	44:OG:156:ARG:HG2	2.44	0.45
45:OH:60:VAL:CG2	45:OH:86:ARG:HB2	2.46	0.45
45:OH:163:ILE:HG23	45:OH:197:ASP:HB3	1.97	0.45
45:OH:203:ASP:HB2	45:OH:302:ALA:HB2	1.97	0.45
44:OI:4:VAL:HG13	44:OI:134:GLY:C	2.36	0.45
44:OI:265:ILE:HG23	44:OI:432:TYR:CE1	2.51	0.45
44:OI:275:ILE:HD12	44:OI:368:LEU:HD11	1.98	0.45
45:OJ:5:VAL:HG22	45:OJ:133:PHE:CD1	2.52	0.45
45:OJ:211:CYS:O	45:OJ:217:LEU:HD23	2.16	0.45
44:OM:89:PRO:CD	44:PM:280:LYS:HD2	2.46	0.45
45:ON:30:ILE:HG12	45:ON:36:TYR:CA	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ON:324:LYS:O	45:ON:328:GLU:OE1	2.35	0.45
44:PA:70:LEU:HD13	44:PA:110:ILE:HD12	1.97	0.45
44:PA:110:ILE:O	44:PA:114:ILE:HG12	2.17	0.45
44:PA:215:ARG:CZ	44:PA:299:ALA:HB1	2.46	0.45
45:PB:227:HIS:HA	45:PB:230:SER:HB3	1.99	0.45
45:PB:289:LEU:HD13	45:PB:365:VAL:HG23	1.97	0.45
45:PB:320:ARG:O	45:PB:320:ARG:HG2	2.16	0.45
44:PC:14:ILE:CD1	44:PC:69:ASP:HB2	2.45	0.45
44:PC:325:PRO:O	44:PC:328:VAL:N	2.49	0.45
45:PD:309:ARG:CZ	45:PD:342:VAL:HA	2.47	0.45
44:PE:26:LEU:HD21	44:PE:362:VAL:O	2.16	0.45
44:PE:230:LEU:HD12	44:PE:275:ILE:HD13	1.97	0.45
44:PE:261:PRO:HA	45:PH:394:PHE:HD2	1.81	0.45
45:PF:42:LEU:CD2	45:PF:243:PRO:HG2	2.44	0.45
45:PF:245:GLN:HG2	45:PF:355:ASP:OD1	2.17	0.45
45:PH:91:VAL:O	45:PH:91:VAL:HG23	2.16	0.45
44:PI:119:LEU:HD21	44:PI:156:ARG:HD3	1.98	0.45
44:PK:31:GLN:NE2	44:PK:37:PRO:HB3	2.31	0.45
44:PK:265:ILE:HG12	44:PK:432:TYR:CZ	2.52	0.45
44:PK:320:ARG:HD3	44:PK:360:PRO:HG3	1.97	0.45
44:PM:260:VAL:HG13	44:PM:265:ILE:O	2.16	0.45
45:PN:178:THR:N	45:PN:181:GLU:OE2	2.45	0.45
45:PN:342:VAL:HG13	45:PN:345:ILE:CG2	2.45	0.45
45:QB:133:PHE:CD2	45:QB:155:VAL:HG11	2.51	0.45
45:QB:223:GLY:HA2	45:QB:226:ASN:HB2	1.99	0.45
45:QB:331:LEU:HA	45:QB:334:GLN:NE2	2.31	0.45
45:QB:416:ASN:HA	45:QB:419:VAL:HB	1.97	0.45
44:QC:110:ILE:O	44:QC:110:ILE:HG22	2.15	0.45
44:QG:265:ILE:HD11	44:QG:435:VAL:HG21	1.98	0.45
45:QH:10:GLY:O	45:QH:14:ASN:N	2.42	0.45
45:QH:69:GLU:OE1	45:QH:71:GLY:N	2.49	0.45
45:QH:350:LYS:HD2	44:QI:179:THR:O	2.16	0.45
44:QI:31:GLN:HB3	44:QI:32:PRO:CD	2.47	0.45
44:QI:409:VAL:O	44:QI:409:VAL:HG12	2.16	0.45
45:QJ:68:LEU:HD23	45:QJ:97:ALA:N	2.30	0.45
45:QJ:147:MET:HA	45:QJ:150:LEU:HB2	1.98	0.45
45:QJ:286:VAL:HB	45:QJ:287:PRO:HD3	1.97	0.45
44:QK:258:ASN:HD22	44:QK:352:LYS:CD	2.20	0.45
44:QK:287:SER:O	44:QK:291:ILE:HG12	2.17	0.45
45:QL:416:ASN:O	45:QL:420:SER:CB	2.64	0.45
44:QM:13:GLY:O	44:QM:16:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:48:ALA:HB1	44:QM:243:ARG:HG2	1.97	0.45
44:QM:188:ILE:CG2	44:QM:421:ALA:HB1	2.46	0.45
45:QN:238:CYS:HB2	45:QN:318:ARG:NE	2.31	0.45
44:RA:271:SER:HA	44:RA:302:MET:CE	2.46	0.45
45:RB:68:LEU:HG	45:RB:96:GLY:HA2	1.97	0.45
45:RD:63:ALA:C	45:RD:89:ASN:HD22	2.18	0.45
45:RD:114:ASP:O	45:RD:118:ASP:HB2	2.16	0.45
45:RD:135:ILE:O	45:RD:166:THR:HA	2.16	0.45
45:RD:222:TYR:HA	45:RD:225:LEU:HG	1.98	0.45
45:RD:322:SER:O	44:RE:221:ARG:NH2	2.47	0.45
45:RD:344:TRP:CE2	44:RE:401:LYS:HE3	2.51	0.45
44:RE:75:ILE:O	44:RE:92:LEU:HD21	2.15	0.45
44:RE:89:PRO:CB	44:SE:280:LYS:HG3	2.46	0.45
44:RE:175:PRO:HG2	44:RE:304:LYS:CG	2.47	0.45
45:RF:315:ALA:O	45:RF:351:SER:HA	2.16	0.45
45:RF:417:ASP:HA	45:RF:420:SER:HB3	1.99	0.45
44:RG:76:ASP:HA	44:RG:79:ARG:HD3	1.97	0.45
44:RG:87:PHE:HB3	44:RG:92:LEU:CD1	2.46	0.45
44:RG:257:THR:HG21	45:RH:98:GLY:O	2.17	0.45
45:RH:3:GLU:HA	45:RH:49:VAL:HG23	1.98	0.45
45:RH:265:PHE:HB2	45:RH:374:ILE:HD12	1.97	0.45
44:RI:26:LEU:CD2	44:RI:363:VAL:HA	2.47	0.45
45:RJ:49:VAL:HG21	45:RJ:241:ARG:HG2	1.97	0.45
45:RJ:189:VAL:HB	45:RJ:415:MET:HE3	1.98	0.45
45:RJ:352:SER:C	45:RJ:353:ILE:HD12	2.37	0.45
44:RK:386:GLU:C	44:RK:389:SER:HG	2.19	0.45
45:RL:8:GLN:NE2	45:RL:14:ASN:O	2.49	0.45
45:RL:138:SER:CA	45:RL:169:VAL:HB	2.46	0.45
44:RM:232:ALA:O	44:RM:235:ILE:HB	2.17	0.45
45:RN:3:GLU:HB3	45:RN:49:VAL:HA	1.97	0.45
45:RN:119:VAL:O	45:RN:123:GLU:HG3	2.17	0.45
45:RN:168:SER:O	45:RN:201:VAL:HA	2.17	0.45
45:RN:316:LEU:CB	45:RN:366:THR:HB	2.33	0.45
44:SA:76:ASP:C	44:SA:80:THR:HG1	2.11	0.45
44:SA:79:ARG:O	44:SA:84:ARG:HB3	2.15	0.45
44:SA:101:ASN:HA	44:SA:144:GLY:N	2.31	0.45
45:SB:12:CYS:HB3	45:SB:138:SER:HB2	1.98	0.45
45:SB:30:ILE:HD13	45:SB:36:TYR:CD1	2.49	0.45
45:SB:73:MET:HE2	45:SB:90:PHE:HD1	1.81	0.45
45:SD:52:ASN:HB3	45:SD:60:VAL:HG13	1.98	0.45
45:SD:324:LYS:HZ1	44:SE:214:ARG:NH2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:259:LEU:HD12	44:SE:268:MET:CE	2.44	0.45
44:SE:277:SER:O	44:SE:281:ALA:HB2	2.17	0.45
45:SH:132:GLY:HA3	45:SH:163:ILE:HG12	1.98	0.45
45:SJ:115:SER:O	45:SJ:119:VAL:N	2.44	0.45
45:SJ:257:LEU:CD1	45:SJ:258:ILE:CD1	2.94	0.45
44:SK:22:GLU:HG3	44:SK:83:TYR:CE2	2.51	0.45
44:SK:316:SER:HG	44:SK:378:ILE:HB	1.78	0.45
45:SL:63:ALA:C	45:SL:64:ILE:HD12	2.37	0.45
44:SM:11:GLN:HB3	44:SM:74:VAL:CG2	2.39	0.45
44:SM:320:ARG:HA	44:SM:356:ASN:C	2.37	0.45
44:SM:326:LYS:HE2	45:SN:220:PRO:HD2	1.98	0.45
44:SM:353:VAL:HG22	44:SM:354:GLY:N	2.31	0.45
44:TA:84:ARG:NH1	44:TA:85:GLN:OE1	2.49	0.45
45:TB:252:LYS:HA	45:TB:255:VAL:HG23	1.99	0.45
44:TC:414:GLU:HB2	44:TC:417:GLU:HG2	1.97	0.45
44:TE:103:PHE:CD2	44:TE:189:LEU:HD13	2.51	0.45
44:TE:176:GLN:HG2	44:TE:177:VAL:N	2.30	0.45
44:TE:390:ARG:HG3	44:TE:391:LEU:HD12	1.97	0.45
45:TF:71:GLY:O	45:TF:75:SER:HB3	2.16	0.45
45:TF:121:ARG:HA	45:TF:121:ARG:NE	2.31	0.45
45:TF:248:SER:CA	45:TF:252:LYS:HD2	2.45	0.45
45:TH:181:GLU:HB2	45:TH:182:PRO:HD3	1.98	0.45
45:TH:330:MET:SD	45:TH:349:ILE:HB	2.57	0.45
44:TI:22:GLU:O	44:TI:26:LEU:N	2.36	0.45
44:TI:87:PHE:O	44:UI:283:HIS:NE2	2.49	0.45
44:TI:109:THR:O	44:TI:110:ILE:HD13	2.16	0.45
44:TK:254:GLU:CD	45:TL:98:GLY:HA2	2.37	0.45
44:TK:301:MET:HG3	44:TK:307:PRO:CG	2.47	0.45
45:TL:4:ILE:HB	45:TL:134:GLN:NE2	2.31	0.45
45:TL:217:LEU:HD11	45:TL:220:PRO:CG	2.46	0.45
45:TL:254:ALA:O	45:TL:258:ILE:HD13	2.15	0.45
45:TL:290:THR:HG21	45:TL:329:GLN:OE1	2.16	0.45
45:TL:346:PRO:HB2	44:TM:394:LYS:HZ2	1.81	0.45
45:TL:423:GLN:O	45:TL:426:GLN:HB3	2.17	0.45
44:TM:54:SER:CB	44:TM:64:ARG:HH22	2.23	0.45
44:TM:107:HIS:CE1	44:TM:152:LEU:HD13	2.51	0.45
44:TM:258:ASN:ND2	45:TN:179:VAL:HG22	2.30	0.45
44:TM:260:VAL:HG22	44:TM:262:TYR:O	2.16	0.45
44:TM:296:PHE:CE2	44:TM:335:ILE:HG13	2.50	0.45
45:TN:290:THR:HG1	45:TN:329:GLN:CD	2.12	0.45
45:TN:420:SER:O	45:TN:423:GLN:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:130:LEU:HD21	45:UB:133:PHE:CZ	2.52	0.45
45:UB:130:LEU:HG	45:UB:162:ARG:HD3	1.97	0.45
45:UB:141:GLY:O	45:UB:145:SER:OG	2.25	0.45
45:UD:138:SER:HG	48:UD:501:GDP:H4'	1.80	0.45
45:UD:217:LEU:O	45:UD:220:PRO:HD3	2.16	0.45
45:UD:257:LEU:CA	45:UD:312:THR:HG21	2.46	0.45
44:UE:3:GLU:OE1	44:UE:131:GLY:N	2.45	0.45
45:UF:171:PRO:CG	45:UF:181:GLU:HG3	2.44	0.45
45:UF:296:ALA:HB3	45:UF:306:ARG:CZ	2.46	0.45
44:UG:13:GLY:CA	44:UG:16:VAL:HG22	2.45	0.45
44:UG:157:LEU:HD23	44:UG:166:LYS:CD	2.43	0.45
44:UG:412:GLY:C	44:UG:413:MET:HE2	2.37	0.45
45:UH:2:ARG:HG3	45:UH:240:LEU:HD11	1.99	0.45
45:UH:46:ARG:HH22	44:UI:72:PRO:CB	2.27	0.45
45:UH:68:LEU:HD23	45:UH:97:ALA:CB	2.45	0.45
45:UH:202:ILE:HD13	45:UH:229:VAL:HG22	1.98	0.45
45:UJ:42:LEU:HD23	45:UJ:356:ILE:HD11	1.97	0.45
45:UJ:139:LEU:HD23	45:UJ:188:SER:OG	2.16	0.45
44:UK:3:GLU:HA	44:UK:51:THR:O	2.16	0.45
45:UL:4:ILE:HD11	45:UL:50:TYR:CE1	2.51	0.45
45:UL:384:GLN:HB3	45:UL:388:MET:CE	2.43	0.45
44:UM:141:VAL:HG21	44:UM:172:TYR:CE1	2.51	0.45
44:VA:6:SER:C	44:VA:7:ILE:HD13	2.37	0.45
44:VA:289:ALA:O	44:VA:292:THR:HG22	2.16	0.45
44:VA:350:GLY:HA2	45:VD:179:VAL:HG23	1.96	0.45
45:VB:334:GLN:HG3	45:VB:341:PHE:CD1	2.51	0.45
44:VC:358:GLN:HG3	44:VC:359:PRO:HD2	1.98	0.45
45:VD:309:ARG:NH2	45:VD:341:PHE:O	2.50	0.45
44:VE:108:TYR:CD1	44:VE:413:MET:HE1	2.50	0.45
44:VE:324:VAL:HG12	44:VE:326:LYS:H	1.79	0.45
45:VF:323:THR:O	45:VF:326:VAL:HB	2.16	0.45
44:VG:60:LYS:HD2	44:VG:85:GLN:OE1	2.16	0.45
44:VG:174:SER:HB3	44:VG:207:GLU:HB2	1.97	0.45
44:VG:204:LEU:HD22	44:VG:302:MET:HE2	1.98	0.45
44:VG:294:SER:CA	44:VG:297:GLU:HG3	2.39	0.45
45:VH:49:VAL:HG21	45:VH:241:ARG:CG	2.43	0.45
45:VH:112:LEU:O	45:VH:112:LEU:HD23	2.16	0.45
45:VH:262:ARG:O	45:VH:263:LEU:HD12	2.17	0.45
44:VI:141:VAL:CG1	44:VI:172:TYR:HD1	2.29	0.45
44:VK:135:PHE:HB2	44:VK:166:LYS:CG	2.43	0.45
44:VM:269:LEU:HD12	44:VM:301:MET:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VM:289:ALA:O	44:VM:293:ASN:N	2.36	0.45
45:VN:30:ILE:HD13	45:VN:36:TYR:HA	1.97	0.45
45:VN:276:ARG:HD3	45:VN:279:GLN:OE1	2.16	0.45
45:WB:184:ASN:HA	45:WB:187:LEU:CD1	2.46	0.45
44:WC:258:ASN:HB2	45:WF:179:VAL:HG22	1.98	0.45
45:WD:392:LYS:CG	45:WD:395:LEU:HD23	2.45	0.45
44:WE:3:GLU:CD	44:WE:129:CYS:HA	2.37	0.45
44:WG:142:GLY:C	46:WG:501:GTP:H5'	2.36	0.45
44:WG:242:LEU:HD11	44:WG:252:ILE:CD1	2.47	0.45
45:WJ:251:ARG:O	45:WJ:255:VAL:N	2.50	0.45
45:WJ:296:ALA:CB	45:WJ:305:PRO:HG2	2.46	0.45
44:WK:387:VAL:HA	44:WK:390:ARG:HG2	1.97	0.45
45:WL:256:ASN:O	45:WL:257:LEU:HD12	2.15	0.45
1:6H:174:MET:HG2	45:FB:320:ARG:CD	2.45	0.45
2:0A:34:LEU:HD22	45:MB:42:LEU:HD22	1.97	0.45
4:0C:89:PHE:HE2	44:EI:18:ASN:CG	2.19	0.45
5:0D:41:TYR:HA	44:DC:79:ARG:CZ	2.45	0.45
5:1D:38:ILE:HG12	44:DG:85:GLN:OE1	2.15	0.45
5:1D:72:GLN:OE1	45:DF:56:GLY:N	2.49	0.45
10:1N:159:PRO:HB2	45:KJ:215:LEU:HD22	1.98	0.45
25:1P:395:GLN:OE1	44:TA:362:VAL:HG11	2.15	0.45
2:2A:39:TYR:CZ	44:MI:78:VAL:HG22	2.52	0.45
6:2E:61:LYS:HD2	45:DJ:37:HIS:O	2.16	0.45
29:2F:75:LEU:HB3	45:HF:337:ASN:ND2	2.30	0.45
16:2X:107:ASP:OD1	44:MG:279:GLU:HA	2.16	0.45
26:3R:97:ARG:HE	44:AK:42:ILE:CD1	2.29	0.45
26:3R:249:LYS:HG2	44:BK:58:ALA:HB1	1.98	0.45
12:3S:312:THR:HG22	44:AM:402:ARG:CG	2.38	0.45
13:3T:132:PRO:CB	44:MK:123:ARG:HH12	2.30	0.45
37:5B:113:VAL:HG11	44:NE:370:LYS:HD3	1.98	0.45
37:5D:38:THR:O	44:KK:262:TYR:HD2	1.99	0.45
37:5D:38:THR:HG22	44:KK:265:ILE:HD11	1.98	0.45
38:5F:116:TYR:CD1	44:NE:85:GLN:HG2	2.51	0.45
38:5F:137:VAL:HG11	45:OH:215:LEU:HD22	1.99	0.45
38:5G:48:ARG:NH2	38:5G:50:GLU:HA	2.32	0.45
38:5G:119:GLU:CD	38:5G:120:GLU:H	2.19	0.45
39:5J:104:THR:HB	39:5J:105:PRO:HD3	1.98	0.45
11:5Q:45:SER:HB3	45:WL:125:GLU:OE2	2.16	0.45
35:5R:454:MET:HE1	35:5R:456:TYR:CD2	2.52	0.45
41:6G:284:LYS:O	41:6G:287:VAL:HB	2.16	0.45
35:7R:82:GLN:CB	35:7R:87:LYS:HB2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:306:ARG:HG3	35:7R:306:ARG:O	2.16	0.45
35:7R:409:PRO:O	35:7R:411:LYS:HD3	2.16	0.45
35:7R:547:GLU:CA	35:7R:550:VAL:HG12	2.45	0.45
42:8N:341:UNK:O	42:8N:345:UNK:N	2.50	0.45
43:8P:119:UNK:O	44:PI:58:ALA:HB1	2.16	0.45
43:8R:272:UNK:O	43:8R:276:UNK:N	2.50	0.45
44:AA:102:ASN:HB3	44:AA:105:ARG:HG3	1.98	0.45
44:AA:185:TYR:CE1	44:AA:398:MET:HB3	2.52	0.45
44:AA:428:LEU:HG	44:AA:432:TYR:CE2	2.52	0.45
45:AB:270:PHE:CG	45:AB:271:ALA:N	2.85	0.45
45:AB:275:SER:O	45:AB:279:GLN:HB2	2.17	0.45
44:AC:19:ALA:HB2	44:AC:228:ASN:HB3	1.98	0.45
44:AC:66:VAL:HG13	44:AC:66:VAL:O	2.17	0.45
44:AC:200:VAL:HG13	44:AC:268:MET:SD	2.56	0.45
45:AD:230:SER:HA	45:AD:233:MET:HE3	1.98	0.45
44:AE:137:VAL:O	44:AE:168:GLY:HA2	2.17	0.45
44:AG:62:VAL:HG13	44:AG:62:VAL:O	2.16	0.45
45:AH:294:PHE:CD2	45:AH:333:VAL:HG21	2.51	0.45
45:AJ:193:VAL:HA	45:AJ:264:HIS:NE2	2.31	0.45
45:AJ:251:ARG:HH11	45:AJ:251:ARG:HG3	1.82	0.45
44:AK:254:GLU:O	44:AK:254:GLU:HG2	2.16	0.45
45:AL:218:THR:HG23	45:AL:219:THR:N	2.31	0.45
45:AN:45:GLU:OE2	45:AN:243:PRO:HD3	2.17	0.45
45:AN:113:ILE:HD13	45:AN:150:LEU:CD2	2.46	0.45
45:AN:358:PRO:HD3	45:AN:359:LYS:HA	1.98	0.45
44:BA:115:VAL:HG22	44:BA:156:ARG:HD2	1.96	0.45
44:BA:319:TYR:CD2	44:BA:323:VAL:HG21	2.51	0.45
44:BC:306:ASP:HB3	44:BC:309:HIS:ND1	2.32	0.45
44:BC:326:LYS:CB	45:BF:220:PRO:HG2	2.43	0.45
45:BD:302:ALA:H	45:BD:377:MET:CE	2.29	0.45
45:BD:317:PHE:HB2	45:BD:352:SER:O	2.15	0.45
44:BE:115:VAL:HG22	44:BE:119:LEU:CD2	2.45	0.45
44:BE:288:VAL:O	44:BE:292:THR:HG23	2.16	0.45
44:BE:326:LYS:HD3	45:BH:208:TYR:CD2	2.51	0.45
44:BG:8:HIS:CD2	44:BG:17:GLY:HA3	2.51	0.45
44:BI:96:LYS:O	45:BJ:1:MET:HE2	2.16	0.45
45:BJ:34:GLY:O	45:BJ:58:ARG:HA	2.16	0.45
45:BJ:180:VAL:O	45:BJ:180:VAL:HG22	2.17	0.45
44:BK:221:ARG:HD2	45:BL:322:SER:CB	2.38	0.45
45:BL:34:GLY:O	45:BL:58:ARG:HA	2.16	0.45
45:BL:294:PHE:HE2	45:BL:333:VAL:HG11	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:278:ALA:HA	44:BM:369:ALA:HB2	1.98	0.45
45:BN:221:THR:HG23	45:BN:223:GLY:H	1.80	0.45
44:CA:290:GLU:O	44:CA:294:SER:N	2.39	0.45
45:CB:63:ALA:C	45:CB:64:ILE:HD12	2.37	0.45
45:CB:289:LEU:HD11	45:CB:363:MET:HB2	1.98	0.45
44:CC:11:GLN:HE22	46:CC:501:GTP:PB	2.39	0.45
45:CD:136:THR:O	45:CD:136:THR:HG23	2.16	0.45
44:CE:320:ARG:HH12	44:CE:360:PRO:N	2.14	0.45
45:CF:4:ILE:CG2	45:CF:131:GLN:HB3	2.47	0.45
45:CF:131:GLN:O	45:CF:131:GLN:HG3	2.16	0.45
44:CG:124:LYS:HZ2	44:DG:286:LEU:N	2.15	0.45
44:CG:311:LYS:HD2	44:CG:342:GLN:CG	2.47	0.45
44:CG:348:PRO:HG3	45:CH:384:GLN:HG3	1.99	0.45
44:CI:88:HIS:CG	44:CI:89:PRO:HD2	2.50	0.45
44:CI:103:PHE:HB3	44:CI:408:TYR:HE1	1.81	0.45
45:CJ:342:VAL:HG21	45:CJ:344:TRP:NE1	2.32	0.45
45:CL:190:HIS:O	45:CL:193:VAL:HG22	2.17	0.45
45:CL:237:THR:HG1	45:CL:240:LEU:HB3	1.81	0.45
44:CM:2:ARG:HH22	44:CM:243:ARG:HB2	1.80	0.45
44:CM:141:VAL:HG11	44:CM:172:TYR:CD1	2.51	0.45
44:CM:240:ALA:HB1	44:CM:356:ASN:ND2	2.31	0.45
45:CN:150:LEU:O	45:CN:150:LEU:HD23	2.16	0.45
45:CN:420:SER:O	45:CN:423:GLN:HG3	2.16	0.45
45:DB:172:SER:OG	45:DB:175:VAL:HG22	2.17	0.45
44:DC:29:GLY:O	44:DC:37:PRO:HG3	2.16	0.45
45:DD:180:VAL:O	45:DD:180:VAL:HG22	2.15	0.45
45:DD:243:PRO:HA	44:DE:73:THR:CG2	2.47	0.45
45:DD:345:ILE:HG23	45:DD:345:ILE:O	2.16	0.45
44:DE:135:PHE:O	44:DE:166:LYS:HA	2.16	0.45
45:DF:42:LEU:HA	45:DF:45:GLU:OE2	2.16	0.45
45:DF:319:GLY:HA2	45:DF:357:PRO:HD3	1.99	0.45
45:DJ:2:ARG:NH1	45:DJ:240:LEU:O	2.26	0.45
45:DJ:24:ILE:HG23	45:DJ:27:GLU:OE2	2.16	0.45
45:DJ:40:SER:OG	45:DJ:43:GLN:HG3	2.16	0.45
45:DJ:189:VAL:HG13	45:DJ:190:HIS:N	2.32	0.45
44:DK:188:ILE:CD1	44:DK:395:PHE:HB2	2.44	0.45
44:EA:372:MET:O	44:EA:373:ARG:HG3	2.17	0.45
45:ED:257:LEU:HB3	45:ED:266:PHE:CZ	2.52	0.45
44:EE:36:MET:CB	44:EE:37:PRO:HD3	2.46	0.45
44:EE:76:ASP:O	44:EE:79:ARG:HB2	2.17	0.45
44:EE:135:PHE:O	44:EE:136:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EE:159:VAL:HG13	44:EE:160:ASP:N	2.31	0.45
44:EE:437:ILE:O	45:EF:391:ARG:NH2	2.50	0.45
44:EG:235:ILE:HD12	44:EG:235:ILE:H	1.81	0.45
44:EG:296:PHE:CD2	44:EG:335:ILE:HD12	2.51	0.45
45:EH:97:ALA:CA	45:EH:103:LYS:HD2	2.43	0.45
45:EH:282:ARG:NH2	45:EH:288:GLU:HB3	2.30	0.45
44:EI:186:ASN:OD1	44:EI:187:SER:N	2.49	0.45
44:EI:190:SER:O	44:EI:193:SER:N	2.48	0.45
45:EJ:365:VAL:HG12	45:EJ:366:THR:N	2.30	0.45
44:EK:117:LEU:O	44:EK:120:ASP:HB2	2.15	0.45
44:EK:305:CYS:O	44:EK:307:PRO:HD3	2.15	0.45
45:EL:183:TYR:OH	45:EL:388:MET:HG2	2.16	0.45
45:EL:286:VAL:O	45:EL:289:LEU:HB2	2.17	0.45
44:EM:225:THR:HA	44:EM:228:ASN:HB2	1.99	0.45
44:EM:301:MET:HG3	44:EM:307:PRO:CD	2.45	0.45
45:EN:258:ILE:HG12	45:EN:264:HIS:HB3	1.97	0.45
45:EN:296:ALA:HA	45:EN:305:PRO:CG	2.46	0.45
44:FC:1:MET:HE1	45:FF:94:GLN:HG2	1.97	0.45
44:FC:186:ASN:OD1	44:FC:187:SER:N	2.49	0.45
45:FD:69:GLU:OE2	45:FD:72:THR:HG22	2.17	0.45
44:FE:200:VAL:HG23	44:FE:256:GLN:HB3	1.98	0.45
45:FF:49:VAL:HG11	45:FF:241:ARG:HG2	1.99	0.45
45:FF:172:SER:HB2	45:FF:173:PRO:CD	2.47	0.45
45:FH:282:ARG:NH1	45:FH:284:LEU:HD21	2.28	0.45
44:FI:182:VAL:C	44:FI:184:PRO:HD2	2.36	0.45
44:FI:266:HIS:C	44:FI:267:PHE:HD1	2.20	0.45
44:FI:332:ILE:HD12	44:FI:332:ILE:H	1.81	0.45
44:FI:413:MET:HE2	44:FI:413:MET:HB2	1.56	0.45
45:FJ:390:ARG:HD2	45:FJ:390:ARG:O	2.17	0.45
44:FK:66:VAL:HG12	44:FK:121:ARG:CG	2.46	0.45
44:FK:221:ARG:NH1	45:FL:322:SER:OG	2.50	0.45
44:FK:433:GLU:O	44:FK:437:ILE:HG23	2.16	0.45
44:FM:9:VAL:HG12	44:FM:139:ASN:HB3	1.98	0.45
44:FM:422:ARG:NH1	44:FM:426:ALA:HB2	2.31	0.45
45:FN:149:THR:HA	45:FN:152:ILE:HB	1.98	0.45
44:GA:49:PHE:CB	44:GA:53:PHE:HB2	2.27	0.45
44:GA:208:ALA:HB2	44:GA:304:LYS:N	2.31	0.45
45:GB:332:ASN:O	45:GB:336:LYS:HG2	2.16	0.45
45:GB:380:ARG:O	45:GB:383:GLU:N	2.49	0.45
44:GC:328:VAL:HG11	44:GC:353:VAL:CG2	2.47	0.45
45:GD:58:ARG:CZ	45:HD:281:TYR:HE1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:80:PRO:O	45:GD:81:PHE:HB2	2.17	0.45
45:GD:256:ASN:O	45:GD:257:LEU:HD12	2.16	0.45
45:GD:374:ILE:HD11	45:GD:422:TYR:CE2	2.51	0.45
44:GG:11:GLN:HE22	45:GH:247:ASN:H	1.65	0.45
44:GG:320:ARG:HG3	44:GG:374:ALA:HB3	1.97	0.45
44:GG:384:ILE:HG13	44:GG:387:VAL:HG22	1.99	0.45
45:GH:323:THR:O	45:GH:324:LYS:C	2.54	0.45
45:GH:404:ASP:HB2	45:GH:406:MET:HE1	1.99	0.45
45:GJ:68:LEU:HG	45:GJ:68:LEU:O	2.16	0.45
44:GK:31:GLN:CD	44:GK:37:PRO:HD3	2.37	0.45
44:GK:288:VAL:HG13	44:GK:289:ALA:N	2.31	0.45
45:GL:229:VAL:HG12	45:GL:233:MET:HG3	1.97	0.45
44:GM:132:LEU:H	44:GM:132:LEU:CD1	2.28	0.45
44:GM:135:PHE:HD2	44:GM:166:LYS:CD	2.28	0.45
44:HA:257:THR:HG22	45:HD:397:TRP:CE3	2.52	0.45
45:HB:68:LEU:HG	45:HB:96:GLY:HA2	1.99	0.45
45:HB:270:PHE:CE1	45:HB:358:PRO:HG2	2.52	0.45
45:HB:286:VAL:O	45:HB:289:LEU:HB2	2.16	0.45
45:HB:362:LYS:HE2	45:HB:363:MET:HE2	1.97	0.45
44:HC:423:GLU:O	44:HC:427:ALA:N	2.36	0.45
45:HF:263:LEU:HG	45:HF:422:TYR:CE1	2.51	0.45
45:HF:303:ALA:HB1	45:HF:373:ALA:O	2.16	0.45
44:HG:185:TYR:CE1	44:HG:398:MET:HE3	2.51	0.45
44:HG:288:VAL:O	44:HG:291:ILE:HG12	2.17	0.45
45:HH:192:LEU:HD12	45:HH:196:ALA:HB2	1.97	0.45
45:HH:248:SER:CB	45:HH:252:LYS:HD2	2.47	0.45
44:HI:346:TRP:O	45:HL:388:MET:HG2	2.17	0.45
44:HK:210:TYR:HE1	44:HK:227:LEU:HD11	1.77	0.45
44:HK:223:THR:HB	45:HL:322:SER:CA	2.43	0.45
45:HN:161:ASP:OD1	45:HN:162:ARG:N	2.48	0.45
45:HN:178:THR:HB	45:HN:181:GLU:CD	2.37	0.45
45:HN:200:MET:SD	45:HN:268:ILE:HG21	2.57	0.45
45:IB:178:THR:HG22	45:IB:180:VAL:H	1.80	0.45
45:IB:186:THR:HG23	45:IB:415:MET:SD	2.57	0.45
45:IB:292:GLN:HG2	45:IB:298:ASN:OD1	2.17	0.45
44:IC:139:ASN:OD1	44:IC:139:ASN:O	2.34	0.45
44:IC:172:TYR:HB3	44:IC:173:PRO:HD2	1.98	0.45
44:IE:121:ARG:NH1	44:IE:124:LYS:HD2	2.32	0.45
45:IF:1:MET:C	45:IF:2:ARG:HG2	2.35	0.45
45:IF:113:ILE:HA	45:IF:116:VAL:CG1	2.40	0.45
45:IF:173:PRO:HB3	45:IF:384:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IF:248:SER:CB	45:IF:252:LYS:HD2	2.46	0.45
45:IH:5:VAL:HG12	45:IH:62:ARG:HD2	1.96	0.45
45:IH:86:ARG:HH11	44:JE:283:HIS:HB2	1.76	0.45
45:IH:397:TRP:O	45:IH:400:GLY:N	2.46	0.45
44:II:31:GLN:CD	44:II:32:PRO:HD2	2.36	0.45
44:II:256:GLN:O	45:IL:397:TRP:CZ2	2.69	0.45
45:IJ:23:VAL:HG21	45:IJ:230:SER:CB	2.47	0.45
45:IJ:54:ALA:HB1	44:JG:284:GLU:O	2.16	0.45
45:IJ:231:ALA:O	45:IJ:234:SER:OG	2.32	0.45
44:IK:24:PHE:HZ	44:IK:235:ILE:CG2	2.30	0.45
44:IK:88:HIS:HB3	44:IK:91:GLN:CD	2.36	0.45
44:IK:121:ARG:HA	44:IK:124:LYS:NZ	2.32	0.45
44:IK:188:ILE:HD12	44:IK:425:LEU:HD12	1.98	0.45
44:IK:265:ILE:HG22	44:IK:380:ASN:HD21	1.81	0.45
44:IK:311:LYS:CE	44:IK:342:GLN:HG3	2.47	0.45
44:JA:138:PHE:CE1	44:JA:169:PHE:HB2	2.51	0.45
45:JB:288:GLU:HA	45:JB:291:GLN:HB3	1.98	0.45
45:JB:309:ARG:HD2	45:JB:342:VAL:N	2.31	0.45
45:JD:87:PRO:HD2	45:KD:281:TYR:CD1	2.52	0.45
45:JD:170:VAL:HB	45:JD:171:PRO:HD2	1.97	0.45
45:JD:330:MET:HA	45:JD:333:VAL:HG22	1.98	0.45
45:JF:66:MET:HG3	45:JF:91:VAL:HG23	1.99	0.45
45:JF:158:GLU:HG3	45:JF:159:TYR:HD1	1.77	0.45
44:JG:172:TYR:CE1	44:JG:203:MET:HE1	2.51	0.45
44:JG:259:LEU:HB3	44:JG:268:MET:SD	2.57	0.45
45:JH:209:ASP:OD1	45:JH:213:ARG:NH2	2.49	0.45
45:JH:289:LEU:HD22	45:JH:363:MET:HE2	1.98	0.45
44:JI:13:GLY:CA	44:JI:16:VAL:HG12	2.46	0.45
44:JI:169:PHE:HE1	44:JI:202:VAL:CG2	2.29	0.45
44:JI:256:GLN:NE2	44:JI:257:THR:HG23	2.31	0.45
45:JJ:267:MET:HG2	45:JJ:369:GLY:O	2.17	0.45
44:JK:209:ILE:HG22	44:JK:227:LEU:HG	1.97	0.45
44:JK:276:ILE:O	44:JK:368:LEU:HD13	2.16	0.45
45:JL:170:VAL:HG22	45:JL:171:PRO:CD	2.45	0.45
44:JM:275:ILE:HA	44:JM:368:LEU:CD1	2.45	0.45
44:JM:344:VAL:HG22	44:JM:345:ASP:H	1.81	0.45
45:JN:284:LEU:HB2	45:JN:362:LYS:HZ3	1.79	0.45
44:KA:210:TYR:CD2	45:KB:324:LYS:HG3	2.52	0.45
44:KA:233:GLN:HG3	44:KA:272:TYR:OH	2.17	0.45
45:KB:178:THR:CG2	45:KB:180:VAL:HG12	2.47	0.45
45:KB:287:PRO:HA	45:KB:290:THR:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:200:VAL:HG13	44:KC:268:MET:CE	2.47	0.45
44:KC:329:ASN:ND2	45:KF:208:TYR:HE2	2.14	0.45
44:KC:390:ARG:NH1	44:KC:390:ARG:HB2	2.31	0.45
44:KE:156:ARG:O	44:KE:159:VAL:HG12	2.16	0.45
45:KF:20:PHE:CE1	45:KF:233:MET:HB2	2.52	0.45
45:KH:101:TRP:CZ3	45:KH:187:LEU:HD23	2.51	0.45
44:KI:71:GLU:OE2	44:KI:73:THR:HG23	2.16	0.45
45:KJ:173:PRO:HD2	45:KJ:174:LYS:HZ3	1.81	0.45
44:KK:138:PHE:HE2	44:KK:235:ILE:HD11	1.81	0.45
44:KK:209:ILE:CG2	44:KK:227:LEU:HD22	2.46	0.45
44:KK:404:PHE:CD1	45:KL:259:PRO:HA	2.50	0.45
44:KM:18:ASN:O	44:KM:22:GLU:OE1	2.34	0.45
45:KN:117:LEU:CD2	45:KN:121:ARG:HD3	2.47	0.45
44:LA:270:SER:O	44:LA:302:MET:HB3	2.15	0.45
45:LB:107:THR:HG23	45:LB:108:GLU:N	2.31	0.45
45:LB:177:ASP:HB2	48:LB:502:GDP:O3'	2.17	0.45
44:LC:119:LEU:O	44:LC:123:ARG:HG2	2.17	0.45
44:LC:223:THR:HG23	44:LC:225:THR:H	1.82	0.45
44:LC:268:MET:HE2	44:LC:378:ILE:HG22	1.92	0.45
44:LG:120:ASP:O	44:LG:123:ARG:HB2	2.17	0.45
44:LG:291:ILE:HG13	44:LG:292:THR:N	2.31	0.45
44:LG:292:THR:O	44:LG:295:ALA:HB3	2.17	0.45
45:LJ:256:ASN:HD22	45:LJ:350:LYS:NZ	2.14	0.45
45:LJ:263:LEU:HG	45:LJ:422:TYR:CE1	2.52	0.45
45:LL:130:LEU:HD12	45:LL:131:GLN:N	2.32	0.45
45:LL:285:THR:CB	45:LL:287:PRO:HD2	2.46	0.45
44:LM:278:ALA:HA	44:LM:281:ALA:CB	2.47	0.45
45:LN:113:ILE:HD12	45:LN:150:LEU:HD22	1.98	0.45
45:LN:170:VAL:HG13	45:LN:203:ASP:OD1	2.16	0.45
44:MA:97:GLU:OE2	45:MB:251:ARG:NH2	2.44	0.45
44:MA:209:ILE:CG2	44:MA:227:LEU:HD22	2.44	0.45
45:MB:137:HIS:NE2	45:MB:166:THR:HB	2.31	0.45
44:MC:3:GLU:OE1	44:MC:3:GLU:N	2.50	0.45
44:MC:112:LYS:HZ1	44:MC:152:LEU:HD22	1.81	0.45
44:MC:188:ILE:HG23	44:MC:189:LEU:N	2.32	0.45
45:MF:22:GLU:HG2	45:MF:81:PHE:CD1	2.51	0.45
45:MF:221:THR:HG23	45:MF:224:ASP:H	1.82	0.45
44:MG:401:LYS:O	45:MH:260:PHE:HZ	1.99	0.45
45:MH:7:ILE:HB	45:MH:135:ILE:HD13	1.96	0.45
45:MJ:61:PRO:HD2	45:MJ:84:LEU:O	2.15	0.45
45:ML:7:ILE:HG22	45:ML:64:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:132:GLY:HA3	45:ML:163:ILE:CG2	2.46	0.45
45:ML:216:LYS:CD	45:ML:275:SER:HB2	2.46	0.45
44:MM:4:VAL:O	44:MM:4:VAL:HG13	2.16	0.45
45:MN:60:VAL:HG13	45:MN:60:VAL:O	2.15	0.45
45:MN:310:TYR:HB2	45:MN:341:PHE:CD1	2.51	0.45
44:NA:210:TYR:HB3	45:NB:324:LYS:HZ1	1.81	0.45
45:NB:42:LEU:HD23	45:NB:45:GLU:OE2	2.16	0.45
45:NB:211:CYS:O	45:NB:215:LEU:HB2	2.16	0.45
44:NC:154:LEU:CD1	44:NC:194:LEU:HB3	2.46	0.45
44:NC:254:GLU:OE2	45:NF:99:ASN:HB2	2.16	0.45
45:ND:50:TYR:O	45:ND:61:PRO:HA	2.16	0.45
44:NE:66:VAL:HG22	44:NE:68:LEU:HD11	1.97	0.45
45:NF:20:PHE:CD1	45:NF:233:MET:HE2	2.52	0.45
45:NF:285:THR:CB	45:NF:287:PRO:HD2	2.46	0.45
45:NH:44:LEU:HD22	45:NH:47:ILE:HG21	1.98	0.45
45:NH:203:ASP:CG	45:NH:302:ALA:H	2.14	0.45
44:NI:56:THR:HG23	44:NI:58:ALA:H	1.81	0.45
45:NJ:192:LEU:CD2	45:NJ:196:ALA:HB3	2.45	0.45
45:NJ:258:ILE:CD1	45:NJ:266:PHE:HZ	2.29	0.45
44:NK:145:THR:HG23	44:NK:146:GLY:N	2.31	0.45
44:NK:223:THR:HA	45:NL:322:SER:OG	2.16	0.45
45:NL:218:THR:HG23	45:NL:219:THR:HG23	1.98	0.45
45:NL:360:GLY:O	45:NL:361:LEU:HD12	2.17	0.45
44:NM:11:GLN:O	44:NM:14:ILE:HB	2.15	0.45
44:NM:203:MET:HB3	44:NM:269:LEU:HB3	1.97	0.45
45:NN:296:ALA:O	45:NN:297:LYS:HG2	2.17	0.45
44:OA:32:PRO:HB3	44:OA:83:TYR:CE1	2.52	0.45
44:OA:273:ALA:CB	44:OA:274:PRO:HA	2.43	0.45
45:OD:20:PHE:CE1	45:OD:233:MET:HB3	2.51	0.45
45:OD:130:LEU:CD2	45:OD:162:ARG:HB3	2.46	0.45
45:OD:249:ASP:OD1	45:OD:252:LYS:HG3	2.16	0.45
44:OE:209:ILE:HD13	44:OE:302:MET:SD	2.56	0.45
45:OF:5:VAL:O	45:OF:134:GLN:HG2	2.16	0.45
45:OF:313:ALA:HB3	45:OF:349:ILE:HD12	1.98	0.45
44:OG:51:THR:HG23	44:OG:52:PHE:HD2	1.81	0.45
44:OG:154:LEU:HA	44:OG:157:LEU:HD12	1.98	0.45
44:OG:229:ARG:HD3	44:OG:363:VAL:HG21	1.99	0.45
44:OG:430:LYS:O	44:OG:433:GLU:HG2	2.16	0.45
45:OH:124:ALA:HB1	45:OH:130:LEU:HD21	1.97	0.45
45:OH:210:ILE:O	45:OH:214:THR:HG22	2.17	0.45
44:OI:210:TYR:HD1	45:OJ:324:LYS:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:265:ILE:HG23	44:OI:432:TYR:HE1	1.80	0.45
44:OI:292:THR:HG23	44:OI:293:ASN:N	2.32	0.45
45:OJ:8:GLN:HB2	45:OJ:13:GLY:CA	2.46	0.45
45:OJ:162:ARG:HH21	45:OJ:251:ARG:NH2	2.15	0.45
45:OJ:163:ILE:HA	45:OJ:197:ASP:OD2	2.15	0.45
45:OJ:169:VAL:HA	45:OJ:202:ILE:O	2.17	0.45
45:OJ:263:LEU:HD23	45:OJ:422:TYR:CE1	2.51	0.45
45:OL:257:LEU:HD12	45:OL:257:LEU:O	2.17	0.45
45:OL:326:VAL:HG11	45:OL:351:SER:OG	2.16	0.45
45:OL:383:GLU:O	45:OL:386:THR:HG22	2.16	0.45
44:OM:11:GLN:NE2	45:ON:245:GLN:O	2.49	0.45
44:OM:72:PRO:HA	44:OM:75:ILE:CG2	2.46	0.45
44:OM:236:SER:O	44:OM:243:ARG:NH2	2.49	0.45
45:ON:16:ILE:HD12	45:ON:16:ILE:H	1.82	0.45
45:ON:30:ILE:HA	45:ON:35:THR:O	2.17	0.45
45:ON:113:ILE:O	45:ON:116:VAL:HG12	2.17	0.45
45:ON:116:VAL:HG13	45:ON:117:LEU:N	2.32	0.45
45:ON:210:ILE:HD13	45:ON:228:LEU:HD11	1.97	0.45
44:PA:265:ILE:HG23	44:PA:432:TYR:HE1	1.81	0.45
45:PB:31:ASP:HB3	45:PB:32:PRO:HD3	1.98	0.45
44:PC:251:ASP:CB	44:PC:254:GLU:HG3	2.30	0.45
45:PD:253:LEU:HA	45:PD:257:LEU:HD13	1.99	0.45
44:PE:175:PRO:HG2	44:PE:207:GLU:OE1	2.16	0.45
44:PE:320:ARG:NH2	44:PE:360:PRO:HA	2.32	0.45
45:PF:180:VAL:HG21	45:PF:398:TYR:HH	1.80	0.45
45:PF:306:ARG:HA	45:PF:340:TYR:CE1	2.49	0.45
45:PH:290:THR:HG23	45:PH:291:GLN:N	2.32	0.45
44:PI:19:ALA:HA	44:PI:22:GLU:OE1	2.17	0.45
44:PI:306:ASP:OD1	44:PI:307:PRO:HD2	2.17	0.45
45:PJ:1:MET:C	45:PJ:2:ARG:HG2	2.35	0.45
45:PJ:217:LEU:CD1	45:PJ:220:PRO:HG3	2.45	0.45
45:PN:1:MET:C	45:PN:2:ARG:HG2	2.37	0.45
45:PN:398:TYR:O	45:PN:403:MET:HB3	2.15	0.45
44:QA:67:PHE:C	44:QA:68:LEU:HD12	2.37	0.45
45:QB:16:ILE:CD1	45:QB:229:VAL:HG11	2.37	0.45
45:QB:20:PHE:O	45:QB:24:ILE:HG12	2.15	0.45
45:QB:60:VAL:O	45:QB:60:VAL:HG13	2.16	0.45
45:QB:182:PRO:HG2	45:QB:388:MET:CE	2.47	0.45
45:QB:375:GLN:O	45:QB:379:LYS:HG3	2.16	0.45
44:QC:208:ALA:O	44:QC:212:ILE:HG12	2.17	0.45
44:QC:231:ILE:HA	44:QC:234:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:256:GLN:CD	44:QC:256:GLN:H	2.19	0.45
45:QD:143:THR:HG23	45:QD:144:GLY:N	2.32	0.45
45:QD:184:ASN:O	45:QD:187:LEU:N	2.49	0.45
45:QD:199:CYS:O	45:QD:200:MET:HE1	2.17	0.45
44:QE:183:GLU:CG	44:QE:184:PRO:HD3	2.46	0.45
44:QE:317:MET:CE	44:QE:375:VAL:HG21	2.45	0.45
45:QF:105:HIS:HD2	45:QF:146:GLY:O	1.99	0.45
45:QF:274:THR:OG1	45:QF:278:SER:O	2.33	0.45
44:QG:163:LYS:O	44:QG:163:LYS:CG	2.64	0.45
44:QG:206:ASN:HA	44:QG:209:ILE:HD12	1.98	0.45
45:QH:3:GLU:HG3	45:QH:62:ARG:NH1	2.32	0.45
45:QH:167:PHE:HE2	45:QH:233:MET:HG3	1.80	0.45
45:QH:246:LEU:HA	44:QI:11:GLN:OE1	2.16	0.45
44:QI:275:ILE:HA	44:QI:368:LEU:HD11	1.97	0.45
44:QK:191:THR:CA	44:QK:194:LEU:HG	2.40	0.45
45:QL:211:CYS:SG	45:QL:215:LEU:HD21	2.57	0.45
45:QL:257:LEU:HG	45:QL:312:THR:HG23	1.99	0.45
45:QN:150:LEU:HD21	45:QN:154:LYS:CE	2.33	0.45
44:RA:192:HIS:ND1	44:RA:421:ALA:HA	2.31	0.45
45:RB:5:VAL:CG1	45:RB:62:ARG:HD2	2.47	0.45
45:RB:42:LEU:HD23	45:RB:243:PRO:HG2	1.97	0.45
45:RB:210:ILE:HD13	45:RB:228:LEU:HD13	1.99	0.45
44:RE:259:LEU:HD23	44:RE:314:ALA:HB1	1.98	0.45
45:RF:221:THR:HG22	45:RF:224:ASP:OD2	2.17	0.45
44:RG:183:GLU:CG	44:RG:184:PRO:HD3	2.47	0.45
44:RG:259:LEU:O	44:RG:268:MET:HE1	2.17	0.45
44:RG:324:VAL:HG21	44:RG:326:LYS:CE	2.32	0.45
45:RH:113:ILE:HD11	45:RH:151:LEU:HA	1.98	0.45
45:RH:257:LEU:HD23	45:RH:368:VAL:HG12	1.97	0.45
45:RH:375:GLN:HG3	45:RH:376:GLU:N	2.30	0.45
45:RJ:23:VAL:O	45:RJ:26:ASP:HB2	2.16	0.45
45:RL:237:THR:HG1	45:RL:240:LEU:HB3	1.81	0.45
44:RM:209:ILE:HG21	44:RM:227:LEU:CA	2.47	0.45
44:RM:428:LEU:HG	44:RM:432:TYR:HE2	1.80	0.45
45:RN:208:TYR:CE1	45:RN:225:LEU:HD11	2.51	0.45
44:SA:141:VAL:O	44:SA:141:VAL:HG22	2.16	0.45
44:SA:239:THR:HB	44:SA:242:LEU:HD12	1.97	0.45
44:SA:405:VAL:HG12	44:SA:409:VAL:HG23	1.99	0.45
45:SB:238:CYS:SG	45:SB:239:CYS:N	2.90	0.45
45:SB:290:THR:HA	45:SB:293:MET:CE	2.47	0.45
44:SC:195:LEU:CD1	44:SC:428:LEU:HD22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:280:LYS:HE2	44:SC:280:LYS:HB3	1.78	0.45
44:SC:401:LYS:C	44:SC:402:ARG:HG3	2.37	0.45
45:SD:4:ILE:HD11	45:SD:50:TYR:OH	2.15	0.45
45:SD:8:GLN:CG	45:SD:65:LEU:HG	2.47	0.45
45:SD:167:PHE:CE2	45:SD:233:MET:HG2	2.51	0.45
45:SD:324:LYS:HG3	44:SE:210:TYR:CD2	2.51	0.45
45:SF:11:GLN:HE21	45:SF:72:THR:HG21	1.81	0.45
45:SF:14:ASN:O	45:SF:17:GLY:N	2.49	0.45
45:SF:204:ASN:O	45:SF:207:LEU:HB2	2.16	0.45
45:SF:246:LEU:HA	44:SG:11:GLN:CD	2.36	0.45
45:SF:325:GLU:CA	45:SF:328:GLU:HG2	2.42	0.45
44:SG:51:THR:HB	44:SG:243:ARG:HD3	1.98	0.45
44:SG:193:SER:O	44:SG:197:HIS:HB2	2.16	0.45
45:SH:238:CYS:HB2	45:SH:318:ARG:NE	2.32	0.45
44:SI:190:SER:O	44:SI:194:LEU:HG	2.16	0.45
44:SI:348:PRO:HB2	45:SJ:384:GLN:OE1	2.16	0.45
45:SJ:2:ARG:O	45:SJ:2:ARG:HG2	2.17	0.45
45:SJ:28:HIS:CD2	45:SJ:47:ILE:HD13	2.51	0.45
45:SJ:131:GLN:NE2	45:SJ:250:LEU:HB2	2.30	0.45
44:SK:11:GLN:N	46:SK:501:GTP:O2B	2.49	0.45
44:SK:265:ILE:HD11	44:SK:435:VAL:HG21	1.98	0.45
44:SK:311:LYS:HG3	44:SK:342:GLN:HG3	1.97	0.45
45:SL:65:LEU:HB2	45:SL:90:PHE:CD1	2.51	0.45
45:SL:325:GLU:OE1	45:SL:329:GLN:N	2.30	0.45
44:SM:66:VAL:HG22	44:SM:68:LEU:CD1	2.47	0.45
44:SM:315:CYS:HA	44:SM:379:SER:OG	2.16	0.45
45:SN:306:ARG:HB2	45:SN:340:TYR:CE1	2.52	0.45
45:TB:267:MET:SD	45:TB:371:SER:HB3	2.57	0.45
44:TC:141:VAL:HG22	44:TC:187:SER:HA	1.99	0.45
44:TC:217:LEU:HB3	44:TC:219:ILE:HG13	1.99	0.45
45:TD:4:ILE:HD11	45:TD:50:TYR:OH	2.16	0.45
45:TD:60:VAL:HG12	45:UD:281:TYR:HE2	1.81	0.45
45:TD:130:LEU:HD23	45:TD:159:TYR:CD2	2.51	0.45
44:TE:51:THR:O	44:TE:51:THR:HG22	2.16	0.45
44:TE:311:LYS:HA	44:TE:342:GLN:NE2	2.30	0.45
44:TE:405:VAL:HG11	44:TE:415:GLU:OE2	2.16	0.45
45:TF:42:LEU:HA	45:TF:45:GLU:CG	2.46	0.45
45:TF:164:MET:CB	45:TF:197:ASP:HB2	2.32	0.45
44:TG:102:ASN:CG	44:TG:105:ARG:HG3	2.36	0.45
44:TG:402:ARG:HA	44:TG:405:VAL:HG21	1.99	0.45
44:TI:190:SER:O	44:TI:193:SER:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:372:MET:HA	44:TI:372:MET:HE3	1.98	0.45
45:TJ:88:ASP:HB2	45:UJ:281:TYR:CZ	2.52	0.45
44:TK:25:CYS:SG	44:TK:86:LEU:HD21	2.55	0.45
44:TK:340:THR:HG23	44:TK:341:ILE:HG13	1.97	0.45
44:TM:21:TRP:CZ2	44:TM:65:ALA:HB2	2.52	0.45
44:TM:349:THR:CG2	45:TN:179:VAL:HA	2.46	0.45
45:TN:133:PHE:O	45:TN:164:MET:HA	2.16	0.45
44:UA:171:ILE:HG21	46:UA:501:GTP:HN22	1.80	0.45
44:UA:294:SER:HA	44:UA:297:GLU:OE2	2.16	0.45
44:UA:313:MET:HE3	44:UA:313:MET:HA	1.99	0.45
45:UB:3:GLU:CD	45:UB:3:GLU:H	2.20	0.45
45:UB:67:ASP:OD1	45:UB:68:LEU:N	2.49	0.45
45:UB:286:VAL:N	45:UB:287:PRO:CD	2.79	0.45
44:UC:111:GLY:O	44:UC:115:VAL:HB	2.16	0.45
44:UC:172:TYR:HB3	44:UC:173:PRO:HD2	1.98	0.45
44:UC:188:ILE:HG13	44:UC:395:PHE:CD2	2.50	0.45
45:UD:6:HIS:HD2	45:UD:134:GLN:HG3	1.80	0.45
45:UD:286:VAL:HB	45:UD:287:PRO:HD3	1.98	0.45
45:UF:345:ILE:O	45:UF:345:ILE:HG23	2.17	0.45
45:UH:284:LEU:HB3	45:UH:363:MET:HE2	1.96	0.45
44:UI:108:TYR:HB2	44:UI:411:GLU:O	2.17	0.45
44:UI:133:GLN:CB	44:UI:252:ILE:HD12	2.46	0.45
44:UI:236:SER:C	44:UI:320:ARG:HH12	2.19	0.45
45:UL:24:ILE:HA	45:UL:27:GLU:HB3	1.98	0.45
44:UM:69:ASP:OD2	44:UM:74:VAL:HG21	2.16	0.45
44:UM:208:ALA:HB3	44:UM:302:MET:O	2.16	0.45
44:UM:291:ILE:HD12	44:UM:375:VAL:HG11	1.95	0.45
44:UM:314:ALA:HA	44:UM:350:GLY:HA3	1.98	0.45
45:UN:84:LEU:HD12	45:UN:84:LEU:H	1.82	0.45
44:VA:171:ILE:HG23	44:VA:204:LEU:O	2.16	0.45
44:VA:183:GLU:HG2	44:VA:184:PRO:CD	2.46	0.45
44:VA:188:ILE:HG22	44:VA:421:ALA:CB	2.47	0.45
45:VB:420:SER:O	45:VB:423:GLN:HG3	2.17	0.45
44:VC:150:GLY:O	44:VC:154:LEU:N	2.34	0.45
44:VE:103:PHE:CG	44:VE:189:LEU:HD13	2.51	0.45
44:VE:397:LEU:HD22	45:VF:346:PRO:HD3	1.98	0.45
45:VF:183:TYR:O	45:VF:187:LEU:HG	2.16	0.45
45:VF:372:THR:HA	45:VF:422:TYR:HE1	1.80	0.45
44:VG:406:HIS:CD2	45:VH:261:PRO:HD3	2.52	0.45
45:VH:65:LEU:HD21	45:VH:85:PHE:HE2	1.80	0.45
45:VH:202:ILE:HD11	45:VH:268:ILE:CD1	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:325:PRO:HG3	45:VL:222:TYR:CD2	2.52	0.45
44:VK:12:GLY:O	44:VK:16:VAL:HG13	2.17	0.45
44:VK:71:GLU:OE2	44:VK:72:PRO:HD2	2.16	0.45
44:VK:210:TYR:CZ	45:VL:324:LYS:HA	2.51	0.45
45:VL:68:LEU:HD23	45:VL:97:ALA:CA	2.46	0.45
45:VN:2:ARG:HH12	45:VN:240:LEU:CD1	2.29	0.45
45:VN:156:ARG:NH1	45:VN:159:TYR:O	2.49	0.45
45:VN:211:CYS:HB3	45:VN:217:LEU:CD2	2.42	0.45
44:WA:222:PRO:O	45:WB:324:LYS:HB3	2.16	0.45
45:WB:106:TYR:HE2	45:WB:403:MET:SD	2.39	0.45
45:WB:208:TYR:CE1	45:WB:220:PRO:HB2	2.52	0.45
45:WB:372:THR:CG2	45:WB:426:GLN:HB2	2.41	0.45
45:WF:304:ASP:OD1	45:WF:305:PRO:HD2	2.17	0.45
44:WG:69:ASP:OD1	44:WG:70:LEU:N	2.49	0.45
44:WG:270:SER:O	44:WG:302:MET:HB2	2.17	0.45
44:WG:271:SER:HA	44:WG:302:MET:CG	2.30	0.45
44:WI:3:GLU:CG	44:WI:64:ARG:HH12	2.23	0.45
44:WI:242:LEU:HD12	44:WI:252:ILE:HG13	1.94	0.45
44:WI:388:PHE:HE2	44:WI:432:TYR:HH	1.64	0.45
44:WI:392:ASP:O	44:WI:395:PHE:HB3	2.16	0.45
45:WJ:44:LEU:HD23	45:WJ:47:ILE:HD12	1.97	0.45
45:WJ:255:VAL:HG12	45:WJ:255:VAL:O	2.17	0.45
45:WL:112:LEU:O	45:WL:112:LEU:HD23	2.16	0.45
45:WL:371:SER:O	45:WL:374:ILE:HG12	2.16	0.45
44:WM:84:ARG:HG3	44:WM:85:GLN:CD	2.37	0.45
44:WM:115:VAL:HG13	44:WM:116:ASP:N	2.31	0.45
44:WM:176:GLN:HG3	45:WN:331:LEU:HD21	1.99	0.45
45:WN:15:GLN:N	45:WN:15:GLN:OE1	2.49	0.45
45:WN:251:ARG:O	45:WN:254:ALA:N	2.49	0.45
4:0C:73:PRO:HD3	45:DH:55:THR:CB	2.33	0.45
5:1D:41:TYR:CE1	44:DG:76:ASP:HB3	2.51	0.45
5:1D:190:THR:CA	44:FE:219:ILE:HD11	2.33	0.45
18:1F:123:TYR:HD2	44:GI:18:ASN:HB3	1.80	0.45
9:1H:253:LEU:HD13	44:HE:26:LEU:HD11	1.97	0.45
19:1I:174:ILE:HD11	45:KH:78:ALA:HB1	1.98	0.45
20:1J:263:PHE:CZ	44:II:282:TYR:HD2	2.19	0.45
21:1K:216:LEU:CD1	44:GA:278:ALA:HB1	2.47	0.45
15:1V:72:GLY:HA2	45:MJ:340:TYR:CZ	2.51	0.45
27:1W:65:GLY:HA3	45:LH:224:ASP:OD1	2.16	0.45
2:2A:129:PRO:CD	45:AJ:361:LEU:HD23	2.44	0.45
32:2I:138:VAL:HG13	45:GD:337:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2O:156:ARG:HD2	44:VK:279:GLU:HG2	1.99	0.45
11:2Q:30:ARG:HH22	44:AE:397:LEU:HD13	1.81	0.45
26:2R:68:MET:HB2	45:MH:320:ARG:HH22	1.82	0.45
22:3L:45:ARG:CZ	45:BB:362:LYS:CB	2.90	0.45
15:3V:82:THR:CG2	45:LB:403:MET:HA	2.46	0.45
15:3V:98:LEU:HD11	44:LA:405:VAL:CG2	2.45	0.45
37:5D:108:ARG:HA	44:NM:281:ALA:N	2.32	0.45
38:5H:20:LEU:HD22	45:NL:46:ARG:HH21	1.82	0.45
39:5K:16:VAL:HG13	45:JL:417:ASP:OD2	2.16	0.45
11:5Q:64:ASP:HB2	11:5Q:65:PRO:CD	2.45	0.45
35:5R:65:LEU:O	45:MJ:39:ASP:HB3	2.16	0.45
36:5S:84:HIS:O	36:5S:85:ARG:CG	2.65	0.45
40:6F:19:SER:HB2	40:6F:37:GLN:CD	2.37	0.45
41:6G:91:HIS:CE1	44:UK:90:GLU:HA	2.52	0.45
41:6G:137:GLN:OE1	41:6G:138:LYS:HG2	2.17	0.45
11:6Q:68:THR:HG22	11:6Q:70:GLY:N	2.32	0.45
35:6R:573:LEU:HD23	35:6R:585:ILE:HD11	1.99	0.45
35:7R:267:LEU:HD21	45:DB:280:GLN:N	2.31	0.45
44:AA:209:ILE:HG12	44:AA:227:LEU:CD2	2.42	0.45
45:AB:20:PHE:O	45:AB:24:ILE:CD1	2.57	0.45
45:AB:388:MET:HG2	45:AB:388:MET:O	2.17	0.45
45:AD:304:ASP:OD1	45:AD:305:PRO:HD2	2.17	0.45
45:AF:72:THR:HG23	45:AF:73:MET:HG3	1.99	0.45
45:AF:132:GLY:HA3	45:AF:163:ILE:CG1	2.46	0.45
45:AF:272:PRO:HG3	45:AF:284:LEU:HD11	1.97	0.45
44:AG:32:PRO:HB3	44:AG:83:TYR:HE2	1.82	0.45
44:AG:182:VAL:C	44:AG:184:PRO:HD2	2.36	0.45
44:AG:204:LEU:CD1	44:AG:231:ILE:HG12	2.43	0.45
44:AG:224:TYR:CE2	45:AH:246:LEU:HD11	2.42	0.45
44:AM:317:MET:CE	44:AM:317:MET:HA	2.43	0.45
45:AN:36:TYR:HE1	45:AN:44:LEU:HG	1.82	0.45
45:AN:86:ARG:HD2	45:BN:281:TYR:CB	2.45	0.45
45:AN:318:ARG:HB3	45:AN:364:ALA:N	2.32	0.45
44:BA:18:ASN:O	44:BA:22:GLU:OE1	2.34	0.45
44:BA:52:PHE:O	44:BA:64:ARG:HG3	2.16	0.45
44:BA:326:LYS:HZ2	45:BD:219:THR:C	2.19	0.45
44:BC:259:LEU:HD21	44:BC:316:SER:HB3	1.99	0.45
45:BD:131:GLN:NE2	45:BD:251:ARG:HG3	2.31	0.45
45:BD:170:VAL:HG11	45:BD:377:MET:SD	2.56	0.45
44:BE:13:GLY:CA	44:BE:16:VAL:HG12	2.46	0.45
44:BE:242:LEU:HD21	44:BE:252:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BE:350:GLY:HA2	45:BH:179:VAL:HG12	1.97	0.45
44:BE:387:VAL:HA	44:BE:390:ARG:HG2	1.97	0.45
44:BG:3:GLU:O	44:BG:133:GLN:N	2.31	0.45
44:BG:256:GLN:O	45:BJ:397:TRP:NE1	2.48	0.45
45:BH:260:PHE:HB3	45:BH:261:PRO:HD2	1.99	0.45
45:BH:342:VAL:HG13	45:BH:345:ILE:CG2	2.41	0.45
44:BI:108:TYR:CD2	44:BI:413:MET:HE2	2.51	0.45
44:BI:355:ILE:HD12	44:BI:355:ILE:N	2.32	0.45
45:BJ:87:PRO:HD3	45:CH:281:TYR:CD2	2.51	0.45
45:BJ:113:ILE:O	45:BJ:116:VAL:HG12	2.16	0.45
44:BK:221:ARG:NH2	45:BL:321:MET:HB2	2.30	0.45
45:BL:163:ILE:HG21	45:BL:251:ARG:HD2	1.99	0.45
45:BL:169:VAL:HG12	45:BL:202:ILE:CB	2.40	0.45
45:BL:295:ASP:OD2	45:BL:297:LYS:HG2	2.16	0.45
45:BN:309:ARG:N	45:BN:372:THR:HG1	2.13	0.45
44:CA:254:GLU:HA	44:CA:257:THR:OG1	2.16	0.45
45:CB:179:VAL:HG23	45:CB:180:VAL:N	2.31	0.45
45:CF:184:ASN:OD1	45:CF:185:ALA:N	2.50	0.45
44:CI:23:LEU:CD1	44:CI:361:THR:HG23	2.41	0.45
44:CI:289:ALA:O	44:CI:292:THR:HG22	2.16	0.45
45:CJ:274:THR:HG23	45:CJ:274:THR:O	2.16	0.45
44:CK:88:HIS:O	44:CK:91:GLN:HG2	2.16	0.45
44:CK:173:PRO:CD	44:CK:391:LEU:HD21	2.47	0.45
45:CL:375:GLN:C	45:CL:379:LYS:HZ2	2.19	0.45
45:CN:4:ILE:HG21	45:CN:250:LEU:CD1	2.46	0.45
45:CN:199:CYS:SG	45:CN:200:MET:N	2.90	0.45
44:DA:113:GLU:C	44:DA:114:ILE:HD13	2.35	0.45
44:DA:119:LEU:HD21	44:DA:156:ARG:HD3	1.98	0.45
45:DB:53:GLU:HG3	45:DB:54:ALA:N	2.32	0.45
44:DC:115:VAL:O	44:DC:119:LEU:HD23	2.17	0.45
44:DC:175:PRO:HB3	44:DC:390:ARG:NH2	2.32	0.45
44:DC:358:GLN:CD	44:DC:359:PRO:HD2	2.36	0.45
45:DD:265:PHE:CZ	45:DD:418:LEU:HD21	2.51	0.45
44:DE:103:PHE:CZ	44:DE:189:LEU:HB3	2.51	0.45
44:DE:349:THR:O	45:DF:179:VAL:HB	2.17	0.45
45:DF:46:ARG:HH22	44:DG:76:ASP:CG	2.15	0.45
45:DF:246:LEU:HD21	46:DG:501:GTP:H5''	1.99	0.45
45:DH:178:THR:CG2	45:DH:180:VAL:HG12	2.46	0.45
45:DJ:100:ASN:CB	45:DJ:103:LYS:HE2	2.46	0.45
44:DK:88:HIS:CG	44:DK:89:PRO:HD2	2.51	0.45
44:DK:182:VAL:C	44:DK:184:PRO:HD2	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:109:GLY:O	45:DL:113:ILE:HG22	2.17	0.45
45:DL:145:SER:O	45:DL:149:THR:HB	2.16	0.45
45:DL:178:THR:HG22	45:DL:180:VAL:N	2.29	0.45
45:DL:178:THR:N	45:DL:181:GLU:OE2	2.39	0.45
45:DL:217:LEU:HD11	45:DL:220:PRO:HG3	1.98	0.45
45:DL:379:LYS:HB3	45:DL:419:VAL:HG21	1.97	0.45
44:DM:53:PHE:HD1	44:DM:62:VAL:O	2.00	0.45
44:DM:90:GLU:HG3	44:DM:121:ARG:NH2	2.22	0.45
44:EA:172:TYR:HD2	44:EA:203:MET:SD	2.39	0.45
45:EB:36:TYR:CG	45:EB:44:LEU:HD11	2.52	0.45
45:EB:316:LEU:HA	45:EB:352:SER:HG	1.81	0.45
45:EB:381:VAL:HA	45:EB:384:GLN:HG2	1.98	0.45
44:EC:175:PRO:HA	44:EC:390:ARG:HH22	1.80	0.45
44:EC:212:ILE:CD1	44:EC:300:ASN:HA	2.30	0.45
45:ED:178:THR:HG22	45:ED:180:VAL:N	2.31	0.45
45:ED:378:PHE:HA	45:ED:381:VAL:CG1	2.44	0.45
44:EE:214:ARG:HH11	44:EE:214:ARG:HG2	1.82	0.45
45:EF:54:ALA:CB	45:FF:283:ALA:HB2	2.47	0.45
45:EF:112:LEU:O	45:EF:112:LEU:HD23	2.17	0.45
44:EG:55:GLU:HG3	44:EG:57:GLY:H	1.81	0.45
44:EG:62:VAL:HB	44:FE:283:HIS:O	2.17	0.45
44:EG:91:GLN:CG	44:EG:121:ARG:HH22	2.30	0.45
45:EH:141:GLY:HA3	48:EH:501:GDP:O1B	2.15	0.45
44:EI:137:VAL:HG13	44:EI:137:VAL:O	2.16	0.45
44:EI:250:VAL:HG21	44:EI:318:MET:SD	2.56	0.45
44:EI:311:LYS:O	44:EI:381:SER:HB2	2.17	0.45
45:EJ:272:PRO:HD3	45:EJ:364:ALA:HA	1.99	0.45
44:EK:88:HIS:HB3	44:EK:91:GLN:CD	2.37	0.45
44:EK:208:ALA:HB1	44:EK:301:MET:O	2.16	0.45
44:EK:319:TYR:HE2	44:EK:328:VAL:HG13	1.81	0.45
45:EL:107:THR:HG23	45:EL:108:GLU:HG2	1.99	0.45
45:EL:130:LEU:HD21	45:EL:133:PHE:CE1	2.52	0.45
45:EL:237:THR:HG23	45:EL:241:ARG:NE	2.26	0.45
45:EL:391:ARG:HD2	45:EL:391:ARG:HA	1.71	0.45
44:EM:288:VAL:HG13	44:EM:289:ALA:N	2.32	0.45
44:EM:319:TYR:HD2	44:EM:328:VAL:CG2	2.30	0.45
45:EN:209:ASP:OD1	45:EN:213:ARG:HD3	2.16	0.45
45:EN:220:PRO:HA	45:EN:224:ASP:OD2	2.17	0.45
45:EN:289:LEU:HD13	45:EN:365:VAL:CG2	2.46	0.45
45:EN:311:LEU:CD2	45:EN:342:VAL:HB	2.46	0.45
44:FA:269:LEU:HB2	44:FA:303:ALA:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:405:VAL:HG11	44:FA:415:GLU:OE1	2.17	0.45
45:FD:293:MET:HE3	45:FD:367:PHE:CB	2.36	0.45
45:FD:379:LYS:O	45:FD:382:ALA:HB3	2.17	0.45
45:FF:61:PRO:CG	45:FF:84:LEU:HB3	2.47	0.45
44:FG:183:GLU:N	44:FG:184:PRO:CD	2.79	0.45
44:FG:183:GLU:CG	44:FG:184:PRO:HD3	2.45	0.45
45:FH:8:GLN:HE21	45:FH:14:ASN:HA	1.81	0.45
44:FK:67:PHE:HB2	44:FK:92:LEU:HG	1.98	0.45
45:FL:184:ASN:OD1	45:FL:185:ALA:N	2.49	0.45
45:FL:267:MET:HG3	45:FL:299:MET:HE2	1.98	0.45
45:FN:262:ARG:NH1	45:FN:421:GLU:OE1	2.49	0.45
45:FN:293:MET:HE3	45:FN:366:THR:O	2.17	0.45
45:FN:296:ALA:CB	45:FN:306:ARG:HE	2.30	0.45
45:FN:329:GLN:H	45:FN:329:GLN:CD	2.18	0.45
45:GB:170:VAL:HG23	45:GB:377:MET:HE2	1.97	0.45
45:GB:200:MET:HE3	45:GB:266:PHE:HD2	1.80	0.45
44:GC:13:GLY:CA	44:GC:16:VAL:HG12	2.45	0.45
44:GC:332:ILE:HG23	44:GC:333:ALA:N	2.31	0.45
45:GD:102:ALA:HA	45:GD:403:MET:HE1	1.96	0.45
45:GF:344:TRP:CE3	45:GF:345:ILE:HB	2.52	0.45
44:GG:141:VAL:HG22	44:GG:187:SER:HA	1.98	0.45
44:GG:156:ARG:O	44:GG:159:VAL:HG12	2.16	0.45
45:GH:323:THR:CG2	45:GH:353:ILE:HG13	2.45	0.45
44:GI:21:TRP:CD1	44:GI:87:PHE:HZ	2.35	0.45
45:GJ:81:PHE:O	45:GJ:84:LEU:HD13	2.17	0.45
45:GJ:262:ARG:C	45:GJ:263:LEU:HD12	2.37	0.45
45:GL:110:ALA:C	45:GL:113:ILE:HG22	2.37	0.45
44:GM:302:MET:SD	44:GM:302:MET:O	2.74	0.45
44:GM:387:VAL:O	44:GM:391:LEU:HD13	2.16	0.45
44:HA:101:ASN:HA	44:HA:144:GLY:N	2.32	0.45
45:HB:137:HIS:CE1	45:HB:168:SER:HG	2.32	0.45
45:HB:296:ALA:HA	45:HB:305:PRO:CG	2.46	0.45
44:HC:98:ASP:OD1	44:HC:99:ALA:N	2.50	0.45
44:HC:257:THR:HA	45:HF:397:TRP:HZ3	1.76	0.45
45:HD:3:GLU:OE1	45:HD:4:ILE:N	2.50	0.45
45:HD:105:HIS:ND1	45:HD:150:LEU:HD12	2.30	0.45
45:HD:231:ALA:HB1	45:HD:270:PHE:CD1	2.51	0.45
45:HF:238:CYS:HB2	45:HF:318:ARG:HE	1.80	0.45
45:HF:254:ALA:HA	45:HF:258:ILE:CD1	2.47	0.45
44:HG:213:CYS:O	44:HG:217:LEU:HB2	2.17	0.45
45:HH:66:MET:HE1	45:HH:147:MET:SD	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:15:GLN:HB3	44:HI:228:ASN:HD21	1.82	0.45
45:HJ:2:ARG:NH2	45:HJ:240:LEU:HD12	2.31	0.45
44:HK:171:ILE:HA	44:HK:204:LEU:HB2	1.98	0.45
44:HM:142:GLY:HA3	44:HM:183:GLU:OE2	2.17	0.45
44:HM:256:GLN:NE2	44:HM:257:THR:HG23	2.31	0.45
45:IB:113:ILE:CD1	45:IB:150:LEU:HD22	2.47	0.45
45:IB:222:TYR:HD1	45:IB:225:LEU:HD12	1.81	0.45
44:IC:362:VAL:HG13	44:IC:362:VAL:O	2.17	0.45
45:ID:221:THR:CG2	45:ID:224:ASP:H	2.28	0.45
44:IE:301:MET:HE2	44:IE:301:MET:N	2.31	0.45
45:IF:68:LEU:HD23	45:IF:97:ALA:CA	2.46	0.45
45:IF:68:LEU:CD1	45:IF:108:GLU:HG3	2.38	0.45
44:IG:195:LEU:HA	44:IG:266:HIS:NE2	2.31	0.45
44:IG:206:ASN:OD1	44:IG:207:GLU:N	2.50	0.45
44:IG:323:VAL:HG22	44:IG:328:VAL:HG23	1.99	0.45
45:IH:375:GLN:O	45:IH:379:LYS:HG3	2.17	0.45
44:II:305:CYS:SG	44:II:387:VAL:HG13	2.56	0.45
45:IJ:2:ARG:CG	45:IJ:240:LEU:HD21	2.43	0.45
45:IJ:248:SER:HB3	45:IJ:252:LYS:HD2	1.99	0.45
44:IK:262:TYR:OH	45:IN:393:ALA:HB2	2.16	0.45
44:IK:320:ARG:HG3	44:IK:356:ASN:HB3	1.98	0.45
45:IN:101:TRP:HB3	45:IN:398:TYR:HE1	1.81	0.45
45:IN:135:ILE:O	45:IN:166:THR:HA	2.15	0.45
44:JA:320:ARG:CZ	44:JA:360:PRO:HA	2.47	0.45
45:JB:113:ILE:HG13	45:JB:116:VAL:HG11	1.97	0.45
44:JC:393:HIS:O	44:JC:397:LEU:HG	2.16	0.45
45:JD:376:GLU:CA	45:JD:379:LYS:HG2	2.44	0.45
45:JF:271:ALA:HB2	45:JF:298:ASN:HD21	1.82	0.45
44:JG:46:ASP:OD1	44:JG:47:ASP:N	2.50	0.45
44:JG:103:PHE:HB2	44:JG:186:ASN:OD1	2.17	0.45
45:JH:186:THR:O	45:JH:189:VAL:HG22	2.16	0.45
45:JH:382:ALA:HB2	45:JH:415:MET:CE	2.46	0.45
45:JH:391:ARG:HG3	45:JH:391:ARG:O	2.16	0.45
44:JI:209:ILE:CG2	44:JI:227:LEU:HD22	2.46	0.45
45:JJ:238:CYS:SG	45:JJ:239:CYS:N	2.90	0.45
44:JK:328:VAL:HG11	44:JK:353:VAL:CG1	2.46	0.45
45:JL:167:PHE:HE1	45:JL:200:MET:CE	2.28	0.45
44:JM:199:ASP:OD2	44:JM:200:VAL:HG23	2.16	0.45
44:JM:212:ILE:O	44:JM:216:ASN:HB2	2.17	0.45
44:JM:214:ARG:O	44:JM:218:ASP:HA	2.17	0.45
45:JN:200:MET:CA	45:JN:266:PHE:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:268:ILE:CG1	45:JN:300:MET:HE2	2.45	0.45
45:KB:3:GLU:O	45:KB:131:GLN:N	2.45	0.45
45:KB:245:GLN:C	45:KB:246:LEU:HD12	2.37	0.45
44:KC:201:ALA:O	44:KC:268:MET:HG2	2.16	0.45
44:KC:254:GLU:O	44:KC:255:PHE:HD1	1.99	0.45
44:KC:326:LYS:HD2	44:KC:327:ASP:N	2.31	0.45
45:KD:6:HIS:HE2	45:KD:8:GLN:CD	2.20	0.45
45:KD:165:GLU:HG2	45:KD:250:LEU:HD21	1.98	0.45
45:KD:376:GLU:O	45:KD:380:ARG:HG2	2.17	0.45
44:KE:277:SER:O	44:KE:281:ALA:HB2	2.16	0.45
44:KG:261:PRO:HA	45:KJ:394:PHE:CE1	2.51	0.45
44:KI:109:THR:HG23	44:KI:110:ILE:H	1.81	0.45
45:KJ:77:ARG:NH2	45:KJ:87:PRO:HG3	2.32	0.45
45:KJ:117:LEU:O	45:KJ:120:VAL:HG12	2.17	0.45
45:KJ:325:GLU:HG2	45:KJ:326:VAL:N	2.32	0.45
45:KJ:404:ASP:HB2	45:KJ:406:MET:HE1	1.98	0.45
44:KK:70:LEU:HA	44:KK:95:GLY:HA3	1.99	0.45
44:KK:265:ILE:HD13	44:KK:431:ASP:CG	2.37	0.45
45:KL:131:GLN:HE22	45:KL:250:LEU:CG	2.29	0.45
45:KL:249:ASP:OD1	45:KL:249:ASP:N	2.49	0.45
44:KM:181:VAL:HG23	45:KN:347:ASN:O	2.16	0.45
45:KN:19:LYS:HE2	45:KN:19:LYS:HB3	1.80	0.45
44:LA:30:ILE:HD12	44:LA:30:ILE:H	1.82	0.45
44:LA:229:ARG:CD	44:LA:363:VAL:HG11	2.45	0.45
45:LB:7:ILE:HG13	45:LB:7:ILE:O	2.16	0.45
45:LB:63:ALA:O	45:LB:64:ILE:HG23	2.17	0.45
45:LB:228:LEU:HB3	45:LB:300:MET:CE	2.46	0.45
45:LB:326:VAL:HG21	45:LB:353:ILE:HD11	1.97	0.45
44:LC:19:ALA:HB3	44:LC:228:ASN:HB3	1.99	0.45
44:LC:196:GLU:OE1	44:LC:196:GLU:N	2.49	0.45
44:LC:338:LYS:HG3	44:LC:339:ARG:N	2.32	0.45
44:LE:183:GLU:CG	44:LE:184:PRO:HD3	2.45	0.45
45:LF:73:MET:O	45:LF:76:VAL:HG12	2.16	0.45
44:LI:143:GLY:HA3	46:LI:501:GTP:O2B	2.16	0.45
44:LI:270:SER:O	44:LI:302:MET:HB3	2.16	0.45
45:LJ:314:SER:OG	45:LJ:350:LYS:HB3	2.16	0.45
45:LJ:342:VAL:HG22	45:LJ:343:GLU:N	2.31	0.45
45:LJ:378:PHE:CE2	45:LJ:418:LEU:HD23	2.51	0.45
44:LK:88:HIS:CE1	44:LK:90:GLU:HG2	2.50	0.45
44:LK:226:ASN:ND2	44:LK:367:ASP:OD1	2.46	0.45
44:LK:249:ASN:H	45:LN:11:GLN:HE22	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LK:269:LEU:H	44:LK:269:LEU:HD23	1.81	0.45
44:LM:102:ASN:ND2	44:LM:411:GLU:HG3	2.32	0.45
44:LM:104:ALA:HB1	44:LM:411:GLU:HB2	1.98	0.45
44:LM:169:PHE:HA	44:LM:202:VAL:CG2	2.47	0.45
45:LN:101:TRP:HB3	45:LN:398:TYR:HE2	1.82	0.45
44:MA:325:PRO:O	44:MA:328:VAL:HB	2.17	0.45
44:MA:362:VAL:HG22	44:MA:363:VAL:N	2.31	0.45
44:MC:381:SER:O	44:MC:384:ILE:HG22	2.16	0.45
45:MD:180:VAL:O	45:MD:180:VAL:HG22	2.16	0.45
45:MD:372:THR:HA	45:MD:422:TYR:HH	1.82	0.45
44:ME:182:VAL:O	44:ME:182:VAL:HG22	2.16	0.45
44:MG:253:THR:HG23	45:MJ:98:GLY:CA	2.46	0.45
45:MJ:36:TYR:CD2	45:MJ:44:LEU:HD21	2.50	0.45
44:MK:422:ARG:NH1	44:MK:422:ARG:O	2.48	0.45
45:ML:143:THR:HG22	48:ML:501:GDP:PB	2.57	0.45
45:ML:269:GLY:HA2	45:ML:300:MET:SD	2.57	0.45
44:MM:7:ILE:HD12	44:MM:122:ILE:CD1	2.47	0.45
44:MM:11:GLN:OE1	45:MN:246:LEU:HD12	2.17	0.45
44:NA:74:VAL:O	44:NA:78:VAL:N	2.44	0.45
44:NC:305:CYS:SG	44:NC:384:ILE:HA	2.56	0.45
44:NE:183:GLU:CG	44:NE:184:PRO:HD3	2.44	0.45
44:NE:325:PRO:O	44:NE:328:VAL:N	2.48	0.45
45:NF:270:PHE:HD1	45:NF:366:THR:HG1	1.63	0.45
44:NI:307:PRO:HB2	44:NI:312:TYR:HE1	1.82	0.45
45:NJ:105:HIS:C	45:NJ:106:TYR:HD2	2.19	0.45
44:NK:292:THR:HG21	44:NK:331:SER:HB2	1.97	0.45
44:NK:320:ARG:NE	44:NK:360:PRO:HG3	2.32	0.45
45:NL:104:GLY:O	45:NL:147:MET:HB2	2.17	0.45
45:NL:181:GLU:HB3	45:NL:182:PRO:HD3	1.98	0.45
45:NN:42:LEU:HD23	45:NN:45:GLU:OE1	2.16	0.45
45:NN:133:PHE:HD2	45:NN:155:VAL:HG11	1.80	0.45
45:NN:133:PHE:HB2	45:NN:164:MET:SD	2.57	0.45
45:NN:290:THR:O	45:NN:293:MET:HB3	2.17	0.45
45:OB:29:GLY:O	45:OB:38:GLY:N	2.49	0.45
45:OB:68:LEU:HD13	45:OB:97:ALA:HB2	1.97	0.45
45:OB:144:GLY:H	48:OB:501:GDP:PB	2.35	0.45
45:OB:344:TRP:O	45:OB:345:ILE:HG23	2.16	0.45
44:OC:250:VAL:HG12	44:OC:255:PHE:CE1	2.51	0.45
45:OD:72:THR:O	45:OD:75:SER:N	2.47	0.45
44:OE:270:SER:O	44:OE:302:MET:HE3	2.16	0.45
44:OG:209:ILE:HD13	44:OG:227:LEU:CB	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:276:ILE:HG22	44:OG:277:SER:O	2.16	0.45
44:OG:427:ALA:HA	44:OG:430:LYS:HZ2	1.82	0.45
44:OK:102:ASN:OD1	44:OK:105:ARG:HG3	2.17	0.45
44:OK:276:ILE:HG22	44:OK:277:SER:O	2.16	0.45
45:OL:316:LEU:C	45:OL:365:VAL:HG23	2.36	0.45
44:OM:93:ILE:HD12	44:OM:93:ILE:H	1.82	0.45
44:PA:88:HIS:CE1	44:PA:90:GLU:HG2	2.52	0.45
44:PA:107:HIS:O	44:PA:152:LEU:HD22	2.17	0.45
44:PA:268:MET:HG3	44:PA:378:ILE:HG22	1.98	0.45
44:PA:278:ALA:N	44:PA:369:ALA:HB2	2.31	0.45
45:PB:101:TRP:HA	45:PB:142:GLY:HA3	1.98	0.45
45:PB:213:ARG:HH21	45:PB:297:LYS:HD2	1.80	0.45
45:PB:383:GLU:O	45:PB:386:THR:HG22	2.17	0.45
44:PC:11:GLN:HB3	46:PC:501:GTP:O2B	2.16	0.45
44:PC:141:VAL:HG12	44:PC:172:TYR:HA	1.95	0.45
44:PC:188:ILE:HG23	44:PC:189:LEU:N	2.30	0.45
45:PD:334:GLN:HB2	45:PD:349:ILE:CD1	2.47	0.45
44:PE:437:ILE:O	44:PE:437:ILE:HG13	2.15	0.45
45:PF:130:LEU:HD11	45:PF:133:PHE:CE1	2.50	0.45
45:PF:314:SER:OG	45:PF:350:LYS:HD3	2.16	0.45
45:PF:357:PRO:HB2	45:PF:358:PRO:HD2	1.96	0.45
45:PH:166:THR:HG1	45:PH:199:CYS:HB2	1.81	0.45
44:PI:326:LYS:HA	45:PL:208:TYR:HE1	1.81	0.45
44:PK:203:MET:CB	44:PK:303:ALA:HB2	2.46	0.45
44:PK:222:PRO:HG2	45:PL:324:LYS:CD	2.47	0.45
45:PL:234:SER:HA	45:PL:237:THR:HG22	1.99	0.45
45:PL:406:MET:O	45:PL:410:GLU:HG3	2.16	0.45
45:PN:116:VAL:O	45:PN:120:VAL:HG23	2.17	0.45
45:QB:136:THR:HA	45:QB:167:PHE:O	2.16	0.45
45:QB:417:ASP:O	45:QB:420:SER:N	2.49	0.45
44:QC:185:TYR:HD1	44:QC:395:PHE:CE2	2.35	0.45
44:QC:200:VAL:HG13	44:QC:268:MET:HE1	1.99	0.45
44:QC:209:ILE:CD1	44:QC:227:LEU:HD13	2.46	0.45
45:QD:192:LEU:HD21	45:QD:199:CYS:SG	2.56	0.45
44:QE:145:THR:HG23	44:QE:146:GLY:N	2.32	0.45
44:QE:349:THR:HG21	45:QF:182:PRO:HD3	1.98	0.45
45:QF:99:ASN:HA	45:QF:142:GLY:CA	2.25	0.45
44:QG:84:ARG:NH1	44:QG:85:GLN:HE21	2.15	0.45
44:QG:291:ILE:HG13	44:QG:292:THR:N	2.31	0.45
44:QG:372:MET:C	44:QG:373:ARG:HD3	2.36	0.45
45:QH:210:ILE:HD11	45:QH:299:MET:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:257:LEU:O	45:QH:258:ILE:HD13	2.16	0.45
44:QI:31:GLN:HE22	44:QI:37:PRO:CG	2.26	0.45
44:QI:47:ASP:HB2	44:QI:49:PHE:CE1	2.51	0.45
44:QI:104:ALA:HB1	44:QI:411:GLU:HB2	1.98	0.45
44:QI:187:SER:O	44:QI:191:THR:N	2.50	0.45
44:QI:210:TYR:CD1	44:QI:227:LEU:HD21	2.51	0.45
44:QK:238:LEU:HD23	44:QK:238:LEU:C	2.37	0.45
44:QK:247:ALA:HB3	44:QK:355:ILE:CB	2.46	0.45
44:QK:414:GLU:H	44:QK:417:GLU:HG3	1.81	0.45
45:QL:19:LYS:HA	45:QL:22:GLU:HB2	1.99	0.45
45:QL:331:LEU:HD12	45:QL:331:LEU:O	2.16	0.45
44:QM:174:SER:OG	44:QM:207:GLU:HB2	2.17	0.45
45:QN:51:TYR:HE1	45:QN:61:PRO:HG3	1.76	0.45
45:QN:166:THR:N	45:QN:198:GLU:O	2.44	0.45
45:QN:175:VAL:O	45:QN:175:VAL:HG23	2.17	0.45
44:RA:188:ILE:O	44:RA:191:THR:OG1	2.28	0.45
44:RA:313:MET:HG2	44:RA:381:SER:HA	1.98	0.45
45:RB:12:CYS:O	45:RB:16:ILE:HG12	2.17	0.45
45:RB:67:ASP:OD2	45:RB:72:THR:HG21	2.16	0.45
45:RB:325:GLU:HG3	45:RB:328:GLU:OE2	2.17	0.45
44:RC:68:LEU:HD22	44:RC:153:LEU:CD1	2.39	0.45
44:RC:175:PRO:HG3	44:RC:304:LYS:HD2	1.98	0.45
44:RE:11:GLN:HB3	46:RE:501:GTP:O1B	2.16	0.45
44:RE:250:VAL:O	44:RE:250:VAL:HG13	2.16	0.45
44:RE:291:ILE:O	44:RE:294:SER:N	2.49	0.45
45:RF:258:ILE:HB	44:RG:407:TRP:HH2	1.79	0.45
45:RF:301:CYS:SG	45:RF:377:MET:HE3	2.57	0.45
45:RF:303:ALA:N	45:RF:377:MET:HE3	2.31	0.45
44:RG:297:GLU:O	44:RG:301:MET:HE2	2.17	0.45
45:RH:3:GLU:HB2	45:RH:49:VAL:O	2.17	0.45
45:RH:317:PHE:HZ	45:RH:330:MET:HE1	1.82	0.45
44:RI:137:VAL:O	44:RI:168:GLY:HA2	2.17	0.45
44:RI:171:ILE:HG23	44:RI:204:LEU:O	2.16	0.45
45:RJ:46:ARG:HG3	45:RJ:46:ARG:NH1	2.31	0.45
45:RJ:345:ILE:HG12	45:RJ:345:ILE:O	2.16	0.45
44:RK:311:LYS:HD3	44:RK:342:GLN:HE21	1.81	0.45
44:RK:312:TYR:HD1	44:RK:381:SER:CB	2.29	0.45
44:RM:118:CYS:HB3	44:RM:120:ASP:HB2	1.98	0.45
44:RM:135:PHE:C	44:RM:136:LEU:HD23	2.36	0.45
45:RN:178:THR:HG22	45:RN:179:VAL:N	2.32	0.45
45:RN:314:SER:HA	45:RN:350:LYS:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:184:PRO:HG2	44:SA:398:MET:CE	2.47	0.45
44:SA:188:ILE:HD12	44:SA:425:LEU:CD1	2.32	0.45
44:SA:252:ILE:HA	44:SA:255:PHE:CD2	2.52	0.45
44:SA:295:ALA:O	44:SA:301:MET:HE3	2.16	0.45
45:SB:255:VAL:CG1	44:SC:100:ALA:HB1	2.46	0.45
44:SC:1:MET:CE	45:SD:94:GLN:HB3	2.46	0.45
44:SC:7:ILE:HD12	44:SC:136:LEU:O	2.16	0.45
44:SC:51:THR:HG23	44:SC:52:PHE:N	2.31	0.45
44:SC:254:GLU:HB3	44:SC:258:ASN:HD21	1.81	0.45
45:SD:86:ARG:HH22	45:TD:281:TYR:HB2	1.81	0.45
44:SE:72:PRO:O	44:SE:76:ASP:N	2.44	0.45
45:SF:131:GLN:HG3	45:SF:250:LEU:HD12	1.97	0.45
45:SH:418:LEU:O	45:SH:422:TYR:HB2	2.16	0.45
44:SI:102:ASN:HB3	44:SI:105:ARG:NE	2.31	0.45
44:SI:298:PRO:HA	44:SI:301:MET:HG2	1.98	0.45
45:SJ:286:VAL:HB	45:SJ:287:PRO:HD3	1.98	0.45
44:SK:84:ARG:HH11	44:SK:85:GLN:NE2	2.15	0.45
44:SK:288:VAL:HB	44:SK:323:VAL:CG2	2.46	0.45
45:SL:105:HIS:ND1	45:SL:150:LEU:HD12	2.31	0.45
44:SM:138:PHE:CE1	44:SM:169:PHE:HD2	2.34	0.45
44:SM:205:ASP:OD2	44:SM:304:LYS:HB2	2.16	0.45
44:SM:285:GLN:O	44:SM:286:LEU:HB2	2.17	0.45
45:SN:315:ALA:HB3	45:SN:351:SER:CA	2.36	0.45
45:SN:329:GLN:O	45:SN:333:VAL:HG23	2.17	0.45
44:TA:202:VAL:HG12	44:TA:203:MET:N	2.32	0.45
44:TA:317:MET:HG3	44:TA:377:MET:HB3	1.97	0.45
44:TA:433:GLU:O	44:TA:437:ILE:HG23	2.16	0.45
45:TB:198:GLU:OE2	45:TB:254:ALA:HB2	2.17	0.45
45:TB:252:LYS:O	45:TB:255:VAL:HB	2.17	0.45
44:TC:248:LEU:CB	44:TC:355:ILE:HD11	2.46	0.45
45:TD:423:GLN:O	45:TD:426:GLN:HB3	2.15	0.45
44:TE:286:LEU:CD2	44:TE:373:ARG:HH21	2.29	0.45
45:TF:42:LEU:HD23	45:TF:243:PRO:CD	2.47	0.45
45:TF:210:ILE:CG2	45:TF:273:LEU:HD12	2.42	0.45
45:TF:245:GLN:C	45:TF:246:LEU:HD12	2.37	0.45
45:TF:286:VAL:HG21	44:TG:221:ARG:HH12	1.81	0.45
44:TG:141:VAL:CG1	44:TG:141:VAL:O	2.63	0.45
44:TG:209:ILE:HD12	44:TG:302:MET:CE	2.47	0.45
45:TH:260:PHE:HB3	45:TH:261:PRO:CD	2.40	0.45
45:TH:372:THR:HA	45:TH:422:TYR:HE2	1.81	0.45
44:TI:68:LEU:HD21	44:TI:118:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:155:GLU:HG2	44:TI:197:HIS:CD2	2.50	0.45
44:TI:210:TYR:CE1	44:TI:227:LEU:HD11	2.46	0.45
45:TJ:178:THR:HG22	45:TJ:181:GLU:N	2.31	0.45
45:TJ:406:MET:O	45:TJ:410:GLU:N	2.34	0.45
44:TK:437:ILE:HG13	44:TK:437:ILE:O	2.15	0.45
45:TL:21:TRP:HZ3	45:TL:50:TYR:HB3	1.80	0.45
44:TM:25:CYS:O	44:TM:30:ILE:N	2.48	0.45
45:TN:60:VAL:HG23	45:TN:84:LEU:O	2.16	0.45
45:TN:224:ASP:HA	45:TN:227:HIS:HB3	1.99	0.45
45:TN:290:THR:HG21	45:TN:329:GLN:NE2	2.32	0.45
44:UA:234:VAL:HG22	44:UA:376:CYS:SG	2.56	0.45
44:UA:353:VAL:HG22	45:UB:177:ASP:O	2.16	0.45
44:UC:6:SER:C	44:UC:7:ILE:HD13	2.36	0.45
44:UC:291:ILE:HG13	44:UC:292:THR:N	2.32	0.45
44:UE:114:ILE:O	44:UE:114:ILE:HG22	2.17	0.45
44:UE:201:ALA:HB3	44:UE:267:PHE:CD2	2.51	0.45
45:UF:151:LEU:O	45:UF:154:LYS:HB2	2.16	0.45
44:UG:246:GLY:HA2	44:UG:357:TYR:CD2	2.51	0.45
45:UH:170:VAL:CG2	45:UH:201:VAL:HG21	2.46	0.45
45:UH:358:PRO:HG2	45:UH:364:ALA:CB	2.47	0.45
45:UJ:11:GLN:HB3	48:UJ:501:GDP:O1A	2.16	0.45
45:UJ:324:LYS:HG3	44:UK:210:TYR:CD2	2.51	0.45
44:UK:122:ILE:HG22	44:UK:161:TYR:OH	2.16	0.45
45:UL:24:ILE:O	45:UL:27:GLU:N	2.49	0.45
45:UL:61:PRO:CD	45:UL:84:LEU:HB3	2.45	0.45
45:UL:325:GLU:O	45:UL:329:GLN:N	2.38	0.45
44:UM:102:ASN:O	44:UM:105:ARG:HB2	2.17	0.45
45:UN:190:HIS:HB2	45:UN:411:ALA:HB1	1.99	0.45
45:UN:310:TYR:HA	45:UN:371:SER:OG	2.16	0.45
44:VA:19:ALA:CB	44:VA:228:ASN:HB3	2.46	0.45
44:VA:258:ASN:CG	45:VD:179:VAL:HG12	2.36	0.45
45:VB:154:LYS:O	45:VB:157:GLU:HB3	2.17	0.45
45:VB:325:GLU:HA	45:VB:328:GLU:CG	2.34	0.45
44:VC:8:HIS:HD1	44:VC:67:PHE:HE1	1.63	0.45
44:VC:10:GLY:HA2	46:VC:501:GTP:O1B	2.17	0.45
44:VC:398:MET:HE1	45:VD:346:PRO:CD	2.46	0.45
45:VD:6:HIS:CE1	45:VD:134:GLN:HE21	2.34	0.45
45:VF:186:THR:HG21	45:VF:385:PHE:CD2	2.52	0.45
44:VI:103:PHE:O	44:VI:106:GLY:N	2.47	0.45
44:VI:363:VAL:HG23	44:VI:364:PRO:HD2	1.99	0.45
45:VJ:178:THR:HG22	45:VJ:180:VAL:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:410:GLU:O	45:VJ:413:SER:N	2.48	0.45
44:VM:248:LEU:HB2	44:VM:355:ILE:HD12	1.98	0.45
45:VN:148:GLY:O	45:VN:151:LEU:HB3	2.17	0.45
45:VN:317:PHE:CA	45:VN:365:VAL:HG22	2.35	0.45
45:VN:377:MET:HA	45:VN:380:ARG:CD	2.46	0.45
44:WA:2:ARG:HH22	45:WD:70:PRO:N	2.13	0.45
44:WA:209:ILE:HA	44:WA:212:ILE:CG1	2.47	0.45
44:WC:28:HIS:C	44:WC:30:ILE:HD12	2.37	0.45
44:WC:101:ASN:ND2	46:WC:501:GTP:O1G	2.50	0.45
45:WD:104:GLY:O	45:WD:147:MET:HB2	2.16	0.45
45:WD:213:ARG:HH21	45:WD:297:LYS:CD	2.25	0.45
44:WE:398:MET:HB2	44:WE:398:MET:HE2	1.82	0.45
44:WG:8:HIS:CD2	44:WG:138:PHE:HD1	2.34	0.45
44:WG:144:GLY:O	44:WG:147:SER:N	2.49	0.45
45:WH:215:LEU:HB3	45:WH:217:LEU:HD23	1.99	0.45
45:WH:257:LEU:HA	45:WH:312:THR:HG23	1.98	0.45
44:WI:242:LEU:HD11	44:WI:252:ILE:H	1.81	0.45
45:WJ:243:PRO:O	45:WJ:355:ASP:HB2	2.17	0.45
44:WK:183:GLU:N	44:WK:184:PRO:HD2	2.31	0.45
44:WK:231:ILE:HA	44:WK:234:VAL:CG2	2.45	0.45
44:WK:311:LYS:HA	44:WK:342:GLN:CD	2.36	0.45
44:WK:439:THR:HG21	45:WN:390:ARG:HD2	1.99	0.45
45:WL:8:GLN:OE1	45:WL:17:GLY:HA3	2.17	0.45
45:WL:12:CYS:SG	45:WL:138:SER:HB2	2.57	0.45
45:WL:263:LEU:HG	45:WL:422:TYR:CD1	2.52	0.45
45:WL:272:PRO:C	45:WL:273:LEU:HD23	2.37	0.45
44:WM:55:GLU:HG3	44:WM:57:GLY:H	1.81	0.45
44:WM:195:LEU:HD11	44:WM:428:LEU:CD1	2.43	0.45
45:WN:11:GLN:HB2	48:WN:501:GDP:O3B	2.16	0.45
1:6H:226:PHE:CD1	44:FC:364:PRO:CG	3.00	0.45
1:6H:284:ARG:HB3	45:FH:19:LYS:NZ	2.30	0.45
15:0V:24:ARG:HH12	44:MM:430:LYS:HD3	1.77	0.45
18:1F:63:VAL:CG2	45:GL:56:GLY:HA2	2.47	0.45
20:1J:314:VAL:CG1	44:IK:372:MET:CE	2.93	0.45
22:1L:832:PRO:HG3	35:7R:111:TYR:CD1	2.49	0.45
10:1N:6:VAL:HB	45:IJ:128:ASP:OD1	2.16	0.45
10:1N:16:ILE:CG2	45:IJ:48:ASN:HD22	2.29	0.45
12:1S:275:TYR:CE2	45:WF:86:ARG:NH2	2.84	0.45
32:2I:78:PRO:HD3	44:FE:123:ARG:HH12	1.79	0.45
32:2I:130:PHE:CA	44:FC:96:LYS:HE3	2.46	0.45
12:2S:46:TRP:HE1	44:WG:88:HIS:CD2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:3R:99:VAL:HG21	44:AK:41:THR:C	2.36	0.45
16:3X:90:ARG:HH12	35:6R:49:ASN:CG	2.20	0.45
16:4X:53:ILE:HD11	44:LI:279:GLU:OE1	2.17	0.45
37:5D:34:PHE:CE1	44:KK:431:ASP:OD2	2.69	0.45
37:5D:46:ILE:HB	44:KK:434:GLU:CD	2.35	0.45
37:5D:56:ILE:H	45:KN:391:ARG:CZ	2.27	0.45
37:5D:108:ARG:N	44:NM:278:ALA:N	2.64	0.45
37:5D:118:PRO:HB3	44:NM:355:ILE:HB	1.98	0.45
38:5E:140:ASN:CB	45:OD:361:LEU:HD21	2.38	0.45
38:5F:124:TYR:CE1	44:OE:282:TYR:HA	2.51	0.45
38:5H:55:GLU:OE2	38:5H:59:THR:HG21	2.17	0.45
38:5H:104:MET:CG	38:5H:105:LYS:H	2.29	0.45
39:5J:22:TRP:HA	39:5J:25:VAL:HG23	1.99	0.45
35:5R:440:ARG:NH1	35:5R:465:ILE:HD13	2.32	0.45
35:6R:239:GLY:O	35:6R:241:PRO:HD3	2.17	0.45
35:6R:477:ASN:HA	35:6R:484:PRO:HA	1.99	0.45
42:8L:341:UNK:O	42:8L:345:UNK:N	2.50	0.45
44:AA:155:GLU:HG2	44:AA:197:HIS:HE1	1.78	0.45
44:AA:324:VAL:HG13	44:AA:325:PRO:HD2	1.98	0.45
45:AB:15:GLN:O	45:AB:19:LYS:HG2	2.17	0.45
45:AB:269:GLY:HA3	45:AB:299:MET:CE	2.47	0.45
45:AB:389:PHE:CE1	45:AB:408:PHE:HB3	2.52	0.45
44:AC:276:ILE:HG22	44:AC:281:ALA:HB2	1.98	0.45
45:AD:181:GLU:O	45:AD:184:ASN:OD1	2.34	0.45
45:AD:282:ARG:NH1	45:AD:282:ARG:HB3	2.32	0.45
45:AD:316:LEU:HB2	45:AD:366:THR:HG22	1.99	0.45
45:AD:318:ARG:HD2	45:AD:358:PRO:HD3	1.99	0.45
44:AE:305:CYS:SG	44:AE:383:ALA:HB1	2.56	0.45
45:AF:239:CYS:HA	45:AF:354:CYS:SG	2.56	0.45
44:AG:30:ILE:HD13	44:AG:53:PHE:CE2	2.51	0.45
44:AG:238:LEU:HD23	44:AG:238:LEU:C	2.37	0.45
45:AH:253:LEU:O	45:AH:257:LEU:HD13	2.17	0.45
44:AI:11:GLN:NE2	44:AI:74:VAL:HG11	2.31	0.45
44:AI:28:HIS:CE1	44:AI:243:ARG:HH11	2.35	0.45
44:AI:91:GLN:O	44:AI:93:ILE:HD12	2.17	0.45
44:AI:153:LEU:O	44:AI:157:LEU:HD13	2.17	0.45
44:AI:210:TYR:O	44:AI:213:CYS:HB2	2.17	0.45
45:AJ:103:LYS:HA	45:AJ:107:THR:OG1	2.17	0.45
45:AN:86:ARG:HH22	45:BN:278:SER:HA	1.80	0.45
44:BA:288:VAL:HG12	44:BA:373:ARG:NE	2.30	0.45
44:BA:313:MET:HG2	44:BA:380:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BB:105:HIS:CE1	45:BB:150:LEU:HD12	2.52	0.45
45:BB:203:ASP:O	45:BB:207:LEU:HG	2.17	0.45
44:BC:105:ARG:O	44:BC:110:ILE:HG12	2.16	0.45
45:BD:392:LYS:HG3	45:BD:395:LEU:CD2	2.47	0.45
44:BE:154:LEU:HD22	44:BE:166:LYS:HD2	1.98	0.45
44:BE:297:GLU:OE1	44:BE:299:ALA:N	2.45	0.45
44:BG:317:MET:HE2	44:BG:319:TYR:HE1	1.81	0.45
45:BH:39:ASP:H	45:BH:43:GLN:CD	2.18	0.45
45:BH:135:ILE:HG13	45:BH:152:ILE:CD1	2.45	0.45
45:BH:295:ASP:OD1	45:BH:296:ALA:N	2.50	0.45
44:BI:181:VAL:HG23	45:BJ:347:ASN:O	2.17	0.45
44:BI:305:CYS:SG	44:BI:383:ALA:HB1	2.57	0.45
45:BJ:36:TYR:CD2	45:BJ:44:LEU:HD21	2.52	0.45
45:BJ:237:THR:O	45:BJ:241:ARG:HG2	2.16	0.45
45:BN:170:VAL:HG23	45:BN:171:PRO:HD2	1.99	0.45
45:BN:207:LEU:O	45:BN:210:ILE:HG22	2.17	0.45
45:BN:242:PHE:CE1	45:BN:356:ILE:HG21	2.51	0.45
44:CA:295:ALA:HB1	44:CA:377:MET:HE3	1.95	0.45
44:CA:320:ARG:HG3	44:CA:360:PRO:HD3	1.99	0.45
45:CB:12:CYS:HB2	48:CB:501:GDP:C8	2.50	0.45
44:CC:401:LYS:O	44:CC:402:ARG:HG2	2.17	0.45
45:CD:23:VAL:O	45:CD:26:ASP:HB2	2.16	0.45
45:CD:187:LEU:HD21	45:CD:408:PHE:CD1	2.52	0.45
44:CE:51:THR:O	44:CE:52:PHE:HD2	1.99	0.45
45:CF:45:GLU:HA	45:CF:45:GLU:OE1	2.17	0.45
44:CG:319:TYR:HD2	44:CG:323:VAL:HG21	1.82	0.45
44:CG:352:LYS:HZ1	45:CH:178:THR:HA	1.75	0.45
45:CH:114:ASP:OD1	45:CH:114:ASP:N	2.48	0.45
45:CH:181:GLU:N	45:CH:182:PRO:CD	2.80	0.45
45:CH:268:ILE:O	45:CH:300:MET:HB3	2.16	0.45
45:CJ:263:LEU:CD2	45:CJ:422:TYR:HD1	2.29	0.45
44:CK:172:TYR:HD2	44:CK:203:MET:SD	2.40	0.45
44:CK:313:MET:HG2	44:CK:380:ASN:O	2.16	0.45
45:CL:124:ALA:O	45:CL:130:LEU:HD21	2.16	0.45
45:CL:311:LEU:HG	45:CL:370:ASN:HB3	1.98	0.45
45:CN:116:VAL:HA	45:CN:119:VAL:CG1	2.44	0.45
45:CN:267:MET:O	45:CN:368:VAL:HG13	2.16	0.45
45:CN:318:ARG:HD3	45:CN:358:PRO:CD	2.42	0.45
45:CN:321:MET:HE1	45:CN:322:SER:O	2.15	0.45
44:DA:5:ILE:HD12	44:DA:132:LEU:HD11	1.99	0.45
44:DA:143:GLY:O	44:DA:147:SER:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:154:LEU:HA	44:DA:157:LEU:HB2	1.98	0.45
45:DB:86:ARG:CB	45:DB:89:ASN:HB2	2.43	0.45
45:DB:383:GLU:O	45:DB:386:THR:HG22	2.17	0.45
44:DC:315:CYS:HB3	44:DC:350:GLY:O	2.16	0.45
44:DC:363:VAL:CG2	44:DC:364:PRO:HD2	2.46	0.45
44:DE:208:ALA:HB3	44:DE:302:MET:O	2.16	0.45
44:DE:352:LYS:HD2	45:DF:177:ASP:O	2.16	0.45
45:DF:272:PRO:HG3	45:DF:289:LEU:HD23	1.97	0.45
45:DF:309:ARG:H	45:DF:372:THR:CG2	2.30	0.45
45:DH:25:SER:HB3	45:DH:30:ILE:O	2.17	0.45
45:DH:254:ALA:O	44:DI:407:TRP:HZ3	2.00	0.45
45:DH:406:MET:O	45:DH:409:THR:HG22	2.17	0.45
44:DI:270:SER:O	44:DI:302:MET:HB3	2.16	0.45
45:DJ:7:ILE:HG12	45:DJ:64:ILE:CD1	2.47	0.45
45:DJ:135:ILE:HG21	45:DJ:152:ILE:HD11	1.98	0.45
44:DK:75:ILE:HD12	44:DK:75:ILE:H	1.80	0.45
44:DK:88:HIS:CE1	44:DK:90:GLU:HG2	2.51	0.45
44:DK:141:VAL:HG23	44:DK:190:SER:OG	2.16	0.45
44:DK:258:ASN:ND2	44:DK:352:LYS:HE3	2.27	0.45
45:DL:310:TYR:CE1	45:DL:371:SER:HB2	2.51	0.45
44:DM:281:ALA:O	44:DM:284:GLU:HG2	2.16	0.45
45:DN:61:PRO:CD	45:DN:84:LEU:HB3	2.47	0.45
45:DN:233:MET:CE	45:DN:233:MET:HA	2.47	0.45
45:DN:249:ASP:O	45:DN:253:LEU:HD13	2.17	0.45
45:EB:2:ARG:CZ	45:EB:240:LEU:HG	2.45	0.45
45:EB:100:ASN:ND2	45:EB:103:LYS:HG2	2.30	0.45
45:EB:399:THR:HA	45:EB:403:MET:SD	2.56	0.45
44:EC:135:PHE:O	44:EC:136:LEU:HD23	2.16	0.45
44:EE:172:TYR:HB3	44:EE:173:PRO:CD	2.47	0.45
44:EE:387:VAL:O	44:EE:391:LEU:HD13	2.16	0.45
45:EF:73:MET:HE3	45:EF:92:PHE:HB2	1.99	0.45
45:EF:113:ILE:O	45:EF:116:VAL:HG12	2.16	0.45
45:EF:345:ILE:O	45:EF:345:ILE:HG23	2.16	0.45
45:EF:378:PHE:HA	45:EF:381:VAL:HG11	1.98	0.45
44:EG:22:GLU:HG3	44:EG:83:TYR:CZ	2.52	0.45
44:EG:106:GLY:O	44:EG:148:GLY:HA3	2.16	0.45
44:EG:326:LYS:NZ	45:EH:208:TYR:CG	2.83	0.45
44:EI:326:LYS:HA	44:EI:326:LYS:HD3	1.64	0.45
45:EJ:18:ALA:HB2	45:EJ:76:VAL:HG23	1.98	0.45
45:EJ:60:VAL:HG23	45:EJ:84:LEU:O	2.16	0.45
44:EK:217:LEU:HA	44:EK:277:SER:HG	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:237:SER:HB3	44:EK:376:CYS:SG	2.56	0.45
45:EL:135:ILE:CB	45:EL:166:THR:HG22	2.38	0.45
45:EN:161:ASP:OD1	45:EN:162:ARG:N	2.49	0.45
44:FA:292:THR:HG21	44:FA:331:SER:HB3	1.98	0.45
44:FA:312:TYR:CE1	44:FA:341:ILE:HG23	2.52	0.45
45:FB:138:SER:CA	45:FB:169:VAL:HB	2.46	0.45
45:FD:286:VAL:HA	45:FD:289:LEU:CD1	2.41	0.45
45:FD:317:PHE:HB2	45:FD:352:SER:O	2.16	0.45
45:FF:36:TYR:CD1	45:FF:44:LEU:HD11	2.51	0.45
44:FG:101:ASN:HA	44:FG:144:GLY:H	1.80	0.45
45:FH:180:VAL:O	45:FH:180:VAL:HG22	2.16	0.45
44:FI:156:ARG:HG3	44:FI:160:ASP:OD2	2.16	0.45
45:FJ:206:ALA:HB3	45:FJ:300:MET:O	2.17	0.45
45:FJ:268:ILE:HG13	45:FJ:300:MET:CE	2.46	0.45
44:FK:184:PRO:HG2	44:FK:398:MET:SD	2.57	0.45
45:FL:72:THR:HG23	45:FL:73:MET:N	2.32	0.45
45:FL:165:GLU:OE2	45:FL:250:LEU:HD11	2.16	0.45
44:FM:96:LYS:HB3	45:FN:1:MET:HE2	1.99	0.45
45:FN:273:LEU:H	45:FN:292:GLN:HE22	1.64	0.45
44:GC:101:ASN:OD1	44:GC:182:VAL:HG13	2.17	0.45
44:GC:183:GLU:OE2	44:GC:184:PRO:HD3	2.16	0.45
44:GE:271:SER:HG	44:GE:301:MET:HA	1.80	0.45
44:GE:291:ILE:HG13	44:GE:292:THR:N	2.31	0.45
45:GF:86:ARG:HD2	45:HF:281:TYR:CZ	2.51	0.45
45:GH:32:PRO:HG3	45:GH:81:PHE:CE2	2.52	0.45
45:GH:99:ASN:HA	45:GH:142:GLY:CA	2.45	0.45
45:GH:314:SER:HB2	45:GH:350:LYS:HB3	1.98	0.45
44:GI:169:PHE:HB3	44:GI:204:LEU:HD11	1.98	0.45
44:GI:205:ASP:OD1	44:GI:303:ALA:HA	2.16	0.45
44:GI:257:THR:HG22	45:GL:397:TRP:CZ3	2.52	0.45
44:GK:102:ASN:HD21	44:GK:411:GLU:HG3	1.81	0.45
44:GK:345:ASP:OD2	45:GN:390:ARG:NH1	2.49	0.45
45:GL:180:VAL:HG23	45:GL:183:TYR:CD2	2.51	0.45
45:GL:256:ASN:C	45:GL:257:LEU:HD12	2.37	0.45
44:GM:166:LYS:C	44:GM:167:LEU:HD12	2.37	0.45
44:GM:187:SER:OG	44:GM:188:ILE:N	2.50	0.45
44:GM:195:LEU:HA	44:GM:266:HIS:NE2	2.32	0.45
44:GM:205:ASP:OD2	44:GM:304:LYS:N	2.37	0.45
45:GN:8:GLN:HB3	45:GN:13:GLY:C	2.37	0.45
45:GN:187:LEU:HD11	45:GN:408:PHE:CE1	2.51	0.45
44:HA:51:THR:HG21	44:HA:243:ARG:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:181:VAL:HG22	45:HB:256:ASN:ND2	2.30	0.45
44:HA:387:VAL:HG23	44:HA:388:PHE:N	2.31	0.45
45:HB:286:VAL:CB	45:HB:287:PRO:CD	2.92	0.45
44:HC:143:GLY:HA3	46:HC:501:GTP:O2B	2.17	0.45
44:HC:332:ILE:HA	44:HC:335:ILE:HG22	1.99	0.45
44:HC:404:PHE:HE1	45:HD:259:PRO:CA	2.12	0.45
44:HE:291:ILE:HD13	44:HE:373:ARG:CD	2.47	0.45
44:HE:326:LYS:HA	44:HE:326:LYS:CE	2.42	0.45
45:HH:237:THR:O	45:HH:237:THR:CG2	2.63	0.45
45:HH:322:SER:OG	45:HH:325:GLU:HB3	2.17	0.45
45:HH:374:ILE:HD11	45:HH:422:TYR:CZ	2.52	0.45
44:HK:236:SER:O	44:HK:240:ALA:N	2.50	0.45
44:HK:372:MET:HG3	44:HK:373:ARG:HD3	1.97	0.45
45:HL:362:LYS:CD	45:HL:363:MET:HG3	2.38	0.45
45:HL:420:SER:O	45:HL:423:GLN:HG3	2.15	0.45
44:IA:439:THR:HG21	45:ID:390:ARG:HD2	1.99	0.45
45:IB:245:GLN:C	45:IB:246:LEU:HD12	2.37	0.45
45:IB:311:LEU:HD12	45:IB:370:ASN:OD1	2.15	0.45
44:IC:23:LEU:HD22	44:IC:233:GLN:HA	1.99	0.45
44:IC:221:ARG:HH11	45:ID:325:GLU:H	1.64	0.45
45:IF:293:MET:HG2	45:IF:367:PHE:CD1	2.52	0.45
44:IG:102:ASN:HB3	44:IG:105:ARG:HB2	1.99	0.45
45:IH:215:LEU:HD21	45:IH:273:LEU:HB3	1.98	0.45
45:IH:318:ARG:NH1	45:IH:358:PRO:HG3	2.31	0.45
44:II:81:GLY:O	44:II:84:ARG:HG2	2.16	0.45
44:II:326:LYS:HE3	44:II:327:ASP:OD2	2.17	0.45
45:IJ:86:ARG:HE	45:IJ:87:PRO:CD	2.30	0.45
44:IM:422:ARG:HH12	44:IM:426:ALA:HB2	1.81	0.45
45:JB:173:PRO:HG2	45:JB:380:ARG:HD2	1.98	0.45
45:JB:276:ARG:NE	45:JB:276:ARG:HA	2.32	0.45
44:JC:200:VAL:HG13	44:JC:268:MET:SD	2.56	0.45
44:JG:270:SER:HB2	44:JG:378:ILE:HA	1.98	0.45
45:JH:279:GLN:HB3	45:JH:280:GLN:NE2	2.32	0.45
44:JI:150:GLY:O	44:JI:154:LEU:HG	2.15	0.45
45:JJ:14:ASN:ND2	45:JJ:76:VAL:HB	2.29	0.45
45:JL:267:MET:N	45:JL:369:GLY:O	2.41	0.45
45:JL:344:TRP:HB3	45:JL:430:ALA:HB2	1.98	0.45
44:JM:151:SER:HA	44:JM:154:LEU:HD12	1.97	0.45
44:JM:156:ARG:O	44:JM:159:VAL:HG12	2.17	0.45
45:JN:20:PHE:CE1	45:JN:234:SER:HB2	2.52	0.45
45:JN:117:LEU:O	45:JN:120:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:349:THR:O	45:KD:179:VAL:HG13	2.15	0.45
45:KB:221:THR:HG22	45:KB:224:ASP:OD2	2.17	0.45
44:KC:141:VAL:HG12	44:KC:187:SER:HA	1.99	0.45
45:KF:65:LEU:HD12	45:KF:90:PHE:CE1	2.43	0.45
45:KF:173:PRO:HD3	45:KF:380:ARG:HD2	1.97	0.45
44:KG:67:PHE:HB2	44:KG:92:LEU:HD22	1.97	0.45
45:KH:391:ARG:O	45:KH:392:LYS:HG2	2.17	0.45
45:KJ:108:GLU:O	45:KJ:111:GLU:HG2	2.16	0.45
44:KK:172:TYR:HD1	44:KK:173:PRO:HD2	1.81	0.45
45:KL:102:ALA:HB1	45:KL:401:GLU:HG3	1.97	0.45
45:KL:396:HIS:O	45:KL:399:THR:HG22	2.16	0.45
44:KM:7:ILE:CD1	44:KM:66:VAL:HG11	2.47	0.45
45:KN:77:ARG:HG3	45:KN:82:GLY:O	2.17	0.45
45:KN:330:MET:HA	45:KN:333:VAL:HG12	1.98	0.45
44:LA:105:ARG:HH21	44:LA:110:ILE:HD11	1.81	0.45
44:LA:268:MET:SD	44:LA:378:ILE:HG12	2.57	0.45
44:LC:195:LEU:HD21	44:LC:264:ARG:HH21	1.81	0.45
44:LC:329:ASN:OD1	45:LF:175:VAL:HG12	2.16	0.45
44:LC:363:VAL:HG22	44:LC:364:PRO:HD2	1.97	0.45
45:LD:20:PHE:O	45:LD:23:VAL:HG12	2.17	0.45
45:LD:257:LEU:HD13	45:LD:312:THR:CB	2.47	0.45
44:LE:269:LEU:CD1	44:LE:305:CYS:HB2	2.47	0.45
45:LF:172:SER:OG	45:LF:175:VAL:HG22	2.17	0.45
45:LH:270:PHE:O	45:LH:298:ASN:ND2	2.42	0.45
44:LI:12:GLY:O	44:LI:16:VAL:HG22	2.17	0.45
44:LI:100:ALA:O	45:LJ:255:VAL:HG11	2.16	0.45
45:LJ:49:VAL:HG22	45:LJ:50:TYR:HD1	1.80	0.45
45:LJ:245:GLN:C	45:LJ:246:LEU:HD12	2.37	0.45
45:LL:31:ASP:O	45:LL:34:GLY:N	2.43	0.45
44:LM:428:LEU:HD21	44:LM:432:TYR:CE2	2.52	0.45
45:LN:175:VAL:O	45:LN:175:VAL:HG23	2.16	0.45
45:LN:310:TYR:CD1	45:LN:371:SER:HB2	2.52	0.45
45:LN:380:ARG:O	45:LN:383:GLU:HG2	2.15	0.45
45:MD:152:ILE:O	45:MD:155:VAL:HG22	2.17	0.45
45:MD:253:LEU:O	45:MD:257:LEU:HD23	2.15	0.45
45:MF:304:ASP:OD1	45:MF:305:PRO:HD2	2.16	0.45
44:MG:11:GLN:HG3	44:MG:74:VAL:HG11	1.98	0.45
44:MG:185:TYR:CE2	44:MG:398:MET:HE3	2.52	0.45
44:MG:288:VAL:O	44:MG:291:ILE:HG22	2.17	0.45
44:MG:326:LYS:HD3	45:MJ:212:PHE:CZ	2.51	0.45
45:MH:101:TRP:CZ3	45:MH:187:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:204:LEU:HD21	44:MI:231:ILE:CD1	2.46	0.45
44:MI:223:THR:HB	45:MJ:322:SER:HB3	1.98	0.45
44:MI:273:ALA:HB1	44:MI:274:PRO:HA	1.98	0.45
44:MI:430:LYS:O	44:MI:430:LYS:HG2	2.16	0.45
45:MJ:32:PRO:HG3	45:MJ:81:PHE:CE2	2.52	0.45
45:MJ:238:CYS:HB2	45:MJ:318:ARG:HH21	1.80	0.45
44:MK:100:ALA:C	45:ML:252:LYS:HZ3	2.20	0.45
44:MK:273:ALA:HB1	44:MK:274:PRO:HA	1.99	0.45
44:MM:284:GLU:HG3	44:MM:286:LEU:CD2	2.36	0.45
45:NB:207:LEU:CB	45:NB:225:LEU:HD22	2.40	0.45
44:NC:181:VAL:HG12	45:ND:256:ASN:OD1	2.17	0.45
45:NF:2:ARG:NH2	45:NF:240:LEU:HD12	2.32	0.45
45:NH:395:LEU:HG	45:NH:399:THR:HG23	1.99	0.45
44:NI:3:GLU:HG2	44:NI:64:ARG:CZ	2.47	0.45
45:NJ:2:ARG:C	45:NJ:131:GLN:HB2	2.37	0.45
45:NJ:45:GLU:O	45:NJ:46:ARG:HD3	2.17	0.45
45:NJ:141:GLY:HA3	48:NJ:501:GDP:PB	2.56	0.45
44:NK:73:THR:CG2	45:NL:2:ARG:HH21	2.23	0.45
44:NK:268:MET:HG3	44:NK:269:LEU:N	2.32	0.45
45:NL:324:LYS:HG3	45:NL:325:GLU:H	1.80	0.45
45:NL:391:ARG:O	45:NL:392:LYS:HG2	2.15	0.45
44:NM:257:THR:HG22	44:NM:257:THR:O	2.15	0.45
45:NN:86:ARG:CG	45:NN:89:ASN:H	2.30	0.45
45:OB:395:LEU:O	45:OB:398:TYR:HB2	2.17	0.45
44:OC:287:SER:OG	44:OC:290:GLU:HG2	2.17	0.45
45:OD:113:ILE:HD12	45:OD:150:LEU:HD23	1.99	0.45
45:OD:302:ALA:H	45:OD:377:MET:HE1	1.81	0.45
44:OE:207:GLU:CD	44:OE:304:LYS:HE3	2.37	0.45
44:OE:212:ILE:HD13	44:OE:215:ARG:HH22	1.81	0.45
45:OF:46:ARG:CB	45:OF:241:ARG:HB2	2.32	0.45
45:OF:154:LYS:O	45:OF:158:GLU:HG3	2.16	0.45
45:OH:8:GLN:HE21	45:OH:65:LEU:HG	1.81	0.45
45:OH:116:VAL:O	45:OH:119:VAL:HG22	2.16	0.45
45:OH:280:GLN:HG3	45:OH:281:TYR:CE1	2.52	0.45
44:OI:11:GLN:HA	44:OI:14:ILE:CG1	2.46	0.45
44:OI:115:VAL:CG2	44:OI:152:LEU:HD23	2.46	0.45
44:OI:159:VAL:O	44:OI:159:VAL:HG22	2.17	0.45
45:OJ:242:PHE:CD2	45:OJ:356:ILE:HG21	2.52	0.45
44:OK:224:TYR:HB3	46:OL:501:GTP:O6	2.16	0.45
44:OK:229:ARG:HD2	44:OK:363:VAL:CG1	2.43	0.45
45:OL:44:LEU:HD22	45:OL:47:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:62:ARG:HG3	45:OL:62:ARG:O	2.15	0.45
44:OM:75:ILE:HD11	44:OM:92:LEU:CG	2.45	0.45
44:OM:151:SER:HB3	44:OM:193:SER:OG	2.16	0.45
44:OM:167:LEU:HD23	44:OM:200:VAL:HB	1.99	0.45
45:ON:178:THR:N	45:ON:181:GLU:OE2	2.48	0.45
45:ON:318:ARG:NH1	45:ON:358:PRO:HB3	2.31	0.45
44:PA:14:ILE:CD1	44:PA:69:ASP:HB2	2.47	0.45
45:PB:86:ARG:HB3	45:PB:89:ASN:OD1	2.17	0.45
45:PB:318:ARG:O	45:PB:364:ALA:HB3	2.17	0.45
44:PC:27:GLU:HB2	44:PC:361:THR:HG21	1.99	0.45
44:PC:223:THR:HB	45:PD:322:SER:HB3	1.98	0.45
45:PD:213:ARG:HH21	45:PD:297:LYS:CE	2.27	0.45
45:PD:315:ALA:HB1	45:PD:365:VAL:CG1	2.47	0.45
44:PE:11:GLN:HB2	46:PE:501:GTP:O1B	2.17	0.45
44:PI:172:TYR:HB3	44:PI:173:PRO:HD2	1.97	0.45
44:PI:256:GLN:CB	45:PL:397:TRP:HH2	2.30	0.45
45:PJ:121:ARG:HH21	45:PJ:158:GLU:CD	2.18	0.45
45:PJ:134:GLN:HA	45:PJ:165:GLU:CB	2.36	0.45
45:PJ:325:GLU:HG3	45:PJ:328:GLU:OE2	2.17	0.45
44:PK:171:ILE:HG12	44:PK:204:LEU:CB	2.47	0.45
44:PK:319:TYR:HB2	44:PK:355:ILE:HA	1.98	0.45
45:PL:203:ASP:OD2	45:PL:301:CYS:HA	2.17	0.45
45:PL:221:THR:HG22	45:PL:224:ASP:CG	2.37	0.45
45:PN:187:LEU:HD11	45:PN:408:PHE:HE1	1.78	0.45
45:PN:405:GLU:OE1	45:PN:405:GLU:N	2.50	0.45
44:QC:201:ALA:O	44:QC:267:PHE:HA	2.17	0.45
45:QD:143:THR:HG22	48:QD:501:GDP:O2B	2.16	0.45
44:QE:211:ASP:O	44:QE:215:ARG:HG3	2.17	0.45
44:QE:349:THR:O	45:QF:179:VAL:HA	2.17	0.45
44:QE:362:VAL:HG13	44:QE:362:VAL:O	2.16	0.45
45:QH:265:PHE:H	45:QH:370:ASN:ND2	2.14	0.45
45:QH:417:ASP:O	45:QH:421:GLU:N	2.42	0.45
44:QI:200:VAL:CG2	44:QI:256:GLN:HB3	2.47	0.45
45:QJ:86:ARG:NH1	45:RJ:281:TYR:HB2	2.31	0.45
45:QJ:146:GLY:O	45:QJ:150:LEU:HG	2.17	0.45
45:QJ:170:VAL:HG23	45:QJ:171:PRO:HD2	1.97	0.45
45:QJ:337:ASN:O	45:QJ:341:PHE:HD2	2.00	0.45
44:QK:217:LEU:HD23	44:QK:217:LEU:HA	1.82	0.45
45:QL:260:PHE:HE1	44:QM:403:ALA:HB2	1.81	0.45
45:QL:267:MET:N	45:QL:267:MET:SD	2.88	0.45
44:QM:107:HIS:CE1	44:QM:152:LEU:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:77:ARG:O	45:QN:82:GLY:HA3	2.16	0.45
44:RA:70:LEU:HD13	44:RA:110:ILE:HD12	1.98	0.45
44:RA:174:SER:OG	44:RA:207:GLU:HB2	2.16	0.45
44:RA:188:ILE:HG22	44:RA:421:ALA:CB	2.46	0.45
44:RA:422:ARG:HH12	44:RA:426:ALA:HB2	1.82	0.45
45:RD:52:ASN:HD21	45:RD:62:ARG:CB	2.26	0.45
45:RD:173:PRO:HD3	45:RD:380:ARG:HH11	1.82	0.45
45:RD:181:GLU:O	45:RD:185:ALA:HB2	2.16	0.45
44:RE:252:ILE:HA	44:RE:255:PHE:CE2	2.52	0.45
45:RF:36:TYR:CE1	45:RF:38:GLY:HA3	2.51	0.45
45:RF:261:PRO:HB3	44:RG:406:HIS:HD2	1.82	0.45
44:RG:117:LEU:HD23	44:RG:117:LEU:HA	1.80	0.45
45:RJ:291:GLN:NE2	45:RJ:292:GLN:HB2	2.32	0.45
44:RK:425:LEU:O	44:RK:429:GLU:HG3	2.17	0.45
45:RL:173:PRO:CG	45:RL:380:ARG:HD3	2.47	0.45
44:RM:104:ALA:H	44:RM:408:TYR:HE1	1.63	0.45
44:SA:89:PRO:CG	44:TA:280:LYS:HD2	2.46	0.45
44:SA:191:THR:O	44:SA:195:LEU:N	2.49	0.45
44:SA:214:ARG:HA	44:SA:219:ILE:H	1.82	0.45
44:SA:348:PRO:HG2	45:SB:384:GLN:HB3	1.98	0.45
45:SB:25:SER:O	45:SB:28:HIS:HB3	2.17	0.45
45:SB:166:THR:OG1	45:SB:198:GLU:O	2.23	0.45
45:SB:317:PHE:CD1	45:SB:365:VAL:HG11	2.52	0.45
45:SB:344:TRP:CZ3	45:SB:345:ILE:HB	2.52	0.45
44:SC:270:SER:N	44:SC:301:MET:HE1	2.32	0.45
45:SD:248:SER:OG	45:SD:248:SER:O	2.35	0.45
45:SD:380:ARG:O	45:SD:384:GLN:HG3	2.16	0.45
44:SE:2:ARG:NH2	44:SE:48:ALA:HB1	2.32	0.45
44:SE:105:ARG:CD	44:SE:411:GLU:HB3	2.46	0.45
44:SE:260:VAL:HG12	44:SE:262:TYR:O	2.17	0.45
44:SE:296:PHE:HE1	44:SE:377:MET:HE3	1.81	0.45
45:SF:287:PRO:HB3	45:SF:329:GLN:HE22	1.82	0.45
45:SF:385:PHE:CE2	45:SF:412:GLU:HB2	2.48	0.45
44:SG:11:GLN:HB3	46:SG:501:GTP:O3A	2.17	0.45
44:SI:4:VAL:HG12	44:SI:52:PHE:CE1	2.51	0.45
44:SI:242:LEU:HD11	44:SI:252:ILE:CG1	2.47	0.45
45:SJ:286:VAL:O	45:SJ:289:LEU:N	2.47	0.45
45:SL:418:LEU:O	45:SL:422:TYR:HB2	2.16	0.45
44:SM:212:ILE:HG21	44:SM:275:ILE:CD1	2.45	0.45
45:SN:100:ASN:HB3	45:SN:103:LYS:NZ	2.32	0.45
44:TC:208:ALA:HB2	44:TC:303:ALA:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:22:GLU:O	44:TE:26:LEU:HD23	2.16	0.45
45:TF:69:GLU:OE2	45:TF:72:THR:HG22	2.17	0.45
45:TF:289:LEU:HD11	45:TF:363:MET:HG3	1.99	0.45
44:TI:2:ARG:HD3	44:TI:242:LEU:CD2	2.43	0.45
45:TJ:317:PHE:CE1	45:TJ:326:VAL:HG13	2.52	0.45
44:TM:65:ALA:HB3	44:TM:87:PHE:CE1	2.52	0.45
45:TN:372:THR:O	45:TN:372:THR:HG22	2.16	0.45
44:UA:137:VAL:CG1	44:UA:168:GLY:HA2	2.46	0.45
44:UA:274:PRO:CG	44:UA:291:ILE:HG21	2.34	0.45
44:UA:319:TYR:HB2	44:UA:355:ILE:HA	1.98	0.45
44:UC:141:VAL:CG1	44:UC:172:TYR:HD1	2.25	0.45
44:UC:210:TYR:O	44:UC:213:CYS:HB2	2.17	0.45
44:UC:253:THR:OG1	45:UD:103:LYS:NZ	2.50	0.45
45:UD:253:LEU:HD21	45:UD:316:LEU:HD21	1.97	0.45
45:UD:309:ARG:HG3	45:UD:426:GLN:HG3	1.98	0.45
44:UE:18:ASN:O	44:UE:22:GLU:OE1	2.34	0.45
44:UE:138:PHE:HE2	44:UE:235:ILE:HD11	1.82	0.45
44:UE:251:ASP:H	44:UE:254:GLU:HB2	1.81	0.45
44:UE:346:TRP:CZ3	44:UE:347:CYS:HB2	2.51	0.45
45:UF:247:ASN:H	44:UG:11:GLN:HE22	1.65	0.45
44:UG:3:GLU:HG3	44:UG:129:CYS:SG	2.56	0.45
44:UG:8:HIS:CE1	44:UG:21:TRP:HE1	2.34	0.45
44:UG:108:TYR:CG	44:UG:413:MET:HE3	2.52	0.45
44:UG:362:VAL:HG21	44:UG:369:ALA:HA	1.99	0.45
44:UG:412:GLY:O	44:UG:413:MET:HE2	2.16	0.45
45:UH:19:LYS:HG2	45:UH:227:HIS:HA	1.99	0.45
45:UH:143:THR:HG23	48:UH:501:GDP:O1B	2.16	0.45
45:UH:267:MET:O	45:UH:368:VAL:HG13	2.16	0.45
45:UJ:55:THR:HG23	45:VJ:284:LEU:H	1.81	0.45
45:UJ:116:VAL:O	45:UJ:120:VAL:N	2.36	0.45
44:UK:31:GLN:HB3	44:UK:32:PRO:HD2	1.98	0.45
44:UK:112:LYS:HG3	44:UK:113:GLU:N	2.31	0.45
44:UK:258:ASN:ND2	44:UK:352:LYS:HD3	2.32	0.45
45:UL:143:THR:HG22	48:UL:501:GDP:O2B	2.17	0.45
45:UL:161:ASP:N	45:UL:161:ASP:OD1	2.48	0.45
45:UL:296:ALA:HA	45:UL:305:PRO:HG3	1.98	0.45
44:UM:276:ILE:CD1	44:UM:281:ALA:HA	2.46	0.45
45:UN:21:TRP:CH2	45:UN:61:PRO:HB3	2.52	0.45
45:UN:114:ASP:OD1	45:UN:115:SER:N	2.50	0.45
45:UN:358:PRO:HG2	45:UN:361:LEU:HB2	1.99	0.45
44:VA:102:ASN:HB3	44:VA:105:ARG:CB	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:106:GLY:O	44:VA:148:GLY:HA3	2.17	0.45
44:VA:205:ASP:CG	44:VA:303:ALA:HA	2.36	0.45
44:VA:210:TYR:CE1	44:VA:227:LEU:HD21	2.52	0.45
44:VA:386:GLU:O	44:VA:390:ARG:HG2	2.17	0.45
45:VB:113:ILE:O	45:VB:116:VAL:HG12	2.17	0.45
45:VB:250:LEU:O	45:VB:253:LEU:HB2	2.17	0.45
44:VC:2:ARG:HB2	44:VC:133:GLN:HG3	1.98	0.45
44:VC:352:LYS:HA	45:VF:177:ASP:O	2.16	0.45
44:VC:389:SER:HG	44:VC:390:ARG:N	2.13	0.45
45:VD:1:MET:SD	45:VD:2:ARG:HD3	2.57	0.45
45:VD:165:GLU:OE2	45:VD:250:LEU:HD22	2.16	0.45
45:VD:205:GLU:HA	45:VD:208:TYR:HD2	1.81	0.45
45:VD:318:ARG:HD3	45:VD:364:ALA:HB3	1.98	0.45
44:VE:71:GLU:CG	44:VE:98:ASP:HB2	2.47	0.45
44:VE:113:GLU:O	44:VE:114:ILE:HD13	2.17	0.45
45:VF:60:VAL:HG23	45:VF:84:LEU:O	2.17	0.45
44:VG:254:GLU:HB3	44:VG:258:ASN:ND2	2.32	0.45
44:VG:399:TYR:O	44:VG:399:TYR:CD1	2.69	0.45
44:VI:191:THR:O	44:VI:195:LEU:HB2	2.16	0.45
44:VI:250:VAL:HG21	44:VI:318:MET:SD	2.56	0.45
44:VK:188:ILE:HD12	44:VK:425:LEU:CD1	2.46	0.45
44:VK:225:THR:O	44:VK:229:ARG:HG3	2.16	0.45
44:VM:3:GLU:OE2	44:VM:130:THR:HG22	2.15	0.45
45:VN:183:TYR:HE2	45:VN:394:PHE:CB	2.24	0.45
45:WB:318:ARG:CD	45:WB:358:PRO:HD3	2.41	0.45
44:WC:145:THR:O	44:WC:148:GLY:N	2.50	0.45
44:WC:209:ILE:HD11	44:WC:302:MET:HE1	1.98	0.45
44:WE:9:VAL:HG13	44:WE:146:GLY:HA2	1.98	0.45
44:WG:349:THR:HG21	45:WJ:176:SER:HB2	1.99	0.45
45:WH:25:SER:HB3	45:WH:30:ILE:O	2.16	0.45
45:WH:173:PRO:CG	45:WH:380:ARG:HD3	2.47	0.45
44:WI:23:LEU:CD2	44:WI:236:SER:HB2	2.47	0.45
44:WI:71:GLU:OE2	45:WJ:2:ARG:NH2	2.50	0.45
44:WI:93:ILE:HD12	44:WI:93:ILE:H	1.82	0.45
45:WL:133:PHE:HB2	45:WL:164:MET:HE1	1.98	0.45
45:WL:397:TRP:O	45:WL:400:GLY:N	2.45	0.45
44:WM:9:VAL:HG21	44:WM:150:GLY:CA	2.46	0.45
44:WM:183:GLU:CG	44:WM:184:PRO:HD3	2.46	0.45
44:WM:224:TYR:H	45:WN:323:THR:CG2	2.30	0.45
44:WM:268:MET:N	44:WM:268:MET:SD	2.90	0.45
2:0A:143:HIS:HB3	44:AA:32:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0A:150:LEU:HB2	35:7R:78:ILE:HD11	1.99	0.45
11:0Q:17:ILE:HG21	45:WB:125:GLU:OE1	2.15	0.45
8:1G:86:LEU:HG	45:JB:227:HIS:NE2	2.32	0.45
20:1J:279:ILE:O	45:IL:361:LEU:HD23	2.16	0.45
21:1K:91:HIS:NE2	40:6F:54:TYR:HB2	2.31	0.45
21:1K:183:TYR:HB3	45:GD:362:LYS:HD2	1.97	0.45
24:1O:267:ALA:HB1	44:UA:370:LYS:NZ	2.32	0.45
31:2H:177:ASN:HA	45:AD:221:THR:CG2	2.47	0.45
2:3A:80:LYS:HD2	35:6R:73:PRO:O	2.16	0.45
2:3A:125:LEU:HB2	45:AN:276:ARG:NH2	2.31	0.45
11:3Q:30:ARG:NH2	44:AG:397:LEU:HD13	2.32	0.45
26:3R:505:TYR:CD1	44:EK:39:ASP:HB3	2.51	0.45
15:3V:24:ARG:HG3	44:MA:430:LYS:HG3	1.98	0.45
34:4F:9:GLN:OE1	44:GI:89:PRO:HB3	2.16	0.45
16:4X:30:GLU:OE1	45:LL:276:ARG:HD3	2.15	0.45
37:5C:126:ILE:HG22	45:NL:227:HIS:ND1	2.32	0.45
37:5D:45:TYR:HE1	45:KN:392:LYS:HD2	1.81	0.45
38:5G:202:LYS:HE2	38:5G:203:PHE:CE2	2.52	0.45
11:5Q:93:VAL:HG23	11:5Q:150:GLU:O	2.16	0.45
35:5R:12:LEU:O	45:LJ:227:HIS:NE2	2.49	0.45
35:5R:99:PHE:CE1	35:5R:114:ARG:HD3	2.52	0.45
35:5R:262:TRP:CZ2	35:5R:345:LYS:HD2	2.52	0.45
36:5S:155:HIS:N	36:5S:156:PRO:HD2	2.32	0.45
41:6G:123:LEU:HB3	41:6G:127:ILE:HD11	1.98	0.45
41:6G:181:GLY:HA2	44:VE:338:LYS:CD	2.46	0.45
11:6Q:70:GLY:HA3	11:6Q:150:GLU:OE1	2.16	0.45
11:6Q:87:TYR:CE2	11:6Q:89:PHE:HD1	2.34	0.45
35:6R:300:PHE:CZ	45:CN:77:ARG:CD	2.87	0.45
42:8L:366:UNK:HA	44:SC:370:LYS:HZ3	1.81	0.45
42:8L:395:UNK:O	42:8L:399:UNK:N	2.49	0.45
43:8R:290:UNK:O	43:8R:294:UNK:N	2.50	0.45
44:AA:75:ILE:HD12	44:AA:75:ILE:H	1.82	0.45
44:AA:428:LEU:HG	44:AA:432:TYR:HE2	1.81	0.45
45:AB:385:PHE:HZ	45:AB:408:PHE:CD1	2.35	0.45
44:AC:32:PRO:HB3	44:AC:83:TYR:CE1	2.52	0.45
44:AE:141:VAL:HG21	44:AE:172:TYR:CE1	2.52	0.45
44:AE:221:ARG:CZ	45:AF:322:SER:H	2.30	0.45
45:AF:377:MET:HA	45:AF:380:ARG:HG2	1.98	0.45
44:AG:258:ASN:HB3	45:AJ:179:VAL:CG2	2.46	0.45
44:AG:269:LEU:HB2	44:AG:303:ALA:CB	2.46	0.45
44:AG:324:VAL:HG23	44:AG:326:LYS:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:170:VAL:HG22	45:AH:203:ASP:OD1	2.17	0.45
44:AI:135:PHE:CE1	44:AI:157:LEU:HD23	2.52	0.45
44:AI:262:TYR:HE2	44:AI:435:VAL:CG2	2.30	0.45
45:AJ:192:LEU:HD21	45:AJ:199:CYS:SG	2.56	0.45
44:AK:51:THR:CG2	44:AK:243:ARG:HG2	2.30	0.45
44:AK:178:SER:CB	45:AL:347:ASN:HB3	2.46	0.45
44:AK:417:GLU:HA	44:AK:420:GLU:OE2	2.17	0.45
45:AN:92:PHE:HD2	45:AN:93:GLY:O	1.99	0.45
44:BA:105:ARG:O	44:BA:110:ILE:HG12	2.16	0.45
44:BC:141:VAL:CG1	44:BC:173:PRO:HD3	2.45	0.45
44:BC:224:TYR:CE2	45:BD:323:THR:HG21	2.52	0.45
45:BD:239:CYS:SG	45:BD:248:SER:N	2.69	0.45
44:BE:31:GLN:HB3	44:BE:32:PRO:CD	2.46	0.45
44:BI:36:MET:SD	44:BI:37:PRO:HD2	2.57	0.45
44:BI:287:SER:O	44:BI:290:GLU:HG2	2.16	0.45
45:BJ:72:THR:HG23	45:BJ:73:MET:N	2.32	0.45
44:BK:265:ILE:HD13	44:BK:313:MET:HE1	1.99	0.45
44:BK:407:TRP:HH2	45:BL:254:ALA:HB1	1.81	0.45
45:BL:180:VAL:HG22	45:BL:180:VAL:O	2.16	0.45
44:BM:156:ARG:O	44:BM:160:ASP:N	2.46	0.45
44:BM:198:THR:HG22	44:BM:199:ASP:N	2.32	0.45
44:BM:319:TYR:HB2	44:BM:354:GLY:O	2.17	0.45
44:CA:51:THR:HG21	44:CA:242:LEU:CD1	2.47	0.45
44:CA:234:VAL:HG23	44:CA:235:ILE:N	2.31	0.45
44:CA:261:PRO:CA	45:CB:393:ALA:HB1	2.47	0.45
45:CB:68:LEU:HD23	45:CB:97:ALA:N	2.31	0.45
45:CF:206:ALA:HB3	45:CF:300:MET:O	2.17	0.45
45:CF:348:ASN:HA	44:CG:181:VAL:HG23	1.99	0.45
44:CG:46:ASP:HA	44:CG:49:PHE:CE2	2.52	0.45
44:CG:295:ALA:HB1	44:CG:377:MET:HE1	1.98	0.45
45:CH:16:ILE:HD13	45:CH:226:ASN:OD1	2.16	0.45
45:CH:266:PHE:CE1	45:CH:370:ASN:HB2	2.51	0.45
45:CH:311:LEU:O	45:CH:312:THR:OG1	2.29	0.45
44:CK:10:GLY:HA2	44:CK:69:ASP:OD1	2.16	0.45
45:CL:248:SER:CB	45:CL:252:LYS:HD2	2.46	0.45
45:CL:257:LEU:HA	45:CL:312:THR:CG2	2.46	0.45
45:CL:350:LYS:HD2	44:CM:181:VAL:CG1	2.47	0.45
44:CM:76:ASP:O	44:CM:79:ARG:HB2	2.16	0.45
44:CM:258:ASN:ND2	44:CM:352:LYS:HD3	2.31	0.45
44:CM:259:LEU:HD13	44:CM:378:ILE:CG2	2.43	0.45
45:CN:4:ILE:H	45:CN:49:VAL:HG13	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:216:ASN:CG	44:DA:275:ILE:HB	2.37	0.45
44:DA:334:THR:O	44:DA:338:LYS:HG2	2.16	0.45
45:DB:131:GLN:O	45:DB:131:GLN:HG3	2.16	0.45
45:DB:178:THR:HG22	45:DB:180:VAL:HG12	1.98	0.45
44:DC:256:GLN:HG2	44:DC:260:VAL:HG21	1.98	0.45
45:DD:315:ALA:C	45:DD:316:LEU:HD12	2.37	0.45
44:DE:246:GLY:HA3	44:DE:355:ILE:O	2.17	0.45
44:DE:311:LYS:N	44:DE:382:THR:OG1	2.48	0.45
45:DF:60:VAL:HG21	45:EF:281:TYR:HD1	1.82	0.45
44:DG:337:THR:O	44:DG:339:ARG:NH1	2.46	0.45
45:DH:153:SER:HA	45:DH:195:ASN:HD22	1.81	0.45
45:DH:266:PHE:HB3	45:DH:369:GLY:O	2.16	0.45
45:DJ:372:THR:HA	45:DJ:422:TYR:HH	1.82	0.45
45:EB:130:LEU:CG	45:EB:162:ARG:HD2	2.47	0.45
45:EB:271:ALA:HB1	45:EB:272:PRO:HA	1.99	0.45
45:EB:312:THR:O	45:EB:370:ASN:N	2.28	0.45
45:EB:399:THR:HA	45:EB:403:MET:CG	2.47	0.45
44:EC:147:SER:HB2	44:EC:186:ASN:HB2	1.99	0.45
44:EC:184:PRO:HG2	44:EC:398:MET:HE1	1.98	0.45
45:ED:70:PRO:HG3	45:ED:92:PHE:HE2	1.81	0.45
45:ED:309:ARG:NH2	45:ED:426:GLN:O	2.41	0.45
45:EF:251:ARG:O	45:EF:254:ALA:HB3	2.17	0.45
44:EG:13:GLY:CA	44:EG:16:VAL:HG22	2.44	0.45
45:EH:311:LEU:HD12	45:EH:312:THR:N	2.32	0.45
44:EI:248:LEU:HD11	48:EJ:501:GDP:O1A	2.17	0.45
44:EI:268:MET:CB	44:EI:380:ASN:OD1	2.64	0.45
45:EL:133:PHE:O	45:EL:164:MET:HA	2.17	0.45
45:EL:207:LEU:CB	45:EL:225:LEU:HD22	2.43	0.45
44:EM:248:LEU:HD12	45:EN:11:GLN:OE1	2.17	0.45
45:EN:2:ARG:H	45:EN:129:CYS:CB	2.25	0.45
45:EN:86:ARG:HH21	45:EN:87:PRO:CD	2.28	0.45
44:FA:14:ILE:HG12	44:FA:75:ILE:CD1	2.41	0.45
44:FA:183:GLU:CG	44:FA:184:PRO:HD3	2.46	0.45
45:FB:45:GLU:O	45:FB:46:ARG:HD3	2.17	0.45
45:FB:150:LEU:O	45:FB:154:LYS:N	2.27	0.45
44:FC:14:ILE:CD1	44:FC:75:ILE:HD11	2.47	0.45
44:FC:159:VAL:O	44:FC:159:VAL:HG22	2.17	0.45
44:FC:223:THR:HG22	44:FC:225:THR:OG1	2.17	0.45
44:FC:322:ASP:OD2	44:FC:372:MET:HE3	2.17	0.45
44:FC:326:LYS:CG	45:FF:212:PHE:HE2	2.25	0.45
45:FD:16:ILE:HD12	45:FD:16:ILE:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:137:HIS:HE1	45:FD:139:LEU:CD1	2.29	0.45
45:FD:272:PRO:HA	45:FD:292:GLN:OE1	2.17	0.45
44:FE:319:TYR:HA	44:FE:375:VAL:HA	1.98	0.45
45:FF:295:ASP:OD1	45:FF:296:ALA:N	2.49	0.45
45:FF:328:GLU:HG3	45:FF:329:GLN:OE1	2.17	0.45
44:FG:319:TYR:HE1	44:FG:375:VAL:HG13	1.81	0.45
45:FH:236:VAL:O	45:FH:236:VAL:HG22	2.17	0.45
44:FI:71:GLU:CD	44:FI:73:THR:H	2.15	0.45
44:FI:288:VAL:HA	44:FI:291:ILE:CD1	2.47	0.45
45:FJ:221:THR:O	45:FJ:224:ASP:HB2	2.17	0.45
45:FJ:252:LYS:HD3	45:FJ:350:LYS:NZ	2.32	0.45
44:FK:326:LYS:HE3	45:FN:220:PRO:O	2.16	0.45
44:FM:96:LYS:HB3	45:FN:1:MET:CE	2.47	0.45
45:FN:64:ILE:HG21	45:FN:119:VAL:HG11	1.99	0.45
45:FN:83:GLN:OE1	45:FN:83:GLN:HA	2.16	0.45
44:GA:72:PRO:O	44:GA:75:ILE:HB	2.16	0.45
44:GA:312:TYR:CD2	44:GA:341:ILE:CD1	2.99	0.45
45:GB:4:ILE:HG22	45:GB:131:GLN:HB3	1.99	0.45
45:GB:42:LEU:HA	45:GB:45:GLU:CG	2.47	0.45
45:GB:116:VAL:HA	45:GB:119:VAL:HG12	1.99	0.45
44:GC:288:VAL:CG2	44:GC:327:ASP:HB3	2.35	0.45
44:GC:408:TYR:HA	44:GC:413:MET:CE	2.47	0.45
45:GD:151:LEU:CD2	45:GD:155:VAL:HG21	2.46	0.45
45:GD:226:ASN:HA	45:GD:229:VAL:HG12	1.98	0.45
45:GD:324:LYS:O	45:GD:328:GLU:HG2	2.17	0.45
44:GE:3:GLU:HA	44:GE:51:THR:O	2.16	0.45
44:GE:371:VAL:HG23	44:GE:373:ARG:O	2.17	0.45
45:GF:92:PHE:C	45:GF:112:LEU:HD11	2.37	0.45
44:GG:210:TYR:CD1	44:GG:227:LEU:HD21	2.51	0.45
45:GH:150:LEU:HD21	45:GH:154:LYS:HE2	1.99	0.45
45:GH:241:ARG:O	45:GH:242:PHE:CD1	2.70	0.45
45:GJ:36:TYR:CZ	45:GJ:44:LEU:HD11	2.51	0.45
45:GJ:87:PRO:HD2	45:HJ:281:TYR:CD2	2.52	0.45
45:GJ:186:THR:HG23	45:GJ:187:LEU:HD23	1.99	0.45
45:GJ:310:TYR:CE1	45:GJ:371:SER:HB2	2.52	0.45
44:GK:159:VAL:O	44:GK:159:VAL:HG22	2.17	0.45
44:GK:346:TRP:CG	45:GN:391:ARG:HG3	2.52	0.45
44:GK:348:PRO:HD2	45:GN:387:ALA:HB1	1.99	0.45
45:GL:22:GLU:HA	45:GL:81:PHE:CD2	2.50	0.45
45:GL:321:MET:HE3	45:GL:363:MET:SD	2.56	0.45
44:GM:187:SER:HG	44:GM:188:ILE:N	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:294:SER:HA	44:GM:297:GLU:CG	2.35	0.45
45:GN:320:ARG:CG	45:GN:355:ASP:HB3	2.38	0.45
44:HA:166:LYS:C	44:HA:167:LEU:HD22	2.37	0.45
44:HA:420:GLU:HA	44:HA:423:GLU:HG2	1.99	0.45
45:HB:72:THR:HG23	45:HB:73:MET:N	2.31	0.45
45:HD:258:ILE:HG13	45:HD:266:PHE:HZ	1.80	0.45
45:HD:290:THR:HG23	45:HD:291:GLN:N	2.32	0.45
44:HE:332:ILE:O	44:HE:335:ILE:HG22	2.16	0.45
45:HF:8:GLN:O	45:HF:66:MET:HG2	2.16	0.45
45:HF:251:ARG:O	45:HF:255:VAL:HG23	2.16	0.45
44:HG:202:VAL:CG1	44:HG:270:SER:HB2	2.46	0.45
45:HH:350:LYS:HG2	45:HH:351:SER:N	2.31	0.45
44:HI:72:PRO:HG2	45:HJ:1:MET:CE	2.47	0.45
44:HI:141:VAL:CG1	44:HI:142:GLY:H	2.30	0.45
44:HI:393:HIS:O	44:HI:396:ASP:HB2	2.16	0.45
45:HJ:175:VAL:O	45:HJ:175:VAL:HG23	2.17	0.45
45:HJ:193:VAL:CG2	45:HJ:264:HIS:HE1	2.27	0.45
44:HK:274:PRO:CD	44:HK:374:ALA:HA	2.46	0.45
45:HL:4:ILE:HD13	45:HL:250:LEU:HD11	1.98	0.45
44:HM:202:VAL:HG22	44:HM:268:MET:HG2	1.97	0.45
44:HM:213:CYS:CA	44:HM:217:LEU:HB2	2.45	0.45
44:HM:362:VAL:HG13	44:HM:362:VAL:O	2.16	0.45
45:HN:192:LEU:HD11	45:HN:196:ALA:HB2	1.98	0.45
44:IA:101:ASN:OD1	45:IB:252:LYS:HG3	2.17	0.45
44:IA:178:SER:HB2	44:IA:183:GLU:OE2	2.17	0.45
44:IA:194:LEU:O	44:IA:198:THR:N	2.50	0.45
45:IB:180:VAL:HG22	45:IB:183:TYR:HB2	1.98	0.45
44:IC:85:GLN:O	45:JD:281:TYR:OH	2.35	0.45
45:ID:180:VAL:O	45:ID:180:VAL:HG22	2.16	0.45
45:ID:201:VAL:HG23	45:ID:301:CYS:SG	2.57	0.45
45:IF:130:LEU:HD12	45:IF:131:GLN:H	1.81	0.45
45:IH:86:ARG:HE	45:IH:87:PRO:CD	2.30	0.45
44:II:139:ASN:O	44:II:139:ASN:OD1	2.35	0.45
44:II:237:SER:CA	44:II:320:ARG:HH22	2.24	0.45
45:IJ:245:GLN:HB3	45:IJ:246:LEU:HD12	1.97	0.45
45:IJ:259:PRO:HG2	45:IJ:311:LEU:CG	2.47	0.45
44:IM:22:GLU:HA	44:IM:25:CYS:CB	2.35	0.45
44:IM:93:ILE:HG12	44:IM:117:LEU:HD23	1.99	0.45
44:IM:150:GLY:O	44:IM:154:LEU:HG	2.17	0.45
44:IM:421:ALA:HA	44:IM:424:ASP:HB2	1.99	0.45
45:IN:119:VAL:HA	45:IN:122:LYS:HE2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:134:GLN:HG2	45:IN:165:GLU:HB3	1.98	0.45
44:JA:181:VAL:HG22	45:JB:347:ASN:O	2.16	0.45
44:JA:320:ARG:HG3	44:JA:360:PRO:HD3	1.99	0.45
45:JB:302:ALA:HB1	45:JB:380:ARG:HH12	1.81	0.45
44:JE:237:SER:HA	44:JE:320:ARG:NH1	2.31	0.45
45:JF:66:MET:HG3	45:JF:91:VAL:CG2	2.47	0.45
44:JG:202:VAL:HA	44:JG:268:MET:O	2.16	0.45
45:JH:26:ASP:O	45:JH:29:GLY:N	2.49	0.45
45:JH:149:THR:O	45:JH:152:ILE:HB	2.16	0.45
45:JH:170:VAL:HG13	45:JH:377:MET:HE1	1.97	0.45
45:JH:178:THR:CG2	45:JH:180:VAL:HG12	2.47	0.45
44:JI:260:VAL:HG22	45:JL:397:TRP:HZ2	1.82	0.45
45:JJ:95:THR:HG21	45:JJ:108:GLU:CD	2.36	0.45
45:JJ:200:MET:HE2	45:JJ:268:ILE:HG21	1.99	0.45
44:JM:14:ILE:HD13	44:JM:75:ILE:HG12	1.98	0.45
44:JM:74:VAL:HG13	44:JM:75:ILE:N	2.32	0.45
44:JM:198:THR:HG22	44:JM:199:ASP:N	2.31	0.45
45:JN:170:VAL:HG23	45:JN:171:PRO:HD2	1.98	0.45
44:KA:209:ILE:CG2	44:KA:227:LEU:HD22	2.47	0.45
44:KA:230:LEU:O	44:KA:234:VAL:HG23	2.17	0.45
44:KC:7:ILE:CD1	44:KC:66:VAL:HG12	2.47	0.45
45:KD:9:GLY:O	45:KD:13:GLY:HA3	2.17	0.45
44:KE:1:MET:SD	44:KE:2:ARG:HB3	2.57	0.45
44:KE:220:GLU:CB	44:KE:221:ARG:HH11	2.30	0.45
44:KE:275:ILE:CD1	44:KE:368:LEU:HD21	2.47	0.45
45:KF:58:ARG:HD2	45:LF:280:GLN:HE22	1.81	0.45
44:KG:6:SER:C	44:KG:7:ILE:HD13	2.37	0.45
44:KG:21:TRP:CH2	44:KG:63:PRO:HB3	2.51	0.45
44:KG:89:PRO:HD3	44:LG:283:HIS:NE2	2.31	0.45
45:KH:7:ILE:HB	45:KH:135:ILE:HD13	1.97	0.45
45:KH:184:ASN:OD1	45:KH:185:ALA:N	2.50	0.45
44:KI:387:VAL:O	44:KI:391:LEU:HD23	2.16	0.45
45:KJ:21:TRP:CZ3	45:KJ:61:PRO:HB3	2.51	0.45
45:KJ:341:PHE:CB	45:KJ:348:ASN:HD21	2.27	0.45
45:KJ:427:ASP:C	45:KJ:427:ASP:OD1	2.55	0.45
44:KK:119:LEU:HD12	44:KK:160:ASP:OD2	2.16	0.45
45:KL:6:HIS:CE1	45:KL:233:MET:HE1	2.52	0.45
44:KM:22:GLU:HA	44:KM:25:CYS:HB2	1.99	0.45
44:KM:203:MET:O	44:KM:204:LEU:HD23	2.16	0.45
44:KM:217:LEU:HD13	44:KM:367:ASP:HB3	1.99	0.45
45:KN:12:CYS:O	45:KN:16:ILE:CD1	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KN:355:ASP:O	45:KN:356:ILE:HD13	2.16	0.45
44:LA:338:LYS:HA	44:LA:338:LYS:CE	2.33	0.45
44:LA:377:MET:HE3	44:LA:379:SER:CB	2.38	0.45
44:LC:104:ALA:H	44:LC:408:TYR:HE2	1.64	0.45
45:LD:116:VAL:HA	45:LD:119:VAL:HG12	1.98	0.45
45:LD:130:LEU:HD11	45:LD:133:PHE:CE1	2.51	0.45
45:LD:256:ASN:ND2	45:LD:350:LYS:HB2	2.28	0.45
45:LD:286:VAL:HG23	45:LD:287:PRO:CD	2.47	0.45
45:LD:315:ALA:O	45:LD:316:LEU:HD22	2.16	0.45
45:LD:392:LYS:CA	45:LD:395:LEU:HD12	2.46	0.45
45:LD:405:GLU:OE2	45:LD:406:MET:HE3	2.17	0.45
44:LE:93:ILE:HD11	44:LE:117:LEU:HB3	1.98	0.45
45:LF:105:HIS:CD2	45:LF:150:LEU:HD12	2.44	0.45
44:LG:126:ALA:O	44:LG:129:CYS:HB2	2.17	0.45
44:LG:221:ARG:CD	45:LH:322:SER:HB3	2.47	0.45
45:LH:152:ILE:HA	45:LH:155:VAL:HG22	1.99	0.45
44:LI:172:TYR:HB2	44:LI:203:MET:CE	2.45	0.45
45:LJ:286:VAL:N	45:LJ:287:PRO:CD	2.80	0.45
45:LL:189:VAL:HG21	45:LL:378:PHE:CE1	2.52	0.45
45:LL:330:MET:HA	45:LL:330:MET:CE	2.43	0.45
45:LL:352:SER:C	45:LL:353:ILE:HD12	2.37	0.45
44:LM:140:SER:OG	46:LM:501:GTP:O2B	2.33	0.45
44:LM:181:VAL:HG22	45:LN:256:ASN:HB3	1.98	0.45
44:LM:422:ARG:O	44:LM:426:ALA:N	2.36	0.45
45:LN:274:THR:HG22	45:LN:275:SER:N	2.31	0.45
45:MB:39:ASP:H	45:MB:43:GLN:CD	2.20	0.45
45:MB:62:ARG:HG3	45:MB:123:GLU:CG	2.47	0.45
45:MB:314:SER:HB2	45:MB:350:LYS:HB3	1.99	0.45
44:ME:6:SER:C	44:ME:7:ILE:HD13	2.36	0.45
44:ME:185:TYR:HA	44:ME:188:ILE:CG1	2.47	0.45
45:MF:398:TYR:HB3	45:MF:403:MET:HE3	1.98	0.45
44:MG:181:VAL:HG22	44:MG:181:VAL:O	2.17	0.45
44:MI:210:TYR:CD2	45:MJ:324:LYS:HG3	2.46	0.45
45:MJ:36:TYR:CZ	45:MJ:38:GLY:HA3	2.52	0.45
45:MJ:145:SER:O	45:MJ:149:THR:HB	2.17	0.45
44:MK:288:VAL:O	44:MK:291:ILE:HG12	2.17	0.45
45:ML:193:VAL:HA	45:ML:264:HIS:HE1	1.77	0.45
45:ML:257:LEU:HD21	45:ML:368:VAL:O	2.17	0.45
45:ML:299:MET:HE1	45:ML:367:PHE:CD2	2.52	0.45
44:MM:319:TYR:HB2	44:MM:354:GLY:O	2.17	0.45
45:MN:288:GLU:HA	45:MN:291:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:159:VAL:HG13	44:NA:160:ASP:N	2.32	0.45
44:NA:352:LYS:HA	45:ND:177:ASP:OD1	2.16	0.45
45:NB:22:GLU:HG2	45:NB:81:PHE:CD2	2.51	0.45
44:NC:7:ILE:HD13	44:NC:66:VAL:HG12	1.97	0.45
45:ND:51:TYR:HE1	45:ND:61:PRO:HG3	1.82	0.45
45:ND:86:ARG:NH1	45:OD:281:TYR:HA	2.31	0.45
45:ND:320:ARG:NE	45:ND:355:ASP:O	2.50	0.45
44:NE:90:GLU:CG	44:OE:280:LYS:HD2	2.45	0.45
45:NF:99:ASN:HA	45:NF:142:GLY:HA3	1.97	0.45
45:NF:285:THR:C	45:NF:287:PRO:HD2	2.37	0.45
45:NH:216:LYS:HG2	45:NH:275:SER:HB3	1.97	0.45
45:NH:216:LYS:HZ2	45:NH:277:GLY:H	1.63	0.45
44:NI:3:GLU:HG2	44:NI:64:ARG:HE	1.81	0.45
44:NI:115:VAL:HG22	44:NI:119:LEU:HD23	1.99	0.45
45:NJ:330:MET:CE	45:NJ:349:ILE:CG2	2.95	0.45
44:NK:101:ASN:O	44:NK:408:TYR:OH	2.34	0.45
44:NK:141:VAL:HG23	44:NK:190:SER:CB	2.47	0.45
44:NK:417:GLU:O	44:NK:420:GLU:N	2.50	0.45
45:NL:93:GLY:HA2	45:NL:112:LEU:HD13	1.99	0.45
45:NL:167:PHE:HE1	45:NL:200:MET:CE	2.30	0.45
45:NL:180:VAL:HG12	45:NL:180:VAL:O	2.15	0.45
45:NL:217:LEU:HD22	45:NL:276:ARG:HH21	1.80	0.45
45:NL:341:PHE:HB3	45:NL:348:ASN:HD21	1.80	0.45
45:NL:372:THR:HA	45:NL:422:TYR:CZ	2.50	0.45
44:NM:121:ARG:HH21	44:NM:124:LYS:HB3	1.81	0.45
45:NN:54:ALA:HB3	45:NN:58:ARG:CG	2.45	0.45
45:NN:86:ARG:HG3	45:NN:88:ASP:N	2.31	0.45
45:NN:192:LEU:O	45:NN:196:ALA:HB3	2.17	0.45
45:NN:312:THR:OG1	45:NN:348:ASN:O	2.22	0.45
44:OA:261:PRO:HG2	44:OA:380:ASN:HD21	1.82	0.45
44:OA:348:PRO:HD2	45:OD:388:MET:HE2	1.97	0.45
45:OB:87:PRO:HG3	45:PB:278:SER:HB2	1.99	0.45
44:OC:138:PHE:CD1	44:OC:169:PHE:HB2	2.51	0.45
45:OD:113:ILE:HD11	45:OD:151:LEU:HD22	1.99	0.45
45:OD:180:VAL:HG12	45:OD:180:VAL:O	2.16	0.45
45:OD:309:ARG:HD3	45:OD:426:GLN:O	2.16	0.45
44:OE:174:SER:HB2	44:OE:177:VAL:O	2.17	0.45
44:OE:222:PRO:HD2	45:OF:324:LYS:NZ	2.32	0.45
44:OE:402:ARG:HB3	44:OE:405:VAL:CG2	2.38	0.45
45:OF:122:LYS:HG3	45:OF:123:GLU:N	2.32	0.45
45:OF:134:GLN:HA	45:OF:165:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:313:ALA:HB3	45:OF:349:ILE:CD1	2.47	0.45
44:OG:286:LEU:O	44:OG:373:ARG:HD2	2.17	0.45
45:OH:186:THR:HB	45:OH:381:VAL:HG12	1.99	0.45
44:OI:387:VAL:O	44:OI:391:LEU:HD13	2.17	0.45
45:OJ:65:LEU:HD21	45:OJ:85:PHE:CE2	2.51	0.45
45:OJ:164:MET:H	45:OJ:197:ASP:HB2	1.81	0.45
44:OK:223:THR:O	44:OK:227:LEU:HD12	2.17	0.45
45:OL:64:ILE:HG23	45:OL:89:ASN:O	2.16	0.45
45:OL:318:ARG:CD	45:OL:358:PRO:HD3	2.47	0.45
45:OL:324:LYS:O	45:OL:328:GLU:HG2	2.16	0.45
44:OM:75:ILE:CD1	44:OM:92:LEU:HB3	2.32	0.45
44:OM:100:ALA:HB1	45:ON:252:LYS:N	2.31	0.45
44:OM:208:ALA:HA	44:OM:304:LYS:HZ3	1.80	0.45
44:OM:326:LYS:HG3	44:OM:327:ASP:N	2.32	0.45
45:ON:74:ASP:CB	45:ON:77:ARG:HH21	2.30	0.45
44:PA:115:VAL:HG11	44:PA:152:LEU:HD21	1.99	0.45
44:PA:210:TYR:CD2	45:PB:324:LYS:HE3	2.52	0.45
44:PA:213:CYS:CB	44:PA:217:LEU:HD12	2.46	0.45
44:PA:313:MET:HE2	44:PA:346:TRP:HH2	1.81	0.45
45:PB:31:ASP:HB3	45:PB:32:PRO:CD	2.46	0.45
45:PB:273:LEU:HD12	45:PB:298:ASN:OD1	2.17	0.45
45:PB:317:PHE:HE2	45:PB:326:VAL:HG22	1.81	0.45
44:PC:405:VAL:HG12	44:PC:405:VAL:O	2.16	0.45
45:PD:19:LYS:O	45:PD:22:GLU:HB2	2.16	0.45
44:PE:22:GLU:CA	44:PE:25:CYS:HB2	2.36	0.45
44:PE:181:VAL:HG13	45:PF:256:ASN:OD1	2.16	0.45
44:PE:242:LEU:HD11	44:PE:252:ILE:CG1	2.46	0.45
45:PF:66:MET:C	45:PF:73:MET:HE1	2.37	0.45
44:PG:178:SER:HG	45:PH:347:ASN:CG	2.07	0.45
44:PG:248:LEU:HB3	44:PG:355:ILE:HB	1.98	0.45
45:PH:130:LEU:HD11	45:PH:133:PHE:CE1	2.51	0.45
45:PH:270:PHE:CD2	45:PH:273:LEU:HD21	2.45	0.45
44:PI:407:TRP:CZ3	45:PJ:255:VAL:HG22	2.51	0.45
45:PJ:299:MET:HG3	45:PJ:305:PRO:HG3	1.97	0.45
45:PJ:355:ASP:O	45:PJ:356:ILE:HD13	2.17	0.45
44:PK:381:SER:O	44:PK:384:ILE:HG22	2.16	0.45
45:PL:323:THR:HG22	45:PL:353:ILE:HD13	1.97	0.45
45:PL:323:THR:O	45:PL:326:VAL:HB	2.17	0.45
45:PL:342:VAL:HG22	45:PL:343:GLU:H	1.81	0.45
45:PL:391:ARG:HG3	45:PL:391:ARG:HH11	1.81	0.45
44:PM:56:THR:HG22	44:PM:60:LYS:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:90:GLU:O	44:PM:121:ARG:HD2	2.17	0.45
44:PM:115:VAL:HG11	44:PM:152:LEU:CD2	2.46	0.45
45:PN:203:ASP:OD2	45:PN:301:CYS:HB3	2.16	0.45
44:QA:32:PRO:O	44:QA:86:LEU:HD23	2.16	0.45
45:QB:164:MET:HB2	45:QB:197:ASP:H	1.81	0.45
45:QB:211:CYS:O	45:QB:215:LEU:N	2.49	0.45
44:QC:75:ILE:O	44:QC:78:VAL:HB	2.17	0.45
44:QC:134:GLY:HA3	44:QC:165:SER:OG	2.17	0.45
44:QC:268:MET:HB2	44:QC:380:ASN:CA	2.46	0.45
45:QD:328:GLU:HG3	45:QD:329:GLN:N	2.32	0.45
44:QE:141:VAL:HG23	44:QE:190:SER:OG	2.16	0.45
44:QE:258:ASN:HD22	44:QE:352:LYS:CG	2.29	0.45
44:QE:288:VAL:O	44:QE:292:THR:HG22	2.16	0.45
45:QF:101:TRP:CZ3	45:QF:403:MET:HE1	2.52	0.45
44:QG:25:CYS:SG	44:QG:30:ILE:HB	2.56	0.45
44:QG:63:PRO:CG	44:QG:86:LEU:HG	2.46	0.45
44:QG:207:GLU:OE2	44:QG:304:LYS:HE3	2.17	0.45
44:QG:242:LEU:CD1	44:QG:252:ILE:HB	2.47	0.45
45:QH:113:ILE:HG13	45:QH:116:VAL:HG11	1.98	0.45
45:QH:138:SER:O	45:QH:145:SER:HB3	2.16	0.45
45:QJ:14:ASN:HB3	45:QJ:73:MET:CA	2.47	0.45
44:QK:145:THR:HG22	46:QK:501:GTP:PG	2.56	0.45
44:QK:213:CYS:O	44:QK:217:LEU:N	2.49	0.45
44:QM:1:MET:O	44:QM:131:GLY:HA3	2.17	0.45
44:QM:270:SER:C	44:QM:302:MET:HE3	2.36	0.45
45:QN:287:PRO:O	45:QN:290:THR:HG22	2.17	0.45
45:QN:374:ILE:HD12	45:QN:378:PHE:CZ	2.52	0.45
45:QN:375:GLN:HG3	45:QN:379:LYS:HZ1	1.81	0.45
45:QN:396:HIS:CE1	45:QN:397:TRP:HD1	2.35	0.45
44:RA:401:LYS:HE3	44:RA:401:LYS:HB2	1.73	0.45
45:RB:30:ILE:HD11	45:RB:47:ILE:HD11	1.98	0.45
44:RC:23:LEU:HD21	44:RC:236:SER:HB2	1.98	0.45
44:RC:75:ILE:HD12	44:RC:75:ILE:H	1.81	0.45
44:RC:258:ASN:ND2	44:RC:352:LYS:HD3	2.32	0.45
45:RD:87:PRO:O	45:RD:90:PHE:N	2.49	0.45
45:RD:162:ARG:HA	45:RD:251:ARG:HH12	1.81	0.45
45:RD:242:PHE:CG	45:RD:356:ILE:HG13	2.52	0.45
44:RE:5:ILE:O	44:RE:135:PHE:HA	2.16	0.45
44:RE:51:THR:HG21	44:RE:242:LEU:CB	2.45	0.45
44:RE:105:ARG:HB3	44:RE:110:ILE:HD11	1.96	0.45
44:RE:335:ILE:HD12	44:RE:335:ILE:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:390:ARG:HG3	44:RE:391:LEU:N	2.32	0.45
44:RG:135:PHE:C	44:RG:136:LEU:HD23	2.36	0.45
44:RG:390:ARG:HG3	44:RG:391:LEU:N	2.32	0.45
45:RH:62:ARG:HG3	45:RH:123:GLU:OE1	2.17	0.45
45:RH:350:LYS:CG	45:RH:351:SER:N	2.79	0.45
44:RI:324:VAL:HG23	44:RI:325:PRO:HD2	1.98	0.45
44:RI:324:VAL:HG11	44:RI:326:LYS:HE3	1.98	0.45
44:RI:326:LYS:HD3	45:RJ:212:PHE:CZ	2.51	0.45
45:RJ:169:VAL:O	45:RJ:169:VAL:HG23	2.17	0.45
45:RJ:271:ALA:O	45:RJ:365:VAL:HB	2.17	0.45
44:RK:213:CYS:O	44:RK:217:LEU:HB2	2.16	0.45
44:RM:68:LEU:HD22	44:RM:120:ASP:OD2	2.17	0.45
44:RM:324:VAL:HG13	44:RM:325:PRO:HD2	1.99	0.45
45:RN:22:GLU:HG2	45:RN:81:PHE:CB	2.46	0.45
45:RN:287:PRO:CA	45:RN:290:THR:HG22	2.43	0.45
44:SA:7:ILE:N	44:SA:136:LEU:O	2.32	0.45
44:SA:13:GLY:HA2	44:SA:138:PHE:O	2.15	0.45
44:SA:157:LEU:HD22	44:SA:161:TYR:HE2	1.82	0.45
44:SA:270:SER:HA	44:SA:377:MET:O	2.16	0.45
45:SB:47:ILE:HG13	45:SB:47:ILE:O	2.16	0.45
45:SB:255:VAL:HG11	44:SC:100:ALA:HB1	1.97	0.45
45:SB:271:ALA:HB1	45:SB:292:GLN:CG	2.47	0.45
44:SC:354:GLY:O	44:SC:355:ILE:HG13	2.17	0.45
45:SD:97:ALA:CA	45:SD:103:LYS:HD2	2.44	0.45
45:SD:323:THR:HG21	44:SE:224:TYR:CE1	2.52	0.45
44:SE:363:VAL:HG13	44:SE:363:VAL:O	2.17	0.45
45:SH:1:MET:N	45:SH:46:ARG:HH11	2.14	0.45
45:SH:44:LEU:HD23	45:SH:47:ILE:HD13	1.98	0.45
45:SH:101:TRP:CD2	45:SH:187:LEU:HB3	2.52	0.45
45:SH:324:LYS:HD3	44:SI:222:PRO:HG3	1.97	0.45
44:SI:203:MET:CG	44:SI:384:ILE:HD11	2.26	0.45
44:SI:237:SER:HB3	44:SI:376:CYS:HB3	1.98	0.45
44:SK:168:GLY:O	44:SK:202:VAL:N	2.50	0.45
44:SK:200:VAL:HG13	44:SK:268:MET:CE	2.47	0.45
45:SL:55:THR:CG2	45:TL:284:LEU:H	2.29	0.45
45:SL:55:THR:H	45:TL:283:ALA:HA	1.82	0.45
45:SL:99:ASN:O	45:SL:180:VAL:HG21	2.16	0.45
45:SL:110:ALA:O	45:SL:113:ILE:HG22	2.16	0.45
45:SL:167:PHE:HA	45:SL:200:MET:HB2	1.97	0.45
44:SM:1:MET:O	44:SM:1:MET:HG3	2.16	0.45
44:SM:141:VAL:CG1	44:SM:172:TYR:HA	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SM:341:ILE:HG22	44:SM:343:PHE:HE1	1.82	0.45
44:TA:256:GLN:O	45:TB:397:TRP:NE1	2.35	0.45
44:TA:288:VAL:HG12	44:TA:291:ILE:HD11	1.99	0.45
45:TB:124:ALA:HB1	45:TB:130:LEU:HD22	1.99	0.45
45:TB:318:ARG:HG2	45:TB:358:PRO:HD3	1.98	0.45
44:TC:235:ILE:O	44:TC:239:THR:N	2.49	0.45
44:TC:310:GLY:HA3	44:TC:382:THR:OG1	2.16	0.45
45:TD:51:TYR:C	45:TD:62:ARG:HH21	2.20	0.45
45:TD:133:PHE:HB3	45:TD:135:ILE:CD1	2.46	0.45
45:TD:157:GLU:O	45:TD:157:GLU:HG3	2.17	0.45
44:TE:315:CYS:HB3	44:TE:351:PHE:CD1	2.46	0.45
44:TG:273:ALA:O	44:TG:374:ALA:HB1	2.16	0.45
45:TH:2:ARG:HD2	44:TI:73:THR:HA	1.99	0.45
45:TH:256:ASN:HB2	45:TH:350:LYS:HD2	1.97	0.45
45:TH:324:LYS:CE	44:TI:210:TYR:HB3	2.47	0.45
44:TI:301:MET:HE3	44:TI:307:PRO:HG3	1.99	0.45
44:TI:332:ILE:O	44:TI:335:ILE:HG22	2.17	0.45
45:TL:238:CYS:SG	45:TL:239:CYS:N	2.90	0.45
45:TL:372:THR:HA	45:TL:422:TYR:CE2	2.46	0.45
44:TM:66:VAL:HG22	44:TM:68:LEU:HD11	1.99	0.45
44:TM:75:ILE:HD12	44:TM:92:LEU:CB	2.43	0.45
45:TN:76:VAL:O	45:TN:76:VAL:HG22	2.16	0.45
45:TN:91:VAL:O	45:TN:91:VAL:HG23	2.17	0.45
44:UA:229:ARG:O	44:UA:233:GLN:HG2	2.16	0.45
44:UA:270:SER:HB3	44:UA:378:ILE:CD1	2.47	0.45
45:UB:264:HIS:HA	45:UB:266:PHE:CZ	2.51	0.45
45:UB:299:MET:CG	45:UB:305:PRO:HG3	2.39	0.45
45:UD:55:THR:HG23	45:VD:283:ALA:HA	1.98	0.45
45:UD:68:LEU:HD23	45:UD:97:ALA:N	2.32	0.45
45:UD:256:ASN:O	45:UD:257:LEU:HD12	2.17	0.45
44:UE:9:VAL:HG12	44:UE:139:ASN:HB3	1.99	0.45
44:UE:182:VAL:O	44:UE:182:VAL:HG22	2.17	0.45
44:UE:236:SER:HA	44:UE:243:ARG:NH2	2.30	0.45
45:UF:311:LEU:HD23	45:UF:342:VAL:CG1	2.47	0.45
44:UG:201:ALA:HB3	44:UG:267:PHE:CD2	2.52	0.45
45:UH:268:ILE:O	45:UH:300:MET:HG2	2.17	0.45
45:UH:309:ARG:HB3	45:UH:340:TYR:O	2.17	0.45
45:UH:322:SER:HB3	45:UH:323:THR:C	2.36	0.45
45:UH:323:THR:O	45:UH:326:VAL:HB	2.16	0.45
44:UI:71:GLU:OE1	44:UI:73:THR:HB	2.17	0.45
44:UI:172:TYR:HB2	44:UI:203:MET:HE1	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:256:GLN:OE1	45:UJ:397:TRP:HZ2	1.99	0.45
45:UJ:371:SER:O	45:UJ:374:ILE:HG23	2.17	0.45
44:UK:208:ALA:HB3	44:UK:302:MET:O	2.16	0.45
45:UL:45:GLU:HB3	45:UL:46:ARG:NH2	2.32	0.45
45:UL:131:GLN:HG3	45:UL:163:ILE:HD11	1.96	0.45
45:UN:14:ASN:OD1	45:UN:65:LEU:HD23	2.17	0.45
45:UN:76:VAL:C	45:UN:79:GLY:H	2.19	0.45
45:UN:77:ARG:HG3	45:UN:78:ALA:N	2.32	0.45
45:UN:180:VAL:HG21	45:UN:398:TYR:HE2	1.80	0.45
44:VA:222:PRO:CD	45:VB:324:LYS:HD3	2.46	0.45
45:VB:258:ILE:HG13	45:VB:266:PHE:HZ	1.82	0.45
44:VC:51:THR:HG22	44:VC:52:PHE:CD2	2.51	0.45
44:VC:105:ARG:HG2	44:VC:411:GLU:OE1	2.17	0.45
44:VC:221:ARG:NH1	45:VD:322:SER:O	2.50	0.45
44:VC:252:ILE:HA	44:VC:255:PHE:CZ	2.52	0.45
45:VD:190:HIS:ND1	45:VD:411:ALA:HA	2.32	0.45
44:VE:421:ALA:O	44:VE:424:ASP:HB2	2.17	0.45
45:VF:417:ASP:OD1	45:VF:421:GLU:HG3	2.17	0.45
44:VG:182:VAL:O	44:VG:182:VAL:HG22	2.16	0.45
44:VI:135:PHE:C	44:VI:136:LEU:HD23	2.37	0.45
45:VJ:113:ILE:HA	45:VJ:116:VAL:CG1	2.41	0.45
44:VK:183:GLU:CD	44:VK:184:PRO:HD3	2.37	0.45
45:VL:217:LEU:HD11	45:VL:220:PRO:CA	2.45	0.45
45:VL:263:LEU:HD11	45:VL:421:GLU:OE1	2.17	0.45
45:VN:81:PHE:HA	45:VN:84:LEU:CD1	2.45	0.45
45:VN:211:CYS:SG	45:VN:217:LEU:HD21	2.57	0.45
44:WA:162:GLY:O	44:WA:166:LYS:NZ	2.49	0.45
44:WA:288:VAL:HG11	44:WA:327:ASP:HB3	1.97	0.45
45:WB:70:PRO:O	45:WB:74:ASP:N	2.47	0.45
45:WB:153:SER:HB2	45:WB:195:ASN:OD1	2.17	0.45
45:WB:242:PHE:HB3	45:WB:356:ILE:HD13	1.98	0.45
44:WC:181:VAL:HG12	45:WD:348:ASN:HA	1.98	0.45
44:WC:210:TYR:CZ	44:WC:227:LEU:HD11	2.51	0.45
44:WC:224:TYR:HA	44:WC:227:LEU:HD12	1.98	0.45
45:WD:5:VAL:HG12	45:WD:62:ARG:CD	2.38	0.45
45:WD:42:LEU:CD2	45:WD:356:ILE:HD11	2.26	0.45
45:WD:159:TYR:HB3	45:WD:162:ARG:HG3	1.98	0.45
45:WD:207:LEU:CG	45:WD:228:LEU:HD12	2.47	0.45
45:WD:335:ASN:O	45:WD:338:SER:OG	2.31	0.45
44:WG:68:LEU:HD21	44:WG:118:CYS:SG	2.57	0.45
44:WG:346:TRP:O	44:WG:348:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WI:236:SER:O	44:WI:240:ALA:HB2	2.16	0.45
44:WI:420:GLU:O	44:WI:423:GLU:N	2.50	0.45
45:WJ:285:THR:OG1	45:WJ:287:PRO:HD2	2.16	0.45
45:WN:200:MET:HE1	45:WN:267:MET:HA	1.96	0.45
1:6H:263:TYR:OH	44:FE:19:ALA:HB2	2.16	0.45
3:0B:57:SER:CB	44:JE:2:ARG:HH12	2.23	0.45
8:0G:105:TYR:CD2	44:JM:77:GLU:HG3	2.50	0.45
8:0G:119:ILE:CG1	44:JM:221:ARG:HH21	2.25	0.45
13:0T:118:TYR:OH	45:AB:304:ASP:OD2	2.31	0.45
8:1G:115:PRO:HB2	44:JA:226:ASN:HD21	1.80	0.45
20:1J:250:LEU:HD21	44:HI:89:PRO:HB2	1.96	0.45
14:1U:238:SER:HA	45:WF:33:THR:HG21	1.95	0.45
2:2A:39:TYR:OH	44:MI:78:VAL:HG22	2.17	0.45
5:2D:72:GLN:OE1	45:DJ:57:GLY:N	2.49	0.45
5:2D:177:THR:HG21	45:EJ:47:ILE:HG22	1.99	0.45
10:2N:215:CYS:SG	45:KB:32:PRO:HG3	2.56	0.45
26:2R:151:PHE:O	45:AJ:78:ALA:HA	2.17	0.45
15:2V:62:HIS:HD2	45:LF:162:ARG:HH12	1.63	0.45
31:3H:205:GLN:NE2	44:AG:81:GLY:HA3	2.31	0.45
26:3R:153:LYS:HE2	45:AN:75:SER:HB2	1.97	0.45
35:4R:105:GLU:OE2	45:BH:274:THR:HG21	2.16	0.45
37:5A:175:LYS:HZ3	45:KD:343:GLU:HG2	1.82	0.45
37:5D:34:PHE:O	44:KK:431:ASP:OD1	2.34	0.45
37:5D:114:PRO:HG2	44:NM:373:ARG:HH12	1.80	0.45
38:5F:28:SER:HA	44:OC:219:ILE:HG12	1.97	0.45
38:5G:9:TYR:O	38:5G:14:ARG:HD3	2.17	0.45
38:5G:88:HIS:CE1	38:5G:92:GLN:HE22	2.35	0.45
38:5G:134:ILE:HG21	45:OL:227:HIS:CB	2.47	0.45
39:5I:107:GLN:HA	39:5I:110:LYS:HG2	1.99	0.45
11:5Q:93:VAL:HG22	11:5Q:94:LEU:N	2.31	0.45
35:5R:14:GLY:HA2	35:5R:17:PHE:N	2.32	0.45
35:5R:20:HIS:CD2	45:LJ:221:THR:HG21	2.52	0.45
35:5R:121:TYR:OH	44:AI:44:GLY:HA3	2.17	0.45
35:5R:189:GLU:HA	35:5R:192:VAL:CG1	2.46	0.45
35:5R:309:LEU:HD21	35:5R:342:ILE:HG23	1.98	0.45
35:5R:574:ARG:C	35:5R:577:GLY:H	2.19	0.45
36:5S:128:LEU:HD21	36:5S:135:ILE:HG21	1.98	0.45
41:6G:115:ILE:O	41:6G:116:ILE:O	2.35	0.45
41:6G:205:LEU:CD2	45:UF:158:GLU:HG2	2.46	0.45
11:6Q:29:ILE:CD1	11:6Q:34:ILE:HD12	2.45	0.45
35:6R:118:LEU:HD11	35:6R:127:ILE:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:378:ILE:H	35:6R:378:ILE:HG13	1.46	0.45
35:6R:382:TYR:O	35:6R:382:TYR:CD1	2.70	0.45
35:6R:541:LYS:HG3	35:6R:542:TYR:N	2.32	0.45
35:7R:122:LEU:HD12	35:7R:122:LEU:O	2.16	0.45
35:7R:361:LEU:HA	35:7R:366:LEU:O	2.17	0.45
44:AA:297:GLU:OE1	44:AA:299:ALA:N	2.49	0.45
44:AA:312:TYR:HB2	44:AA:343:PHE:HD2	1.82	0.45
45:AB:267:MET:CE	45:AB:371:SER:HB3	2.47	0.45
45:AD:113:ILE:HD12	45:AD:150:LEU:HD22	1.98	0.45
45:AF:9:GLY:HA3	45:AF:66:MET:SD	2.56	0.45
45:AF:68:LEU:CD2	45:AF:97:ALA:HB2	2.46	0.45
45:AF:232:ALA:CB	45:AF:268:ILE:HD12	2.47	0.45
45:AF:251:ARG:O	45:AF:255:VAL:HG23	2.16	0.45
44:AG:68:LEU:HD11	44:AG:118:CYS:HB2	1.99	0.45
45:AH:418:LEU:O	45:AH:422:TYR:HB2	2.16	0.45
44:AK:93:ILE:HD12	44:AK:117:LEU:HD21	1.98	0.45
45:AL:281:TYR:HE1	45:ML:58:ARG:NH2	2.04	0.45
44:AM:176:GLN:HG2	44:AM:177:VAL:N	2.30	0.45
44:BC:51:THR:HG23	44:BC:52:PHE:HD1	1.81	0.45
44:BC:176:GLN:HG2	44:BC:177:VAL:N	2.31	0.45
44:BC:202:VAL:HG12	44:BC:203:MET:N	2.31	0.45
44:BC:258:ASN:HA	45:BF:179:VAL:CG2	2.47	0.45
45:BD:294:PHE:HD1	45:BD:333:VAL:HG21	1.82	0.45
44:BE:348:PRO:HG2	45:BH:384:GLN:OE1	2.17	0.45
45:BF:7:ILE:O	45:BF:135:ILE:HG23	2.17	0.45
45:BF:423:GLN:O	45:BF:426:GLN:HB3	2.17	0.45
44:BG:207:GLU:HG2	44:BG:304:LYS:HZ2	1.82	0.45
45:BH:99:ASN:CA	45:BH:142:GLY:HA3	2.29	0.45
44:BI:145:THR:HG21	46:BI:501:GTP:O3G	2.17	0.45
45:BJ:27:GLU:OE2	45:BJ:318:ARG:NH2	2.48	0.45
45:BJ:77:ARG:NH1	45:BJ:83:GLN:HA	2.32	0.45
45:BJ:341:PHE:HD2	45:BJ:348:ASN:HD21	1.65	0.45
44:BK:7:ILE:HD12	44:BK:7:ILE:N	2.31	0.45
44:BK:253:THR:HG23	44:BK:254:GLU:HG3	1.99	0.45
44:BM:70:LEU:HD13	44:BM:110:ILE:CD1	2.45	0.45
44:BM:291:ILE:HG13	44:BM:292:THR:N	2.32	0.45
44:CA:104:ALA:HB3	44:CA:411:GLU:HG3	1.98	0.45
44:CA:209:ILE:HB	44:CA:227:LEU:HD22	1.99	0.45
44:CA:288:VAL:O	44:CA:291:ILE:HG12	2.17	0.45
44:CC:250:VAL:O	44:CC:250:VAL:HG23	2.17	0.45
45:CD:221:THR:HG23	45:CD:223:GLY:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:245:GLN:C	45:CD:246:LEU:HD12	2.38	0.45
44:CE:202:VAL:CG1	44:CE:270:SER:HB3	2.46	0.45
44:CE:383:ALA:O	44:CE:386:GLU:HG2	2.16	0.45
45:CF:170:VAL:HG13	45:CF:171:PRO:CD	2.47	0.45
45:CF:207:LEU:HD21	45:CF:300:MET:HE3	1.99	0.45
44:CG:2:ARG:HD3	44:CG:242:LEU:CD2	2.30	0.45
44:CG:296:PHE:HD2	44:CG:335:ILE:HG12	1.81	0.45
45:CH:11:GLN:CD	45:CH:72:THR:HG21	2.36	0.45
45:CH:271:ALA:HA	45:CH:273:LEU:CD2	2.47	0.45
44:CI:208:ALA:O	44:CI:211:ASP:HB2	2.17	0.45
44:CK:288:VAL:O	44:CK:292:THR:HG22	2.17	0.45
45:CL:19:LYS:HG2	45:CL:227:HIS:CA	2.36	0.45
44:CM:2:ARG:NH2	44:CM:243:ARG:HA	2.32	0.45
44:CM:68:LEU:HD13	44:CM:93:ILE:HB	1.99	0.45
44:CM:205:ASP:OD2	44:CM:303:ALA:HB1	2.16	0.45
45:CN:258:ILE:HD11	45:CN:266:PHE:CZ	2.52	0.45
45:CN:287:PRO:O	45:CN:290:THR:HG22	2.16	0.45
45:CN:295:ASP:HB3	45:CN:298:ASN:HB2	1.99	0.45
45:CN:329:GLN:O	45:CN:333:VAL:HG23	2.16	0.45
44:DA:7:ILE:HA	44:DA:66:VAL:HG13	1.99	0.45
44:DA:137:VAL:O	44:DA:168:GLY:HA2	2.17	0.45
44:DA:141:VAL:HG23	44:DA:190:SER:OG	2.16	0.45
44:DA:183:GLU:HG2	44:DA:184:PRO:N	2.31	0.45
44:DA:217:LEU:HD21	44:DA:367:ASP:HB3	1.98	0.45
44:DA:290:GLU:O	44:DA:294:SER:OG	2.23	0.45
45:DB:42:LEU:HD23	45:DB:243:PRO:HD2	1.98	0.45
45:DB:47:ILE:O	45:DB:51:TYR:HB2	2.17	0.45
45:DB:145:SER:CB	45:DB:184:ASN:HB2	2.46	0.45
45:DD:16:ILE:HD13	45:DD:226:ASN:OD1	2.17	0.45
45:DD:168:SER:O	45:DD:201:VAL:HA	2.16	0.45
45:DD:267:MET:CE	45:DD:299:MET:HG2	2.46	0.45
44:DE:137:VAL:HG11	44:DE:154:LEU:HD21	1.99	0.45
45:DF:25:SER:OG	45:DF:30:ILE:HD11	2.16	0.45
44:DG:319:TYR:HE2	44:DG:328:VAL:HG22	1.81	0.45
45:DH:178:THR:HG22	45:DH:180:VAL:HG12	1.98	0.45
45:DH:256:ASN:ND2	44:DI:180:ALA:HB1	2.31	0.45
45:DH:262:ARG:HG3	45:DH:263:LEU:HD12	1.95	0.45
45:DH:334:GLN:HE22	45:DH:347:ASN:CA	2.30	0.45
44:DI:84:ARG:HG3	44:DI:85:GLN:HG2	1.99	0.45
45:DJ:86:ARG:NH2	45:EJ:282:ARG:HG3	2.30	0.45
44:DK:138:PHE:HZ	44:DK:235:ILE:CD1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:294:SER:O	44:DK:297:GLU:HB2	2.16	0.45
44:DK:387:VAL:O	44:DK:391:LEU:HD13	2.17	0.45
44:DK:439:THR:HG21	45:DL:390:ARG:CD	2.46	0.45
44:DM:102:ASN:CG	44:DM:105:ARG:HG3	2.37	0.45
44:DM:204:LEU:CD2	44:DM:231:ILE:CD1	2.94	0.45
44:DM:274:PRO:HD3	44:DM:291:ILE:HB	1.99	0.45
44:DM:384:ILE:CD1	44:DM:387:VAL:HG21	2.47	0.45
45:DN:178:THR:HG22	45:DN:180:VAL:H	1.80	0.45
44:EC:137:VAL:O	44:EC:169:PHE:HB2	2.17	0.45
45:ED:173:PRO:HD2	45:ED:205:GLU:OE1	2.16	0.45
45:ED:337:ASN:CB	45:ED:340:TYR:HB2	2.29	0.45
44:EE:135:PHE:HB2	44:EE:166:LYS:HG2	1.99	0.45
44:EE:229:ARG:HG2	44:EE:229:ARG:HH11	1.82	0.45
45:EF:46:ARG:HH22	44:EG:73:THR:CA	2.19	0.45
45:EF:210:ILE:HA	45:EF:213:ARG:HG2	1.97	0.45
45:EF:398:TYR:HD2	45:EF:408:PHE:HZ	1.65	0.45
44:EG:12:GLY:O	44:EG:16:VAL:HG13	2.16	0.45
44:EG:424:ASP:O	44:EG:427:ALA:N	2.50	0.45
45:EH:352:SER:C	45:EH:353:ILE:HD12	2.37	0.45
44:EI:155:GLU:HA	44:EI:155:GLU:OE1	2.15	0.45
44:EI:328:VAL:CG1	44:EI:353:VAL:HG21	2.47	0.45
45:EJ:263:LEU:HG	45:EJ:422:TYR:CD1	2.52	0.45
45:EJ:325:GLU:HA	45:EJ:328:GLU:OE2	2.17	0.45
44:EK:229:ARG:HH11	44:EK:363:VAL:HG21	1.81	0.45
44:EK:326:LYS:HB2	45:EL:212:PHE:HZ	1.82	0.45
45:EN:143:THR:HG23	45:EN:144:GLY:N	2.32	0.45
45:EN:317:PHE:N	45:EN:352:SER:O	2.49	0.45
44:FA:132:LEU:CD2	44:FA:164:LYS:HG2	2.47	0.45
44:FA:270:SER:HB3	44:FA:378:ILE:CD1	2.45	0.45
45:FB:208:TYR:CD1	45:FB:225:LEU:HD11	2.51	0.45
44:FC:11:GLN:OE1	45:FD:247:ASN:ND2	2.50	0.45
44:FC:220:GLU:OE1	44:FC:221:ARG:HB2	2.15	0.45
45:FD:20:PHE:HE1	45:FD:233:MET:HB3	1.82	0.45
45:FD:54:ALA:HA	45:GD:283:ALA:CB	2.47	0.45
44:FE:10:GLY:HA3	46:FE:501:GTP:O1B	2.17	0.45
44:FE:118:CYS:O	44:FE:122:ILE:HG12	2.17	0.45
44:FE:407:TRP:HH2	45:FF:254:ALA:CB	2.30	0.45
44:FG:288:VAL:C	44:FG:291:ILE:HG22	2.38	0.45
45:FH:15:GLN:HA	45:FH:15:GLN:NE2	2.31	0.45
45:FH:86:ARG:HH21	45:FH:87:PRO:HG2	1.81	0.45
45:FH:264:HIS:O	45:FH:265:PHE:HD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:1:MET:O	44:FI:1:MET:HG3	2.16	0.45
44:FI:325:PRO:HG3	45:FL:222:TYR:CE2	2.52	0.45
44:FI:425:LEU:HD23	44:FI:425:LEU:HA	1.88	0.45
44:FI:433:GLU:O	44:FI:437:ILE:HG23	2.16	0.45
45:FJ:28:HIS:NE2	45:FJ:241:ARG:HD2	2.31	0.45
45:FL:342:VAL:HG13	45:FL:345:ILE:CG2	2.47	0.45
44:GA:100:ALA:HB2	45:GB:251:ARG:HB3	1.99	0.45
45:GB:1:MET:O	45:GB:2:ARG:HG2	2.16	0.45
45:GB:267:MET:HE1	45:GB:371:SER:CB	2.47	0.45
44:GC:169:PHE:CD1	44:GC:202:VAL:HG12	2.51	0.45
45:GF:155:VAL:HG13	45:GF:156:ARG:HG2	1.99	0.45
45:GF:286:VAL:HG21	45:GF:325:GLU:CG	2.46	0.45
45:GF:330:MET:HE3	45:GF:349:ILE:CD1	2.36	0.45
44:GG:205:ASP:OD2	44:GG:304:LYS:HB2	2.17	0.45
44:GG:277:SER:OG	44:GG:279:GLU:HG3	2.16	0.45
44:GG:400:ALA:HB1	44:GG:401:LYS:HZ3	1.82	0.45
45:GH:368:VAL:HG23	45:GH:368:VAL:O	2.17	0.45
44:GK:119:LEU:CG	44:GK:156:ARG:HG2	2.47	0.45
44:GK:295:ALA:HB1	44:GK:377:MET:HE1	1.99	0.45
45:GL:28:HIS:HE1	45:GL:242:PHE:HE1	1.64	0.45
44:GM:437:ILE:HG13	44:GM:437:ILE:O	2.15	0.45
45:GN:217:LEU:HD13	45:GN:220:PRO:HA	1.97	0.45
45:GN:286:VAL:HG22	45:GN:321:MET:CE	2.47	0.45
44:HA:314:ALA:HA	44:HA:350:GLY:CA	2.46	0.45
44:HA:390:ARG:HG3	44:HA:391:LEU:N	2.32	0.45
45:HB:68:LEU:HD23	45:HB:97:ALA:N	2.32	0.45
45:HB:342:VAL:HG11	45:HB:345:ILE:CG2	2.39	0.45
45:HB:399:THR:HA	45:HB:403:MET:O	2.17	0.45
44:HC:183:GLU:CG	44:HC:184:PRO:HD3	2.47	0.45
44:HC:344:VAL:HG11	44:HC:346:TRP:CE2	2.52	0.45
45:HD:167:PHE:CE1	45:HD:200:MET:SD	3.10	0.45
45:HF:132:GLY:HA3	45:HF:163:ILE:HG13	1.98	0.45
44:HG:13:GLY:O	44:HG:16:VAL:HG12	2.17	0.45
45:HH:113:ILE:HA	45:HH:116:VAL:HG12	1.99	0.45
44:HI:274:PRO:O	44:HI:275:ILE:HD13	2.16	0.45
44:HK:212:ILE:CD1	44:HK:300:ASN:HA	2.47	0.45
44:HK:237:SER:HA	44:HK:320:ARG:HH11	1.82	0.45
45:HL:19:LYS:HD3	45:HL:22:GLU:OE1	2.16	0.45
45:HL:89:ASN:HD22	45:HL:119:VAL:HG21	1.81	0.45
44:HM:14:ILE:HD13	44:HM:74:VAL:HG13	1.98	0.45
44:HM:66:VAL:HG22	44:HM:68:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HM:145:THR:HG23	44:HM:146:GLY:N	2.32	0.45
44:HM:311:LYS:O	44:HM:381:SER:HA	2.17	0.45
45:HN:315:ALA:C	45:HN:316:LEU:HD12	2.37	0.45
44:IA:152:LEU:O	44:IA:155:GLU:HB2	2.17	0.45
45:IB:1:MET:HA	45:IB:129:CYS:HB3	1.97	0.45
44:IC:210:TYR:CE1	44:IC:227:LEU:HD11	2.51	0.45
45:ID:12:CYS:HB3	45:ID:138:SER:HB3	1.98	0.45
45:ID:110:ALA:HA	45:ID:113:ILE:CG1	2.47	0.45
45:ID:275:SER:O	45:ID:279:GLN:HB2	2.17	0.45
44:IE:224:TYR:HB2	45:IF:245:GLN:OE1	2.17	0.45
45:IF:415:MET:HE2	45:IF:415:MET:CA	2.47	0.45
44:IG:221:ARG:HD2	45:IH:322:SER:OG	2.17	0.45
45:IH:270:PHE:HD2	45:IH:273:LEU:HD21	1.82	0.45
44:II:30:ILE:CD1	44:II:61:HIS:HB2	2.43	0.45
45:IJ:180:VAL:HG21	45:IJ:398:TYR:OH	2.16	0.45
45:IJ:263:LEU:HD12	45:IJ:263:LEU:N	2.32	0.45
44:IK:145:THR:HG22	46:IK:501:GTP:O1B	2.17	0.45
45:IL:201:VAL:HG11	45:IL:377:MET:CE	2.47	0.45
44:IM:107:HIS:CD2	44:IM:152:LEU:HB2	2.51	0.45
44:IM:273:ALA:N	44:IM:375:VAL:O	2.44	0.45
45:IN:258:ILE:HG23	45:IN:263:LEU:O	2.17	0.45
44:JA:2:ARG:N	44:JA:2:ARG:HD3	2.32	0.45
45:JD:333:VAL:HA	45:JD:336:LYS:NZ	2.31	0.45
44:JE:217:LEU:HD13	44:JE:277:SER:HB3	1.99	0.45
44:JE:326:LYS:CE	45:JH:220:PRO:HB2	2.45	0.45
45:JF:210:ILE:CA	45:JF:297:LYS:HZ1	2.21	0.45
45:JF:290:THR:O	45:JF:293:MET:HG2	2.17	0.45
44:JG:119:LEU:HD11	44:JG:160:ASP:OD2	2.17	0.45
45:JJ:143:THR:HG23	45:JJ:144:GLY:N	2.32	0.45
44:JK:118:CYS:SG	44:JK:153:LEU:HD22	2.56	0.45
44:JK:262:TYR:HA	45:JN:396:HIS:NE2	2.32	0.45
44:JK:402:ARG:HD3	44:JK:405:VAL:HG21	1.99	0.45
44:JM:287:SER:O	44:JM:291:ILE:HG23	2.17	0.45
44:JM:386:GLU:HG2	44:JM:387:VAL:N	2.31	0.45
44:JM:427:ALA:HA	44:JM:430:LYS:HZ3	1.81	0.45
45:JN:81:PHE:HD2	45:JN:84:LEU:HD11	1.82	0.45
44:KA:260:VAL:O	44:KA:260:VAL:HG23	2.17	0.45
45:KB:170:VAL:N	45:KB:202:ILE:O	2.49	0.45
44:KC:89:PRO:HD3	44:LC:283:HIS:CE1	2.51	0.45
44:KC:261:PRO:HB3	44:KC:346:TRP:CH2	2.51	0.45
44:KC:264:ARG:NH1	44:KC:428:LEU:HB2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:164:MET:HE1	45:KD:196:ALA:HA	1.97	0.45
44:KG:275:ILE:HD12	44:KG:368:LEU:HD11	1.97	0.45
44:KG:305:CYS:O	44:KG:307:PRO:HD3	2.17	0.45
44:KG:338:LYS:HD2	44:KG:341:ILE:HD13	1.97	0.45
45:KH:309:ARG:HG3	45:KH:426:GLN:HE21	1.81	0.45
45:KH:375:GLN:O	45:KH:379:LYS:HG3	2.16	0.45
44:KI:3:GLU:HG2	44:KI:64:ARG:CZ	2.47	0.45
44:KI:3:GLU:OE2	44:KI:50:ASN:HB3	2.17	0.45
44:KI:71:GLU:OE2	44:KI:73:THR:OG1	2.35	0.45
44:KI:229:ARG:HG2	44:KI:229:ARG:HH11	1.81	0.45
45:KJ:36:TYR:CE1	45:KJ:44:LEU:HD22	2.52	0.45
45:KJ:171:PRO:HG2	45:KJ:181:GLU:CG	2.46	0.45
44:KK:1:MET:CE	45:KN:70:PRO:HG3	2.47	0.45
44:KK:256:GLN:NE2	44:KK:257:THR:HG23	2.32	0.45
45:KL:31:ASP:HB2	45:KL:32:PRO:CD	2.47	0.45
45:KL:294:PHE:HD2	45:KL:333:VAL:HG21	1.82	0.45
44:KM:145:THR:HG22	46:KM:501:GTP:O3B	2.16	0.45
45:KN:139:LEU:HD23	45:KN:189:VAL:HG23	1.98	0.45
45:KN:246:LEU:HB2	45:KN:353:ILE:HD13	1.99	0.45
45:KN:302:ALA:HB3	45:KN:380:ARG:HH22	1.81	0.45
44:LA:258:ASN:O	44:LA:259:LEU:HD22	2.17	0.45
45:LB:113:ILE:HA	45:LB:116:VAL:HG12	1.97	0.45
45:LB:172:SER:OG	45:LB:205:GLU:HG2	2.16	0.45
45:LB:289:LEU:HD11	45:LB:363:MET:HB3	1.99	0.45
44:LC:6:SER:OG	44:LC:65:ALA:HA	2.17	0.45
44:LC:109:THR:HG23	44:LC:110:ILE:N	2.32	0.45
44:LC:387:VAL:HG12	44:LC:390:ARG:NH2	2.28	0.45
45:LD:199:CYS:SG	45:LD:200:MET:N	2.90	0.45
44:LE:68:LEU:HD11	44:LE:118:CYS:SG	2.57	0.45
44:LE:294:SER:HA	44:LE:297:GLU:CG	2.45	0.45
45:LF:2:ARG:NH2	45:LF:240:LEU:HG	2.32	0.45
44:LG:204:LEU:HD13	44:LG:231:ILE:HD13	1.98	0.45
44:LG:276:ILE:HG23	44:LG:280:LYS:HB2	1.98	0.45
44:LG:394:LYS:CG	45:LH:346:PRO:HG3	2.41	0.45
45:LH:145:SER:O	45:LH:149:THR:OG1	2.20	0.45
45:LH:276:ARG:HD2	45:LH:276:ARG:C	2.37	0.45
44:LI:51:THR:HG21	44:LI:243:ARG:HD3	1.99	0.45
44:LI:52:PHE:HZ	44:LI:239:THR:HG21	1.82	0.45
45:LJ:49:VAL:HG22	45:LJ:50:TYR:CD1	2.52	0.45
45:LJ:63:ALA:O	45:LJ:64:ILE:HD13	2.17	0.45
45:LJ:116:VAL:O	45:LJ:120:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LK:98:ASP:OD1	44:LK:99:ALA:N	2.50	0.45
44:LM:174:SER:OG	44:LM:206:ASN:HB2	2.16	0.45
45:LN:238:CYS:SG	45:LN:239:CYS:N	2.90	0.45
45:MB:344:TRP:CZ3	45:MB:345:ILE:HB	2.52	0.45
44:MC:106:GLY:O	44:MC:148:GLY:HA3	2.17	0.45
44:MC:221:ARG:CG	45:MD:322:SER:HB3	2.47	0.45
44:ME:36:MET:HB3	44:ME:37:PRO:HD2	1.97	0.45
44:ME:280:LYS:HB3	44:ME:283:HIS:HB2	1.98	0.45
44:ME:387:VAL:HG21	44:ME:433:GLU:OE1	2.17	0.45
45:ML:1:MET:C	45:ML:2:ARG:HG2	2.36	0.45
45:ML:28:HIS:O	45:ML:43:GLN:NE2	2.41	0.45
45:ML:192:LEU:HD21	45:ML:199:CYS:SG	2.57	0.45
44:MM:4:VAL:CG1	44:MM:52:PHE:HE1	2.30	0.45
44:MM:72:PRO:HG2	45:MN:2:ARG:HH12	1.82	0.45
44:MM:141:VAL:HG21	44:MM:172:TYR:CE1	2.51	0.45
44:MM:377:MET:SD	44:MM:377:MET:N	2.90	0.45
44:MM:428:LEU:HD21	44:MM:432:TYR:CE2	2.52	0.45
44:NA:96:LYS:HA	45:NB:1:MET:HE2	1.98	0.45
45:NB:103:LYS:HD3	45:NB:107:THR:HG21	1.99	0.45
44:NC:70:LEU:HB3	44:NC:98:ASP:HA	1.99	0.45
45:ND:3:GLU:HG3	45:ND:127:CYS:HB2	1.99	0.45
45:ND:174:LYS:HE2	45:ND:205:GLU:OE1	2.17	0.45
45:ND:215:LEU:O	45:ND:275:SER:HB3	2.17	0.45
45:ND:217:LEU:O	45:ND:217:LEU:HD12	2.16	0.45
45:ND:269:GLY:HA2	45:ND:300:MET:HE3	1.99	0.45
45:ND:410:GLU:HA	45:ND:413:SER:OG	2.16	0.45
44:NE:181:VAL:HG23	45:NF:347:ASN:O	2.16	0.45
44:NE:287:SER:HB3	44:NE:290:GLU:OE2	2.16	0.45
44:NE:325:PRO:HG2	45:NH:222:TYR:CE2	2.52	0.45
45:NF:135:ILE:CD1	45:NF:164:MET:HE2	2.42	0.45
45:NF:336:LYS:HE3	45:NF:337:ASN:OD1	2.17	0.45
45:NH:183:TYR:OH	45:NH:388:MET:O	2.32	0.45
45:NH:216:LYS:NZ	45:NH:277:GLY:H	2.15	0.45
44:NI:70:LEU:CD1	44:NI:149:LEU:HD21	2.46	0.45
44:NI:182:VAL:C	44:NI:184:PRO:HD2	2.36	0.45
44:NI:220:GLU:OE1	44:NI:220:GLU:N	2.43	0.45
45:NJ:105:HIS:CD2	45:NJ:149:THR:HG23	2.51	0.45
45:NJ:313:ALA:O	45:NJ:349:ILE:HA	2.17	0.45
44:NK:121:ARG:HH21	44:NK:125:LEU:HD21	1.82	0.45
44:NK:196:GLU:OE1	44:NK:196:GLU:HA	2.17	0.45
44:NK:270:SER:O	44:NK:302:MET:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:3:GLU:CG	45:NL:127:CYS:HB2	2.46	0.45
45:NN:11:GLN:HB3	48:NN:501:GDP:PA	2.57	0.45
45:NN:66:MET:HE1	45:NN:147:MET:HB3	1.99	0.45
45:NN:372:THR:O	45:NN:422:TYR:HE1	1.98	0.45
44:OA:392:ASP:HB2	44:OA:425:LEU:CD2	2.42	0.45
45:OB:159:TYR:HB3	45:OB:162:ARG:HG2	1.98	0.45
45:OB:274:THR:OG1	45:OB:282:ARG:NH2	2.49	0.45
44:OC:105:ARG:NH1	45:OD:251:ARG:HD3	2.31	0.45
45:OD:34:GLY:HA3	45:OD:58:ARG:HE	1.81	0.45
45:OD:64:ILE:HG13	45:OD:89:ASN:ND2	2.32	0.45
45:OD:134:GLN:O	45:OD:134:GLN:HG3	2.16	0.45
45:OF:311:LEU:HB2	45:OF:370:ASN:O	2.17	0.45
44:OG:101:ASN:HA	44:OG:144:GLY:N	2.26	0.45
44:OG:387:VAL:O	44:OG:391:LEU:HD13	2.16	0.45
45:OH:36:TYR:CE1	45:OH:44:LEU:HD11	2.52	0.45
45:OH:139:LEU:HD22	45:OH:188:SER:CB	2.47	0.45
45:OH:267:MET:CE	45:OH:301:CYS:CB	2.94	0.45
44:OI:384:ILE:O	44:OI:387:VAL:HG22	2.16	0.45
45:OJ:178:THR:HB	45:OJ:181:GLU:CG	2.33	0.45
45:OJ:403:MET:HE3	45:OJ:403:MET:HA	1.99	0.45
45:OL:206:ALA:HB1	45:OL:300:MET:HA	1.99	0.45
45:OL:329:GLN:O	45:OL:333:VAL:HG23	2.16	0.45
45:OL:392:LYS:HG3	45:OL:395:LEU:HD23	1.98	0.45
44:OM:89:PRO:HD3	44:PM:280:LYS:HD2	1.98	0.45
44:OM:104:ALA:N	44:OM:413:MET:HE1	2.32	0.45
44:PA:53:PHE:HB3	44:PA:61:HIS:HB3	1.99	0.45
44:PA:75:ILE:HD11	44:PA:93:ILE:O	2.17	0.45
44:PA:345:ASP:HB2	44:PA:438:GLU:HG2	1.98	0.45
44:PC:9:VAL:HG21	44:PC:153:LEU:HD11	1.97	0.45
44:PC:274:PRO:HG3	44:PC:291:ILE:HD12	1.97	0.45
45:PD:36:TYR:CE1	45:PD:44:LEU:HD11	2.51	0.45
45:PD:177:ASP:C	45:PD:178:THR:HB	2.37	0.45
44:PE:7:ILE:HA	44:PE:66:VAL:HG12	1.95	0.45
44:PE:252:ILE:HA	44:PE:255:PHE:CD2	2.52	0.45
44:PE:269:LEU:HD23	44:PE:303:ALA:HB3	1.99	0.45
45:PF:4:ILE:HD11	45:PF:131:GLN:HB3	1.99	0.45
44:PG:200:VAL:HG13	44:PG:268:MET:SD	2.57	0.45
44:PI:155:GLU:HA	44:PI:197:HIS:CE1	2.52	0.45
44:PI:241:SER:HA	44:PI:356:ASN:ND2	2.32	0.45
45:PJ:267:MET:HE3	45:PJ:374:ILE:HG22	1.99	0.45
44:PK:250:VAL:HB	44:PK:255:PHE:HE1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PK:312:TYR:HB3	44:PK:343:PHE:CE1	2.51	0.45
45:PL:86:ARG:CG	45:PL:89:ASN:H	2.22	0.45
45:PL:101:TRP:CB	45:PL:398:TYR:HE2	2.30	0.45
45:PL:323:THR:O	45:PL:326:VAL:N	2.50	0.45
44:PM:66:VAL:HG22	44:PM:68:LEU:HD11	1.98	0.45
44:PM:69:ASP:OD2	44:PM:74:VAL:HG21	2.17	0.45
45:PN:22:GLU:HG2	45:PN:81:PHE:HD2	1.82	0.45
45:PN:217:LEU:CD1	45:PN:220:PRO:HG3	2.45	0.45
45:PN:222:TYR:CD1	48:PN:501:GDP:C6	3.05	0.45
45:PN:311:LEU:H	45:PN:371:SER:HA	1.81	0.45
45:PN:392:LYS:HG3	45:PN:395:LEU:CD2	2.45	0.45
44:QA:217:LEU:HB3	44:QA:219:ILE:HG13	1.99	0.45
44:QA:265:ILE:HG12	44:QA:432:TYR:CE1	2.51	0.45
45:QD:70:PRO:O	45:QD:74:ASP:N	2.29	0.45
45:QD:113:ILE:O	45:QD:117:LEU:HG	2.16	0.45
45:QD:324:LYS:HD3	44:QE:222:PRO:HD2	1.99	0.45
44:QE:101:ASN:OD1	44:QE:143:GLY:HA2	2.17	0.45
44:QG:362:VAL:HG22	44:QG:363:VAL:N	2.32	0.45
45:QH:40:SER:O	45:QH:43:GLN:HB2	2.16	0.45
44:QI:80:THR:O	44:QI:84:ARG:HD2	2.17	0.45
44:QI:323:VAL:HG13	44:QI:323:VAL:O	2.17	0.45
45:QJ:19:LYS:O	45:QJ:22:GLU:HB2	2.16	0.45
45:QL:68:LEU:CG	45:QL:96:GLY:HA2	2.38	0.45
45:QL:143:THR:HG22	48:QL:501:GDP:O2B	2.17	0.45
45:QL:175:VAL:O	45:QL:175:VAL:HG23	2.17	0.45
45:QL:374:ILE:HD11	45:QL:422:TYR:CG	2.51	0.45
44:QM:81:GLY:O	44:QM:84:ARG:HG2	2.16	0.45
44:QM:191:THR:HA	44:QM:194:LEU:HD21	1.98	0.45
44:QM:191:THR:O	44:QM:194:LEU:HG	2.17	0.45
44:QM:326:LYS:CE	45:QN:220:PRO:HD2	2.46	0.45
44:QM:422:ARG:HG2	44:QM:423:GLU:N	2.31	0.45
45:QN:257:LEU:HD11	45:QN:314:SER:HB2	1.98	0.45
44:RA:291:ILE:O	44:RA:295:ALA:HB2	2.16	0.45
44:RA:332:ILE:HD12	44:RA:332:ILE:H	1.82	0.45
45:RB:65:LEU:HD21	45:RB:85:PHE:CD2	2.52	0.45
45:RB:127:CYS:SG	45:RB:130:LEU:HB2	2.57	0.45
45:RB:249:ASP:OD1	45:RB:252:LYS:N	2.36	0.45
45:RB:325:GLU:O	45:RB:328:GLU:HG2	2.17	0.45
45:RB:404:ASP:OD1	45:RB:406:MET:HB2	2.17	0.45
45:RD:329:GLN:HA	45:RD:332:ASN:HB3	1.98	0.45
45:RF:33:THR:HG23	45:RF:35:THR:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:70:LEU:CD1	44:RG:99:ALA:HB2	2.47	0.45
45:RH:139:LEU:HD22	45:RH:170:VAL:HG12	1.98	0.45
44:RI:205:ASP:OD2	44:RI:303:ALA:HB1	2.17	0.45
44:RI:312:TYR:CD1	44:RI:381:SER:HB3	2.52	0.45
45:RJ:210:ILE:HD11	45:RJ:300:MET:HG2	1.97	0.45
45:RJ:285:THR:HG23	45:RJ:287:PRO:CD	2.43	0.45
44:RK:31:GLN:NE2	44:RK:37:PRO:HB3	2.32	0.45
44:RK:259:LEU:HD13	44:RK:268:MET:SD	2.57	0.45
44:RK:377:MET:C	44:RK:378:ILE:HD12	2.36	0.45
45:RL:58:ARG:CD	45:RL:59:TYR:N	2.80	0.45
45:RN:3:GLU:HA	45:RN:49:VAL:HG13	1.98	0.45
44:SA:2:ARG:HD2	44:SA:242:LEU:O	2.17	0.45
45:SB:22:GLU:O	45:SB:26:ASP:N	2.39	0.45
45:SB:234:SER:O	45:SB:238:CYS:N	2.50	0.45
45:SB:251:ARG:O	45:SB:255:VAL:HG12	2.16	0.45
44:SC:35:GLN:OE1	44:SC:59:GLY:HA2	2.17	0.45
44:SC:274:PRO:CD	44:SC:374:ALA:HA	2.45	0.45
44:SC:387:VAL:HG23	44:SC:388:PHE:N	2.31	0.45
45:SD:324:LYS:HD3	44:SE:222:PRO:HG2	1.96	0.45
44:SE:348:PRO:HG2	45:SF:384:GLN:HB3	1.98	0.45
45:SF:299:MET:HG3	45:SF:305:PRO:CG	2.32	0.45
45:SF:310:TYR:CD2	45:SF:341:PHE:HE1	2.34	0.45
44:SG:14:ILE:CD1	44:SG:75:ILE:HD11	2.47	0.45
44:SG:28:HIS:HD1	44:SG:49:PHE:HA	1.80	0.45
44:SG:66:VAL:HG22	44:SG:68:LEU:CD1	2.47	0.45
44:SI:387:VAL:HG12	44:SI:390:ARG:HH12	1.82	0.45
45:SL:92:PHE:C	45:SL:112:LEU:HD11	2.37	0.45
44:SM:331:SER:O	44:SM:334:THR:HB	2.16	0.45
45:SN:46:ARG:HG2	45:SN:241:ARG:C	2.37	0.45
45:SN:412:GLU:HA	45:SN:415:MET:HG3	1.99	0.45
44:TA:350:GLY:HA2	45:TB:179:VAL:CG1	2.47	0.45
45:TB:286:VAL:HB	45:TB:287:PRO:HD3	1.98	0.45
45:TB:323:THR:CG2	44:TC:224:TYR:CD2	3.00	0.45
44:TC:3:GLU:OE2	44:TC:129:CYS:HA	2.17	0.45
44:TC:171:ILE:HG12	44:TC:204:LEU:HB2	1.98	0.45
45:TD:20:PHE:HA	45:TD:230:SER:HB3	1.99	0.45
45:TD:252:LYS:CE	44:TE:101:ASN:HD21	2.25	0.45
45:TD:345:ILE:HG23	45:TD:345:ILE:O	2.16	0.45
45:TD:420:SER:O	45:TD:423:GLN:HG3	2.16	0.45
44:TE:23:LEU:HA	44:TE:26:LEU:HG	1.99	0.45
44:TE:62:VAL:HG21	44:UE:283:HIS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:325:PRO:HG3	45:TF:222:TYR:CE1	2.51	0.45
45:TF:17:GLY:O	45:TF:21:TRP:HD1	1.99	0.45
45:TF:68:LEU:HG	45:TF:96:GLY:CA	2.44	0.45
45:TF:113:ILE:HD12	45:TF:147:MET:O	2.16	0.45
45:TF:322:SER:O	45:TF:326:VAL:HG23	2.17	0.45
45:TF:330:MET:CE	45:TF:349:ILE:HG21	2.47	0.45
44:TI:6:SER:O	44:TI:7:ILE:HD13	2.17	0.45
44:TI:145:THR:HG22	46:TI:501:GTP:O2G	2.16	0.45
45:TJ:65:LEU:HD21	45:TJ:85:PHE:CE2	2.52	0.45
45:TJ:190:HIS:O	45:TJ:193:VAL:HG12	2.17	0.45
45:TJ:288:GLU:O	45:TJ:291:GLN:HG3	2.17	0.45
45:TJ:358:PRO:CD	45:TJ:364:ALA:HB2	2.46	0.45
44:TK:118:CYS:SG	44:TK:153:LEU:HD21	2.56	0.45
44:TK:152:LEU:O	44:TK:156:ARG:N	2.39	0.45
44:TK:226:ASN:HA	44:TK:229:ARG:NE	2.32	0.45
44:TK:288:VAL:HG13	44:TK:289:ALA:N	2.32	0.45
45:TL:190:HIS:HD2	45:TL:191:GLN:HG2	1.82	0.45
44:TM:108:TYR:HA	44:TM:112:LYS:HZ2	1.82	0.45
44:TM:141:VAL:CG2	44:TM:187:SER:HA	2.41	0.45
44:TM:187:SER:HA	44:TM:190:SER:OG	2.17	0.45
44:TM:285:GLN:OE1	44:TM:287:SER:HB2	2.16	0.45
45:TN:11:GLN:N	48:TN:501:GDP:O3B	2.42	0.45
45:TN:274:THR:HB	45:TN:282:ARG:HH11	1.81	0.45
45:TN:398:TYR:O	45:TN:403:MET:HB3	2.16	0.45
44:UA:141:VAL:CG1	44:UA:173:PRO:HD3	2.46	0.45
44:UA:269:LEU:HD23	44:UA:379:SER:O	2.17	0.45
45:UB:240:LEU:HB3	45:UB:241:ARG:NH1	2.31	0.45
45:UB:242:PHE:CD1	45:UB:356:ILE:HG21	2.51	0.45
45:UB:273:LEU:H	45:UB:292:GLN:NE2	2.15	0.45
44:UC:352:LYS:HD2	45:UD:178:THR:HA	1.99	0.45
45:UD:110:ALA:CA	45:UD:113:ILE:HG22	2.42	0.45
45:UD:306:ARG:HG3	45:UD:307:HIS:HD2	1.82	0.45
45:UF:7:ILE:H	45:UF:135:ILE:HD13	1.82	0.45
45:UF:132:GLY:HA3	45:UF:163:ILE:HG13	1.98	0.45
45:UF:250:LEU:HA	45:UF:253:LEU:HB2	1.99	0.45
45:UH:3:GLU:OE2	45:UH:128:ASP:N	2.47	0.45
45:UH:325:GLU:O	45:UH:329:GLN:OE1	2.35	0.45
45:UJ:345:ILE:CA	44:UK:398:MET:HE1	2.17	0.45
45:UJ:385:PHE:O	45:UJ:389:PHE:HB2	2.16	0.45
45:UL:107:THR:HG21	45:UL:401:GLU:OE2	2.16	0.45
45:UL:127:CYS:SG	45:UL:130:LEU:HD13	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UL:239:CYS:HA	45:UL:354:CYS:SG	2.57	0.45
45:UL:286:VAL:HB	45:UL:325:GLU:OE1	2.17	0.45
44:UM:272:TYR:HA	44:UM:376:CYS:HA	1.98	0.45
44:VA:221:ARG:HH21	45:VB:321:MET:CG	2.19	0.45
45:VB:170:VAL:O	45:VB:170:VAL:HG23	2.16	0.45
44:VC:50:ASN:HA	44:VC:53:PHE:O	2.17	0.45
44:VC:174:SER:CB	44:VC:177:VAL:HB	2.47	0.45
45:VD:272:PRO:HG2	45:VD:361:LEU:CD1	2.47	0.45
45:VD:396:HIS:HA	45:VD:399:THR:OG1	2.17	0.45
44:VE:84:ARG:CZ	44:VE:85:GLN:HE22	2.30	0.45
44:VE:105:ARG:O	44:VE:110:ILE:HG12	2.16	0.45
44:VE:202:VAL:HA	44:VE:268:MET:O	2.17	0.45
45:VF:286:VAL:N	45:VF:287:PRO:CD	2.80	0.45
45:VH:256:ASN:O	45:VH:257:LEU:HD12	2.17	0.45
45:VH:265:PHE:CE2	45:VH:418:LEU:HD21	2.52	0.45
44:VI:386:GLU:HA	44:VI:389:SER:OG	2.17	0.45
45:VJ:231:ALA:O	45:VJ:234:SER:N	2.50	0.45
45:VJ:283:ALA:O	45:VJ:288:GLU:HG3	2.17	0.45
45:VJ:401:GLU:O	45:VJ:403:MET:HE2	2.16	0.45
45:VL:134:GLN:HA	45:VL:165:GLU:O	2.16	0.45
44:VM:72:PRO:O	44:VM:75:ILE:HG22	2.17	0.45
44:VM:150:GLY:HA2	44:VM:153:LEU:HD12	1.99	0.45
44:VM:238:LEU:HD21	44:VM:255:PHE:CZ	2.52	0.45
45:VN:251:ARG:O	45:VN:254:ALA:HB3	2.17	0.45
44:WA:230:LEU:O	44:WA:234:VAL:HG23	2.17	0.45
45:WB:184:ASN:O	45:WB:187:LEU:N	2.49	0.45
44:WC:28:HIS:O	44:WC:30:ILE:HD12	2.16	0.45
44:WE:137:VAL:HG12	44:WE:167:LEU:O	2.16	0.45
44:WE:260:VAL:O	44:WE:260:VAL:HG23	2.17	0.45
45:WF:299:MET:HG3	45:WF:305:PRO:CG	2.36	0.45
44:WG:166:LYS:HE2	44:WG:197:HIS:O	2.16	0.45
44:WG:390:ARG:HG3	44:WG:391:LEU:N	2.31	0.45
44:WK:208:ALA:HB3	44:WK:302:MET:O	2.17	0.45
44:WK:394:LYS:NZ	45:WL:346:PRO:HG2	2.32	0.45
45:WL:18:ALA:O	45:WL:22:GLU:HG3	2.16	0.45
45:WL:253:LEU:O	45:WL:253:LEU:HD23	2.17	0.45
45:WL:412:GLU:OE1	45:WL:415:MET:HE2	2.17	0.45
44:WM:214:ARG:HD3	44:WM:219:ILE:C	2.37	0.45
44:WM:437:ILE:HG13	44:WM:437:ILE:O	2.15	0.45
8:OG:86:LEU:CB	45:JN:359:LYS:HE3	2.47	0.45
20:1J:273:TRP:HE1	45:IL:276:ARG:HD3	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1N:427:ARG:NE	44:II:42:ILE:HD11	2.32	0.45
16:1X:30:GLU:OE1	45:MH:276:ARG:NE	2.15	0.45
29:2F:36:THR:HG21	44:GC:77:GLU:OE2	2.16	0.45
32:2I:102:VAL:N	45:GF:306:ARG:HH22	2.13	0.45
24:2O:456:LEU:HD12	45:VB:280:GLN:HG2	1.98	0.45
27:2W:239:ARG:HH12	35:6R:5:LEU:CD2	2.29	0.45
6:3E:118:ARG:HH21	35:6R:581:THR:HG21	1.80	0.45
35:4R:85:TRP:CZ2	44:AE:372:MET:HE1	2.52	0.45
35:4R:389:ASN:CB	45:EF:276:ARG:HH12	2.30	0.45
37:5D:107:TYR:HD2	44:NM:278:ALA:HB3	1.80	0.45
38:5F:180:THR:O	38:5F:184:GLN:HG2	2.16	0.45
38:5F:212:THR:HB	38:5F:214:LEU:HD11	1.99	0.45
38:5G:157:ARG:HB3	38:5H:11:TRP:CZ3	2.52	0.45
11:5Q:78:MET:HE1	11:5Q:156:ILE:HD11	1.98	0.45
35:5R:255:VAL:HG13	44:CI:41:THR:HG23	1.99	0.45
35:5R:307:LYS:HG3	35:5R:308:LYS:N	2.31	0.45
35:5R:311:LYS:HB2	35:5R:311:LYS:HE3	1.69	0.45
36:5S:128:LEU:CB	36:5S:167:LYS:HZ2	2.28	0.45
41:6G:127:ILE:HG13	41:6G:128:LYS:N	2.32	0.45
35:6R:339:MET:SD	35:6R:346:ASP:HB3	2.57	0.45
35:6R:538:PHE:HB2	35:6R:578:TYR:CE2	2.52	0.45
35:7R:401:VAL:HG13	45:EB:276:ARG:HG3	1.99	0.45
35:7R:528:ILE:HA	35:7R:531:THR:OG1	2.16	0.45
43:8R:194:UNK:HA	43:8R:197:UNK:CB	2.47	0.45
44:AA:198:THR:HG22	44:AA:199:ASP:N	2.32	0.45
45:AB:345:ILE:O	45:AB:345:ILE:HG23	2.16	0.45
44:AC:80:THR:CB	44:AC:84:ARG:HH21	2.30	0.45
44:AC:377:MET:O	44:AC:378:ILE:HD13	2.17	0.45
44:AE:93:ILE:HD12	44:AE:93:ILE:H	1.81	0.45
44:AE:439:THR:CG2	45:AH:390:ARG:HE	2.30	0.45
44:AG:262:TYR:HA	45:AJ:396:HIS:NE2	2.32	0.45
44:AG:373:ARG:HD3	44:AG:373:ARG:N	2.32	0.45
45:AH:213:ARG:O	45:AH:216:LYS:HG2	2.17	0.45
44:AI:11:GLN:HE21	44:AI:74:VAL:HG11	1.82	0.45
44:AI:71:GLU:HG3	45:AJ:247:ASN:ND2	2.32	0.45
44:AI:122:ILE:HG22	44:AI:161:TYR:OH	2.17	0.45
44:AI:250:VAL:HG21	44:AI:318:MET:SD	2.57	0.45
45:AJ:16:ILE:CD1	45:AJ:229:VAL:HG11	2.41	0.45
45:AJ:105:HIS:ND1	45:AJ:105:HIS:O	2.50	0.45
44:AK:8:HIS:NE2	44:AK:17:GLY:HA3	2.31	0.45
45:AL:64:ILE:HG13	45:AL:89:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AL:215:LEU:HD12	45:AL:217:LEU:HD23	1.99	0.45
44:AM:34:GLY:HA3	44:AM:60:LYS:HB2	1.99	0.45
44:BA:210:TYR:HB3	45:BB:324:LYS:HD2	1.99	0.45
45:BD:32:PRO:HG3	45:BD:81:PHE:CE1	2.52	0.45
45:BD:390:ARG:O	45:BD:390:ARG:HG2	2.17	0.45
45:BF:304:ASP:OD2	45:BF:307:HIS:NE2	2.50	0.45
44:BG:129:CYS:CB	44:BG:132:LEU:CD2	2.94	0.45
44:BG:222:PRO:HG2	45:BH:324:LYS:HD3	1.99	0.45
45:BH:7:ILE:CD1	45:BH:120:VAL:HG22	2.46	0.45
44:BI:212:ILE:HD12	44:BI:300:ASN:HA	1.98	0.45
45:BJ:91:VAL:O	45:BJ:91:VAL:HG23	2.17	0.45
44:BK:176:GLN:HG3	45:BL:331:LEU:HD11	1.99	0.45
45:BL:67:ASP:OD2	45:BL:72:THR:HG21	2.17	0.45
45:BL:332:ASN:OD1	45:BL:336:LYS:NZ	2.44	0.45
44:BM:313:MET:SD	44:BM:382:THR:HG23	2.56	0.45
45:BN:12:CYS:SG	45:BN:138:SER:HB2	2.56	0.45
45:BN:44:LEU:HD12	45:BN:44:LEU:N	2.32	0.45
45:CB:6:HIS:O	45:CB:63:ALA:HA	2.17	0.45
45:CB:286:VAL:HG21	45:CB:325:GLU:HB3	1.99	0.45
44:CC:264:ARG:HE	44:CC:428:LEU:HD13	1.82	0.45
45:CD:200:MET:HE1	45:CD:268:ILE:HG21	1.99	0.45
45:CH:248:SER:CB	45:CH:252:LYS:HD2	2.47	0.45
45:CH:254:ALA:HB1	44:CI:407:TRP:HH2	1.82	0.45
44:CI:146:GLY:O	44:CI:150:GLY:N	2.48	0.45
44:CI:223:THR:HG23	44:CI:226:ASN:H	1.82	0.45
44:CI:258:ASN:ND2	45:CJ:179:VAL:HG22	2.29	0.45
45:CJ:179:VAL:HG23	45:CJ:180:VAL:HG23	1.99	0.45
45:CJ:330:MET:HE2	45:CJ:330:MET:HA	1.98	0.45
45:CJ:398:TYR:O	45:CJ:403:MET:HB3	2.16	0.45
45:CL:178:THR:HG22	45:CL:180:VAL:HG12	1.97	0.45
44:CM:107:HIS:ND1	44:CM:108:TYR:CE1	2.82	0.45
44:CM:319:TYR:HD1	44:CM:374:ALA:O	2.00	0.45
45:CN:149:THR:HA	45:CN:152:ILE:HG12	1.97	0.45
45:CN:192:LEU:CD1	45:CN:196:ALA:HB2	2.47	0.45
45:CN:358:PRO:HB2	45:CN:361:LEU:HD12	1.99	0.45
45:DB:322:SER:OG	44:DC:222:PRO:O	2.20	0.45
45:DB:361:LEU:HG	45:DB:362:LYS:H	1.82	0.45
45:DB:382:ALA:HB2	45:DB:415:MET:SD	2.57	0.45
44:DC:267:PHE:CD1	44:DC:388:PHE:HZ	2.34	0.45
45:DD:135:ILE:CD1	45:DD:152:ILE:HD11	2.46	0.45
45:DF:46:ARG:HH21	44:DG:73:THR:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:166:THR:HG21	45:DF:192:LEU:HD11	1.99	0.45
45:DF:274:THR:CG2	45:DF:282:ARG:HD3	2.44	0.45
44:DG:1:MET:HE1	45:DH:94:GLN:HB3	1.99	0.45
44:DG:170:THR:O	44:DG:171:ILE:HD13	2.17	0.45
44:DG:276:ILE:HD11	44:DG:280:LYS:O	2.16	0.45
44:DG:317:MET:HE2	44:DG:319:TYR:HE1	1.82	0.45
44:DI:132:LEU:HD23	44:DI:132:LEU:C	2.37	0.45
44:DI:392:ASP:OD1	44:DI:422:ARG:NH2	2.50	0.45
45:DJ:99:ASN:O	45:DJ:180:VAL:HG11	2.17	0.45
44:DK:132:LEU:HD22	44:DK:164:LYS:CD	2.28	0.45
44:DK:201:ALA:H	44:DK:268:MET:HE2	1.80	0.45
45:DL:309:ARG:NH2	45:DL:342:VAL:HG22	2.32	0.45
45:DL:378:PHE:H	45:DL:379:LYS:NZ	2.14	0.45
44:DM:346:TRP:C	44:DM:348:PRO:HD3	2.38	0.45
45:DN:70:PRO:O	45:DN:73:MET:N	2.50	0.45
45:DN:192:LEU:O	45:DN:196:ALA:HB2	2.17	0.45
45:EB:3:GLU:CB	45:EB:49:VAL:HG13	2.47	0.45
44:EC:72:PRO:HG3	44:EC:95:GLY:O	2.17	0.45
44:EC:203:MET:HE2	44:EC:269:LEU:HB3	1.98	0.45
44:EE:115:VAL:HG22	44:EE:119:LEU:CD2	2.44	0.45
45:EF:150:LEU:HD23	45:EF:154:LYS:HG2	1.98	0.45
45:EF:399:THR:HA	45:EF:403:MET:O	2.16	0.45
44:EG:64:ARG:HH11	44:EG:64:ARG:HG2	1.81	0.45
44:EG:183:GLU:HG2	44:EG:184:PRO:N	2.32	0.45
44:EG:196:GLU:OE2	44:EG:264:ARG:HD2	2.17	0.45
45:EH:8:GLN:HE22	45:EH:14:ASN:HA	1.81	0.45
45:EH:289:LEU:HD11	45:EH:363:MET:SD	2.57	0.45
45:EJ:36:TYR:CD1	45:EJ:44:LEU:HD21	2.52	0.45
45:EJ:54:ALA:CB	45:FJ:283:ALA:HB2	2.46	0.45
45:EL:153:SER:HA	45:EL:156:ARG:CZ	2.47	0.45
44:EM:314:ALA:N	44:EM:380:ASN:O	2.37	0.45
45:EN:265:PHE:O	45:EN:266:PHE:HD1	2.00	0.45
44:FA:69:ASP:O	44:FA:70:LEU:HD23	2.16	0.45
44:FA:259:LEU:HB3	44:FA:268:MET:SD	2.57	0.45
44:FC:22:GLU:OE2	44:FC:83:TYR:HE2	2.00	0.45
44:FC:200:VAL:HG13	44:FC:268:MET:SD	2.57	0.45
44:FC:270:SER:HB3	44:FC:378:ILE:CD1	2.47	0.45
45:FD:257:LEU:HD21	45:FD:314:SER:HB2	1.99	0.45
45:FF:73:MET:O	45:FF:76:VAL:HG12	2.17	0.45
45:FF:374:ILE:HG22	45:FF:422:TYR:CE2	2.51	0.45
44:FG:270:SER:HB2	44:FG:378:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:11:GLN:HG3	45:FH:72:THR:HB	1.98	0.45
45:FH:327:ASP:HA	45:FH:330:MET:HB3	1.99	0.45
45:FH:329:GLN:O	45:FH:333:VAL:HG23	2.17	0.45
45:FH:342:VAL:HG22	45:FH:344:TRP:CD1	2.52	0.45
44:FI:183:GLU:HG2	44:FI:184:PRO:CD	2.47	0.45
44:FI:313:MET:HG3	44:FI:346:TRP:CZ2	2.52	0.45
45:FJ:193:VAL:HA	45:FJ:264:HIS:NE2	2.30	0.45
45:FL:73:MET:CE	45:FL:92:PHE:HB3	2.42	0.45
45:FN:86:ARG:CZ	45:GN:278:SER:HA	2.47	0.45
45:FN:312:THR:HG22	45:FN:370:ASN:HB3	1.98	0.45
45:FN:389:PHE:O	45:FN:392:LYS:N	2.42	0.45
45:FN:403:MET:HB2	45:FN:407:GLU:OE2	2.17	0.45
44:GA:156:ARG:C	44:GA:159:VAL:HG12	2.36	0.45
44:GA:269:LEU:HD23	44:GA:379:SER:O	2.17	0.45
44:GA:326:LYS:HA	44:GA:329:ASN:OD1	2.17	0.45
44:GA:346:TRP:C	45:GD:388:MET:HE1	2.37	0.45
45:GB:60:VAL:CG2	45:GB:86:ARG:HG2	2.44	0.45
45:GB:210:ILE:CD1	45:GB:300:MET:HG2	2.47	0.45
44:GC:116:ASP:O	44:GC:120:ASP:N	2.33	0.45
44:GC:181:VAL:HG22	45:GD:256:ASN:ND2	2.32	0.45
45:GD:113:ILE:CD1	45:GD:150:LEU:HD22	2.46	0.45
44:GE:373:ARG:HG3	44:GE:373:ARG:HH11	1.82	0.45
44:GG:213:CYS:CB	44:GG:217:LEU:HD12	2.47	0.45
45:GH:143:THR:HG22	48:GH:502:GDP:O2B	2.17	0.45
45:GH:161:ASP:OD1	45:GH:161:ASP:N	2.49	0.45
45:GH:228:LEU:HD23	45:GH:228:LEU:C	2.37	0.45
44:GI:335:ILE:HD11	44:GI:341:ILE:CD1	2.47	0.45
44:GI:363:VAL:CG2	44:GI:364:PRO:HD2	2.46	0.45
45:GJ:131:GLN:HG3	45:GJ:163:ILE:HD11	1.99	0.45
45:GJ:260:PHE:HB3	45:GJ:261:PRO:HD2	1.99	0.45
44:GK:39:ASP:HA	44:GK:42:ILE:HG23	1.99	0.45
44:GK:250:VAL:HG11	44:GK:318:MET:HE1	1.99	0.45
44:GK:393:HIS:ND1	44:GK:397:LEU:HD11	2.31	0.45
45:GL:267:MET:HE2	45:GL:299:MET:CG	2.47	0.45
44:GM:53:PHE:CE2	44:GM:63:PRO:HG3	2.50	0.45
44:GM:100:ALA:HB1	45:GN:252:LYS:CA	2.46	0.45
45:GN:73:MET:HA	45:GN:76:VAL:HG12	1.99	0.45
45:GN:312:THR:OG1	45:GN:348:ASN:O	2.25	0.45
44:HA:291:ILE:O	44:HA:294:SER:HB2	2.17	0.45
45:HB:274:THR:HG22	45:HB:275:SER:O	2.16	0.45
44:HC:191:THR:CA	44:HC:194:LEU:HG	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:291:ILE:HG13	44:HC:292:THR:N	2.32	0.45
44:HC:390:ARG:HG3	44:HC:391:LEU:H	1.82	0.45
45:HD:3:GLU:O	45:HD:131:GLN:HB3	2.16	0.45
45:HD:149:THR:HG23	45:HD:150:LEU:N	2.31	0.45
45:HF:178:THR:CG2	45:HF:181:GLU:HG3	2.46	0.45
45:HF:232:ALA:O	45:HF:236:VAL:HG23	2.17	0.45
45:HF:377:MET:O	45:HF:380:ARG:HG2	2.16	0.45
45:HH:151:LEU:HD23	45:HH:151:LEU:C	2.37	0.45
45:HH:162:ARG:HG3	45:HH:163:ILE:H	1.82	0.45
45:HJ:36:TYR:CD1	45:HJ:44:LEU:HD11	2.52	0.45
44:HK:15:GLN:O	44:HK:19:ALA:N	2.40	0.45
44:HK:383:ALA:O	44:HK:386:GLU:HG2	2.16	0.45
44:HM:223:THR:HB	45:HN:322:SER:OG	2.17	0.45
44:IA:70:LEU:CD2	44:IA:114:ILE:HD13	2.46	0.45
44:IA:182:VAL:HG12	45:IB:256:ASN:HD21	1.82	0.45
45:IB:135:ILE:CB	45:IB:166:THR:HG22	2.38	0.45
45:IB:149:THR:HG23	45:IB:150:LEU:N	2.32	0.45
45:IB:187:LEU:HD11	45:IB:408:PHE:HE1	1.81	0.45
44:IC:205:ASP:OD2	44:IC:304:LYS:N	2.44	0.45
44:IC:385:ALA:HB2	44:IC:432:TYR:CD2	2.52	0.45
45:ID:164:MET:HE1	45:ID:196:ALA:HA	1.99	0.45
45:ID:330:MET:O	45:ID:333:VAL:HG12	2.16	0.45
44:IE:11:GLN:HB3	46:IE:501:GTP:O2B	2.16	0.45
45:IF:286:VAL:N	45:IF:287:PRO:CD	2.80	0.45
44:IG:284:GLU:HG3	44:IG:286:LEU:HD21	1.98	0.45
45:IH:68:LEU:HD12	45:IH:97:ALA:HB2	1.99	0.45
45:IH:274:THR:HG21	45:IH:279:GLN:CG	2.43	0.45
44:II:198:THR:HG22	44:II:199:ASP:N	2.32	0.45
44:IK:215:ARG:NH2	44:IK:300:ASN:OD1	2.50	0.45
45:IL:91:VAL:HG23	45:IL:91:VAL:O	2.16	0.45
45:IL:309:ARG:HG2	45:IL:340:TYR:C	2.37	0.45
44:IM:175:PRO:HG3	44:IM:390:ARG:CD	2.47	0.45
44:IM:243:ARG:HG3	44:IM:244:PHE:CD2	2.51	0.45
44:IM:433:GLU:O	44:IM:437:ILE:HG23	2.17	0.45
45:IN:48:ASN:OD1	45:IN:49:VAL:N	2.49	0.45
45:IN:189:VAL:O	45:IN:193:VAL:HG12	2.17	0.45
45:JD:178:THR:HB	45:JD:181:GLU:HG2	1.98	0.45
45:JD:213:ARG:HD2	45:JD:213:ARG:O	2.17	0.45
44:JE:392:ASP:OD2	44:JE:422:ARG:CZ	2.65	0.45
44:JG:285:GLN:O	44:JG:286:LEU:HG	2.17	0.45
45:JH:105:HIS:NE2	45:JH:150:LEU:HD13	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JI:183:GLU:CG	44:JI:184:PRO:HD3	2.47	0.45
44:JI:390:ARG:HG3	44:JI:391:LEU:CD2	2.43	0.45
45:JJ:165:GLU:HG2	45:JJ:198:GLU:OE1	2.17	0.45
45:JJ:237:THR:HG23	45:JJ:241:ARG:HE	1.81	0.45
46:JM:501:GTP:O2A	46:JM:501:GTP:O4'	2.34	0.45
45:JN:4:ILE:HD11	45:JN:50:TYR:OH	2.15	0.45
45:JN:319:GLY:HA2	45:JN:355:ASP:O	2.16	0.45
45:KB:7:ILE:HG23	45:KB:66:MET:HE3	1.98	0.45
45:KB:253:LEU:CD2	45:KB:350:LYS:HE2	2.47	0.45
45:KD:20:PHE:CE2	45:KD:233:MET:CE	3.00	0.45
45:KD:286:VAL:N	45:KD:287:PRO:CD	2.80	0.45
44:KE:20:CYS:SG	44:KE:21:TRP:N	2.90	0.45
44:KE:326:LYS:HB2	45:KH:212:PHE:HZ	1.82	0.45
45:KF:2:ARG:HB2	45:KF:131:GLN:HG2	1.99	0.45
45:KF:186:THR:HG23	45:KF:187:LEU:N	2.32	0.45
44:KG:205:ASP:CG	44:KG:304:LYS:H	2.13	0.45
44:KG:259:LEU:HD21	44:KG:316:SER:HB3	1.99	0.45
45:KH:218:THR:HG23	45:KH:219:THR:N	2.32	0.45
44:KI:141:VAL:HG11	44:KI:172:TYR:HE1	1.80	0.45
45:KJ:167:PHE:HE1	45:KJ:200:MET:CE	2.30	0.45
45:KJ:233:MET:O	45:KJ:236:VAL:HG12	2.17	0.45
45:KJ:257:LEU:HD21	45:KJ:314:SER:OG	2.17	0.45
44:KK:11:GLN:HB3	46:KK:501:GTP:O1A	2.17	0.45
44:KK:322:ASP:OD1	44:KK:373:ARG:HG3	2.17	0.45
44:KM:170:THR:O	44:KM:204:LEU:HB2	2.17	0.45
44:KM:344:VAL:HG11	44:KM:346:TRP:CD2	2.51	0.45
45:KN:3:GLU:CG	45:KN:127:CYS:HB2	2.47	0.45
45:KN:62:ARG:HG3	45:KN:123:GLU:CD	2.36	0.45
45:KN:173:PRO:HD2	45:KN:380:ARG:HH12	1.81	0.45
44:LA:137:VAL:O	44:LA:137:VAL:HG13	2.17	0.45
44:LA:311:LYS:HG3	44:LA:342:GLN:CD	2.36	0.45
45:LB:64:ILE:HA	45:LB:89:ASN:HB3	1.99	0.45
45:LB:180:VAL:HG22	45:LB:180:VAL:O	2.17	0.45
44:LC:232:ALA:O	44:LC:235:ILE:HG22	2.15	0.45
45:LD:60:VAL:O	45:LD:60:VAL:HG23	2.16	0.45
45:LD:248:SER:OG	45:LD:316:LEU:HD11	2.17	0.45
44:LE:45:GLY:HA2	44:LE:46:ASP:HA	1.98	0.45
44:LE:262:TYR:OH	45:LH:391:ARG:O	2.35	0.45
45:LF:20:PHE:O	45:LF:24:ILE:HG12	2.16	0.45
45:LF:117:LEU:O	45:LF:120:VAL:HG12	2.16	0.45
45:LF:290:THR:HG22	45:LF:329:GLN:NE2	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LG:100:ALA:HA	45:LH:252:LYS:HB2	1.99	0.45
44:LG:106:GLY:O	44:LG:149:LEU:HD22	2.17	0.45
44:LG:190:SER:O	44:LG:193:SER:N	2.49	0.45
44:LI:51:THR:HG23	44:LI:52:PHE:N	2.31	0.45
44:LI:67:PHE:HB2	44:LI:92:LEU:HD23	1.98	0.45
45:LJ:135:ILE:O	45:LJ:166:THR:HA	2.16	0.45
45:LJ:286:VAL:HG23	45:LJ:321:MET:CE	2.46	0.45
44:LK:102:ASN:ND2	44:LK:407:TRP:O	2.48	0.45
45:LL:368:VAL:HG13	45:LL:368:VAL:O	2.16	0.45
44:LM:177:VAL:O	44:LM:177:VAL:HG12	2.17	0.45
45:LN:101:TRP:CZ3	45:LN:187:LEU:HB3	2.52	0.45
45:LN:315:ALA:C	45:LN:316:LEU:HD12	2.38	0.45
44:MA:31:GLN:HB3	44:MA:32:PRO:HD2	1.98	0.45
45:MB:305:PRO:HB2	45:MB:310:TYR:OH	2.16	0.45
44:MC:135:PHE:CZ	44:MC:161:TYR:HE2	2.35	0.45
44:MC:316:SER:HA	44:MC:352:LYS:H	1.82	0.45
44:MC:340:THR:O	44:MC:341:ILE:HD13	2.17	0.45
45:MD:12:CYS:CB	45:MD:138:SER:HG	2.30	0.45
45:MD:238:CYS:HB3	45:MD:318:ARG:HH21	1.82	0.45
44:ME:393:HIS:N	44:ME:425:LEU:HD21	2.32	0.45
45:MF:65:LEU:HD22	45:MF:90:PHE:CE1	2.52	0.45
45:MF:242:PHE:CD2	45:MF:356:ILE:HD12	2.52	0.45
45:MF:308:GLY:HA3	45:MF:372:THR:CG2	2.47	0.45
45:MH:32:PRO:HG3	45:MH:81:PHE:CZ	2.52	0.45
45:MH:217:LEU:HD11	45:MH:220:PRO:CB	2.44	0.45
45:MJ:65:LEU:HD21	45:MJ:85:PHE:HE2	1.81	0.45
44:MK:274:PRO:O	44:MK:275:ILE:HD13	2.17	0.45
44:MK:288:VAL:CG1	44:MK:327:ASP:HB3	2.38	0.45
45:ML:3:GLU:CD	45:ML:127:CYS:HB2	2.37	0.45
45:ML:99:ASN:CA	45:ML:142:GLY:HA3	2.39	0.45
45:MN:34:GLY:HA3	45:MN:58:ARG:CB	2.43	0.45
45:MN:100:ASN:O	45:MN:103:LYS:N	2.50	0.45
45:MN:207:LEU:O	45:MN:210:ILE:N	2.50	0.45
45:NB:11:GLN:HB3	48:NB:501:GDP:O1A	2.16	0.45
45:NB:316:LEU:HA	45:NB:352:SER:HB2	1.99	0.45
44:NC:175:PRO:CG	44:NC:304:LYS:HD3	2.43	0.45
45:ND:268:ILE:C	45:ND:300:MET:HE3	2.37	0.45
44:NE:402:ARG:HG3	44:NE:405:VAL:HG11	1.98	0.45
44:NE:418:PHE:O	44:NE:421:ALA:N	2.50	0.45
45:NF:173:PRO:HD3	45:NF:380:ARG:CD	2.47	0.45
45:NF:202:ILE:HD11	45:NF:268:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NF:256:ASN:C	45:NF:257:LEU:HD12	2.37	0.45
45:NH:1:MET:O	45:NH:2:ARG:HG2	2.17	0.45
44:NI:109:THR:HG21	44:NI:411:GLU:HB3	1.98	0.45
44:NI:165:SER:O	44:NI:166:LYS:HG3	2.16	0.45
44:NI:384:ILE:HG23	44:NI:432:TYR:CE2	2.51	0.45
45:NJ:36:TYR:O	45:NJ:37:HIS:HD2	2.00	0.45
44:NK:60:LYS:HD2	44:OK:282:TYR:CE2	2.51	0.45
44:NM:215:ARG:NH2	44:NM:299:ALA:HB1	2.31	0.45
45:OB:24:ILE:H	45:OB:24:ILE:HD12	1.82	0.45
45:OB:169:VAL:HG22	45:OB:202:ILE:HG23	1.98	0.45
45:OB:328:GLU:C	45:OB:331:LEU:H	2.20	0.45
45:OB:345:ILE:O	45:OB:345:ILE:HG13	2.16	0.45
44:OC:115:VAL:HG13	44:OC:116:ASP:N	2.32	0.45
45:OD:227:HIS:O	45:OD:230:SER:HB2	2.17	0.45
44:OE:21:TRP:CZ2	44:OE:65:ALA:HB2	2.52	0.45
44:OE:375:VAL:HG13	44:OE:377:MET:HE3	1.98	0.45
44:OE:385:ALA:HB2	44:OE:432:TYR:HD2	1.81	0.45
45:OF:313:ALA:O	45:OF:349:ILE:HD12	2.17	0.45
44:OG:234:VAL:HG22	44:OG:272:TYR:HD1	1.82	0.45
44:OG:274:PRO:HD2	44:OG:374:ALA:CB	2.47	0.45
44:OG:285:GLN:HG3	44:OG:287:SER:HB3	1.98	0.45
45:OH:267:MET:HE1	45:OH:301:CYS:SG	2.57	0.45
44:OK:250:VAL:HG12	44:OK:255:PHE:CE1	2.51	0.45
45:OL:418:LEU:HA	45:OL:421:GLU:OE2	2.16	0.45
44:OM:25:CYS:HG	44:OM:53:PHE:HZ	1.64	0.45
45:ON:26:ASP:OD1	45:ON:27:GLU:N	2.49	0.45
44:PA:10:GLY:HA2	44:PA:69:ASP:CG	2.38	0.45
44:PA:68:LEU:HD21	44:PA:118:CYS:CB	2.38	0.45
44:PC:102:ASN:O	44:PC:105:ARG:HB2	2.17	0.45
44:PC:288:VAL:HG13	44:PC:289:ALA:N	2.31	0.45
45:PD:64:ILE:HG12	45:PD:119:VAL:CG1	2.47	0.45
45:PD:272:PRO:HB3	45:PD:282:ARG:NH2	2.31	0.45
45:PD:314:SER:O	45:PD:368:VAL:N	2.42	0.45
45:PD:318:ARG:CD	45:PD:358:PRO:HD3	2.43	0.45
45:PD:385:PHE:HE2	45:PD:412:GLU:HB2	1.78	0.45
45:PF:24:ILE:H	45:PF:24:ILE:HD12	1.82	0.45
45:PF:86:ARG:NE	45:PF:87:PRO:HD2	2.30	0.45
45:PF:87:PRO:CA	45:PF:90:PHE:HB2	2.47	0.45
44:PG:320:ARG:NE	44:PG:360:PRO:HD3	2.32	0.45
45:PH:19:LYS:HG3	45:PH:23:VAL:HG23	1.98	0.45
44:PK:288:VAL:HB	44:PK:373:ARG:NH2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:256:ASN:HD22	45:PL:350:LYS:HE3	1.80	0.45
45:PL:299:MET:CG	45:PL:305:PRO:HG3	2.43	0.45
44:PM:328:VAL:HG11	44:PM:353:VAL:CG2	2.38	0.45
44:PM:404:PHE:CE2	45:PN:259:PRO:HB3	2.52	0.45
45:PN:189:VAL:HG11	45:PN:415:MET:CG	2.47	0.45
44:QA:11:GLN:HB3	46:QA:501:GTP:PA	2.56	0.45
44:QA:205:ASP:OD2	44:QA:304:LYS:N	2.39	0.45
45:QB:268:ILE:HG13	45:QB:300:MET:CE	2.43	0.45
44:QC:171:ILE:HG21	46:QC:501:GTP:N2	2.29	0.45
44:QC:209:ILE:O	44:QC:212:ILE:HB	2.16	0.45
45:QD:72:THR:O	45:QD:76:VAL:HB	2.17	0.45
45:QF:207:LEU:CD1	45:QF:225:LEU:HD22	2.46	0.45
45:QF:290:THR:HA	45:QF:293:MET:SD	2.57	0.45
44:QG:248:LEU:HD23	44:QG:354:GLY:HA2	1.98	0.45
44:QG:248:LEU:HB3	44:QG:355:ILE:HD12	1.99	0.45
45:QH:2:ARG:HG3	45:QH:240:LEU:HD21	1.99	0.45
45:QH:136:THR:HG22	45:QH:167:PHE:CD2	2.52	0.45
45:QH:240:LEU:HD23	45:QH:240:LEU:O	2.16	0.45
45:QJ:287:PRO:O	45:QJ:290:THR:HG22	2.16	0.45
44:QK:190:SER:O	44:QK:194:LEU:N	2.38	0.45
44:QM:26:LEU:HD21	44:QM:364:PRO:HD2	1.99	0.45
45:QN:66:MET:HA	45:QN:91:VAL:HG23	1.99	0.45
45:QN:304:ASP:OD1	45:QN:306:ARG:HG2	2.17	0.45
45:QN:392:LYS:HG3	45:QN:395:LEU:CD2	2.47	0.45
44:RA:107:HIS:CE1	44:RA:151:SER:HB2	2.52	0.45
45:RB:201:VAL:O	45:RB:202:ILE:HD13	2.17	0.45
44:RC:258:ASN:HD21	45:RD:178:THR:HG23	1.82	0.45
44:RC:296:PHE:CD2	44:RC:335:ILE:HD12	2.50	0.45
45:RD:192:LEU:HD23	45:RD:199:CYS:SG	2.57	0.45
45:RD:323:THR:HG21	44:RE:224:TYR:CE1	2.51	0.45
45:RD:331:LEU:HD21	44:RE:176:GLN:CG	2.46	0.45
44:RE:311:LYS:HZ3	44:RE:344:VAL:HG23	1.82	0.45
45:RF:131:GLN:OE1	45:RF:240:LEU:HD11	2.17	0.45
45:RF:170:VAL:HG23	45:RF:203:ASP:OD1	2.16	0.45
45:RF:324:LYS:HA	44:RG:210:TYR:CE2	2.51	0.45
44:RG:1:MET:SD	45:RH:94:GLN:NE2	2.90	0.45
44:RG:269:LEU:O	44:RG:269:LEU:HG	2.17	0.45
44:RG:291:ILE:HB	44:RG:375:VAL:HG11	1.99	0.45
44:RG:326:LYS:HB2	45:RH:212:PHE:HZ	1.79	0.45
45:RH:62:ARG:O	45:RH:62:ARG:HG2	2.17	0.45
45:RH:68:LEU:HD13	45:RH:147:MET:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:254:ALA:O	44:RI:407:TRP:HH2	2.00	0.45
45:RH:386:THR:HG23	45:RH:387:ALA:N	2.32	0.45
44:RI:134:GLY:HA2	44:RI:164:LYS:HD2	1.99	0.45
44:RI:258:ASN:HD22	44:RI:352:LYS:CG	2.30	0.45
45:RJ:51:TYR:CE1	45:RJ:61:PRO:HG3	2.52	0.45
45:RJ:267:MET:HG3	45:RJ:369:GLY:HA3	1.99	0.45
45:RJ:274:THR:HB	45:RJ:282:ARG:NH1	2.32	0.45
44:RK:317:MET:SD	44:RK:377:MET:HG3	2.57	0.45
45:RL:25:SER:O	45:RL:30:ILE:HD12	2.17	0.45
45:RL:99:ASN:HA	45:RL:142:GLY:CA	2.45	0.45
44:RM:185:TYR:CE1	44:RM:398:MET:HB2	2.52	0.45
45:RN:73:MET:O	45:RN:76:VAL:HG12	2.17	0.45
45:RN:221:THR:HG22	45:RN:224:ASP:CG	2.37	0.45
44:SA:12:GLY:O	44:SA:16:VAL:HG12	2.17	0.45
45:SB:7:ILE:HA	45:SB:64:ILE:O	2.16	0.45
45:SB:240:LEU:CD1	45:SB:250:LEU:HG	2.46	0.45
44:SC:172:TYR:HB3	44:SC:173:PRO:HD2	1.97	0.45
44:SC:183:GLU:HG2	44:SC:184:PRO:CD	2.46	0.45
44:SC:323:VAL:HG21	44:SC:328:VAL:HG23	1.97	0.45
45:SD:398:TYR:HD1	45:SD:403:MET:HE1	1.82	0.45
44:SE:22:GLU:HG3	44:SE:83:TYR:OH	2.16	0.45
44:SG:1:MET:C	44:SG:2:ARG:HD3	2.37	0.45
45:SH:192:LEU:HD12	45:SH:196:ALA:HB2	1.99	0.45
44:SK:123:ARG:O	44:SK:126:ALA:HB3	2.17	0.45
44:SK:350:GLY:C	45:SL:179:VAL:HG12	2.36	0.45
44:SM:55:GLU:HA	44:SM:61:HIS:CD2	2.52	0.45
44:SM:248:LEU:HD21	44:SM:353:VAL:HG13	1.99	0.45
45:SN:47:ILE:CG2	45:SN:59:TYR:HE2	2.29	0.45
45:SN:157:GLU:HB3	45:SN:158:GLU:OE2	2.17	0.45
45:SN:292:GLN:C	45:SN:298:ASN:HD22	2.18	0.45
45:SN:415:MET:O	45:SN:419:VAL:HG23	2.16	0.45
44:TA:12:GLY:HA2	46:TA:501:GTP:N7	2.31	0.45
45:TB:1:MET:C	45:TB:2:ARG:HG2	2.36	0.45
44:TC:115:VAL:O	44:TC:119:LEU:HD23	2.17	0.45
45:TD:103:LYS:HG3	45:TD:107:THR:OG1	2.17	0.45
45:TD:405:GLU:HG2	45:TD:406:MET:N	2.32	0.45
44:TE:93:ILE:HG12	44:TE:117:LEU:O	2.17	0.45
44:TE:319:TYR:N	44:TE:375:VAL:HG23	2.31	0.45
45:TF:343:GLU:OE2	45:TF:430:ALA:HB3	2.17	0.45
44:TG:420:GLU:HA	44:TG:423:GLU:CD	2.38	0.45
45:TH:112:LEU:O	45:TH:112:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:173:PRO:HG3	45:TH:384:GLN:NE2	2.32	0.45
45:TH:310:TYR:HD1	45:TH:370:ASN:O	2.00	0.45
44:TI:323:VAL:HG12	44:TI:373:ARG:HD3	1.98	0.45
44:TK:133:GLN:O	44:TK:165:SER:OG	2.32	0.45
44:TK:313:MET:CE	44:TK:380:ASN:HB3	2.44	0.45
44:TK:371:VAL:HG23	44:TK:373:ARG:O	2.17	0.45
44:TK:390:ARG:O	44:TK:394:LYS:HG3	2.16	0.45
45:TL:286:VAL:HB	45:TL:287:PRO:HD3	1.98	0.45
44:TM:54:SER:HB3	44:TM:64:ARG:NH1	2.32	0.45
44:TM:73:THR:O	44:TM:76:ASP:HB2	2.17	0.45
44:TM:82:THR:HG23	44:TM:83:TYR:CD1	2.51	0.45
44:TM:88:HIS:H	44:TM:91:GLN:NE2	2.15	0.45
44:TM:155:GLU:HA	44:TM:197:HIS:CE1	2.52	0.45
44:TM:437:ILE:HG13	44:TM:437:ILE:O	2.16	0.45
45:TN:297:LYS:HA	45:TN:297:LYS:CE	2.28	0.45
44:UA:75:ILE:CG2	44:UA:94:SER:HB2	2.41	0.45
44:UA:183:GLU:HG2	44:UA:184:PRO:CD	2.47	0.45
45:UB:101:TRP:HB2	45:UB:184:ASN:CB	2.47	0.45
45:UB:256:ASN:ND2	44:UC:180:ALA:HB1	2.27	0.45
45:UB:324:LYS:HD3	44:UC:222:PRO:HG2	1.98	0.45
44:UC:91:GLN:HG3	44:UC:92:LEU:HD12	1.99	0.45
45:UD:42:LEU:HD13	45:UD:45:GLU:CD	2.36	0.45
44:UE:137:VAL:CG1	44:UE:168:GLY:HA2	2.47	0.45
44:UE:240:ALA:CB	44:UE:356:ASN:HD22	2.30	0.45
44:UK:212:ILE:HG23	44:UK:275:ILE:HD13	1.99	0.45
44:UK:288:VAL:HG13	44:UK:331:SER:OG	2.17	0.45
45:UL:334:GLN:HE22	45:UL:348:ASN:H	1.65	0.45
44:UM:229:ARG:O	44:UM:232:ALA:HB3	2.17	0.45
45:UN:68:LEU:CB	45:UN:96:GLY:HA2	2.41	0.45
45:UN:102:ALA:HB3	45:UN:401:GLU:OE1	2.17	0.45
44:VA:73:THR:HB	45:VB:247:ASN:HD22	1.80	0.45
44:VA:82:THR:HG23	44:VA:83:TYR:CD1	2.52	0.45
45:VB:22:GLU:HA	45:VB:81:PHE:CE2	2.52	0.45
45:VB:141:GLY:HA3	48:VB:502:GDP:O2A	2.16	0.45
45:VB:317:PHE:CD2	45:VB:365:VAL:HG11	2.52	0.45
45:VB:391:ARG:HA	45:VB:391:ARG:HD2	1.72	0.45
44:VC:13:GLY:O	44:VC:17:GLY:N	2.48	0.45
44:VC:151:SER:HB3	44:VC:193:SER:CB	2.47	0.45
44:VC:326:LYS:HB2	45:VF:212:PHE:HZ	1.82	0.45
45:VD:12:CYS:SG	45:VD:138:SER:HB2	2.56	0.45
45:VD:97:ALA:HA	45:VD:103:LYS:CG	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:46:ASP:O	44:VE:47:ASP:OD1	2.35	0.45
44:VE:145:THR:HG22	46:VE:501:GTP:O2G	2.17	0.45
44:VE:278:ALA:N	44:VE:369:ALA:HB2	2.32	0.45
45:VF:87:PRO:HD2	45:WF:281:TYR:CD2	2.52	0.45
45:VH:255:VAL:O	45:VH:255:VAL:HG12	2.17	0.45
44:VI:14:ILE:HD13	44:VI:75:ILE:CD1	2.46	0.45
44:VI:195:LEU:HD21	44:VI:428:LEU:HD12	1.97	0.45
44:VI:250:VAL:O	44:VI:250:VAL:HG23	2.17	0.45
45:VJ:404:ASP:OD1	45:VJ:406:MET:HB2	2.16	0.45
44:VK:3:GLU:N	44:VK:3:GLU:OE2	2.49	0.45
44:VK:122:ILE:HG21	44:VK:157:LEU:CD2	2.46	0.45
45:VL:135:ILE:HB	45:VL:166:THR:CG2	2.26	0.45
45:VL:326:VAL:O	45:VL:330:MET:HG2	2.16	0.45
44:VM:88:HIS:HB3	44:VM:91:GLN:CD	2.38	0.45
44:VM:312:TYR:HE1	44:VM:379:SER:OG	2.00	0.45
44:VM:313:MET:HG2	44:VM:380:ASN:O	2.16	0.45
44:WA:11:GLN:CB	46:WA:501:GTP:PB	3.05	0.45
45:WB:162:ARG:NE	45:WB:162:ARG:HA	2.32	0.45
44:WC:88:HIS:HB3	44:WC:91:GLN:CG	2.47	0.45
44:WC:294:SER:HA	44:WC:297:GLU:HG3	1.99	0.45
44:WC:301:MET:HE1	44:WC:307:PRO:HB3	1.96	0.45
45:WD:9:GLY:HA2	45:WD:66:MET:O	2.17	0.45
45:WD:151:LEU:HD23	45:WD:151:LEU:C	2.37	0.45
45:WD:308:GLY:HA3	45:WD:372:THR:HG23	1.99	0.45
44:WE:350:GLY:O	45:WH:179:VAL:HG12	2.17	0.45
44:WE:404:PHE:CE1	45:WF:259:PRO:HB3	2.52	0.45
45:WH:170:VAL:HG12	45:WH:201:VAL:CG2	2.46	0.45
44:WI:112:LYS:O	44:WI:115:VAL:HG12	2.17	0.45
44:WI:176:GLN:NE2	44:WI:207:GLU:OE2	2.50	0.45
44:WI:319:TYR:CD2	44:WI:323:VAL:HG21	2.52	0.45
44:WK:51:THR:HG22	44:WK:52:PHE:CD2	2.52	0.45
44:WK:118:CYS:O	44:WK:122:ILE:HD12	2.17	0.45
45:WL:42:LEU:HD22	45:WL:356:ILE:HD11	1.98	0.45
44:WM:214:ARG:NH1	44:WM:218:ASP:O	2.49	0.45
44:WM:319:TYR:HB3	44:WM:323:VAL:HG11	1.98	0.45
1:6H:211:MET:SD	45:FD:227:HIS:NE2	2.58	0.45
3:0B:212:SER:O	44:JI:46:ASP:HA	2.17	0.45
3:0B:318:VAL:CG1	45:KL:77:ARG:HG3	2.47	0.45
3:0B:326:VAL:CG2	45:LL:174:LYS:HE3	2.46	0.45
7:0F:49:GLY:N	44:EE:221:ARG:O	2.43	0.45
5:1D:85:VAL:HG12	45:EF:355:ASP:CG	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1G:147:HIS:HE2	44:KA:278:ALA:HB1	1.81	0.45
20:1J:198:ARG:HG2	44:IG:372:MET:SD	2.57	0.45
20:1J:273:TRP:HE1	45:IL:276:ARG:CG	2.30	0.45
20:1J:315:PHE:N	44:IK:372:MET:HE1	2.32	0.45
5:2D:90:TYR:HE2	44:EK:18:ASN:OD1	2.00	0.45
25:2P:435:LEU:HD12	44:TK:370:LYS:HE3	1.99	0.45
15:3V:67:PHE:O	45:MB:339:SER:HB2	2.17	0.45
37:5D:23:LEU:HD13	45:KN:408:PHE:HB3	1.97	0.45
38:5F:165:PRO:O	38:5F:166:ARG:HD2	2.17	0.45
11:5Q:74:PRO:HD2	11:5Q:169:ASP:CB	2.42	0.45
35:5R:257:SER:HA	35:5R:276:LEU:O	2.17	0.45
35:5R:444:ILE:HD11	35:5R:503:PHE:CD2	2.52	0.45
35:5R:544:SER:O	35:5R:547:GLU:N	2.50	0.45
41:6G:167:ILE:HG12	45:VH:175:VAL:HG11	1.98	0.45
41:6G:268:VAL:HG21	44:VA:340:THR:H	1.81	0.45
11:6Q:148:TYR:O	11:6Q:149:ILE:HD13	2.17	0.45
35:6R:36:ASN:OD1	35:6R:36:ASN:N	2.50	0.45
35:6R:389:ASN:N	45:EN:276:ARG:CZ	2.76	0.45
42:8L:402:UNK:O	42:8L:406:UNK:N	2.50	0.45
44:AA:7:ILE:HD11	44:AA:68:LEU:HD13	1.99	0.45
44:AA:29:GLY:CA	44:AA:42:ILE:HD11	2.47	0.45
44:AA:271:SER:O	44:AA:272:TYR:N	2.50	0.45
44:AA:387:VAL:HG13	44:AA:388:PHE:N	2.32	0.45
45:AB:6:HIS:HA	45:AB:134:GLN:HG3	1.99	0.45
45:AB:47:ILE:HD11	45:AB:51:TYR:CD2	2.52	0.45
45:AD:150:LEU:HD23	45:AD:150:LEU:O	2.17	0.45
44:AE:229:ARG:HD3	44:AE:363:VAL:CG1	2.47	0.45
45:AF:189:VAL:O	45:AF:193:VAL:HG12	2.16	0.45
44:AG:251:ASP:H	44:AG:254:GLU:CG	2.29	0.45
44:AI:130:THR:HG23	44:AI:131:GLY:N	2.32	0.45
45:AJ:4:ILE:HG13	45:AJ:4:ILE:O	2.17	0.45
44:AK:99:ALA:HB3	44:AK:145:THR:HB	1.98	0.45
44:AK:145:THR:HG23	44:AK:146:GLY:N	2.31	0.45
44:AK:291:ILE:HG13	44:AK:292:THR:N	2.32	0.45
44:AM:256:GLN:HE21	44:AM:257:THR:HG22	1.82	0.45
45:AN:161:ASP:O	45:AN:162:ARG:NH2	2.50	0.45
45:AN:303:ALA:HB1	45:AN:373:ALA:HB1	1.98	0.45
44:BA:185:TYR:CE1	44:BA:398:MET:HE3	2.53	0.45
45:BB:287:PRO:HA	45:BB:290:THR:HG22	1.98	0.45
44:BC:21:TRP:CZ3	44:BC:53:PHE:HE1	2.35	0.45
45:BD:101:TRP:CB	45:BD:398:TYR:HE1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:223:GLY:O	45:BD:227:HIS:HB2	2.17	0.45
44:BE:6:SER:C	44:BE:7:ILE:HD13	2.38	0.45
44:BE:215:ARG:NH2	44:BE:299:ALA:O	2.50	0.45
44:BG:210:TYR:CE1	45:BH:324:LYS:HB2	2.52	0.45
44:BG:384:ILE:HD11	44:BG:387:VAL:HG11	1.99	0.45
45:BH:192:LEU:CD1	45:BH:196:ALA:HB2	2.47	0.45
45:BH:358:PRO:HA	45:BH:361:LEU:CD2	2.47	0.45
44:BI:133:GLN:O	44:BI:164:LYS:HE3	2.17	0.45
44:BI:255:PHE:HE1	44:BI:318:MET:SD	2.39	0.45
44:BI:276:ILE:CD1	44:BI:281:ALA:HA	2.44	0.45
45:BJ:214:THR:HG23	45:BJ:297:LYS:NZ	2.32	0.45
44:BK:35:GLN:O	44:BK:37:PRO:HD3	2.17	0.45
44:BK:66:VAL:HG13	44:BK:66:VAL:O	2.17	0.45
44:BK:350:GLY:HA2	45:BN:179:VAL:HG23	1.99	0.45
44:BK:352:LYS:HD3	45:BN:178:THR:HA	1.99	0.45
44:BM:100:ALA:O	45:BN:255:VAL:HG21	2.17	0.45
44:BM:185:TYR:HE2	44:BM:404:PHE:CB	2.27	0.45
45:BN:180:VAL:O	45:BN:180:VAL:HG22	2.17	0.45
44:CA:68:LEU:HD21	44:CA:118:CYS:CB	2.47	0.45
44:CA:311:LYS:NZ	44:CA:343:PHE:O	2.39	0.45
44:CA:311:LYS:NZ	44:CA:344:VAL:HA	2.31	0.45
44:CA:344:VAL:HG12	44:CA:345:ASP:N	2.32	0.45
44:CA:426:ALA:O	44:CA:430:LYS:HG2	2.17	0.45
45:CB:286:VAL:N	45:CB:287:PRO:CD	2.79	0.45
44:CC:82:THR:HG23	44:CC:83:TYR:CG	2.52	0.45
44:CC:205:ASP:OD2	44:CC:303:ALA:HB1	2.17	0.45
44:CC:219:ILE:HG22	44:CC:222:PRO:HD3	1.98	0.45
44:CE:230:LEU:O	44:CE:234:VAL:HG23	2.16	0.45
44:CE:409:VAL:HA	44:CE:413:MET:O	2.17	0.45
45:CF:286:VAL:N	45:CF:287:PRO:CD	2.80	0.45
44:CG:20:CYS:HA	44:CG:232:ALA:CB	2.43	0.45
45:CH:161:ASP:OD1	45:CH:162:ARG:NH1	2.50	0.45
44:CI:75:ILE:O	44:CI:79:ARG:HG3	2.17	0.45
44:CI:95:GLY:O	44:CI:96:LYS:HE2	2.17	0.45
44:CI:258:ASN:ND2	45:CJ:180:VAL:HG23	2.32	0.45
45:CJ:391:ARG:NH1	45:CJ:391:ARG:HG3	2.32	0.45
44:CK:1:MET:O	44:CK:131:GLY:HA3	2.17	0.45
44:CK:207:GLU:HA	44:CK:210:TYR:CG	2.52	0.45
45:CL:105:HIS:CE1	45:CL:150:LEU:HD12	2.52	0.45
44:CM:296:PHE:HE2	44:CM:335:ILE:HG21	1.81	0.45
45:CN:268:ILE:C	45:CN:300:MET:HE2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:25:CYS:O	44:DA:30:ILE:N	2.30	0.45
44:DA:214:ARG:HH12	44:DA:219:ILE:N	2.14	0.45
45:DB:286:VAL:HB	45:DB:287:PRO:HD3	1.99	0.45
45:DB:323:THR:C	44:DC:221:ARG:HH22	2.20	0.45
44:DC:175:PRO:HG3	44:DC:304:LYS:CG	2.48	0.45
44:DC:242:LEU:HD21	44:DC:251:ASP:HA	1.99	0.45
45:DD:31:ASP:CB	45:DD:32:PRO:HD3	2.38	0.45
44:DE:7:ILE:HD12	44:DE:122:ILE:CD1	2.46	0.45
44:DE:141:VAL:HG23	44:DE:190:SER:OG	2.17	0.45
44:DE:225:THR:O	44:DE:228:ASN:HB2	2.17	0.45
44:DE:267:PHE:CE2	44:DE:388:PHE:HZ	2.35	0.45
45:DF:141:GLY:HA3	48:DF:501:GDP:O2B	2.17	0.45
44:DG:156:ARG:HG2	44:DG:160:ASP:OD2	2.16	0.45
45:DH:242:PHE:HD2	45:DH:356:ILE:HB	1.82	0.45
44:DI:352:LYS:HD3	45:DJ:178:THR:HA	1.98	0.45
45:DJ:24:ILE:CA	45:DJ:27:GLU:HG2	2.46	0.45
45:DJ:149:THR:HG21	45:DJ:188:SER:CB	2.46	0.45
45:DJ:256:ASN:OD1	44:DK:181:VAL:HG22	2.18	0.45
45:DJ:312:THR:HG22	45:DJ:370:ASN:HB3	1.99	0.45
45:DJ:372:THR:HA	45:DJ:422:TYR:OH	2.17	0.45
44:DK:74:VAL:HG23	44:DK:75:ILE:HD12	1.99	0.45
44:DK:166:LYS:C	44:DK:167:LEU:HD12	2.38	0.45
44:DK:172:TYR:HE2	44:DK:203:MET:CE	2.30	0.45
45:DL:256:ASN:HB3	44:DM:181:VAL:HG22	1.97	0.45
44:DM:103:PHE:HB2	44:DM:186:ASN:CB	2.47	0.45
44:EA:183:GLU:N	44:EA:184:PRO:CD	2.80	0.45
45:EB:290:THR:HG21	45:EB:329:GLN:OE1	2.16	0.45
45:EB:374:ILE:HG13	45:EB:374:ILE:O	2.16	0.45
44:EC:111:GLY:HA2	44:EC:114:ILE:HG22	1.98	0.45
45:ED:252:LYS:HG2	45:ED:350:LYS:HE2	1.99	0.45
44:EE:269:LEU:N	44:EE:379:SER:O	2.50	0.45
45:EF:149:THR:HG23	45:EF:150:LEU:N	2.32	0.45
45:EF:316:LEU:HA	45:EF:352:SER:O	2.17	0.45
44:EG:1:MET:C	44:EG:2:ARG:HD3	2.37	0.45
44:EG:260:VAL:HG13	44:EG:265:ILE:O	2.17	0.45
44:EG:319:TYR:CD2	44:EG:328:VAL:HG22	2.51	0.45
44:EG:387:VAL:HG23	44:EG:388:PHE:N	2.32	0.45
45:EH:240:LEU:HD23	45:EH:240:LEU:O	2.17	0.45
44:EI:306:ASP:OD1	44:EI:308:ARG:HB2	2.17	0.45
45:EJ:279:GLN:O	45:EJ:279:GLN:HG2	2.17	0.45
45:EJ:391:ARG:HA	45:EJ:391:ARG:HD2	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:98:ASP:OD1	44:EK:99:ALA:N	2.50	0.45
44:EM:224:TYR:HD1	46:EM:501:GTP:C2	2.34	0.45
44:FA:103:PHE:HD2	44:FA:413:MET:HE1	1.81	0.45
44:FA:232:ALA:HA	44:FA:235:ILE:CD1	2.35	0.45
45:FB:41:ASP:O	45:FB:45:GLU:HG3	2.17	0.45
44:FC:174:SER:CB	44:FC:177:VAL:HG12	2.47	0.45
44:FC:210:TYR:OH	45:FD:323:THR:OG1	1.91	0.45
44:FC:437:ILE:HG13	44:FC:437:ILE:O	2.15	0.45
45:FD:151:LEU:CA	45:FD:154:LYS:HZ3	2.17	0.45
45:FD:202:ILE:CG2	45:FD:207:LEU:HD11	2.47	0.45
44:FE:70:LEU:HD12	44:FE:145:THR:OG1	2.16	0.45
44:FE:206:ASN:OD1	44:FE:207:GLU:HG2	2.17	0.45
45:FF:217:LEU:HD11	45:FF:220:PRO:HG3	1.99	0.45
44:FG:176:GLN:CG	45:FH:331:LEU:HD21	2.46	0.45
44:FG:298:PRO:HB3	44:FG:308:ARG:HH12	1.82	0.45
44:FG:439:THR:HB	45:FJ:390:ARG:HH22	1.82	0.45
45:FH:268:ILE:HG13	45:FH:300:MET:HE2	1.98	0.45
44:FI:137:VAL:O	44:FI:137:VAL:HG23	2.17	0.45
45:FJ:169:VAL:O	45:FJ:169:VAL:HG23	2.16	0.45
45:FJ:238:CYS:SG	45:FJ:239:CYS:N	2.90	0.45
45:FJ:292:GLN:OE1	45:FJ:292:GLN:HA	2.17	0.45
45:FJ:308:GLY:HA3	45:FJ:372:THR:HG23	1.99	0.45
45:FL:146:GLY:HA2	45:FL:149:THR:OG1	2.16	0.45
45:FL:267:MET:HG3	45:FL:299:MET:CE	2.46	0.45
45:FL:269:GLY:O	45:FL:366:THR:HG23	2.17	0.45
45:FN:8:GLN:HE21	45:FN:65:LEU:CG	2.20	0.45
45:FN:40:SER:O	45:FN:43:GLN:HB2	2.17	0.45
45:FN:49:VAL:CG2	45:FN:241:ARG:HG2	2.40	0.45
45:FN:86:ARG:HH12	45:GN:278:SER:HA	1.82	0.45
45:FN:295:ASP:N	45:FN:295:ASP:OD1	2.50	0.45
44:GA:105:ARG:HA	44:GA:109:THR:OG1	2.17	0.45
44:GA:288:VAL:HG23	44:GA:291:ILE:HD11	1.98	0.45
44:GC:166:LYS:O	44:GC:167:LEU:HD22	2.17	0.45
44:GE:24:PHE:CE2	44:GE:52:PHE:CE1	3.05	0.45
45:GF:163:ILE:CG2	45:GF:251:ARG:HH21	2.30	0.45
44:GG:168:GLY:O	44:GG:202:VAL:HG22	2.17	0.45
44:GG:172:TYR:HB3	44:GG:173:PRO:HD3	1.99	0.45
45:GH:266:PHE:HD1	45:GH:370:ASN:HB2	1.82	0.45
44:GI:209:ILE:CG1	44:GI:302:MET:HE3	2.47	0.45
44:GI:305:CYS:SG	44:GI:383:ALA:HB1	2.57	0.45
44:GI:344:VAL:HG12	44:GI:345:ASP:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GJ:143:THR:HG22	48:GJ:502:GDP:PB	2.57	0.45
44:GK:262:TYR:CE2	44:GK:435:VAL:HG21	2.52	0.45
45:GL:248:SER:HA	45:GL:252:LYS:HG2	1.99	0.45
44:GM:200:VAL:HG13	44:GM:268:MET:HE1	1.99	0.45
44:GM:269:LEU:HB3	44:GM:303:ALA:HB2	1.99	0.45
45:GN:325:GLU:HA	45:GN:328:GLU:CD	2.36	0.45
45:HB:329:GLN:O	45:HB:333:VAL:HG23	2.17	0.45
45:HB:342:VAL:CG2	45:HB:345:ILE:HG22	2.44	0.45
45:HB:405:GLU:HG2	45:HB:406:MET:CE	2.43	0.45
44:HC:1:MET:HG2	44:HC:2:ARG:NH1	2.31	0.45
44:HC:176:GLN:OE1	44:HC:176:GLN:N	2.50	0.45
44:HC:276:ILE:HG12	44:HC:280:LYS:HB2	1.99	0.45
44:HC:393:HIS:O	44:HC:396:ASP:OD1	2.34	0.45
45:HD:217:LEU:HD11	45:HD:220:PRO:HG3	1.99	0.45
45:HD:237:THR:HG23	45:HD:241:ARG:NH2	2.23	0.45
44:HE:172:TYR:HE2	44:HE:203:MET:CE	2.30	0.45
44:HE:394:LYS:HG2	45:HF:346:PRO:HG3	1.97	0.45
45:HF:36:TYR:CZ	45:HF:38:GLY:HA3	2.52	0.45
44:HG:132:LEU:CD2	44:HG:164:LYS:HG2	2.46	0.45
44:HG:138:PHE:CD2	44:HG:169:PHE:HB2	2.52	0.45
44:HG:191:THR:HG21	44:HG:425:LEU:HD21	1.99	0.45
45:HH:183:TYR:HE1	45:HH:388:MET:HB2	1.81	0.45
45:HH:217:LEU:HD11	45:HH:220:PRO:CB	2.42	0.45
45:HH:237:THR:HG22	45:HH:241:ARG:NH2	2.32	0.45
45:HH:286:VAL:N	45:HH:287:PRO:CD	2.79	0.45
45:HH:294:PHE:CE2	45:HH:333:VAL:HG21	2.52	0.45
44:HI:188:ILE:CG2	44:HI:189:LEU:HD12	2.44	0.45
44:HI:285:GLN:HG3	44:HI:287:SER:H	1.82	0.45
44:HI:286:LEU:HA	44:HI:290:GLU:OE2	2.17	0.45
45:HJ:172:SER:OG	45:HJ:175:VAL:HG22	2.16	0.45
44:HK:18:ASN:O	44:HK:22:GLU:HG3	2.17	0.45
45:HL:12:CYS:SG	45:HL:138:SER:HB2	2.57	0.45
45:HL:258:ILE:HG13	45:HL:266:PHE:HZ	1.82	0.45
45:HL:267:MET:SD	45:HL:374:ILE:HD11	2.57	0.45
44:HM:206:ASN:HA	44:HM:209:ILE:HD12	1.99	0.45
45:HN:157:GLU:O	45:HN:160:PRO:HD3	2.17	0.45
45:HN:285:THR:O	45:HN:287:PRO:N	2.50	0.45
45:HN:352:SER:C	45:HN:353:ILE:HD12	2.37	0.45
45:HN:388:MET:CE	45:HN:394:PHE:HD1	2.30	0.45
44:IA:71:GLU:CD	44:IA:73:THR:H	2.17	0.45
44:IA:141:VAL:CG1	44:IA:172:TYR:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:287:SER:O	44:IA:290:GLU:HG2	2.16	0.45
45:IB:258:ILE:HG23	45:IB:258:ILE:O	2.16	0.45
44:IC:21:TRP:CZ2	44:IC:65:ALA:HB2	2.52	0.45
45:ID:208:TYR:CE1	45:ID:225:LEU:HD11	2.52	0.45
45:ID:217:LEU:HD11	45:ID:220:PRO:CG	2.47	0.45
45:ID:358:PRO:HG3	45:ID:364:ALA:HB3	1.99	0.45
45:IF:115:SER:O	45:IF:119:VAL:HG12	2.17	0.45
45:IF:374:ILE:HD11	45:IF:422:TYR:CZ	2.52	0.45
44:IG:205:ASP:OD2	44:IG:304:LYS:N	2.49	0.45
45:IH:381:VAL:O	45:IH:384:GLN:HG2	2.17	0.45
44:II:274:PRO:HG3	44:II:286:LEU:HD12	1.99	0.45
44:II:276:ILE:O	44:II:276:ILE:HG13	2.17	0.45
44:II:286:LEU:HG	44:II:371:VAL:HG21	1.99	0.45
44:II:296:PHE:HD2	44:II:335:ILE:CD1	2.29	0.45
45:IL:19:LYS:HD2	45:IL:227:HIS:ND1	2.32	0.45
44:IM:385:ALA:HA	44:IM:388:PHE:CD2	2.52	0.45
44:JA:93:ILE:HD12	44:JA:117:LEU:HD23	1.99	0.45
44:JA:103:PHE:CE1	44:JA:189:LEU:HB3	2.52	0.45
45:JB:304:ASP:O	45:JB:304:ASP:OD1	2.35	0.45
44:JC:325:PRO:O	44:JC:328:VAL:HB	2.17	0.45
44:JE:215:ARG:HH22	44:JE:300:ASN:ND2	2.15	0.45
44:JE:329:ASN:ND2	45:JH:175:VAL:HB	2.32	0.45
45:JF:97:ALA:CB	45:JF:143:THR:HG22	2.46	0.45
44:JG:191:THR:HA	44:JG:194:LEU:CD2	2.47	0.45
44:JG:296:PHE:CE2	44:JG:335:ILE:HG12	2.52	0.45
44:JG:350:GLY:CA	45:JJ:179:VAL:HG12	2.47	0.45
45:JH:60:VAL:HG11	45:JH:86:ARG:HD3	1.99	0.45
45:JH:186:THR:HA	45:JH:189:VAL:HG22	1.99	0.45
44:JI:73:THR:HG22	45:JJ:46:ARG:NH2	2.22	0.45
45:JJ:141:GLY:O	45:JJ:145:SER:OG	2.24	0.45
44:JK:68:LEU:CD2	44:JK:93:ILE:HB	2.46	0.45
44:JK:150:GLY:O	44:JK:154:LEU:HD23	2.17	0.45
44:JM:56:THR:HB	44:JM:60:LYS:CE	2.44	0.45
44:JM:76:ASP:CB	45:JN:46:ARG:HH22	2.29	0.45
44:JM:182:VAL:HG22	44:JM:182:VAL:O	2.16	0.45
44:JM:200:VAL:HG12	44:JM:201:ALA:N	2.31	0.45
45:JN:399:THR:HA	45:JN:403:MET:O	2.17	0.45
44:KA:202:VAL:HG11	44:KA:270:SER:CB	2.47	0.45
44:KA:349:THR:O	44:KA:349:THR:HG23	2.16	0.45
44:KC:166:LYS:O	44:KC:199:ASP:HB2	2.17	0.45
44:KE:6:SER:O	44:KE:65:ALA:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:242:LEU:HD21	44:KE:252:ILE:HG12	1.99	0.45
44:KE:346:TRP:HZ3	45:KH:394:PHE:CE1	2.35	0.45
45:KF:21:TRP:CZ3	45:KF:51:TYR:HE1	2.35	0.45
45:KF:178:THR:O	45:KF:181:GLU:HB3	2.17	0.45
45:KF:202:ILE:HD11	45:KF:268:ILE:CD1	2.46	0.45
44:KI:12:GLY:O	44:KI:16:VAL:HG13	2.16	0.45
44:KI:39:ASP:OD1	44:KI:39:ASP:C	2.56	0.45
44:KI:203:MET:HE2	44:KI:387:VAL:HG11	1.99	0.45
44:KK:177:VAL:HG12	44:KK:207:GLU:OE2	2.17	0.45
45:KN:19:LYS:HZ3	45:KN:227:HIS:HB2	1.80	0.45
45:KN:76:VAL:HG23	45:KN:77:ARG:N	2.32	0.45
45:KN:181:GLU:OE1	45:KN:182:PRO:HG3	2.16	0.45
45:KN:286:VAL:N	45:KN:287:PRO:HD3	2.32	0.45
45:LB:42:LEU:HA	45:LB:45:GLU:HG2	1.98	0.45
45:LD:405:GLU:O	45:LD:409:THR:HG23	2.16	0.45
44:LE:210:TYR:CE2	45:LF:324:LYS:HB2	2.49	0.45
44:LE:329:ASN:O	44:LE:332:ILE:HG22	2.17	0.45
44:LG:11:GLN:CG	44:LG:74:VAL:HG11	2.33	0.45
44:LG:184:PRO:HG2	44:LG:398:MET:HE2	1.99	0.45
44:LG:315:CYS:N	44:LG:350:GLY:O	2.36	0.45
45:LH:134:GLN:O	45:LH:134:GLN:HG3	2.17	0.45
45:LH:285:THR:CB	45:LH:287:PRO:HD2	2.47	0.45
44:LI:267:PHE:HB3	44:LI:384:ILE:HD13	1.99	0.45
44:LI:384:ILE:O	44:LI:387:VAL:HG22	2.16	0.45
45:LJ:12:CYS:O	45:LJ:16:ILE:HB	2.16	0.45
45:LJ:139:LEU:HD22	45:LJ:188:SER:HB2	1.97	0.45
45:LJ:174:LYS:HD3	45:LJ:174:LYS:H	1.82	0.45
44:LK:103:PHE:HB2	44:LK:186:ASN:HB3	1.98	0.45
44:LM:313:MET:HB2	44:LM:380:ASN:O	2.17	0.45
45:LN:21:TRP:CZ3	45:LN:61:PRO:HA	2.52	0.45
45:LN:39:ASP:OD1	45:LN:40:SER:N	2.45	0.45
44:MA:295:ALA:O	44:MA:377:MET:HE1	2.16	0.45
45:MB:105:HIS:CD2	45:MB:150:LEU:HB2	2.52	0.45
45:MB:141:GLY:O	45:MB:145:SER:N	2.32	0.45
45:MB:152:ILE:HG23	45:MB:164:MET:CE	2.47	0.45
45:MB:305:PRO:HA	45:MB:373:ALA:CB	2.47	0.45
44:MC:18:ASN:HD21	44:MC:78:VAL:HG21	1.82	0.45
44:MC:208:ALA:HB3	44:MC:302:MET:O	2.16	0.45
44:MC:265:ILE:HD12	44:MC:432:TYR:CD1	2.52	0.45
45:MD:133:PHE:HD2	45:MD:164:MET:HE1	1.81	0.45
45:MD:252:LYS:HD3	45:MD:350:LYS:NZ	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:62:VAL:O	44:ME:62:VAL:HG13	2.15	0.45
45:MF:1:MET:HE2	45:MF:46:ARG:HH21	1.82	0.45
45:MF:100:ASN:ND2	45:MF:103:LYS:H	2.15	0.45
45:MF:341:PHE:HB3	45:MF:348:ASN:ND2	2.31	0.45
45:MJ:58:ARG:HD2	45:MJ:59:TYR:N	2.31	0.45
45:MJ:143:THR:HG23	45:MJ:144:GLY:N	2.32	0.45
44:MK:248:LEU:HB2	45:MN:222:TYR:HE2	1.81	0.45
45:ML:28:HIS:HB3	45:ML:30:ILE:CD1	2.47	0.45
45:ML:101:TRP:HE1	45:ML:105:HIS:HD2	1.62	0.45
44:MM:335:ILE:HG21	44:MM:351:PHE:CE2	2.52	0.45
44:NA:183:GLU:HG2	44:NA:184:PRO:N	2.32	0.45
45:NB:72:THR:HG1	45:NB:73:MET:N	2.15	0.45
45:NB:254:ALA:HA	45:NB:258:ILE:CD1	2.47	0.45
44:NC:145:THR:O	44:NC:149:LEU:HB2	2.17	0.45
44:NC:274:PRO:CB	44:NC:276:ILE:HD11	2.41	0.45
44:NC:401:LYS:HD2	45:ND:344:TRP:CD2	2.52	0.45
44:NE:49:PHE:HD2	44:NE:53:PHE:HB2	1.82	0.45
44:NE:223:THR:CG2	44:NE:224:TYR:N	2.80	0.45
44:NE:311:LYS:HA	44:NE:311:LYS:CE	2.42	0.45
45:NF:86:ARG:HD2	45:NF:89:ASN:OD1	2.17	0.45
45:NF:265:PHE:CE1	45:NF:378:PHE:HZ	2.34	0.45
44:NG:115:VAL:HG22	44:NG:119:LEU:HD23	1.99	0.45
45:NH:11:GLN:O	45:NH:14:ASN:N	2.50	0.45
45:NH:325:GLU:N	45:NH:325:GLU:OE1	2.33	0.45
45:NJ:204:ASN:OD1	45:NJ:205:GLU:N	2.50	0.45
45:NJ:334:GLN:HA	45:NJ:341:PHE:CD2	2.52	0.45
44:NK:56:THR:HG23	44:NK:58:ALA:H	1.79	0.45
44:NK:141:VAL:CG1	44:NK:172:TYR:HD1	2.28	0.45
44:NM:20:CYS:HA	44:NM:232:ALA:HB1	1.99	0.45
44:NM:105:ARG:HD2	44:NM:411:GLU:CG	2.46	0.45
44:NM:115:VAL:HG12	44:NM:153:LEU:HD23	1.99	0.45
44:NM:294:SER:C	44:NM:300:ASN:HD22	2.16	0.45
44:NM:328:VAL:O	44:NM:332:ILE:HG12	2.17	0.45
45:NN:22:GLU:HG2	45:NN:81:PHE:CD2	2.52	0.45
45:NN:242:PHE:CD2	45:NN:356:ILE:HB	2.50	0.45
45:NN:341:PHE:N	45:NN:348:ASN:HD21	2.15	0.45
44:OA:62:VAL:HG13	44:OA:64:ARG:CG	2.47	0.45
44:OA:194:LEU:HD11	44:OA:267:PHE:HZ	1.83	0.45
44:OA:240:ALA:HB1	44:OA:356:ASN:ND2	2.32	0.45
44:OA:317:MET:O	44:OA:318:MET:HE1	2.17	0.45
44:OA:326:LYS:HZ3	45:OD:220:PRO:CD	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:377:MET:O	45:OB:380:ARG:HG2	2.17	0.45
45:OB:394:PHE:O	45:OB:398:TYR:HD2	2.00	0.45
44:OC:248:LEU:HD11	45:OF:222:TYR:CE2	2.51	0.45
44:OC:402:ARG:C	44:OC:405:VAL:HG13	2.37	0.45
45:OD:4:ILE:HD11	45:OD:50:TYR:CZ	2.52	0.45
45:OD:25:SER:OG	45:OD:30:ILE:O	2.34	0.45
45:OD:36:TYR:CE1	45:OD:44:LEU:HD21	2.51	0.45
45:OD:202:ILE:HD12	45:OD:300:MET:HG3	1.99	0.45
45:OD:282:ARG:HH21	45:OD:288:GLU:C	2.19	0.45
44:OE:191:THR:HG21	44:OE:425:LEU:CD1	2.47	0.45
44:OG:52:PHE:HZ	44:OG:239:THR:CG2	2.30	0.45
45:OH:131:GLN:OE1	45:OH:131:GLN:HA	2.16	0.45
45:OH:254:ALA:O	45:OH:258:ILE:HD13	2.17	0.45
44:OI:33:ASP:OD1	44:OI:33:ASP:N	2.45	0.45
44:OI:254:GLU:CG	45:OL:98:GLY:HA2	2.44	0.45
45:OJ:238:CYS:HB2	45:OJ:318:ARG:NE	2.32	0.45
45:OJ:334:GLN:HE22	45:OJ:347:ASN:H	1.64	0.45
45:OL:32:PRO:HG3	45:OL:81:PHE:CD2	2.51	0.45
45:ON:282:ARG:HD3	45:ON:283:ALA:O	2.17	0.45
45:ON:313:ALA:HB3	45:ON:349:ILE:CA	2.36	0.45
44:PA:261:PRO:HG3	45:PD:394:PHE:CZ	2.52	0.45
45:PB:198:GLU:OE2	45:PB:254:ALA:HA	2.17	0.45
44:PC:1:MET:CE	45:PF:94:GLN:HG2	2.47	0.45
44:PC:276:ILE:HG23	44:PC:281:ALA:HB2	1.98	0.45
45:PD:151:LEU:HD23	45:PD:155:VAL:HG21	1.99	0.45
45:PD:270:PHE:CD2	45:PD:273:LEU:HD11	2.52	0.45
45:PD:299:MET:HG3	45:PD:305:PRO:CG	2.34	0.45
45:PD:342:VAL:CG1	45:PD:345:ILE:HG22	2.42	0.45
44:PE:277:SER:O	44:PE:281:ALA:HB2	2.17	0.45
45:PF:337:ASN:HB3	45:PF:340:TYR:HD2	1.82	0.45
44:PG:259:LEU:HD23	44:PG:259:LEU:H	1.81	0.45
45:PH:206:ALA:CB	45:PH:300:MET:HA	2.48	0.45
45:PH:245:GLN:O	45:PH:246:LEU:HD12	2.17	0.45
45:PH:309:ARG:HG2	45:PH:340:TYR:HA	1.98	0.45
44:PI:253:THR:HG23	45:PL:98:GLY:HA2	1.99	0.45
44:PI:386:GLU:HA	44:PI:389:SER:OG	2.17	0.45
45:PJ:184:ASN:HA	45:PJ:187:LEU:HD12	1.99	0.45
44:PK:56:THR:HG22	44:PK:60:LYS:O	2.16	0.45
44:PK:198:THR:HG22	44:PK:199:ASP:N	2.32	0.45
45:PL:22:GLU:HG2	45:PL:81:PHE:HD2	1.81	0.45
45:PN:3:GLU:CD	45:PN:62:ARG:HD2	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:75:ILE:HG23	44:QA:92:LEU:CD2	2.47	0.45
44:QA:205:ASP:OD2	44:QA:304:LYS:HB3	2.17	0.45
45:QB:377:MET:O	45:QB:380:ARG:HG2	2.17	0.45
44:QC:158:SER:O	44:QC:162:GLY:N	2.50	0.45
44:QC:287:SER:O	44:QC:290:GLU:N	2.50	0.45
44:QC:349:THR:O	44:QC:349:THR:HG23	2.17	0.45
45:QD:375:GLN:HE21	45:QD:419:VAL:CG1	2.30	0.45
44:QE:104:ALA:HA	44:QE:413:MET:HE1	1.97	0.45
44:QE:220:GLU:C	44:QE:222:PRO:HD3	2.37	0.45
45:QF:208:TYR:OH	45:QF:222:TYR:HE1	2.00	0.45
45:QF:368:VAL:O	45:QF:368:VAL:HG13	2.17	0.45
45:QF:415:MET:O	45:QF:418:LEU:HB3	2.17	0.45
44:QG:88:HIS:ND1	44:QG:90:GLU:HG2	2.32	0.45
44:QG:145:THR:CG2	44:QG:146:GLY:N	2.80	0.45
44:QG:242:LEU:HD11	44:QG:252:ILE:CB	2.45	0.45
45:QH:271:ALA:HB1	45:QH:272:PRO:HA	1.98	0.45
45:QH:314:SER:HB2	45:QH:350:LYS:HB3	1.99	0.45
45:QH:374:ILE:HD11	45:QH:422:TYR:CZ	2.52	0.45
45:QJ:164:MET:SD	45:QJ:196:ALA:HA	2.56	0.45
45:QJ:190:HIS:CD2	45:QJ:414:ASN:HD22	2.34	0.45
45:QJ:266:PHE:HB3	45:QJ:369:GLY:O	2.17	0.45
45:QJ:387:ALA:O	45:QJ:390:ARG:HG2	2.17	0.45
44:QK:23:LEU:HD21	44:QK:233:GLN:HA	1.99	0.45
44:QK:277:SER:O	44:QK:281:ALA:HB2	2.17	0.45
44:QK:310:GLY:C	44:QK:311:LYS:HD3	2.37	0.45
45:QL:346:PRO:C	45:QL:347:ASN:OD1	2.55	0.45
44:QM:13:GLY:CA	44:QM:16:VAL:HG12	2.46	0.45
44:QM:204:LEU:HD22	44:QM:231:ILE:HD13	1.98	0.45
45:QN:49:VAL:O	45:QN:62:ARG:NH1	2.33	0.45
45:QN:262:ARG:NH1	45:QN:421:GLU:OE1	2.51	0.45
44:RA:64:ARG:HG3	44:RA:64:ARG:NH1	2.31	0.45
45:RB:423:GLN:O	45:RB:426:GLN:HB3	2.16	0.45
44:RC:260:VAL:O	44:RC:260:VAL:HG23	2.17	0.45
45:RD:168:SER:HB2	45:RD:200:MET:O	2.17	0.45
45:RD:200:MET:HE1	45:RD:267:MET:C	2.37	0.45
45:RF:86:ARG:NH1	45:SF:281:TYR:HB2	2.32	0.45
44:RI:155:GLU:HA	44:RI:197:HIS:ND1	2.31	0.45
45:RJ:383:GLU:CA	45:RJ:386:THR:HG22	2.42	0.45
44:RK:22:GLU:OE2	44:RK:83:TYR:HE2	2.00	0.45
44:RK:216:ASN:ND2	44:RK:275:ILE:O	2.46	0.45
45:RL:18:ALA:O	45:RL:21:TRP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:40:SER:H	45:RL:43:GLN:NE2	2.15	0.45
44:RM:36:MET:HG2	44:RM:37:PRO:HD2	1.99	0.45
45:RN:30:ILE:HG12	45:RN:51:TYR:HE2	1.82	0.45
44:SA:106:GLY:C	44:SA:148:GLY:HA3	2.37	0.45
44:SA:137:VAL:O	44:SA:169:PHE:HD2	2.00	0.45
44:SC:335:ILE:HA	44:SC:338:LYS:CE	2.47	0.45
45:SD:86:ARG:HB3	45:SD:89:ASN:CG	2.38	0.45
44:SG:32:PRO:HB3	44:SG:83:TYR:HE1	1.80	0.45
44:SG:54:SER:O	44:SG:61:HIS:HA	2.16	0.45
44:SG:220:GLU:C	44:SG:221:ARG:HD2	2.37	0.45
44:SG:258:ASN:CG	45:SH:179:VAL:HG22	2.37	0.45
45:SH:135:ILE:HD11	45:SH:166:THR:HG22	1.99	0.45
45:SH:145:SER:O	45:SH:149:THR:HG22	2.16	0.45
44:SI:5:ILE:CG1	44:SI:125:LEU:HD23	2.47	0.45
44:SI:263:PRO:HD3	45:SJ:396:HIS:CG	2.52	0.45
45:SJ:285:THR:O	45:SJ:288:GLU:N	2.50	0.45
44:SK:7:ILE:HD13	44:SK:135:PHE:HB3	1.98	0.45
44:SK:276:ILE:CD1	44:SK:286:LEU:HD21	2.44	0.45
44:SM:261:PRO:HA	45:SN:394:PHE:CG	2.51	0.45
45:TB:16:ILE:HD12	45:TB:229:VAL:HG11	1.98	0.45
45:TD:21:TRP:CE2	45:TD:63:ALA:HB2	2.51	0.45
45:TD:38:GLY:CA	45:TD:43:GLN:HE22	2.29	0.45
45:TD:60:VAL:HB	45:UD:281:TYR:CD2	2.52	0.45
45:TD:104:GLY:C	45:TD:146:GLY:HA3	2.37	0.45
44:TE:336:LYS:HB3	44:TE:336:LYS:HZ1	1.82	0.45
45:TF:173:PRO:HG3	45:TF:380:ARG:HD3	1.98	0.45
45:TF:278:SER:O	45:TF:281:TYR:N	2.32	0.45
45:TH:28:HIS:HB2	45:TH:30:ILE:HG12	1.98	0.45
45:TH:52:ASN:HD21	45:TH:62:ARG:HE	1.64	0.45
44:TK:154:LEU:HD22	44:TK:166:LYS:HD2	1.98	0.45
44:TK:168:GLY:O	44:TK:201:ALA:HA	2.17	0.45
45:TL:155:VAL:O	45:TL:159:TYR:HD1	1.99	0.45
44:TM:171:ILE:HG12	44:TM:204:LEU:CB	2.46	0.45
44:TM:285:GLN:OE1	44:TM:287:SER:N	2.50	0.45
45:TN:20:PHE:CE1	45:TN:24:ILE:HD11	2.52	0.45
45:TN:272:PRO:HD2	45:TN:364:ALA:HA	1.97	0.45
45:TN:309:ARG:HA	45:TN:340:TYR:C	2.37	0.45
44:UA:154:LEU:HD13	44:UA:198:THR:OG1	2.16	0.45
44:UA:250:VAL:HG13	44:UA:254:GLU:OE1	2.17	0.45
45:UB:15:GLN:O	45:UB:18:ALA:HB3	2.17	0.45
45:UB:16:ILE:HD12	45:UB:229:VAL:CG1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:134:GLN:HA	45:UB:165:GLU:O	2.17	0.45
44:UC:8:HIS:HB2	44:UC:67:PHE:CD1	2.52	0.45
45:UF:267:MET:HB2	45:UF:299:MET:CE	2.46	0.45
44:UG:104:ALA:H	44:UG:408:TYR:HE1	1.65	0.45
44:UG:328:VAL:HG12	44:UG:332:ILE:CG1	2.47	0.45
45:UH:377:MET:O	45:UH:381:VAL:HG23	2.17	0.45
45:UH:399:THR:HG22	45:UH:403:MET:O	2.17	0.45
44:UI:256:GLN:CB	44:UI:260:VAL:HG21	2.47	0.45
45:UJ:404:ASP:CG	45:UJ:406:MET:HG2	2.38	0.45
44:UK:201:ALA:HB3	44:UK:266:HIS:O	2.17	0.45
45:UL:190:HIS:ND1	45:UL:411:ALA:HA	2.32	0.45
45:UL:269:GLY:HA2	45:UL:300:MET:HE2	1.98	0.45
44:UM:161:TYR:HB2	44:UM:164:LYS:NZ	2.32	0.45
44:UM:253:THR:HG23	44:UM:254:GLU:OE1	2.15	0.45
44:VA:7:ILE:O	44:VA:137:VAL:HG23	2.17	0.45
44:VA:22:GLU:OE2	44:VA:83:TYR:HE2	1.99	0.45
44:VA:188:ILE:HD13	44:VA:395:PHE:HD1	1.82	0.45
45:VB:258:ILE:HG23	45:VB:263:LEU:O	2.17	0.45
44:VC:89:PRO:HG3	44:WC:280:LYS:HG3	1.97	0.45
44:VC:115:VAL:HG21	44:VC:156:ARG:HD2	1.99	0.45
44:VC:122:ILE:CG2	44:VC:126:ALA:HB2	2.40	0.45
44:VC:244:PHE:HB2	44:VC:356:ASN:HD21	1.82	0.45
44:VG:222:PRO:O	45:VH:322:SER:OG	2.35	0.45
44:VG:292:THR:HG23	44:VG:293:ASN:N	2.32	0.45
45:VH:72:THR:O	45:VH:75:SER:OG	2.30	0.45
45:VH:252:LYS:HE3	45:VH:350:LYS:HZ1	1.82	0.45
45:VJ:61:PRO:HG2	45:VJ:84:LEU:HD23	1.99	0.45
44:VK:27:GLU:OE2	44:VK:358:GLN:HG2	2.17	0.45
45:VL:377:MET:O	45:VL:381:VAL:HG23	2.17	0.45
44:VM:175:PRO:O	44:VM:394:LYS:HE3	2.17	0.45
44:VM:427:ALA:HA	44:VM:430:LYS:NZ	2.33	0.45
44:WA:183:GLU:CG	44:WA:184:PRO:HD3	2.44	0.45
44:WA:228:ASN:HA	44:WA:231:ILE:CD1	2.37	0.45
45:WB:9:GLY:O	45:WB:13:GLY:HA3	2.17	0.45
45:WB:33:THR:HA	45:WB:83:GLN:NE2	2.32	0.45
44:WC:156:ARG:HA	44:WC:159:VAL:CG1	2.44	0.45
44:WC:269:LEU:HB3	44:WC:384:ILE:HD11	1.99	0.45
44:WC:270:SER:HB3	44:WC:378:ILE:CD1	2.46	0.45
44:WC:285:GLN:O	44:WC:286:LEU:HB2	2.17	0.45
44:WC:344:VAL:HG12	44:WC:345:ASP:N	2.32	0.45
44:WE:434:GLU:OE2	45:WH:391:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:136:LEU:HA	44:WG:167:LEU:O	2.17	0.45
44:WG:181:VAL:HG13	45:WH:256:ASN:ND2	2.32	0.45
44:WG:260:VAL:HG23	45:WJ:397:TRP:HH2	1.80	0.45
44:WG:261:PRO:HB2	44:WG:262:TYR:CD2	2.51	0.45
44:WG:332:ILE:HG22	44:WG:336:LYS:HE2	1.99	0.45
44:WG:345:ASP:OD2	44:WG:439:THR:HG22	2.17	0.45
44:WI:96:LYS:HG3	44:WI:97:GLU:N	2.32	0.45
45:WJ:44:LEU:CD2	45:WJ:47:ILE:HD12	2.47	0.45
45:WJ:50:TYR:OH	45:WJ:134:GLN:OE1	2.31	0.45
44:WM:3:GLU:HG3	44:WM:51:THR:HA	1.99	0.45
44:WM:155:GLU:HA	44:WM:197:HIS:ND1	2.32	0.45
8:OG:49:TYR:O	44:JK:82:THR:HG21	2.16	0.44
4:1C:89:PHE:HD1	44:EM:229:ARG:CZ	2.30	0.44
20:1J:144:THR:HG22	44:IE:372:MET:HE1	1.97	0.44
20:1J:208:ASN:OD1	45:IJ:221:THR:HG21	2.16	0.44
20:1J:348:LEU:HD11	45:IN:228:LEU:HD23	1.98	0.44
21:1K:191:ILE:CD1	45:GD:280:GLN:HG2	2.47	0.44
2:2A:103:GLN:HE21	35:5R:58:ARG:H	1.64	0.44
32:2I:90:TYR:CD1	44:GE:220:GLU:HG2	2.52	0.44
22:3L:45:ARG:NH2	45:BB:284:LEU:HD12	2.26	0.44
24:3O:249:LYS:HZ1	45:UN:276:ARG:HH21	1.65	0.44
38:5F:141:CYS:SG	38:5F:144:LEU:HD11	2.57	0.44
38:5H:71:PRO:HG3	38:5H:106:VAL:HG23	1.98	0.44
38:5H:71:PRO:O	38:5H:103:ARG:NE	2.50	0.44
35:5R:148:GLN:HG3	35:5R:149:GLN:N	2.31	0.44
35:5R:303:PHE:O	45:CJ:78:ALA:HA	2.16	0.44
40:6F:103:LEU:CD2	44:JE:219:ILE:HD11	2.47	0.44
41:6G:231:ASN:ND2	41:6G:233:ARG:HH22	2.15	0.44
41:6G:283:GLY:O	41:6G:287:VAL:HG23	2.17	0.44
11:6Q:79:ILE:C	11:6Q:80:ILE:HG13	2.38	0.44
35:6R:230:GLU:HA	35:6R:233:GLU:OE1	2.17	0.44
35:7R:222:PRO:CA	35:7R:224:ASN:HB2	2.47	0.44
35:7R:284:THR:HB	35:7R:307:LYS:CA	2.47	0.44
44:AA:188:ILE:CG2	44:AA:425:LEU:HG	2.36	0.44
45:AB:101:TRP:O	45:AB:105:HIS:N	2.50	0.44
45:AB:293:MET:CG	45:AB:367:PHE:HB2	2.47	0.44
44:AC:270:SER:HB2	44:AC:377:MET:O	2.16	0.44
45:AD:316:LEU:HB2	45:AD:366:THR:HG23	1.99	0.44
44:AE:60:LYS:NZ	44:AE:85:GLN:O	2.49	0.44
44:AE:329:ASN:OD1	45:AH:175:VAL:HG12	2.18	0.44
45:AF:47:ILE:O	45:AF:47:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:23:LEU:HD21	44:AG:236:SER:HB2	1.99	0.44
44:AG:343:PHE:CZ	44:AG:351:PHE:HE2	2.35	0.44
45:AH:7:ILE:HD11	45:AH:135:ILE:HD11	1.98	0.44
44:AI:29:GLY:O	44:AI:30:ILE:HD13	2.17	0.44
44:AI:230:LEU:CD1	44:AI:275:ILE:HD13	2.47	0.44
44:AI:274:PRO:HG3	44:AI:286:LEU:HD12	1.99	0.44
44:AI:328:VAL:HG11	44:AI:353:VAL:CG2	2.35	0.44
45:AJ:285:THR:CG2	45:AJ:287:PRO:HD2	2.47	0.44
44:AK:244:PHE:CE2	44:AK:358:GLN:OE1	2.70	0.44
44:AK:258:ASN:HD22	44:AK:352:LYS:CB	2.29	0.44
45:AL:92:PHE:C	45:AL:112:LEU:HD11	2.37	0.44
44:AM:91:GLN:HA	44:AM:93:ILE:HD11	1.98	0.44
44:AM:114:ILE:HG22	44:AM:114:ILE:O	2.15	0.44
45:AN:130:LEU:HD21	45:AN:133:PHE:CZ	2.51	0.44
44:BA:73:THR:HG1	45:BB:2:ARG:NH2	2.16	0.44
44:BC:71:GLU:OE1	44:BC:73:THR:HB	2.17	0.44
44:BE:102:ASN:O	44:BE:105:ARG:N	2.36	0.44
45:BF:286:VAL:CG1	45:BF:287:PRO:CD	2.92	0.44
44:BG:66:VAL:HG22	44:BG:68:LEU:HD11	1.99	0.44
45:BH:308:GLY:HA3	45:BH:372:THR:OG1	2.17	0.44
45:BJ:222:TYR:HD1	48:BJ:502:GDP:C6	2.34	0.44
45:BJ:241:ARG:HD2	45:BJ:242:PHE:CE1	2.48	0.44
44:BK:248:LEU:HD23	44:BK:355:ILE:HD13	1.99	0.44
44:BM:1:MET:HG3	44:BM:1:MET:O	2.16	0.44
44:BM:201:ALA:HB3	44:BM:267:PHE:CE1	2.52	0.44
44:BM:319:TYR:HA	44:BM:375:VAL:HG12	2.00	0.44
45:CB:186:THR:CA	45:CB:415:MET:HE3	2.41	0.44
45:CB:322:SER:HA	44:CC:223:THR:OG1	2.17	0.44
44:CC:228:ASN:O	44:CC:231:ILE:HG22	2.17	0.44
44:CC:272:TYR:HD1	44:CC:376:CYS:HB2	1.82	0.44
45:CD:23:VAL:O	45:CD:26:ASP:N	2.49	0.44
45:CD:83:GLN:HA	45:CD:83:GLN:OE1	2.16	0.44
45:CD:255:VAL:HA	44:CE:407:TRP:CZ3	2.53	0.44
44:CE:82:THR:HG23	44:CE:83:TYR:CE1	2.52	0.44
44:CE:143:GLY:HA3	46:CE:501:GTP:O2B	2.17	0.44
45:CF:260:PHE:HE2	45:CF:425:TYR:CE2	2.34	0.44
44:CK:93:ILE:HD12	44:CK:93:ILE:H	1.82	0.44
44:CM:26:LEU:CD2	44:CM:363:VAL:HA	2.47	0.44
44:CM:209:ILE:O	44:CM:212:ILE:HB	2.17	0.44
44:CM:431:ASP:O	44:CM:435:VAL:HG23	2.17	0.44
44:DA:37:PRO:O	44:DA:38:SER:CB	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:102:ASN:CB	44:DA:105:ARG:HB2	2.38	0.44
44:DA:185:TYR:OH	44:DA:398:MET:HB3	2.18	0.44
44:DA:261:PRO:HG2	44:DA:313:MET:SD	2.57	0.44
44:DA:280:LYS:HZ1	44:DA:283:HIS:CE1	2.35	0.44
45:DB:342:VAL:HG22	45:DB:343:GLU:N	2.31	0.44
44:DC:2:ARG:CD	44:DC:242:LEU:HB3	2.47	0.44
44:DC:71:GLU:OE1	44:DC:73:THR:HB	2.17	0.44
44:DC:105:ARG:NE	44:DC:110:ILE:HG23	2.19	0.44
45:DD:8:GLN:HE22	45:DD:16:ILE:HG22	1.82	0.44
45:DD:330:MET:HB3	45:DD:349:ILE:CD1	2.33	0.44
44:DE:2:ARG:CG	44:DE:242:LEU:HD11	2.47	0.44
44:DE:176:GLN:HG2	44:DE:177:VAL:N	2.31	0.44
45:DH:44:LEU:HA	45:DH:47:ILE:CG1	2.47	0.44
44:DI:186:ASN:OD1	44:DI:187:SER:N	2.50	0.44
44:DI:241:SER:HA	44:DI:356:ASN:ND2	2.33	0.44
44:DI:271:SER:HA	44:DI:302:MET:HB2	1.98	0.44
44:DI:302:MET:HE2	44:DI:302:MET:HA	2.00	0.44
45:DJ:278:SER:HA	45:DJ:281:TYR:CZ	2.52	0.44
45:DJ:423:GLN:HE22	45:DJ:426:GLN:HB3	1.82	0.44
44:DK:6:SER:C	44:DK:7:ILE:HD13	2.37	0.44
44:DM:108:TYR:CE2	44:DM:413:MET:HB2	2.51	0.44
44:DM:145:THR:HG23	44:DM:146:GLY:N	2.32	0.44
44:EA:295:ALA:HB1	44:EA:377:MET:HE1	1.98	0.44
45:EB:374:ILE:HD11	45:EB:377:MET:CE	2.47	0.44
44:EC:184:PRO:O	44:EC:188:ILE:HG12	2.17	0.44
45:ED:406:MET:O	45:ED:410:GLU:HG3	2.16	0.44
44:EE:319:TYR:HA	44:EE:375:VAL:HG23	1.99	0.44
45:EF:54:ALA:HB2	45:FF:283:ALA:HB2	1.98	0.44
45:EF:284:LEU:O	45:EF:363:MET:HE3	2.16	0.44
45:EF:286:VAL:HA	45:EF:289:LEU:HD12	1.99	0.44
45:EF:286:VAL:HG12	45:EF:329:GLN:CD	2.37	0.44
45:EH:40:SER:O	45:EH:43:GLN:HB2	2.18	0.44
45:EH:199:CYS:CB	45:EH:266:PHE:N	2.81	0.44
45:EH:328:GLU:HG2	45:EH:329:GLN:N	2.32	0.44
45:EJ:153:SER:HA	45:EJ:195:ASN:HD22	1.82	0.44
45:EJ:267:MET:CE	45:EJ:371:SER:HB3	2.47	0.44
44:EK:145:THR:HG23	44:EK:146:GLY:N	2.30	0.44
45:EL:114:ASP:N	45:EL:114:ASP:OD1	2.48	0.44
45:EL:133:PHE:HD2	45:EL:155:VAL:HG11	1.82	0.44
45:EL:214:THR:OG1	45:EL:215:LEU:HG	2.17	0.44
44:EM:70:LEU:CA	44:EM:95:GLY:HA3	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:305:CYS:O	44:EM:307:PRO:HD3	2.17	0.44
44:EM:329:ASN:O	44:EM:332:ILE:HB	2.17	0.44
45:EN:258:ILE:O	45:EN:258:ILE:HG22	2.17	0.44
44:FA:66:VAL:O	44:FA:67:PHE:HD1	2.01	0.44
44:FC:240:ALA:HB2	44:FC:320:ARG:HH11	1.82	0.44
44:FC:282:TYR:OH	44:FC:370:LYS:HE2	2.17	0.44
44:FE:19:ALA:CB	44:FE:228:ASN:HB3	2.47	0.44
44:FE:276:ILE:HD11	44:FE:281:ALA:HA	1.99	0.44
45:FF:105:HIS:HD1	45:FF:106:TYR:HD1	1.65	0.44
45:FF:316:LEU:HG	45:FF:352:SER:HB2	1.98	0.44
44:FG:194:LEU:HD21	44:FG:198:THR:HB	1.97	0.44
44:FG:240:ALA:HB2	44:FG:320:ARG:NH2	2.28	0.44
44:FG:242:LEU:HD11	44:FG:252:ILE:CG1	2.44	0.44
44:FG:377:MET:CE	44:FG:379:SER:HB3	2.47	0.44
45:FH:25:SER:O	45:FH:29:GLY:N	2.46	0.44
45:FH:245:GLN:C	45:FH:246:LEU:HD12	2.37	0.44
45:FH:248:SER:HB3	45:FH:252:LYS:HD2	1.98	0.44
44:FI:10:GLY:O	44:FI:14:ILE:HG13	2.16	0.44
45:FJ:175:VAL:O	45:FJ:175:VAL:HG22	2.17	0.44
44:FK:151:SER:O	44:FK:155:GLU:HG3	2.18	0.44
45:FL:44:LEU:HA	45:FL:47:ILE:HG12	1.99	0.44
44:FM:53:PHE:CE2	44:FM:63:PRO:HG3	2.51	0.44
44:FM:110:ILE:O	44:FM:110:ILE:HG22	2.17	0.44
44:FM:217:LEU:CB	44:FM:219:ILE:HG13	2.46	0.44
44:FM:296:PHE:CE2	44:FM:335:ILE:HG21	2.52	0.44
44:GA:24:PHE:HZ	44:GA:235:ILE:CG2	2.30	0.44
44:GA:156:ARG:CA	44:GA:159:VAL:HG12	2.46	0.44
44:GA:182:VAL:C	44:GA:184:PRO:HD2	2.36	0.44
44:GA:260:VAL:HG13	44:GA:266:HIS:HA	1.99	0.44
44:GA:341:ILE:O	44:GA:341:ILE:CG2	2.64	0.44
45:GB:172:SER:HA	45:GB:377:MET:HE1	1.98	0.44
44:GC:183:GLU:HG2	44:GC:184:PRO:N	2.31	0.44
45:GD:86:ARG:HB2	45:GD:281:TYR:HD2	1.80	0.44
45:GD:170:VAL:CG2	45:GD:171:PRO:HD2	2.47	0.44
44:GE:132:LEU:HD12	44:GE:164:LYS:HE2	1.99	0.44
44:GE:179:THR:O	44:GE:179:THR:HG22	2.17	0.44
45:GF:132:GLY:HA2	45:GF:162:ARG:HB3	1.97	0.44
44:GG:244:PHE:CD2	44:GG:358:GLN:HG3	2.52	0.44
44:GG:268:MET:HB2	44:GG:379:SER:C	2.37	0.44
44:GG:288:VAL:HG23	44:GG:291:ILE:CD1	2.47	0.44
45:GH:27:GLU:OE2	45:GH:242:PHE:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:99:ASN:HA	45:GH:142:GLY:N	2.32	0.44
44:GI:188:ILE:HD12	44:GI:425:LEU:CD1	2.46	0.44
44:GI:210:TYR:O	44:GI:214:ARG:N	2.50	0.44
44:GI:269:LEU:HD12	44:GI:303:ALA:CB	2.39	0.44
44:GI:354:GLY:O	44:GI:355:ILE:HG13	2.17	0.44
45:GJ:350:LYS:HG3	45:GJ:351:SER:N	2.32	0.44
44:GK:100:ALA:HA	45:GL:252:LYS:NZ	2.32	0.44
44:GM:24:PHE:HZ	44:GM:235:ILE:CG2	2.30	0.44
44:GM:62:VAL:HG11	44:GM:88:HIS:HB2	1.97	0.44
45:GN:32:PRO:HA	45:GN:81:PHE:CE2	2.52	0.44
45:GN:99:ASN:C	45:GN:142:GLY:HA3	2.36	0.44
45:GN:117:LEU:HD21	45:GN:121:ARG:HH21	1.82	0.44
45:GN:190:HIS:O	45:GN:193:VAL:HG12	2.16	0.44
44:HA:103:PHE:CE2	44:HA:189:LEU:HD13	2.51	0.44
44:HA:345:ASP:HB2	44:HA:438:GLU:HG2	1.98	0.44
45:HB:267:MET:CE	45:HB:301:CYS:HB2	2.45	0.44
45:HB:309:ARG:NH2	45:HB:342:VAL:HG23	2.32	0.44
44:HC:13:GLY:CA	44:HC:16:VAL:HG12	2.46	0.44
45:HD:1:MET:C	45:HD:2:ARG:HG2	2.37	0.44
45:HD:68:LEU:HG	45:HD:96:GLY:CA	2.47	0.44
44:HE:174:SER:OG	44:HE:207:GLU:HB2	2.17	0.44
44:HE:206:ASN:O	44:HE:209:ILE:N	2.47	0.44
44:HE:325:PRO:O	44:HE:328:VAL:HB	2.17	0.44
45:HF:181:GLU:HA	45:HF:184:ASN:OD1	2.17	0.44
45:HF:187:LEU:HD11	45:HF:408:PHE:CZ	2.52	0.44
44:HG:311:LYS:HZ3	44:HG:342:GLN:CG	2.26	0.44
46:HG:501:GTP:O2A	46:HG:501:GTP:H8	2.00	0.44
45:HJ:68:LEU:HD21	45:HJ:147:MET:CE	2.41	0.44
45:HJ:186:THR:O	45:HJ:189:VAL:HG22	2.16	0.44
44:HK:311:LYS:O	44:HK:382:THR:HG23	2.16	0.44
45:HL:289:LEU:HD23	45:HL:289:LEU:HA	1.89	0.44
44:HM:202:VAL:HG22	44:HM:268:MET:CG	2.47	0.44
44:HM:327:ASP:O	44:HM:330:ALA:HB3	2.17	0.44
44:IA:192:HIS:ND1	44:IA:424:ASP:OD2	2.51	0.44
44:IA:362:VAL:HG13	44:IA:362:VAL:O	2.17	0.44
44:IC:67:PHE:HE2	44:IC:78:VAL:HG11	1.81	0.44
44:IC:169:PHE:CE1	44:IC:202:VAL:HG21	2.52	0.44
44:IC:221:ARG:HH21	45:ID:321:MET:CE	2.30	0.44
44:IC:253:THR:HG23	44:IC:254:GLU:HG3	1.99	0.44
44:IE:106:GLY:O	44:IE:149:LEU:HD22	2.17	0.44
45:IF:290:THR:HG21	45:IF:329:GLN:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:325:GLU:HA	45:IH:328:GLU:HG2	1.99	0.44
44:II:279:GLU:OE2	44:II:280:LYS:HB2	2.17	0.44
45:IJ:170:VAL:HG22	45:IJ:171:PRO:HD2	1.99	0.44
44:IK:6:SER:OG	44:IK:65:ALA:HB2	2.17	0.44
44:IK:402:ARG:O	44:IK:405:VAL:HG22	2.16	0.44
45:IL:7:ILE:HG23	45:IL:88:ASP:C	2.38	0.44
44:IM:67:PHE:O	44:IM:68:LEU:HD12	2.17	0.44
45:IN:42:LEU:HD12	45:IN:45:GLU:OE2	2.17	0.44
44:JA:170:THR:OG1	44:JA:172:TYR:HE1	2.01	0.44
44:JA:404:PHE:CE2	45:JB:259:PRO:HB3	2.51	0.44
44:JC:271:SER:OG	44:JC:301:MET:HA	2.17	0.44
45:JD:1:MET:C	45:JD:2:ARG:HG2	2.37	0.44
45:JD:73:MET:O	45:JD:76:VAL:HG12	2.17	0.44
44:JG:49:PHE:HB2	44:JG:53:PHE:HB2	1.99	0.44
44:JG:117:LEU:HD23	44:JG:117:LEU:HA	1.89	0.44
45:JH:12:CYS:SG	45:JH:169:VAL:HG21	2.57	0.44
45:JH:154:LYS:HA	45:JH:154:LYS:HD3	1.74	0.44
44:JI:5:ILE:HD12	44:JI:135:PHE:CE1	2.42	0.44
45:JJ:174:LYS:HD2	45:JJ:175:VAL:CG1	2.31	0.44
44:JK:11:GLN:HB3	46:JK:501:GTP:O1B	2.16	0.44
44:JK:241:SER:HA	44:JK:356:ASN:ND2	2.33	0.44
44:JK:328:VAL:HG11	44:JK:353:VAL:HG11	1.98	0.44
44:JK:424:ASP:OD2	44:JK:425:LEU:N	2.50	0.44
45:JL:3:GLU:OE2	45:JL:127:CYS:HB2	2.17	0.44
45:JL:249:ASP:OD1	45:JL:252:LYS:HB2	2.17	0.44
44:JM:288:VAL:CB	44:JM:373:ARG:HD2	2.46	0.44
44:JM:312:TYR:CE1	44:JM:341:ILE:HG23	2.51	0.44
45:JN:156:ARG:HG3	45:JN:195:ASN:HB3	1.99	0.44
44:KA:24:PHE:HD1	44:KA:27:GLU:OE2	2.00	0.44
44:KA:62:VAL:HG13	44:KA:63:PRO:HD2	1.99	0.44
44:KA:105:ARG:HA	44:KA:109:THR:CB	2.31	0.44
44:KA:196:GLU:HA	44:KA:264:ARG:HH22	1.82	0.44
44:KA:353:VAL:O	44:KA:353:VAL:HG13	2.17	0.44
45:KB:97:ALA:CB	45:KB:143:THR:HB	2.47	0.44
45:KD:6:HIS:HB2	45:KD:134:GLN:NE2	2.31	0.44
44:KE:182:VAL:O	44:KE:182:VAL:HG22	2.17	0.44
44:KE:224:TYR:CE2	45:KF:246:LEU:HD11	2.38	0.44
44:KE:251:ASP:HB2	44:KE:254:GLU:OE1	2.17	0.44
45:KF:289:LEU:HD12	45:KF:363:MET:HB3	1.98	0.44
45:KF:415:MET:O	45:KF:419:VAL:HG23	2.17	0.44
45:KH:253:LEU:HD11	45:KH:257:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KJ:36:TYR:CE2	45:KJ:38:GLY:N	2.85	0.44
45:KJ:105:HIS:O	45:KJ:106:TYR:HD1	2.00	0.44
44:KK:224:TYR:CD2	46:KK:501:GTP:C6	3.05	0.44
44:KK:371:VAL:HG22	44:KK:372:MET:N	2.32	0.44
45:KL:267:MET:HB2	45:KL:301:CYS:HB2	1.98	0.44
44:KM:286:LEU:N	44:KM:290:GLU:OE2	2.50	0.44
45:KN:161:ASP:OD1	45:KN:162:ARG:HG2	2.17	0.44
45:KN:286:VAL:CG2	45:KN:321:MET:HG2	2.47	0.44
45:LB:121:ARG:NH1	45:LB:159:TYR:HH	2.09	0.44
44:LC:56:THR:OG1	44:MC:285:GLN:HA	2.16	0.44
45:LD:21:TRP:O	45:LD:24:ILE:HG22	2.17	0.44
44:LE:56:THR:N	44:LE:57:GLY:HA3	2.27	0.44
44:LE:67:PHE:HB2	44:LE:92:LEU:HD23	1.98	0.44
44:LE:176:GLN:CG	45:LF:331:LEU:HD21	2.47	0.44
44:LE:217:LEU:HD12	44:LE:217:LEU:H	1.82	0.44
44:LE:246:GLY:CA	44:LE:357:TYR:HE1	2.30	0.44
44:LI:55:GLU:HG3	44:LI:57:GLY:H	1.81	0.44
45:LJ:66:MET:CE	45:LJ:147:MET:HG2	2.47	0.44
45:LJ:235:GLY:HA3	45:LJ:366:THR:OG1	2.17	0.44
45:LJ:396:HIS:HA	45:LJ:399:THR:CG2	2.45	0.44
44:LK:351:PHE:HB2	45:LN:176:SER:HG	1.81	0.44
45:LL:7:ILE:HD12	45:LL:64:ILE:O	2.15	0.44
45:LL:167:PHE:CE1	45:LL:200:MET:HE2	2.53	0.44
45:LL:382:ALA:HB2	45:LL:415:MET:HE2	1.98	0.44
45:LN:240:LEU:HD12	45:LN:249:ASP:CB	2.47	0.44
44:MA:237:SER:HA	44:MA:320:ARG:NH1	2.32	0.44
45:MB:27:GLU:HG3	45:MB:42:LEU:CG	2.47	0.44
45:MB:382:ALA:HB2	45:MB:415:MET:CE	2.47	0.44
44:MC:14:ILE:HD13	44:MC:75:ILE:HD11	1.99	0.44
44:MC:51:THR:O	44:MC:52:PHE:HD1	1.99	0.44
45:MD:23:VAL:HG11	45:MD:230:SER:HB3	1.99	0.44
45:MD:173:PRO:CG	45:MD:380:ARG:HD3	2.46	0.44
45:MD:173:PRO:HG3	45:MD:380:ARG:CD	2.47	0.44
45:MD:256:ASN:ND2	45:MD:350:LYS:HD2	2.32	0.44
45:MD:270:PHE:CD2	45:MD:273:LEU:HD11	2.53	0.44
44:ME:102:ASN:HB3	44:ME:105:ARG:HB2	1.99	0.44
45:MF:111:GLU:HA	45:MF:111:GLU:OE1	2.17	0.44
45:MH:8:GLN:HE21	45:MH:65:LEU:HD11	1.81	0.44
44:MI:424:ASP:HA	44:MI:427:ALA:HB3	1.99	0.44
45:MJ:28:HIS:ND1	45:MJ:47:ILE:HG13	2.32	0.44
44:MK:10:GLY:O	44:MK:14:ILE:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:280:LYS:HD3	44:MK:283:HIS:CD2	2.51	0.44
45:ML:4:ILE:HD11	45:ML:50:TYR:OH	2.17	0.44
44:MM:119:LEU:HD11	44:MM:156:ARG:CG	2.46	0.44
44:MM:156:ARG:HG2	44:MM:156:ARG:HH11	1.82	0.44
44:NA:119:LEU:HD11	44:NA:156:ARG:HG2	1.99	0.44
44:NA:188:ILE:HG13	44:NA:395:PHE:CB	2.47	0.44
44:NA:325:PRO:CA	44:NA:328:VAL:HG12	2.43	0.44
44:NC:116:ASP:N	44:NC:116:ASP:OD1	2.49	0.44
44:NC:259:LEU:CD2	44:NC:378:ILE:HG22	2.47	0.44
45:ND:286:VAL:N	45:ND:287:PRO:CD	2.81	0.44
44:NG:60:LYS:CD	44:OG:282:TYR:HE2	2.28	0.44
44:NG:286:LEU:HB3	44:NG:291:ILE:HG21	1.99	0.44
44:NI:325:PRO:HG3	45:NL:222:TYR:CE2	2.52	0.44
45:NJ:101:TRP:CZ3	45:NJ:187:LEU:HB3	2.52	0.44
45:NJ:146:GLY:O	45:NJ:149:THR:HG22	2.17	0.44
45:NJ:318:ARG:HB3	45:NJ:358:PRO:HD3	1.98	0.44
44:NK:191:THR:HG21	44:NK:425:LEU:HD21	1.98	0.44
44:NK:322:ASP:OD1	44:NK:373:ARG:NE	2.32	0.44
45:NL:189:VAL:O	45:NL:193:VAL:HG12	2.16	0.44
44:NM:20:CYS:SG	44:NM:21:TRP:N	2.90	0.44
45:NN:48:ASN:HA	45:NN:51:TYR:O	2.17	0.44
45:NN:267:MET:HG3	45:NN:301:CYS:SG	2.56	0.44
44:OA:217:LEU:HA	44:OA:277:SER:HG	1.81	0.44
44:OA:392:ASP:O	44:OA:395:PHE:N	2.50	0.44
45:OB:260:PHE:HB2	45:OB:263:LEU:HD13	1.97	0.44
45:OB:377:MET:O	45:OB:381:VAL:HG23	2.17	0.44
45:OB:377:MET:HA	45:OB:380:ARG:HG2	1.98	0.44
44:OC:100:ALA:HB1	45:OD:252:LYS:HA	1.99	0.44
44:OC:362:VAL:HG21	44:OC:368:LEU:O	2.16	0.44
45:OD:170:VAL:CG1	45:OD:201:VAL:HG21	2.37	0.44
45:OD:259:PRO:HG3	45:OD:311:LEU:HD23	1.99	0.44
44:OE:237:SER:HB2	44:OE:376:CYS:CB	2.47	0.44
45:OF:35:THR:HB	45:OF:37:HIS:CE1	2.52	0.44
45:OF:65:LEU:HD22	45:OF:90:PHE:HE1	1.82	0.44
44:OG:234:VAL:HG22	44:OG:272:TYR:CD1	2.51	0.44
44:OG:242:LEU:HD11	44:OG:252:ILE:HG13	1.98	0.44
45:OH:69:GLU:OE2	45:OH:72:THR:HB	2.17	0.44
45:OH:207:LEU:HA	45:OH:210:ILE:HG22	1.99	0.44
44:OI:12:GLY:O	44:OI:16:VAL:HG22	2.17	0.44
45:OJ:201:VAL:O	45:OJ:202:ILE:HD13	2.17	0.44
45:OJ:240:LEU:HD12	45:OJ:249:ASP:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:274:PRO:N	44:OK:291:ILE:HD11	2.32	0.44
44:OM:60:LYS:HE3	44:PM:283:HIS:NE2	2.32	0.44
44:OM:288:VAL:HG11	44:OM:327:ASP:HB3	1.99	0.44
44:PA:171:ILE:HG23	44:PA:204:LEU:O	2.17	0.44
44:PA:225:THR:OG1	44:PA:226:ASN:N	2.50	0.44
45:PB:47:ILE:HD13	45:PB:59:TYR:CZ	2.52	0.44
44:PC:311:LYS:HE3	44:PC:342:GLN:HG3	1.96	0.44
45:PD:50:TYR:CE2	45:PD:241:ARG:HD3	2.52	0.44
45:PD:341:PHE:HD1	45:PD:348:ASN:HD21	1.64	0.44
44:PE:60:LYS:CE	44:QE:283:HIS:HA	2.46	0.44
45:PF:286:VAL:HG11	45:PF:325:GLU:O	2.16	0.44
45:PF:398:TYR:O	45:PF:403:MET:HB2	2.17	0.44
44:PG:296:PHE:HD2	44:PG:335:ILE:HD11	1.82	0.44
44:PG:348:PRO:HD2	45:PJ:388:MET:HE2	1.98	0.44
45:PH:35:THR:HB	45:PH:37:HIS:HE1	1.82	0.44
45:PH:86:ARG:NE	45:QF:281:TYR:HB3	2.33	0.44
45:PH:99:ASN:HA	45:PH:142:GLY:H	1.82	0.44
45:PH:238:CYS:SG	45:PH:239:CYS:N	2.90	0.44
44:PI:185:TYR:CZ	44:PI:398:MET:HG3	2.51	0.44
44:PI:407:TRP:HH2	45:PJ:254:ALA:HB1	1.82	0.44
45:PJ:67:ASP:HB2	45:PJ:73:MET:HE2	1.98	0.44
45:PJ:241:ARG:C	45:PJ:242:PHE:HD1	2.20	0.44
45:PJ:295:ASP:OD1	45:PJ:296:ALA:N	2.50	0.44
44:PK:73:THR:HG1	45:PL:247:ASN:ND2	2.14	0.44
45:PL:36:TYR:CE1	45:PL:44:LEU:HG	2.52	0.44
45:PL:286:VAL:HB	45:PL:325:GLU:OE2	2.17	0.44
44:PM:340:THR:HG23	44:PM:341:ILE:HG13	1.99	0.44
45:PN:31:ASP:N	45:PN:35:THR:O	2.45	0.44
45:PN:109:GLY:O	45:PN:113:ILE:HB	2.17	0.44
45:PN:178:THR:HG22	45:PN:180:VAL:HG12	1.98	0.44
44:QA:31:GLN:O	44:QA:34:GLY:N	2.41	0.44
45:QB:135:ILE:HG22	45:QB:137:HIS:ND1	2.32	0.44
44:QC:145:THR:HG22	46:QC:501:GTP:PB	2.57	0.44
44:QC:313:MET:HE3	44:QC:346:TRP:HZ3	1.81	0.44
45:QD:1:MET:HE1	44:QE:96:LYS:HD3	1.98	0.44
45:QD:99:ASN:HA	45:QD:142:GLY:N	2.32	0.44
45:QF:19:LYS:HG2	45:QF:227:HIS:N	2.32	0.44
45:QF:245:GLN:CG	45:QF:353:ILE:HG21	2.47	0.44
45:QF:352:SER:C	45:QF:353:ILE:HD12	2.37	0.44
44:QG:62:VAL:HG21	44:RG:283:HIS:C	2.37	0.44
44:QI:74:VAL:HG23	44:QI:75:ILE:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:191:THR:O	44:QI:194:LEU:HG	2.17	0.44
44:QI:344:VAL:HG11	44:QI:346:TRP:CE3	2.52	0.44
45:QJ:115:SER:O	45:QJ:119:VAL:HG22	2.17	0.44
45:QL:19:LYS:HG2	45:QL:227:HIS:HA	1.99	0.44
45:QL:317:PHE:CZ	45:QL:365:VAL:HG21	2.52	0.44
45:QL:417:ASP:CA	45:QL:420:SER:HG	2.30	0.44
45:QN:86:ARG:NH1	45:RN:281:TYR:HB3	2.32	0.44
44:RA:69:ASP:OD1	44:RA:94:SER:HA	2.16	0.44
45:RB:2:ARG:CZ	45:RB:240:LEU:HG	2.47	0.44
45:RB:374:ILE:HD12	45:RB:378:PHE:HE2	1.81	0.44
45:RB:385:PHE:CE2	45:RB:412:GLU:HB2	2.52	0.44
44:RC:3:GLU:OE2	44:RC:129:CYS:HB3	2.17	0.44
45:RD:5:VAL:HG11	45:RD:123:GLU:CG	2.46	0.44
45:RD:116:VAL:O	45:RD:119:VAL:HG12	2.16	0.44
44:RE:67:PHE:CB	44:RE:92:LEU:HD12	2.42	0.44
44:RE:88:HIS:HB3	44:RE:91:GLN:CG	2.47	0.44
44:RE:280:LYS:HD3	44:RE:283:HIS:ND1	2.32	0.44
44:RE:350:GLY:HA2	45:RF:179:VAL:CG1	2.47	0.44
45:RF:156:ARG:CD	45:RF:164:MET:HG3	2.47	0.44
45:RF:374:ILE:HG12	45:RF:422:TYR:CZ	2.51	0.44
44:RG:237:SER:HA	44:RG:320:ARG:NH1	2.32	0.44
45:RH:130:LEU:HD21	45:RH:133:PHE:CE1	2.52	0.44
44:RK:49:PHE:O	44:RK:53:PHE:HB2	2.18	0.44
44:RK:51:THR:HG23	44:RK:52:PHE:N	2.32	0.44
44:RK:60:LYS:HD3	44:SK:283:HIS:CD2	2.51	0.44
44:RK:370:LYS:O	44:RK:371:VAL:HG13	2.17	0.44
45:RL:139:LEU:N	45:RL:169:VAL:O	2.39	0.44
44:RM:277:SER:O	44:RM:281:ALA:HB2	2.17	0.44
45:RN:20:PHE:HB2	45:RN:233:MET:CE	2.47	0.44
45:SB:11:GLN:HB3	48:SB:501:GDP:PB	2.55	0.44
45:SB:91:VAL:HG11	45:SB:116:VAL:HA	1.98	0.44
45:SB:101:TRP:CE3	45:SB:187:LEU:HD13	2.52	0.44
45:SB:130:LEU:HD11	45:SB:133:PHE:CZ	2.52	0.44
45:SD:60:VAL:O	45:SD:60:VAL:HG13	2.17	0.44
45:SD:324:LYS:HG3	44:SE:210:TYR:CG	2.52	0.44
44:SE:72:PRO:HD3	44:SE:95:GLY:O	2.17	0.44
44:SE:237:SER:HA	44:SE:320:ARG:NH1	2.30	0.44
44:SE:290:GLU:HG3	44:SE:291:ILE:N	2.32	0.44
44:SE:326:LYS:HD3	45:SF:212:PHE:CZ	2.51	0.44
45:SF:255:VAL:O	44:SG:407:TRP:HZ3	2.00	0.44
45:SF:334:GLN:HA	45:SF:341:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:188:ILE:HD12	44:SG:425:LEU:CD1	2.47	0.44
46:SG:501:GTP:H8	46:SG:501:GTP:O1A	2.00	0.44
45:SH:143:THR:HG23	48:SH:501:GDP:O2B	2.17	0.44
44:SI:313:MET:CE	44:SI:346:TRP:HH2	2.30	0.44
44:SI:315:CYS:O	44:SI:351:PHE:HA	2.17	0.44
45:SJ:73:MET:CE	45:SJ:92:PHE:HA	2.47	0.44
45:SN:10:GLY:O	45:SN:14:ASN:ND2	2.49	0.44
45:SN:242:PHE:HD1	45:SN:356:ILE:HG12	1.82	0.44
45:SN:325:GLU:O	45:SN:328:GLU:HG2	2.18	0.44
44:TA:19:ALA:CB	44:TA:228:ASN:HB3	2.46	0.44
44:TC:214:ARG:HA	44:TC:219:ILE:O	2.18	0.44
44:TC:228:ASN:O	44:TC:231:ILE:HB	2.18	0.44
45:TD:228:LEU:HB3	45:TD:300:MET:HE3	1.99	0.44
44:TE:135:PHE:CB	44:TE:166:LYS:HA	2.43	0.44
45:TF:66:MET:HA	45:TF:91:VAL:HG23	2.00	0.44
44:TG:135:PHE:CZ	44:TG:157:LEU:HD11	2.52	0.44
44:TG:230:LEU:CD1	44:TG:275:ILE:HD13	2.47	0.44
44:TG:261:PRO:HA	45:TH:394:PHE:CE1	2.52	0.44
45:TH:6:HIS:NE2	45:TH:8:GLN:OE1	2.48	0.44
45:TH:61:PRO:HD2	45:TH:84:LEU:HB3	1.99	0.44
45:TH:299:MET:HG3	45:TH:305:PRO:HG3	1.99	0.44
45:TH:379:LYS:O	45:TH:382:ALA:HB3	2.17	0.44
44:TI:230:LEU:CD1	44:TI:368:LEU:HD21	2.46	0.44
44:TK:51:THR:HG21	44:TK:243:ARG:HB2	1.99	0.44
44:TK:88:HIS:HB3	44:TK:91:GLN:HG2	1.97	0.44
44:TK:313:MET:HE2	44:TK:380:ASN:CG	2.37	0.44
44:TK:387:VAL:HG12	44:TK:390:ARG:NH1	2.26	0.44
45:TL:66:MET:HE1	45:TL:147:MET:HB3	1.99	0.44
45:UB:52:ASN:O	45:UB:59:TYR:HA	2.17	0.44
45:UB:240:LEU:HD12	45:UB:249:ASP:HB2	1.99	0.44
44:UC:271:SER:O	44:UC:377:MET:HG2	2.17	0.44
45:UD:44:LEU:HD12	45:UD:44:LEU:N	2.32	0.44
45:UD:65:LEU:HB3	45:UD:73:MET:HE2	2.00	0.44
45:UD:295:ASP:CG	45:UD:297:LYS:HG2	2.38	0.44
45:UD:342:VAL:CG2	45:UD:344:TRP:NE1	2.79	0.44
44:UE:417:GLU:O	44:UE:420:GLU:HG2	2.17	0.44
45:UF:9:GLY:HA2	45:UF:66:MET:O	2.17	0.44
45:UF:319:GLY:HA2	45:UF:357:PRO:CG	2.47	0.44
44:UG:19:ALA:HB3	44:UG:228:ASN:HB3	1.99	0.44
44:UG:105:ARG:O	44:UG:109:THR:HG22	2.17	0.44
44:UG:223:THR:HG23	44:UG:225:THR:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:250:VAL:HG22	44:UG:352:LYS:NZ	2.32	0.44
44:UG:288:VAL:HG21	44:UG:327:ASP:HB3	1.99	0.44
45:UH:69:GLU:OE2	45:UH:72:THR:HB	2.17	0.44
44:UI:156:ARG:O	44:UI:159:VAL:HG12	2.17	0.44
44:UI:326:LYS:CE	45:UJ:220:PRO:HD2	2.46	0.44
45:UJ:6:HIS:CB	45:UJ:21:TRP:HZ2	2.31	0.44
45:UJ:18:ALA:O	45:UJ:22:GLU:HB2	2.17	0.44
45:UJ:318:ARG:HH11	45:UJ:358:PRO:HG3	1.82	0.44
45:UL:236:VAL:HG13	45:UL:253:LEU:HD22	1.98	0.44
45:UL:253:LEU:HD21	45:UL:316:LEU:HD11	1.99	0.44
44:UM:118:CYS:O	44:UM:121:ARG:HB3	2.17	0.44
44:VA:22:GLU:HA	44:VA:25:CYS:SG	2.57	0.44
44:VA:217:LEU:HD21	44:VA:275:ILE:HG23	1.99	0.44
44:VC:2:ARG:H	44:VC:2:ARG:HD3	1.82	0.44
44:VC:154:LEU:HD13	44:VC:194:LEU:HB3	1.99	0.44
44:VE:84:ARG:NE	44:VE:85:GLN:HE22	2.15	0.44
44:VE:276:ILE:HG12	44:VE:281:ALA:HB2	1.99	0.44
44:VG:56:THR:HA	44:WG:285:GLN:HB3	1.99	0.44
45:VH:86:ARG:HG3	45:VH:88:ASP:H	1.82	0.44
45:VH:131:GLN:HE22	45:VH:163:ILE:HD11	1.82	0.44
44:VI:204:LEU:HD22	44:VI:302:MET:HE2	2.00	0.44
45:VJ:280:GLN:O	45:VJ:280:GLN:HG3	2.17	0.44
44:VK:387:VAL:HG23	44:VK:388:PHE:N	2.32	0.44
45:VL:165:GLU:OE2	45:VL:250:LEU:HD13	2.16	0.44
45:VL:336:LYS:HD2	45:VL:336:LYS:N	2.31	0.44
44:VM:205:ASP:CG	44:VM:303:ALA:HA	2.37	0.44
44:VM:325:PRO:O	44:VM:328:VAL:HB	2.17	0.44
45:VN:110:ALA:HA	45:VN:113:ILE:HG22	1.99	0.44
45:VN:163:ILE:O	45:VN:163:ILE:HG13	2.16	0.44
45:VN:272:PRO:HD2	45:VN:361:LEU:HD13	1.99	0.44
45:WB:222:TYR:C	45:WB:226:ASN:HD22	2.20	0.44
45:WB:237:THR:HG1	45:WB:241:ARG:HG3	1.82	0.44
45:WB:330:MET:HB3	45:WB:349:ILE:HG21	1.99	0.44
44:WC:90:GLU:CG	44:WC:121:ARG:HH12	2.21	0.44
44:WC:137:VAL:O	44:WC:168:GLY:HA2	2.16	0.44
44:WE:141:VAL:CG1	44:WE:172:TYR:HA	2.47	0.44
45:WF:4:ILE:HG13	45:WF:50:TYR:HE1	1.81	0.44
45:WF:245:GLN:HG3	45:WF:353:ILE:CG2	2.47	0.44
44:WG:188:ILE:HG23	44:WG:425:LEU:HD11	1.98	0.44
44:WG:326:LYS:HD2	44:WG:327:ASP:N	2.32	0.44
45:WH:16:ILE:HA	45:WH:226:ASN:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WH:239:CYS:HA	45:WH:354:CYS:SG	2.58	0.44
45:WH:280:GLN:NE2	45:WH:281:TYR:CE1	2.85	0.44
44:WI:233:GLN:O	44:WI:236:SER:HB3	2.17	0.44
44:WI:407:TRP:HH2	45:WJ:254:ALA:O	2.00	0.44
45:WJ:184:ASN:OD1	45:WJ:185:ALA:N	2.50	0.44
44:WK:247:ALA:H	44:WK:357:TYR:HE2	1.65	0.44
45:WL:10:GLY:CA	45:WL:144:GLY:HA2	2.47	0.44
45:WL:302:ALA:HB3	45:WL:377:MET:HE1	1.99	0.44
45:WL:376:GLU:HA	45:WL:379:LYS:NZ	2.31	0.44
44:WM:1:MET:O	44:WM:131:GLY:HA3	2.16	0.44
4:0C:81:TYR:HA	45:EH:356:ILE:HD12	1.95	0.44
5:0D:170:PRO:HB3	44:EC:80:THR:CG2	2.28	0.44
4:1C:48:ARG:O	45:EL:285:THR:HG21	2.16	0.44
20:1J:250:LEU:CD2	44:II:280:LYS:HG3	2.46	0.44
20:1J:295:GLY:CA	44:IK:226:ASN:ND2	2.81	0.44
22:1L:148:ARG:NH2	45:CH:39:ASP:HB3	2.31	0.44
22:1L:894:ARG:HH11	44:CC:365:GLY:HA3	1.80	0.44
25:1P:248:LYS:O	45:TF:280:GLN:NE2	2.50	0.44
15:1V:95:SER:H	45:LJ:262:ARG:HD3	1.81	0.44
27:1W:77:GLN:HG2	44:LE:372:MET:SD	2.56	0.44
29:2F:85:MET:HG2	44:GE:117:LEU:HD22	1.99	0.44
31:2H:222:LYS:HG2	44:MC:80:THR:CG2	2.46	0.44
32:3I:204:TYR:OH	44:FK:160:ASP:HB3	2.18	0.44
32:3I:254:ARG:HH11	44:FI:79:ARG:HH21	1.64	0.44
15:3V:238:LYS:NZ	45:WD:218:THR:HB	2.32	0.44
16:3X:129:ILE:HG23	45:ML:280:GLN:OE1	2.16	0.44
37:5A:141:SER:HA	45:ND:320:ARG:CZ	2.40	0.44
37:5B:147:TYR:HE1	44:NG:229:ARG:HH21	1.64	0.44
37:5D:58:TYR:CZ	45:KN:179:VAL:HG22	2.51	0.44
38:5F:62:TYR:OH	45:OF:362:LYS:HE2	2.17	0.44
39:5K:25:VAL:O	39:5K:28:LYS:HB2	2.16	0.44
35:5R:302:LEU:HG	45:CJ:78:ALA:CB	2.47	0.44
35:5R:418:THR:HG23	35:5R:419:GLN:N	2.33	0.44
35:5R:470:PHE:HD2	35:5R:471:LEU:HG	1.70	0.44
35:5R:534:HIS:ND1	35:5R:578:TYR:OH	2.48	0.44
35:5R:557:ASP:CG	35:5R:561:ARG:H	2.20	0.44
40:6F:73:GLU:O	40:6F:74:ASN:HB2	2.18	0.44
41:6G:156:LYS:O	41:6G:157:LEU:HD12	2.17	0.44
41:6G:177:ARG:CD	41:6G:179:ILE:HG12	2.47	0.44
35:6R:514:LYS:CD	44:EM:39:ASP:OD2	2.64	0.44
35:7R:64:ASP:O	35:7R:65:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:538:PHE:HE2	35:7R:576:LEU:HD22	1.82	0.44
35:7R:567:ASN:OD1	35:7R:568:ASP:N	2.50	0.44
44:AC:387:VAL:HG22	44:AC:390:ARG:HH11	1.82	0.44
45:AD:117:LEU:HD22	45:AD:154:LYS:NZ	2.33	0.44
45:AD:216:LYS:HE2	45:AD:216:LYS:HB2	1.57	0.44
45:AF:134:GLN:O	45:AF:134:GLN:HG3	2.17	0.44
44:AI:21:TRP:O	44:AI:25:CYS:HB2	2.17	0.44
45:AJ:169:VAL:HG23	45:AJ:169:VAL:O	2.18	0.44
45:AJ:183:TYR:OH	45:AJ:388:MET:HB3	2.17	0.44
45:AL:210:ILE:HD11	45:AL:298:ASN:O	2.17	0.44
45:AL:268:ILE:HG13	45:AL:300:MET:CE	2.48	0.44
44:AM:105:ARG:NH2	44:AM:110:ILE:HD11	2.32	0.44
44:AM:115:VAL:CG2	44:AM:156:ARG:HD2	2.47	0.44
44:AM:265:ILE:HD11	44:AM:435:VAL:HG21	1.99	0.44
44:AM:372:MET:HG3	44:AM:373:ARG:HG3	1.98	0.44
45:AN:86:ARG:HE	45:AN:87:PRO:CD	2.30	0.44
45:AN:330:MET:O	45:AN:333:VAL:HG12	2.17	0.44
44:BA:101:ASN:HA	44:BA:144:GLY:CA	2.38	0.44
45:BB:262:ARG:NH1	45:BB:421:GLU:OE1	2.51	0.44
44:BE:22:GLU:OE2	44:BE:83:TYR:HE2	2.00	0.44
44:BE:105:ARG:HA	44:BE:109:THR:OG1	2.16	0.44
44:BG:70:LEU:HD13	44:BG:110:ILE:HD12	1.99	0.44
44:BG:102:ASN:CB	44:BG:105:ARG:HG3	2.47	0.44
45:BH:178:THR:O	45:BH:181:GLU:HG3	2.17	0.44
44:BI:13:GLY:HA2	44:BI:16:VAL:HG12	1.98	0.44
44:BI:56:THR:O	44:BI:56:THR:HG23	2.16	0.44
44:BI:101:ASN:OD1	45:BJ:252:LYS:HG3	2.17	0.44
44:BI:141:VAL:HG21	44:BI:172:TYR:HE1	1.81	0.44
44:BI:210:TYR:HE2	45:BJ:324:LYS:HA	1.81	0.44
45:BJ:1:MET:C	45:BJ:2:ARG:HG2	2.38	0.44
45:BJ:86:ARG:O	45:BJ:89:ASN:N	2.50	0.44
45:BJ:211:CYS:O	45:BJ:215:LEU:HB2	2.17	0.44
45:BJ:309:ARG:HD3	45:BJ:339:SER:O	2.17	0.44
44:BK:294:SER:HA	44:BK:297:GLU:OE2	2.17	0.44
45:BL:329:GLN:O	45:BL:332:ASN:HB3	2.17	0.44
45:BL:383:GLU:O	45:BL:386:THR:OG1	2.27	0.44
44:BM:284:GLU:CD	44:BM:286:LEU:H	2.17	0.44
44:BM:288:VAL:HA	44:BM:291:ILE:CG1	2.46	0.44
45:CB:11:GLN:N	48:CB:501:GDP:O1A	2.49	0.44
45:CB:165:GLU:HG2	45:CB:198:GLU:OE1	2.17	0.44
44:CC:236:SER:O	44:CC:240:ALA:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:49:VAL:HG12	45:CD:50:TYR:CE1	2.52	0.44
44:CE:7:ILE:CD1	44:CE:66:VAL:HG11	2.47	0.44
44:CE:183:GLU:HG2	44:CE:184:PRO:N	2.32	0.44
44:CE:350:GLY:HA2	45:CF:179:VAL:CG2	2.47	0.44
45:CF:255:VAL:HG21	44:CG:100:ALA:O	2.17	0.44
45:CF:391:ARG:HA	45:CF:391:ARG:HD2	1.81	0.44
44:CG:258:ASN:OD1	45:CH:179:VAL:CG2	2.65	0.44
45:CH:324:LYS:HG3	44:CI:210:TYR:CD2	2.52	0.44
44:CI:145:THR:HG23	46:CI:501:GTP:O2G	2.17	0.44
44:CI:217:LEU:HD22	44:CI:277:SER:HB3	1.99	0.44
44:CI:350:GLY:C	45:CJ:179:VAL:HG12	2.38	0.44
45:CJ:309:ARG:H	45:CJ:372:THR:HG22	1.82	0.44
45:CL:256:ASN:HD22	45:CL:350:LYS:HZ3	1.63	0.44
44:CM:71:GLU:OE1	44:CM:73:THR:HB	2.15	0.44
44:CM:97:GLU:CG	44:CM:105:ARG:HH22	2.31	0.44
45:CN:342:VAL:HG21	45:CN:344:TRP:CD1	2.51	0.44
44:DA:141:VAL:HG11	44:DA:173:PRO:HD3	2.00	0.44
44:DA:346:TRP:CG	45:DB:391:ARG:HG3	2.52	0.44
45:DB:245:GLN:C	45:DB:246:LEU:HD12	2.37	0.44
45:DD:240:LEU:HD12	45:DD:249:ASP:HB2	1.99	0.44
45:DD:378:PHE:CB	45:DD:419:VAL:HG22	2.46	0.44
44:DE:205:ASP:OD2	44:DE:303:ALA:HB1	2.17	0.44
44:DE:265:ILE:HD12	44:DE:432:TYR:CD1	2.53	0.44
45:DF:256:ASN:HD22	45:DF:350:LYS:CE	2.30	0.44
45:DH:391:ARG:HA	45:DH:391:ARG:HD2	1.77	0.44
44:DI:428:LEU:HD21	44:DI:432:TYR:CE2	2.46	0.44
45:DJ:4:ILE:HG22	45:DJ:132:GLY:H	1.82	0.44
45:DJ:264:HIS:O	45:DJ:264:HIS:ND1	2.45	0.44
44:DK:348:PRO:HB2	45:DL:384:GLN:OE1	2.17	0.44
45:DL:58:ARG:CZ	45:EL:281:TYR:HE1	2.31	0.44
45:DL:99:ASN:OD1	45:DL:99:ASN:N	2.50	0.44
45:DL:302:ALA:HB3	45:DL:376:GLU:OE2	2.16	0.44
45:DL:325:GLU:HB2	44:DM:221:ARG:NH1	2.32	0.44
44:DM:66:VAL:O	44:DM:66:VAL:HG13	2.17	0.44
44:DM:259:LEU:HD11	44:DM:316:SER:CB	2.47	0.44
44:EA:112:LYS:O	44:EA:115:VAL:HG12	2.17	0.44
44:EA:210:TYR:CE1	44:EA:227:LEU:HD11	2.52	0.44
44:EA:280:LYS:O	44:EA:283:HIS:HB2	2.17	0.44
44:EA:294:SER:HA	44:EA:297:GLU:OE2	2.17	0.44
45:EB:7:ILE:HD13	45:EB:135:ILE:CD1	2.48	0.44
45:EB:329:GLN:O	45:EB:333:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:6:HIS:C	45:ED:7:ILE:HG13	2.36	0.44
45:ED:254:ALA:HA	45:ED:258:ILE:HD13	1.98	0.44
45:ED:272:PRO:O	45:ED:273:LEU:HG	2.16	0.44
44:EE:321:GLY:HA3	44:EE:373:ARG:NH2	2.32	0.44
45:EF:362:LYS:O	45:EF:363:MET:HG2	2.18	0.44
45:EH:178:THR:HG22	45:EH:180:VAL:HG12	1.98	0.44
44:EI:209:ILE:CG2	44:EI:227:LEU:HD22	2.45	0.44
45:EJ:217:LEU:HD11	45:EJ:220:PRO:CG	2.45	0.44
44:EK:15:GLN:O	44:EK:18:ASN:HB3	2.16	0.44
44:EK:203:MET:HG3	44:EK:384:ILE:HD11	1.99	0.44
44:EM:88:HIS:CG	44:EM:89:PRO:HD2	2.53	0.44
44:EM:88:HIS:ND1	44:EM:89:PRO:HD2	2.33	0.44
44:FA:306:ASP:HB3	44:FA:309:HIS:CE1	2.53	0.44
44:FA:439:THR:HG21	45:FD:390:ARG:CD	2.47	0.44
45:FB:2:ARG:HB2	45:FB:131:GLN:OE1	2.17	0.44
45:FB:295:ASP:OD1	45:FB:297:LYS:HG2	2.17	0.44
45:FB:344:TRP:CZ3	45:FB:345:ILE:HB	2.52	0.44
44:FC:82:THR:HG23	44:FC:83:TYR:CD1	2.52	0.44
44:FC:221:ARG:CD	45:FD:322:SER:OG	2.65	0.44
44:FC:222:PRO:HB2	44:FC:226:ASN:HB2	1.98	0.44
45:FF:325:GLU:HA	45:FF:328:GLU:CD	2.36	0.44
44:FG:128:ASN:HD21	44:GG:285:GLN:HE21	1.64	0.44
44:FG:319:TYR:CE2	44:FG:328:VAL:HG22	2.52	0.44
44:FK:176:GLN:HG3	45:FL:331:LEU:HD21	2.00	0.44
44:FM:20:CYS:SG	44:FM:232:ALA:HB1	2.58	0.44
44:FM:52:PHE:O	44:FM:63:PRO:HA	2.17	0.44
44:FM:269:LEU:CD1	44:FM:301:MET:HG2	2.43	0.44
45:FN:73:MET:CA	45:FN:76:VAL:HG12	2.47	0.44
45:GB:4:ILE:HB	45:GB:132:GLY:O	2.15	0.44
45:GB:12:CYS:O	45:GB:16:ILE:HG13	2.18	0.44
44:GC:71:GLU:CD	44:GC:73:THR:H	2.15	0.44
44:GC:291:ILE:HG23	44:GC:292:THR:N	2.32	0.44
44:GC:408:TYR:O	44:GC:413:MET:HE1	2.17	0.44
45:GD:32:PRO:HG3	45:GD:81:PHE:CZ	2.52	0.44
44:GE:2:ARG:NH1	45:GH:70:PRO:HG2	2.33	0.44
44:GE:387:VAL:O	44:GE:391:LEU:HD13	2.18	0.44
44:GG:183:GLU:CG	44:GG:184:PRO:HD3	2.48	0.44
45:GH:213:ARG:HH21	45:GH:297:LYS:HD2	1.82	0.44
45:GH:310:TYR:CE1	45:GH:371:SER:HB2	2.52	0.44
44:GI:260:VAL:HG12	44:GI:262:TYR:O	2.16	0.44
44:GI:304:LYS:NZ	44:GI:390:ARG:HH22	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:372:MET:HA	44:GI:372:MET:CE	2.47	0.44
45:GJ:303:ALA:HB2	45:GJ:377:MET:HE3	1.99	0.44
45:GJ:304:ASP:OD2	45:GJ:307:HIS:NE2	2.51	0.44
45:GJ:325:GLU:HA	45:GJ:328:GLU:OE2	2.18	0.44
45:GJ:374:ILE:HD11	45:GJ:422:TYR:OH	2.18	0.44
45:GL:66:MET:SD	45:GL:116:VAL:HG21	2.57	0.44
45:GL:101:TRP:NE1	45:GL:105:HIS:HB2	2.32	0.44
45:GN:186:THR:HG23	45:GN:415:MET:SD	2.57	0.44
44:HA:13:GLY:O	44:HA:16:VAL:HG12	2.17	0.44
45:HB:210:ILE:HG12	45:HB:297:LYS:O	2.17	0.44
45:HB:271:ALA:O	45:HB:364:ALA:HB1	2.17	0.44
44:HC:205:ASP:CG	44:HC:304:LYS:H	2.21	0.44
45:HD:105:HIS:CG	45:HD:150:LEU:HD12	2.52	0.44
44:HE:370:LYS:HD3	44:HE:372:MET:CE	2.47	0.44
44:HE:394:LYS:NZ	45:HF:346:PRO:HB2	2.32	0.44
44:HG:1:MET:HE3	45:HJ:94:GLN:HG3	1.98	0.44
44:HG:437:ILE:HG13	44:HG:437:ILE:O	2.17	0.44
45:HH:3:GLU:HG3	45:HH:62:ARG:NH1	2.33	0.44
45:HH:266:PHE:HD1	45:HH:370:ASN:HD21	1.63	0.44
45:HH:319:GLY:HA2	45:HH:355:ASP:O	2.16	0.44
44:HI:300:ASN:O	44:HI:300:ASN:OD1	2.35	0.44
44:HI:346:TRP:HZ3	45:HL:394:PHE:HE1	1.65	0.44
44:HI:406:HIS:CD2	45:HJ:261:PRO:HD3	2.52	0.44
44:HI:421:ALA:O	44:HI:424:ASP:HB2	2.17	0.44
45:HJ:161:ASP:OD1	45:HJ:162:ARG:N	2.49	0.44
44:HK:234:VAL:O	44:HK:237:SER:HB2	2.17	0.44
44:HK:288:VAL:HG13	44:HK:289:ALA:N	2.32	0.44
45:HL:109:GLY:O	45:HL:113:ILE:HB	2.16	0.44
45:HL:180:VAL:HG22	45:HL:183:TYR:HB2	1.98	0.44
44:HM:115:VAL:HG22	44:HM:156:ARG:HD2	1.98	0.44
44:HM:241:SER:CA	44:HM:242:LEU:CB	2.95	0.44
44:HM:314:ALA:N	44:HM:380:ASN:HB3	2.26	0.44
45:IB:205:GLU:O	45:IB:208:TYR:N	2.49	0.44
44:IC:66:VAL:HG13	44:IC:66:VAL:O	2.16	0.44
44:IC:89:PRO:CD	45:JD:281:TYR:HD2	2.30	0.44
44:IC:256:GLN:HE22	45:IF:397:TRP:HH2	1.64	0.44
45:ID:286:VAL:CG2	45:ID:321:MET:HG2	2.47	0.44
44:IE:88:HIS:ND1	45:JF:281:TYR:HB3	2.32	0.44
44:IE:288:VAL:O	44:IE:291:ILE:HG12	2.17	0.44
44:IE:306:ASP:HB3	44:IE:309:HIS:CE1	2.53	0.44
44:IG:24:PHE:HZ	44:IG:235:ILE:CG2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:107:HIS:O	44:IG:107:HIS:ND1	2.37	0.44
44:IG:372:MET:HB2	44:IG:373:ARG:HD2	1.98	0.44
45:IH:36:TYR:C	45:IH:37:HIS:HD1	2.19	0.44
45:IH:141:GLY:HA3	48:IH:502:GDP:PA	2.57	0.44
45:IH:183:TYR:O	45:IH:186:THR:HG22	2.17	0.44
45:IH:386:THR:HG23	45:IH:387:ALA:N	2.31	0.44
44:II:153:LEU:O	44:II:157:LEU:HG	2.17	0.44
45:IJ:97:ALA:HB2	45:IJ:143:THR:HB	1.97	0.44
44:IK:326:LYS:HE2	45:IN:218:THR:O	2.17	0.44
45:IL:28:HIS:NE2	45:IL:241:ARG:HD2	2.33	0.44
45:IL:65:LEU:HD22	45:IL:90:PHE:CE1	2.53	0.44
45:IL:130:LEU:HD11	45:IL:133:PHE:CE1	2.52	0.44
45:IL:268:ILE:CG2	45:IL:368:VAL:HG22	2.42	0.44
45:IN:131:GLN:HG3	45:IN:163:ILE:CD1	2.47	0.44
45:IN:134:GLN:C	45:IN:135:ILE:HD13	2.37	0.44
45:IN:170:VAL:HG13	45:IN:170:VAL:O	2.16	0.44
45:JB:22:GLU:OE2	45:JB:81:PHE:HB2	2.15	0.44
45:JB:244:GLY:HA2	45:JB:355:ASP:CG	2.38	0.44
45:JB:253:LEU:O	45:JB:257:LEU:HB2	2.17	0.44
44:JC:229:ARG:HH11	44:JC:229:ARG:HG2	1.82	0.44
45:JD:33:THR:OG1	45:JD:35:THR:HG22	2.17	0.44
45:JD:134:GLN:O	45:JD:135:ILE:HD13	2.17	0.44
45:JD:296:ALA:CA	45:JD:299:MET:HE1	2.42	0.44
44:JE:311:LYS:HD3	44:JE:342:GLN:NE2	2.31	0.44
45:JF:130:LEU:HD23	45:JF:162:ARG:HG3	1.99	0.44
45:JF:391:ARG:HG3	45:JF:391:ARG:HH11	1.82	0.44
45:JH:204:ASN:ND2	48:JH:501:GDP:N3	2.65	0.44
45:JJ:231:ALA:HB1	45:JJ:270:PHE:HE1	1.76	0.44
45:JL:316:LEU:HB2	45:JL:366:THR:HG23	1.98	0.44
44:JM:105:ARG:HG2	44:JM:109:THR:HG21	1.99	0.44
44:JM:277:SER:OG	44:JM:279:GLU:HG2	2.17	0.44
45:JN:49:VAL:HG21	45:JN:241:ARG:HG2	1.99	0.44
45:JN:330:MET:CA	45:JN:333:VAL:HG12	2.42	0.44
45:KB:207:LEU:HA	45:KB:210:ILE:HD12	1.98	0.44
44:KC:71:GLU:CD	45:KD:247:ASN:HD22	2.20	0.44
45:KD:148:GLY:O	45:KD:152:ILE:HG13	2.17	0.44
44:KE:7:ILE:HG13	44:KE:66:VAL:HG21	1.98	0.44
44:KE:66:VAL:HG12	44:KE:92:LEU:HD21	2.00	0.44
44:KE:212:ILE:HD13	44:KE:302:MET:HE2	1.99	0.44
44:KI:17:GLY:HA2	44:KI:20:CYS:SG	2.58	0.44
44:KI:204:LEU:CD1	44:KI:231:ILE:HD12	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KJ:24:ILE:HG22	45:KJ:51:TYR:OH	2.17	0.44
45:KJ:172:SER:HB2	45:KJ:174:LYS:HZ3	1.81	0.44
44:KK:141:VAL:HG23	44:KK:190:SER:OG	2.16	0.44
45:KL:260:PHE:HB3	45:KL:261:PRO:HD2	1.98	0.44
45:KL:340:TYR:O	45:KL:341:PHE:HD1	2.01	0.44
44:KM:9:VAL:HG22	44:KM:10:GLY:N	2.32	0.44
44:LA:141:VAL:HG11	44:LA:190:SER:OG	2.17	0.44
45:LB:4:ILE:HG22	45:LB:131:GLN:HB2	1.98	0.44
45:LB:51:TYR:CD1	45:LB:61:PRO:HG3	2.52	0.44
45:LB:130:LEU:HD21	45:LB:133:PHE:HE1	1.81	0.44
45:LB:152:ILE:HA	45:LB:155:VAL:CG1	2.47	0.44
44:LC:143:GLY:HA3	46:LC:501:GTP:O2B	2.17	0.44
44:LE:71:GLU:OE2	44:LE:73:THR:OG1	2.33	0.44
45:LF:404:ASP:OD1	45:LF:407:GLU:HG2	2.17	0.44
44:LG:132:LEU:HD21	44:LG:135:PHE:CZ	2.52	0.44
44:LG:161:TYR:HB3	44:LG:164:LYS:HZ1	1.82	0.44
44:LG:275:ILE:O	44:LG:275:ILE:CG2	2.64	0.44
44:LG:397:LEU:HD21	45:LH:343:GLU:O	2.17	0.44
44:LI:105:ARG:HG2	44:LI:109:THR:HG21	1.98	0.44
44:LI:105:ARG:O	44:LI:110:ILE:HG12	2.17	0.44
45:LJ:3:GLU:HG3	45:LJ:127:CYS:HB2	2.00	0.44
45:LL:146:GLY:O	45:LL:149:THR:HG22	2.17	0.44
44:LM:291:ILE:HD13	44:LM:373:ARG:HB3	2.00	0.44
44:LM:319:TYR:HB2	44:LM:355:ILE:HA	2.00	0.44
44:MA:285:GLN:HG3	44:MA:287:SER:H	1.82	0.44
44:MA:348:PRO:HD3	45:MD:388:MET:HG2	1.99	0.44
45:MB:268:ILE:HG22	45:MB:367:PHE:O	2.18	0.44
45:MD:46:ARG:HG3	45:MD:46:ARG:O	2.17	0.44
44:MG:103:PHE:HB3	44:MG:408:TYR:CE2	2.52	0.44
44:MG:284:GLU:OE2	44:MG:286:LEU:HD23	2.17	0.44
45:MH:213:ARG:HG2	45:MH:297:LYS:HE2	1.99	0.44
44:MI:27:GLU:CD	44:MI:243:ARG:HH12	2.20	0.44
45:MN:19:LYS:O	45:MN:22:GLU:HB2	2.17	0.44
45:MN:152:ILE:CA	45:MN:155:VAL:HG22	2.45	0.44
44:NA:79:ARG:HG3	44:NA:92:LEU:CD2	2.48	0.44
45:NB:325:GLU:HG2	45:NB:328:GLU:OE2	2.17	0.44
44:NC:175:PRO:HD2	44:NC:207:GLU:CD	2.38	0.44
45:NF:146:GLY:CA	45:NF:149:THR:HG22	2.47	0.44
45:NH:4:ILE:HG22	45:NH:5:VAL:N	2.32	0.44
44:NI:88:HIS:HB3	44:NI:91:GLN:CD	2.37	0.44
44:NI:315:CYS:HA	44:NI:379:SER:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:5:ILE:HB	44:NK:135:PHE:CD2	2.52	0.44
44:NK:71:GLU:CD	45:NL:247:ASN:HD21	2.17	0.44
44:NK:348:PRO:HD2	45:NN:388:MET:CE	2.46	0.44
45:NL:345:ILE:O	45:NL:345:ILE:HG23	2.16	0.44
44:NM:280:LYS:O	44:NM:280:LYS:CD	2.60	0.44
44:NM:283:HIS:HE1	44:NM:372:MET:HG2	1.76	0.44
44:NM:298:PRO:HA	44:NM:301:MET:HE2	1.99	0.44
44:NM:363:VAL:HG13	44:NM:366:GLY:H	1.82	0.44
44:NM:421:ALA:O	44:NM:425:LEU:HD23	2.17	0.44
44:NM:425:LEU:HA	44:NM:428:LEU:CG	2.47	0.44
45:NN:248:SER:HB2	45:NN:253:LEU:CD1	2.47	0.44
45:OB:49:VAL:O	45:OB:62:ARG:NH1	2.50	0.44
45:OB:113:ILE:HG13	45:OB:116:VAL:CG1	2.47	0.44
44:OE:4:VAL:HG23	44:OE:134:GLY:O	2.17	0.44
45:OF:286:VAL:HG23	45:OF:287:PRO:CD	2.41	0.44
44:OG:119:LEU:HA	44:OG:122:ILE:CG2	2.47	0.44
44:OG:195:LEU:HD11	44:OG:264:ARG:NH2	2.31	0.44
44:OG:223:THR:HG23	44:OG:225:THR:H	1.81	0.44
44:OG:223:THR:HG22	44:OG:226:ASN:OD1	2.17	0.44
44:OG:295:ALA:HB1	44:OG:377:MET:CE	2.41	0.44
44:OI:11:GLN:O	44:OI:14:ILE:HB	2.17	0.44
44:OI:89:PRO:HG2	44:PI:280:LYS:CD	2.47	0.44
44:OI:286:LEU:HD13	44:OI:371:VAL:HG11	1.98	0.44
44:OI:387:VAL:HA	44:OI:390:ARG:HG2	1.98	0.44
45:OJ:392:LYS:HA	45:OJ:395:LEU:HD12	2.00	0.44
44:OK:56:THR:C	44:PK:285:GLN:HB3	2.38	0.44
44:OK:289:ALA:O	44:OK:293:ASN:HB2	2.17	0.44
44:OM:218:ASP:HB2	44:OM:280:LYS:NZ	2.30	0.44
45:ON:163:ILE:HG22	45:ON:164:MET:H	1.82	0.44
45:ON:178:THR:HG22	45:ON:180:VAL:HG22	1.99	0.44
44:PA:145:THR:HG22	46:PA:501:GTP:O2G	2.16	0.44
45:PB:36:TYR:CD1	45:PB:44:LEU:HD21	2.52	0.44
44:PC:101:ASN:ND2	45:PD:252:LYS:HE3	2.31	0.44
45:PD:36:TYR:CD1	45:PD:44:LEU:HD11	2.53	0.44
45:PD:391:ARG:HA	45:PD:391:ARG:HD2	1.79	0.44
44:PE:12:GLY:O	44:PE:16:VAL:HG13	2.17	0.44
44:PE:71:GLU:OE2	44:PE:73:THR:OG1	2.18	0.44
44:PE:215:ARG:HG2	44:PE:216:ASN:OD1	2.17	0.44
44:PE:239:THR:O	44:PE:243:ARG:NE	2.49	0.44
44:PE:252:ILE:HA	44:PE:255:PHE:HD2	1.83	0.44
44:PE:265:ILE:HG23	44:PE:432:TYR:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:326:LYS:HB2	45:PH:220:PRO:HG2	1.97	0.44
45:PF:256:ASN:HB3	45:PF:257:LEU:CD1	2.40	0.44
45:PF:319:GLY:CA	45:PF:357:PRO:HG3	2.28	0.44
45:PH:4:ILE:HG22	45:PH:132:GLY:H	1.81	0.44
45:PH:284:LEU:HB3	45:PH:363:MET:HE1	1.99	0.44
45:PH:312:THR:HA	45:PH:348:ASN:HB2	1.99	0.44
45:PH:325:GLU:HA	45:PH:328:GLU:OE2	2.16	0.44
44:PI:72:PRO:HB3	44:PI:94:SER:OG	2.18	0.44
44:PI:145:THR:OG1	46:PI:501:GTP:PB	2.75	0.44
44:PI:413:MET:HE3	44:PI:417:GLU:HG3	1.99	0.44
44:PK:174:SER:HB3	44:PK:207:GLU:HB2	1.98	0.44
45:PL:263:LEU:HG	45:PL:422:TYR:HD1	1.81	0.44
45:PL:388:MET:O	45:PL:393:ALA:HB3	2.18	0.44
45:PN:8:GLN:HE21	45:PN:65:LEU:CD1	2.29	0.44
45:PN:105:HIS:ND1	45:PN:105:HIS:O	2.49	0.44
44:QA:14:ILE:HG21	44:QA:74:VAL:CG2	2.48	0.44
44:QA:329:ASN:ND2	45:QB:175:VAL:HB	2.32	0.44
45:QB:99:ASN:CA	45:QB:142:GLY:H	2.30	0.44
45:QB:377:MET:O	45:QB:381:VAL:HG23	2.17	0.44
44:QE:230:LEU:O	44:QE:234:VAL:HG23	2.18	0.44
45:QF:139:LEU:HA	45:QF:145:SER:HB3	1.98	0.44
44:QG:103:PHE:HD1	44:QG:147:SER:OG	1.99	0.44
44:QG:340:THR:C	44:QG:341:ILE:HD13	2.37	0.44
45:QH:216:LYS:HB2	45:QH:275:SER:CB	2.48	0.44
44:QI:97:GLU:HG2	44:QI:105:ARG:HH22	1.82	0.44
44:QI:183:GLU:HG2	44:QI:184:PRO:N	2.32	0.44
44:QI:336:LYS:HB3	44:QI:336:LYS:HE2	1.69	0.44
45:QJ:168:SER:CB	45:QJ:201:VAL:HG12	2.46	0.44
45:QJ:210:ILE:HD13	45:QJ:300:MET:HE1	1.98	0.44
45:QJ:382:ALA:O	45:QJ:386:THR:HG23	2.17	0.44
44:QK:344:VAL:HG12	44:QK:345:ASP:N	2.32	0.44
45:QL:269:GLY:HA2	45:QL:300:MET:HE1	1.98	0.44
45:QN:175:VAL:HG22	45:QN:205:GLU:HB2	1.99	0.44
44:RA:328:VAL:HG12	44:RA:332:ILE:HD11	1.98	0.44
45:RB:142:GLY:HA2	45:RB:184:ASN:ND2	2.31	0.44
44:RC:14:ILE:HD11	44:RC:69:ASP:HB2	2.00	0.44
44:RC:233:GLN:HA	44:RC:236:SER:HB3	1.98	0.44
45:RD:210:ILE:HD11	45:RD:299:MET:O	2.17	0.44
45:RD:285:THR:CB	45:RD:287:PRO:HD2	2.43	0.44
45:RD:375:GLN:HE21	45:RD:379:LYS:CG	2.20	0.44
45:RF:172:SER:OG	45:RF:175:VAL:HG22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RG:184:PRO:HG2	44:RG:398:MET:HE1	2.00	0.44
45:RJ:143:THR:HG22	48:RJ:501:GDP:O2B	2.17	0.44
45:RJ:201:VAL:HG11	45:RJ:377:MET:SD	2.58	0.44
45:RJ:347:ASN:HB2	44:RK:183:GLU:OE2	2.17	0.44
44:RK:128:ASN:ND2	44:SK:285:GLN:HE21	2.15	0.44
44:RK:167:LEU:HD11	44:RK:252:ILE:CG2	2.47	0.44
45:RL:119:VAL:O	45:RL:122:LYS:HB3	2.17	0.44
45:RL:314:SER:HG	45:RL:315:ALA:N	2.15	0.44
44:RM:278:ALA:CA	44:RM:369:ALA:HB2	2.47	0.44
44:RM:348:PRO:HB3	45:RN:384:GLN:HG2	1.98	0.44
44:SA:219:ILE:HG22	44:SA:220:GLU:N	2.32	0.44
44:SA:401:LYS:HB2	44:SA:401:LYS:HE3	1.73	0.44
45:SB:291:GLN:NE2	45:SB:292:GLN:HB3	2.33	0.44
44:SC:312:TYR:HB2	44:SC:343:PHE:CD1	2.51	0.44
44:SC:319:TYR:CE2	44:SC:375:VAL:HG23	2.52	0.44
44:SE:117:LEU:O	44:SE:120:ASP:N	2.51	0.44
44:SE:223:THR:O	44:SE:224:TYR:C	2.56	0.44
45:SF:313:ALA:CB	45:SF:369:GLY:HA3	2.46	0.44
44:SI:154:LEU:O	44:SI:157:LEU:HB2	2.17	0.44
44:SI:174:SER:OG	44:SI:207:GLU:HB2	2.17	0.44
44:SK:115:VAL:HG22	44:SK:119:LEU:CD2	2.47	0.44
44:SK:313:MET:CE	44:SK:382:THR:HG22	2.47	0.44
45:SL:416:ASN:HA	45:SL:419:VAL:HB	1.97	0.44
44:SM:348:PRO:HD2	45:SN:388:MET:HE3	1.98	0.44
45:SN:105:HIS:HA	45:SN:150:LEU:CD1	2.45	0.44
45:SN:230:SER:HA	45:SN:233:MET:CE	2.47	0.44
44:TA:63:PRO:HB2	44:TA:87:PHE:CE1	2.53	0.44
45:TB:86:ARG:NH1	45:UB:281:TYR:HB3	2.31	0.44
45:TB:185:ALA:O	45:TB:189:VAL:HG23	2.17	0.44
44:TC:317:MET:SD	44:TC:317:MET:N	2.90	0.44
45:TD:374:ILE:HD12	45:TD:378:PHE:HE2	1.82	0.44
44:TE:111:GLY:HA2	44:TE:149:LEU:CD2	2.47	0.44
44:TE:142:GLY:O	46:TE:501:GTP:H4'	2.18	0.44
44:TE:199:ASP:O	44:TE:266:HIS:HB2	2.17	0.44
44:TE:257:THR:HA	45:TF:397:TRP:CZ2	2.52	0.44
45:TF:222:TYR:C	45:TF:226:ASN:HD22	2.20	0.44
44:TG:207:GLU:HB3	44:TG:304:LYS:HZ1	1.82	0.44
44:TG:279:GLU:HB2	44:TG:280:LYS:HZ3	1.81	0.44
45:TH:351:SER:HB3	44:TI:179:THR:CG2	2.42	0.44
44:TI:91:GLN:CB	44:TI:121:ARG:HD2	2.47	0.44
45:TJ:186:THR:HG23	45:TJ:187:LEU:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:378:PHE:O	45:TJ:382:ALA:N	2.42	0.44
44:TK:5:ILE:HD12	44:TK:135:PHE:CE1	2.52	0.44
44:TK:205:ASP:CG	44:TK:304:LYS:H	2.20	0.44
44:TK:254:GLU:HG2	45:TL:98:GLY:CA	2.45	0.44
44:TK:385:ALA:HA	44:TK:388:PHE:CD2	2.52	0.44
45:TL:11:GLN:H	48:TL:501:GDP:PB	2.39	0.44
45:TL:248:SER:HA	45:TL:252:LYS:HD2	1.99	0.44
44:TM:17:GLY:HA2	44:TM:20:CYS:SG	2.57	0.44
44:TM:21:TRP:HA	44:TM:24:PHE:CD2	2.52	0.44
44:TM:244:PHE:HB2	44:TM:356:ASN:HD21	1.82	0.44
44:TM:278:ALA:HA	44:TM:281:ALA:CB	2.46	0.44
44:TM:344:VAL:HG21	44:TM:346:TRP:CE2	2.52	0.44
44:TM:355:ILE:HG22	44:TM:356:ASN:N	2.32	0.44
45:TN:316:LEU:HA	45:TN:352:SER:O	2.17	0.44
45:UB:61:PRO:HD2	45:UB:84:LEU:O	2.17	0.44
45:UB:65:LEU:HD22	45:UB:90:PHE:CE1	2.52	0.44
44:UC:175:PRO:O	44:UC:394:LYS:HE3	2.18	0.44
45:UD:351:SER:HB2	44:UE:179:THR:CG2	2.47	0.44
44:UE:11:GLN:H	46:UE:501:GTP:PB	2.39	0.44
44:UE:155:GLU:HA	44:UE:197:HIS:CE1	2.52	0.44
44:UG:156:ARG:O	44:UG:159:VAL:HG12	2.17	0.44
44:UG:184:PRO:O	44:UG:188:ILE:HG12	2.18	0.44
44:UG:208:ALA:O	44:UG:212:ILE:HG12	2.17	0.44
44:UG:238:LEU:HD12	44:UG:378:ILE:CG1	2.46	0.44
44:UG:261:PRO:HA	45:UH:394:PHE:HE1	1.80	0.44
44:UG:287:SER:HB3	44:UG:290:GLU:HG2	1.99	0.44
45:UH:11:GLN:O	45:UH:15:GLN:N	2.41	0.44
44:UI:172:TYR:CD2	44:UI:203:MET:HE1	2.52	0.44
44:UI:288:VAL:CG2	44:UI:323:VAL:HG23	2.45	0.44
45:UJ:147:MET:O	45:UJ:151:LEU:HD23	2.16	0.44
45:UJ:403:MET:HB3	45:UJ:403:MET:HE2	1.93	0.44
44:UK:185:TYR:O	44:UK:189:LEU:HG	2.17	0.44
44:UK:258:ASN:HB3	45:UL:179:VAL:CG2	2.46	0.44
44:UM:21:TRP:HZ3	44:UM:52:PHE:HB3	1.80	0.44
44:VA:16:VAL:HG13	44:VA:138:PHE:HD2	1.82	0.44
44:VA:151:SER:O	44:VA:154:LEU:HB2	2.18	0.44
44:VA:252:ILE:HD12	44:VA:255:PHE:CE2	2.51	0.44
44:VA:288:VAL:HG13	44:VA:289:ALA:N	2.33	0.44
45:VB:26:ASP:O	45:VB:359:LYS:HD3	2.17	0.44
45:VB:206:ALA:O	45:VB:210:ILE:N	2.27	0.44
44:VC:31:GLN:HB3	44:VC:32:PRO:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:141:VAL:HG11	44:VC:172:TYR:CE1	2.52	0.44
44:VC:180:ALA:HB1	45:VD:256:ASN:HD22	1.79	0.44
45:VD:13:GLY:CA	45:VD:137:HIS:HA	2.47	0.44
45:VD:68:LEU:CG	45:VD:96:GLY:H	2.26	0.44
45:VD:263:LEU:HD23	45:VD:263:LEU:HA	1.82	0.44
44:VE:22:GLU:HG3	44:VE:83:TYR:HE2	1.82	0.44
44:VE:101:ASN:HA	44:VE:144:GLY:HA3	1.99	0.44
44:VE:291:ILE:HG21	44:VE:373:ARG:CD	2.48	0.44
44:VE:296:PHE:CD2	44:VE:335:ILE:HG21	2.52	0.44
44:VG:135:PHE:HE2	44:VG:157:LEU:HD22	1.83	0.44
45:VH:247:ASN:O	45:VH:247:ASN:OD1	2.35	0.44
44:VI:259:LEU:O	44:VI:261:PRO:HD3	2.17	0.44
45:VJ:7:ILE:HG23	45:VJ:66:MET:CE	2.47	0.44
44:VK:22:GLU:HG3	44:VK:83:TYR:OH	2.17	0.44
44:VK:326:LYS:HD3	45:VN:212:PHE:HZ	1.82	0.44
44:VK:345:ASP:HB2	44:VK:438:GLU:HG3	1.99	0.44
44:VK:408:TYR:HB3	44:VK:418:PHE:HE2	1.82	0.44
44:VM:115:VAL:HG22	44:VM:119:LEU:HD23	1.99	0.44
44:VM:389:SER:HA	44:VM:392:ASP:HB3	2.00	0.44
44:WA:70:LEU:CD2	44:WA:114:ILE:HG13	2.47	0.44
44:WA:346:TRP:HB3	45:WD:391:ARG:CZ	2.47	0.44
45:WB:86:ARG:CZ	45:WB:87:PRO:HD2	2.44	0.44
45:WB:376:GLU:HA	45:WB:379:LYS:HB2	1.98	0.44
44:WC:221:ARG:HG3	45:WD:322:SER:HB3	1.98	0.44
45:WD:3:GLU:N	45:WD:3:GLU:OE1	2.50	0.44
44:WE:10:GLY:HA2	44:WE:145:THR:HG23	1.99	0.44
44:WE:305:CYS:HB2	44:WE:387:VAL:HG13	1.99	0.44
45:WF:73:MET:HA	45:WF:76:VAL:HG12	1.99	0.44
45:WF:304:ASP:HB3	45:WF:307:HIS:CG	2.52	0.44
44:WG:313:MET:HE3	44:WG:381:SER:HA	1.99	0.44
44:WG:387:VAL:O	44:WG:390:ARG:HG2	2.17	0.44
45:WJ:18:ALA:O	45:WJ:22:GLU:HG3	2.18	0.44
45:WJ:47:ILE:HD13	45:WJ:59:TYR:CE2	2.49	0.44
45:WJ:253:LEU:HD12	45:WJ:257:LEU:CD1	2.47	0.44
44:WK:91:GLN:HB3	44:WK:121:ARG:NH1	2.32	0.44
44:WK:276:ILE:HG22	44:WK:277:SER:N	2.32	0.44
44:WK:387:VAL:HA	44:WK:390:ARG:HH11	1.83	0.44
44:WK:431:ASP:O	44:WK:435:VAL:HG12	2.17	0.44
44:WM:5:ILE:HG22	44:WM:7:ILE:CD1	2.47	0.44
44:WM:188:ILE:HG23	44:WM:425:LEU:CD1	2.47	0.44
44:WM:213:CYS:O	44:WM:217:LEU:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:292:THR:HG23	44:WM:293:ASN:N	2.31	0.44
44:WM:422:ARG:NH1	44:WM:426:ALA:HB2	2.31	0.44
45:WN:193:VAL:O	45:WN:193:VAL:HG22	2.18	0.44
1:6H:382:PHE:CD2	44:FK:364:PRO:HG2	2.53	0.44
5:1D:95:GLN:HB2	44:EG:364:PRO:HB2	1.98	0.44
18:1F:97:LEU:HD11	44:GI:37:PRO:HD2	1.99	0.44
9:1H:282:GLN:OE1	45:HF:276:ARG:NH1	2.48	0.44
21:1K:155:GLU:OE2	44:FC:58:ALA:HB3	2.17	0.44
10:1N:156:HIS:NE2	45:KJ:81:PHE:HZ	2.15	0.44
26:1R:183:LYS:NZ	45:AF:33:THR:HG22	2.31	0.44
12:1S:118:ASN:ND2	45:AF:339:SER:HB2	2.33	0.44
14:1U:238:SER:CA	45:WF:33:THR:HG21	2.46	0.44
16:1X:18:ILE:HD11	45:MH:81:PHE:CE1	2.44	0.44
2:2A:36:ARG:NE	45:MJ:243:PRO:HB2	2.32	0.44
6:2E:118:ARG:HH21	35:5R:534:HIS:CE1	2.33	0.44
32:2I:142:LEU:HD11	45:GD:297:LYS:HZ1	1.81	0.44
21:2K:238:LYS:HD3	45:FN:56:GLY:CA	2.48	0.44
22:2L:549:LEU:HD21	44:BM:367:ASP:HA	1.98	0.44
15:2V:101:ILE:HD12	44:LE:415:GLU:HG3	1.99	0.44
2:3A:125:LEU:CA	45:AN:276:ARG:HH22	2.29	0.44
2:3A:135:SER:HB2	45:AN:243:PRO:HG2	2.00	0.44
2:3A:143:HIS:CG	44:AM:32:PRO:HG2	2.52	0.44
31:3H:174:PHE:CZ	44:AE:357:TYR:HB2	2.52	0.44
26:3R:143:ASN:ND2	45:BN:219:THR:HG1	2.11	0.44
28:4C:232:PHE:HD2	45:JN:59:TYR:HH	1.63	0.44
34:4F:198:LYS:NZ	44:IM:219:ILE:HG12	2.33	0.44
35:4R:245:LEU:HB3	44:BE:58:ALA:HB3	1.99	0.44
35:4R:246:GLN:HE21	44:BE:59:GLY:H	1.65	0.44
16:4X:12:HIS:CG	45:LL:80:PRO:HD3	2.51	0.44
37:5C:39:ARG:HH12	44:KG:264:ARG:HB3	1.82	0.44
37:5C:138:ARG:NH2	45:NL:357:PRO:HG2	2.32	0.44
38:5F:154:TYR:CE2	45:NH:35:THR:HG23	2.53	0.44
38:5G:52:GLY:O	38:5G:56:VAL:N	2.51	0.44
38:5G:85:GLN:HG3	38:5G:96:TYR:OH	2.17	0.44
38:5H:104:MET:SD	38:5H:105:LYS:O	2.75	0.44
35:5R:258:PHE:CZ	35:5R:356:THR:HG21	2.53	0.44
35:5R:466:TRP:HZ3	45:EJ:77:ARG:CD	2.28	0.44
40:6F:92:LYS:HD2	40:6F:93:LYS:N	2.32	0.44
41:6G:165:THR:O	41:6G:169:GLN:N	2.41	0.44
41:6G:188:LEU:O	41:6G:188:LEU:HD12	2.17	0.44
35:6R:262:TRP:HB2	35:6R:347:CYS:SG	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:406:PRO:HB2	45:EN:218:THR:CG2	2.47	0.44
35:7R:234:VAL:HA	35:7R:238:GLY:O	2.18	0.44
35:7R:526:ALA:O	35:7R:587:THR:HG21	2.17	0.44
44:AA:207:GLU:OE1	44:AA:304:LYS:HG2	2.18	0.44
45:AD:18:ALA:CB	45:AD:76:VAL:HG23	2.40	0.44
45:AD:208:TYR:CE1	45:AD:225:LEU:HD11	2.52	0.44
44:AE:3:GLU:OE2	44:AE:129:CYS:HB3	2.17	0.44
45:AF:47:ILE:HG12	45:AF:51:TYR:HB2	1.99	0.44
45:AF:215:LEU:HD13	45:AF:217:LEU:CD2	2.47	0.44
45:AF:330:MET:HB3	45:AF:349:ILE:HG21	2.00	0.44
44:AG:181:VAL:O	44:AG:181:VAL:HG22	2.17	0.44
44:AG:270:SER:HB2	44:AG:377:MET:O	2.18	0.44
45:AJ:284:LEU:HD12	45:AJ:289:LEU:HD11	1.98	0.44
44:AK:70:LEU:HD13	44:AK:110:ILE:CD1	2.45	0.44
45:AL:167:PHE:HE1	45:AL:233:MET:HB2	1.82	0.44
45:AL:262:ARG:HE	45:AL:421:GLU:HG3	1.83	0.44
44:AM:98:ASP:OD1	44:AM:99:ALA:N	2.50	0.44
44:AM:313:MET:HE1	44:AM:435:VAL:HG11	1.99	0.44
45:AN:3:GLU:CB	45:AN:49:VAL:HA	2.47	0.44
45:AN:40:SER:OG	45:AN:43:GLN:HG3	2.17	0.44
44:BA:317:MET:O	44:BA:317:MET:HG3	2.18	0.44
44:BA:344:VAL:CG1	44:BA:345:ASP:N	2.80	0.44
44:BC:27:GLU:CD	44:BC:243:ARG:HH12	2.20	0.44
44:BC:88:HIS:O	44:BC:91:GLN:HG2	2.17	0.44
44:BC:287:SER:O	44:BC:291:ILE:HG23	2.18	0.44
45:BD:178:THR:CG2	45:BD:179:VAL:N	2.80	0.44
45:BD:193:VAL:HA	45:BD:264:HIS:CE1	2.52	0.44
45:BD:392:LYS:CG	45:BD:395:LEU:HD23	2.47	0.44
45:BF:143:THR:N	48:BF:502:GDP:O1B	2.48	0.44
44:BG:296:PHE:CD2	44:BG:335:ILE:HG21	2.51	0.44
44:BI:99:ALA:HB3	44:BI:145:THR:HB	1.96	0.44
44:BI:265:ILE:HG23	44:BI:432:TYR:CE1	2.53	0.44
45:BJ:8:GLN:NE2	45:BJ:65:LEU:HG	2.32	0.44
45:BJ:47:ILE:HG12	45:BJ:51:TYR:HB2	1.99	0.44
44:BK:145:THR:HG23	44:BK:146:GLY:N	2.33	0.44
44:BK:404:PHE:CE1	45:BL:259:PRO:HA	2.51	0.44
45:BL:139:LEU:HD12	45:BL:139:LEU:N	2.33	0.44
45:BL:197:ASP:O	45:BL:198:GLU:HG3	2.17	0.44
45:BL:202:ILE:HD13	45:BL:300:MET:HE2	1.99	0.44
45:BN:65:LEU:HD11	45:BN:85:PHE:CE2	2.53	0.44
44:CA:114:ILE:O	44:CA:114:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:427:ALA:HA	44:CA:430:LYS:CG	2.43	0.44
45:CB:222:TYR:O	45:CB:226:ASN:ND2	2.37	0.44
45:CB:262:ARG:NH1	45:CB:421:GLU:OE1	2.50	0.44
44:CC:11:GLN:HG2	44:CC:12:GLY:N	2.32	0.44
44:CC:156:ARG:CA	44:CC:159:VAL:HG12	2.47	0.44
45:CD:350:LYS:CG	45:CD:351:SER:N	2.80	0.44
44:CE:228:ASN:O	44:CE:231:ILE:HG22	2.15	0.44
44:CE:274:PRO:HG3	44:CE:286:LEU:CD1	2.44	0.44
44:CE:349:THR:O	45:CF:179:VAL:HA	2.18	0.44
44:CG:3:GLU:HG2	44:CG:64:ARG:NH2	2.33	0.44
44:CG:13:GLY:HA2	44:CG:16:VAL:HG12	1.99	0.44
45:CH:24:ILE:CD1	45:CH:233:MET:HE1	2.47	0.44
45:CH:36:TYR:CZ	45:CH:38:GLY:HA3	2.52	0.44
45:CH:116:VAL:HA	45:CH:119:VAL:HG12	2.00	0.44
45:CJ:164:MET:HB3	45:CJ:197:ASP:H	1.81	0.44
44:CK:112:LYS:HD2	44:CK:112:LYS:C	2.38	0.44
44:CK:387:VAL:CA	44:CK:390:ARG:HG2	2.40	0.44
44:CK:390:ARG:HG3	44:CK:391:LEU:HD12	1.99	0.44
45:CL:207:LEU:O	45:CL:210:ILE:N	2.50	0.44
44:CM:114:ILE:O	44:CM:117:LEU:N	2.50	0.44
45:CN:260:PHE:HB3	45:CN:261:PRO:HD2	2.00	0.44
45:CN:276:ARG:HD3	45:CN:276:ARG:HA	1.78	0.44
44:DA:88:HIS:CE1	44:DA:90:GLU:HG2	2.52	0.44
44:DA:91:GLN:HG3	44:DA:92:LEU:HD12	1.98	0.44
44:DA:223:THR:O	44:DA:226:ASN:HB2	2.18	0.44
45:DB:24:ILE:HD13	45:DB:27:GLU:OE2	2.17	0.44
45:DB:247:ASN:O	45:DB:252:LYS:NZ	2.51	0.44
45:DB:304:ASP:HB3	45:DB:307:HIS:CD2	2.52	0.44
45:DB:391:ARG:HA	45:DB:391:ARG:HD2	1.76	0.44
45:DD:47:ILE:HG12	45:DD:51:TYR:HB2	1.99	0.44
44:DI:243:ARG:O	44:DI:244:PHE:HD1	2.00	0.44
45:DJ:152:ILE:O	45:DJ:155:VAL:HG22	2.17	0.44
45:DJ:309:ARG:H	45:DJ:372:THR:HG1	1.61	0.44
45:DJ:317:PHE:CE1	45:DJ:365:VAL:HG13	2.52	0.44
45:DJ:410:GLU:O	45:DJ:413:SER:N	2.49	0.44
45:DL:233:MET:HA	45:DL:236:VAL:HG23	1.98	0.44
45:DL:256:ASN:CB	44:DM:181:VAL:HG22	2.46	0.44
44:DM:102:ASN:OD1	44:DM:105:ARG:HG3	2.17	0.44
44:DM:329:ASN:HD22	45:DN:175:VAL:HG12	1.82	0.44
45:DN:287:PRO:HA	45:DN:290:THR:HG22	1.98	0.44
44:EA:230:LEU:HA	44:EA:233:GLN:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:35:THR:HG23	45:EB:37:HIS:ND1	2.32	0.44
45:EB:102:ALA:HB1	45:EB:403:MET:HE1	1.99	0.44
45:EB:139:LEU:HB3	45:EB:185:ALA:HB2	1.98	0.44
45:EB:224:ASP:O	45:EB:228:LEU:HG	2.16	0.44
45:EB:295:ASP:OD1	45:EB:296:ALA:N	2.50	0.44
44:EC:344:VAL:HG11	44:EC:346:TRP:NE1	2.32	0.44
45:ED:51:TYR:HB3	45:ED:60:VAL:O	2.17	0.44
44:EE:186:ASN:O	44:EE:190:SER:OG	2.34	0.44
45:EF:49:VAL:CG2	45:EF:240:LEU:HD22	2.47	0.44
45:EF:346:PRO:CB	44:EG:394:LYS:HZ3	2.30	0.44
44:EG:316:SER:HB2	44:EG:352:LYS:HB3	1.99	0.44
44:EG:317:MET:O	44:EG:318:MET:HE2	2.16	0.44
45:EH:173:PRO:CD	45:EH:380:ARG:HD3	2.48	0.44
45:EH:203:ASP:CB	45:EH:302:ALA:H	2.31	0.44
44:EI:14:ILE:HG23	44:EI:15:GLN:N	2.32	0.44
45:EJ:86:ARG:NH2	45:EJ:87:PRO:HG2	2.30	0.44
44:EK:145:THR:HG22	46:EK:501:GTP:O3B	2.18	0.44
44:EK:270:SER:HB2	44:EK:377:MET:O	2.17	0.44
45:EL:376:GLU:HA	45:EL:379:LYS:NZ	2.32	0.44
44:EM:103:PHE:HD1	44:EM:147:SER:HB2	1.82	0.44
44:EM:109:THR:HG23	44:EM:110:ILE:N	2.32	0.44
44:FA:306:ASP:O	44:FA:309:HIS:HB2	2.17	0.44
45:FB:52:ASN:OD1	45:FB:62:ARG:NH2	2.50	0.44
44:FC:74:VAL:HG23	44:FC:75:ILE:N	2.33	0.44
45:FD:67:ASP:OD2	45:FD:72:THR:HG21	2.17	0.44
44:FE:212:ILE:CD1	44:FE:215:ARG:HH22	2.29	0.44
44:FG:89:PRO:CG	44:GG:280:LYS:HD2	2.29	0.44
45:FH:7:ILE:HG12	45:FH:64:ILE:CG1	2.48	0.44
45:FH:34:GLY:HA3	45:FH:58:ARG:NH1	2.32	0.44
45:FH:136:THR:HG22	45:FH:167:PHE:HB2	2.00	0.44
45:FH:342:VAL:HG13	45:FH:345:ILE:CG2	2.43	0.44
44:FI:265:ILE:CD1	44:FI:435:VAL:HG11	2.48	0.44
44:FI:363:VAL:O	44:FI:363:VAL:HG13	2.16	0.44
44:FK:322:ASP:OD1	44:FK:372:MET:HE2	2.17	0.44
44:FK:393:HIS:O	44:FK:396:ASP:OD1	2.36	0.44
45:FL:268:ILE:HG21	45:FL:368:VAL:HG22	2.00	0.44
45:FL:286:VAL:N	45:FL:287:PRO:HD2	2.32	0.44
45:FL:318:ARG:HB2	45:FL:364:ALA:O	2.16	0.44
44:FM:115:VAL:HG13	44:FM:116:ASP:N	2.33	0.44
44:FM:208:ALA:HB2	44:FM:304:LYS:N	2.33	0.44
45:FN:48:ASN:HA	45:FN:51:TYR:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:300:MET:O	45:FN:300:MET:HG2	2.17	0.44
44:GA:265:ILE:HD11	44:GA:435:VAL:HG21	1.97	0.44
45:GB:101:TRP:HB2	45:GB:398:TYR:HE1	1.82	0.44
45:GB:310:TYR:C	45:GB:311:LEU:HD23	2.38	0.44
44:GE:26:LEU:HD22	44:GE:364:PRO:HD3	1.99	0.44
44:GE:288:VAL:HA	44:GE:291:ILE:HG12	1.98	0.44
45:GF:178:THR:HG22	45:GF:181:GLU:CG	2.47	0.44
45:GF:269:GLY:CA	45:GF:300:MET:HE1	2.46	0.44
45:GH:317:PHE:CE2	45:GH:326:VAL:HG13	2.52	0.44
45:GH:377:MET:HA	45:GH:380:ARG:HD2	1.98	0.44
44:GI:169:PHE:HB3	44:GI:204:LEU:CD1	2.48	0.44
44:GI:186:ASN:OD1	44:GI:187:SER:N	2.50	0.44
44:GI:343:PHE:HZ	44:GI:351:PHE:CZ	2.35	0.44
44:GI:362:VAL:HG11	44:GI:370:LYS:CB	2.35	0.44
45:GJ:109:GLY:HA2	45:GJ:147:MET:HE2	1.99	0.44
45:GJ:321:MET:HE2	45:GJ:326:VAL:HG23	2.00	0.44
45:GJ:403:MET:HG3	45:GJ:407:GLU:CD	2.38	0.44
44:GK:101:ASN:N	46:GL:501:GTP:O2G	2.49	0.44
44:GK:157:LEU:HB3	44:GK:166:LYS:HE2	1.99	0.44
44:GK:224:TYR:HD2	45:GL:323:THR:HG21	1.82	0.44
44:GM:188:ILE:HG23	44:GM:425:LEU:HD11	1.98	0.44
44:GM:221:ARG:HH12	45:GN:324:LYS:N	2.16	0.44
44:GM:269:LEU:HD23	44:GM:269:LEU:H	1.83	0.44
45:GN:183:TYR:CE1	45:GN:386:THR:CB	3.00	0.44
44:HA:269:LEU:HD23	44:HA:269:LEU:H	1.81	0.44
44:HA:372:MET:O	44:HA:373:ARG:HG3	2.18	0.44
44:HC:32:PRO:HB3	44:HC:83:TYR:CE1	2.53	0.44
44:HC:114:ILE:HG22	44:HC:114:ILE:O	2.17	0.44
44:HC:320:ARG:CD	44:HC:360:PRO:HD3	2.47	0.44
45:HD:46:ARG:O	45:HD:49:VAL:HG23	2.17	0.44
45:HD:123:GLU:HA	45:HD:123:GLU:OE1	2.17	0.44
44:HE:103:PHE:CD2	44:HE:189:LEU:HD12	2.52	0.44
44:HE:219:ILE:O	44:HE:222:PRO:HG3	2.18	0.44
45:HF:215:LEU:O	45:HF:275:SER:HA	2.17	0.44
44:HG:70:LEU:HD12	44:HG:145:THR:OG1	2.17	0.44
44:HG:224:TYR:CG	45:HH:323:THR:HG21	2.53	0.44
44:HG:296:PHE:CE2	44:HG:335:ILE:HG21	2.50	0.44
45:HH:318:ARG:HD3	45:HH:358:PRO:CD	2.46	0.44
45:HH:318:ARG:HH11	45:HH:358:PRO:HG3	1.80	0.44
45:HH:345:ILE:O	45:HH:348:ASN:HB3	2.17	0.44
45:HH:398:TYR:HB3	45:HH:403:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:88:HIS:ND1	44:HI:90:GLU:HG2	2.32	0.44
44:HI:329:ASN:ND2	45:HL:175:VAL:HB	2.32	0.44
45:HJ:114:ASP:OD1	45:HJ:115:SER:N	2.49	0.44
45:HJ:151:LEU:O	45:HJ:155:VAL:HG13	2.18	0.44
44:HK:101:ASN:HD22	45:HL:252:LYS:HZ1	1.65	0.44
44:HK:371:VAL:HG13	44:HK:373:ARG:O	2.18	0.44
44:HK:437:ILE:O	44:HK:437:ILE:HG13	2.18	0.44
45:HL:252:LYS:HD2	45:HL:252:LYS:O	2.17	0.44
44:HM:3:GLU:HG3	44:HM:129:CYS:SG	2.57	0.44
44:HM:32:PRO:HB3	44:HM:83:TYR:HE1	1.83	0.44
44:HM:241:SER:N	44:HM:242:LEU:CB	2.72	0.44
45:HN:309:ARG:O	45:HN:371:SER:OG	2.32	0.44
44:IA:279:GLU:C	44:IA:280:LYS:HD2	2.36	0.44
45:IB:86:ARG:HE	45:IB:87:PRO:CD	2.25	0.44
45:IB:135:ILE:HB	45:IB:166:THR:HA	1.98	0.44
45:IB:255:VAL:HG12	45:IB:256:ASN:ND2	2.33	0.44
45:IB:264:HIS:HA	45:IB:266:PHE:CE1	2.52	0.44
45:IB:391:ARG:HA	45:IB:391:ARG:HD2	1.87	0.44
45:ID:10:GLY:O	45:ID:14:ASN:N	2.38	0.44
45:ID:66:MET:HE1	45:ID:147:MET:HB3	1.96	0.44
45:IF:107:THR:HG23	45:IF:108:GLU:H	1.81	0.44
44:IG:88:HIS:O	44:IG:91:GLN:HG2	2.17	0.44
45:IH:65:LEU:HD22	45:IH:90:PHE:HE2	1.82	0.44
44:II:183:GLU:CG	44:II:184:PRO:HD3	2.47	0.44
44:IK:149:LEU:O	44:IK:153:LEU:HG	2.17	0.44
44:IK:184:PRO:HG2	44:IK:398:MET:HE1	1.99	0.44
45:IL:169:VAL:HG13	45:IL:202:ILE:O	2.17	0.44
45:IL:320:ARG:HB3	45:IL:355:ASP:HA	1.98	0.44
44:IM:224:TYR:HB3	46:IM:501:GTP:O6	2.18	0.44
45:IN:283:ALA:O	45:IN:288:GLU:HG3	2.18	0.44
44:JA:137:VAL:O	44:JA:168:GLY:HA2	2.17	0.44
44:JA:395:PHE:CE1	44:JA:422:ARG:HD3	2.52	0.44
44:JC:177:VAL:O	44:JC:177:VAL:HG13	2.18	0.44
45:JD:86:ARG:HE	45:KD:281:TYR:CB	2.30	0.44
45:JD:179:VAL:O	45:JD:179:VAL:HG22	2.18	0.44
45:JD:304:ASP:CG	45:JD:306:ARG:HG2	2.37	0.44
44:JE:268:MET:HB2	44:JE:379:SER:C	2.37	0.44
45:JF:209:ASP:CG	45:JF:210:ILE:N	2.69	0.44
45:JF:257:LEU:HA	45:JF:312:THR:HG21	1.99	0.44
45:JH:61:PRO:HD2	45:JH:84:LEU:O	2.18	0.44
45:JH:283:ALA:HB3	45:JH:288:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JI:395:PHE:CD1	44:JI:422:ARG:HD3	2.53	0.44
45:JJ:248:SER:HB3	45:JJ:252:LYS:HD2	2.00	0.44
44:JK:32:PRO:HB3	44:JK:83:TYR:CD1	2.52	0.44
44:JK:113:GLU:C	44:JK:114:ILE:HD13	2.37	0.44
45:JL:7:ILE:HG23	45:JL:66:MET:HE3	1.99	0.44
44:JM:75:ILE:HA	44:JM:78:VAL:HG12	1.99	0.44
44:JM:188:ILE:HG13	44:JM:395:PHE:CD1	2.53	0.44
44:JM:270:SER:O	44:JM:302:MET:HB3	2.17	0.44
44:JM:313:MET:N	44:JM:380:ASN:O	2.51	0.44
45:JN:86:ARG:CG	45:KN:281:TYR:HB3	2.47	0.44
45:JN:396:HIS:ND1	45:JN:397:TRP:CD1	2.85	0.44
45:KB:5:VAL:HG12	45:KB:62:ARG:HD3	2.00	0.44
44:KE:168:GLY:O	44:KE:201:ALA:HA	2.17	0.44
44:KG:27:GLU:OE2	44:KG:243:ARG:NH1	2.49	0.44
45:KH:30:ILE:HG22	45:KH:34:GLY:HA2	1.98	0.44
45:KH:101:TRP:CE2	45:KH:187:LEU:HB3	2.52	0.44
44:KI:96:LYS:O	45:KJ:1:MET:HE3	2.18	0.44
44:KI:97:GLU:HG3	44:KI:105:ARG:HH12	1.82	0.44
44:KI:175:PRO:HB3	44:KI:390:ARG:NE	2.32	0.44
44:KI:250:VAL:HG22	44:KI:318:MET:CE	2.47	0.44
45:KJ:20:PHE:HE2	45:KJ:233:MET:HE3	1.79	0.44
45:KJ:166:THR:HG23	45:KJ:199:CYS:HA	1.99	0.44
45:KJ:269:GLY:CA	45:KJ:293:MET:HE3	2.48	0.44
44:KK:202:VAL:HA	44:KK:268:MET:HB2	1.99	0.44
44:KK:413:MET:HE1	44:KK:417:GLU:HG3	1.99	0.44
44:KM:174:SER:HG	44:KM:177:VAL:C	2.12	0.44
44:KM:319:TYR:CE2	44:KM:328:VAL:HG22	2.52	0.44
45:LB:152:ILE:HA	45:LB:155:VAL:HG12	1.98	0.44
45:LB:260:PHE:HB3	45:LB:261:PRO:HD2	1.99	0.44
45:LB:294:PHE:HE2	45:LB:333:VAL:CG1	2.29	0.44
45:LB:317:PHE:CD1	45:LB:317:PHE:N	2.85	0.44
45:LB:379:LYS:CG	45:LB:419:VAL:HG11	2.47	0.44
44:LC:101:ASN:HA	44:LC:144:GLY:N	2.27	0.44
44:LC:425:LEU:O	44:LC:429:GLU:HG3	2.18	0.44
44:LE:60:LYS:HD2	44:ME:283:HIS:CD2	2.52	0.44
45:LF:174:LYS:HE2	45:LF:174:LYS:H	1.81	0.44
44:LG:160:ASP:C	44:LG:161:TYR:HD1	2.21	0.44
44:LG:270:SER:HB2	44:LG:378:ILE:HD13	2.00	0.44
45:LH:3:GLU:N	45:LH:3:GLU:OE1	2.50	0.44
45:LH:233:MET:O	45:LH:236:VAL:HG12	2.16	0.44
44:LI:97:GLU:HG2	44:LI:105:ARG:HH22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LI:284:GLU:OE1	44:LI:284:GLU:N	2.50	0.44
45:LJ:230:SER:HA	45:LJ:233:MET:HE2	1.99	0.44
45:LJ:274:THR:CG2	45:LJ:279:GLN:HB2	2.45	0.44
44:LK:1:MET:O	44:LK:131:GLY:HA3	2.18	0.44
44:LM:71:GLU:CD	44:LM:73:THR:H	2.19	0.44
44:LM:185:TYR:OH	44:LM:398:MET:HB3	2.18	0.44
45:MB:357:PRO:HB2	45:MB:358:PRO:CD	2.47	0.44
45:MB:404:ASP:OD2	45:MB:406:MET:HE2	2.18	0.44
44:MC:249:ASN:OD1	44:MC:250:VAL:N	2.50	0.44
44:MC:268:MET:CG	44:MC:378:ILE:HG22	2.47	0.44
45:MD:198:GLU:OE2	45:MD:254:ALA:HB2	2.16	0.44
45:MD:203:ASP:O	45:MD:207:LEU:HD13	2.16	0.44
45:MF:25:SER:HB3	45:MF:30:ILE:HB	1.98	0.44
44:MI:221:ARG:HG3	44:MI:221:ARG:O	2.18	0.44
45:MJ:15:GLN:O	45:MJ:18:ALA:HB3	2.16	0.44
45:MJ:23:VAL:HG13	45:MJ:24:ILE:N	2.33	0.44
45:MJ:314:SER:HA	45:MJ:350:LYS:HB3	1.98	0.44
44:MK:102:ASN:OD1	44:MK:105:ARG:HG3	2.17	0.44
44:MK:397:LEU:HD11	45:ML:344:TRP:HB2	1.99	0.44
45:ML:284:LEU:HD12	45:ML:362:LYS:HE2	1.99	0.44
45:ML:330:MET:HG3	45:ML:349:ILE:HG21	1.99	0.44
45:ML:396:HIS:CA	45:ML:399:THR:HG22	2.47	0.44
44:MM:106:GLY:O	44:MM:149:LEU:HD22	2.18	0.44
45:MN:178:THR:HG22	45:MN:180:VAL:HG12	1.98	0.44
45:MN:372:THR:HA	45:MN:422:TYR:CE2	2.52	0.44
44:NA:102:ASN:OD1	44:NA:104:ALA:HB3	2.18	0.44
44:NA:188:ILE:HG13	44:NA:395:PHE:CG	2.53	0.44
45:NB:74:ASP:OD1	45:NB:75:SER:N	2.51	0.44
45:NB:136:THR:HG22	45:NB:167:PHE:CG	2.52	0.44
44:NC:4:VAL:HB	44:NC:52:PHE:HE1	1.79	0.44
45:ND:22:GLU:HG2	45:ND:81:PHE:CD1	2.52	0.44
45:ND:173:PRO:HD3	45:ND:380:ARG:CZ	2.47	0.44
45:ND:213:ARG:HH11	45:ND:214:THR:HB	1.80	0.44
44:NE:288:VAL:HG21	44:NE:327:ASP:HB3	1.98	0.44
44:NE:323:VAL:HG12	44:NE:373:ARG:CD	2.47	0.44
45:NF:68:LEU:HG	45:NF:96:GLY:HA2	1.98	0.44
44:NG:121:ARG:HE	44:NG:125:LEU:CD2	2.30	0.44
44:NG:136:LEU:HD21	44:NG:167:LEU:HD22	1.98	0.44
45:NJ:192:LEU:HD21	45:NJ:199:CYS:HB2	1.99	0.44
45:NJ:218:THR:HG23	45:NJ:219:THR:N	2.32	0.44
44:NK:13:GLY:O	44:NK:16:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:14:ASN:O	45:NL:18:ALA:N	2.50	0.44
45:NL:217:LEU:HD11	45:NL:220:PRO:CB	2.46	0.44
45:NL:242:PHE:CB	45:NL:356:ILE:HG13	2.47	0.44
44:NM:223:THR:HG23	44:NM:225:THR:OG1	2.17	0.44
44:OA:292:THR:O	44:OA:295:ALA:N	2.44	0.44
45:OB:49:VAL:HG21	45:OB:240:LEU:HD21	1.98	0.44
45:OB:148:GLY:O	45:OB:152:ILE:HG12	2.17	0.44
45:OB:318:ARG:HB2	45:OB:364:ALA:CB	2.43	0.44
44:OC:276:ILE:HD12	44:OC:280:LYS:HE2	1.99	0.44
45:OD:11:GLN:HB3	48:OD:502:GDP:PB	2.58	0.44
44:OE:66:VAL:O	44:OE:66:VAL:HG13	2.17	0.44
44:OE:209:ILE:HA	44:OE:212:ILE:HG13	1.98	0.44
44:OE:346:TRP:CE3	44:OE:347:CYS:HB2	2.53	0.44
45:OF:337:ASN:HB3	45:OF:340:TYR:HB2	1.99	0.44
44:OG:71:GLU:CD	45:OH:247:ASN:HD22	2.19	0.44
45:OH:16:ILE:HG23	45:OH:229:VAL:HG11	1.99	0.44
45:OH:51:TYR:HE2	45:OH:61:PRO:HG3	1.82	0.44
45:OH:257:LEU:HD13	45:OH:266:PHE:CE1	2.51	0.44
44:OI:107:HIS:CE1	44:OI:151:SER:HB2	2.52	0.44
45:OL:146:GLY:O	45:OL:150:LEU:N	2.50	0.44
45:OL:392:LYS:CG	45:OL:395:LEU:HD23	2.47	0.44
44:OM:91:GLN:C	44:OM:93:ILE:HD12	2.38	0.44
44:OM:182:VAL:HG11	45:ON:255:VAL:CG1	2.47	0.44
44:OM:319:TYR:CD1	44:OM:353:VAL:HG23	2.53	0.44
44:OM:425:LEU:HD12	44:OM:428:LEU:CD2	2.48	0.44
45:ON:64:ILE:HG23	45:ON:89:ASN:O	2.17	0.44
44:PA:79:ARG:O	44:PA:84:ARG:HB3	2.17	0.44
45:PB:180:VAL:HG22	45:PB:183:TYR:HB2	1.99	0.44
44:PC:22:GLU:OE1	44:PC:22:GLU:CA	2.65	0.44
44:PE:184:PRO:CG	44:PE:398:MET:HE2	2.48	0.44
44:PE:215:ARG:HH22	44:PE:300:ASN:HA	1.82	0.44
44:PE:352:LYS:HA	45:PH:177:ASP:O	2.17	0.44
44:PG:90:GLU:HG3	44:PG:121:ARG:NH2	2.32	0.44
44:PG:182:VAL:C	44:PG:184:PRO:HD2	2.37	0.44
44:PG:362:VAL:HG21	44:PG:368:LEU:O	2.18	0.44
45:PH:140:GLY:O	45:PH:178:THR:HG21	2.17	0.44
44:PK:6:SER:HA	44:PK:136:LEU:H	1.83	0.44
44:PK:336:LYS:HA	44:PK:336:LYS:HE2	1.99	0.44
45:PL:1:MET:CE	45:PL:129:CYS:HB3	2.47	0.44
45:PL:238:CYS:HB2	45:PL:318:ARG:NH2	2.33	0.44
45:PL:391:ARG:HG3	45:PL:391:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:287:PRO:O	45:PN:290:THR:HG22	2.17	0.44
45:PN:309:ARG:HG2	45:PN:339:SER:O	2.17	0.44
44:QA:151:SER:HB2	44:QA:193:SER:OG	2.18	0.44
44:QA:248:LEU:CG	44:QA:354:GLY:HA2	2.47	0.44
44:QA:250:VAL:CG1	44:QA:254:GLU:HB2	2.47	0.44
45:QB:133:PHE:CE2	45:QB:155:VAL:HG11	2.51	0.44
45:QB:143:THR:CG2	45:QB:144:GLY:N	2.80	0.44
44:QC:198:THR:HG22	44:QC:200:VAL:O	2.17	0.44
45:QD:163:ILE:CG2	45:QD:251:ARG:HD3	2.47	0.44
45:QD:309:ARG:HG3	45:QD:426:GLN:HE22	1.82	0.44
44:QE:102:ASN:ND2	44:QE:105:ARG:HG3	2.32	0.44
45:QF:298:ASN:OD1	45:QF:298:ASN:O	2.35	0.44
45:QH:103:LYS:O	45:QH:108:GLU:HB2	2.17	0.44
45:QH:156:ARG:HD3	45:QH:195:ASN:HB3	1.99	0.44
45:QH:396:HIS:HA	45:QH:399:THR:OG1	2.17	0.44
45:QJ:97:ALA:HB3	45:QJ:143:THR:HG22	1.99	0.44
45:QJ:245:GLN:C	45:QJ:246:LEU:HD12	2.38	0.44
45:QJ:269:GLY:O	45:QJ:367:PHE:HB3	2.17	0.44
44:QK:4:VAL:HG12	44:QK:51:THR:O	2.17	0.44
44:QK:173:PRO:HG2	44:QK:391:LEU:HD11	1.99	0.44
45:QL:151:LEU:O	45:QL:155:VAL:HG23	2.16	0.44
45:QL:178:THR:HB	45:QL:181:GLU:CD	2.38	0.44
45:QL:313:ALA:CB	45:QL:349:ILE:HG23	2.47	0.44
44:QM:141:VAL:HG13	44:QM:173:PRO:HD3	2.00	0.44
44:QM:271:SER:HA	44:QM:302:MET:HG3	1.99	0.44
45:QN:203:ASP:O	45:QN:207:LEU:HG	2.17	0.44
45:QN:296:ALA:HB3	45:QN:306:ARG:HH11	1.81	0.44
44:RA:437:ILE:O	44:RA:437:ILE:HG13	2.16	0.44
45:RB:390:ARG:HG3	45:RB:391:ARG:N	2.33	0.44
45:RD:118:ASP:C	45:RD:122:LYS:HZ2	2.20	0.44
44:RE:155:GLU:HG2	44:RE:197:HIS:NE2	2.32	0.44
45:RF:60:VAL:HG21	45:RF:86:ARG:HB2	1.98	0.44
45:RF:149:THR:O	45:RF:152:ILE:HB	2.17	0.44
45:RF:172:SER:HB2	45:RF:205:GLU:CB	2.43	0.44
45:RH:162:ARG:NE	45:RH:162:ARG:HA	2.32	0.44
45:RJ:11:GLN:HA	45:RJ:14:ASN:ND2	2.21	0.44
45:RJ:24:ILE:HA	45:RJ:27:GLU:HB2	2.00	0.44
45:RJ:150:LEU:CD2	45:RJ:154:LYS:HE2	2.47	0.44
44:RK:71:GLU:OE1	44:RK:73:THR:HB	2.17	0.44
44:RK:254:GLU:OE2	45:RL:98:GLY:HA2	2.18	0.44
45:RL:1:MET:C	45:RL:2:ARG:HG2	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:135:ILE:N	45:RL:165:GLU:O	2.42	0.44
45:RL:322:SER:HB3	44:RM:222:PRO:C	2.37	0.44
44:RM:118:CYS:HA	44:RM:121:ARG:CB	2.42	0.44
45:RN:408:PHE:O	45:RN:412:GLU:HG3	2.17	0.44
44:SA:247:ALA:HB3	44:SA:355:ILE:HG21	1.99	0.44
44:SA:344:VAL:HG11	44:SA:346:TRP:CZ2	2.52	0.44
44:SC:4:VAL:HG13	44:SC:4:VAL:O	2.17	0.44
44:SC:19:ALA:HA	44:SC:22:GLU:OE1	2.17	0.44
44:SC:70:LEU:HD12	44:SC:145:THR:OG1	2.18	0.44
44:SE:151:SER:HB2	44:SE:193:SER:OG	2.17	0.44
44:SE:206:ASN:OD1	44:SE:207:GLU:N	2.50	0.44
44:SE:257:THR:HA	45:SF:397:TRP:NE1	2.32	0.44
45:SF:27:GLU:CD	45:SF:241:ARG:HH12	2.20	0.44
44:SI:34:GLY:O	44:SI:60:LYS:HA	2.17	0.44
44:SI:118:CYS:O	44:SI:122:ILE:HG12	2.18	0.44
45:SJ:43:GLN:O	45:SJ:47:ILE:HD11	2.16	0.44
45:SJ:210:ILE:HG22	45:SJ:215:LEU:HG	1.98	0.44
44:SK:275:ILE:O	44:SK:275:ILE:CG2	2.64	0.44
45:SL:163:ILE:HG21	45:SL:251:ARG:HG3	1.98	0.44
45:SN:124:ALA:HB3	45:SN:159:TYR:OH	2.18	0.44
45:SN:130:LEU:CB	45:SN:162:ARG:HD2	2.47	0.44
44:TA:172:TYR:HE2	44:TA:203:MET:CE	2.31	0.44
44:TC:325:PRO:HB3	45:TD:222:TYR:CE1	2.52	0.44
45:TD:166:THR:HG1	45:TD:199:CYS:HA	1.80	0.44
45:TD:283:ALA:O	45:TD:288:GLU:HG3	2.17	0.44
44:TE:63:PRO:HG2	44:TE:86:LEU:HD11	1.99	0.44
45:TF:330:MET:HE1	45:TF:349:ILE:HD12	1.95	0.44
44:TG:52:PHE:O	44:TG:64:ARG:HD2	2.18	0.44
44:TG:208:ALA:HB3	44:TG:302:MET:O	2.17	0.44
44:TG:348:PRO:HD3	45:TH:388:MET:CE	2.48	0.44
45:TH:80:PRO:O	45:TH:81:PHE:HB2	2.18	0.44
45:TH:286:VAL:HB	45:TH:287:PRO:HD3	1.98	0.44
45:TH:295:ASP:OD1	45:TH:296:ALA:N	2.50	0.44
45:TH:317:PHE:CD1	45:TH:365:VAL:HG13	2.52	0.44
44:TI:20:CYS:O	44:TI:24:PHE:HD2	2.00	0.44
44:TI:56:THR:O	44:TI:56:THR:HG23	2.17	0.44
44:TI:132:LEU:HB2	44:TI:164:LYS:NZ	2.32	0.44
45:TJ:72:THR:HG23	45:TJ:73:MET:N	2.31	0.44
45:TL:267:MET:O	45:TL:368:VAL:HA	2.18	0.44
45:TL:322:SER:HB2	44:TM:222:PRO:C	2.38	0.44
44:TM:296:PHE:CD1	44:TM:377:MET:HE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:190:HIS:O	45:TN:193:VAL:HG12	2.17	0.44
44:UA:291:ILE:CD1	44:UA:375:VAL:HG12	2.40	0.44
45:UB:245:GLN:HA	44:UC:15:GLN:HE22	1.82	0.44
45:UB:330:MET:HE2	45:UB:349:ILE:C	2.38	0.44
44:UC:21:TRP:CD1	44:UC:87:PHE:HZ	2.35	0.44
44:UC:166:LYS:O	44:UC:199:ASP:HB2	2.18	0.44
44:UC:247:ALA:HB3	44:UC:355:ILE:CB	2.41	0.44
44:UC:319:TYR:CD1	44:UC:375:VAL:HG23	2.52	0.44
45:UD:46:ARG:HG3	45:UD:46:ARG:NH1	2.31	0.44
44:UE:53:PHE:O	44:UE:64:ARG:NE	2.50	0.44
44:UE:258:ASN:CG	45:UF:179:VAL:HG22	2.37	0.44
45:UF:12:CYS:O	45:UF:16:ILE:HG12	2.18	0.44
45:UF:221:THR:HG23	45:UF:224:ASP:H	1.83	0.44
44:UI:104:ALA:H	44:UI:408:TYR:HE2	1.66	0.44
44:UK:231:ILE:HD12	44:UK:231:ILE:H	1.82	0.44
45:UL:23:VAL:O	45:UL:27:GLU:HB2	2.17	0.44
45:UL:97:ALA:HB3	45:UL:143:THR:CB	2.35	0.44
45:UL:238:CYS:SG	45:UL:318:ARG:CZ	3.05	0.44
45:UL:296:ALA:O	45:UL:299:MET:HG2	2.17	0.44
45:UL:310:TYR:CE1	45:UL:371:SER:HB2	2.53	0.44
44:UM:9:VAL:CG1	44:UM:139:ASN:HB3	2.48	0.44
44:UM:115:VAL:HG11	44:UM:152:LEU:CD2	2.48	0.44
45:UN:117:LEU:HD12	45:UN:120:VAL:CG1	2.48	0.44
45:UN:139:LEU:HA	45:UN:145:SER:HB3	1.99	0.44
45:UN:152:ILE:HD12	45:UN:164:MET:HE1	1.99	0.44
45:UN:198:GLU:HB3	45:UN:200:MET:HE3	1.98	0.44
45:UN:391:ARG:HA	45:UN:391:ARG:HD2	1.85	0.44
45:UN:395:LEU:HG	45:UN:399:THR:HG23	1.99	0.44
44:VA:363:VAL:HG22	44:VA:364:PRO:HD2	1.99	0.44
45:VB:83:GLN:HA	45:VB:83:GLN:OE1	2.16	0.44
45:VB:105:HIS:HA	45:VB:150:LEU:HD11	1.99	0.44
45:VB:134:GLN:HE22	45:VB:136:THR:CG2	2.31	0.44
45:VB:162:ARG:NE	45:VB:162:ARG:HA	2.32	0.44
45:VB:221:THR:HG23	45:VB:223:GLY:H	1.82	0.44
45:VB:263:LEU:HD23	45:VB:422:TYR:HE1	1.81	0.44
45:VB:272:PRO:HA	45:VB:292:GLN:OE1	2.17	0.44
45:VB:289:LEU:O	45:VB:293:MET:HG3	2.18	0.44
44:VC:156:ARG:O	44:VC:159:VAL:HG12	2.17	0.44
44:VC:223:THR:N	45:VD:322:SER:HB2	2.32	0.44
45:VD:21:TRP:NE1	45:VD:63:ALA:HB2	2.33	0.44
45:VD:337:ASN:HB3	45:VD:340:TYR:CG	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:102:ASN:HD22	44:VG:105:ARG:HG3	1.79	0.44
44:VG:313:MET:HA	44:VG:344:VAL:HG11	1.99	0.44
45:VH:132:GLY:HA3	45:VH:163:ILE:CG1	2.47	0.44
45:VH:285:THR:OG1	45:VH:288:GLU:HG2	2.18	0.44
45:VH:383:GLU:O	45:VH:386:THR:HG22	2.18	0.44
44:VI:260:VAL:O	44:VI:260:VAL:HG13	2.17	0.44
44:VI:306:ASP:OD2	44:VI:308:ARG:NE	2.41	0.44
45:VJ:181:GLU:N	45:VJ:182:PRO:HD2	2.32	0.44
44:VK:54:SER:H	44:VK:61:HIS:HB3	1.81	0.44
44:VK:270:SER:HB2	44:VK:378:ILE:CD1	2.47	0.44
45:VL:115:SER:O	45:VL:119:VAL:HG12	2.16	0.44
44:WA:219:ILE:HG22	44:WA:222:PRO:HD3	1.98	0.44
45:WB:252:LYS:HE2	45:WB:350:LYS:NZ	2.32	0.44
44:WC:319:TYR:CZ	44:WC:328:VAL:HG13	2.52	0.44
45:WD:20:PHE:O	45:WD:24:ILE:CD1	2.66	0.44
45:WD:238:CYS:SG	45:WD:239:CYS:N	2.90	0.44
45:WF:104:GLY:O	45:WF:147:MET:N	2.51	0.44
45:WF:139:LEU:HA	45:WF:145:SER:HB3	2.00	0.44
45:WF:325:GLU:HA	45:WF:328:GLU:HG2	1.98	0.44
44:WG:175:PRO:HD3	44:WG:205:ASP:OD2	2.17	0.44
44:WG:233:GLN:HB3	44:WG:272:TYR:CE1	2.51	0.44
44:WI:10:GLY:O	44:WI:13:GLY:N	2.50	0.44
44:WI:11:GLN:HE22	45:WJ:247:ASN:N	2.12	0.44
44:WI:182:VAL:C	44:WI:184:PRO:HD2	2.37	0.44
44:WI:203:MET:CE	44:WI:204:LEU:N	2.80	0.44
44:WI:264:ARG:HG2	44:WI:431:ASP:OD2	2.18	0.44
44:WI:323:VAL:HG23	44:WI:323:VAL:O	2.17	0.44
44:WI:439:THR:HB	45:WL:391:ARG:HH11	1.83	0.44
45:WJ:223:GLY:O	45:WJ:226:ASN:HB2	2.17	0.44
45:WJ:262:ARG:O	45:WJ:264:HIS:N	2.50	0.44
44:WK:118:CYS:O	44:WK:121:ARG:N	2.50	0.44
44:WK:205:ASP:OD1	44:WK:303:ALA:HA	2.18	0.44
44:WK:272:TYR:CE1	44:WK:376:CYS:HB2	2.52	0.44
44:WK:320:ARG:HD3	44:WK:360:PRO:HG3	1.98	0.44
44:WK:398:MET:CE	45:WL:346:PRO:HD2	2.47	0.44
45:WL:61:PRO:HD2	45:WL:84:LEU:O	2.17	0.44
44:WM:269:LEU:CD1	44:WM:305:CYS:HB3	2.47	0.44
44:WM:273:ALA:HA	44:WM:275:ILE:CD1	2.45	0.44
1:6H:217:GLN:HG3	45:FD:357:PRO:HG3	1.99	0.44
4:0C:53:TYR:CB	45:EH:322:SER:HB2	2.40	0.44
4:0C:58:GLY:HA3	44:EI:279:GLU:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1H:115:ARG:HH22	45:HL:280:GLN:N	2.13	0.44
25:1P:395:GLN:CB	44:TA:370:LYS:HZ2	2.31	0.44
2:2A:99:GLY:HA3	45:MJ:81:PHE:HE1	1.81	0.44
26:2R:240:LEU:HD13	44:BG:130:THR:OG1	2.17	0.44
6:3E:119:ASP:OD1	35:6R:579:ASN:ND2	2.49	0.44
32:3I:229:PHE:HE2	45:GL:209:ASP:OD2	2.00	0.44
24:3O:365:ILE:HG21	44:UI:372:MET:CE	2.47	0.44
12:3S:98:GLN:HB3	45:MN:194:GLU:OE2	2.17	0.44
14:3U:193:LYS:HE2	45:WN:79:GLY:CA	2.46	0.44
16:3X:75:LEU:HA	45:MN:280:GLN:NE2	2.32	0.44
28:4C:218:ARG:NH1	45:KN:320:ARG:HD3	2.32	0.44
35:4R:407:LYS:C	45:EF:218:THR:HG21	2.37	0.44
37:5C:104:PRO:HB3	44:KI:390:ARG:HH12	1.82	0.44
37:5D:83:THR:CG2	44:NM:225:THR:HG22	2.43	0.44
37:5D:107:TYR:H	44:NM:279:GLU:H	1.66	0.44
38:5H:44:ARG:CZ	38:5H:45:PRO:HD2	2.46	0.44
39:5J:106:GLY:O	39:5J:110:LYS:HE2	2.18	0.44
35:5R:33:LEU:HD13	45:LJ:94:GLN:HB3	2.00	0.44
35:5R:343:TYR:CZ	45:CJ:80:PRO:HG2	2.52	0.44
41:6G:266:PRO:O	41:6G:267:ASP:HB2	2.18	0.44
35:6R:417:TYR:HH	44:EM:372:MET:CE	2.28	0.44
35:7R:133:LYS:HA	35:7R:141:GLN:NE2	2.33	0.44
35:7R:205:PRO:HD2	35:7R:205:PRO:O	2.16	0.44
35:7R:413:ILE:HD12	44:DA:58:ALA:HB3	2.00	0.44
35:7R:445:SER:HB2	35:7R:454:MET:HE2	1.99	0.44
43:8R:206:UNK:O	43:8R:210:UNK:N	2.50	0.44
44:AA:404:PHE:CZ	45:AB:259:PRO:HB3	2.52	0.44
45:AB:274:THR:HG23	45:AB:279:GLN:HA	1.99	0.44
45:AB:293:MET:SD	45:AB:367:PHE:HB2	2.58	0.44
44:AC:323:VAL:CG1	44:AC:373:ARG:HG2	2.47	0.44
44:AC:362:VAL:CG1	44:AC:370:LYS:HB3	2.43	0.44
44:AG:102:ASN:OD1	44:AG:105:ARG:HG3	2.17	0.44
44:AG:191:THR:O	44:AG:195:LEU:HB2	2.17	0.44
44:AG:224:TYR:HE2	45:AH:246:LEU:CD1	2.26	0.44
45:AH:170:VAL:HG23	45:AH:377:MET:CE	2.47	0.44
44:AI:70:LEU:HA	44:AI:95:GLY:HA3	2.00	0.44
44:AI:228:ASN:O	44:AI:231:ILE:HG22	2.17	0.44
44:AI:304:LYS:HA	44:AI:304:LYS:HD2	1.80	0.44
44:AI:326:LYS:HB3	45:AL:220:PRO:HG2	1.99	0.44
44:AK:66:VAL:HG11	44:AK:122:ILE:HD11	1.99	0.44
44:AK:102:ASN:ND2	44:AK:411:GLU:HG3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:317:MET:HE1	44:AK:351:PHE:CE2	2.53	0.44
45:AL:73:MET:HE1	45:AL:92:PHE:CB	2.38	0.44
45:AL:391:ARG:HG3	45:AL:391:ARG:HH11	1.81	0.44
44:AM:324:VAL:HG13	44:AM:325:PRO:HD2	2.00	0.44
44:AM:372:MET:O	44:AM:373:ARG:HG2	2.17	0.44
44:BA:27:GLU:OE2	44:BA:28:HIS:CE1	2.71	0.44
44:BC:205:ASP:CG	44:BC:303:ALA:HA	2.38	0.44
45:BD:36:TYR:CZ	45:BD:38:GLY:HA3	2.51	0.44
45:BD:150:LEU:HD12	45:BD:151:LEU:N	2.33	0.44
45:BD:253:LEU:O	45:BD:257:LEU:HD13	2.17	0.44
44:BE:114:ILE:HG22	44:BE:114:ILE:O	2.16	0.44
44:BE:288:VAL:HG11	44:BE:327:ASP:HB3	1.98	0.44
45:BF:1:MET:C	45:BF:2:ARG:HG2	2.38	0.44
45:BF:7:ILE:HG12	45:BF:64:ILE:HB	1.99	0.44
45:BF:72:THR:HG23	45:BF:73:MET:N	2.33	0.44
44:BG:343:PHE:CE1	44:BG:351:PHE:HE1	2.35	0.44
44:BI:311:LYS:CB	44:BI:344:VAL:HG12	2.47	0.44
44:BI:336:LYS:HE3	44:BI:343:PHE:CE2	2.53	0.44
44:BI:387:VAL:HA	44:BI:390:ARG:HH11	1.82	0.44
44:BK:188:ILE:HD12	44:BK:425:LEU:HD12	1.99	0.44
44:BK:257:THR:HA	45:BN:397:TRP:NE1	2.32	0.44
44:BK:312:TYR:O	44:BK:344:VAL:HG13	2.18	0.44
45:BL:287:PRO:HA	45:BL:329:GLN:HE22	1.83	0.44
44:BM:183:GLU:CD	44:BM:184:PRO:HD3	2.38	0.44
45:BN:18:ALA:O	45:BN:22:GLU:HG3	2.18	0.44
45:BN:132:GLY:CA	45:BN:162:ARG:HB3	2.38	0.44
45:BN:248:SER:OG	45:BN:252:LYS:HB3	2.18	0.44
45:BN:407:GLU:O	45:BN:410:GLU:HB2	2.17	0.44
45:CB:170:VAL:CG1	45:CB:171:PRO:HD2	2.48	0.44
44:CC:256:GLN:NE2	45:CD:397:TRP:HB3	2.32	0.44
44:CE:14:ILE:HD13	44:CE:74:VAL:HG11	2.00	0.44
44:CE:66:VAL:O	44:CE:66:VAL:HG13	2.18	0.44
44:CE:138:PHE:CE1	44:CE:169:PHE:HB2	2.52	0.44
44:CG:439:THR:HB	45:CH:391:ARG:HH11	1.79	0.44
45:CH:87:PRO:HG2	45:DH:281:TYR:OH	2.17	0.44
45:CH:286:VAL:N	45:CH:287:PRO:CD	2.80	0.44
45:CH:356:ILE:CG2	45:CH:357:PRO:HA	2.47	0.44
44:CI:277:SER:O	44:CI:281:ALA:HB2	2.18	0.44
45:CJ:70:PRO:O	45:CJ:74:ASP:HB2	2.17	0.44
44:CK:132:LEU:O	44:CK:132:LEU:HG	2.17	0.44
44:CK:203:MET:HG3	44:CK:384:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CK:217:LEU:HD21	44:CK:275:ILE:CG2	2.48	0.44
44:CK:217:LEU:HD21	44:CK:275:ILE:HG22	1.98	0.44
45:CL:212:PHE:HB2	45:CL:213:ARG:HH11	1.81	0.44
44:CM:106:GLY:O	44:CM:149:LEU:HD22	2.17	0.44
45:DB:119:VAL:HA	45:DB:122:LYS:NZ	2.31	0.44
44:DC:312:TYR:HB2	44:DC:343:PHE:CD1	2.53	0.44
44:DE:3:GLU:OE1	44:DE:3:GLU:N	2.51	0.44
45:DF:67:ASP:CG	45:DF:72:THR:HG21	2.37	0.44
45:DF:161:ASP:O	45:DF:162:ARG:NH2	2.50	0.44
44:DG:95:GLY:O	44:DG:96:LYS:HD2	2.16	0.44
44:DG:298:PRO:HG3	44:DG:308:ARG:NH1	2.33	0.44
44:DI:183:GLU:HG2	44:DI:184:PRO:N	2.31	0.44
45:DJ:73:MET:HE1	45:DJ:92:PHE:CB	2.45	0.44
45:DJ:168:SER:O	45:DJ:201:VAL:HA	2.17	0.44
45:DJ:183:TYR:CZ	45:DJ:388:MET:HB3	2.52	0.44
45:DJ:286:VAL:CG1	45:DJ:321:MET:HE3	2.47	0.44
44:DK:70:LEU:HB3	44:DK:97:GLU:O	2.16	0.44
44:DK:261:PRO:HA	45:DL:394:PHE:CZ	2.53	0.44
44:DK:288:VAL:CG2	44:DK:323:VAL:HG21	2.40	0.44
44:DM:75:ILE:HG23	44:DM:92:LEU:HD23	1.99	0.44
44:DM:170:THR:O	44:DM:204:LEU:HB2	2.17	0.44
44:DM:203:MET:HG3	44:DM:384:ILE:CD1	2.48	0.44
44:DM:298:PRO:CA	44:DM:301:MET:CE	2.89	0.44
45:DN:70:PRO:O	45:DN:71:GLY:C	2.56	0.44
45:DN:318:ARG:HD3	45:DN:358:PRO:HD3	1.99	0.44
44:EA:115:VAL:CG2	44:EA:156:ARG:HD2	2.48	0.44
45:EB:246:LEU:HD23	46:EC:501:GTP:H3'	1.99	0.44
45:EB:315:ALA:HA	45:EB:366:THR:O	2.18	0.44
44:EC:350:GLY:CA	45:ED:179:VAL:HG12	2.48	0.44
44:EE:175:PRO:HD2	44:EE:304:LYS:HG3	1.99	0.44
44:EE:291:ILE:HG13	44:EE:292:THR:H	1.82	0.44
45:EF:207:LEU:HD23	45:EF:300:MET:HE1	2.00	0.44
45:EF:221:THR:CG2	45:EF:222:TYR:H	2.30	0.44
45:EF:324:LYS:HD3	44:EG:222:PRO:CG	2.47	0.44
44:EI:231:ILE:HG22	44:EI:235:ILE:CD1	2.46	0.44
45:EJ:102:ALA:O	45:EJ:107:THR:HG22	2.17	0.44
45:EJ:240:LEU:HD12	45:EJ:249:ASP:CB	2.48	0.44
45:EJ:245:GLN:HG3	45:EJ:353:ILE:HG21	2.00	0.44
44:EK:144:GLY:HA2	44:EK:147:SER:OG	2.16	0.44
44:EK:256:GLN:OE1	45:EL:397:TRP:HZ2	2.01	0.44
44:EM:11:GLN:HG3	44:EM:74:VAL:CG1	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EM:437:ILE:O	44:EM:437:ILE:HG13	2.16	0.44
45:EN:8:GLN:NE2	45:EN:65:LEU:HG	2.33	0.44
45:EN:183:TYR:O	45:EN:187:LEU:HD13	2.17	0.44
44:FA:5:ILE:HG23	44:FA:64:ARG:O	2.17	0.44
44:FA:10:GLY:HA3	46:FA:501:GTP:O2B	2.18	0.44
44:FA:189:LEU:O	44:FA:193:SER:N	2.49	0.44
44:FA:191:THR:O	44:FA:195:LEU:HB2	2.16	0.44
45:FB:86:ARG:HH11	45:GB:281:TYR:HB3	1.83	0.44
44:FC:90:GLU:OE2	44:FC:121:ARG:NH2	2.50	0.44
44:FC:183:GLU:N	44:FC:184:PRO:CD	2.80	0.44
44:FC:238:LEU:HD21	44:FC:252:ILE:CD1	2.47	0.44
44:FC:325:PRO:HG2	45:FF:222:TYR:CE2	2.53	0.44
45:FD:8:GLN:NE2	45:FD:14:ASN:O	2.50	0.44
45:FD:36:TYR:CE1	45:FD:44:LEU:HD21	2.53	0.44
45:FD:183:TYR:HB3	45:FD:398:TYR:CE2	2.51	0.44
44:FE:246:GLY:CA	44:FE:357:TYR:CE1	3.01	0.44
45:FH:289:LEU:O	45:FH:293:MET:HB2	2.17	0.44
45:FH:378:PHE:O	45:FH:381:VAL:HG12	2.17	0.44
45:FJ:170:VAL:CG2	45:FJ:171:PRO:HD2	2.47	0.44
45:FJ:178:THR:H	45:FJ:181:GLU:CD	2.20	0.44
45:FJ:215:LEU:HD23	45:FJ:215:LEU:C	2.37	0.44
45:FJ:247:ASN:O	45:FJ:252:LYS:NZ	2.38	0.44
45:FJ:256:ASN:C	45:FJ:257:LEU:HD12	2.37	0.44
44:FK:14:ILE:CD1	44:FK:69:ASP:HB2	2.47	0.44
44:FK:216:ASN:ND2	44:FK:275:ILE:HB	2.32	0.44
44:FK:240:ALA:O	44:FK:356:ASN:ND2	2.51	0.44
44:FK:256:GLN:O	45:FN:397:TRP:HZ2	2.01	0.44
44:FK:284:GLU:OE1	44:FK:286:LEU:N	2.42	0.44
44:FK:289:ALA:O	44:FK:292:THR:HG22	2.17	0.44
45:FL:9:GLY:HA2	45:FL:66:MET:SD	2.56	0.44
45:FL:74:ASP:HA	45:FL:77:ARG:HH12	1.81	0.44
44:FM:24:PHE:HD1	44:FM:28:HIS:CE1	2.35	0.44
44:FM:103:PHE:H	44:FM:408:TYR:HE2	1.64	0.44
44:FM:344:VAL:HG21	44:FM:346:TRP:CE2	2.52	0.44
45:FN:68:LEU:O	45:FN:93:GLY:HA3	2.17	0.44
45:FN:86:ARG:HB3	45:FN:89:ASN:OD1	2.17	0.44
44:GA:291:ILE:HG13	44:GA:292:THR:N	2.32	0.44
45:GB:58:ARG:NH2	45:GB:86:ARG:HH22	2.15	0.44
45:GB:135:ILE:CG1	45:GB:164:MET:HE1	2.46	0.44
45:GB:237:THR:OG1	45:GB:240:LEU:HD11	2.17	0.44
44:GC:121:ARG:O	44:GC:125:LEU:HD23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:193:VAL:HA	45:GD:264:HIS:CE1	2.52	0.44
45:GD:278:SER:O	45:GD:281:TYR:N	2.38	0.44
45:GD:425:TYR:HA	45:GD:428:ALA:HB2	1.98	0.44
44:GE:153:LEU:O	44:GE:157:LEU:HG	2.18	0.44
44:GE:214:ARG:CZ	44:GE:214:ARG:HB3	2.46	0.44
44:GE:292:THR:HG21	44:GE:331:SER:HB3	1.99	0.44
44:GE:313:MET:HE3	44:GE:382:THR:HG22	1.98	0.44
45:GF:163:ILE:O	45:GF:164:MET:HE2	2.18	0.44
44:GG:275:ILE:HG23	44:GG:368:LEU:CD1	2.48	0.44
45:GH:291:GLN:O	45:GH:295:ASP:N	2.50	0.44
45:GL:186:THR:O	45:GL:189:VAL:HG12	2.17	0.44
45:GN:4:ILE:HA	45:GN:130:LEU:CD1	2.45	0.44
44:HA:322:ASP:OD1	44:HA:373:ARG:HD3	2.17	0.44
44:HA:324:VAL:CG2	44:HA:325:PRO:HD2	2.48	0.44
45:HB:135:ILE:HB	45:HB:166:THR:HG22	1.98	0.44
45:HB:398:TYR:O	45:HB:403:MET:HG3	2.17	0.44
44:HE:187:SER:O	44:HE:190:SER:OG	2.30	0.44
45:HJ:86:ARG:NH1	45:IJ:282:ARG:HA	2.32	0.44
45:HJ:105:HIS:CD2	45:HJ:149:THR:HG23	2.53	0.44
44:HK:247:ALA:HB2	44:HK:357:TYR:OH	2.17	0.44
44:HK:248:LEU:CB	44:HK:355:ILE:HD13	2.42	0.44
45:HN:65:LEU:HD21	45:HN:85:PHE:HE2	1.83	0.44
45:HN:86:ARG:HD2	45:IN:281:TYR:HB2	1.99	0.44
44:IA:292:THR:HG23	44:IA:293:ASN:N	2.32	0.44
44:IA:301:MET:CE	44:IA:377:MET:HE1	2.46	0.44
45:IB:150:LEU:CD2	45:IB:154:LYS:HG3	2.42	0.44
44:IC:100:ALA:HB1	45:ID:252:LYS:HA	1.99	0.44
44:IC:183:GLU:HG3	44:IC:184:PRO:CD	2.47	0.44
44:IC:313:MET:CE	44:IC:382:THR:HG22	2.47	0.44
45:ID:169:VAL:HG13	45:ID:202:ILE:O	2.18	0.44
45:ID:325:GLU:O	45:ID:329:GLN:HG2	2.17	0.44
45:IF:8:GLN:HE21	45:IF:65:LEU:HG	1.82	0.44
45:IF:25:SER:O	45:IF:30:ILE:N	2.47	0.44
44:IG:114:ILE:HG22	44:IG:114:ILE:O	2.16	0.44
44:IG:415:GLU:OE1	44:IG:415:GLU:HA	2.18	0.44
44:II:205:ASP:CG	44:II:303:ALA:HA	2.38	0.44
44:II:226:ASN:ND2	44:II:367:ASP:OD2	2.51	0.44
44:IK:183:GLU:HG2	44:IK:184:PRO:N	2.31	0.44
44:IK:183:GLU:CD	44:IK:184:PRO:HD3	2.38	0.44
44:IK:288:VAL:HA	44:IK:291:ILE:CG1	2.41	0.44
44:IM:183:GLU:N	44:IM:183:GLU:OE1	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:257:LEU:HA	45:IN:312:THR:CG2	2.41	0.44
45:IN:321:MET:HE2	45:IN:325:GLU:OE2	2.18	0.44
44:JA:206:ASN:HA	44:JA:209:ILE:HD12	1.99	0.44
45:JB:272:PRO:HD3	45:JB:364:ALA:HA	2.00	0.44
44:JC:181:VAL:CG2	45:JD:348:ASN:HA	2.46	0.44
44:JC:217:LEU:CD2	44:JC:275:ILE:HG22	2.38	0.44
44:JC:402:ARG:HB3	44:JC:405:VAL:HG11	2.00	0.44
45:JD:86:ARG:HH21	45:KD:281:TYR:HA	1.80	0.44
45:JD:286:VAL:HB	45:JD:287:PRO:HD3	2.00	0.44
44:JE:223:THR:HG23	44:JE:225:THR:OG1	2.17	0.44
44:JE:224:TYR:CG	45:JF:323:THR:HG21	2.52	0.44
44:JE:256:GLN:NE2	44:JE:257:THR:HG23	2.32	0.44
45:JF:162:ARG:HA	45:JF:162:ARG:HE	1.82	0.44
45:JF:202:ILE:CD1	45:JF:229:VAL:HG13	2.47	0.44
44:JG:156:ARG:HA	44:JG:156:ARG:HD2	1.82	0.44
44:JG:238:LEU:HA	44:JG:318:MET:HE3	2.00	0.44
44:JG:288:VAL:HG11	44:JG:327:ASP:HB3	2.00	0.44
45:JH:299:MET:HG3	45:JH:305:PRO:HG3	1.99	0.44
44:JK:8:HIS:CD2	44:JK:138:PHE:HB2	2.52	0.44
44:JK:258:ASN:HA	45:JN:179:VAL:CG2	2.47	0.44
45:JL:3:GLU:CB	45:JL:62:ARG:HH22	2.22	0.44
44:JM:195:LEU:HD12	44:JM:267:PHE:CE2	2.52	0.44
44:JM:306:ASP:OD1	44:JM:308:ARG:NH2	2.45	0.44
45:JN:60:VAL:HG13	45:JN:60:VAL:O	2.17	0.44
44:KA:21:TRP:HA	44:KA:21:TRP:CE3	2.53	0.44
45:KB:105:HIS:HB2	45:KB:146:GLY:HA2	1.98	0.44
45:KB:235:GLY:HA3	45:KB:366:THR:HG21	1.99	0.44
44:KC:28:HIS:CD2	44:KC:49:PHE:HA	2.53	0.44
45:KD:317:PHE:CE1	45:KD:326:VAL:HG22	2.51	0.44
44:KE:14:ILE:HD13	44:KE:75:ILE:CG1	2.48	0.44
44:KE:69:ASP:CB	44:KE:75:ILE:HD11	2.43	0.44
44:KE:91:GLN:HG2	44:KE:92:LEU:CG	2.48	0.44
44:KE:288:VAL:HG11	44:KE:327:ASP:CB	2.44	0.44
44:KE:295:ALA:HB1	44:KE:377:MET:SD	2.57	0.44
45:KF:105:HIS:CD2	45:KF:150:LEU:HD22	2.52	0.44
44:KG:105:ARG:HE	44:KG:110:ILE:HG21	1.83	0.44
44:KG:324:VAL:HG21	44:KG:326:LYS:HE3	1.97	0.44
45:KH:143:THR:HG22	48:KH:501:GDP:O1B	2.17	0.44
45:KJ:20:PHE:CD2	45:KJ:233:MET:HB3	2.51	0.44
44:KK:27:GLU:CD	44:KK:243:ARG:HH12	2.21	0.44
44:KK:102:ASN:HB3	44:KK:105:ARG:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:265:ILE:HD12	44:KK:432:TYR:CZ	2.52	0.44
44:KK:304:LYS:HA	44:KK:304:LYS:HD2	1.71	0.44
44:KK:335:ILE:HD13	44:KK:338:LYS:HE3	2.00	0.44
45:KL:3:GLU:HG3	45:KL:62:ARG:NH1	2.29	0.44
45:KL:285:THR:CB	45:KL:287:PRO:HD2	2.48	0.44
44:KM:296:PHE:CD2	44:KM:335:ILE:HG12	2.52	0.44
44:LA:36:MET:HG3	44:LA:61:HIS:CE1	2.52	0.44
44:LC:417:GLU:CA	44:LC:420:GLU:HG2	2.44	0.44
44:LG:416:GLY:O	44:LG:420:GLU:N	2.43	0.44
44:LI:8:HIS:CD2	44:LI:138:PHE:HB2	2.49	0.44
44:LI:132:LEU:HG	44:LI:132:LEU:O	2.17	0.44
44:LI:314:ALA:O	44:LI:379:SER:HB2	2.17	0.44
44:LM:104:ALA:O	44:LM:108:TYR:N	2.46	0.44
44:LM:226:ASN:OD1	44:LM:229:ARG:NH2	2.50	0.44
45:LN:149:THR:HA	45:LN:152:ILE:HD13	1.98	0.44
45:MB:130:LEU:HD12	45:MB:131:GLN:H	1.81	0.44
44:MC:88:HIS:ND1	44:MC:90:GLU:HG2	2.31	0.44
44:MC:173:PRO:HD2	44:MC:391:LEU:HD21	1.99	0.44
44:MC:288:VAL:CA	44:MC:291:ILE:HG12	2.46	0.44
45:MD:256:ASN:O	45:MD:257:LEU:HD22	2.17	0.44
44:ME:287:SER:O	44:ME:290:GLU:HG2	2.17	0.44
44:ME:291:ILE:CD1	44:ME:375:VAL:HG23	2.47	0.44
45:MF:113:ILE:HD13	45:MF:150:LEU:HD23	2.00	0.44
45:MF:143:THR:HG23	45:MF:144:GLY:N	2.32	0.44
44:MG:181:VAL:CG2	45:MH:345:ILE:HD11	2.48	0.44
44:MG:291:ILE:HD11	44:MG:375:VAL:HG13	1.98	0.44
44:MI:15:GLN:C	44:MI:228:ASN:HD21	2.21	0.44
45:MJ:163:ILE:HG13	45:MJ:164:MET:H	1.82	0.44
45:MJ:284:LEU:CB	45:MJ:362:LYS:HZ1	2.30	0.44
44:MM:21:TRP:HA	44:MM:24:PHE:HB2	2.00	0.44
44:MM:323:VAL:O	44:MM:323:VAL:HG13	2.18	0.44
45:MN:325:GLU:CA	45:MN:328:GLU:HG2	2.35	0.44
44:NC:157:LEU:HD22	44:NC:166:LYS:CE	2.47	0.44
45:ND:302:ALA:HB3	45:ND:377:MET:HE1	1.99	0.44
44:NE:166:LYS:C	44:NE:167:LEU:HD12	2.38	0.44
44:NE:171:ILE:CD1	44:NE:204:LEU:HB2	2.47	0.44
45:NF:100:ASN:ND2	45:NF:398:TYR:HE2	2.14	0.44
45:NF:132:GLY:HA2	45:NF:162:ARG:HG3	2.00	0.44
44:NG:160:ASP:C	44:NG:161:TYR:HD1	2.20	0.44
45:NH:58:ARG:HG2	45:NH:59:TYR:N	2.32	0.44
45:NH:94:GLN:OE1	45:NH:94:GLN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:311:LEU:HD12	45:NH:426:GLN:HE21	1.82	0.44
44:NI:30:ILE:HD12	44:NI:36:MET:HB3	1.99	0.44
44:NI:217:LEU:HA	44:NI:277:SER:HB2	1.98	0.44
44:NK:31:GLN:CD	44:NK:32:PRO:HD2	2.37	0.44
44:NK:121:ARG:HE	44:NK:125:LEU:CD2	2.30	0.44
44:NK:138:PHE:HD1	44:NK:169:PHE:HB2	1.83	0.44
45:NL:20:PHE:CZ	45:NL:24:ILE:HG13	2.52	0.44
45:NL:170:VAL:HG23	45:NL:171:PRO:HD2	1.99	0.44
45:NL:321:MET:HE1	45:NL:326:VAL:HG23	1.98	0.44
44:NM:215:ARG:CZ	44:NM:299:ALA:HB1	2.47	0.44
44:OA:46:ASP:OD1	44:OA:48:ALA:HB2	2.17	0.44
45:OB:3:GLU:OE1	45:OB:3:GLU:N	2.50	0.44
45:OB:229:VAL:O	45:OB:232:ALA:N	2.51	0.44
44:OC:111:GLY:HA3	44:OC:149:LEU:HD11	1.98	0.44
44:OC:236:SER:HA	44:OC:239:THR:HG22	1.99	0.44
44:OC:250:VAL:HG12	44:OC:255:PHE:HE1	1.82	0.44
45:OD:86:ARG:HG2	45:PD:281:TYR:CD2	2.51	0.44
44:OE:88:HIS:CD2	44:PE:283:HIS:HB2	2.51	0.44
44:OG:74:VAL:O	44:OG:78:VAL:N	2.43	0.44
44:OG:97:GLU:HG2	44:OG:105:ARG:HH22	1.81	0.44
44:OG:149:LEU:O	44:OG:153:LEU:HD13	2.17	0.44
44:OG:358:GLN:CG	44:OG:359:PRO:HD2	2.48	0.44
45:OH:137:HIS:HB2	45:OH:144:GLY:O	2.17	0.44
44:OI:166:LYS:C	44:OI:167:LEU:HD22	2.37	0.44
45:OJ:7:ILE:HD13	45:OJ:120:VAL:CG2	2.47	0.44
44:OK:213:CYS:CA	44:OK:217:LEU:HD12	2.45	0.44
44:OK:390:ARG:HG3	44:OK:391:LEU:N	2.32	0.44
45:OL:213:ARG:NH1	45:OL:214:THR:HG22	2.33	0.44
44:OM:104:ALA:HB3	44:OM:411:GLU:CB	2.48	0.44
45:ON:116:VAL:O	45:ON:119:VAL:HG12	2.17	0.44
45:ON:309:ARG:NH2	45:ON:342:VAL:HG23	2.32	0.44
44:PA:54:SER:N	44:PA:62:VAL:O	2.50	0.44
44:PA:102:ASN:HD21	44:PA:411:GLU:HG3	1.82	0.44
44:PA:210:TYR:HB3	45:PB:324:LYS:NZ	2.32	0.44
44:PA:276:ILE:HG12	44:PA:281:ALA:HB2	1.99	0.44
44:PC:70:LEU:HA	44:PC:70:LEU:HD23	1.73	0.44
44:PC:141:VAL:HG13	44:PC:173:PRO:HD3	1.99	0.44
45:PD:137:HIS:CE1	45:PD:139:LEU:HD12	2.52	0.44
45:PD:317:PHE:HB2	45:PD:353:ILE:HA	1.99	0.44
44:PE:7:ILE:HB	44:PE:137:VAL:CB	2.47	0.44
44:PE:292:THR:HG21	44:PE:331:SER:CB	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PF:11:GLN:HB3	48:PF:501:GDP:O3B	2.17	0.44
45:PF:12:CYS:HB3	45:PF:138:SER:CB	2.46	0.44
45:PF:202:ILE:HD13	45:PF:229:VAL:HG23	1.98	0.44
45:PF:212:PHE:CZ	45:PF:220:PRO:HG2	2.53	0.44
45:PF:303:ALA:HB2	45:PF:377:MET:HE1	1.99	0.44
44:PG:14:ILE:HD13	44:PG:74:VAL:HG13	2.00	0.44
44:PG:141:VAL:CG2	44:PG:187:SER:HA	2.48	0.44
44:PG:169:PHE:CD1	44:PG:202:VAL:HB	2.44	0.44
44:PG:256:GLN:OE1	45:PJ:397:TRP:CZ2	2.70	0.44
45:PH:55:THR:HG23	45:QF:283:ALA:HA	1.99	0.44
45:PH:202:ILE:HD11	45:PH:268:ILE:HD11	1.98	0.44
45:PH:317:PHE:O	45:PH:318:ARG:HG2	2.18	0.44
44:PI:210:TYR:CE1	45:PJ:324:LYS:HB2	2.52	0.44
44:PI:247:ALA:HB2	44:PI:357:TYR:HH	1.82	0.44
45:PJ:106:TYR:CD2	45:PJ:403:MET:HE3	2.53	0.44
45:PJ:325:GLU:O	45:PJ:329:GLN:HG2	2.17	0.44
45:PL:286:VAL:CG2	45:PL:321:MET:HE2	2.48	0.44
44:PM:14:ILE:CD1	44:PM:75:ILE:HD11	2.47	0.44
44:PM:103:PHE:CD2	44:PM:189:LEU:HD13	2.53	0.44
44:PM:240:ALA:HB1	44:PM:356:ASN:ND2	2.33	0.44
45:PN:310:TYR:HA	45:PN:371:SER:HG	1.80	0.44
44:QA:16:VAL:HB	44:QA:228:ASN:OD1	2.18	0.44
44:QA:67:PHE:O	44:QA:93:ILE:HD12	2.16	0.44
45:QB:317:PHE:CE2	45:QB:321:MET:HE1	2.53	0.44
44:QC:157:LEU:O	44:QC:161:TYR:N	2.34	0.44
45:QD:29:GLY:CA	45:QD:43:GLN:HE21	2.31	0.44
45:QD:143:THR:HG23	48:QD:501:GDP:O1B	2.18	0.44
45:QD:330:MET:CA	45:QD:333:VAL:HG12	2.47	0.44
45:QD:333:VAL:HG13	45:QD:334:GLN:N	2.33	0.44
44:QE:213:CYS:SG	44:QE:217:LEU:HD12	2.57	0.44
44:QE:384:ILE:HG22	44:QE:388:PHE:HE2	1.83	0.44
44:QE:439:THR:HG21	45:QF:390:ARG:CD	2.47	0.44
45:QF:11:GLN:HG3	45:QF:72:THR:CB	2.47	0.44
45:QF:36:TYR:CZ	45:QF:38:GLY:HA3	2.53	0.44
45:QF:134:GLN:HB3	45:QF:165:GLU:CB	2.45	0.44
45:QH:180:VAL:HG22	45:QH:180:VAL:O	2.18	0.44
45:QH:267:MET:SD	45:QH:299:MET:CE	3.06	0.44
45:QJ:289:LEU:HD11	45:QJ:363:MET:SD	2.57	0.44
44:QK:11:GLN:HB3	46:QK:501:GTP:O1B	2.18	0.44
44:QK:284:GLU:O	44:QK:286:LEU:HD23	2.18	0.44
44:QK:296:PHE:HE2	44:QK:335:ILE:HG13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:151:LEU:O	45:QN:151:LEU:HD23	2.16	0.44
45:QN:167:PHE:CE2	45:QN:233:MET:CE	3.01	0.44
44:RA:278:ALA:HB1	44:RA:282:TYR:HE2	1.83	0.44
45:RB:286:VAL:HG21	44:RC:221:ARG:HH12	1.83	0.44
45:RB:377:MET:HA	45:RB:380:ARG:HD2	1.98	0.44
45:RB:391:ARG:HA	45:RB:391:ARG:HD2	1.85	0.44
44:RC:183:GLU:N	44:RC:184:PRO:CD	2.80	0.44
45:RD:303:ALA:O	45:RD:305:PRO:HD3	2.16	0.44
44:RE:97:GLU:HG3	44:RE:98:ASP:N	2.32	0.44
44:RE:174:SER:HB3	44:RE:207:GLU:OE1	2.17	0.44
44:RE:375:VAL:HG22	44:RE:377:MET:HE3	2.00	0.44
45:RF:184:ASN:OD1	45:RF:185:ALA:N	2.50	0.44
45:RF:255:VAL:CA	44:RG:407:TRP:HZ3	2.28	0.44
44:RI:155:GLU:HG2	44:RI:197:HIS:NE2	2.33	0.44
44:RI:213:CYS:O	44:RI:217:LEU:HB2	2.16	0.44
45:RJ:62:ARG:HB2	45:RJ:123:GLU:HG2	1.98	0.44
45:RJ:68:LEU:HG	45:RJ:96:GLY:H	1.83	0.44
45:RJ:156:ARG:NH1	45:RJ:164:MET:SD	2.91	0.44
44:RK:6:SER:O	44:RK:66:VAL:HG22	2.18	0.44
44:RK:288:VAL:HG13	44:RK:289:ALA:N	2.33	0.44
45:RL:86:ARG:NH1	45:SL:278:SER:HB2	2.32	0.44
45:RL:242:PHE:HB3	45:RL:243:PRO:HD2	1.99	0.44
45:RL:267:MET:HE1	45:RL:371:SER:H	1.83	0.44
44:RM:174:SER:CB	44:RM:177:VAL:HB	2.47	0.44
44:RM:257:THR:HA	45:RN:397:TRP:NE1	2.33	0.44
44:RM:259:LEU:HD11	44:RM:316:SER:HB3	2.00	0.44
44:RM:261:PRO:HG3	45:RN:394:PHE:CE1	2.52	0.44
45:RN:25:SER:CB	45:RN:30:ILE:HB	2.48	0.44
45:RN:268:ILE:O	45:RN:300:MET:HG2	2.17	0.44
44:SA:23:LEU:O	44:SA:27:GLU:N	2.48	0.44
44:SA:69:ASP:O	44:SA:94:SER:HA	2.17	0.44
44:SA:387:VAL:CG2	44:SA:391:LEU:HD13	2.47	0.44
45:SB:3:GLU:HB3	45:SB:49:VAL:HA	2.00	0.44
45:SB:28:HIS:CB	45:SB:30:ILE:H	2.26	0.44
45:SB:54:ALA:HB1	45:TB:283:ALA:CA	2.48	0.44
45:SB:172:SER:OG	45:SB:175:VAL:HG22	2.17	0.44
44:SC:18:ASN:OD1	44:SC:78:VAL:HG22	2.18	0.44
45:SD:113:ILE:HD13	45:SD:150:LEU:HD22	2.00	0.44
45:SD:172:SER:HA	45:SD:380:ARG:NH2	2.33	0.44
45:SD:206:ALA:O	45:SD:210:ILE:HG13	2.18	0.44
44:SE:256:GLN:HB2	44:SE:260:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:335:ILE:HD12	44:SE:335:ILE:H	1.81	0.44
44:SE:390:ARG:HG3	44:SE:391:LEU:N	2.32	0.44
45:SF:86:ARG:NH1	45:TF:281:TYR:CB	2.80	0.44
44:SG:268:MET:CB	44:SG:380:ASN:OD1	2.61	0.44
45:SH:65:LEU:HD11	45:SH:85:PHE:CE2	2.53	0.44
45:SH:295:ASP:OD2	45:SH:297:LYS:HE2	2.18	0.44
45:SJ:4:ILE:HG22	45:SJ:131:GLN:HB3	1.99	0.44
45:SJ:251:ARG:HG3	45:SJ:251:ARG:NH1	2.31	0.44
45:SJ:363:MET:SD	45:SJ:364:ALA:N	2.91	0.44
45:SL:4:ILE:HD11	45:SL:50:TYR:CZ	2.52	0.44
45:SL:83:GLN:OE1	45:SL:83:GLN:HA	2.17	0.44
45:SL:183:TYR:CD2	45:SL:398:TYR:HE2	2.34	0.44
45:SL:202:ILE:CD1	45:SL:229:VAL:HG13	2.48	0.44
45:SL:323:THR:CA	45:SL:326:VAL:HG23	2.47	0.44
44:SM:52:PHE:O	44:SM:53:PHE:HB3	2.17	0.44
44:SM:248:LEU:HD21	44:SM:353:VAL:O	2.18	0.44
44:SM:273:ALA:O	44:SM:375:VAL:HG12	2.17	0.44
44:TA:235:ILE:HD12	44:TA:235:ILE:H	1.83	0.44
44:TA:288:VAL:O	44:TA:289:ALA:CB	2.64	0.44
45:TB:14:ASN:OD1	45:TB:65:LEU:HD23	2.18	0.44
45:TB:180:VAL:HG23	45:TB:183:TYR:HB2	2.00	0.44
45:TB:368:VAL:HG23	45:TB:368:VAL:O	2.17	0.44
45:TD:271:ALA:HB3	45:TD:365:VAL:CB	2.39	0.44
45:TF:113:ILE:O	45:TF:116:VAL:HG12	2.17	0.44
45:TF:166:THR:O	45:TF:200:MET:HB3	2.17	0.44
45:TF:217:LEU:HD12	45:TF:217:LEU:O	2.17	0.44
45:TF:354:CYS:SG	45:TF:356:ILE:HG22	2.58	0.44
44:TG:34:GLY:O	44:TG:60:LYS:HA	2.18	0.44
45:TH:203:ASP:HB2	45:TH:300:MET:O	2.18	0.44
45:TH:257:LEU:HD21	45:TH:314:SER:HB2	1.98	0.44
44:TI:79:ARG:O	44:TI:79:ARG:HD3	2.17	0.44
45:TJ:28:HIS:O	45:TJ:43:GLN:HB3	2.17	0.44
45:TJ:68:LEU:CG	45:TJ:96:GLY:HA2	2.47	0.44
44:TK:123:ARG:O	44:TK:126:ALA:N	2.51	0.44
45:TL:127:CYS:SG	45:TL:130:LEU:HB2	2.58	0.44
45:TL:314:SER:HG	45:TL:368:VAL:HB	1.80	0.44
44:TM:99:ALA:HB1	44:TM:105:ARG:HB3	1.99	0.44
44:TM:422:ARG:HH12	44:TM:426:ALA:HB2	1.83	0.44
45:TN:315:ALA:HB1	45:TN:317:PHE:CE1	2.53	0.44
44:UA:431:ASP:O	44:UA:434:GLU:HG3	2.17	0.44
44:UC:114:ILE:HD13	44:UC:117:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:328:VAL:HG11	44:UC:353:VAL:CG2	2.46	0.44
45:UD:32:PRO:HG3	45:UD:81:PHE:CZ	2.52	0.44
45:UD:121:ARG:HB2	45:UD:121:ARG:CZ	2.46	0.44
45:UF:86:ARG:NH2	45:VF:282:ARG:HA	2.33	0.44
45:UH:121:ARG:NH2	45:UH:158:GLU:OE2	2.50	0.44
45:UH:131:GLN:C	45:UH:162:ARG:HD3	2.38	0.44
45:UH:170:VAL:HG21	45:UH:377:MET:CE	2.47	0.44
44:UI:208:ALA:HB2	44:UI:304:LYS:HE3	1.99	0.44
45:UJ:99:ASN:HB3	45:UJ:180:VAL:HG11	1.98	0.44
45:UJ:315:ALA:C	45:UJ:316:LEU:HD12	2.38	0.44
45:UJ:329:GLN:O	45:UJ:333:VAL:HG23	2.18	0.44
44:UK:207:GLU:CD	44:UK:304:LYS:HG2	2.38	0.44
45:UL:42:LEU:HA	45:UL:45:GLU:HG3	2.00	0.44
45:UL:268:ILE:HG13	45:UL:300:MET:CE	2.47	0.44
45:UN:91:VAL:HG21	45:UN:116:VAL:CG1	2.38	0.44
45:UN:272:PRO:HG3	45:UN:289:LEU:CD2	2.47	0.44
44:VA:398:MET:SD	45:VB:345:ILE:HG13	2.58	0.44
45:VB:31:ASP:CG	45:VB:35:THR:H	2.19	0.44
44:VC:38:SER:HB3	44:VC:42:ILE:CD1	2.48	0.44
44:VC:122:ILE:O	44:VC:126:ALA:HB3	2.18	0.44
45:VD:181:GLU:HB2	45:VD:182:PRO:HD3	2.00	0.44
45:VD:224:ASP:O	45:VD:227:HIS:N	2.50	0.44
44:VE:306:ASP:HB3	44:VE:309:HIS:ND1	2.32	0.44
44:VG:288:VAL:C	44:VG:291:ILE:HG12	2.38	0.44
44:VG:407:TRP:HH2	45:VH:254:ALA:O	2.01	0.44
45:VH:15:GLN:O	45:VH:18:ALA:HB3	2.17	0.44
45:VJ:280:GLN:O	45:VJ:281:TYR:HD1	2.00	0.44
45:VJ:292:GLN:HG3	45:VJ:297:LYS:HE3	1.99	0.44
45:VJ:323:THR:CG2	45:VJ:324:LYS:N	2.81	0.44
44:VK:234:VAL:O	44:VK:238:LEU:N	2.39	0.44
45:VL:42:LEU:HG	45:VL:45:GLU:OE2	2.18	0.44
44:VM:74:VAL:HG23	44:VM:75:ILE:N	2.33	0.44
44:VM:270:SER:HB2	44:VM:377:MET:O	2.17	0.44
44:VM:271:SER:O	44:VM:377:MET:N	2.40	0.44
44:VM:276:ILE:HG23	44:VM:281:ALA:HB2	1.99	0.44
45:VN:130:LEU:HD21	45:VN:133:PHE:CE1	2.52	0.44
45:VN:192:LEU:HD12	45:VN:196:ALA:HB2	1.99	0.44
45:VN:299:MET:HG3	45:VN:305:PRO:HG3	2.00	0.44
44:WA:31:GLN:OE1	44:WA:35:GLN:O	2.35	0.44
44:WA:265:ILE:HG12	44:WA:432:TYR:CE1	2.52	0.44
44:WA:317:MET:O	44:WA:318:MET:HE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:144:GLY:N	46:WC:501:GTP:O3B	2.51	0.44
44:WC:177:VAL:HG22	45:WD:331:LEU:HD22	1.99	0.44
45:WD:192:LEU:O	45:WD:196:ALA:HB3	2.18	0.44
44:WE:346:TRP:HZ2	44:WE:435:VAL:CG2	2.31	0.44
45:WF:5:VAL:HG12	45:WF:62:ARG:HD3	1.98	0.44
44:WG:178:SER:OG	44:WG:179:THR:N	2.50	0.44
44:WG:254:GLU:O	44:WG:255:PHE:HD1	2.00	0.44
45:WJ:69:GLU:HB3	45:WJ:96:GLY:HA2	1.98	0.44
44:WK:16:VAL:CG2	44:WK:231:ILE:HG21	2.45	0.44
44:WK:189:LEU:HD21	44:WK:418:PHE:CD1	2.52	0.44
45:WL:22:GLU:HA	45:WL:81:PHE:CD2	2.53	0.44
44:WM:403:ALA:HB2	45:WN:260:PHE:CE1	2.52	0.44
45:WN:183:TYR:HA	45:WN:385:PHE:HE2	1.83	0.44
2:0A:104:ARG:HG2	35:7R:59:MET:H	1.82	0.44
5:0D:12:PRO:HG2	44:DC:280:LYS:HD3	1.99	0.44
8:0G:103:THR:HG22	45:JN:355:ASP:HB2	2.00	0.44
4:1C:71:LYS:HZ3	45:DL:56:GLY:HA2	1.81	0.44
20:1J:140:PHE:CE2	44:IE:369:ALA:HB1	2.53	0.44
25:1P:366:ALA:HB2	45:TB:360:GLY:HA2	1.99	0.44
23:2M:80:PHE:HB2	44:IG:39:ASP:O	2.16	0.44
22:3L:42:LYS:HD3	45:BB:320:ARG:NH1	2.22	0.44
24:3O:246:GLU:HG3	45:UN:276:ARG:HD2	1.98	0.44
15:3V:69:SER:OG	45:MB:336:LYS:HB3	2.16	0.44
15:3V:85:PHE:HE2	45:LB:410:GLU:HG3	1.82	0.44
15:3V:102:LYS:HE2	44:LA:414:GLU:HG2	2.00	0.44
35:4R:231:TYR:CE2	45:CF:216:LYS:HB3	2.53	0.44
38:5F:146:PHE:O	38:5F:149:ARG:HB2	2.18	0.44
38:5F:165:PRO:C	38:5F:166:ARG:HD2	2.37	0.44
35:5R:31:PHE:HD1	35:5R:40:GLU:HG2	1.83	0.44
35:5R:112:ARG:C	35:5R:113:ILE:HD12	2.38	0.44
35:5R:566:PHE:HA	35:5R:589:MET:HE1	1.99	0.44
36:5S:163:LYS:CA	36:5S:166:GLN:HG2	2.47	0.44
36:5S:227:LYS:HZ3	36:5S:228:TYR:HE1	1.64	0.44
41:6G:235:ILE:HD13	44:UE:114:ILE:HD11	1.98	0.44
41:6G:286:LEU:HD12	44:VA:176:GLN:CD	2.38	0.44
11:6Q:57:ASN:CB	11:6Q:158:ALA:HB2	2.47	0.44
11:6Q:107:ASN:CA	11:6Q:123:MET:HG2	2.48	0.44
35:6R:547:GLU:O	35:6R:550:VAL:HG12	2.16	0.44
35:7R:336:CYS:HB3	35:7R:349:ILE:CG2	2.48	0.44
35:7R:401:VAL:HG12	45:EB:277:GLY:N	2.33	0.44
42:8L:108:UNK:O	42:8L:111:UNK:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:8R:157:UNK:OH	45:PJ:276:ARG:NH2	2.50	0.44
45:AB:85:PHE:O	45:BB:281:TYR:OH	2.26	0.44
45:AB:251:ARG:O	45:AB:255:VAL:HG23	2.17	0.44
44:AC:55:GLU:OE2	44:AC:61:HIS:NE2	2.50	0.44
44:AC:183:GLU:CG	44:AC:184:PRO:HD3	2.47	0.44
44:AC:311:LYS:O	44:AC:382:THR:HG23	2.17	0.44
44:AC:311:LYS:N	44:AC:382:THR:OG1	2.50	0.44
45:AD:47:ILE:O	45:AD:47:ILE:HG13	2.18	0.44
45:AD:320:ARG:NH2	45:AD:357:PRO:HD3	2.32	0.44
44:AG:387:VAL:O	44:AG:391:LEU:HD13	2.17	0.44
45:AH:58:ARG:NH1	45:BH:280:GLN:OE1	2.46	0.44
45:AJ:152:ILE:HD12	45:AJ:164:MET:HE2	1.99	0.44
45:AJ:265:PHE:CE1	45:AJ:418:LEU:HD21	2.53	0.44
44:AK:20:CYS:HB2	44:AK:24:PHE:HE2	1.82	0.44
44:AK:209:ILE:HG21	44:AK:227:LEU:HD23	1.99	0.44
45:AL:20:PHE:O	45:AL:24:ILE:HG12	2.18	0.44
45:AL:20:PHE:HA	45:AL:23:VAL:HG12	1.98	0.44
45:AL:281:TYR:HE2	45:ML:87:PRO:HG2	1.83	0.44
44:AM:105:ARG:HB3	44:AM:110:ILE:HD13	2.00	0.44
45:AN:395:LEU:O	45:AN:399:THR:HG23	2.17	0.44
44:BA:221:ARG:NH2	45:BB:325:GLU:HB3	2.32	0.44
45:BD:148:GLY:O	45:BD:152:ILE:HG12	2.17	0.44
45:BH:174:LYS:HD2	45:BH:175:VAL:HG13	1.99	0.44
45:BH:178:THR:CB	45:BH:181:GLU:HG3	2.32	0.44
45:BH:209:ASP:OD1	45:BH:213:ARG:HD3	2.18	0.44
45:BJ:73:MET:O	45:BJ:76:VAL:HG12	2.17	0.44
45:BJ:193:VAL:HG21	45:BJ:418:LEU:HD12	1.99	0.44
44:BM:183:GLU:N	44:BM:184:PRO:CD	2.80	0.44
45:BN:396:HIS:O	45:BN:400:GLY:N	2.50	0.44
45:BN:405:GLU:HA	45:BN:408:PHE:HD2	1.83	0.44
45:CB:156:ARG:HD3	45:CB:195:ASN:O	2.17	0.44
45:CD:249:ASP:OD1	45:CD:252:LYS:HG3	2.17	0.44
45:CD:265:PHE:CE2	45:CD:378:PHE:HZ	2.35	0.44
45:CF:113:ILE:O	45:CF:116:VAL:HG12	2.16	0.44
45:CF:257:LEU:HD21	45:CF:368:VAL:CG1	2.47	0.44
45:CF:267:MET:HB2	45:CF:267:MET:HE2	1.77	0.44
45:CH:175:VAL:O	45:CH:175:VAL:HG23	2.17	0.44
44:CI:99:ALA:HB3	44:CI:145:THR:HG23	1.98	0.44
44:CK:348:PRO:HB2	45:CL:384:GLN:CG	2.46	0.44
44:CK:362:VAL:HG13	44:CK:362:VAL:O	2.17	0.44
44:CM:11:GLN:HG2	46:CM:501:GTP:PB	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:311:LYS:O	44:CM:381:SER:HA	2.18	0.44
44:CM:315:CYS:HA	44:CM:378:ILE:O	2.17	0.44
44:CM:348:PRO:HB2	45:CN:384:GLN:OE1	2.18	0.44
45:CN:231:ALA:HB1	45:CN:270:PHE:CE2	2.52	0.44
44:DA:191:THR:CA	44:DA:194:LEU:HG	2.40	0.44
44:DC:210:TYR:CE1	44:DC:227:LEU:HD11	2.53	0.44
44:DC:319:TYR:CE2	44:DC:375:VAL:HB	2.52	0.44
44:DE:141:VAL:HG21	44:DE:172:TYR:HE1	1.83	0.44
45:DF:272:PRO:HG2	45:DF:284:LEU:CD1	2.47	0.44
45:DF:347:ASN:ND2	44:DG:178:SER:HB3	2.24	0.44
45:DF:417:ASP:OD1	45:DF:421:GLU:HG3	2.18	0.44
44:DG:161:TYR:O	44:DG:164:LYS:HE2	2.17	0.44
45:DH:109:GLY:HA3	45:DH:147:MET:HB2	1.99	0.44
45:DH:131:GLN:OE1	45:DH:131:GLN:HA	2.18	0.44
45:DH:329:GLN:O	45:DH:333:VAL:N	2.37	0.44
44:DI:17:GLY:HA2	44:DI:20:CYS:SG	2.58	0.44
44:DI:267:PHE:O	44:DI:380:ASN:ND2	2.50	0.44
45:DJ:60:VAL:O	45:DJ:60:VAL:HG13	2.18	0.44
45:DJ:105:HIS:CD2	45:DJ:150:LEU:HB2	2.52	0.44
44:DK:200:VAL:HG13	44:DK:268:MET:HE3	2.00	0.44
45:DL:61:PRO:HD3	45:DL:84:LEU:HB3	2.00	0.44
45:DL:68:LEU:HD23	45:DL:98:GLY:H	1.82	0.44
45:DL:69:GLU:OE2	45:DL:72:THR:HG22	2.18	0.44
45:DN:64:ILE:CG2	45:DN:119:VAL:HG11	2.31	0.44
45:DN:72:THR:HA	45:DN:75:SER:OG	2.18	0.44
45:DN:145:SER:O	45:DN:149:THR:HG22	2.18	0.44
44:EA:339:ARG:O	44:EA:339:ARG:HG2	2.18	0.44
45:EB:174:LYS:HB3	45:EB:205:GLU:CD	2.37	0.44
45:EB:263:LEU:HG	45:EB:422:TYR:HE1	1.77	0.44
45:EB:427:ASP:O	45:EB:429:THR:HG23	2.17	0.44
45:ED:101:TRP:HB2	45:ED:184:ASN:HB3	2.00	0.44
45:ED:114:ASP:OD1	45:ED:115:SER:N	2.50	0.44
45:ED:263:LEU:HG	45:ED:422:TYR:CD1	2.53	0.44
45:ED:302:ALA:HB3	45:ED:377:MET:HE2	1.99	0.44
45:ED:304:ASP:O	45:ED:373:ALA:HB1	2.17	0.44
45:ED:313:ALA:CA	45:ED:369:GLY:HA2	2.40	0.44
44:EE:78:VAL:O	44:EE:78:VAL:HG12	2.17	0.44
44:EE:152:LEU:HD12	44:EE:155:GLU:OE1	2.18	0.44
44:EE:241:SER:OG	44:EE:250:VAL:O	2.35	0.44
45:EF:143:THR:HG23	48:EF:501:GDP:O1B	2.16	0.44
45:EF:246:LEU:HD13	44:EG:224:TYR:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:251:ARG:HB3	44:EG:100:ALA:HB1	2.00	0.44
45:EF:389:PHE:O	45:EF:392:LYS:HD3	2.18	0.44
44:EG:166:LYS:HE2	44:EG:198:THR:HA	1.99	0.44
44:EG:254:GLU:HG2	45:EH:98:GLY:HA2	1.98	0.44
44:EI:215:ARG:HH2	44:EI:300:ASN:HA	1.82	0.44
44:EI:236:SER:O	44:EI:240:ALA:HB2	2.18	0.44
44:EI:274:PRO:HG3	44:EI:286:LEU:HD12	1.99	0.44
44:EI:313:MET:SD	44:EI:380:ASN:HB3	2.58	0.44
45:EJ:86:ARG:HG3	45:EJ:88:ASP:H	1.83	0.44
44:EK:317:MET:O	44:EK:353:VAL:HA	2.16	0.44
45:EL:166:THR:HG1	45:EL:199:CYS:HB2	1.83	0.44
45:EL:208:TYR:CZ	45:EL:225:LEU:HD11	2.53	0.44
45:EL:259:PRO:HD2	45:EL:260:PHE:N	2.26	0.44
44:EM:105:ARG:O	44:EM:109:THR:HG22	2.17	0.44
44:EM:272:TYR:CE1	44:EM:376:CYS:HB2	2.52	0.44
44:EM:413:MET:HE3	44:EM:414:GLU:H	1.82	0.44
45:EN:117:LEU:C	45:EN:120:VAL:N	2.71	0.44
45:EN:253:LEU:HG	45:EN:257:LEU:HD13	1.99	0.44
45:FB:22:GLU:HA	45:FB:25:SER:CB	2.47	0.44
45:FB:135:ILE:HG13	45:FB:152:ILE:CD1	2.26	0.44
44:FC:88:HIS:H	44:FC:91:GLN:NE2	2.15	0.44
44:FC:348:PRO:HG2	45:FF:384:GLN:NE2	2.32	0.44
44:FC:403:ALA:O	44:FC:405:VAL:HG23	2.17	0.44
44:FC:424:ASP:O	44:FC:427:ALA:HB3	2.17	0.44
45:FH:376:GLU:HG3	45:FH:380:ARG:HH21	1.82	0.44
45:FH:395:LEU:O	45:FH:399:THR:HG22	2.18	0.44
44:FI:30:ILE:HD12	44:FI:53:PHE:CE2	2.53	0.44
44:FI:208:ALA:O	44:FI:211:ASP:N	2.50	0.44
45:FJ:320:ARG:O	45:FJ:320:ARG:HG2	2.16	0.44
44:FK:183:GLU:N	44:FK:184:PRO:CD	2.80	0.44
44:FK:437:ILE:HG13	44:FK:437:ILE:O	2.16	0.44
45:FL:114:ASP:OD1	45:FL:115:SER:N	2.50	0.44
45:FL:278:SER:O	45:FL:282:ARG:HD2	2.17	0.44
44:FM:121:ARG:NH1	44:FM:124:LYS:HE3	2.32	0.44
44:FM:275:ILE:HA	44:FM:368:LEU:CD1	2.47	0.44
45:FN:1:MET:H3	45:FN:46:ARG:HH12	1.64	0.44
45:FN:21:TRP:HZ2	45:FN:63:ALA:HB2	1.83	0.44
45:FN:64:ILE:HA	45:FN:89:ASN:HB3	2.00	0.44
45:FN:204:ASN:OD1	48:FN:501:GDP:N2	2.51	0.44
44:GA:183:GLU:HG2	44:GA:184:PRO:N	2.32	0.44
44:GA:260:VAL:HG11	44:GA:266:HIS:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:319:TYR:HD2	44:GA:375:VAL:HB	1.79	0.44
44:GC:27:GLU:OE2	44:GC:358:GLN:NE2	2.51	0.44
45:GD:86:ARG:HA	45:HD:281:TYR:CE2	2.53	0.44
45:GD:101:TRP:HD1	45:GD:145:SER:HG	1.61	0.44
44:GE:66:VAL:HG21	44:GE:122:ILE:HD11	1.97	0.44
44:GE:205:ASP:OD2	44:GE:304:LYS:N	2.28	0.44
44:GG:183:GLU:HG2	44:GG:184:PRO:N	2.32	0.44
44:GG:185:TYR:HE1	44:GG:398:MET:HB2	1.82	0.44
44:GG:270:SER:HB2	44:GG:377:MET:O	2.18	0.44
45:GH:1:MET:C	45:GH:2:ARG:HG2	2.38	0.44
45:GH:86:ARG:HA	45:HH:281:TYR:CE2	2.52	0.44
45:GJ:4:ILE:HD11	45:GJ:50:TYR:CZ	2.51	0.44
45:GJ:101:TRP:HE1	45:GJ:146:GLY:HA2	1.83	0.44
45:GJ:317:PHE:O	45:GJ:318:ARG:HD3	2.18	0.44
44:GK:214:ARG:HG3	45:GL:324:LYS:HE3	1.98	0.44
45:GL:385:PHE:HE2	45:GL:412:GLU:HB2	1.83	0.44
45:GN:83:GLN:OE1	45:GN:83:GLN:HA	2.17	0.44
44:HA:1:MET:CE	45:HD:94:GLN:HG3	2.47	0.44
44:HA:203:MET:HG3	44:HA:269:LEU:HB3	2.00	0.44
44:HA:314:ALA:HA	44:HA:350:GLY:HA3	1.99	0.44
44:HA:338:LYS:CG	44:HA:341:ILE:HD12	2.33	0.44
45:HB:372:THR:HA	45:HB:422:TYR:CE2	2.53	0.44
44:HC:145:THR:HG23	44:HC:146:GLY:N	2.32	0.44
44:HC:250:VAL:HG12	44:HC:255:PHE:CE1	2.52	0.44
45:HD:28:HIS:NE2	45:HD:241:ARG:HD2	2.32	0.44
44:HE:145:THR:HG23	44:HE:146:GLY:N	2.32	0.44
44:HE:269:LEU:HD12	44:HE:269:LEU:O	2.17	0.44
44:HE:393:HIS:O	44:HE:396:ASP:HB2	2.16	0.44
45:HH:36:TYR:CD2	45:HH:44:LEU:HD11	2.53	0.44
45:HH:240:LEU:HD12	45:HH:240:LEU:O	2.17	0.44
45:HJ:99:ASN:C	45:HJ:142:GLY:HA3	2.37	0.44
45:HL:193:VAL:O	45:HL:264:HIS:NE2	2.46	0.44
45:HL:304:ASP:HB3	45:HL:307:HIS:HB2	1.99	0.44
45:HL:380:ARG:NH1	45:HL:381:VAL:HG22	2.32	0.44
44:HM:239:THR:O	44:HM:243:ARG:HG2	2.18	0.44
45:HN:141:GLY:HA3	48:HN:501:GDP:O3A	2.18	0.44
44:IA:21:TRP:HZ3	44:IA:52:PHE:HD1	1.66	0.44
44:IA:176:GLN:HG3	45:IB:331:LEU:HD21	1.99	0.44
44:IA:212:ILE:HG21	44:IA:275:ILE:HD12	2.00	0.44
44:IA:268:MET:HE3	44:IA:378:ILE:HA	1.99	0.44
44:IC:288:VAL:HG11	44:IC:327:ASP:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:267:MET:HG2	45:ID:369:GLY:O	2.18	0.44
45:ID:318:ARG:HD2	45:ID:357:PRO:HA	1.99	0.44
45:ID:342:VAL:HG22	45:ID:344:TRP:CD1	2.52	0.44
44:IE:70:LEU:HD23	44:IE:145:THR:OG1	2.18	0.44
44:IE:175:PRO:HG2	44:IE:304:LYS:CG	2.48	0.44
44:IE:278:ALA:H	44:IE:369:ALA:HB2	1.82	0.44
45:IF:49:VAL:CG2	45:IF:240:LEU:HD22	2.48	0.44
45:IF:164:MET:SD	45:IF:196:ALA:HA	2.57	0.44
45:IF:420:SER:O	45:IF:423:GLN:HG3	2.17	0.44
44:IG:7:ILE:HD13	44:IG:66:VAL:HG12	1.99	0.44
44:IG:14:ILE:HD13	44:IG:75:ILE:HD11	1.99	0.44
44:IG:204:LEU:HD22	44:IG:231:ILE:CD1	2.48	0.44
45:IH:391:ARG:HA	45:IH:391:ARG:HD2	1.81	0.44
45:IJ:11:GLN:HA	45:IJ:14:ASN:HD22	1.81	0.44
44:IK:115:VAL:O	44:IK:118:CYS:N	2.50	0.44
45:IL:141:GLY:HA3	48:IL:501:GDP:PA	2.58	0.44
44:IM:265:ILE:HG23	44:IM:432:TYR:CE1	2.53	0.44
45:IN:251:ARG:O	45:IN:254:ALA:HB3	2.17	0.44
44:JA:169:PHE:HD1	44:JA:202:VAL:HB	1.82	0.44
44:JA:188:ILE:CD1	44:JA:425:LEU:HD22	2.47	0.44
44:JA:254:GLU:O	44:JA:255:PHE:CD1	2.70	0.44
44:JA:271:SER:HB2	44:JA:377:MET:CG	2.47	0.44
45:JB:158:GLU:C	45:JB:159:TYR:HD1	2.21	0.44
45:JB:204:ASN:HA	45:JB:207:LEU:HD12	2.00	0.44
44:JE:86:LEU:HD23	44:JE:87:PHE:N	2.33	0.44
44:JE:297:GLU:HB3	44:JE:300:ASN:OD1	2.17	0.44
45:JF:169:VAL:HA	45:JF:202:ILE:O	2.17	0.44
45:JF:244:GLY:HA2	45:JF:355:ASP:CG	2.38	0.44
44:JG:26:LEU:HD13	44:JG:363:VAL:HG22	2.00	0.44
45:JH:173:PRO:HD2	45:JH:380:ARG:NE	2.32	0.44
44:JI:135:PHE:O	44:JI:136:LEU:HD23	2.17	0.44
44:JI:145:THR:HG22	46:JI:501:GTP:O3G	2.17	0.44
44:JI:252:ILE:HG13	44:JI:253:THR:N	2.33	0.44
45:JJ:123:GLU:OE2	45:JJ:123:GLU:HA	2.17	0.44
45:JJ:173:PRO:HG2	45:JJ:380:ARG:NH1	2.32	0.44
44:JK:12:GLY:HA2	46:JK:501:GTP:C8	2.52	0.44
44:JK:118:CYS:O	44:JK:122:ILE:HG12	2.17	0.44
45:JL:272:PRO:HB3	45:JL:289:LEU:CD2	2.47	0.44
45:JL:425:TYR:HA	45:JL:428:ALA:HB3	1.98	0.44
45:JN:86:ARG:HA	45:KN:281:TYR:CG	2.53	0.44
44:KA:70:LEU:HD11	44:KA:149:LEU:CD2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KB:5:VAL:CA	45:KB:62:ARG:HH11	2.30	0.44
45:KB:193:VAL:HA	45:KB:264:HIS:HE1	1.75	0.44
44:KE:143:GLY:HA3	46:KE:501:GTP:O2A	2.17	0.44
44:KE:268:MET:HB2	44:KE:380:ASN:CA	2.43	0.44
45:KF:2:ARG:CA	45:KF:131:GLN:HB2	2.48	0.44
45:KF:173:PRO:HB3	45:KF:384:GLN:NE2	2.32	0.44
44:KG:88:HIS:ND1	44:KG:89:PRO:HD2	2.32	0.44
44:KG:107:HIS:O	44:KG:107:HIS:ND1	2.51	0.44
45:KH:267:MET:HB2	45:KH:301:CYS:SG	2.56	0.44
45:KH:269:GLY:HA2	45:KH:300:MET:CE	2.47	0.44
44:KI:88:HIS:CE1	44:KI:90:GLU:HG2	2.52	0.44
44:KI:145:THR:HG21	46:KJ:501:GTP:O3G	2.18	0.44
44:KK:7:ILE:CD1	44:KK:122:ILE:HD12	2.47	0.44
45:KL:102:ALA:CB	45:KL:401:GLU:HG3	2.48	0.44
45:KL:130:LEU:HD21	45:KL:133:PHE:CE1	2.53	0.44
44:KM:386:GLU:HA	44:KM:389:SER:OG	2.17	0.44
45:KN:36:TYR:HE2	45:KN:44:LEU:HB2	1.83	0.44
44:LA:41:THR:HG22	44:LA:43:GLY:H	1.82	0.44
44:LA:99:ALA:HB3	46:LB:501:GTP:O2G	2.17	0.44
44:LA:212:ILE:HG23	44:LA:216:ASN:OD1	2.17	0.44
44:LA:264:ARG:HG2	44:LA:264:ARG:NH1	2.33	0.44
45:LB:257:LEU:HD21	45:LB:368:VAL:HG12	1.99	0.44
45:LB:363:MET:HA	45:LB:363:MET:HE2	1.99	0.44
44:LC:155:GLU:HG3	44:LC:197:HIS:CE1	2.52	0.44
44:LC:160:ASP:C	44:LC:161:TYR:HD2	2.21	0.44
44:LC:288:VAL:HA	44:LC:291:ILE:HG12	1.99	0.44
45:LD:8:GLN:CG	45:LD:14:ASN:HA	2.39	0.44
45:LD:305:PRO:HA	45:LD:373:ALA:CB	2.47	0.44
45:LD:412:GLU:O	45:LD:416:ASN:HB2	2.17	0.44
45:LF:2:ARG:HB2	45:LF:131:GLN:NE2	2.24	0.44
45:LF:68:LEU:HD23	45:LF:68:LEU:HA	1.79	0.44
45:LF:286:VAL:HG22	45:LF:363:MET:HE3	1.98	0.44
45:LF:320:ARG:HG3	45:LF:320:ARG:O	2.17	0.44
44:LG:189:LEU:HD23	44:LG:189:LEU:C	2.37	0.44
44:LI:66:VAL:HG13	44:LI:66:VAL:O	2.17	0.44
45:LJ:36:TYR:CE1	45:LJ:44:LEU:HD21	2.53	0.44
45:LJ:264:HIS:O	45:LJ:265:PHE:HD1	2.00	0.44
45:LJ:304:ASP:OD2	45:LJ:306:ARG:NE	2.51	0.44
45:LL:372:THR:HA	45:LL:422:TYR:HE2	1.83	0.44
44:LM:1:MET:HE2	44:LM:131:GLY:HA3	1.98	0.44
44:LM:56:THR:HG23	44:LM:58:ALA:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LM:167:LEU:HD12	44:LM:200:VAL:O	2.18	0.44
44:LM:189:LEU:O	44:LM:192:HIS:HB3	2.18	0.44
44:LM:270:SER:HB3	44:LM:378:ILE:HD13	2.00	0.44
44:MA:145:THR:HG22	46:MA:501:GTP:O3G	2.17	0.44
45:MB:101:TRP:CD1	45:MB:105:HIS:CB	2.98	0.44
45:MB:127:CYS:SG	45:MB:130:LEU:HB2	2.57	0.44
45:MB:213:ARG:HH12	45:MB:297:LYS:CD	2.30	0.44
45:MD:255:VAL:HG13	45:MD:256:ASN:OD1	2.18	0.44
45:MD:267:MET:CE	45:MD:299:MET:HB3	2.46	0.44
45:MF:5:VAL:HG22	45:MF:6:HIS:N	2.33	0.44
45:MF:154:LYS:HB2	45:MF:154:LYS:HE2	1.81	0.44
45:MF:301:CYS:HB3	45:MF:377:MET:HE2	1.99	0.44
45:MH:2:ARG:HG3	45:MH:240:LEU:HD11	1.99	0.44
45:MH:334:GLN:NE2	45:MH:347:ASN:HA	2.32	0.44
44:MI:19:ALA:HA	44:MI:22:GLU:OE1	2.18	0.44
45:MJ:66:MET:SD	45:MJ:151:LEU:HD22	2.58	0.44
45:ML:110:ALA:O	45:ML:113:ILE:HG22	2.18	0.44
45:ML:136:THR:HG22	45:ML:167:PHE:HB2	1.99	0.44
45:ML:372:THR:HA	45:ML:422:TYR:HE2	1.83	0.44
45:MN:107:THR:HG21	45:MN:401:GLU:OE1	2.17	0.44
44:NC:204:LEU:HD11	44:NC:302:MET:SD	2.57	0.44
45:ND:207:LEU:HD21	45:ND:300:MET:SD	2.58	0.44
44:NE:11:GLN:HB3	46:NE:501:GTP:O2A	2.17	0.44
44:NE:11:GLN:CG	44:NE:74:VAL:HG11	2.39	0.44
44:NE:250:VAL:HG11	44:NE:352:LYS:HZ1	1.82	0.44
44:NG:172:TYR:HE2	44:NG:203:MET:CE	2.30	0.44
45:NH:170:VAL:HG21	45:NH:377:MET:HE1	2.00	0.44
45:NH:318:ARG:CB	45:NH:354:CYS:HB3	2.48	0.44
44:NI:34:GLY:O	44:NI:60:LYS:HA	2.18	0.44
44:NI:223:THR:HG22	44:NI:224:TYR:N	2.32	0.44
45:NJ:317:PHE:CD1	45:NJ:317:PHE:N	2.84	0.44
44:NK:19:ALA:HA	44:NK:22:GLU:CD	2.38	0.44
44:NM:145:THR:O	44:NM:149:LEU:HB2	2.17	0.44
44:NM:227:LEU:HD23	46:NM:501:GTP:HN21	1.83	0.44
44:NM:258:ASN:C	44:NM:259:LEU:HD23	2.38	0.44
45:NN:233:MET:HB2	45:NN:233:MET:HE2	1.81	0.44
45:NN:251:ARG:O	45:NN:255:VAL:HG23	2.18	0.44
45:NN:259:PRO:O	45:NN:260:PHE:HD2	2.00	0.44
44:OA:64:ARG:NH1	44:OA:129:CYS:SG	2.91	0.44
45:OB:49:VAL:HG21	45:OB:240:LEU:CD2	2.47	0.44
45:OB:150:LEU:HA	45:OB:153:SER:CB	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:201:VAL:HG22	45:OB:266:PHE:C	2.38	0.44
45:OB:201:VAL:HG23	45:OB:267:MET:HB2	1.99	0.44
45:OB:206:ALA:CB	45:OB:301:CYS:HA	2.46	0.44
45:OD:184:ASN:OD1	45:OD:185:ALA:N	2.50	0.44
44:OE:1:MET:HG3	45:OH:94:GLN:NE2	2.33	0.44
44:OE:141:VAL:O	44:OE:141:VAL:HG22	2.17	0.44
44:OG:145:THR:HG23	46:OG:501:GTP:O1B	2.18	0.44
44:OG:171:ILE:O	44:OG:171:ILE:HG22	2.16	0.44
44:OG:285:GLN:CG	44:OG:287:SER:HB3	2.47	0.44
44:OG:319:TYR:CD2	44:OG:328:VAL:HG22	2.52	0.44
44:OG:406:HIS:CE1	44:OG:407:TRP:HD1	2.35	0.44
45:OH:269:GLY:O	45:OH:366:THR:HG23	2.17	0.44
44:OK:21:TRP:CZ3	44:OK:24:PHE:HD2	2.35	0.44
44:OK:107:HIS:ND1	44:OK:108:TYR:CE1	2.85	0.44
44:OK:210:TYR:CD1	44:OK:227:LEU:HD21	2.52	0.44
44:OM:172:TYR:HB2	44:OM:203:MET:CE	2.47	0.44
45:ON:132:GLY:HA2	45:ON:163:ILE:H	1.82	0.44
44:PA:9:VAL:HG21	44:PA:149:LEU:HB3	1.99	0.44
44:PA:32:PRO:HG3	44:PA:83:TYR:HE1	1.82	0.44
44:PA:121:ARG:NH1	44:PA:124:LYS:HD2	2.30	0.44
44:PA:123:ARG:O	44:PA:126:ALA:N	2.51	0.44
44:PA:207:GLU:HA	44:PA:210:TYR:CG	2.52	0.44
45:PB:72:THR:HG23	45:PB:73:MET:N	2.33	0.44
45:PB:203:ASP:O	45:PB:207:LEU:HG	2.18	0.44
44:PC:121:ARG:O	44:PC:125:LEU:HG	2.18	0.44
45:PD:11:GLN:HA	45:PD:72:THR:CG2	2.47	0.44
44:PE:265:ILE:HG12	44:PE:432:TYR:CE1	2.52	0.44
45:PF:2:ARG:HA	45:PF:131:GLN:HB2	1.99	0.44
45:PF:143:THR:CG2	45:PF:144:GLY:N	2.80	0.44
45:PF:303:ALA:HB2	45:PF:377:MET:CE	2.47	0.44
44:PG:73:THR:OG1	45:PH:2:ARG:NH2	2.51	0.44
44:PG:256:GLN:HA	44:PG:259:LEU:CD2	2.45	0.44
44:PI:195:LEU:HD21	44:PI:264:ARG:CZ	2.48	0.44
45:PJ:167:PHE:HA	45:PJ:200:MET:HB2	1.99	0.44
45:PJ:242:PHE:HD2	45:PJ:356:ILE:CG1	2.30	0.44
44:PK:88:HIS:HE1	44:PK:90:GLU:HG2	1.75	0.44
44:PK:175:PRO:HG2	44:PK:304:LYS:HB3	1.98	0.44
45:PL:36:TYR:CD2	45:PL:44:LEU:HD11	2.53	0.44
44:PM:154:LEU:O	44:PM:158:SER:HB2	2.18	0.44
45:PN:42:LEU:HB3	45:PN:242:PHE:HE1	1.83	0.44
45:PN:306:ARG:HA	45:PN:340:TYR:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:1:MET:CE	45:QB:94:GLN:HA	2.47	0.44
44:QC:389:SER:O	44:QC:393:HIS:HB2	2.17	0.44
44:QC:395:PHE:HD1	44:QC:399:TYR:HB2	1.81	0.44
45:QD:372:THR:HA	45:QD:422:TYR:HE2	1.83	0.44
44:QE:247:ALA:HB2	44:QE:357:TYR:OH	2.18	0.44
44:QE:333:ALA:HB2	45:QF:174:LYS:CE	2.48	0.44
45:QF:283:ALA:O	45:QF:288:GLU:HG3	2.16	0.44
45:QF:377:MET:O	45:QF:381:VAL:HG23	2.17	0.44
45:QH:207:LEU:HD13	45:QH:225:LEU:HB3	2.00	0.44
44:QI:258:ASN:HD22	44:QI:352:LYS:CD	2.24	0.44
45:QJ:182:PRO:O	45:QJ:186:THR:OG1	2.25	0.44
45:QJ:347:ASN:O	44:QK:181:VAL:HG12	2.17	0.44
44:QK:247:ALA:HB3	44:QK:355:ILE:HB	1.99	0.44
45:QL:326:VAL:O	45:QL:330:MET:HG2	2.17	0.44
44:QM:115:VAL:O	44:QM:119:LEU:HD23	2.18	0.44
44:QM:201:ALA:HB3	44:QM:267:PHE:HA	2.00	0.44
45:QN:167:PHE:CE2	45:QN:233:MET:HE1	2.52	0.44
45:QN:313:ALA:HB3	45:QN:349:ILE:HG23	1.98	0.44
44:RA:242:LEU:HD11	44:RA:252:ILE:CD1	2.36	0.44
45:RB:403:MET:HB2	45:RB:407:GLU:OE2	2.17	0.44
44:RC:183:GLU:HG2	44:RC:184:PRO:N	2.33	0.44
44:RC:191:THR:O	44:RC:194:LEU:HG	2.17	0.44
45:RD:253:LEU:O	45:RD:257:LEU:HD13	2.18	0.44
45:RF:132:GLY:HA3	45:RF:163:ILE:HG12	1.99	0.44
45:RF:132:GLY:O	45:RF:133:PHE:CD1	2.70	0.44
44:RG:105:ARG:O	44:RG:110:ILE:HD12	2.17	0.44
44:RG:257:THR:CG2	45:RH:397:TRP:CZ2	3.01	0.44
44:RG:317:MET:HE2	44:RG:377:MET:CB	2.47	0.44
45:RH:7:ILE:CD1	45:RH:120:VAL:HG23	2.46	0.44
45:RH:11:GLN:HG3	45:RH:72:THR:CG2	2.38	0.44
45:RH:144:GLY:N	48:RH:501:GDP:O1B	2.50	0.44
45:RH:226:ASN:O	45:RH:229:VAL:N	2.51	0.44
45:RH:267:MET:HB2	45:RH:301:CYS:CB	2.41	0.44
44:RI:16:VAL:HB	44:RI:228:ASN:ND2	2.32	0.44
45:RJ:66:MET:HE1	45:RJ:147:MET:HG3	1.98	0.44
44:RK:138:PHE:HE2	44:RK:235:ILE:HD12	1.82	0.44
44:RK:242:LEU:HD11	44:RK:252:ILE:HG13	1.99	0.44
44:RK:346:TRP:CG	45:RL:391:ARG:HG3	2.52	0.44
45:RL:238:CYS:SG	45:RL:239:CYS:N	2.91	0.44
45:RL:334:GLN:HG3	45:RL:341:PHE:CE2	2.52	0.44
45:RN:117:LEU:HD11	45:RN:154:LYS:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RN:215:LEU:CD2	45:RN:273:LEU:HB3	2.44	0.44
45:RN:309:ARG:HA	45:RN:340:TYR:O	2.17	0.44
45:RN:325:GLU:O	45:RN:328:GLU:HG2	2.17	0.44
44:SA:16:VAL:HG11	44:SA:138:PHE:C	2.38	0.44
44:SA:273:ALA:HA	44:SA:274:PRO:HA	1.79	0.44
44:SA:326:LYS:HD3	45:SB:212:PHE:HZ	1.82	0.44
45:SB:53:GLU:OE1	45:SB:59:TYR:HE1	2.01	0.44
45:SB:173:PRO:HA	45:SB:380:ARG:HH11	1.81	0.44
44:SC:105:ARG:HB3	44:SC:411:GLU:HB3	1.98	0.44
45:SD:86:ARG:HH21	45:SD:87:PRO:HD2	1.81	0.44
44:SE:166:LYS:HE2	44:SE:166:LYS:HB2	1.77	0.44
44:SE:284:GLU:O	44:SE:286:LEU:HD23	2.18	0.44
45:SF:173:PRO:CD	45:SF:380:ARG:HH11	2.30	0.44
45:SF:187:LEU:HD11	45:SF:408:PHE:CE1	2.53	0.44
45:SF:198:GLU:OE2	45:SF:254:ALA:HB2	2.17	0.44
45:SF:302:ALA:HB1	45:SF:380:ARG:HH12	1.82	0.44
45:SF:324:LYS:CE	44:SG:210:TYR:HB3	2.47	0.44
44:SG:250:VAL:O	44:SG:250:VAL:HG23	2.16	0.44
44:SI:261:PRO:O	44:SI:262:TYR:HD1	2.01	0.44
44:SI:332:ILE:HD12	44:SI:351:PHE:CD2	2.51	0.44
44:SK:27:GLU:CG	44:SK:361:THR:HG21	2.48	0.44
45:SL:11:GLN:HA	45:SL:14:ASN:ND2	2.28	0.44
45:SL:258:ILE:HB	44:SM:407:TRP:CH2	2.52	0.44
45:SL:262:ARG:HH22	45:SL:418:LEU:CA	2.31	0.44
45:SN:11:GLN:HA	45:SN:72:THR:OG1	2.17	0.44
45:SN:73:MET:HE2	45:SN:92:PHE:HB3	1.98	0.44
45:SN:286:VAL:O	45:SN:290:THR:HG22	2.17	0.44
44:TA:156:ARG:O	44:TA:160:ASP:HB2	2.16	0.44
45:TB:113:ILE:HD13	45:TB:150:LEU:HD22	1.99	0.44
45:TD:4:ILE:HD11	45:TD:134:GLN:OE1	2.17	0.44
45:TD:113:ILE:CD1	45:TD:154:LYS:HD2	2.47	0.44
44:TE:88:HIS:O	44:TE:91:GLN:HG2	2.17	0.44
44:TE:344:VAL:HG11	44:TE:346:TRP:CZ2	2.53	0.44
45:TF:2:ARG:HG3	45:TF:240:LEU:HD21	1.99	0.44
45:TF:41:ASP:O	45:TF:45:GLU:HG3	2.18	0.44
45:TF:46:ARG:HB3	45:TF:49:VAL:HG21	1.98	0.44
45:TF:47:ILE:CG1	45:TF:51:TYR:HB2	2.43	0.44
45:TF:383:GLU:O	45:TF:386:THR:HG22	2.17	0.44
44:TG:315:CYS:CB	44:TG:379:SER:HB3	2.47	0.44
45:TH:417:ASP:OD1	45:TH:421:GLU:HG3	2.17	0.44
44:TI:251:ASP:CB	44:TI:253:THR:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:7:ILE:HD11	45:TJ:120:VAL:HG22	1.98	0.44
45:TJ:170:VAL:HG23	45:TJ:377:MET:HE1	1.99	0.44
44:TK:14:ILE:HD13	44:TK:75:ILE:CD1	2.46	0.44
44:TK:174:SER:CB	44:TK:207:GLU:HB2	2.48	0.44
44:TK:276:ILE:HD13	44:TK:281:ALA:HA	1.98	0.44
44:TK:328:VAL:HG12	44:TK:332:ILE:HD11	2.00	0.44
45:TL:11:GLN:HB3	48:TL:501:GDP:O1A	2.17	0.44
45:TL:172:SER:OG	45:TL:205:GLU:HB2	2.18	0.44
44:TM:70:LEU:CD1	44:TM:110:ILE:HG21	2.45	0.44
44:TM:99:ALA:HB1	44:TM:105:ARG:CB	2.48	0.44
44:TM:287:SER:O	44:TM:290:GLU:HG2	2.17	0.44
44:UA:84:ARG:NE	44:UA:85:GLN:HE21	2.15	0.44
44:UA:147:SER:HB2	44:UA:190:SER:HB3	2.00	0.44
44:UA:348:PRO:HD2	45:UB:388:MET:CE	2.47	0.44
45:UB:68:LEU:HD12	45:UB:93:GLY:HA3	1.99	0.44
45:UB:347:ASN:ND2	44:UC:176:GLN:O	2.51	0.44
44:UC:101:ASN:CB	44:UC:182:VAL:HG11	2.47	0.44
44:UC:179:THR:HG23	44:UC:180:ALA:N	2.32	0.44
44:UC:326:LYS:HG2	45:UD:212:PHE:HE2	1.83	0.44
45:UD:200:MET:HE3	45:UD:202:ILE:HD11	1.98	0.44
44:UG:23:LEU:CD2	44:UG:236:SER:HB2	2.48	0.44
44:UG:387:VAL:CA	44:UG:390:ARG:HH11	2.31	0.44
45:UH:325:GLU:HB2	45:UH:328:GLU:OE2	2.17	0.44
45:UH:415:MET:HE3	45:UH:419:VAL:HG23	2.00	0.44
44:UI:12:GLY:O	44:UI:16:VAL:HG13	2.18	0.44
44:UI:267:PHE:CE2	44:UI:388:PHE:HZ	2.35	0.44
44:UK:11:GLN:H	46:UK:501:GTP:PB	2.41	0.44
44:UK:242:LEU:HD11	44:UK:252:ILE:HG13	1.99	0.44
44:UK:251:ASP:OD2	44:UK:253:THR:HG22	2.18	0.44
45:UL:99:ASN:O	45:UL:142:GLY:HA3	2.17	0.44
45:UL:170:VAL:HG22	45:UL:171:PRO:CD	2.45	0.44
45:UL:302:ALA:HB3	45:UL:377:MET:CE	2.33	0.44
45:UL:302:ALA:H	45:UL:377:MET:HE3	1.82	0.44
44:UM:66:VAL:HG13	44:UM:66:VAL:O	2.18	0.44
44:UM:383:ALA:O	44:UM:386:GLU:HG2	2.17	0.44
44:UM:437:ILE:HG13	44:UM:437:ILE:O	2.18	0.44
45:UN:67:ASP:OD1	45:UN:143:THR:HG21	2.17	0.44
44:VA:209:ILE:HG21	44:VA:227:LEU:HB3	1.99	0.44
45:VB:323:THR:O	45:VB:327:ASP:N	2.44	0.44
45:VB:421:GLU:HA	45:VB:424:GLN:HE21	1.80	0.44
44:VE:340:THR:O	44:VE:341:ILE:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:149:THR:HG1	45:VF:191:GLN:HB3	1.83	0.44
45:VF:192:LEU:HG	45:VF:196:ALA:HB2	1.99	0.44
44:VG:3:GLU:O	44:VG:132:LEU:HA	2.17	0.44
45:VH:36:TYR:CE1	45:VH:44:LEU:HD11	2.52	0.44
44:VI:21:TRP:CD1	44:VI:67:PHE:HZ	2.35	0.44
44:VI:326:LYS:HE2	45:VL:219:THR:HG22	2.00	0.44
45:VJ:6:HIS:H	45:VJ:62:ARG:HH12	1.66	0.44
45:VJ:396:HIS:ND1	45:VJ:399:THR:OG1	2.49	0.44
44:VM:87:PHE:CB	44:VM:92:LEU:HD11	2.38	0.44
44:VM:185:TYR:HE1	44:VM:398:MET:CE	2.31	0.44
45:VN:143:THR:HG22	48:VN:501:GDP:PB	2.57	0.44
45:VN:374:ILE:HD12	45:VN:374:ILE:N	2.33	0.44
45:WB:81:PHE:CB	45:WB:84:LEU:HD13	2.37	0.44
45:WB:318:ARG:HB3	45:WB:357:PRO:HA	2.00	0.44
44:WC:323:VAL:HG13	44:WC:323:VAL:O	2.17	0.44
45:WD:68:LEU:HB2	45:WD:143:THR:OG1	2.17	0.44
44:WE:208:ALA:HB2	44:WE:304:LYS:N	2.33	0.44
44:WE:238:LEU:CD1	44:WE:378:ILE:HG13	2.47	0.44
44:WE:261:PRO:HB2	44:WE:262:TYR:CD2	2.53	0.44
44:WE:290:GLU:O	44:WE:293:ASN:N	2.50	0.44
44:WI:55:GLU:HG3	44:WI:57:GLY:H	1.82	0.44
44:WK:171:ILE:HG13	44:WK:204:LEU:HB2	1.99	0.44
44:WK:312:TYR:O	44:WK:344:VAL:HG13	2.18	0.44
44:WM:335:ILE:O	44:WM:338:LYS:N	2.50	0.44
45:WN:257:LEU:HD11	45:WN:314:SER:HB3	1.99	0.44
45:WN:403:MET:HG3	45:WN:407:GLU:OE2	2.17	0.44
2:0A:104:ARG:HH12	35:7R:61:THR:CG2	2.20	0.44
4:0C:80:ARG:NH1	45:EH:359:LYS:HG3	2.24	0.44
5:0D:12:PRO:CG	44:DC:280:LYS:HD3	2.47	0.44
15:0V:98:LEU:HD12	44:LM:405:VAL:CG2	2.47	0.44
8:1G:170:LYS:HE3	45:KD:92:PHE:HZ	1.75	0.44
22:1L:150:ARG:HH12	45:CH:356:ILE:CD1	2.30	0.44
22:1L:153:LEU:CD1	45:CH:362:LYS:HZ1	2.27	0.44
16:1X:129:ILE:HG23	45:MD:280:GLN:HG2	1.99	0.44
32:2I:134:LYS:HB3	45:GD:329:GLN:HE21	1.71	0.44
21:2K:279:ARG:HH22	44:GK:365:GLY:HA3	1.82	0.44
24:2O:149:TYR:HB2	44:VK:282:TYR:HE2	1.81	0.44
25:2P:407:GLN:CB	45:SL:56:GLY:HA2	2.48	0.44
11:2Q:53:ASN:OD1	44:AE:399:TYR:HD2	2.00	0.44
11:2Q:115:LYS:NZ	44:AE:264:ARG:HD3	2.32	0.44
26:2R:119:ARG:NH2	45:BJ:276:ARG:NE	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:2R:244:ARG:NH2	44:BG:55:GLU:HB3	2.32	0.44
12:2S:147:VAL:H	44:WG:123:ARG:NH2	2.13	0.44
28:3C:228:ALA:HB1	45:JB:53:GLU:OE2	2.17	0.44
26:3R:336:PHE:O	45:CL:32:PRO:HG2	2.17	0.44
13:3T:229:THR:HG21	44:MK:264:ARG:CD	2.47	0.44
34:4F:7:GLY:N	44:GI:84:ARG:HH21	2.15	0.44
34:4F:207:THR:H	44:HM:79:ARG:NH2	2.14	0.44
35:4R:500:VAL:HG21	45:EF:32:PRO:CD	2.38	0.44
37:5D:42:SER:OG	44:KK:262:TYR:CE2	2.70	0.44
37:5D:46:ILE:HG22	44:KK:434:GLU:HG2	1.99	0.44
38:5F:142:TYR:HB2	45:OH:279:GLN:HB3	2.00	0.44
39:5I:110:LYS:NZ	45:JD:409:THR:HG23	2.33	0.44
11:5Q:83:LEU:O	11:5Q:84:LYS:HB2	2.18	0.44
11:5Q:95:ASP:HB2	11:5Q:99:VAL:HG22	1.99	0.44
41:6G:122:TYR:HD1	45:VJ:213:ARG:HD2	1.82	0.44
11:6Q:36:ARG:C	11:6Q:37:ILE:HD12	2.38	0.44
11:6Q:79:ILE:O	11:6Q:80:ILE:HG13	2.17	0.44
11:6Q:81:LYS:CD	11:6Q:161:ARG:HH21	2.25	0.44
35:6R:118:LEU:HB2	35:6R:129:VAL:HG22	1.99	0.44
35:6R:323:LEU:HD11	45:CN:276:ARG:HG3	1.99	0.44
35:7R:465:ILE:HA	45:FB:277:GLY:N	2.32	0.44
35:7R:481:ASN:O	35:7R:483:LYS:HG3	2.17	0.44
44:AC:102:ASN:OD1	44:AC:104:ALA:HB3	2.17	0.44
45:AD:42:LEU:HA	45:AD:45:GLU:CD	2.38	0.44
45:AD:117:LEU:CA	45:AD:120:VAL:HG12	2.48	0.44
45:AD:132:GLY:HA3	45:AD:163:ILE:CG2	2.47	0.44
44:AE:177:VAL:HG22	45:AF:331:LEU:HD22	1.98	0.44
45:AH:143:THR:HG23	48:AH:501:GDP:O1B	2.18	0.44
44:AI:8:HIS:NE2	44:AI:17:GLY:HA3	2.33	0.44
44:AI:102:ASN:CG	44:AI:105:ARG:HG3	2.38	0.44
44:AI:312:TYR:O	44:AI:344:VAL:HG23	2.18	0.44
44:AI:319:TYR:HE1	44:AI:375:VAL:HG13	1.82	0.44
44:AK:217:LEU:CD2	44:AK:275:ILE:HG22	2.41	0.44
44:AK:292:THR:O	44:AK:295:ALA:HB3	2.18	0.44
45:AL:203:ASP:OD2	45:AL:301:CYS:HA	2.18	0.44
45:AL:238:CYS:HB2	45:AL:318:ARG:HH12	1.81	0.44
44:AM:10:GLY:O	44:AM:14:ILE:HG13	2.17	0.44
44:AM:73:THR:HG23	44:AM:74:VAL:N	2.33	0.44
44:AM:317:MET:HB3	44:AM:319:TYR:HE1	1.83	0.44
44:AM:363:VAL:HG13	44:AM:363:VAL:O	2.17	0.44
45:AN:36:TYR:CE1	45:AN:44:LEU:HG	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:221:THR:O	45:AN:224:ASP:HB2	2.18	0.44
45:AN:303:ALA:HB1	45:AN:373:ALA:CB	2.48	0.44
44:BA:217:LEU:HB3	44:BA:219:ILE:CG1	2.47	0.44
44:BC:156:ARG:O	44:BC:159:VAL:HG12	2.17	0.44
45:BD:20:PHE:O	45:BD:24:ILE:HG12	2.18	0.44
45:BD:213:ARG:HE	45:BD:297:LYS:CE	2.31	0.44
44:BE:99:ALA:HB3	44:BE:145:THR:HG23	2.00	0.44
44:BE:252:ILE:HA	44:BE:255:PHE:CE2	2.52	0.44
45:BF:68:LEU:HG	45:BF:96:GLY:H	1.83	0.44
45:BF:222:TYR:CD1	48:BF:502:GDP:C6	3.06	0.44
44:BG:121:ARG:HH12	44:BG:124:LYS:HD2	1.82	0.44
44:BG:181:VAL:CG1	45:BH:256:ASN:HA	2.48	0.44
44:BG:184:PRO:HG3	44:BG:394:LYS:CE	2.48	0.44
44:BG:194:LEU:HD12	44:BG:198:THR:CB	2.48	0.44
44:BG:306:ASP:OD2	44:BG:309:HIS:NE2	2.51	0.44
45:BH:267:MET:SD	45:BH:299:MET:HE3	2.58	0.44
45:BH:387:ALA:O	45:BH:390:ARG:HG2	2.17	0.44
44:BI:288:VAL:CA	44:BI:291:ILE:HG12	2.41	0.44
44:BI:296:PHE:CE2	44:BI:377:MET:HE3	2.47	0.44
45:BJ:19:LYS:CG	45:BJ:226:ASN:HB3	2.48	0.44
45:BJ:263:LEU:HG	45:BJ:422:TYR:CD1	2.53	0.44
45:BL:391:ARG:HD2	45:BL:391:ARG:HA	1.81	0.44
45:BL:395:LEU:HG	45:BL:395:LEU:O	2.17	0.44
44:BM:12:GLY:O	44:BM:16:VAL:HG12	2.17	0.44
45:BN:391:ARG:O	45:BN:392:LYS:HB2	2.17	0.44
44:CA:14:ILE:HD11	44:CA:69:ASP:HB2	2.00	0.44
44:CA:101:ASN:HA	44:CA:144:GLY:HA3	2.00	0.44
44:CA:349:THR:OG1	45:CB:176:SER:HB2	2.17	0.44
45:CB:256:ASN:C	45:CB:257:LEU:HD12	2.38	0.44
44:CC:7:ILE:O	44:CC:137:VAL:HG23	2.18	0.44
45:CD:162:ARG:HA	45:CD:162:ARG:HE	1.82	0.44
45:CD:263:LEU:HG	45:CD:422:TYR:CE1	2.52	0.44
44:CK:8:HIS:ND1	44:CK:67:PHE:HE1	2.16	0.44
45:CL:65:LEU:HD21	45:CL:85:PHE:HE2	1.83	0.44
45:CL:271:ALA:HB2	45:CL:298:ASN:HD21	1.82	0.44
44:CM:13:GLY:O	44:CM:16:VAL:HG12	2.17	0.44
44:CM:54:SER:N	44:CM:62:VAL:O	2.43	0.44
44:CM:168:GLY:H	44:CM:201:ALA:HA	1.80	0.44
44:CM:206:ASN:OD1	44:CM:207:GLU:N	2.51	0.44
45:DB:36:TYR:CG	45:DB:37:HIS:N	2.85	0.44
45:DB:69:GLU:OE2	45:DB:72:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:246:LEU:CD1	44:DC:224:TYR:HE2	2.25	0.44
44:DC:172:TYR:HD2	44:DC:203:MET:SD	2.41	0.44
44:DC:279:GLU:HA	44:DC:279:GLU:OE1	2.17	0.44
45:DD:30:ILE:O	45:DD:30:ILE:HG23	2.17	0.44
45:DF:152:ILE:HG23	45:DF:164:MET:CE	2.48	0.44
45:DF:280:GLN:HA	45:DF:281:TYR:HA	1.75	0.44
44:DG:141:VAL:CG1	44:DG:172:TYR:HD1	2.30	0.44
44:DG:424:ASP:C	44:DG:428:LEU:HD22	2.38	0.44
44:DK:341:ILE:O	44:DK:341:ILE:HG23	2.18	0.44
45:DL:18:ALA:HB2	45:DL:76:VAL:CG2	2.47	0.44
45:DN:86:ARG:HE	45:EN:281:TYR:HB3	1.82	0.44
45:DN:285:THR:OG1	45:DN:288:GLU:HG2	2.18	0.44
45:DN:342:VAL:HG21	45:DN:344:TRP:CD1	2.53	0.44
45:EB:166:THR:HG21	45:EB:196:ALA:HB2	1.99	0.44
45:ED:81:PHE:CA	45:ED:84:LEU:HD13	2.48	0.44
45:ED:116:VAL:C	45:ED:119:VAL:HG12	2.37	0.44
44:EG:18:ASN:O	44:EG:22:GLU:OE1	2.36	0.44
44:EG:121:ARG:O	44:EG:124:LYS:N	2.49	0.44
45:EH:134:GLN:HA	45:EH:165:GLU:O	2.17	0.44
44:EI:328:VAL:HG11	44:EI:353:VAL:HG21	1.98	0.44
45:EJ:103:LYS:N	45:EJ:401:GLU:OE1	2.51	0.44
45:EJ:290:THR:HG21	45:EJ:329:GLN:OE1	2.17	0.44
45:EJ:323:THR:HA	45:EJ:326:VAL:CB	2.47	0.44
45:EJ:325:GLU:CA	45:EJ:328:GLU:HG2	2.44	0.44
45:EL:184:ASN:OD1	45:EL:185:ALA:N	2.50	0.44
45:EL:215:LEU:HA	45:EL:275:SER:HB2	1.99	0.44
45:EL:378:PHE:HB2	45:EL:419:VAL:HG21	1.98	0.44
44:EM:143:GLY:HA3	46:EM:501:GTP:O2A	2.18	0.44
44:EM:431:ASP:HA	44:EM:434:GLU:HB3	1.99	0.44
45:EN:119:VAL:O	45:EN:121:ARG:N	2.51	0.44
45:EN:258:ILE:CG1	45:EN:264:HIS:HB3	2.47	0.44
44:FA:121:ARG:HG3	44:FA:125:LEU:CG	2.46	0.44
45:FB:130:LEU:HD23	45:FB:162:ARG:CG	2.43	0.44
45:FB:180:VAL:O	45:FB:180:VAL:HG22	2.17	0.44
44:FC:407:TRP:HZ3	45:FD:255:VAL:HA	1.79	0.44
45:FD:377:MET:HA	45:FD:380:ARG:CD	2.48	0.44
44:FE:254:GLU:HG2	45:FH:98:GLY:CA	2.46	0.44
45:FF:183:TYR:CE1	45:FF:388:MET:HE3	2.52	0.44
44:FG:398:MET:CE	45:FH:346:PRO:HD2	2.46	0.44
45:FH:323:THR:CG2	45:FH:325:GLU:OE2	2.64	0.44
45:FJ:268:ILE:HA	45:FJ:367:PHE:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:101:ASN:HD21	45:FL:252:LYS:NZ	2.14	0.44
45:FL:3:GLU:OE2	45:FL:128:ASP:N	2.44	0.44
44:FM:6:SER:HA	44:FM:136:LEU:O	2.18	0.44
45:FN:113:ILE:CD1	45:FN:151:LEU:HB2	2.39	0.44
45:FN:178:THR:O	45:FN:181:GLU:HG3	2.18	0.44
44:GA:25:CYS:HG	44:GA:53:PHE:HZ	1.64	0.44
44:GA:226:ASN:OD1	44:GA:227:LEU:HG	2.17	0.44
45:GB:51:TYR:CE1	45:GB:61:PRO:HG3	2.52	0.44
44:GC:71:GLU:OE1	45:GD:247:ASN:ND2	2.50	0.44
45:GD:319:GLY:HA2	45:GD:355:ASP:O	2.18	0.44
44:GE:49:PHE:HB2	44:GE:53:PHE:HB2	2.00	0.44
44:GE:156:ARG:HA	44:GE:159:VAL:HG22	1.99	0.44
44:GG:51:THR:HG22	44:GG:52:PHE:CD2	2.53	0.44
45:GH:135:ILE:HG13	45:GH:152:ILE:CD1	2.48	0.44
44:GI:97:GLU:HG3	44:GI:105:ARG:HH22	1.82	0.44
44:GI:156:ARG:HB3	44:GI:160:ASP:OD2	2.18	0.44
44:GK:119:LEU:HG	44:GK:156:ARG:HG2	2.00	0.44
45:GL:134:GLN:O	45:GL:135:ILE:HD13	2.18	0.44
45:GL:183:TYR:HE1	45:GL:388:MET:HB3	1.82	0.44
45:GL:304:ASP:OD1	45:GL:305:PRO:HD2	2.18	0.44
45:GL:395:LEU:O	45:GL:399:THR:HG23	2.18	0.44
44:GM:235:ILE:HD12	44:GM:235:ILE:H	1.83	0.44
44:GM:269:LEU:HD12	44:GM:303:ALA:H	1.82	0.44
44:GM:419:SER:O	44:GM:422:ARG:HB3	2.18	0.44
44:HA:70:LEU:CA	44:HA:95:GLY:HA3	2.43	0.44
44:HA:208:ALA:HB2	44:HA:304:LYS:N	2.32	0.44
44:HA:273:ALA:HB1	44:HA:274:PRO:HA	1.98	0.44
45:HB:377:MET:O	45:HB:381:VAL:N	2.42	0.44
44:HC:394:LYS:HG2	45:HD:346:PRO:HG3	1.99	0.44
45:HD:267:MET:HE1	45:HD:371:SER:H	1.83	0.44
44:HE:22:GLU:HG3	44:HE:83:TYR:CE2	2.53	0.44
44:HE:181:VAL:HG12	45:HF:256:ASN:CG	2.37	0.44
44:HE:250:VAL:HG11	44:HE:318:MET:HE2	2.00	0.44
45:HF:178:THR:HG23	45:HF:181:GLU:HG3	1.98	0.44
44:HG:312:TYR:HB2	44:HG:343:PHE:CD1	2.52	0.44
44:HG:319:TYR:HB2	44:HG:355:ILE:HD13	1.99	0.44
44:HI:209:ILE:O	44:HI:213:CYS:N	2.33	0.44
44:HI:210:TYR:HE1	44:HI:227:LEU:CD1	2.31	0.44
45:HJ:203:ASP:O	45:HJ:207:LEU:HG	2.18	0.44
45:HJ:349:ILE:HG13	45:HJ:349:ILE:O	2.17	0.44
44:HK:30:ILE:HG12	44:HK:36:MET:SD	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HL:374:ILE:HD12	45:HL:374:ILE:H	1.83	0.44
45:HN:139:LEU:HD22	45:HN:188:SER:CB	2.48	0.44
44:IA:8:HIS:HB2	44:IA:67:PHE:HD1	1.83	0.44
44:IA:22:GLU:HG3	44:IA:83:TYR:CZ	2.53	0.44
44:IA:54:SER:HB3	44:IA:64:ARG:NH2	2.31	0.44
44:IA:261:PRO:HA	45:ID:394:PHE:HD1	1.80	0.44
44:IC:183:GLU:CD	44:IC:184:PRO:HD3	2.38	0.44
45:ID:105:HIS:HD2	45:ID:149:THR:HG23	1.82	0.44
45:ID:203:ASP:HB2	45:ID:300:MET:O	2.17	0.44
44:IE:62:VAL:HG11	44:IE:88:HIS:NE2	2.32	0.44
45:IF:167:PHE:HD1	45:IF:200:MET:HB2	1.82	0.44
45:IF:323:THR:HG23	45:IF:324:LYS:N	2.33	0.44
44:IG:259:LEU:HD21	44:IG:316:SER:HB3	2.00	0.44
45:IH:7:ILE:HG22	45:IH:135:ILE:CD1	2.47	0.44
45:IH:49:VAL:HG12	45:IH:240:LEU:CD2	2.47	0.44
45:IH:170:VAL:HG23	45:IH:171:PRO:HD2	1.98	0.44
45:IH:396:HIS:CE1	45:IH:397:TRP:CD1	3.06	0.44
44:II:401:LYS:O	44:II:402:ARG:HG2	2.17	0.44
45:IJ:73:MET:HE2	45:IJ:73:MET:N	2.33	0.44
45:IJ:341:PHE:HB3	45:IJ:348:ASN:HD21	1.81	0.44
44:IK:54:SER:HB3	44:IK:64:ARG:NH2	2.31	0.44
44:IK:210:TYR:CE2	45:IL:324:LYS:HG3	2.53	0.44
45:IL:61:PRO:CG	45:IL:84:LEU:HB3	2.48	0.44
44:IM:230:LEU:HA	44:IM:233:GLN:HE22	1.82	0.44
44:IM:325:PRO:HG3	44:IM:355:ILE:CD1	2.37	0.44
45:JB:127:CYS:SG	45:JB:130:LEU:HB2	2.58	0.44
44:JC:260:VAL:CG1	45:JF:397:TRP:HE1	2.30	0.44
45:JD:86:ARG:NE	45:KD:281:TYR:HB3	2.33	0.44
44:JE:286:LEU:O	44:JE:373:ARG:HD2	2.17	0.44
45:JF:1:MET:HG3	45:JF:48:ASN:HD21	1.82	0.44
45:JF:320:ARG:O	45:JF:320:ARG:HG3	2.18	0.44
44:JG:362:VAL:HG21	44:JG:368:LEU:O	2.18	0.44
45:JH:178:THR:N	45:JH:181:GLU:OE2	2.51	0.44
45:JH:228:LEU:HD12	45:JH:273:LEU:HD13	1.99	0.44
45:JH:289:LEU:CD1	45:JH:363:MET:HE2	2.46	0.44
45:JH:404:ASP:OD1	45:JH:407:GLU:HG3	2.17	0.44
44:JI:179:THR:CG2	45:JJ:351:SER:HB3	2.40	0.44
45:JJ:137:HIS:O	45:JJ:168:SER:HA	2.18	0.44
45:JJ:199:CYS:C	45:JJ:200:MET:HG3	2.37	0.44
44:JK:69:ASP:OD1	44:JK:70:LEU:N	2.50	0.44
44:JM:203:MET:O	44:JM:302:MET:HE3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:221:ARG:NH1	45:JN:322:SER:HB3	2.32	0.44
44:JM:297:GLU:OE2	44:JM:300:ASN:OD1	2.36	0.44
44:JM:417:GLU:O	44:JM:420:GLU:HG2	2.18	0.44
45:JN:20:PHE:CZ	45:JN:24:ILE:HD11	2.52	0.44
45:JN:204:ASN:OD1	48:JN:501:GDP:N2	2.39	0.44
44:KA:145:THR:HG22	46:KA:501:GTP:PG	2.58	0.44
44:KC:5:ILE:CG2	44:KC:125:LEU:HD23	2.47	0.44
45:KD:407:GLU:O	45:KD:410:GLU:HG2	2.18	0.44
44:KE:66:VAL:HB	44:KE:92:LEU:HD22	1.98	0.44
44:KG:23:LEU:CD2	44:KG:236:SER:HB3	2.37	0.44
44:KG:103:PHE:CE2	44:KG:189:LEU:HD23	2.53	0.44
45:KH:172:SER:HB2	45:KH:205:GLU:OE2	2.17	0.44
44:KI:56:THR:HA	44:LI:285:GLN:HE22	1.82	0.44
44:KI:56:THR:HA	44:LI:285:GLN:NE2	2.33	0.44
44:KI:175:PRO:HB3	44:KI:390:ARG:HE	1.83	0.44
44:KK:105:ARG:O	44:KK:110:ILE:HG12	2.17	0.44
45:KL:197:ASP:O	45:KL:264:HIS:HB2	2.18	0.44
45:KL:247:ASN:O	45:KL:252:LYS:NZ	2.41	0.44
45:KL:287:PRO:HD3	45:KL:325:GLU:OE2	2.18	0.44
44:KM:135:PHE:CD2	44:KM:164:LYS:HE3	2.53	0.44
45:KN:285:THR:HA	45:KN:363:MET:HE1	1.99	0.44
45:KN:395:LEU:HD12	45:KN:395:LEU:O	2.18	0.44
44:LA:151:SER:O	44:LA:155:GLU:HG2	2.17	0.44
44:LA:231:ILE:O	44:LA:234:VAL:N	2.50	0.44
45:LB:325:GLU:HA	45:LB:328:GLU:HG3	1.99	0.44
44:LC:4:VAL:HG23	44:LC:4:VAL:O	2.17	0.44
44:LC:319:TYR:CE2	44:LC:328:VAL:HG23	2.53	0.44
44:LC:425:LEU:O	44:LC:429:GLU:N	2.41	0.44
45:LD:317:PHE:HB3	45:LD:321:MET:CE	2.47	0.44
44:LE:256:GLN:NE2	44:LE:257:THR:HG23	2.32	0.44
45:LF:101:TRP:HB2	45:LF:184:ASN:OD1	2.18	0.44
45:LF:178:THR:O	45:LF:181:GLU:HG2	2.18	0.44
45:LF:284:LEU:HD13	45:LF:362:LYS:CB	2.48	0.44
44:LG:416:GLY:O	44:LG:419:SER:OG	2.21	0.44
45:LH:99:ASN:HA	45:LH:142:GLY:N	2.29	0.44
44:LI:12:GLY:O	44:LI:16:VAL:HG13	2.18	0.44
45:LJ:42:LEU:HD13	45:LJ:356:ILE:HD11	1.99	0.44
45:LL:239:CYS:CB	45:LL:248:SER:H	2.31	0.44
45:LL:312:THR:HA	45:LL:348:ASN:O	2.18	0.44
44:LM:387:VAL:O	44:LM:391:LEU:HD13	2.17	0.44
45:LN:116:VAL:HG13	45:LN:117:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:342:VAL:HG12	45:LN:343:GLU:N	2.32	0.44
44:MA:168:GLY:O	44:MA:201:ALA:HA	2.17	0.44
44:MA:414:GLU:HB2	44:MA:417:GLU:HG2	1.98	0.44
44:MC:393:HIS:O	44:MC:397:LEU:HD23	2.16	0.44
45:MD:186:THR:HG21	45:MD:385:PHE:CD2	2.53	0.44
45:MF:248:SER:OG	45:MF:252:LYS:HD2	2.18	0.44
44:MG:271:SER:HA	44:MG:302:MET:SD	2.57	0.44
44:MG:320:ARG:O	44:MG:374:ALA:N	2.50	0.44
44:MG:329:ASN:HB3	45:MJ:175:VAL:HG11	1.98	0.44
44:MG:407:TRP:HZ3	45:MH:254:ALA:O	2.01	0.44
45:MH:268:ILE:HG22	45:MH:367:PHE:O	2.17	0.44
45:MJ:286:VAL:HB	45:MJ:325:GLU:OE1	2.17	0.44
44:MK:101:ASN:ND2	44:MK:143:GLY:HA2	2.32	0.44
45:ML:293:MET:CE	45:ML:294:PHE:HE1	2.31	0.44
44:MM:22:GLU:HG3	44:MM:83:TYR:OH	2.17	0.44
44:MM:219:ILE:O	44:MM:222:PRO:HD3	2.18	0.44
45:MN:109:GLY:O	45:MN:113:ILE:HD12	2.16	0.44
44:NA:137:VAL:HG23	44:NA:168:GLY:CA	2.47	0.44
44:NA:210:TYR:CD2	45:NB:324:LYS:HE3	2.52	0.44
44:NA:283:HIS:NE2	44:NA:371:VAL:HG23	2.32	0.44
44:NA:301:MET:CE	44:NA:307:PRO:HG3	2.47	0.44
45:NB:395:LEU:CD1	45:NB:399:THR:HG23	2.48	0.44
44:NE:101:ASN:ND2	45:NF:252:LYS:HE2	2.32	0.44
44:NG:7:ILE:O	44:NG:137:VAL:HA	2.17	0.44
44:NG:176:GLN:CG	45:NH:331:LEU:HD21	2.47	0.44
44:NG:191:THR:HG21	44:NG:425:LEU:CD2	2.36	0.44
44:NI:71:GLU:CD	44:NI:73:THR:H	2.20	0.44
44:NI:387:VAL:HA	44:NI:390:ARG:NH1	2.32	0.44
45:NJ:86:ARG:HB2	45:NJ:89:ASN:OD1	2.18	0.44
45:NJ:269:GLY:HA2	45:NJ:300:MET:SD	2.57	0.44
45:NJ:293:MET:CE	45:NJ:367:PHE:CB	2.96	0.44
44:NK:344:VAL:HG22	44:NK:345:ASP:H	1.82	0.44
45:NL:96:GLY:O	45:NL:103:LYS:NZ	2.51	0.44
44:NM:306:ASP:OD2	44:NM:308:ARG:HD2	2.17	0.44
45:NN:113:ILE:HA	45:NN:116:VAL:HG12	2.00	0.44
45:NN:391:ARG:HA	45:NN:391:ARG:HD2	1.86	0.44
44:OA:269:LEU:O	44:OA:379:SER:N	2.46	0.44
45:OB:7:ILE:HD12	45:OB:135:ILE:HD11	1.99	0.44
45:OB:164:MET:SD	45:OB:166:THR:OG1	2.72	0.44
45:OB:410:GLU:O	45:OB:414:ASN:N	2.34	0.44
44:OC:15:GLN:OE1	46:OC:501:GTP:N7	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:204:LEU:HD22	44:OC:302:MET:CE	2.48	0.44
45:OD:166:THR:HG22	45:OD:198:GLU:O	2.17	0.44
45:OD:270:PHE:HD2	45:OD:273:LEU:HD21	1.82	0.44
44:OE:99:ALA:HB3	44:OE:145:THR:HB	1.98	0.44
44:OE:195:LEU:HD12	44:OE:266:HIS:HE1	1.82	0.44
44:OE:237:SER:HB2	44:OE:376:CYS:HB2	1.99	0.44
45:OF:221:THR:HG22	45:OF:222:TYR:N	2.32	0.44
45:OF:248:SER:HA	45:OF:252:LYS:HD2	2.00	0.44
45:OF:382:ALA:O	45:OF:386:THR:HG23	2.17	0.44
44:OG:28:HIS:CB	44:OG:243:ARG:HH22	2.31	0.44
45:OH:231:ALA:HA	45:OH:234:SER:OG	2.18	0.44
45:OH:240:LEU:HD12	45:OH:250:LEU:HD13	2.00	0.44
45:OH:330:MET:CG	45:OH:349:ILE:HG21	2.47	0.44
45:OJ:143:THR:O	45:OJ:147:MET:HG2	2.17	0.44
45:OJ:322:SER:O	45:OJ:325:GLU:HG2	2.18	0.44
45:OJ:403:MET:HA	45:OJ:403:MET:CE	2.48	0.44
44:OK:21:TRP:HA	44:OK:21:TRP:CE3	2.53	0.44
45:OL:86:ARG:HG3	45:OL:88:ASP:OD1	2.17	0.44
45:OL:189:VAL:CG1	45:OL:415:MET:CE	2.95	0.44
44:OM:10:GLY:HA3	44:OM:146:GLY:CA	2.47	0.44
44:OM:105:ARG:O	44:OM:110:ILE:HG12	2.17	0.44
44:OM:216:ASN:ND2	44:OM:275:ILE:HB	2.24	0.44
45:ON:284:LEU:HD11	45:ON:289:LEU:HD21	1.98	0.44
44:PA:288:VAL:HG11	44:PA:327:ASP:HB3	1.99	0.44
44:PA:371:VAL:HG22	44:PA:373:ARG:H	1.82	0.44
45:PB:152:ILE:HD12	45:PB:164:MET:CE	2.48	0.44
45:PD:131:GLN:HE21	45:PD:250:LEU:CB	2.26	0.44
45:PD:203:ASP:HB2	45:PD:300:MET:O	2.18	0.44
45:PD:344:TRP:HB3	45:PD:430:ALA:HB2	2.00	0.44
45:PD:344:TRP:CZ3	45:PD:345:ILE:HB	2.53	0.44
44:PE:423:GLU:O	44:PE:426:ALA:HB3	2.17	0.44
44:PG:395:PHE:CD1	44:PG:422:ARG:HD3	2.52	0.44
45:PH:135:ILE:HG13	45:PH:164:MET:HE1	1.98	0.44
44:PK:186:ASN:OD1	44:PK:187:SER:N	2.51	0.44
44:PK:439:THR:HG21	45:PN:390:ARG:HD2	1.99	0.44
45:PL:151:LEU:HD23	45:PL:155:VAL:HG21	1.99	0.44
45:PL:172:SER:OG	45:PL:205:GLU:HB2	2.18	0.44
45:PL:309:ARG:O	45:PL:372:THR:OG1	2.16	0.44
44:PM:23:LEU:HD11	44:PM:233:GLN:CD	2.38	0.44
45:PN:50:TYR:CD2	45:PN:241:ARG:HD3	2.53	0.44
45:PN:60:VAL:HG23	45:PN:84:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:205:GLU:OE2	45:PN:302:ALA:N	2.51	0.44
44:QA:14:ILE:CG2	44:QA:74:VAL:HG21	2.46	0.44
44:QA:280:LYS:O	44:QA:283:HIS:ND1	2.36	0.44
44:QA:307:PRO:CB	44:QA:312:TYR:OH	2.65	0.44
45:QB:143:THR:HG23	45:QB:144:GLY:H	1.83	0.44
44:QC:257:THR:HG21	45:QD:98:GLY:O	2.18	0.44
44:QC:296:PHE:CD2	44:QC:341:ILE:HD13	2.48	0.44
44:QC:353:VAL:O	44:QC:353:VAL:HG13	2.18	0.44
45:QD:156:ARG:HD3	45:QD:164:MET:SD	2.57	0.44
45:QD:185:ALA:O	45:QD:189:VAL:HG13	2.18	0.44
44:QE:1:MET:O	44:QE:131:GLY:HA3	2.18	0.44
45:QF:24:ILE:HD12	45:QF:24:ILE:H	1.82	0.44
45:QF:263:LEU:HG	45:QF:422:TYR:CE2	2.52	0.44
44:QG:229:ARG:CZ	44:QG:363:VAL:HG11	2.47	0.44
45:QH:183:TYR:CE1	45:QH:388:MET:HE2	2.52	0.44
45:QH:207:LEU:HD23	45:QH:300:MET:SD	2.57	0.44
44:QI:93:ILE:CG2	44:QI:117:LEU:HD23	2.48	0.44
45:QJ:163:ILE:HG12	45:QJ:251:ARG:NH1	2.32	0.44
45:QL:257:LEU:HG	45:QL:312:THR:CG2	2.48	0.44
45:QL:313:ALA:CB	45:QL:349:ILE:HG12	2.48	0.44
45:QL:325:GLU:OE2	44:QM:221:ARG:HD3	2.17	0.44
44:QM:84:ARG:HG3	44:QM:85:GLN:NE2	2.32	0.44
44:QM:286:LEU:O	44:QM:373:ARG:NE	2.37	0.44
45:QN:7:ILE:CG2	45:QN:66:MET:HE3	2.48	0.44
44:RA:268:MET:HG3	44:RA:378:ILE:HG22	2.00	0.44
45:RB:276:ARG:NH1	45:RB:279:GLN:OE1	2.46	0.44
44:RC:175:PRO:HG2	44:RC:304:LYS:HD2	1.99	0.44
44:RC:315:CYS:HB3	44:RC:351:PHE:CD2	2.52	0.44
44:RC:332:ILE:C	44:RC:336:LYS:HZ2	2.21	0.44
44:RE:273:ALA:HB1	44:RE:274:PRO:HA	2.00	0.44
44:RG:90:GLU:OE1	44:SG:280:LYS:NZ	2.51	0.44
44:RG:184:PRO:HB2	44:RG:398:MET:CE	2.47	0.44
45:RH:244:GLY:HA2	45:RH:355:ASP:OD2	2.18	0.44
44:RI:51:THR:CG2	44:RI:243:ARG:HD3	2.47	0.44
44:RI:404:PHE:O	44:RI:408:TYR:HD1	2.01	0.44
45:RJ:1:MET:C	45:RJ:2:ARG:HG2	2.38	0.44
45:RJ:237:THR:O	45:RJ:241:ARG:NH1	2.51	0.44
44:RK:168:GLY:O	44:RK:169:PHE:HD2	2.00	0.44
45:RL:6:HIS:HB2	45:RL:134:GLN:NE2	2.31	0.44
45:RL:70:PRO:O	45:RL:74:ASP:HB2	2.18	0.44
45:RL:293:MET:SD	45:RL:367:PHE:CD1	3.11	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:385:PHE:HA	45:RL:388:MET:CE	2.47	0.44
44:RM:70:LEU:HA	44:RM:95:GLY:HA3	1.99	0.44
45:RN:22:GLU:HG2	45:RN:81:PHE:HB2	2.00	0.44
45:RN:268:ILE:HG22	45:RN:368:VAL:CG1	2.47	0.44
45:SB:290:THR:HA	45:SB:293:MET:HE3	1.99	0.44
44:SC:401:LYS:O	44:SC:402:ARG:HG3	2.18	0.44
44:SE:6:SER:C	44:SE:7:ILE:HD13	2.37	0.44
44:SE:232:ALA:O	44:SE:235:ILE:N	2.51	0.44
44:SE:306:ASP:OD2	44:SE:308:ARG:NE	2.47	0.44
44:SE:326:LYS:NZ	45:SF:212:PHE:HZ	2.14	0.44
45:SF:178:THR:HB	45:SF:181:GLU:CG	2.27	0.44
45:SF:204:ASN:O	45:SF:207:LEU:N	2.51	0.44
45:SH:242:PHE:CE2	45:SH:356:ILE:HG21	2.52	0.44
45:SH:256:ASN:HB2	45:SH:350:LYS:HD2	2.00	0.44
44:SI:9:VAL:HG13	44:SI:139:ASN:HB3	1.99	0.44
45:SJ:34:GLY:O	45:SJ:58:ARG:HB2	2.18	0.44
44:SK:169:PHE:HD1	44:SK:202:VAL:CB	2.31	0.44
44:SK:174:SER:HB2	44:SK:177:VAL:O	2.18	0.44
44:SK:203:MET:HE2	44:SK:384:ILE:HD11	1.98	0.44
44:SM:188:ILE:HG23	44:SM:425:LEU:CD1	2.47	0.44
45:SN:131:GLN:NE2	45:SN:251:ARG:HB2	2.33	0.44
45:SN:146:GLY:HA2	45:SN:149:THR:CG2	2.48	0.44
45:SN:151:LEU:HD21	45:SN:155:VAL:HG21	1.99	0.44
45:TB:61:PRO:CG	45:TB:84:LEU:HB3	2.48	0.44
45:TB:130:LEU:HD21	45:TB:133:PHE:CZ	2.52	0.44
44:TC:235:ILE:C	44:TC:239:THR:HG1	2.08	0.44
44:TC:273:ALA:HB3	44:TC:375:VAL:HG11	2.00	0.44
45:TD:28:HIS:HA	45:TD:43:GLN:HG2	1.99	0.44
45:TD:49:VAL:HG11	45:TD:241:ARG:HG2	2.00	0.44
45:TD:137:HIS:CE1	45:TD:166:THR:HB	2.52	0.44
45:TD:238:CYS:SG	45:TD:318:ARG:HD2	2.58	0.44
45:TD:262:ARG:HB3	45:TD:418:LEU:HD11	2.00	0.44
45:TD:425:TYR:HA	45:TD:428:ALA:HB2	2.00	0.44
44:TE:205:ASP:O	44:TE:209:ILE:HG13	2.18	0.44
44:TE:316:SER:O	44:TE:378:ILE:HB	2.17	0.44
44:TE:340:THR:HG23	44:TE:341:ILE:HG13	2.00	0.44
45:TF:105:HIS:HB2	45:TF:146:GLY:CA	2.47	0.44
45:TF:286:VAL:HG11	45:TF:325:GLU:HG2	1.99	0.44
45:TF:310:TYR:CD2	45:TF:341:PHE:HE2	2.36	0.44
45:TF:333:VAL:O	45:TF:333:VAL:HG12	2.16	0.44
44:TM:64:ARG:NH1	44:TM:125:LEU:HD22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:296:PHE:HD2	44:TM:335:ILE:CD1	2.29	0.44
44:TM:320:ARG:HH21	44:TM:358:GLN:C	2.20	0.44
44:TM:320:ARG:CD	44:TM:360:PRO:HG3	2.42	0.44
45:TN:92:PHE:HD1	45:TN:93:GLY:O	2.01	0.44
45:TN:178:THR:CG2	45:TN:180:VAL:HG12	2.47	0.44
44:UA:302:MET:O	44:UA:302:MET:HG3	2.18	0.44
45:UB:8:GLN:HE21	45:UB:65:LEU:CG	2.27	0.44
45:UB:325:GLU:N	44:UC:221:ARG:NH1	2.65	0.44
44:UC:208:ALA:HB3	44:UC:302:MET:O	2.17	0.44
44:UE:22:GLU:HG3	44:UE:83:TYR:CE2	2.52	0.44
44:UE:390:ARG:HG3	44:UE:391:LEU:H	1.82	0.44
45:UF:164:MET:CE	45:UF:196:ALA:HA	2.48	0.44
45:UF:250:LEU:HD23	45:UF:250:LEU:N	2.32	0.44
45:UF:255:VAL:HG21	44:UG:100:ALA:O	2.17	0.44
45:UF:290:THR:O	45:UF:293:MET:HG2	2.17	0.44
44:UG:108:TYR:HA	44:UG:112:LYS:NZ	2.32	0.44
45:UH:16:ILE:HD13	45:UH:226:ASN:CG	2.37	0.44
45:UH:108:GLU:O	45:UH:111:GLU:N	2.49	0.44
45:UJ:391:ARG:HD2	45:UJ:391:ARG:HA	1.69	0.44
44:UK:270:SER:HA	44:UK:377:MET:O	2.18	0.44
45:UL:103:LYS:HA	45:UL:107:THR:OG1	2.18	0.44
45:UL:239:CYS:CB	45:UL:354:CYS:HB2	2.47	0.44
45:UN:168:SER:O	45:UN:201:VAL:HA	2.18	0.44
44:VA:183:GLU:HG2	44:VA:184:PRO:HD3	1.99	0.44
44:VA:222:PRO:HG2	45:VB:324:LYS:HD3	2.00	0.44
45:VB:192:LEU:HD11	45:VB:196:ALA:HB2	1.96	0.44
44:VC:145:THR:HG23	44:VC:146:GLY:N	2.33	0.44
44:VC:223:THR:CB	45:VD:322:SER:HB2	2.47	0.44
45:VD:304:ASP:O	45:VD:373:ALA:HB2	2.17	0.44
45:VD:395:LEU:HG	45:VD:399:THR:CG2	2.48	0.44
44:VE:89:PRO:HG3	44:WE:280:LYS:HB2	1.99	0.44
44:VE:145:THR:HG22	46:VE:501:GTP:O3G	2.17	0.44
44:VE:318:MET:HE1	44:VE:354:GLY:HA3	1.99	0.44
45:VF:80:PRO:O	45:VF:81:PHE:HB2	2.18	0.44
45:VF:217:LEU:HD11	45:VF:220:PRO:HB3	2.00	0.44
44:VG:136:LEU:HD22	44:VG:167:LEU:HD22	1.96	0.44
45:VH:302:ALA:HB3	45:VH:377:MET:HE1	2.00	0.44
44:VI:88:HIS:CB	44:VI:91:GLN:HG2	2.45	0.44
44:VI:387:VAL:HG12	44:VI:390:ARG:NH1	2.32	0.44
45:VJ:164:MET:SD	45:VJ:164:MET:N	2.90	0.44
45:VJ:315:ALA:C	45:VJ:316:LEU:HD12	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VK:14:ILE:HD11	44:VK:69:ASP:HB2	1.99	0.44
44:VK:97:GLU:CG	44:VK:105:ARG:HH22	2.30	0.44
45:VL:258:ILE:HD12	45:VL:264:HIS:HA	2.00	0.44
45:VL:318:ARG:NH2	45:VL:358:PRO:HG3	2.33	0.44
44:VM:14:ILE:HD12	44:VM:69:ASP:HB2	1.98	0.44
44:VM:205:ASP:O	44:VM:209:ILE:HG13	2.18	0.44
44:VM:437:ILE:HG13	44:VM:437:ILE:O	2.18	0.44
45:VN:44:LEU:HD22	45:VN:47:ILE:HG21	1.99	0.44
45:VN:109:GLY:O	45:VN:113:ILE:HB	2.17	0.44
45:VN:172:SER:OG	45:VN:175:VAL:HG22	2.17	0.44
45:VN:248:SER:O	45:VN:253:LEU:HD13	2.17	0.44
45:VN:399:THR:HA	45:VN:403:MET:O	2.17	0.44
44:WA:181:VAL:HG22	45:WB:256:ASN:OD1	2.16	0.44
44:WA:268:MET:HB2	44:WA:380:ASN:CA	2.45	0.44
45:WB:112:LEU:O	45:WB:115:SER:OG	2.21	0.44
45:WB:138:SER:OG	45:WB:169:VAL:HB	2.18	0.44
45:WB:304:ASP:HB3	45:WB:307:HIS:CG	2.52	0.44
45:WB:390:ARG:HG3	45:WB:391:ARG:N	2.32	0.44
44:WC:145:THR:H	46:WC:501:GTP:PG	2.41	0.44
44:WC:174:SER:HB3	44:WC:207:GLU:HB2	1.99	0.44
45:WD:50:TYR:HD2	45:WD:241:ARG:HD3	1.77	0.44
45:WD:221:THR:HG22	45:WD:224:ASP:CG	2.37	0.44
44:WE:224:TYR:O	44:WE:227:LEU:N	2.51	0.44
44:WE:338:LYS:HZ1	44:WE:341:ILE:CD1	2.28	0.44
45:WF:174:LYS:CD	45:WF:175:VAL:HG13	2.47	0.44
45:WF:375:GLN:OE1	45:WF:423:GLN:HB3	2.18	0.44
45:WH:167:PHE:HE2	45:WH:268:ILE:HD13	1.82	0.44
44:WK:185:TYR:CZ	44:WK:398:MET:HB3	2.53	0.44
45:WL:391:ARG:O	45:WL:392:LYS:HB2	2.18	0.44
44:WM:100:ALA:HB1	45:WN:252:LYS:HA	1.99	0.44
44:WM:105:ARG:NH1	45:WN:251:ARG:HD3	2.32	0.44
44:WM:183:GLU:N	44:WM:184:PRO:CD	2.80	0.44
1:6H:207:THR:HG23	45:FD:19:LYS:NZ	2.32	0.44
2:0A:47:PRO:HG2	35:7R:67:TYR:CG	2.52	0.44
15:0V:91:GLY:HA3	45:LN:194:GLU:HB3	2.00	0.44
17:1B:1:MET:HE1	45:LD:359:LYS:HG3	2.00	0.44
4:1C:54:GLY:N	44:EM:221:ARG:O	2.51	0.44
8:1G:147:HIS:NE2	44:KA:278:ALA:HB1	2.32	0.44
22:1L:150:ARG:CZ	45:CH:42:LEU:HD22	2.47	0.44
22:1L:151:ARG:NH1	45:CH:359:LYS:HA	2.31	0.44
26:1R:386:GLY:HA2	45:ED:224:ASP:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:2F:93:GLU:OE1	44:HE:299:ALA:HA	2.16	0.44
30:2G:15:GLN:HE22	45:NJ:218:THR:HB	1.81	0.44
32:2I:82:VAL:CG1	44:GE:299:ALA:HB2	2.46	0.44
16:2X:27:PHE:H	45:ML:276:ARG:NH2	2.16	0.44
17:3B:226:GLU:OE2	45:JH:53:GLU:HG3	2.16	0.44
24:3O:421:LYS:HZ1	44:TG:58:ALA:HA	1.82	0.44
11:3Q:97:LYS:HD2	45:AJ:392:LYS:HE2	1.99	0.44
26:3R:298:TYR:HE1	45:CL:83:GLN:HG3	1.81	0.44
13:3T:225:SER:HB2	44:MK:196:GLU:CD	2.32	0.44
15:3V:85:PHE:CE2	45:LB:410:GLU:HG3	2.53	0.44
35:4R:11:LEU:HB2	45:LF:26:ASP:OD2	2.16	0.44
38:5G:18:THR:HG23	38:5G:20:LEU:H	1.82	0.44
38:5H:87:LEU:O	38:5H:93:PHE:HE1	2.01	0.44
35:5R:539:ALA:HA	35:5R:548:PHE:CE1	2.53	0.44
41:6G:221:SER:OG	44:VC:338:LYS:HG2	2.17	0.44
41:6G:247:ASP:OD1	41:6G:247:ASP:C	2.56	0.44
11:6Q:15:TYR:CZ	11:6Q:17:ILE:HD13	2.52	0.44
35:6R:77:TYR:CB	44:AM:278:ALA:HB1	2.48	0.44
35:6R:120:TYR:HD2	35:6R:127:ILE:HG12	1.83	0.44
35:6R:525:GLU:H	35:6R:525:GLU:CD	2.21	0.44
35:7R:127:ILE:O	35:7R:147:ARG:HA	2.18	0.44
35:7R:311:LYS:CG	35:7R:327:GLU:HB2	2.47	0.44
35:7R:478:ASN:OD1	35:7R:479:PRO:HD2	2.18	0.44
35:7R:500:VAL:HG21	45:EB:32:PRO:CD	2.48	0.44
43:8P:338:UNK:O	43:8P:341:UNK:N	2.51	0.44
44:AA:409:VAL:HG22	44:AA:415:GLU:HA	2.00	0.44
45:AB:382:ALA:O	45:AB:385:PHE:HB3	2.18	0.44
44:AE:21:TRP:O	44:AE:25:CYS:N	2.30	0.44
45:AF:18:ALA:O	45:AF:22:GLU:HG3	2.17	0.44
44:AG:398:MET:CE	45:AH:345:ILE:HG13	2.48	0.44
45:AH:16:ILE:HG21	45:AH:136:THR:HG21	1.98	0.44
45:AH:28:HIS:CE1	45:AH:241:ARG:HD2	2.53	0.44
45:AH:242:PHE:HB3	45:AH:356:ILE:HG13	1.98	0.44
46:AI:501:GTP:O1G	45:AJ:252:LYS:NZ	2.39	0.44
45:AJ:3:GLU:OE2	45:AJ:127:CYS:HB2	2.18	0.44
45:AJ:47:ILE:HG13	45:AJ:47:ILE:O	2.17	0.44
45:AJ:135:ILE:HG12	45:AJ:164:MET:CE	2.48	0.44
45:AJ:342:VAL:HG21	45:AJ:344:TRP:NE1	2.33	0.44
44:AK:1:MET:HE1	45:AN:94:GLN:HG2	2.00	0.44
44:AK:156:ARG:HG3	44:AK:160:ASP:OD2	2.18	0.44
45:AL:350:LYS:HG2	45:AL:351:SER:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:72:PRO:HA	44:BA:94:SER:OG	2.17	0.44
44:BA:268:MET:SD	44:BA:268:MET:N	2.90	0.44
45:BD:143:THR:H	48:BD:502:GDP:PB	2.41	0.44
44:BE:269:LEU:HD22	44:BE:384:ILE:CG2	2.47	0.44
44:BE:413:MET:HA	44:BE:413:MET:HE1	1.99	0.44
45:BF:342:VAL:CG2	45:BF:345:ILE:HG22	2.40	0.44
44:BG:138:PHE:CD1	44:BG:169:PHE:HB2	2.53	0.44
44:BG:205:ASP:CG	44:BG:303:ALA:HA	2.38	0.44
44:BG:317:MET:O	44:BG:317:MET:HG3	2.18	0.44
44:BG:329:ASN:O	44:BG:329:ASN:ND2	2.46	0.44
45:BH:101:TRP:CE3	45:BH:187:LEU:HD13	2.53	0.44
44:BI:183:GLU:N	44:BI:184:PRO:CD	2.78	0.44
44:BI:203:MET:HG3	44:BI:384:ILE:CD1	2.47	0.44
45:BJ:64:ILE:HA	45:BJ:89:ASN:CB	2.44	0.44
45:BJ:256:ASN:ND2	45:BJ:350:LYS:HD2	2.26	0.44
45:BL:65:LEU:HD13	45:BL:90:PHE:HE1	1.81	0.44
45:BL:116:VAL:O	45:BL:119:VAL:HG12	2.18	0.44
45:BL:124:ALA:HB1	45:BL:159:TYR:HE2	1.82	0.44
45:BL:287:PRO:HG3	45:BL:329:GLN:HE22	1.82	0.44
44:BM:168:GLY:O	44:BM:201:ALA:HA	2.18	0.44
44:BM:188:ILE:HD12	44:BM:395:PHE:CD2	2.53	0.44
45:BN:131:GLN:C	45:BN:162:ARG:HD3	2.38	0.44
45:BN:166:THR:HG22	45:BN:199:CYS:HA	2.00	0.44
44:CA:136:LEU:HB3	44:CA:138:PHE:CE1	2.53	0.44
45:CB:238:CYS:SG	45:CB:354:CYS:HB2	2.57	0.44
44:CC:89:PRO:HB2	44:DC:280:LYS:HD2	2.00	0.44
44:CC:89:PRO:HB2	44:DC:280:LYS:CD	2.47	0.44
44:CC:188:ILE:HD11	44:CC:391:LEU:HB3	1.99	0.44
44:CE:141:VAL:O	44:CE:141:VAL:HG12	2.18	0.44
44:CG:141:VAL:HG13	44:CG:142:GLY:N	2.32	0.44
44:CG:257:THR:HG22	45:CH:397:TRP:CZ3	2.53	0.44
44:CI:433:GLU:O	44:CI:437:ILE:HG23	2.18	0.44
45:CJ:266:PHE:CD1	45:CJ:370:ASN:HB2	2.53	0.44
44:CK:278:ALA:N	44:CK:369:ALA:HB2	2.33	0.44
45:CL:204:ASN:OD1	48:CL:501:GDP:N2	2.48	0.44
45:CL:378:PHE:O	45:CL:381:VAL:HG12	2.17	0.44
44:CM:147:SER:HB2	44:CM:190:SER:HB2	1.99	0.44
44:CM:317:MET:HE2	44:CM:375:VAL:CG2	2.48	0.44
45:CN:257:LEU:CD2	45:CN:312:THR:HG23	2.48	0.44
44:DA:21:TRP:HZ2	44:DA:65:ALA:HB2	1.82	0.44
44:DA:292:THR:CG2	44:DA:331:SER:HB3	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:263:LEU:HG	45:DB:422:TYR:HD1	1.83	0.44
45:DB:334:GLN:HA	45:DB:334:GLN:OE1	2.17	0.44
45:DB:374:ILE:HG12	45:DB:422:TYR:CZ	2.52	0.44
44:DC:362:VAL:O	44:DC:362:VAL:HG13	2.17	0.44
45:DD:73:MET:HB3	45:DD:90:PHE:CD1	2.52	0.44
45:DD:113:ILE:O	45:DD:116:VAL:HG12	2.17	0.44
44:DE:151:SER:HB3	44:DE:193:SER:OG	2.18	0.44
44:DE:205:ASP:OD2	44:DE:304:LYS:N	2.50	0.44
44:DE:416:GLY:HA2	44:DE:419:SER:OG	2.18	0.44
45:DF:22:GLU:HA	45:DF:81:PHE:CD2	2.53	0.44
44:DG:194:LEU:HD11	44:DG:267:PHE:CZ	2.53	0.44
45:DH:36:TYR:CE1	45:DH:38:GLY:HA3	2.53	0.44
45:DH:58:ARG:HD2	45:EH:280:GLN:OE1	2.18	0.44
45:DH:66:MET:SD	45:DH:66:MET:O	2.76	0.44
45:DH:261:PRO:HD3	44:DI:406:HIS:CD2	2.52	0.44
45:DJ:7:ILE:HG12	45:DJ:64:ILE:HD12	1.98	0.44
45:DJ:86:ARG:CD	45:EJ:281:TYR:HB2	2.37	0.44
45:DJ:337:ASN:HB3	45:DJ:340:TYR:CD2	2.53	0.44
44:DK:110:ILE:HG13	44:DK:111:GLY:N	2.33	0.44
45:DL:252:LYS:HB2	44:DM:100:ALA:HA	1.99	0.44
45:DL:316:LEU:O	45:DL:365:VAL:HA	2.18	0.44
44:EA:288:VAL:HG11	44:EA:327:ASP:CB	2.46	0.44
45:EB:377:MET:HA	45:EB:380:ARG:CD	2.47	0.44
44:EC:53:PHE:HA	44:EC:63:PRO:HA	1.99	0.44
45:ED:68:LEU:HD23	45:ED:97:ALA:N	2.32	0.44
45:ED:116:VAL:HG21	45:ED:151:LEU:HD11	1.99	0.44
45:ED:137:HIS:CE1	45:ED:168:SER:HG	2.35	0.44
44:EE:260:VAL:HG13	44:EE:265:ILE:O	2.18	0.44
44:EE:274:PRO:HB2	44:EE:286:LEU:HD13	1.99	0.44
45:EF:28:HIS:CE1	45:EF:241:ARG:HD2	2.52	0.44
45:EF:86:ARG:HG3	45:EF:86:ARG:O	2.18	0.44
45:EF:236:VAL:HG13	45:EF:253:LEU:HD12	1.98	0.44
44:EG:103:PHE:CE2	44:EG:189:LEU:HD13	2.53	0.44
44:EG:223:THR:HG23	44:EG:225:THR:N	2.33	0.44
45:EH:138:SER:OG	45:EH:169:VAL:HG22	2.18	0.44
45:EH:286:VAL:N	45:EH:287:PRO:CD	2.81	0.44
45:EH:414:ASN:O	45:EH:418:LEU:N	2.47	0.44
44:EI:63:PRO:HG3	44:EI:86:LEU:HD21	2.00	0.44
44:EI:238:LEU:HD11	44:EI:255:PHE:CZ	2.53	0.44
44:EI:324:VAL:HG22	44:EI:327:ASP:OD2	2.17	0.44
44:EI:346:TRP:CZ3	45:EJ:393:ALA:HB1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EJ:337:ASN:HB3	45:EJ:340:TYR:HD2	1.81	0.44
44:EM:21:TRP:CZ3	44:EM:52:PHE:HB3	2.52	0.44
44:EM:193:SER:C	44:EM:197:HIS:HD1	2.18	0.44
44:EM:313:MET:HB2	44:EM:380:ASN:O	2.18	0.44
44:EM:313:MET:N	44:EM:381:SER:HA	2.32	0.44
45:EN:136:THR:HA	45:EN:167:PHE:HB2	1.98	0.44
45:EN:313:ALA:HA	45:EN:369:GLY:CA	2.41	0.44
45:EN:319:GLY:HA2	45:EN:357:PRO:HD3	1.99	0.44
44:FA:6:SER:CA	44:FA:136:LEU:HB2	2.45	0.44
44:FA:14:ILE:CG1	44:FA:75:ILE:HD11	2.43	0.44
44:FA:91:GLN:CD	44:FA:121:ARG:HD2	2.38	0.44
44:FA:250:VAL:O	44:FA:250:VAL:HG13	2.18	0.44
44:FA:306:ASP:HB3	44:FA:309:HIS:ND1	2.33	0.44
45:FB:183:TYR:HD1	45:FB:385:PHE:CD1	2.34	0.44
45:FB:285:THR:H	45:FB:288:GLU:HB2	1.82	0.44
44:FC:107:HIS:CG	44:FC:107:HIS:O	2.70	0.44
44:FC:108:TYR:CD2	44:FC:413:MET:CE	3.01	0.44
44:FC:203:MET:CE	44:FC:267:PHE:HD2	2.30	0.44
44:FE:7:ILE:HG13	44:FE:137:VAL:HA	1.99	0.44
44:FE:361:THR:O	44:FE:361:THR:HG23	2.17	0.44
44:FG:88:HIS:CG	44:FG:89:PRO:HD2	2.53	0.44
45:FH:69:GLU:OE2	45:FH:72:THR:HG22	2.17	0.44
45:FH:143:THR:O	45:FH:147:MET:HG3	2.18	0.44
45:FH:187:LEU:HD11	45:FH:408:PHE:CE1	2.52	0.44
44:FK:221:ARG:NE	45:FL:321:MET:SD	2.91	0.44
44:FK:297:GLU:OE1	44:FK:300:ASN:N	2.50	0.44
45:FL:141:GLY:O	45:FL:145:SER:HB3	2.18	0.44
44:FM:117:LEU:O	44:FM:121:ARG:HG2	2.18	0.44
44:FM:120:ASP:OD1	44:FM:123:ARG:NH2	2.46	0.44
45:FN:134:GLN:O	45:FN:135:ILE:HD13	2.18	0.44
45:FN:181:GLU:HB2	45:FN:182:PRO:HD3	1.99	0.44
44:GA:6:SER:HA	44:GA:136:LEU:O	2.17	0.44
44:GA:270:SER:CB	44:GA:378:ILE:HD12	2.43	0.44
45:GB:131:GLN:O	45:GB:163:ILE:HG12	2.17	0.44
45:GB:184:ASN:OD1	45:GB:185:ALA:N	2.51	0.44
44:GC:217:LEU:HD21	44:GC:275:ILE:HG22	2.00	0.44
44:GC:332:ILE:HA	44:GC:335:ILE:HD13	2.00	0.44
45:GD:258:ILE:HD12	45:GD:263:LEU:O	2.17	0.44
45:GF:139:LEU:HD11	45:GF:168:SER:HB3	1.99	0.44
45:GF:155:VAL:HG13	45:GF:156:ARG:N	2.33	0.44
45:GF:172:SER:HB2	45:GF:205:GLU:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:178:THR:CG2	45:GF:181:GLU:HG3	2.48	0.44
44:GG:104:ALA:HB2	44:GG:413:MET:HE2	2.00	0.44
44:GG:213:CYS:HA	44:GG:217:LEU:CD1	2.46	0.44
45:GH:114:ASP:OD1	45:GH:115:SER:N	2.45	0.44
45:GH:167:PHE:HD2	45:GH:233:MET:HE2	1.83	0.44
45:GH:192:LEU:O	45:GH:196:ALA:HB3	2.18	0.44
44:GK:185:TYR:CE2	44:GK:404:PHE:HB2	2.51	0.44
44:GK:326:LYS:HE2	45:GN:220:PRO:CA	2.47	0.44
44:GK:398:MET:HB3	45:GL:344:TRP:O	2.18	0.44
45:GL:12:CYS:HB3	45:GL:138:SER:HB2	1.99	0.44
45:GL:268:ILE:HG22	45:GL:368:VAL:HA	2.00	0.44
45:GL:287:PRO:HA	45:GL:329:GLN:OE1	2.17	0.44
45:GL:320:ARG:HG3	45:GL:320:ARG:O	2.18	0.44
44:GM:212:ILE:CD1	44:GM:215:ARG:HH22	2.28	0.44
45:GN:305:PRO:HB2	45:GN:310:TYR:HE2	1.83	0.44
45:HB:35:THR:O	45:HB:37:HIS:ND1	2.50	0.44
44:HC:263:PRO:HD3	45:HF:396:HIS:CG	2.52	0.44
44:HC:332:ILE:HD12	44:HC:351:PHE:CE2	2.53	0.44
45:HF:4:ILE:HD11	45:HF:50:TYR:CE1	2.52	0.44
44:HG:271:SER:HA	44:HG:302:MET:H	1.82	0.44
45:HJ:40:SER:N	45:HJ:43:GLN:OE1	2.39	0.44
45:HJ:326:VAL:HG11	45:HJ:351:SER:OG	2.16	0.44
44:HM:202:VAL:HG13	44:HM:268:MET:O	2.18	0.44
44:IA:183:GLU:OE1	44:IA:183:GLU:N	2.39	0.44
45:IB:1:MET:O	45:IB:2:ARG:HG2	2.17	0.44
45:ID:46:ARG:HB2	45:ID:241:ARG:O	2.18	0.44
44:IE:167:LEU:HA	44:IE:200:VAL:O	2.17	0.44
44:IE:413:MET:HE1	44:IE:418:PHE:CZ	2.53	0.44
45:IF:32:PRO:HG3	45:IF:81:PHE:CZ	2.52	0.44
45:IF:86:ARG:HH11	44:JC:284:GLU:HG2	1.81	0.44
45:IF:124:ALA:HB1	45:IF:130:LEU:HD22	1.99	0.44
44:IG:198:THR:HG22	44:IG:200:VAL:H	1.82	0.44
44:IG:217:LEU:HD21	44:IG:275:ILE:CG2	2.48	0.44
44:IG:230:LEU:O	44:IG:234:VAL:HG23	2.18	0.44
45:IH:204:ASN:HA	45:IH:207:LEU:CG	2.47	0.44
44:IK:183:GLU:HG2	44:IK:184:PRO:HD3	2.00	0.44
44:IK:372:MET:O	44:IK:373:ARG:HG3	2.18	0.44
45:IL:166:THR:HG21	45:IL:192:LEU:HD11	1.99	0.44
45:IN:185:ALA:O	45:IN:189:VAL:HG23	2.18	0.44
45:IN:273:LEU:N	45:IN:292:GLN:HE22	2.16	0.44
44:JA:155:GLU:HG2	44:JA:197:HIS:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JA:387:VAL:O	44:JA:390:ARG:HG2	2.17	0.44
45:JB:286:VAL:N	45:JB:287:PRO:CD	2.81	0.44
44:JC:113:GLU:C	44:JC:114:ILE:HD13	2.38	0.44
44:JC:179:THR:HG21	45:JD:246:LEU:HD21	1.99	0.44
44:JE:326:LYS:NZ	45:JH:208:TYR:HD1	2.14	0.44
44:JG:135:PHE:C	44:JG:136:LEU:HD12	2.38	0.44
44:JG:265:ILE:HG23	44:JG:432:TYR:CE1	2.53	0.44
45:JH:147:MET:HB3	45:JH:147:MET:HE2	1.62	0.44
44:JI:120:ASP:HB3	44:JI:124:LYS:HZ1	1.82	0.44
44:JI:258:ASN:HD21	44:JI:352:LYS:CG	2.31	0.44
44:JI:421:ALA:O	44:JI:424:ASP:HB2	2.18	0.44
44:JK:326:LYS:HZ3	45:JN:220:PRO:HD2	1.83	0.44
44:JM:100:ALA:HB2	45:JN:251:ARG:HD2	1.99	0.44
44:JM:220:GLU:HG2	44:JM:221:ARG:HG2	1.99	0.44
45:JN:311:LEU:HD11	45:JN:372:THR:CG2	2.48	0.44
44:KA:210:TYR:HB3	45:KB:324:LYS:HE3	1.97	0.44
44:KA:242:LEU:HD11	44:KA:252:ILE:HD12	1.95	0.44
45:KB:202:ILE:HG23	45:KB:300:MET:HE2	1.98	0.44
44:KC:22:GLU:HG3	44:KC:83:TYR:CZ	2.53	0.44
44:KC:196:GLU:HG2	44:KC:197:HIS:ND1	2.32	0.44
45:KF:326:VAL:O	45:KF:330:MET:HG2	2.18	0.44
44:KG:341:ILE:HD12	44:KG:341:ILE:N	2.33	0.44
44:KK:348:PRO:HB2	45:KN:384:GLN:NE2	2.33	0.44
45:KL:158:GLU:HG2	45:KL:159:TYR:CE1	2.53	0.44
44:KM:139:ASN:OD1	44:KM:170:THR:HG22	2.16	0.44
44:KM:308:ARG:HD2	44:NM:282:TYR:CZ	2.53	0.44
44:LA:73:THR:HG21	45:LB:247:ASN:ND2	2.26	0.44
44:LA:185:TYR:CE2	44:LA:404:PHE:HB2	2.43	0.44
44:LA:394:LYS:HG2	45:LB:346:PRO:CG	2.44	0.44
44:LC:37:PRO:HB2	44:LC:39:ASP:OD1	2.16	0.44
45:LD:77:ARG:HH12	45:LD:83:GLN:CD	2.21	0.44
45:LD:336:LYS:O	45:LD:336:LYS:HG3	2.18	0.44
44:LE:54:SER:HB3	44:LE:64:ARG:NH1	2.31	0.44
44:LE:258:ASN:HD22	45:LH:179:VAL:HG22	1.82	0.44
45:LF:207:LEU:HD23	45:LF:300:MET:HG3	2.00	0.44
45:LH:36:TYR:CE1	45:LH:38:GLY:HA3	2.53	0.44
45:LH:114:ASP:N	45:LH:114:ASP:OD1	2.51	0.44
45:LH:242:PHE:CZ	45:LH:356:ILE:HG21	2.52	0.44
44:LI:21:TRP:HZ3	44:LI:63:PRO:CB	2.30	0.44
44:LI:312:TYR:O	44:LI:344:VAL:HG23	2.18	0.44
45:LJ:173:PRO:HD2	45:LJ:380:ARG:CD	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:271:ALA:HB1	45:LL:272:PRO:HA	1.98	0.44
44:MA:105:ARG:HG2	44:MA:411:GLU:OE1	2.17	0.44
44:MA:268:MET:HB2	44:MA:380:ASN:CA	2.47	0.44
44:MA:350:GLY:C	44:MA:351:PHE:HD2	2.21	0.44
44:MC:437:ILE:HG13	44:MC:437:ILE:O	2.16	0.44
45:MF:42:LEU:HD23	45:MF:42:LEU:N	2.23	0.44
45:MF:192:LEU:HG	45:MF:196:ALA:HB2	2.00	0.44
45:MF:248:SER:HA	45:MF:252:LYS:HD2	2.00	0.44
45:MF:344:TRP:CZ3	45:MF:345:ILE:HB	2.53	0.44
44:MG:19:ALA:HA	44:MG:22:GLU:OE1	2.17	0.44
44:MG:41:THR:O	44:MG:41:THR:HG22	2.17	0.44
44:MG:200:VAL:HG13	44:MG:268:MET:SD	2.58	0.44
45:MH:3:GLU:HB3	45:MH:49:VAL:HA	1.98	0.44
44:MI:141:VAL:HG11	44:MI:172:TYR:CD1	2.52	0.44
44:MI:221:ARG:NH2	45:MJ:325:GLU:H	2.15	0.44
44:MI:284:GLU:HG3	44:MI:286:LEU:CD2	2.47	0.44
44:MI:288:VAL:HA	44:MI:291:ILE:HG12	1.99	0.44
44:MK:110:ILE:HD12	44:MK:113:GLU:OE1	2.18	0.44
44:MK:183:GLU:HA	44:MK:186:ASN:CG	2.38	0.44
45:ML:73:MET:CE	45:ML:92:PHE:CD1	3.01	0.44
45:ML:163:ILE:HD12	45:ML:197:ASP:OD2	2.18	0.44
45:ML:266:PHE:CD1	45:ML:370:ASN:HB2	2.52	0.44
44:MM:38:SER:OG	44:MM:39:ASP:N	2.48	0.44
44:MM:207:GLU:HG3	44:MM:304:LYS:NZ	2.31	0.44
44:NA:19:ALA:O	44:NA:22:GLU:HG2	2.18	0.44
45:NB:66:MET:CE	45:NB:151:LEU:HD13	2.48	0.44
44:NC:138:PHE:CD1	44:NC:169:PHE:HB2	2.53	0.44
44:NC:372:MET:O	44:NC:373:ARG:HD3	2.18	0.44
44:NE:207:GLU:O	44:NE:210:TYR:N	2.50	0.44
44:NE:407:TRP:CE3	45:NF:255:VAL:HG22	2.53	0.44
45:NF:287:PRO:HB3	45:NF:329:GLN:NE2	2.32	0.44
45:NH:164:MET:SD	45:NH:165:GLU:N	2.91	0.44
44:NI:201:ALA:O	44:NI:268:MET:HG2	2.17	0.44
44:NI:399:TYR:OH	44:NI:402:ARG:NH2	2.51	0.44
45:NJ:1:MET:C	45:NJ:2:ARG:HG2	2.38	0.44
45:NJ:2:ARG:CA	45:NJ:131:GLN:HB2	2.47	0.44
45:NJ:65:LEU:HD22	45:NJ:90:PHE:CE1	2.53	0.44
44:NK:239:THR:O	44:NK:239:THR:HG22	2.17	0.44
45:NL:289:LEU:HD11	45:NL:363:MET:HB3	1.99	0.44
45:NL:359:LYS:HD2	45:NL:359:LYS:O	2.18	0.44
45:NN:130:LEU:HG	45:NN:162:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:401:LYS:HD2	45:OB:425:TYR:HE1	1.83	0.44
44:OA:428:LEU:O	44:OA:431:ASP:HB2	2.17	0.44
45:OB:324:LYS:O	45:OB:327:ASP:HB2	2.18	0.44
44:OC:340:THR:HG23	44:OC:341:ILE:HG13	2.00	0.44
44:OE:311:LYS:HD2	44:OE:342:GLN:HB3	1.99	0.44
45:OF:251:ARG:HG2	45:OF:251:ARG:NH1	2.32	0.44
44:OG:11:GLN:OE1	44:OG:74:VAL:HG11	2.17	0.44
45:OH:135:ILE:CG2	45:OH:152:ILE:HD11	2.43	0.44
44:OI:220:GLU:C	44:OI:221:ARG:HD2	2.38	0.44
45:OJ:103:LYS:HA	45:OJ:107:THR:OG1	2.17	0.44
44:OK:188:ILE:O	44:OK:191:THR:N	2.51	0.44
45:OL:242:PHE:CD2	45:OL:356:ILE:HB	2.49	0.44
44:OM:105:ARG:NH1	45:ON:251:ARG:HD2	2.32	0.44
44:OM:323:VAL:CG1	44:OM:373:ARG:HG2	2.48	0.44
45:ON:1:MET:SD	45:ON:2:ARG:HB3	2.58	0.44
45:PB:47:ILE:HG21	45:PB:59:TYR:CE2	2.52	0.44
45:PB:208:TYR:CZ	45:PB:225:LEU:HD11	2.53	0.44
45:PB:255:VAL:O	45:PB:255:VAL:CG1	2.65	0.44
45:PD:83:GLN:HA	45:PD:83:GLN:OE1	2.18	0.44
44:PE:24:PHE:CZ	44:PE:235:ILE:HG22	2.49	0.44
44:PE:271:SER:OG	44:PE:301:MET:HA	2.18	0.44
45:PF:170:VAL:HG13	45:PF:201:VAL:HG23	1.99	0.44
44:PG:74:VAL:HG13	44:PG:75:ILE:N	2.33	0.44
45:PH:257:LEU:C	45:PH:258:ILE:HD13	2.38	0.44
45:PH:323:THR:HA	45:PH:326:VAL:CB	2.43	0.44
45:PH:330:MET:HE3	45:PH:349:ILE:CG1	2.47	0.44
45:PH:332:ASN:HD21	45:PH:336:LYS:HZ1	1.65	0.44
44:PI:165:SER:O	44:PI:166:LYS:HG3	2.17	0.44
44:PI:204:LEU:HD13	44:PI:231:ILE:CD1	2.47	0.44
45:PJ:32:PRO:HG3	45:PJ:81:PHE:CE2	2.52	0.44
45:PJ:266:PHE:CD1	45:PJ:370:ASN:HB2	2.53	0.44
44:PK:11:GLN:NE2	45:PL:246:LEU:HA	2.32	0.44
44:PK:17:GLY:O	44:PK:21:TRP:CD1	2.71	0.44
44:PK:109:THR:HG22	44:PK:110:ILE:CG2	2.47	0.44
44:PK:177:VAL:HG22	45:PL:331:LEU:HD22	1.99	0.44
44:PK:273:ALA:HB1	44:PK:274:PRO:HA	2.00	0.44
44:PK:295:ALA:HB1	44:PK:377:MET:CE	2.47	0.44
44:PK:320:ARG:CZ	44:PK:360:PRO:HA	2.47	0.44
45:PL:6:HIS:CE1	45:PL:136:THR:HG23	2.43	0.44
45:PL:162:ARG:NE	45:PL:162:ARG:HA	2.33	0.44
44:PM:345:ASP:HB2	44:PM:438:GLU:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:10:GLY:N	44:QA:68:LEU:O	2.44	0.44
44:QA:79:ARG:O	44:QA:84:ARG:HB3	2.16	0.44
44:QA:273:ALA:N	44:QA:375:VAL:O	2.51	0.44
45:QB:188:SER:O	45:QB:192:LEU:N	2.47	0.44
44:QC:252:ILE:HG12	44:QC:255:PHE:CE2	2.52	0.44
45:QD:164:MET:HG2	45:QD:197:ASP:HB2	2.00	0.44
44:QE:20:CYS:SG	44:QE:21:TRP:HD1	2.39	0.44
44:QE:262:TYR:OH	45:QF:391:ARG:HB3	2.18	0.44
45:QF:1:MET:C	45:QF:2:ARG:HG2	2.37	0.44
44:QG:12:GLY:O	44:QG:15:GLN:N	2.50	0.44
44:QG:198:THR:HG22	44:QG:200:VAL:O	2.18	0.44
44:QG:265:ILE:HG23	44:QG:432:TYR:CE1	2.45	0.44
45:QH:9:GLY:O	45:QH:13:GLY:HA3	2.18	0.44
44:QK:257:THR:HG22	45:QL:397:TRP:CE2	2.52	0.44
44:QM:390:ARG:HG3	44:QM:391:LEU:N	2.33	0.44
44:RA:258:ASN:HD22	44:RA:352:LYS:HD3	1.83	0.44
44:RA:413:MET:HE2	44:RA:417:GLU:HB2	1.99	0.44
45:RB:20:PHE:N	45:RB:230:SER:OG	2.51	0.44
44:RC:71:GLU:HB2	44:RC:98:ASP:CB	2.47	0.44
44:RC:344:VAL:HG22	44:RC:345:ASP:N	2.33	0.44
45:RD:238:CYS:SG	45:RD:239:CYS:N	2.91	0.44
45:RD:376:GLU:HG3	45:RD:380:ARG:HH21	1.83	0.44
45:RF:133:PHE:CE2	45:RF:155:VAL:HG11	2.52	0.44
45:RH:289:LEU:HD23	45:RH:289:LEU:HA	1.84	0.44
45:RH:304:ASP:OD1	45:RH:306:ARG:HG2	2.17	0.44
44:RK:289:ALA:O	44:RK:292:THR:HG22	2.17	0.44
45:RL:28:HIS:HE2	45:RL:241:ARG:NH2	2.14	0.44
44:RM:118:CYS:CB	44:RM:120:ASP:HA	2.47	0.44
44:RM:343:PHE:HE2	44:RM:350:GLY:O	2.00	0.44
44:RM:348:PRO:HD2	45:RN:388:MET:HE3	2.00	0.44
45:RN:377:MET:HA	45:RN:380:ARG:HD2	2.00	0.44
44:SA:351:PHE:N	45:SB:179:VAL:HG12	2.32	0.44
45:SB:389:PHE:CZ	45:SB:405:GLU:HB2	2.53	0.44
44:SC:98:ASP:OD2	44:SC:99:ALA:N	2.51	0.44
45:SD:107:THR:HG1	45:SD:108:GLU:CD	2.07	0.44
44:SE:141:VAL:HG11	44:SE:172:TYR:CD1	2.38	0.44
45:SF:286:VAL:HB	45:SF:325:GLU:OE1	2.17	0.44
45:SH:319:GLY:O	45:SH:355:ASP:HA	2.17	0.44
44:SI:68:LEU:HD21	44:SI:118:CYS:SG	2.57	0.44
44:SI:91:GLN:CA	44:SI:121:ARG:NH1	2.80	0.44
44:SI:370:LYS:HG3	44:SI:370:LYS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:22:GLU:CG	45:SJ:81:PHE:HB2	2.45	0.44
45:SJ:143:THR:OG1	48:SJ:501:GDP:O1B	2.34	0.44
45:SJ:173:PRO:CG	45:SJ:380:ARG:HH11	2.31	0.44
44:SK:152:LEU:HD12	44:SK:155:GLU:OE1	2.18	0.44
44:SK:169:PHE:HD1	44:SK:202:VAL:HG21	1.82	0.44
45:SL:4:ILE:CG2	45:SL:131:GLN:HB3	2.48	0.44
45:SL:6:HIS:HB2	45:SL:134:GLN:HE21	1.82	0.44
45:SL:238:CYS:HB2	45:SL:318:ARG:NE	2.31	0.44
44:SM:101:ASN:HA	44:SM:144:GLY:N	2.33	0.44
44:SM:123:ARG:HH12	44:SM:124:LYS:HZ3	1.66	0.44
44:SM:213:CYS:HB3	44:SM:217:LEU:HD12	2.00	0.44
45:TB:87:PRO:HD3	45:UB:281:TYR:CD2	2.52	0.44
44:TC:99:ALA:O	44:TC:105:ARG:HD3	2.17	0.44
45:TD:256:ASN:OD1	44:TE:182:VAL:HB	2.18	0.44
44:TE:75:ILE:HG23	44:TE:92:LEU:HD11	1.98	0.44
44:TE:208:ALA:HB2	44:TE:304:LYS:N	2.32	0.44
44:TE:276:ILE:HG23	44:TE:281:ALA:HB1	1.99	0.44
45:TF:164:MET:HB3	45:TF:197:ASP:H	1.83	0.44
45:TF:231:ALA:HB1	45:TF:270:PHE:CE2	2.53	0.44
45:TH:351:SER:OG	45:TH:352:SER:N	2.50	0.44
44:TI:175:PRO:HD2	44:TI:207:GLU:CD	2.38	0.44
45:TJ:106:TYR:CD2	45:TJ:403:MET:HE1	2.53	0.44
45:TL:1:MET:HG3	45:TL:46:ARG:NH1	2.33	0.44
45:TL:187:LEU:HD11	45:TL:408:PHE:CZ	2.52	0.44
45:TN:4:ILE:HG13	45:TN:5:VAL:N	2.33	0.44
45:TN:55:THR:HA	45:TN:87:PRO:CG	2.48	0.44
45:TN:105:HIS:HD2	45:TN:146:GLY:O	1.99	0.44
45:TN:287:PRO:HA	45:TN:290:THR:HG22	2.00	0.44
44:UA:195:LEU:HD11	44:UA:264:ARG:CZ	2.46	0.44
44:UA:214:ARG:HG2	44:UA:214:ARG:NH1	2.33	0.44
45:UB:287:PRO:HG3	45:UB:329:GLN:CD	2.38	0.44
45:UB:341:PHE:HB3	45:UB:348:ASN:ND2	2.21	0.44
44:UC:347:CYS:HA	45:UD:388:MET:CE	2.47	0.44
44:UC:372:MET:HG2	44:UC:373:ARG:HG3	2.00	0.44
44:UE:228:ASN:O	44:UE:231:ILE:HB	2.17	0.44
45:UH:284:LEU:HD13	45:UH:363:MET:SD	2.58	0.44
45:UH:403:MET:CE	45:UH:403:MET:HA	2.47	0.44
44:UI:215:ARG:NH2	44:UI:299:ALA:O	2.51	0.44
44:UI:238:LEU:HD23	44:UI:238:LEU:C	2.38	0.44
44:UK:56:THR:HG22	44:UK:60:LYS:O	2.17	0.44
44:UK:109:THR:HA	44:UK:112:LYS:HZ1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:276:ILE:HD11	44:UK:280:LYS:O	2.18	0.44
45:UL:238:CYS:HG	45:UL:318:ARG:HE	1.64	0.44
44:UM:107:HIS:CE1	44:UM:152:LEU:HB2	2.52	0.44
44:UM:213:CYS:O	44:UM:217:LEU:HB2	2.18	0.44
44:VA:13:GLY:O	44:VA:16:VAL:HG12	2.17	0.44
44:VC:184:PRO:O	44:VC:187:SER:N	2.46	0.44
45:VF:117:LEU:HD11	45:VF:158:GLU:OE2	2.17	0.44
45:VF:134:GLN:CA	45:VF:165:GLU:HB2	2.46	0.44
44:VI:46:ASP:O	44:VI:47:ASP:OD1	2.35	0.44
44:VI:108:TYR:CD2	44:VI:413:MET:HE3	2.53	0.44
44:VI:188:ILE:HD12	44:VI:425:LEU:HD11	1.99	0.44
44:VI:280:LYS:HD2	44:VI:283:HIS:CG	2.52	0.44
44:VI:385:ALA:O	44:VI:389:SER:HB3	2.18	0.44
44:VK:32:PRO:O	44:VK:86:LEU:HB2	2.18	0.44
44:VK:350:GLY:HA2	45:VN:179:VAL:HG11	1.99	0.44
44:VK:377:MET:C	44:VK:378:ILE:HD13	2.38	0.44
44:VM:176:GLN:O	45:VN:347:ASN:ND2	2.51	0.44
44:VM:270:SER:HB2	44:VM:378:ILE:HD13	2.00	0.44
44:VM:317:MET:O	44:VM:318:MET:HE1	2.18	0.44
45:VN:28:HIS:HA	45:VN:43:GLN:HG2	2.00	0.44
45:VN:238:CYS:SG	45:VN:239:CYS:N	2.91	0.44
45:VN:343:GLU:OE2	45:VN:430:ALA:HB3	2.18	0.44
44:WA:292:THR:CG2	44:WA:331:SER:HB3	2.33	0.44
45:WB:22:GLU:OE2	45:WB:80:PRO:HB2	2.16	0.44
45:WB:70:PRO:HG3	45:WB:92:PHE:CD2	2.53	0.44
45:WB:221:THR:HG22	45:WB:224:ASP:OD2	2.17	0.44
44:WC:11:GLN:OE1	46:WC:501:GTP:PB	2.76	0.44
44:WC:37:PRO:O	44:WC:40:LYS:HB2	2.17	0.44
44:WC:101:ASN:HA	44:WC:144:GLY:CA	2.47	0.44
44:WC:172:TYR:CZ	44:WC:191:THR:HG22	2.53	0.44
45:WD:352:SER:C	45:WD:353:ILE:HD12	2.38	0.44
44:WE:210:TYR:HA	45:WF:324:LYS:HZ2	1.82	0.44
44:WE:224:TYR:HE1	45:WF:323:THR:HG1	1.63	0.44
44:WE:320:ARG:HG3	44:WE:374:ALA:HB3	1.99	0.44
45:WF:207:LEU:HD13	45:WF:225:LEU:HB3	1.99	0.44
45:WF:306:ARG:HG3	45:WF:307:HIS:HD2	1.83	0.44
44:WG:102:ASN:ND2	44:WG:407:TRP:O	2.47	0.44
44:WI:30:ILE:HD13	44:WI:53:PHE:CE2	2.53	0.44
44:WI:251:ASP:O	44:WI:254:GLU:N	2.50	0.44
45:WL:208:TYR:CD1	45:WL:212:PHE:HE2	2.36	0.44
44:WM:3:GLU:CD	44:WM:131:GLY:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:248:LEU:CD2	44:WM:354:GLY:HA2	2.47	0.44
44:WM:259:LEU:HD11	44:WM:378:ILE:HG22	2.00	0.44
45:WN:163:ILE:O	45:WN:164:MET:HE2	2.18	0.44
3:0B:221:ALA:O	45:JL:222:TYR:HB2	2.17	0.44
5:0D:175:THR:HG21	44:EC:72:PRO:CB	2.46	0.44
7:0F:149:VAL:HG12	45:FD:53:GLU:HG2	2.00	0.44
20:1J:315:PHE:H	44:IK:372:MET:HE1	1.83	0.44
26:1R:291:GLY:HA3	45:DD:276:ARG:HB3	1.98	0.44
13:1T:82:ALA:HB2	44:MC:412:GLY:O	2.17	0.44
15:1V:102:LYS:O	44:LI:416:GLY:HA3	2.17	0.44
27:1W:165:ILE:HG12	45:LD:279:GLN:HE22	1.80	0.44
2:2A:61:TYR:HB2	45:MJ:48:ASN:OD1	2.17	0.44
5:2D:9:TYR:OH	44:DK:279:GLU:O	2.35	0.44
6:2E:50:ILE:HG13	35:5R:382:TYR:CD1	2.53	0.44
31:2H:196:SER:HB3	45:AD:40:SER:HB2	1.99	0.44
10:2N:8:ARG:CZ	45:IB:53:GLU:H	2.31	0.44
26:2R:193:TYR:CD1	44:AG:40:LYS:HE2	2.52	0.44
28:3C:72:GLN:CD	45:LB:40:SER:HA	2.36	0.44
26:3R:382:TYR:CB	45:EL:276:ARG:HH12	2.30	0.44
14:3U:238:SER:CA	45:WN:33:THR:HG23	2.44	0.44
28:4C:298:PRO:HA	45:KN:320:ARG:NH2	2.32	0.44
37:5C:65:THR:HG21	38:5G:67:ARG:NH2	2.33	0.44
37:5D:110:ARG:N	44:NM:280:LYS:HA	2.32	0.44
37:5D:116:ALA:HA	44:NM:323:VAL:HG21	1.98	0.44
38:5F:54:LYS:HA	45:OF:227:HIS:CE1	2.52	0.44
38:5F:113:LEU:HD12	38:5F:114:PRO:CD	2.42	0.44
38:5G:71:PRO:HB3	38:5G:104:MET:CE	2.47	0.44
38:5G:116:TYR:CE1	44:NI:85:GLN:HG2	2.53	0.44
38:5G:200:LEU:HD23	38:5G:202:LYS:HZ3	1.82	0.44
38:5H:15:THR:HG22	38:5H:16:GLN:N	2.22	0.44
11:5Q:115:LYS:NZ	44:AK:264:ARG:HE	2.15	0.44
35:5R:121:TYR:CD1	35:5R:147:ARG:HD2	2.52	0.44
35:5R:481:ASN:HB2	35:5R:483:LYS:HZ2	1.82	0.44
36:5S:128:LEU:HD23	36:5S:135:ILE:HG12	1.99	0.44
36:5S:154:SER:HB2	36:5S:157:ILE:HG13	1.99	0.44
40:6F:124:ARG:O	40:6F:127:TRP:N	2.48	0.44
41:6G:265:LEU:HD21	44:VA:339:ARG:HD2	2.00	0.44
35:6R:31:PHE:CZ	45:LN:90:PHE:CD1	3.06	0.44
35:6R:253:ARG:O	35:6R:253:ARG:CG	2.66	0.44
35:6R:413:ILE:HG22	35:6R:417:TYR:CE2	2.18	0.44
35:6R:466:TRP:CZ3	45:EN:77:ARG:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:150:ILE:O	35:7R:159:TYR:HA	2.17	0.44
35:7R:168:GLY:C	35:7R:179:ARG:HE	2.22	0.44
35:7R:470:PHE:HD2	35:7R:471:LEU:HG	1.77	0.44
42:8L:68:UNK:O	42:8L:72:UNK:N	2.50	0.44
44:AA:7:ILE:HG23	44:AA:137:VAL:HA	1.98	0.44
44:AA:93:ILE:HD12	44:AA:93:ILE:H	1.83	0.44
44:AA:103:PHE:CE1	44:AA:148:GLY:HA2	2.53	0.44
45:AB:136:THR:HG22	45:AB:167:PHE:CD2	2.52	0.44
45:AD:60:VAL:HG23	45:AD:61:PRO:HD2	1.99	0.44
44:AG:205:ASP:OD2	44:AG:304:LYS:HB2	2.17	0.44
44:AG:347:CYS:HA	45:AJ:388:MET:HE2	1.99	0.44
45:AH:5:VAL:HG22	45:AH:133:PHE:CD1	2.53	0.44
44:AI:344:VAL:HG12	44:AI:345:ASP:N	2.32	0.44
45:AJ:285:THR:OG1	45:AJ:287:PRO:HD2	2.18	0.44
45:AJ:318:ARG:HD2	45:AJ:318:ARG:HA	1.81	0.44
44:AK:288:VAL:CG1	44:AK:327:ASP:HB3	2.47	0.44
44:AM:413:MET:HE1	44:AM:418:PHE:CZ	2.53	0.44
45:AN:45:GLU:HG3	45:AN:46:ARG:HG2	2.00	0.44
45:AN:180:VAL:O	45:AN:180:VAL:HG22	2.18	0.44
45:AN:240:LEU:O	45:AN:240:LEU:HG	2.18	0.44
44:BA:54:SER:HA	44:BA:64:ARG:NH2	2.32	0.44
44:BA:261:PRO:HA	45:BD:394:PHE:CD2	2.52	0.44
45:BD:60:VAL:HG21	45:BD:86:ARG:CG	2.46	0.44
45:BD:404:ASP:HB2	45:BD:406:MET:HE1	2.00	0.44
44:BE:191:THR:HG21	44:BE:425:LEU:CD2	2.44	0.44
45:BF:12:CYS:SG	45:BF:138:SER:HB2	2.58	0.44
45:BF:62:ARG:CB	45:BF:62:ARG:HH11	2.30	0.44
45:BF:237:THR:HG23	45:BF:241:ARG:HH22	1.83	0.44
44:BG:181:VAL:HG11	45:BH:256:ASN:HA	1.99	0.44
45:BH:116:VAL:O	45:BH:119:VAL:HG12	2.17	0.44
44:BI:105:ARG:HH11	45:BJ:251:ARG:HD3	1.83	0.44
44:BI:108:TYR:CE2	44:BI:413:MET:HE2	2.52	0.44
44:BI:115:VAL:O	44:BI:119:LEU:HD23	2.17	0.44
44:BI:169:PHE:CE2	44:BI:235:ILE:HD13	2.53	0.44
45:BJ:181:GLU:N	45:BJ:182:PRO:HD2	2.32	0.44
45:BL:240:LEU:HG	45:BL:240:LEU:O	2.18	0.44
44:BM:66:VAL:HG22	44:BM:67:PHE:N	2.32	0.44
44:BM:288:VAL:O	44:BM:291:ILE:HG12	2.18	0.44
44:BM:297:GLU:OE1	44:BM:299:ALA:N	2.51	0.44
45:BN:20:PHE:CE1	45:BN:233:MET:HG2	2.53	0.44
45:BN:276:ARG:HD3	45:BN:276:ARG:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:263:PRO:HD3	45:CB:396:HIS:NE2	2.33	0.44
44:CA:370:LYS:HD2	44:CA:370:LYS:C	2.38	0.44
45:CB:166:THR:OG1	45:CB:198:GLU:O	2.30	0.44
45:CB:252:LYS:HZ3	44:CC:100:ALA:HA	1.83	0.44
45:CD:1:MET:N	45:CD:48:ASN:HD21	2.16	0.44
45:CD:259:PRO:O	45:CD:260:PHE:HD2	2.00	0.44
45:CD:286:VAL:CG1	45:CD:325:GLU:HG2	2.41	0.44
44:CE:124:LYS:HA	44:CE:127:ASP:OD2	2.18	0.44
44:CE:276:ILE:HD12	44:CE:284:GLU:OE2	2.18	0.44
44:CE:370:LYS:HD2	44:CE:370:LYS:O	2.17	0.44
45:CF:81:PHE:HA	45:CF:84:LEU:HD13	1.99	0.44
45:CF:249:ASP:OD1	45:CF:251:ARG:N	2.51	0.44
44:CG:117:LEU:HB3	44:CG:121:ARG:NH1	2.32	0.44
45:CH:355:ASP:O	45:CH:356:ILE:HD13	2.18	0.44
45:CH:362:LYS:HZ2	45:CH:363:MET:CE	2.31	0.44
44:CI:103:PHE:HB3	44:CI:408:TYR:CE1	2.53	0.44
45:CJ:72:THR:HG23	45:CJ:73:MET:N	2.33	0.44
45:CJ:86:ARG:CZ	45:DJ:281:TYR:N	2.81	0.44
45:CJ:374:ILE:HG22	45:CJ:422:TYR:HH	1.82	0.44
44:CK:270:SER:CB	44:CK:378:ILE:HD13	2.48	0.44
45:CL:257:LEU:HD21	45:CL:368:VAL:HG23	1.99	0.44
44:CM:115:VAL:O	44:CM:119:LEU:HG	2.18	0.44
44:CM:217:LEU:HD13	44:CM:277:SER:N	2.32	0.44
44:CM:281:ALA:O	44:CM:283:HIS:N	2.51	0.44
44:CM:362:VAL:HG13	44:CM:362:VAL:O	2.18	0.44
44:CM:414:GLU:HB2	44:CM:417:GLU:HG2	2.00	0.44
45:CN:13:GLY:HA2	45:CN:136:THR:OG1	2.17	0.44
44:DA:4:VAL:HG22	44:DA:136:LEU:HG	2.00	0.44
45:DB:31:ASP:HB3	45:DB:32:PRO:CD	2.48	0.44
45:DB:175:VAL:HG23	45:DB:175:VAL:O	2.18	0.44
45:DB:247:ASN:H	44:DC:11:GLN:HE22	1.65	0.44
45:DB:251:ARG:HH22	44:DC:105:ARG:NH1	2.16	0.44
44:DC:184:PRO:HG2	44:DC:398:MET:HE1	1.99	0.44
44:DC:248:LEU:HB3	44:DC:355:ILE:CB	2.47	0.44
44:DC:248:LEU:HB3	44:DC:355:ILE:CG1	2.48	0.44
44:DE:6:SER:HB2	44:DE:8:HIS:CE1	2.53	0.44
44:DE:237:SER:HA	44:DE:320:ARG:HH11	1.83	0.44
44:DG:229:ARG:HG2	44:DG:229:ARG:HH11	1.83	0.44
45:DH:68:LEU:HD23	45:DH:97:ALA:CB	2.42	0.44
45:DH:216:LYS:O	45:DH:216:LYS:HG3	2.18	0.44
45:DH:262:ARG:HE	45:DH:418:LEU:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:406:MET:O	45:DH:410:GLU:HG3	2.17	0.44
44:DI:184:PRO:HG2	44:DI:398:MET:CE	2.47	0.44
44:DI:300:ASN:ND2	44:DI:300:ASN:O	2.50	0.44
45:DJ:68:LEU:HB3	45:DJ:143:THR:OG1	2.18	0.44
45:DJ:389:PHE:O	45:DJ:392:LYS:HD3	2.18	0.44
44:DK:18:ASN:OD1	44:DK:19:ALA:N	2.51	0.44
44:DK:27:GLU:CD	44:DK:243:ARG:HH12	2.21	0.44
44:DK:326:LYS:HE2	45:DL:212:PHE:HZ	1.83	0.44
44:DK:385:ALA:O	44:DK:389:SER:N	2.48	0.44
45:DL:232:ALA:HB1	45:DL:268:ILE:HD12	1.98	0.44
45:DN:50:TYR:HD2	45:DN:241:ARG:HD3	1.77	0.44
45:EB:304:ASP:OD1	45:EB:305:PRO:HD2	2.18	0.44
44:EC:5:ILE:HG22	44:EC:6:SER:N	2.33	0.44
44:EC:71:GLU:CD	44:EC:73:THR:H	2.21	0.44
44:EC:256:GLN:O	45:ED:397:TRP:NE1	2.40	0.44
44:EE:209:ILE:O	44:EE:213:CYS:N	2.39	0.44
44:EE:320:ARG:NH2	44:EE:360:PRO:HB3	2.32	0.44
45:EF:11:GLN:O	45:EF:14:ASN:HB2	2.17	0.44
45:EF:60:VAL:HG11	45:EF:86:ARG:HH22	1.83	0.44
45:EF:91:VAL:O	45:EF:91:VAL:HG23	2.17	0.44
45:EF:252:LYS:HE2	44:EG:101:ASN:OD1	2.18	0.44
45:EF:258:ILE:HG13	45:EF:266:PHE:CZ	2.49	0.44
45:EH:308:GLY:C	45:EH:309:ARG:HG3	2.38	0.44
44:EI:332:ILE:HG23	44:EI:351:PHE:CD2	2.53	0.44
45:EJ:210:ILE:O	45:EJ:214:THR:OG1	2.25	0.44
44:EK:317:MET:HE2	44:EK:319:TYR:CZ	2.53	0.44
44:EM:12:GLY:O	44:EM:16:VAL:HG13	2.18	0.44
44:EM:27:GLU:CD	44:EM:243:ARG:HH12	2.20	0.44
44:EM:212:ILE:HD13	44:EM:215:ARG:NH2	2.32	0.44
44:EM:287:SER:O	44:EM:291:ILE:HG12	2.17	0.44
45:EN:213:ARG:HH21	45:EN:297:LYS:HD3	1.83	0.44
44:FA:352:LYS:HD3	45:FD:178:THR:HA	1.99	0.44
44:FC:296:PHE:O	44:FC:301:MET:HE2	2.18	0.44
45:FD:62:ARG:NE	45:FD:123:GLU:OE2	2.45	0.44
45:FD:257:LEU:CD1	45:FD:312:THR:HG23	2.45	0.44
44:FE:115:VAL:HG11	44:FE:152:LEU:CD2	2.48	0.44
44:FE:318:MET:HA	44:FE:318:MET:CE	2.47	0.44
45:FF:163:ILE:HD11	45:FF:251:ARG:CB	2.48	0.44
45:FF:317:PHE:CA	45:FF:365:VAL:HG12	2.32	0.44
45:FF:372:THR:HA	45:FF:422:TYR:HE2	1.83	0.44
44:FG:37:PRO:CG	44:FG:40:LYS:HD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FH:268:ILE:HG22	45:FH:368:VAL:HG12	1.99	0.44
45:FJ:51:TYR:CE1	45:FJ:61:PRO:HG3	2.44	0.44
45:FJ:73:MET:O	45:FJ:76:VAL:HG12	2.18	0.44
44:FK:141:VAL:HG11	44:FK:172:TYR:CD1	2.43	0.44
44:FK:200:VAL:HG21	44:FK:256:GLN:HB3	1.93	0.44
44:FK:238:LEU:HD21	44:FK:255:PHE:CE2	2.53	0.44
44:FK:319:TYR:CD2	44:FK:328:VAL:HG22	2.52	0.44
44:FK:397:LEU:HG	45:FL:344:TRP:O	2.17	0.44
45:FL:166:THR:OG1	45:FL:199:CYS:HA	2.18	0.44
45:FL:222:TYR:O	45:FL:226:ASN:N	2.43	0.44
45:FL:345:ILE:HG23	45:FL:345:ILE:O	2.18	0.44
45:FL:403:MET:HE2	45:FL:403:MET:HA	2.00	0.44
44:FM:236:SER:O	44:FM:240:ALA:N	2.51	0.44
44:GA:239:THR:O	44:GA:243:ARG:NH1	2.49	0.44
44:GA:330:ALA:HA	45:GD:174:LYS:NZ	2.33	0.44
45:GB:345:ILE:O	45:GB:345:ILE:HG23	2.18	0.44
44:GE:188:ILE:HG21	44:GE:395:PHE:CE1	2.53	0.44
45:GF:287:PRO:O	45:GF:290:THR:HG22	2.18	0.44
44:GG:11:GLN:HG3	44:GG:74:VAL:CG1	2.35	0.44
44:GG:271:SER:HB3	44:GG:301:MET:HA	2.00	0.44
45:GH:251:ARG:O	45:GH:255:VAL:HG23	2.18	0.44
45:GH:385:PHE:CE2	45:GH:412:GLU:HB2	2.52	0.44
44:GI:14:ILE:HD11	44:GI:69:ASP:CB	2.44	0.44
45:GJ:32:PRO:HG3	45:GJ:81:PHE:CE1	2.53	0.44
45:GJ:86:ARG:HD2	45:HJ:281:TYR:HB3	2.00	0.44
44:GK:235:ILE:O	44:GK:239:THR:HG22	2.18	0.44
44:GK:268:MET:HG2	44:GK:378:ILE:CG2	2.48	0.44
44:GK:280:LYS:HA	44:GK:283:HIS:CD2	2.53	0.44
45:GL:242:PHE:HB3	45:GL:243:PRO:HD2	1.98	0.44
45:GL:305:PRO:HA	45:GL:373:ALA:CB	2.46	0.44
45:GL:318:ARG:HG3	45:GL:364:ALA:O	2.17	0.44
44:GM:7:ILE:HG23	44:GM:66:VAL:HG11	1.99	0.44
45:GN:389:PHE:O	45:GN:392:LYS:N	2.37	0.44
45:HB:272:PRO:CG	45:HB:289:LEU:HD21	2.48	0.44
45:HD:217:LEU:CD1	45:HD:220:PRO:HA	2.48	0.44
44:HE:3:GLU:N	44:HE:3:GLU:OE1	2.50	0.44
44:HE:205:ASP:OD2	44:HE:304:LYS:HB3	2.18	0.44
44:HE:250:VAL:O	44:HE:250:VAL:HG13	2.17	0.44
44:HE:326:LYS:NZ	45:HH:208:TYR:CG	2.85	0.44
44:HE:362:VAL:HG13	44:HE:362:VAL:O	2.17	0.44
45:HF:171:PRO:HG3	45:HF:181:GLU:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HF:211:CYS:SG	45:HF:220:PRO:HG3	2.58	0.44
44:HG:404:PHE:CD1	45:HH:259:PRO:HA	2.52	0.44
44:HI:209:ILE:HA	44:HI:212:ILE:HB	2.00	0.44
44:HI:258:ASN:OD1	45:HL:179:VAL:HG22	2.17	0.44
45:HJ:237:THR:CG2	45:HJ:241:ARG:HH21	2.24	0.44
45:HL:293:MET:HE2	45:HL:365:VAL:CG1	2.44	0.44
44:HM:19:ALA:CA	44:HM:22:GLU:OE1	2.65	0.44
44:HM:248:LEU:HD21	44:HM:353:VAL:O	2.17	0.44
44:HM:317:MET:HE3	44:HM:351:PHE:HD2	1.83	0.44
45:HN:16:ILE:HG21	45:HN:136:THR:HB	2.00	0.44
45:HN:203:ASP:O	45:HN:207:LEU:HG	2.18	0.44
45:IB:3:GLU:HB2	45:IB:49:VAL:CA	2.46	0.44
45:IB:313:ALA:CB	45:IB:349:ILE:HG23	2.48	0.44
44:IC:30:ILE:HD12	44:IC:53:PHE:CZ	2.53	0.44
44:IC:229:ARG:CZ	44:IC:229:ARG:HB2	2.47	0.44
45:ID:332:ASN:O	45:ID:336:LYS:HG2	2.18	0.44
44:IE:183:GLU:CG	44:IE:184:PRO:HD3	2.46	0.44
44:IG:102:ASN:OD1	44:IG:105:ARG:HG3	2.18	0.44
45:IH:97:ALA:HB3	45:IH:143:THR:HB	2.00	0.44
45:IJ:3:GLU:OE2	45:IJ:127:CYS:HB2	2.18	0.44
45:IL:3:GLU:HG2	45:IL:3:GLU:O	2.16	0.44
45:IL:309:ARG:HA	45:IL:340:TYR:O	2.17	0.44
44:IM:115:VAL:HG22	44:IM:119:LEU:HD21	1.99	0.44
45:IN:62:ARG:HG3	45:IN:62:ARG:O	2.17	0.44
45:IN:73:MET:HE1	45:IN:92:PHE:CB	2.48	0.44
44:JA:254:GLU:HG3	45:JD:98:GLY:HA2	2.00	0.44
45:JB:113:ILE:HG13	45:JB:116:VAL:CG1	2.48	0.44
45:JB:267:MET:HE3	45:JB:374:ILE:CG1	2.41	0.44
45:JB:287:PRO:O	45:JB:290:THR:HG22	2.18	0.44
44:JC:14:ILE:HD11	44:JC:69:ASP:HB2	1.99	0.44
44:JC:221:ARG:HG2	45:JD:325:GLU:OE2	2.18	0.44
44:JC:423:GLU:HB3	44:NC:339:ARG:NH1	2.32	0.44
45:JD:58:ARG:HG3	45:JD:58:ARG:O	2.17	0.44
45:JD:173:PRO:HB2	45:JD:174:LYS:HD3	1.99	0.44
45:JD:202:ILE:CD1	45:JD:229:VAL:HG13	2.48	0.44
44:JE:96:LYS:HE2	44:JE:96:LYS:HA	2.00	0.44
45:JF:317:PHE:CB	45:JF:353:ILE:HD13	2.45	0.44
45:JH:1:MET:HE3	45:JH:129:CYS:HB3	2.00	0.44
44:JI:208:ALA:HB3	44:JI:302:MET:O	2.18	0.44
45:JJ:360:GLY:O	45:JJ:361:LEU:HD23	2.18	0.44
45:JL:73:MET:CE	45:JL:92:PHE:HB3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:23:LEU:CD1	44:JM:361:THR:HG23	2.48	0.44
45:JN:40:SER:OG	45:JN:43:GLN:HG3	2.18	0.44
45:JN:325:GLU:HA	45:JN:328:GLU:CD	2.37	0.44
45:KB:3:GLU:OE1	45:KB:3:GLU:N	2.50	0.44
45:KD:36:TYR:CZ	45:KD:38:GLY:HA3	2.53	0.44
45:KF:117:LEU:HA	45:KF:120:VAL:CG1	2.47	0.44
44:KG:56:THR:CG2	44:KG:60:LYS:HG2	2.48	0.44
45:KH:117:LEU:CA	45:KH:120:VAL:HG12	2.48	0.44
44:KI:256:GLN:O	44:KI:260:VAL:HG12	2.18	0.44
44:KI:306:ASP:OD2	44:KI:308:ARG:NH2	2.51	0.44
44:KI:326:LYS:HE2	44:KI:329:ASN:HD22	1.83	0.44
45:KJ:86:ARG:HH22	45:LJ:282:ARG:CD	2.31	0.44
45:KL:103:LYS:HB2	45:KL:103:LYS:HE2	1.71	0.44
45:KN:73:MET:HB3	45:KN:90:PHE:CE1	2.53	0.44
45:KN:217:LEU:HD23	45:KN:217:LEU:HA	1.87	0.44
45:KN:320:ARG:O	45:KN:320:ARG:CG	2.66	0.44
45:KN:330:MET:O	45:KN:333:VAL:HG12	2.18	0.44
44:LA:54:SER:HB3	44:LA:64:ARG:HH22	1.83	0.44
44:LA:183:GLU:HG2	44:LA:184:PRO:CD	2.48	0.44
44:LA:338:LYS:HE3	44:LA:338:LYS:CA	2.36	0.44
45:LB:274:THR:HG22	45:LB:275:SER:N	2.33	0.44
44:LC:183:GLU:HG2	44:LC:184:PRO:N	2.32	0.44
44:LC:238:LEU:HD11	44:LC:255:PHE:CE2	2.53	0.44
45:LD:32:PRO:HA	45:LD:81:PHE:CD1	2.53	0.44
44:LE:88:HIS:HB3	44:LE:91:GLN:CG	2.48	0.44
44:LG:288:VAL:CG1	44:LG:327:ASP:HB3	2.40	0.44
44:LG:394:LYS:HD3	45:LH:346:PRO:HG2	1.98	0.44
45:LH:156:ARG:CD	45:LH:164:MET:HG3	2.47	0.44
44:LI:183:GLU:HG2	44:LI:184:PRO:CD	2.47	0.44
44:LI:224:TYR:HA	44:LI:227:LEU:HD12	1.99	0.44
44:LI:387:VAL:HG23	44:LI:388:PHE:CD1	2.53	0.44
45:LJ:52:ASN:OD1	45:LJ:53:GLU:N	2.43	0.44
45:LJ:130:LEU:HD11	45:LJ:132:GLY:O	2.17	0.44
45:LL:49:VAL:HG11	45:LL:240:LEU:HD22	2.00	0.44
45:LL:362:LYS:HG2	45:LL:363:MET:CE	2.47	0.44
45:LN:99:ASN:CA	45:LN:142:GLY:HA3	2.47	0.44
44:MA:343:PHE:HZ	44:MA:351:PHE:CE2	2.35	0.44
45:MB:148:GLY:O	45:MB:152:ILE:HG12	2.17	0.44
45:MB:377:MET:HG2	45:MB:380:ARG:HH22	1.82	0.44
44:MC:137:VAL:O	44:MC:137:VAL:HG23	2.18	0.44
44:MC:185:TYR:OH	44:MC:403:ALA:O	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:103:PHE:HD2	44:ME:189:LEU:HD13	1.83	0.44
45:MF:112:LEU:HD23	45:MF:147:MET:HE1	1.99	0.44
45:MF:142:GLY:O	45:MF:146:GLY:N	2.51	0.44
45:MH:100:ASN:ND2	45:MH:401:GLU:OE1	2.48	0.44
45:MH:180:VAL:O	45:MH:180:VAL:HG22	2.17	0.44
44:MI:250:VAL:O	44:MI:250:VAL:HG23	2.18	0.44
45:MJ:101:TRP:HZ3	45:MJ:187:LEU:CG	2.30	0.44
45:MJ:238:CYS:SG	45:MJ:239:CYS:N	2.90	0.44
44:MK:137:VAL:O	44:MK:137:VAL:HG23	2.17	0.44
44:MK:417:GLU:HA	44:MK:420:GLU:OE1	2.17	0.44
44:MM:209:ILE:HA	44:MM:212:ILE:CG2	2.47	0.44
44:MM:276:ILE:HG12	44:MM:281:ALA:HA	1.99	0.44
45:MN:67:ASP:O	45:MN:73:MET:HE1	2.18	0.44
45:MN:100:ASN:CG	45:MN:103:LYS:H	2.21	0.44
45:MN:378:PHE:O	45:MN:382:ALA:N	2.37	0.44
44:NA:133:GLN:HB3	44:NA:252:ILE:CG2	2.48	0.44
44:NA:274:PRO:HD2	44:NA:374:ALA:HB2	2.00	0.44
44:NA:403:ALA:HB2	45:NB:344:TRP:CZ3	2.53	0.44
45:NB:240:LEU:CD2	45:NB:250:LEU:HD11	2.48	0.44
45:ND:211:CYS:SG	45:ND:212:PHE:N	2.91	0.44
44:NE:6:SER:O	44:NE:7:ILE:HD13	2.17	0.44
44:NE:175:PRO:HG2	44:NE:304:LYS:HG2	2.00	0.44
45:NF:215:LEU:O	45:NF:216:LYS:HG2	2.18	0.44
44:NG:320:ARG:CZ	44:NG:360:PRO:CA	2.95	0.44
45:NH:15:GLN:O	45:NH:18:ALA:HB3	2.17	0.44
45:NH:222:TYR:O	45:NH:226:ASN:ND2	2.29	0.44
44:NK:80:THR:C	44:NK:84:ARG:NH1	2.71	0.44
44:NK:145:THR:HG21	46:NK:501:GTP:O3G	2.18	0.44
44:NK:230:LEU:O	44:NK:234:VAL:HG23	2.17	0.44
44:NK:326:LYS:HD2	45:NN:220:PRO:HG3	1.96	0.44
44:NK:332:ILE:HG23	44:NK:351:PHE:HD2	1.82	0.44
45:NL:166:THR:HG23	45:NL:199:CYS:HA	2.00	0.44
44:NM:155:GLU:HG2	44:NM:197:HIS:CE1	2.53	0.44
44:NM:241:SER:HB3	44:NM:250:VAL:HG12	1.98	0.44
45:NN:131:GLN:HA	45:NN:162:ARG:NH1	2.33	0.44
44:OA:247:ALA:HB3	44:OA:355:ILE:HB	1.98	0.44
44:OA:258:ASN:C	44:OA:259:LEU:HD23	2.38	0.44
44:OA:295:ALA:HB1	44:OA:377:MET:SD	2.57	0.44
45:OB:329:GLN:HA	45:OB:332:ASN:ND2	2.28	0.44
45:OD:274:THR:HG23	45:OD:278:SER:O	2.16	0.44
44:OE:69:ASP:OD2	44:OE:74:VAL:HG21	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:119:LEU:CD1	44:OE:156:ARG:HG3	2.43	0.44
45:OF:390:ARG:HD2	45:OF:391:ARG:HG2	2.00	0.44
44:OG:175:PRO:HG3	44:OG:390:ARG:NE	2.33	0.44
45:OH:1:MET:CE	45:OH:2:ARG:HB2	2.48	0.44
45:OH:65:LEU:HB2	45:OH:90:PHE:CD1	2.52	0.44
44:OI:11:GLN:CD	44:OI:74:VAL:HG11	2.38	0.44
44:OI:234:VAL:HG22	44:OI:272:TYR:HB2	1.99	0.44
45:OJ:15:GLN:O	45:OJ:18:ALA:HB3	2.18	0.44
45:OJ:143:THR:N	48:OJ:501:GDP:PB	2.91	0.44
45:OJ:258:ILE:HD12	45:OJ:258:ILE:H	1.83	0.44
45:OJ:371:SER:O	45:OJ:422:TYR:OH	2.30	0.44
44:OK:1:MET:HE1	45:ON:94:GLN:HG3	1.99	0.44
44:OK:115:VAL:CB	44:OK:152:LEU:HD23	2.46	0.44
44:OK:221:ARG:NE	44:OK:221:ARG:HA	2.33	0.44
44:OM:231:ILE:O	44:OM:234:VAL:HG12	2.17	0.44
44:PA:243:ARG:HG3	44:PA:244:PHE:HD2	1.82	0.44
45:PB:14:ASN:OD1	45:PB:65:LEU:HG	2.18	0.44
44:PC:5:ILE:CD1	44:PC:132:LEU:HD11	2.48	0.44
44:PC:35:GLN:N	44:PC:35:GLN:OE1	2.50	0.44
44:PC:271:SER:C	44:PC:302:MET:HE1	2.38	0.44
44:PE:104:ALA:CB	44:PE:411:GLU:HB2	2.48	0.44
44:PE:136:LEU:CD2	44:PE:167:LEU:HB2	2.48	0.44
44:PE:239:THR:OG1	44:PE:243:ARG:NH2	2.49	0.44
44:PE:318:MET:HE2	44:PE:356:ASN:ND2	2.33	0.44
44:PG:238:LEU:HD21	44:PG:255:PHE:HE2	1.82	0.44
44:PI:210:TYR:CE1	44:PI:227:LEU:HD11	2.53	0.44
45:PJ:321:MET:HE2	45:PJ:326:VAL:CG2	2.48	0.44
45:PL:135:ILE:HG13	45:PL:152:ILE:CD1	2.48	0.44
45:PL:236:VAL:HG13	45:PL:253:LEU:CD2	2.47	0.44
45:PL:276:ARG:HA	45:PL:276:ARG:HD3	1.82	0.44
44:PM:114:ILE:O	44:PM:117:LEU:N	2.51	0.44
44:PM:377:MET:O	44:PM:378:ILE:HD13	2.17	0.44
44:QA:9:VAL:CG2	44:QA:68:LEU:HB2	2.48	0.44
44:QA:21:TRP:O	44:QA:24:PHE:N	2.50	0.44
44:QA:269:LEU:H	44:QA:269:LEU:HD23	1.82	0.44
45:QB:254:ALA:HB1	45:QB:258:ILE:HD13	2.00	0.44
44:QC:132:LEU:HD22	44:QC:164:LYS:HG2	2.00	0.44
44:QC:385:ALA:O	44:QC:388:PHE:N	2.50	0.44
45:QD:16:ILE:HD12	45:QD:16:ILE:H	1.83	0.44
45:QD:83:GLN:HA	45:QD:83:GLN:OE1	2.17	0.44
45:QD:172:SER:HA	45:QD:377:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QD:380:ARG:O	45:QD:384:GLN:HG3	2.17	0.44
45:QF:97:ALA:HA	45:QF:103:LYS:CD	2.43	0.44
45:QF:403:MET:HA	45:QF:407:GLU:OE2	2.16	0.44
45:QF:409:THR:HG23	45:QF:410:GLU:N	2.33	0.44
44:QG:23:LEU:HD11	44:QG:233:GLN:OE1	2.18	0.44
45:QH:67:ASP:HB2	45:QH:73:MET:SD	2.58	0.44
45:QH:167:PHE:CE1	45:QH:200:MET:CE	2.99	0.44
44:QI:276:ILE:CD1	44:QI:281:ALA:HA	2.47	0.44
45:QJ:202:ILE:CD1	45:QJ:229:VAL:HG13	2.47	0.44
45:QJ:390:ARG:HG3	45:QJ:391:ARG:N	2.33	0.44
44:QK:4:VAL:HG22	44:QK:5:ILE:N	2.33	0.44
44:QK:305:CYS:SG	44:QK:384:ILE:HA	2.58	0.44
45:QL:67:ASP:O	45:QL:92:PHE:HA	2.18	0.44
45:QL:86:ARG:HD2	45:RL:281:TYR:HD2	1.83	0.44
45:QL:136:THR:HG23	45:QL:136:THR:O	2.17	0.44
45:QL:286:VAL:N	45:QL:287:PRO:CD	2.81	0.44
44:QM:5:ILE:HD12	44:QM:132:LEU:CD1	2.47	0.44
44:RA:111:GLY:HA2	44:RA:149:LEU:HD11	2.00	0.44
44:RA:175:PRO:HG2	44:RA:304:LYS:CG	2.48	0.44
44:RA:298:PRO:HB3	44:RA:307:PRO:HG2	2.00	0.44
45:RB:64:ILE:HD11	45:RB:123:GLU:OE2	2.18	0.44
44:RE:6:SER:HB2	44:RE:8:HIS:CE1	2.53	0.44
44:RE:7:ILE:CG2	44:RE:137:VAL:HG23	2.47	0.44
44:RE:98:ASP:OD1	44:RE:99:ALA:N	2.51	0.44
45:RF:20:PHE:CE2	45:RF:233:MET:HE3	2.52	0.44
45:RF:217:LEU:CD1	45:RF:220:PRO:HG3	2.48	0.44
44:RG:345:ASP:CG	44:RG:438:GLU:HB3	2.38	0.44
45:RH:4:ILE:HG22	45:RH:132:GLY:N	2.32	0.44
44:RI:226:ASN:O	44:RI:229:ARG:N	2.45	0.44
45:RJ:8:GLN:NE2	45:RJ:14:ASN:OD1	2.51	0.44
45:RJ:176:SER:HB2	45:RJ:181:GLU:OE1	2.18	0.44
45:RL:210:ILE:HD12	45:RL:214:THR:HG21	1.98	0.44
45:RL:245:GLN:N	45:RL:353:ILE:O	2.51	0.44
45:RL:260:PHE:HB3	45:RL:261:PRO:CD	2.30	0.44
45:RL:264:HIS:HA	45:RL:266:PHE:CZ	2.53	0.44
44:RM:3:GLU:OE1	44:RM:3:GLU:N	2.51	0.44
44:RM:23:LEU:HD23	44:RM:236:SER:HB2	1.99	0.44
44:RM:67:PHE:HB2	44:RM:92:LEU:HG	1.99	0.44
44:RM:224:TYR:HD1	44:RM:227:LEU:CD1	2.27	0.44
44:SA:93:ILE:HD12	44:SA:93:ILE:H	1.82	0.44
44:SA:184:PRO:HG2	44:SA:398:MET:HE1	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:257:LEU:HD23	45:SB:368:VAL:HG12	1.99	0.44
45:SB:290:THR:HG23	45:SB:291:GLN:N	2.33	0.44
44:SC:2:ARG:HB2	44:SC:133:GLN:CG	2.48	0.44
44:SC:145:THR:HG21	46:SC:501:GTP:PG	2.58	0.44
44:SC:362:VAL:O	44:SC:362:VAL:HG13	2.18	0.44
44:SC:389:SER:O	44:SC:392:ASP:HB3	2.18	0.44
44:SG:176:GLN:HG2	44:SG:177:VAL:HG23	2.00	0.44
45:SH:49:VAL:HG21	45:SH:240:LEU:CD2	2.38	0.44
45:SH:278:SER:O	45:SH:280:GLN:N	2.51	0.44
44:SI:275:ILE:C	44:SI:276:ILE:HD12	2.37	0.44
45:SJ:313:ALA:O	45:SJ:349:ILE:HA	2.17	0.44
44:SK:11:GLN:HB3	46:SK:501:GTP:O2A	2.17	0.44
44:SK:204:LEU:HD21	44:SK:302:MET:CE	2.48	0.44
45:SL:311:LEU:O	45:SL:312:THR:OG1	2.26	0.44
44:SM:66:VAL:HG11	44:SM:122:ILE:CD1	2.45	0.44
44:SM:437:ILE:O	44:SM:437:ILE:HG13	2.17	0.44
45:SN:61:PRO:CD	45:SN:84:LEU:HB3	2.48	0.44
45:SN:169:VAL:CG2	45:SN:202:ILE:HB	2.30	0.44
45:SN:286:VAL:HB	45:SN:287:PRO:HD3	2.00	0.44
44:TA:21:TRP:HZ2	44:TA:65:ALA:HB2	1.83	0.44
44:TA:93:ILE:HD12	44:TA:93:ILE:H	1.82	0.44
44:TA:183:GLU:HG2	44:TA:184:PRO:N	2.33	0.44
44:TA:215:ARG:HH22	44:TA:299:ALA:CB	2.31	0.44
44:TA:320:ARG:NH2	44:TA:374:ALA:HB3	2.32	0.44
44:TA:386:GLU:O	44:TA:390:ARG:HG2	2.18	0.44
45:TB:61:PRO:HG2	45:TB:84:LEU:HB3	1.99	0.44
45:TB:201:VAL:HG11	45:TB:374:ILE:CD1	2.48	0.44
45:TB:215:LEU:HA	45:TB:275:SER:HB3	2.00	0.44
44:TC:32:PRO:HA	44:TC:83:TYR:CD1	2.52	0.44
44:TC:171:ILE:HA	44:TC:204:LEU:O	2.17	0.44
44:TC:243:ARG:O	44:TC:244:PHE:HD1	2.00	0.44
44:TC:248:LEU:CD1	48:TD:501:GDP:H3'	2.46	0.44
45:TD:1:MET:C	45:TD:2:ARG:HG2	2.38	0.44
45:TD:210:ILE:HD11	45:TD:299:MET:O	2.18	0.44
44:TE:93:ILE:HD12	44:TE:93:ILE:H	1.83	0.44
45:TF:1:MET:HE2	44:TG:96:LYS:HB3	1.98	0.44
45:TF:35:THR:HG22	45:TF:37:HIS:CE1	2.53	0.44
45:TF:249:ASP:O	45:TF:253:LEU:HD23	2.17	0.44
45:TH:210:ILE:O	45:TH:214:THR:OG1	2.33	0.44
45:TH:262:ARG:HH12	45:TH:422:TYR:HD1	1.64	0.44
45:TH:313:ALA:O	45:TH:349:ILE:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:211:ASP:OD2	44:TI:304:LYS:NZ	2.23	0.44
44:TK:67:PHE:O	44:TK:68:LEU:HD12	2.18	0.44
44:TK:102:ASN:OD1	44:TK:105:ARG:N	2.51	0.44
44:TK:134:GLY:HA3	44:TK:165:SER:O	2.18	0.44
44:TK:204:LEU:CD2	44:TK:302:MET:CE	2.95	0.44
45:TL:261:PRO:HD3	44:TM:406:HIS:CE1	2.52	0.44
45:TL:268:ILE:HG13	45:TL:300:MET:CE	2.48	0.44
44:TM:112:LYS:N	44:TM:112:LYS:HD3	2.32	0.44
44:TM:248:LEU:CD2	44:TM:354:GLY:HA2	2.48	0.44
44:TM:291:ILE:HG13	44:TM:292:THR:N	2.33	0.44
44:UA:31:GLN:HE21	44:UA:35:GLN:HB2	1.83	0.44
44:UA:156:ARG:HA	44:UA:159:VAL:HG12	1.99	0.44
45:UB:217:LEU:HD23	45:UB:217:LEU:H	1.83	0.44
44:UC:79:ARG:O	44:UC:84:ARG:HB3	2.17	0.44
44:UE:205:ASP:OD1	44:UE:303:ALA:HA	2.18	0.44
45:UF:7:ILE:HB	45:UF:135:ILE:HD12	1.99	0.44
44:UG:53:PHE:HD2	44:UG:63:PRO:HA	1.82	0.44
44:UG:105:ARG:HG2	44:UG:411:GLU:OE1	2.18	0.44
44:UI:21:TRP:CZ2	44:UI:65:ALA:HB2	2.53	0.44
44:UI:105:ARG:NH2	44:UI:110:ILE:HD13	2.32	0.44
44:UI:252:ILE:HA	44:UI:255:PHE:CZ	2.53	0.44
44:UI:289:ALA:O	44:UI:292:THR:HG22	2.17	0.44
44:UI:294:SER:HA	44:UI:297:GLU:OE2	2.17	0.44
45:UJ:267:MET:HE1	45:UJ:374:ILE:HG22	1.97	0.44
45:UL:61:PRO:HD2	45:UL:84:LEU:HB3	1.99	0.44
44:UM:320:ARG:HH11	44:UM:320:ARG:CG	2.31	0.44
44:UM:385:ALA:HB2	44:UM:432:TYR:CD2	2.47	0.44
45:UN:7:ILE:HB	45:UN:135:ILE:HD11	1.97	0.44
45:UN:390:ARG:HG3	45:UN:391:ARG:N	2.33	0.44
44:VA:10:GLY:O	44:VA:14:ILE:HG13	2.18	0.44
44:VA:34:GLY:O	44:VA:60:LYS:HA	2.18	0.44
44:VA:99:ALA:CB	44:VA:145:THR:HA	2.48	0.44
44:VA:268:MET:HB2	44:VA:379:SER:O	2.18	0.44
44:VC:21:TRP:CH2	44:VC:63:PRO:HB3	2.52	0.44
45:VD:61:PRO:HD3	45:VD:84:LEU:HB3	2.00	0.44
45:VD:235:GLY:HA3	45:VD:366:THR:OG1	2.18	0.44
44:VE:252:ILE:HA	44:VE:255:PHE:CE2	2.52	0.44
44:VE:268:MET:HB3	44:VE:380:ASN:CB	2.48	0.44
44:VE:271:SER:HB2	44:VE:377:MET:SD	2.58	0.44
44:VG:89:PRO:HD3	44:WG:280:LYS:HD2	1.99	0.44
44:VG:222:PRO:HA	44:VG:226:ASN:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:254:GLU:HG3	45:VJ:98:GLY:HA2	1.99	0.44
44:VI:11:GLN:HA	44:VI:14:ILE:HD12	1.98	0.44
44:VI:320:ARG:HG3	44:VI:374:ALA:HB3	1.98	0.44
45:VJ:317:PHE:HD2	45:VJ:321:MET:SD	2.41	0.44
45:VJ:423:GLN:O	45:VJ:426:GLN:N	2.46	0.44
44:VK:63:PRO:HB2	44:VK:87:PHE:CD2	2.53	0.44
44:VK:296:PHE:HE1	44:VK:377:MET:CE	2.31	0.44
45:VL:28:HIS:HD1	45:VL:43:GLN:HB3	1.83	0.44
45:VL:175:VAL:HG23	45:VL:175:VAL:O	2.18	0.44
44:VM:252:ILE:HA	44:VM:255:PHE:CD2	2.53	0.44
44:VM:255:PHE:O	44:VM:259:LEU:HB2	2.18	0.44
44:VM:288:VAL:HG21	44:VM:327:ASP:HB3	1.98	0.44
45:VN:175:VAL:O	45:VN:175:VAL:HG23	2.18	0.44
45:VN:192:LEU:CD1	45:VN:196:ALA:HB2	2.48	0.44
44:WA:31:GLN:CD	44:WA:31:GLN:H	2.21	0.44
44:WA:72:PRO:HG3	44:WA:95:GLY:O	2.17	0.44
44:WA:176:GLN:HG3	45:WB:331:LEU:HD21	1.99	0.44
45:WB:35:THR:HG23	45:WB:37:HIS:CE1	2.53	0.44
45:WB:60:VAL:O	45:WB:62:ARG:NH2	2.47	0.44
45:WB:105:HIS:NE2	45:WB:150:LEU:HB2	2.33	0.44
45:WB:286:VAL:N	45:WB:287:PRO:CD	2.81	0.44
44:WC:219:ILE:HG21	44:WC:222:PRO:HB3	2.00	0.44
45:WD:216:LYS:CG	45:WD:275:SER:HB3	2.48	0.44
45:WD:372:THR:HA	45:WD:422:TYR:OH	2.18	0.44
45:WF:22:GLU:OE2	45:WF:80:PRO:HG2	2.18	0.44
45:WF:99:ASN:HA	45:WF:142:GLY:CA	2.48	0.44
45:WF:119:VAL:HG22	45:WF:123:GLU:CG	2.46	0.44
45:WF:285:THR:O	45:WF:287:PRO:CD	2.66	0.44
44:WG:105:ARG:CZ	45:WH:251:ARG:HH22	2.31	0.44
44:WG:261:PRO:HB2	44:WG:262:TYR:CE2	2.53	0.44
45:WH:238:CYS:SG	45:WH:239:CYS:N	2.91	0.44
45:WJ:36:TYR:CE2	45:WJ:44:LEU:HD21	2.53	0.44
45:WJ:105:HIS:CD2	45:WJ:150:LEU:HD12	2.53	0.44
45:WJ:135:ILE:O	45:WJ:167:PHE:N	2.43	0.44
44:WK:107:HIS:O	44:WK:108:TYR:HD1	2.01	0.44
44:WK:172:TYR:HB3	44:WK:173:PRO:CD	2.41	0.44
45:WL:98:GLY:O	45:WL:99:ASN:HB2	2.18	0.44
44:WM:175:PRO:CD	44:WM:304:LYS:HE2	2.48	0.44
44:WM:246:GLY:HA2	44:WM:357:TYR:CD2	2.51	0.44
3:OB:82:VAL:HG12	45:JH:355:ASP:OD2	2.18	0.44
11:OQ:30:ARG:HH21	44:AA:397:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0X:3:ARG:HD2	45:MD:15:GLN:HE21	1.82	0.44
2:1A:117:HIS:HE1	44:AC:357:TYR:CD1	2.35	0.44
19:1I:11:TYR:CE2	45:ID:48:ASN:HA	2.51	0.44
20:1J:50:LYS:CD	45:HD:53:GLU:HB3	2.46	0.44
20:1J:314:VAL:CG1	44:IK:372:MET:HE3	2.47	0.44
13:1T:127:GLU:H	44:AC:337:THR:HG23	1.83	0.44
27:1W:118:GLY:HA2	45:LF:276:ARG:HH22	1.81	0.44
2:2A:124:LEU:HD13	45:AJ:361:LEU:HD12	1.98	0.44
29:2F:83:ARG:HH21	45:GF:162:ARG:HH22	1.66	0.44
32:2I:116:LEU:HD23	44:GC:339:ARG:NH2	2.32	0.44
22:2L:766:LYS:HZ1	45:AL:41:ASP:HB3	1.81	0.44
14:2U:236:LEU:HB3	45:WJ:33:THR:HG22	1.99	0.44
16:2X:81:ARG:HD3	45:MJ:276:ARG:CD	1.98	0.44
16:3X:129:ILE:HD11	45:LL:55:THR:CG2	2.47	0.44
34:4F:147:HIS:CB	45:IN:80:PRO:HD3	2.48	0.44
35:4R:249:LEU:HD12	44:CE:370:LYS:HE2	1.93	0.44
37:5A:113:VAL:HG11	44:NA:370:LYS:HZ2	1.83	0.44
37:5D:39:ARG:O	44:KK:261:PRO:CD	2.64	0.44
37:5D:54:ARG:HD3	44:KK:439:THR:N	2.21	0.44
37:5D:110:ARG:CB	44:NM:280:LYS:HA	2.47	0.44
38:5E:60:TRP:CH2	45:OB:274:THR:HG22	2.52	0.44
38:5E:213:TYR:HB2	45:LF:392:LYS:HE2	2.00	0.44
38:5F:141:CYS:HA	38:5F:144:LEU:HD23	2.00	0.44
39:5J:22:TRP:CE2	45:NF:343:GLU:HB3	2.51	0.44
39:5K:25:VAL:HA	39:5K:28:LYS:CE	2.48	0.44
39:5K:36:TYR:CE2	44:NK:309:HIS:HD2	2.36	0.44
11:5Q:94:LEU:HD12	11:5Q:95:ASP:H	1.82	0.44
36:5S:224:ILE:HG23	36:5S:228:TYR:HE2	1.83	0.44
41:6G:185:TYR:CZ	44:UG:116:ASP:HA	2.53	0.44
11:6Q:77:VAL:CG1	11:6Q:166:TYR:CE2	3.01	0.44
35:6R:118:LEU:CD1	35:6R:128:HIS:C	2.76	0.44
35:7R:169:ILE:O	35:7R:179:ARG:HD2	2.17	0.44
35:7R:321:MET:CE	45:CB:361:LEU:HD21	2.48	0.44
35:7R:417:TYR:CD1	44:EA:370:LYS:HD2	2.53	0.44
35:7R:452:THR:HG21	35:7R:473:ARG:NE	2.31	0.44
42:8L:13:UNK:O	42:8L:17:UNK:N	2.51	0.44
44:AA:306:ASP:HB3	44:AA:309:HIS:CE1	2.53	0.44
45:AB:322:SER:O	45:AB:326:VAL:HG23	2.17	0.44
44:AC:236:SER:HA	44:AC:239:THR:HG22	2.00	0.44
45:AD:6:HIS:HD1	45:AD:21:TRP:HE1	1.65	0.44
45:AD:31:ASP:HB3	45:AD:32:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AD:193:VAL:HA	45:AD:264:HIS:HE2	1.81	0.44
45:AJ:263:LEU:HG	45:AJ:422:TYR:HD1	1.83	0.44
45:AJ:404:ASP:OD1	45:AJ:407:GLU:HG3	2.17	0.44
44:AK:271:SER:HB2	44:AK:377:MET:HE2	2.00	0.44
44:AK:320:ARG:HH12	44:AK:360:PRO:N	2.16	0.44
44:AK:393:HIS:CE1	44:AK:397:LEU:HD21	2.53	0.44
44:BA:79:ARG:HH21	44:BA:92:LEU:CB	2.31	0.44
44:BA:188:ILE:HG23	44:BA:425:LEU:HD11	1.98	0.44
44:BA:226:ASN:O	44:BA:230:LEU:HD23	2.17	0.44
44:BC:229:ARG:HH11	44:BC:229:ARG:HG2	1.82	0.44
44:BE:320:ARG:HD2	44:BE:360:PRO:CD	2.46	0.44
46:BE:501:GTP:O1G	45:BF:252:LYS:NZ	2.44	0.44
44:BG:224:TYR:HE1	45:BH:323:THR:CB	2.31	0.44
45:BH:113:ILE:CA	45:BH:116:VAL:HG12	2.47	0.44
44:BI:223:THR:O	44:BI:227:LEU:HG	2.17	0.44
45:BJ:382:ALA:HB2	45:BJ:415:MET:HE1	2.00	0.44
45:BJ:403:MET:CE	45:BJ:407:GLU:HB2	2.48	0.44
44:BK:102:ASN:O	44:BK:105:ARG:HB2	2.17	0.44
44:BK:247:ALA:HB2	44:BK:357:TYR:OH	2.18	0.44
45:BL:68:LEU:HD11	45:BL:108:GLU:CG	2.48	0.44
45:BL:392:LYS:O	45:BL:395:LEU:HB3	2.18	0.44
44:BM:5:ILE:HD12	44:BM:135:PHE:CE2	2.53	0.44
44:BM:70:LEU:HA	44:BM:95:GLY:HA3	1.98	0.44
45:BN:375:GLN:NE2	45:BN:376:GLU:HG2	2.33	0.44
44:CA:124:LYS:O	44:CA:127:ASP:HB2	2.18	0.44
45:CB:63:ALA:O	45:CB:89:ASN:HB3	2.18	0.44
45:CD:166:THR:OG1	45:CD:199:CYS:HA	2.17	0.44
44:CE:9:VAL:O	44:CE:139:ASN:HA	2.17	0.44
44:CE:35:GLN:HE22	44:CE:59:GLY:HA2	1.83	0.44
44:CE:224:TYR:O	44:CE:227:LEU:N	2.51	0.44
44:CE:292:THR:HG21	44:CE:331:SER:HB2	1.99	0.44
44:CE:423:GLU:O	44:CE:426:ALA:HB3	2.18	0.44
45:CF:163:ILE:HG23	45:CF:251:ARG:HH12	1.82	0.44
45:CF:165:GLU:OE2	45:CF:250:LEU:HD13	2.18	0.44
44:CG:259:LEU:HD21	44:CG:316:SER:CB	2.48	0.44
44:CG:268:MET:HB3	44:CG:380:ASN:CB	2.44	0.44
45:CH:256:ASN:CB	44:CI:181:VAL:HG12	2.42	0.44
44:CI:195:LEU:HD21	44:CI:264:ARG:CZ	2.47	0.44
44:CI:212:ILE:CD1	44:CI:300:ASN:HA	2.48	0.44
45:CJ:80:PRO:O	45:CJ:81:PHE:HB2	2.17	0.44
45:CJ:266:PHE:HA	45:CJ:369:GLY:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:30:ILE:HA	45:CL:35:THR:O	2.17	0.44
45:CN:211:CYS:SG	45:CN:217:LEU:HD21	2.58	0.44
44:DA:1:MET:HE3	45:DB:94:GLN:HG2	1.99	0.44
44:DA:102:ASN:CG	44:DA:105:ARG:HG3	2.38	0.44
44:DA:185:TYR:HE2	44:DA:404:PHE:HB2	1.83	0.44
44:DA:226:ASN:O	44:DA:230:LEU:HD23	2.18	0.44
44:DA:318:MET:O	44:DA:375:VAL:HG23	2.17	0.44
45:DB:213:ARG:HD2	45:DB:214:THR:HG23	1.98	0.44
45:DB:261:PRO:HD3	44:DC:406:HIS:CG	2.53	0.44
45:DB:317:PHE:CG	45:DB:365:VAL:HG22	2.53	0.44
44:DC:141:VAL:HG21	44:DC:172:TYR:CE1	2.53	0.44
44:DC:147:SER:O	44:DC:150:GLY:N	2.49	0.44
45:DD:146:GLY:O	45:DD:149:THR:HG22	2.18	0.44
44:DG:268:MET:SD	44:DG:380:ASN:HB2	2.58	0.44
45:DL:101:TRP:HE1	45:DL:146:GLY:HA2	1.83	0.44
45:DL:103:LYS:O	45:DL:107:THR:OG1	2.34	0.44
45:DL:403:MET:HA	45:DL:403:MET:CE	2.44	0.44
44:DM:240:ALA:HB1	44:DM:356:ASN:HD21	1.82	0.44
45:DN:238:CYS:SG	45:DN:239:CYS:N	2.91	0.44
44:EA:215:ARG:NH2	44:EA:299:ALA:HB1	2.33	0.44
44:EA:269:LEU:H	44:EA:269:LEU:HD23	1.83	0.44
44:EC:107:HIS:O	44:EC:112:LYS:HG3	2.17	0.44
44:EC:261:PRO:O	45:ED:394:PHE:HA	2.18	0.44
44:EC:319:TYR:CE2	44:EC:328:VAL:HG22	2.52	0.44
45:ED:21:TRP:CE3	45:ED:61:PRO:HB3	2.51	0.44
45:ED:72:THR:CG2	45:ED:73:MET:N	2.79	0.44
45:ED:163:ILE:HD11	45:ED:250:LEU:HD22	1.98	0.44
45:ED:186:THR:O	45:ED:189:VAL:HG12	2.17	0.44
44:EE:243:ARG:NH1	44:EE:244:PHE:HE2	2.14	0.44
44:EE:425:LEU:N	44:EE:425:LEU:HD22	2.33	0.44
45:EF:319:GLY:HA2	45:EF:355:ASP:O	2.17	0.44
45:EF:378:PHE:CA	45:EF:381:VAL:HG12	2.42	0.44
44:EG:237:SER:HA	44:EG:320:ARG:NH1	2.33	0.44
44:EI:124:LYS:HE2	44:EI:124:LYS:HB2	1.83	0.44
44:EI:166:LYS:HB3	44:EI:166:LYS:HE2	1.80	0.44
44:EI:224:TYR:HD1	44:EI:227:LEU:HD12	1.83	0.44
44:EI:261:PRO:HA	45:EJ:394:PHE:HD2	1.82	0.44
44:EI:280:LYS:HG2	44:EI:280:LYS:O	2.18	0.44
44:EI:319:TYR:HB2	44:EI:355:ILE:HA	2.00	0.44
44:EK:269:LEU:CB	44:EK:303:ALA:HB3	2.41	0.44
45:EN:80:PRO:O	45:EN:81:PHE:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:124:ALA:HB1	45:EN:130:LEU:CD2	2.47	0.44
45:EN:127:CYS:SG	45:EN:130:LEU:HD13	2.58	0.44
45:EN:180:VAL:CG2	45:EN:183:TYR:HB3	2.48	0.44
45:FB:86:ARG:HD3	45:GB:281:TYR:HB3	1.99	0.44
45:FB:246:LEU:N	45:FB:353:ILE:O	2.38	0.44
45:FB:260:PHE:HB3	45:FB:261:PRO:HD2	2.00	0.44
45:FB:378:PHE:HB2	45:FB:419:VAL:HG21	1.99	0.44
44:FE:182:VAL:O	44:FE:182:VAL:HG22	2.18	0.44
45:FH:266:PHE:CD1	45:FH:370:ASN:HB2	2.53	0.44
44:FI:268:MET:CG	44:FI:380:ASN:HB2	2.36	0.44
44:FK:2:ARG:O	44:FK:51:THR:HA	2.17	0.44
45:FL:257:LEU:HB3	45:FL:266:PHE:CZ	2.53	0.44
44:FM:17:GLY:O	44:FM:20:CYS:HB3	2.17	0.44
44:FM:270:SER:CB	44:FM:378:ILE:HD13	2.48	0.44
45:FN:36:TYR:CE2	45:FN:44:LEU:HG	2.53	0.44
45:FN:51:TYR:HB3	45:FN:59:TYR:HB3	2.00	0.44
45:FN:382:ALA:O	45:FN:385:PHE:N	2.51	0.44
45:GB:74:ASP:OD1	45:GB:77:ARG:NH2	2.51	0.44
45:GB:121:ARG:HH22	45:GB:158:GLU:CD	2.21	0.44
44:GC:203:MET:HE1	44:GC:267:PHE:HD1	1.82	0.44
44:GC:241:SER:OG	44:GC:250:VAL:O	2.32	0.44
45:GD:135:ILE:HG21	45:GD:152:ILE:HD11	1.98	0.44
44:GE:195:LEU:HD21	44:GE:428:LEU:HD21	2.00	0.44
44:GE:322:ASP:OD1	44:GE:322:ASP:C	2.56	0.44
45:GF:144:GLY:N	48:GF:501:GDP:O1B	2.51	0.44
45:GF:295:ASP:CG	45:GF:297:LYS:HG2	2.37	0.44
44:GG:132:LEU:HD21	44:GG:135:PHE:CE2	2.53	0.44
44:GG:270:SER:C	44:GG:302:MET:HE3	2.38	0.44
45:GH:68:LEU:N	45:GH:68:LEU:HD22	2.32	0.44
45:GH:189:VAL:CG1	45:GH:415:MET:HE2	2.47	0.44
45:GJ:183:TYR:HD2	45:GJ:398:TYR:CE2	2.36	0.44
45:GJ:267:MET:HB2	45:GJ:301:CYS:SG	2.57	0.44
44:GK:38:SER:HA	44:GK:41:THR:OG1	2.18	0.44
45:GL:200:MET:HE3	45:GL:266:PHE:CD2	2.53	0.44
44:GM:53:PHE:HB3	44:GM:61:HIS:HB3	1.99	0.44
44:GM:88:HIS:C	44:GM:91:GLN:HG2	2.38	0.44
45:GN:208:TYR:OH	45:GN:222:TYR:HE1	2.00	0.44
44:HA:288:VAL:HA	44:HA:291:ILE:CG1	2.34	0.44
44:HA:413:MET:HE1	44:HA:417:GLU:HG3	1.99	0.44
45:HB:178:THR:HG22	45:HB:180:VAL:N	2.30	0.44
45:HB:215:LEU:CA	45:HB:275:SER:HB3	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:242:PHE:HB3	45:HB:356:ILE:HG12	1.99	0.44
45:HB:362:LYS:HE2	45:HB:363:MET:CE	2.48	0.44
44:HC:176:GLN:HG2	44:HC:177:VAL:N	2.32	0.44
44:HC:303:ALA:O	44:HC:305:CYS:N	2.50	0.44
44:HI:69:ASP:OD1	44:HI:71:GLU:N	2.47	0.44
45:HJ:113:ILE:HD12	45:HJ:150:LEU:HD23	2.00	0.44
45:HJ:294:PHE:CE1	45:HJ:333:VAL:HG21	2.53	0.44
44:HK:176:GLN:HG2	45:HL:331:LEU:CD1	2.48	0.44
45:HL:31:ASP:HB3	45:HL:32:PRO:HD2	1.98	0.44
45:HL:62:ARG:O	45:HL:62:ARG:HG2	2.17	0.44
44:HM:408:TYR:O	44:HM:413:MET:HB2	2.18	0.44
45:IB:131:GLN:HE21	45:IB:250:LEU:HB2	1.83	0.44
45:IB:156:ARG:HD2	45:IB:164:MET:HE3	1.98	0.44
45:IB:319:GLY:HA2	45:IB:357:PRO:CG	2.48	0.44
44:IC:123:ARG:O	44:IC:123:ARG:HD2	2.18	0.44
44:IC:181:VAL:HG13	45:ID:256:ASN:ND2	2.27	0.44
44:IC:262:TYR:HB3	44:IC:263:PRO:HD2	2.00	0.44
44:IC:311:LYS:CE	44:IC:342:GLN:HG3	2.48	0.44
44:IC:317:MET:O	44:IC:353:VAL:HA	2.17	0.44
44:IE:107:HIS:NE2	44:IE:152:LEU:HB2	2.33	0.44
44:IE:326:LYS:NZ	45:IH:220:PRO:CD	2.81	0.44
45:IF:222:TYR:O	45:IF:226:ASN:ND2	2.45	0.44
45:IF:348:ASN:OD1	45:IF:349:ILE:HD12	2.17	0.44
44:IG:166:LYS:HE2	44:IG:197:HIS:O	2.18	0.44
45:IH:36:TYR:CD1	45:IH:44:LEU:HD21	2.53	0.44
45:IH:272:PRO:HB2	45:IH:282:ARG:HH22	1.82	0.44
45:IH:318:ARG:CD	45:IH:358:PRO:HG3	2.42	0.44
44:II:14:ILE:CD1	44:II:75:ILE:HD11	2.48	0.44
45:IJ:81:PHE:O	45:IJ:84:LEU:HD13	2.18	0.44
45:IJ:265:PHE:HE2	45:IJ:378:PHE:HZ	1.65	0.44
44:IK:259:LEU:HD21	44:IK:316:SER:HB3	1.99	0.44
44:IK:326:LYS:CE	45:IN:219:THR:HA	2.47	0.44
44:IM:63:PRO:HG3	44:IM:86:LEU:HD11	1.99	0.44
45:JB:42:LEU:HD11	45:JB:243:PRO:HG2	2.00	0.44
44:JC:27:GLU:O	44:JC:27:GLU:HG2	2.18	0.44
44:JC:77:GLU:OE2	44:JC:78:VAL:HG23	2.18	0.44
44:JC:296:PHE:CE2	44:JC:335:ILE:HG21	2.53	0.44
44:JE:183:GLU:N	44:JE:184:PRO:CD	2.78	0.44
45:JF:77:ARG:HA	45:JF:82:GLY:HA3	1.99	0.44
45:JF:206:ALA:O	45:JF:208:TYR:N	2.50	0.44
45:JF:292:GLN:HG3	45:JF:298:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JG:107:HIS:HB3	44:JG:108:TYR:CD2	2.53	0.44
44:JG:166:LYS:C	44:JG:167:LEU:HD12	2.39	0.44
44:JG:414:GLU:OE2	44:NG:215:ARG:NH2	2.45	0.44
45:JJ:76:VAL:HG13	45:JJ:77:ARG:N	2.33	0.44
45:JL:19:LYS:HD2	45:JL:227:HIS:ND1	2.32	0.44
45:JL:238:CYS:CB	45:JL:318:ARG:HE	2.31	0.44
45:JL:257:LEU:HA	45:JL:312:THR:OG1	2.17	0.44
44:JM:19:ALA:HB3	44:JM:228:ASN:HB3	2.00	0.44
44:JM:89:PRO:HD3	44:KM:283:HIS:ND1	2.33	0.44
45:JN:66:MET:CE	45:JN:151:LEU:HD13	2.41	0.44
45:JN:267:MET:CE	45:JN:371:SER:HB2	2.48	0.44
45:KB:4:ILE:O	45:KB:62:ARG:HD3	2.17	0.44
45:KB:6:HIS:O	45:KB:63:ALA:HB1	2.18	0.44
45:KB:73:MET:CE	45:KB:92:PHE:HB3	2.48	0.44
45:KB:105:HIS:ND1	45:KB:105:HIS:O	2.51	0.44
44:KC:24:PHE:HE1	44:KC:236:SER:HB2	1.83	0.44
44:KE:27:GLU:OE1	44:KE:243:ARG:NH2	2.44	0.44
44:KE:91:GLN:HG2	44:KE:92:LEU:CD1	2.48	0.44
44:KE:311:LYS:HE2	44:KE:342:GLN:NE2	2.33	0.44
45:KF:19:LYS:HB2	45:KF:22:GLU:HB3	1.99	0.44
45:KF:49:VAL:CG1	45:KF:241:ARG:HD3	2.47	0.44
44:KG:51:THR:HG22	44:KG:52:PHE:CD1	2.52	0.44
44:KG:317:MET:CE	44:KG:377:MET:HE3	2.47	0.44
45:KH:318:ARG:HG2	45:KH:318:ARG:NH1	2.33	0.44
44:KI:194:LEU:HD11	44:KI:267:PHE:HZ	1.83	0.44
44:KM:256:GLN:HE21	44:KM:257:THR:HG22	1.83	0.44
44:KM:340:THR:O	44:KM:341:ILE:HD13	2.17	0.44
44:LA:16:VAL:HG22	44:LA:228:ASN:OD1	2.17	0.44
44:LA:51:THR:OG1	44:LA:243:ARG:HB3	2.17	0.44
44:LA:220:GLU:C	44:LA:221:ARG:HD3	2.38	0.44
44:LA:370:LYS:HD3	44:LA:370:LYS:HA	1.69	0.44
45:LB:108:GLU:O	45:LB:111:GLU:HG2	2.18	0.44
45:LB:208:TYR:CD1	45:LB:225:LEU:HD21	2.53	0.44
44:LE:414:GLU:O	44:LE:417:GLU:HG2	2.18	0.44
44:LG:268:MET:HB3	44:LG:380:ASN:HB2	2.00	0.44
44:LG:285:GLN:CD	44:LG:287:SER:HB2	2.37	0.44
45:LH:201:VAL:O	45:LH:301:CYS:SG	2.76	0.44
44:LI:137:VAL:O	44:LI:137:VAL:HG23	2.18	0.44
44:LI:179:THR:O	45:LJ:350:LYS:HD3	2.17	0.44
45:LJ:1:MET:HG2	45:LJ:46:ARG:HH22	1.82	0.44
45:LL:118:ASP:OD1	45:LL:121:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:192:LEU:O	45:LL:192:LEU:HD23	2.18	0.44
45:LL:231:ALA:HB1	45:LL:270:PHE:CE2	2.52	0.44
44:LM:56:THR:HG21	44:LM:59:GLY:C	2.39	0.44
44:LM:222:PRO:HA	44:LM:226:ASN:HD22	1.82	0.44
44:MA:11:GLN:NE2	45:MB:246:LEU:HA	2.33	0.44
44:MA:216:ASN:ND2	44:MA:275:ILE:O	2.45	0.44
45:MB:214:THR:O	45:MB:216:LYS:HG3	2.18	0.44
45:MB:284:LEU:HD22	45:MB:363:MET:CE	2.48	0.44
44:ME:14:ILE:O	44:ME:18:ASN:N	2.29	0.44
44:ME:250:VAL:HG13	44:ME:254:GLU:CB	2.47	0.44
44:ME:349:THR:O	44:ME:349:THR:HG23	2.17	0.44
45:MF:133:PHE:CD2	45:MF:155:VAL:HG11	2.53	0.44
44:MG:277:SER:O	44:MG:281:ALA:HB2	2.18	0.44
44:MG:290:GLU:HG3	44:MG:291:ILE:N	2.30	0.44
45:MH:101:TRP:CH2	45:MH:187:LEU:HB3	2.53	0.44
45:MH:139:LEU:HD21	45:MH:168:SER:HB3	2.00	0.44
45:MH:209:ASP:O	45:MH:297:LYS:NZ	2.50	0.44
45:MH:244:GLY:HA2	45:MH:355:ASP:CG	2.38	0.44
45:MJ:133:PHE:CD2	45:MJ:155:VAL:HG11	2.53	0.44
45:MJ:154:LYS:HE2	45:MJ:154:LYS:HB2	1.66	0.44
44:MK:212:ILE:HD12	44:MK:300:ASN:OD1	2.18	0.44
44:MK:221:ARG:NH2	45:ML:322:SER:H	2.16	0.44
44:MK:263:PRO:O	44:MK:266:HIS:HD2	2.00	0.44
45:ML:65:LEU:HD22	45:ML:90:PHE:HE1	1.79	0.44
44:NA:377:MET:HB3	44:NA:377:MET:HE3	1.93	0.44
45:ND:197:ASP:O	45:ND:264:HIS:HB2	2.18	0.44
44:NE:66:VAL:CG1	44:NE:122:ILE:HD11	2.35	0.44
44:NE:223:THR:CG2	44:NE:224:TYR:H	2.31	0.44
44:NE:271:SER:HG	44:NE:301:MET:HA	1.83	0.44
44:NG:306:ASP:HB3	44:NG:309:HIS:HB3	2.00	0.44
45:NH:284:LEU:HA	45:NH:288:GLU:OE2	2.18	0.44
44:NI:151:SER:HB3	44:NI:193:SER:OG	2.18	0.44
44:NI:183:GLU:HG2	44:NI:184:PRO:CD	2.48	0.44
44:NI:326:LYS:CD	45:NL:220:PRO:HD2	2.48	0.44
44:NI:328:VAL:CG1	44:NI:353:VAL:HG21	2.48	0.44
45:NJ:286:VAL:HB	45:NJ:325:GLU:OE1	2.18	0.44
45:NJ:318:ARG:HH11	45:NJ:358:PRO:HG3	1.82	0.44
44:NK:208:ALA:HB2	44:NK:304:LYS:HG2	1.99	0.44
44:NK:311:LYS:O	44:NK:382:THR:N	2.50	0.44
45:NL:211:CYS:O	45:NL:215:LEU:HB2	2.18	0.44
44:NM:11:GLN:O	44:NM:14:ILE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:187:SER:HA	44:NM:190:SER:OG	2.18	0.44
45:NN:253:LEU:O	45:NN:257:LEU:HD13	2.18	0.44
44:OA:72:PRO:HG3	44:OA:94:SER:OG	2.17	0.44
44:OA:179:THR:HG21	45:OB:246:LEU:CD2	2.47	0.44
45:OB:64:ILE:HG13	45:OB:89:ASN:HB3	2.00	0.44
45:OB:201:VAL:N	45:OB:266:PHE:O	2.36	0.44
44:OC:220:GLU:C	44:OC:221:ARG:HD2	2.38	0.44
44:OC:270:SER:HA	44:OC:377:MET:O	2.18	0.44
44:OC:387:VAL:HG23	44:OC:390:ARG:CZ	2.48	0.44
45:OH:34:GLY:O	45:OH:58:ARG:HG3	2.18	0.44
45:OJ:156:ARG:HD2	45:OJ:195:ASN:O	2.18	0.44
45:OJ:178:THR:H	45:OJ:181:GLU:CD	2.15	0.44
45:OL:262:ARG:HG2	45:OL:262:ARG:O	2.17	0.44
45:OL:374:ILE:HD11	45:OL:422:TYR:CZ	2.53	0.44
44:OM:287:SER:N	44:OM:290:GLU:OE2	2.37	0.44
44:PA:134:GLY:HA3	44:PA:165:SER:OG	2.18	0.44
44:PA:174:SER:HB3	44:PA:175:PRO:CD	2.47	0.44
44:PC:122:ILE:O	44:PC:126:ALA:N	2.43	0.44
44:PC:413:MET:HG3	44:PC:414:GLU:H	1.83	0.44
45:PD:135:ILE:HG21	45:PD:152:ILE:HD11	1.98	0.44
45:PF:180:VAL:O	45:PF:180:VAL:CG2	2.65	0.44
45:PF:181:GLU:N	45:PF:182:PRO:HD2	2.33	0.44
45:PF:208:TYR:O	45:PF:212:PHE:HD2	2.01	0.44
45:PF:211:CYS:HA	45:PF:215:LEU:HD12	1.99	0.44
44:PG:6:SER:HA	44:PG:136:LEU:CB	2.33	0.44
44:PG:332:ILE:HG23	44:PG:351:PHE:HE2	1.81	0.44
45:PH:202:ILE:HD13	45:PH:229:VAL:CG2	2.48	0.44
44:PI:71:GLU:CD	44:PI:73:THR:H	2.21	0.44
44:PI:189:LEU:O	44:PI:192:HIS:HB3	2.18	0.44
44:PK:126:ALA:CB	44:PK:132:LEU:HD11	2.47	0.44
44:PK:223:THR:O	44:PK:226:ASN:HB2	2.18	0.44
45:PL:163:ILE:HG13	45:PL:251:ARG:HG3	2.00	0.44
45:PL:173:PRO:HG3	45:PL:380:ARG:HD3	2.00	0.44
45:PN:135:ILE:HG13	45:PN:152:ILE:HD11	1.98	0.44
45:PN:246:LEU:HD13	45:PN:353:ILE:CD1	2.46	0.44
45:PN:404:ASP:OD2	45:PN:407:GLU:HG3	2.18	0.44
44:QA:116:ASP:O	44:QA:119:LEU:HG	2.18	0.44
44:QA:137:VAL:CG1	44:QA:168:GLY:HA2	2.48	0.44
44:QA:209:ILE:HG12	44:QA:302:MET:CE	2.47	0.44
44:QA:334:THR:O	44:QA:337:THR:HB	2.18	0.44
45:QB:47:ILE:HD13	45:QB:59:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:270:PHE:O	45:QB:273:LEU:HG	2.17	0.44
44:QC:145:THR:OG1	44:QC:149:LEU:HD23	2.18	0.44
44:QE:26:LEU:HG	44:QE:26:LEU:O	2.17	0.44
45:QF:40:SER:HG	45:QF:43:GLN:CD	2.17	0.44
44:QG:257:THR:HA	45:QH:397:TRP:CE2	2.51	0.44
45:QH:274:THR:HB	45:QH:282:ARG:HH21	1.82	0.44
44:QI:284:GLU:HG3	44:QI:286:LEU:HG	2.00	0.44
45:QJ:24:ILE:HG23	45:QJ:27:GLU:OE2	2.18	0.44
45:QL:60:VAL:HG13	45:QL:60:VAL:O	2.17	0.44
45:QL:416:ASN:O	45:QL:420:SER:OG	2.36	0.44
44:QM:144:GLY:O	44:QM:148:GLY:HA3	2.18	0.44
45:QN:68:LEU:HG	45:QN:96:GLY:HA2	2.00	0.44
45:RB:265:PHE:HB2	45:RB:374:ILE:HD12	1.99	0.44
45:RB:305:PRO:HB2	45:RB:310:TYR:OH	2.18	0.44
44:RC:270:SER:HB2	44:RC:378:ILE:HD13	2.00	0.44
44:RC:280:LYS:CA	44:RC:283:HIS:HD2	2.25	0.44
44:RE:138:PHE:CD1	44:RE:169:PHE:HB2	2.52	0.44
45:RF:228:LEU:O	45:RF:231:ALA:HB3	2.18	0.44
44:RG:101:ASN:HA	44:RG:144:GLY:CA	2.48	0.44
45:RH:256:ASN:O	45:RH:257:LEU:HD12	2.18	0.44
44:RI:205:ASP:CG	44:RI:303:ALA:HA	2.39	0.44
44:RI:245:ASP:O	44:RI:357:TYR:HD2	2.01	0.44
44:RI:346:TRP:HD1	45:RJ:391:ARG:NH1	2.15	0.44
45:RJ:228:LEU:O	45:RJ:231:ALA:HB3	2.18	0.44
44:RK:70:LEU:HB3	44:RK:98:ASP:HA	2.00	0.44
44:RK:104:ALA:CB	44:RK:413:MET:HE2	2.45	0.44
45:RL:18:ALA:HA	45:RL:21:TRP:HB2	2.00	0.44
45:RL:360:GLY:O	45:RL:361:LEU:HD23	2.18	0.44
45:RN:113:ILE:O	45:RN:117:LEU:CD2	2.63	0.44
45:RN:217:LEU:HD11	45:RN:220:PRO:HG3	2.00	0.44
44:SA:7:ILE:O	44:SA:137:VAL:HG23	2.17	0.44
44:SA:89:PRO:HG3	44:TA:280:LYS:CE	2.48	0.44
44:SA:125:LEU:O	44:SA:128:ASN:HB2	2.18	0.44
45:SB:86:ARG:HH22	45:TB:281:TYR:HB3	1.83	0.44
45:SB:289:LEU:C	45:SB:293:MET:HE2	2.38	0.44
44:SC:77:GLU:O	44:SC:81:GLY:N	2.51	0.44
44:SC:91:GLN:HA	44:SC:121:ARG:CZ	2.44	0.44
45:SD:54:ALA:HA	45:TD:283:ALA:CB	2.39	0.44
45:SD:263:LEU:HG	45:SD:422:TYR:CD1	2.52	0.44
44:SE:72:PRO:HG3	44:SE:94:SER:OG	2.18	0.44
44:SE:99:ALA:HB3	44:SE:145:THR:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:205:ASP:OD1	44:SE:205:ASP:N	2.50	0.44
44:SE:223:THR:HG23	44:SE:225:THR:OG1	2.18	0.44
44:SE:298:PRO:O	44:SE:301:MET:HE2	2.18	0.44
44:SG:186:ASN:OD1	44:SG:187:SER:N	2.51	0.44
45:SH:17:GLY:HA2	45:SH:20:PHE:HB3	1.99	0.44
45:SH:174:LYS:HD2	45:SH:175:VAL:CG1	2.34	0.44
44:SI:206:ASN:HA	44:SI:209:ILE:CG1	2.48	0.44
45:SJ:175:VAL:HG11	45:SJ:204:ASN:C	2.37	0.44
45:SJ:238:CYS:SG	45:SJ:239:CYS:N	2.90	0.44
45:SJ:320:ARG:O	45:SJ:321:MET:CG	2.59	0.44
45:SJ:344:TRP:CD2	44:SK:401:LYS:HE3	2.52	0.44
44:SK:326:LYS:HZ3	45:SL:219:THR:HA	1.82	0.44
45:SL:167:PHE:CG	45:SL:233:MET:HE2	2.53	0.44
45:SL:238:CYS:HB2	45:SL:318:ARG:HD2	2.00	0.44
45:SL:317:PHE:O	45:SL:353:ILE:HA	2.17	0.44
44:SM:8:HIS:HB2	44:SM:67:PHE:CD1	2.51	0.44
44:SM:122:ILE:HA	44:SM:125:LEU:HD12	2.00	0.44
45:SN:16:ILE:HD11	48:SN:501:GDP:C2	2.53	0.44
44:TA:252:ILE:HA	44:TA:255:PHE:CZ	2.53	0.44
44:TA:258:ASN:HA	45:TB:179:VAL:HG21	2.00	0.44
45:TB:328:GLU:O	45:TB:331:LEU:N	2.51	0.44
45:TD:206:ALA:HB3	45:TD:300:MET:O	2.18	0.44
44:TE:54:SER:O	44:TE:61:HIS:HA	2.18	0.44
44:TE:270:SER:C	44:TE:271:SER:HG	2.20	0.44
44:TE:428:LEU:HG	44:TE:432:TYR:CE2	2.53	0.44
45:TF:106:TYR:HD2	45:TF:403:MET:SD	2.41	0.44
45:TF:192:LEU:HD21	45:TF:199:CYS:SG	2.58	0.44
45:TF:211:CYS:SG	45:TF:225:LEU:HD23	2.58	0.44
45:TF:322:SER:CB	44:TG:221:ARG:HG2	2.48	0.44
44:TG:223:THR:O	44:TG:227:LEU:HG	2.18	0.44
45:TH:222:TYR:CD1	48:TH:501:GDP:N1	2.86	0.44
44:TI:108:TYR:CD1	44:TI:112:LYS:HE3	2.53	0.44
44:TI:135:PHE:CG	44:TI:166:LYS:HG2	2.52	0.44
45:TJ:360:GLY:O	45:TJ:362:LYS:NZ	2.38	0.44
44:TM:21:TRP:NE1	44:TM:65:ALA:HB2	2.32	0.44
44:TM:375:VAL:HG22	44:TM:376:CYS:N	2.33	0.44
45:TN:372:THR:HA	45:TN:422:TYR:CD2	2.52	0.44
44:UA:84:ARG:HE	44:UA:85:GLN:HE21	1.65	0.44
44:UA:317:MET:HE2	44:UA:375:VAL:CG2	2.25	0.44
45:UB:113:ILE:HA	45:UB:116:VAL:HG12	2.00	0.44
45:UB:391:ARG:HA	45:UB:391:ARG:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:433:GLU:O	44:UC:437:ILE:HG23	2.17	0.44
44:UE:195:LEU:HG	44:UE:195:LEU:O	2.17	0.44
44:UE:199:ASP:O	44:UE:266:HIS:HB2	2.17	0.44
44:UE:230:LEU:O	44:UE:234:VAL:HG23	2.18	0.44
44:UE:325:PRO:HB3	45:UF:222:TYR:CZ	2.52	0.44
45:UF:250:LEU:HD23	45:UF:250:LEU:H	1.83	0.44
44:UG:212:ILE:HG21	44:UG:275:ILE:HD12	1.99	0.44
44:UG:272:TYR:CD1	44:UG:376:CYS:HB2	2.45	0.44
44:UG:296:PHE:CE2	44:UG:335:ILE:HG21	2.52	0.44
44:UG:320:ARG:NE	44:UG:360:PRO:HG3	2.33	0.44
45:UH:383:GLU:HA	45:UH:386:THR:HG22	2.00	0.44
44:UI:174:SER:HG	44:UI:207:GLU:H	1.65	0.44
45:UJ:3:GLU:CG	45:UJ:127:CYS:HB2	2.48	0.44
45:UJ:116:VAL:CG1	45:UJ:151:LEU:HD11	2.48	0.44
45:UJ:255:VAL:HG21	44:UK:100:ALA:HB1	1.99	0.44
44:UK:6:SER:O	44:UK:7:ILE:HD13	2.18	0.44
44:UK:296:PHE:CE2	44:UK:335:ILE:HG21	2.52	0.44
45:UL:251:ARG:O	45:UL:254:ALA:N	2.51	0.44
45:UL:268:ILE:HG22	45:UL:368:VAL:CG2	2.41	0.44
45:UL:337:ASN:HB3	45:UL:341:PHE:CE1	2.53	0.44
44:UM:277:SER:O	44:UM:281:ALA:HB2	2.18	0.44
44:UM:321:GLY:HA3	44:UM:373:ARG:HA	2.00	0.44
44:UM:360:PRO:HG2	44:UM:374:ALA:CB	2.48	0.44
44:VA:75:ILE:HG13	44:VA:94:SER:HB2	2.00	0.44
45:VB:30:ILE:HG13	45:VB:51:TYR:CE2	2.53	0.44
45:VB:66:MET:SD	45:VB:116:VAL:HG21	2.57	0.44
45:VB:320:ARG:HD2	45:VB:355:ASP:O	2.18	0.44
45:VD:72:THR:HG23	45:VD:73:MET:H	1.83	0.44
45:VD:103:LYS:HB2	45:VD:401:GLU:OE1	2.17	0.44
45:VD:278:SER:O	45:VD:282:ARG:HB2	2.18	0.44
44:VE:64:ARG:NE	44:VE:129:CYS:SG	2.91	0.44
44:VE:185:TYR:HE2	44:VE:404:PHE:CB	2.30	0.44
44:VG:101:ASN:O	44:VG:408:TYR:OH	2.24	0.44
44:VG:267:PHE:HB2	44:VG:384:ILE:CD1	2.48	0.44
45:VH:178:THR:HB	45:VH:181:GLU:CG	2.32	0.44
44:VI:88:HIS:CE1	44:VI:90:GLU:H	2.35	0.44
44:VI:222:PRO:HD2	45:VJ:324:LYS:HE2	1.99	0.44
45:VJ:109:GLY:O	45:VJ:113:ILE:HG22	2.17	0.44
45:VJ:257:LEU:HB3	45:VJ:266:PHE:CZ	2.53	0.44
44:VK:145:THR:HG22	46:VK:501:GTP:O3G	2.18	0.44
45:VL:49:VAL:HG11	45:VL:240:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:143:THR:HG22	48:VL:501:GDP:O2B	2.18	0.44
45:VL:376:GLU:O	45:VL:380:ARG:HG2	2.17	0.44
44:VM:93:ILE:HD12	44:VM:93:ILE:H	1.83	0.44
44:VM:260:VAL:HG13	44:VM:266:HIS:HB3	1.98	0.44
44:VM:407:TRP:HZ3	45:VN:255:VAL:CA	2.26	0.44
45:VN:9:GLY:HA3	45:VN:118:ASP:CG	2.38	0.44
45:VN:118:ASP:CB	45:VN:148:GLY:HA2	2.46	0.44
45:VN:303:ALA:H	45:VN:377:MET:CE	2.31	0.44
44:WA:210:TYR:CZ	44:WA:227:LEU:HD11	2.53	0.44
44:WA:275:ILE:O	44:WA:275:ILE:CG2	2.65	0.44
44:WC:10:GLY:C	44:WC:14:ILE:HD12	2.38	0.44
44:WC:145:THR:HG23	44:WC:146:GLY:N	2.33	0.44
44:WC:180:ALA:HB3	44:WC:183:GLU:HB3	2.00	0.44
45:WD:7:ILE:HB	45:WD:135:ILE:HD11	1.97	0.44
45:WD:292:GLN:HE21	45:WD:298:ASN:CB	2.30	0.44
45:WD:374:ILE:HD11	45:WD:422:TYR:CE1	2.52	0.44
44:WE:102:ASN:HB3	44:WE:105:ARG:HG3	1.99	0.44
44:WE:106:GLY:O	44:WE:149:LEU:HD22	2.18	0.44
44:WE:268:MET:HB3	44:WE:380:ASN:CB	2.47	0.44
44:WE:338:LYS:NZ	44:WE:340:THR:CG2	2.81	0.44
45:WF:286:VAL:CB	45:WF:287:PRO:HD3	2.44	0.44
45:WF:286:VAL:CG1	45:WF:325:GLU:OE1	2.66	0.44
44:WG:40:LYS:C	44:WG:41:THR:HA	2.39	0.44
44:WG:88:HIS:ND1	44:WG:89:PRO:HD3	2.33	0.44
44:WG:143:GLY:HA3	46:WG:501:GTP:O3B	2.17	0.44
44:WG:223:THR:OG1	45:WH:323:THR:HG23	2.18	0.44
44:WG:271:SER:HB2	44:WG:377:MET:SD	2.57	0.44
44:WG:355:ILE:HD12	44:WG:355:ILE:N	2.33	0.44
45:WH:163:ILE:HG12	45:WH:251:ARG:HD3	1.99	0.44
44:WI:175:PRO:HG2	44:WI:207:GLU:OE1	2.18	0.44
44:WK:7:ILE:HB	44:WK:137:VAL:CG2	2.47	0.44
45:WL:183:TYR:CD2	45:WL:388:MET:HE3	2.53	0.44
45:WL:208:TYR:O	45:WL:212:PHE:HD2	2.01	0.44
44:WM:132:LEU:HD21	44:WM:135:PHE:CE2	2.52	0.44
45:WN:91:VAL:HG13	45:WN:91:VAL:O	2.18	0.44
1:6H:342:VAL:CG1	45:FJ:243:PRO:HB2	2.48	0.43
1:6H:342:VAL:CG2	45:FJ:42:LEU:HD21	2.48	0.43
4:0C:37:ILE:HD11	44:DI:79:ARG:HG2	2.00	0.43
13:0T:199:ARG:NH1	45:AB:376:GLU:OE2	2.46	0.43
18:1F:65:THR:CG2	45:GL:35:THR:HG21	2.46	0.43
20:1J:102:MET:HB2	40:6F:51:TYR:CG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1R:101:ARG:HH11	44:AC:41:THR:CG2	2.28	0.43
26:1R:404:ARG:NH2	44:DC:57:GLY:O	2.49	0.43
17:2B:63:GLN:NE2	44:LK:84:ARG:NE	2.64	0.43
28:2C:300:PRO:HG3	45:KJ:320:ARG:NH2	2.32	0.43
31:2H:193:LEU:CD2	45:AD:362:LYS:HE2	2.48	0.43
24:2O:424:ALA:CB	44:VA:282:TYR:HE2	2.30	0.43
25:2P:380:ARG:HB3	44:TM:370:LYS:CE	2.48	0.43
26:2R:244:ARG:HH21	44:BG:55:GLU:HB3	1.81	0.43
13:2T:125:GLY:O	44:AG:337:THR:HG23	2.18	0.43
27:2W:265:LEU:HD23	44:LK:370:LYS:HD2	1.60	0.43
26:3R:97:ARG:HB3	44:AK:42:ILE:CD1	2.09	0.43
37:5C:104:PRO:HB3	44:KI:390:ARG:NH1	2.33	0.43
38:5G:124:TYR:CD2	44:OI:281:ALA:HB3	2.53	0.43
38:5G:138:LEU:HD23	38:5G:138:LEU:C	2.38	0.43
38:5H:44:ARG:HE	38:5H:45:PRO:CD	2.28	0.43
38:5H:110:ARG:HA	38:5H:110:ARG:HD3	1.72	0.43
39:5K:22:TRP:HZ2	45:NL:343:GLU:HB3	1.83	0.43
35:5R:121:TYR:HB2	35:5R:126:THR:CG2	2.48	0.43
35:5R:169:ILE:O	35:5R:179:ARG:HD2	2.18	0.43
35:5R:355:TYR:HB2	44:CI:39:ASP:O	2.17	0.43
35:5R:425:ARG:CD	44:EI:40:LYS:HZ2	2.31	0.43
35:5R:488:LEU:HA	35:5R:523:PHE:CE1	2.52	0.43
35:5R:488:LEU:HA	35:5R:523:PHE:HE1	1.83	0.43
36:5S:175:ILE:HG13	36:5S:176:GLY:N	2.33	0.43
40:6F:41:TYR:O	40:6F:44:ARG:HB3	2.18	0.43
40:6F:43:GLU:OE2	40:6F:53:LYS:HG3	2.18	0.43
40:6F:126:LYS:HD2	40:6F:126:LYS:O	2.18	0.43
11:6Q:118:ILE:HD11	44:AM:264:ARG:NH1	2.32	0.43
11:6Q:179:PRO:HA	11:6Q:182:LYS:CG	2.45	0.43
35:6R:311:LYS:HE3	35:6R:311:LYS:HB2	1.63	0.43
35:6R:567:ASN:O	35:6R:571:VAL:HG13	2.18	0.43
35:7R:202:GLU:N	35:7R:202:GLU:OE1	2.51	0.43
35:7R:531:THR:OG1	35:7R:588:LEU:HD21	2.18	0.43
43:8R:44:UNK:O	43:8R:48:UNK:N	2.51	0.43
43:8R:197:UNK:C	45:PH:362:LYS:NZ	2.81	0.43
44:AA:145:THR:HG22	46:AA:501:GTP:PG	2.57	0.43
44:AA:200:VAL:HG13	44:AA:268:MET:HE1	1.99	0.43
45:AB:374:ILE:HD11	45:AB:422:TYR:CE1	2.53	0.43
44:AC:22:GLU:HG3	44:AC:83:TYR:CZ	2.52	0.43
44:AC:286:LEU:HD13	44:AC:371:VAL:HB	1.99	0.43
45:AD:303:ALA:H	45:AD:377:MET:HE3	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:66:MET:HE2	45:AF:147:MET:SD	2.58	0.43
45:AF:242:PHE:CB	45:AF:356:ILE:HG13	2.48	0.43
44:AG:74:VAL:HG13	44:AG:75:ILE:N	2.33	0.43
44:AG:287:SER:O	44:AG:290:GLU:HG2	2.17	0.43
45:AH:65:LEU:HD11	45:AH:85:PHE:CE2	2.53	0.43
45:AL:69:GLU:OE1	45:AL:71:GLY:N	2.46	0.43
45:AN:356:ILE:C	45:AN:357:PRO:HG2	2.38	0.43
45:BB:20:PHE:O	45:BB:24:ILE:HG12	2.17	0.43
45:BB:232:ALA:HB1	45:BB:268:ILE:HD12	2.00	0.43
44:BC:398:MET:HE3	45:BD:346:PRO:HG2	1.99	0.43
45:BD:175:VAL:O	45:BD:175:VAL:HG23	2.18	0.43
44:BE:13:GLY:HA2	44:BE:16:VAL:CG1	2.48	0.43
44:BE:257:THR:HA	45:BH:397:TRP:NE1	2.33	0.43
45:BF:253:LEU:O	45:BF:257:LEU:HG	2.18	0.43
44:BG:326:LYS:HD3	44:BG:329:ASN:HB3	1.99	0.43
45:BH:52:ASN:N	45:BH:62:ARG:HH21	2.16	0.43
45:BH:221:THR:HG22	45:BH:224:ASP:OD2	2.19	0.43
45:BJ:29:GLY:HA3	45:BJ:43:GLN:NE2	2.33	0.43
44:BK:224:TYR:CE1	46:BK:501:GTP:C6	3.06	0.43
44:BK:312:TYR:HB2	44:BK:343:PHE:CD1	2.53	0.43
45:BL:309:ARG:O	45:BL:372:THR:HG23	2.17	0.43
44:BM:205:ASP:CG	44:BM:303:ALA:HA	2.37	0.43
44:BM:312:TYR:HB2	44:BM:343:PHE:CD1	2.53	0.43
45:BN:158:GLU:O	45:BN:159:TYR:CD1	2.71	0.43
45:CB:163:ILE:HG21	45:CB:251:ARG:HG2	2.00	0.43
45:CB:166:THR:N	45:CB:198:GLU:O	2.50	0.43
45:CB:211:CYS:HB3	45:CB:217:LEU:HD21	2.00	0.43
45:CB:390:ARG:NH1	45:CB:391:ARG:CD	2.81	0.43
44:CC:11:GLN:HB3	44:CC:74:VAL:HG11	1.98	0.43
44:CC:225:THR:HA	44:CC:228:ASN:OD1	2.18	0.43
45:CD:151:LEU:O	45:CD:155:VAL:HG22	2.18	0.43
45:CD:249:ASP:O	45:CD:252:LYS:HG3	2.18	0.43
45:CD:268:ILE:O	45:CD:299:MET:HE3	2.17	0.43
44:CE:175:PRO:HG2	44:CE:304:LYS:HG2	1.99	0.43
44:CE:408:TYR:CD2	44:CE:418:PHE:HZ	2.36	0.43
45:CF:377:MET:HA	45:CF:380:ARG:HD2	2.00	0.43
44:CG:311:LYS:HZ2	44:CG:342:GLN:HG3	1.81	0.43
44:CG:363:VAL:CG1	44:CG:366:GLY:HA3	2.48	0.43
45:CH:271:ALA:HA	45:CH:273:LEU:HD23	2.00	0.43
45:CJ:342:VAL:HG21	45:CJ:344:TRP:CE2	2.52	0.43
45:CL:245:GLN:HB3	44:CM:224:TYR:CD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CL:399:THR:HA	45:CL:403:MET:O	2.18	0.43
45:CN:69:GLU:OE1	45:CN:71:GLY:N	2.50	0.43
45:CN:222:TYR:HD1	45:CN:225:LEU:HD12	1.83	0.43
44:DA:55:GLU:HG3	44:DA:57:GLY:H	1.83	0.43
44:DA:332:ILE:HG22	44:DA:336:LYS:HE2	2.00	0.43
45:DB:420:SER:O	45:DB:424:GLN:CD	2.57	0.43
44:DC:8:HIS:CD2	44:DC:17:GLY:HA3	2.53	0.43
44:DC:343:PHE:HE2	44:DC:351:PHE:CE1	2.36	0.43
44:DE:88:HIS:HD1	44:DE:90:GLU:HG2	1.83	0.43
44:DE:103:PHE:HE2	44:DE:189:LEU:HD13	1.83	0.43
45:DF:296:ALA:HA	45:DF:299:MET:CE	2.48	0.43
44:DG:28:HIS:NE2	44:DG:243:ARG:HD2	2.32	0.43
45:DH:251:ARG:HG3	44:DI:100:ALA:CB	2.48	0.43
45:DH:321:MET:SD	45:DH:326:VAL:HG21	2.58	0.43
44:DI:62:VAL:HG11	44:EI:283:HIS:O	2.18	0.43
44:DI:141:VAL:HG22	44:DI:187:SER:HA	2.00	0.43
45:DJ:293:MET:CE	45:DJ:294:PHE:CD1	3.01	0.43
44:DK:13:GLY:HA2	44:DK:16:VAL:HG12	1.99	0.43
44:DK:98:ASP:OD1	44:DK:99:ALA:N	2.50	0.43
45:DL:10:GLY:O	45:DL:14:ASN:N	2.35	0.43
45:DL:28:HIS:CE1	45:DL:241:ARG:HD3	2.53	0.43
45:DL:68:LEU:HD21	45:DL:97:ALA:CB	2.45	0.43
44:DM:8:HIS:HE1	44:DM:21:TRP:HZ2	1.65	0.43
44:DM:75:ILE:CG2	44:DM:79:ARG:HH11	2.31	0.43
44:DM:260:VAL:HG13	44:DM:266:HIS:HA	1.98	0.43
45:DN:260:PHE:CD2	45:DN:263:LEU:HD22	2.47	0.43
45:EB:132:GLY:O	45:EB:133:PHE:HD1	2.00	0.43
45:EB:223:GLY:HA2	45:EB:226:ASN:ND2	2.23	0.43
45:EB:267:MET:HB3	45:EB:267:MET:HE2	1.86	0.43
44:EC:2:ARG:NE	44:EC:51:THR:OG1	2.50	0.43
44:EC:278:ALA:HB2	44:EC:369:ALA:HB2	2.00	0.43
45:ED:12:CYS:SG	45:ED:137:HIS:HA	2.58	0.43
45:ED:12:CYS:SG	45:ED:13:GLY:N	2.91	0.43
45:ED:237:THR:HG23	45:ED:241:ARG:NH2	2.33	0.43
45:ED:385:PHE:HE2	45:ED:412:GLU:HB2	1.81	0.43
45:EF:164:MET:H	45:EF:197:ASP:HB2	1.81	0.43
44:EG:103:PHE:CZ	44:EG:189:LEU:HB3	2.53	0.43
44:EG:346:TRP:CD1	45:EH:391:ARG:HG3	2.53	0.43
45:EH:131:GLN:O	45:EH:163:ILE:HG12	2.17	0.43
45:EH:209:ASP:OD1	45:EH:213:ARG:HD3	2.17	0.43
45:EJ:100:ASN:O	45:EJ:103:LYS:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:288:GLU:HA	45:EL:291:GLN:CG	2.48	0.43
44:EM:93:ILE:H	44:EM:93:ILE:HD12	1.83	0.43
45:EN:101:TRP:CB	45:EN:398:TYR:HE2	2.31	0.43
45:EN:248:SER:HA	45:EN:252:LYS:CD	2.37	0.43
44:FA:64:ARG:NH2	44:FA:128:ASN:OD1	2.51	0.43
44:FA:86:LEU:HG	44:FA:87:PHE:CD1	2.53	0.43
45:FB:207:LEU:HB3	45:FB:225:LEU:HD13	1.99	0.43
45:FB:345:ILE:HG23	45:FB:345:ILE:O	2.18	0.43
45:FD:6:HIS:ND1	45:FD:134:GLN:NE2	2.65	0.43
45:FD:164:MET:H	45:FD:197:ASP:HB2	1.83	0.43
44:FE:242:LEU:HD11	44:FE:252:ILE:CG1	2.43	0.43
44:FE:286:LEU:HD12	44:FE:286:LEU:HA	1.79	0.43
44:FG:308:ARG:NH1	44:FG:308:ARG:HG3	2.33	0.43
45:FH:105:HIS:C	45:FH:106:TYR:HD1	2.21	0.43
45:FH:376:GLU:HG2	45:FH:380:ARG:HH21	1.82	0.43
44:FI:130:THR:HG23	44:FI:131:GLY:H	1.83	0.43
45:FJ:67:ASP:OD2	45:FJ:69:GLU:HG3	2.18	0.43
44:FK:26:LEU:CD2	44:FK:363:VAL:HG22	2.38	0.43
44:FK:101:ASN:HA	44:FK:144:GLY:CA	2.48	0.43
45:FL:104:GLY:CA	45:FL:109:GLY:H	2.16	0.43
45:FL:187:LEU:HD11	45:FL:408:PHE:CE1	2.53	0.43
45:FL:415:MET:O	45:FL:419:VAL:N	2.38	0.43
44:FM:141:VAL:HG11	44:FM:172:TYR:CD1	2.52	0.43
44:FM:147:SER:HB2	44:FM:190:SER:CB	2.41	0.43
44:FM:151:SER:O	44:FM:155:GLU:HG3	2.18	0.43
44:GA:256:GLN:OE1	45:GD:397:TRP:HZ2	2.00	0.43
45:GB:51:TYR:HB3	45:GB:59:TYR:HB3	2.00	0.43
45:GB:163:ILE:HA	45:GB:197:ASP:OD2	2.18	0.43
45:GB:215:LEU:CB	45:GB:217:LEU:HD23	2.48	0.43
44:GC:28:HIS:NE2	44:GC:243:ARG:HD2	2.32	0.43
44:GC:99:ALA:CB	44:GC:145:THR:HG22	2.48	0.43
45:GD:316:LEU:O	45:GD:366:THR:N	2.45	0.43
44:GE:24:PHE:HE1	44:GE:236:SER:CB	2.20	0.43
44:GE:51:THR:HG22	44:GE:52:PHE:CD2	2.53	0.43
44:GE:68:LEU:HD22	44:GE:153:LEU:HD11	2.00	0.43
44:GE:244:PHE:CE2	44:GE:358:GLN:OE1	2.71	0.43
45:GF:21:TRP:HE3	45:GF:51:TYR:HH	1.65	0.43
45:GF:73:MET:HE3	45:GF:92:PHE:CD1	2.53	0.43
44:GG:122:ILE:O	44:GG:125:LEU:N	2.49	0.43
44:GG:217:LEU:HD21	44:GG:275:ILE:CG2	2.48	0.43
45:GH:200:MET:HA	45:GH:266:PHE:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:334:GLN:HB2	45:GH:349:ILE:HD12	2.00	0.43
45:GJ:47:ILE:HD13	45:GJ:59:TYR:CE2	2.53	0.43
45:GJ:178:THR:HG22	45:GJ:180:VAL:HG12	2.00	0.43
44:GM:105:ARG:NH1	45:GN:251:ARG:HD3	2.33	0.43
44:GM:213:CYS:CB	44:GM:217:LEU:HD12	2.35	0.43
45:GN:256:ASN:CB	45:GN:350:LYS:HD2	2.48	0.43
44:HA:194:LEU:HD12	44:HA:195:LEU:N	2.32	0.43
44:HA:210:TYR:CB	45:HB:324:LYS:HD2	2.48	0.43
44:HA:224:TYR:CD1	44:HA:227:LEU:HD12	2.53	0.43
44:HA:306:ASP:OD1	44:HA:308:ARG:HB2	2.18	0.43
45:HB:36:TYR:CZ	45:HB:38:GLY:HA3	2.53	0.43
44:HC:150:GLY:O	44:HC:154:LEU:HG	2.17	0.43
45:HD:68:LEU:HG	45:HD:68:LEU:O	2.18	0.43
45:HD:180:VAL:HG21	45:HD:398:TYR:OH	2.18	0.43
45:HD:318:ARG:O	45:HD:321:MET:HE1	2.18	0.43
45:HF:2:ARG:HH21	45:HF:240:LEU:HD12	1.83	0.43
45:HF:6:HIS:CB	45:HF:21:TRP:HZ2	2.31	0.43
45:HF:152:ILE:O	45:HF:155:VAL:HG22	2.18	0.43
45:HF:282:ARG:HH22	45:HF:291:GLN:NE2	2.15	0.43
45:HF:289:LEU:HD11	45:HF:363:MET:HB3	1.99	0.43
44:HG:137:VAL:HG12	44:HG:167:LEU:O	2.18	0.43
44:HG:209:ILE:O	44:HG:212:ILE:N	2.46	0.43
44:HG:355:ILE:C	44:HG:356:ASN:HD22	2.21	0.43
44:HI:56:THR:HG22	44:HI:60:LYS:O	2.17	0.43
44:HI:387:VAL:O	44:HI:391:LEU:HD23	2.18	0.43
44:HM:21:TRP:CZ2	44:HM:65:ALA:HB2	2.53	0.43
44:HM:141:VAL:CG1	44:HM:172:TYR:HA	2.47	0.43
45:HN:3:GLU:CB	45:HN:49:VAL:HA	2.47	0.43
45:HN:24:ILE:HD11	45:HN:241:ARG:NH1	2.33	0.43
45:HN:103:LYS:O	45:HN:107:THR:OG1	2.25	0.43
45:HN:267:MET:HE3	45:HN:299:MET:HG2	2.00	0.43
45:HN:386:THR:CG2	45:HN:389:PHE:CE1	3.01	0.43
45:HN:389:PHE:O	45:HN:390:ARG:C	2.55	0.43
44:IA:185:TYR:OH	44:IA:398:MET:HB3	2.18	0.43
44:IA:344:VAL:HG21	44:IA:346:TRP:CE2	2.53	0.43
44:IC:251:ASP:O	44:IC:254:GLU:N	2.51	0.43
44:IE:256:GLN:HA	44:IE:260:VAL:HG23	1.99	0.43
45:IF:151:LEU:HD23	45:IF:151:LEU:C	2.38	0.43
44:IG:33:ASP:O	44:IG:33:ASP:OD1	2.35	0.43
44:IG:66:VAL:HG22	44:IG:68:LEU:CD1	2.48	0.43
44:IG:153:LEU:O	44:IG:157:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:133:PHE:O	45:IH:165:GLU:N	2.33	0.43
45:IH:396:HIS:O	45:IH:399:THR:HG22	2.18	0.43
44:II:387:VAL:HA	44:II:390:ARG:HG2	2.00	0.43
45:IJ:207:LEU:CB	45:IJ:225:LEU:HD22	2.36	0.43
45:IJ:267:MET:HE1	45:IJ:299:MET:HB3	1.99	0.43
44:IK:172:TYR:HB3	44:IK:173:PRO:HD2	2.00	0.43
44:IM:53:PHE:HD1	44:IM:63:PRO:CA	2.28	0.43
44:IM:334:THR:O	44:IM:338:LYS:N	2.48	0.43
44:IM:404:PHE:HE2	45:IN:345:ILE:CD1	2.31	0.43
45:IN:190:HIS:HE1	45:IN:414:ASN:HD22	1.66	0.43
45:IN:192:LEU:HD12	45:IN:196:ALA:HB2	1.99	0.43
44:JA:377:MET:HE2	44:JA:379:SER:HB3	1.99	0.43
45:JB:303:ALA:HB1	45:JB:376:GLU:HB3	2.00	0.43
45:JB:319:GLY:HA3	45:JB:363:MET:CE	2.48	0.43
45:JB:375:GLN:O	45:JB:379:LYS:HE2	2.18	0.43
44:JC:80:THR:HA	44:JC:84:ARG:CD	2.48	0.43
44:JG:172:TYR:CD1	44:JG:203:MET:HE1	2.52	0.43
44:JG:217:LEU:CD1	44:JG:277:SER:HB2	2.34	0.43
44:JG:235:ILE:O	44:JG:239:THR:HG22	2.18	0.43
44:JG:285:GLN:HB2	44:JG:290:GLU:OE2	2.18	0.43
44:JI:313:MET:HE1	44:JI:346:TRP:CZ2	2.49	0.43
44:JI:353:VAL:HG22	44:JI:354:GLY:N	2.33	0.43
45:JJ:206:ALA:HA	45:JJ:209:ASP:OD1	2.19	0.43
44:JM:67:PHE:C	44:JM:68:LEU:HD22	2.38	0.43
45:JN:161:ASP:OD1	45:JN:161:ASP:N	2.47	0.43
45:JN:175:VAL:O	45:JN:175:VAL:HG23	2.18	0.43
45:JN:206:ALA:C	45:JN:210:ILE:HD12	2.39	0.43
45:JN:217:LEU:CG	45:JN:220:PRO:HG3	2.48	0.43
45:JN:249:ASP:OD1	45:JN:252:LYS:HB2	2.18	0.43
44:KA:324:VAL:CG2	44:KA:325:PRO:HD2	2.48	0.43
45:KB:266:PHE:CD1	45:KB:370:ASN:HB2	2.53	0.43
44:KC:250:VAL:HG11	44:KC:255:PHE:HE1	1.83	0.43
45:KD:4:ILE:HG13	45:KD:50:TYR:HE1	1.83	0.43
45:KD:375:GLN:O	45:KD:379:LYS:HG3	2.18	0.43
44:KE:70:LEU:HD11	44:KE:149:LEU:CD2	2.45	0.43
44:KE:145:THR:N	46:KE:501:GTP:O3B	2.40	0.43
45:KF:8:GLN:HE21	45:KF:65:LEU:HD21	1.83	0.43
45:KF:407:GLU:OE1	45:KF:407:GLU:HA	2.17	0.43
44:KG:183:GLU:CG	44:KG:184:PRO:HD3	2.48	0.43
44:KG:229:ARG:HD2	44:KG:363:VAL:HG11	2.00	0.43
44:KG:230:LEU:HD23	44:KG:230:LEU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:326:LYS:NZ	45:KJ:220:PRO:CD	2.78	0.43
45:KH:200:MET:HG3	45:KH:266:PHE:CB	2.41	0.43
44:KI:15:GLN:O	44:KI:18:ASN:HB3	2.16	0.43
44:KI:28:HIS:HE1	44:KI:49:PHE:HA	1.82	0.43
45:KJ:375:GLN:HG3	45:KJ:376:GLU:N	2.33	0.43
45:KJ:396:HIS:CD2	45:KJ:397:TRP:HD1	2.35	0.43
44:KK:251:ASP:H	44:KK:254:GLU:HG3	1.83	0.43
45:KL:101:TRP:HZ2	45:KL:149:THR:HG21	1.83	0.43
45:KL:258:ILE:CD1	45:KL:266:PHE:HZ	2.30	0.43
44:KM:292:THR:HG21	44:KM:331:SER:OG	2.18	0.43
44:LA:9:VAL:HG21	44:LA:149:LEU:HB3	2.00	0.43
44:LA:238:LEU:HD11	44:LA:255:PHE:CE2	2.53	0.43
44:LA:344:VAL:HG11	44:LA:346:TRP:NE1	2.32	0.43
45:LB:102:ALA:HB1	45:LB:401:GLU:CB	2.48	0.43
44:LC:7:ILE:HD13	44:LC:66:VAL:HG11	2.00	0.43
44:LC:174:SER:HB3	44:LC:175:PRO:CD	2.46	0.43
45:LD:293:MET:HE1	45:LD:365:VAL:HG11	2.00	0.43
44:LG:241:SER:OG	44:LG:250:VAL:O	2.35	0.43
44:LG:397:LEU:CD2	45:LH:344:TRP:HA	2.48	0.43
45:LH:242:PHE:CD2	45:LH:356:ILE:HB	2.52	0.43
44:LI:189:LEU:HD11	44:LI:418:PHE:CE2	2.52	0.43
45:LJ:175:VAL:O	45:LJ:175:VAL:HG23	2.17	0.43
45:LL:97:ALA:CB	45:LL:143:THR:HB	2.32	0.43
45:LL:162:ARG:HH11	45:LL:162:ARG:HG2	1.83	0.43
45:LL:257:LEU:HD21	45:LL:314:SER:HB2	2.00	0.43
44:LM:11:GLN:HE22	45:LN:246:LEU:CA	2.28	0.43
44:LM:11:GLN:NE2	44:LM:74:VAL:HG11	2.33	0.43
44:LM:136:LEU:HA	44:LM:167:LEU:O	2.18	0.43
44:LM:270:SER:CB	44:LM:378:ILE:HD13	2.47	0.43
45:LN:173:PRO:CG	45:LN:380:ARG:HD2	2.39	0.43
45:LN:186:THR:O	45:LN:189:VAL:HG22	2.18	0.43
45:LN:263:LEU:HG	45:LN:422:TYR:HD1	1.83	0.43
44:MA:137:VAL:HG12	44:MA:168:GLY:HA2	2.00	0.43
45:MB:273:LEU:N	45:MB:292:GLN:HE22	2.15	0.43
44:MC:288:VAL:HA	44:MC:291:ILE:CG1	2.47	0.43
44:MC:300:ASN:O	44:MC:300:ASN:OD1	2.36	0.43
45:MD:20:PHE:O	45:MD:23:VAL:HG22	2.18	0.43
45:MD:154:LYS:HB2	45:MD:154:LYS:NZ	2.31	0.43
45:MD:319:GLY:HA2	45:MD:355:ASP:O	2.18	0.43
44:ME:387:VAL:HG13	44:ME:433:GLU:OE2	2.18	0.43
45:MF:328:GLU:O	45:MF:332:ASN:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:68:LEU:CD2	44:MG:153:LEU:HD11	2.48	0.43
44:MG:167:LEU:HD21	44:MG:252:ILE:HD11	2.00	0.43
44:MI:51:THR:HG23	44:MI:52:PHE:CD1	2.53	0.43
44:MI:298:PRO:CG	44:MI:308:ARG:HH21	2.28	0.43
44:MI:325:PRO:HG2	45:ML:222:TYR:CD1	2.52	0.43
45:MJ:38:GLY:HA2	45:MJ:43:GLN:NE2	2.33	0.43
45:MJ:189:VAL:HG21	45:MJ:378:PHE:HZ	1.81	0.43
45:MJ:228:LEU:HD22	45:MJ:273:LEU:HD11	1.98	0.43
44:MK:238:LEU:HD23	44:MK:238:LEU:C	2.39	0.43
45:ML:186:THR:HG21	45:ML:385:PHE:CE1	2.53	0.43
44:MM:102:ASN:OD1	44:MM:104:ALA:HB3	2.18	0.43
44:MM:238:LEU:HD23	44:MM:238:LEU:O	2.18	0.43
44:MM:285:GLN:NE2	44:MM:287:SER:OG	2.51	0.43
44:MM:292:THR:HG23	44:MM:293:ASN:N	2.33	0.43
45:MN:99:ASN:OD1	45:MN:141:GLY:HA2	2.18	0.43
45:MN:152:ILE:HD12	45:MN:164:MET:HE2	1.99	0.43
45:MN:238:CYS:HB2	45:MN:318:ARG:HH21	1.83	0.43
44:NC:319:TYR:CE1	44:NC:375:VAL:HG23	2.52	0.43
45:ND:81:PHE:HD2	45:ND:84:LEU:HD11	1.82	0.43
45:ND:181:GLU:HA	45:ND:184:ASN:OD1	2.17	0.43
45:ND:207:LEU:HD11	45:ND:229:VAL:HG23	2.00	0.43
45:ND:286:VAL:CG1	45:ND:325:GLU:HG3	2.48	0.43
45:ND:309:ARG:O	45:ND:372:THR:OG1	2.25	0.43
44:NE:11:GLN:HB2	46:NE:501:GTP:O1B	2.18	0.43
45:NF:350:LYS:CG	45:NF:351:SER:H	2.28	0.43
44:NG:27:GLU:OE2	44:NG:243:ARG:NH2	2.43	0.43
44:NI:265:ILE:HG12	44:NI:432:TYR:CE1	2.53	0.43
45:NJ:60:VAL:HG11	45:NJ:86:ARG:CZ	2.48	0.43
45:NJ:152:ILE:HD12	45:NJ:164:MET:HE2	2.00	0.43
45:NL:100:ASN:ND2	45:NL:397:TRP:HB3	2.33	0.43
45:NL:154:LYS:O	45:NL:157:GLU:HB3	2.18	0.43
44:NM:305:CYS:SG	44:NM:387:VAL:N	2.91	0.43
44:NM:394:LYS:O	44:NM:397:LEU:HB2	2.17	0.43
44:NM:422:ARG:HD2	44:NM:422:ARG:HA	1.72	0.43
45:NN:19:LYS:O	45:NN:22:GLU:HB3	2.18	0.43
45:NN:316:LEU:C	45:NN:317:PHE:HD1	2.21	0.43
44:OA:70:LEU:HD21	44:OA:149:LEU:HD21	1.99	0.43
45:OB:40:SER:OG	45:OB:41:ASP:N	2.50	0.43
45:OB:189:VAL:HB	45:OB:415:MET:HE1	1.99	0.43
45:OB:276:ARG:O	45:OB:279:GLN:N	2.50	0.43
44:OC:227:LEU:O	44:OC:230:LEU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OD:300:MET:HA	45:OD:300:MET:CE	2.34	0.43
45:OF:3:GLU:HA	45:OF:49:VAL:HG23	2.00	0.43
45:OF:74:ASP:HA	45:OF:77:ARG:HH21	1.82	0.43
44:OI:9:VAL:HG21	44:OI:149:LEU:HB2	2.01	0.43
44:OI:298:PRO:HA	44:OI:301:MET:HE3	2.00	0.43
44:OI:387:VAL:HG23	44:OI:388:PHE:N	2.33	0.43
45:OJ:18:ALA:C	45:OJ:19:LYS:HD3	2.38	0.43
45:OJ:67:ASP:OD2	45:OJ:72:THR:HB	2.18	0.43
45:OJ:311:LEU:HA	45:OJ:342:VAL:HG11	1.99	0.43
44:OM:136:LEU:HD21	44:OM:167:LEU:HD12	1.99	0.43
44:OM:217:LEU:HA	44:OM:277:SER:HG	1.83	0.43
45:ON:14:ASN:ND2	45:ON:65:LEU:HD23	2.32	0.43
44:PA:259:LEU:HD11	44:PA:378:ILE:HG21	2.00	0.43
44:PA:413:MET:HE3	44:PA:418:PHE:CE2	2.53	0.43
45:PB:180:VAL:HG22	45:PB:180:VAL:O	2.17	0.43
44:PC:68:LEU:HD21	44:PC:118:CYS:HB2	2.00	0.43
44:PC:182:VAL:C	44:PC:184:PRO:HD2	2.38	0.43
45:PD:10:GLY:HA3	45:PD:143:THR:CG2	2.48	0.43
45:PD:153:SER:HB2	45:PD:191:GLN:HG3	2.00	0.43
44:PE:2:ARG:HD3	44:PE:242:LEU:HD22	1.99	0.43
45:PF:268:ILE:HA	45:PF:367:PHE:O	2.18	0.43
45:PF:268:ILE:CG2	45:PF:368:VAL:HB	2.48	0.43
45:PF:286:VAL:HB	45:PF:287:PRO:HD3	2.00	0.43
45:PF:407:GLU:O	45:PF:410:GLU:N	2.51	0.43
44:PG:235:ILE:O	44:PG:238:LEU:N	2.48	0.43
45:PH:248:SER:OG	45:PH:252:LYS:HB3	2.18	0.43
44:PI:255:PHE:O	44:PI:257:THR:N	2.51	0.43
45:PJ:99:ASN:HA	45:PJ:142:GLY:H	1.83	0.43
45:PJ:119:VAL:HG23	45:PJ:122:LYS:NZ	2.32	0.43
45:PJ:323:THR:HA	45:PJ:326:VAL:CG2	2.48	0.43
45:PL:65:LEU:HD12	45:PL:90:PHE:HZ	1.78	0.43
45:PL:286:VAL:HG23	45:PL:321:MET:CE	2.48	0.43
45:PL:342:VAL:HG22	45:PL:344:TRP:CD1	2.53	0.43
44:PM:278:ALA:HB2	44:PM:369:ALA:CB	2.48	0.43
44:PM:387:VAL:HA	44:PM:390:ARG:NH1	2.33	0.43
45:PN:50:TYR:HA	45:PN:62:ARG:NH1	2.33	0.43
45:PN:127:CYS:SG	45:PN:130:LEU:HB2	2.58	0.43
45:PN:318:ARG:H	45:PN:365:VAL:HG22	1.83	0.43
45:QB:315:ALA:HB3	45:QB:351:SER:HA	2.00	0.43
44:QC:171:ILE:CD1	44:QC:204:LEU:HB2	2.48	0.43
44:QC:276:ILE:HG23	44:QC:281:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:433:GLU:O	44:QC:437:ILE:HG23	2.17	0.43
45:QD:4:ILE:HG22	45:QD:131:GLN:HB3	1.99	0.43
45:QD:61:PRO:HG2	45:QD:84:LEU:O	2.18	0.43
45:QD:105:HIS:HD2	45:QD:149:THR:CG2	2.31	0.43
45:QD:107:THR:CG2	45:QD:108:GLU:N	2.81	0.43
45:QD:328:GLU:O	45:QD:331:LEU:HB3	2.19	0.43
44:QE:149:LEU:O	44:QE:152:LEU:N	2.51	0.43
44:QE:191:THR:HA	44:QE:194:LEU:CD2	2.48	0.43
44:QE:333:ALA:HB2	45:QF:174:LYS:HE2	1.99	0.43
45:QF:42:LEU:O	45:QF:242:PHE:HE1	2.01	0.43
45:QF:258:ILE:HD11	45:QF:266:PHE:CZ	2.53	0.43
44:QI:223:THR:O	44:QI:226:ASN:N	2.51	0.43
44:QI:349:THR:CG2	45:QJ:179:VAL:HA	2.48	0.43
44:QI:370:LYS:O	44:QI:370:LYS:HG3	2.18	0.43
44:QI:420:GLU:O	44:QI:423:GLU:HG2	2.18	0.43
45:QJ:134:GLN:HA	45:QJ:165:GLU:HB2	2.00	0.43
45:QJ:261:PRO:HG2	45:QJ:262:ARG:HH11	1.83	0.43
44:QK:182:VAL:C	44:QK:184:PRO:HD2	2.38	0.43
44:QK:270:SER:HB3	44:QK:378:ILE:CD1	2.48	0.43
44:QK:437:ILE:HG13	44:QK:437:ILE:O	2.17	0.43
45:QL:11:GLN:HE22	45:QL:15:GLN:HG3	1.83	0.43
45:QL:374:ILE:HD12	45:QL:378:PHE:HE2	1.82	0.43
44:QM:141:VAL:HG12	44:QM:171:ILE:O	2.18	0.43
45:QN:141:GLY:O	45:QN:145:SER:HB3	2.17	0.43
45:QN:271:ALA:HB1	45:QN:272:PRO:HA	2.00	0.43
44:RA:248:LEU:HD21	44:RA:353:VAL:O	2.18	0.43
45:RB:172:SER:OG	45:RB:175:VAL:HG22	2.18	0.43
45:RB:256:ASN:HD21	44:RC:182:VAL:HG12	1.83	0.43
44:RC:22:GLU:O	44:RC:25:CYS:N	2.51	0.43
45:RD:267:MET:SD	45:RD:371:SER:HB3	2.57	0.43
45:RD:345:ILE:HD12	44:RE:398:MET:HE1	2.00	0.43
45:RF:102:ALA:HB2	45:RF:398:TYR:HD1	1.80	0.43
45:RF:210:ILE:O	45:RF:214:THR:OG1	2.20	0.43
45:RF:334:GLN:HB2	45:RF:349:ILE:HD11	1.99	0.43
44:RG:115:VAL:HG22	44:RG:119:LEU:HD23	1.99	0.43
44:RG:150:GLY:O	44:RG:154:LEU:HG	2.17	0.43
44:RG:344:VAL:HG22	44:RG:345:ASP:N	2.33	0.43
44:RG:422:ARG:O	44:RG:425:LEU:N	2.51	0.43
45:RH:4:ILE:HB	45:RH:132:GLY:O	2.18	0.43
44:RI:233:GLN:HG3	44:RI:272:TYR:HH	1.82	0.43
44:RI:275:ILE:HG23	44:RI:368:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:354:GLY:O	44:RI:355:ILE:HD13	2.18	0.43
44:RI:428:LEU:HG	44:RI:432:TYR:CD2	2.53	0.43
45:RJ:267:MET:HG2	45:RJ:369:GLY:O	2.18	0.43
45:RJ:325:GLU:O	45:RJ:328:GLU:HG2	2.18	0.43
45:RJ:356:ILE:HD12	45:RJ:357:PRO:HD2	2.00	0.43
44:RK:54:SER:HB3	44:RK:64:ARG:NH1	2.32	0.43
45:RL:389:PHE:O	45:RL:392:LYS:HD3	2.18	0.43
44:RM:119:LEU:C	44:RM:123:ARG:HB2	2.38	0.43
44:RM:320:ARG:N	44:RM:374:ALA:O	2.51	0.43
45:RN:248:SER:OG	45:RN:252:LYS:HD2	2.18	0.43
44:SA:426:ALA:HA	44:SA:429:GLU:OE1	2.18	0.43
45:SB:4:ILE:HD11	45:SB:50:TYR:OH	2.17	0.43
45:SB:130:LEU:CD2	45:SB:162:ARG:HG3	2.48	0.43
44:SC:6:SER:HB2	44:SC:8:HIS:NE2	2.33	0.43
44:SC:14:ILE:HD13	44:SC:75:ILE:HG12	2.00	0.43
44:SC:211:ASP:N	44:SC:214:ARG:HH11	2.16	0.43
44:SC:273:ALA:O	44:SC:375:VAL:HG12	2.18	0.43
45:SD:7:ILE:C	45:SD:135:ILE:HD12	2.38	0.43
45:SD:102:ALA:HB3	45:SD:401:GLU:HB2	1.99	0.43
45:SD:131:GLN:O	45:SD:163:ILE:HG12	2.17	0.43
45:SD:153:SER:HA	45:SD:195:ASN:HD22	1.82	0.43
45:SD:178:THR:CG2	45:SD:180:VAL:HG12	2.47	0.43
45:SD:183:TYR:OH	45:SD:388:MET:HG2	2.18	0.43
45:SF:175:VAL:O	45:SF:175:VAL:HG23	2.17	0.43
45:SF:322:SER:OG	44:SG:221:ARG:NH2	2.51	0.43
44:SG:6:SER:O	44:SG:7:ILE:HD13	2.17	0.43
44:SG:194:LEU:HD12	44:SG:194:LEU:C	2.38	0.43
45:SH:143:THR:HG23	45:SH:144:GLY:N	2.33	0.43
45:SH:305:PRO:HA	45:SH:373:ALA:CB	2.48	0.43
44:SI:22:GLU:OE2	44:SI:83:TYR:HE2	2.00	0.43
44:SI:100:ALA:HB3	44:SI:105:ARG:HH21	1.78	0.43
44:SK:276:ILE:HG12	44:SK:281:ALA:CA	2.47	0.43
44:SK:319:TYR:CE2	44:SK:328:VAL:HG22	2.52	0.43
45:SL:262:ARG:HH22	45:SL:418:LEU:HB2	1.83	0.43
45:SL:323:THR:HG21	44:SM:224:TYR:CD2	2.53	0.43
44:SM:259:LEU:HD21	44:SM:316:SER:HB2	1.99	0.43
45:SN:231:ALA:HB1	45:SN:270:PHE:CE2	2.53	0.43
45:TB:69:GLU:OE2	45:TB:72:THR:HG22	2.18	0.43
44:TC:171:ILE:HA	44:TC:204:LEU:HB2	2.00	0.43
44:TC:225:THR:OG1	44:TC:226:ASN:N	2.51	0.43
44:TC:256:GLN:CG	45:TD:397:TRP:HE1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TC:277:SER:OG	44:TC:280:LYS:HE3	2.18	0.43
44:TC:355:ILE:HG13	44:TC:355:ILE:O	2.18	0.43
45:TD:242:PHE:CG	45:TD:356:ILE:HG13	2.53	0.43
44:TE:1:MET:O	44:TE:131:GLY:HA3	2.17	0.43
44:TE:26:LEU:HD22	44:TE:363:VAL:HG23	1.99	0.43
44:TE:82:THR:HG23	44:TE:83:TYR:CE1	2.53	0.43
44:TE:183:GLU:N	44:TE:183:GLU:OE2	2.45	0.43
45:TF:131:GLN:HG3	45:TF:163:ILE:CG1	2.48	0.43
44:TG:5:ILE:HG22	44:TG:6:SER:N	2.34	0.43
44:TG:206:ASN:O	44:TG:209:ILE:N	2.46	0.43
44:TG:387:VAL:O	44:TG:391:LEU:HD13	2.18	0.43
44:TI:89:PRO:HG3	44:UI:280:LYS:HG3	1.96	0.43
44:TI:241:SER:HB2	44:TI:250:VAL:N	2.12	0.43
44:TI:349:THR:HG23	44:TI:349:THR:O	2.18	0.43
44:TI:372:MET:O	44:TI:373:ARG:HG3	2.17	0.43
45:TJ:245:GLN:C	45:TJ:246:LEU:HD12	2.38	0.43
44:TK:9:VAL:HG22	44:TK:10:GLY:N	2.33	0.43
44:TK:175:PRO:HD2	44:TK:207:GLU:OE1	2.18	0.43
44:TK:335:ILE:HD12	44:TK:335:ILE:H	1.82	0.43
45:TL:11:GLN:O	45:TL:14:ASN:OD1	2.36	0.43
45:TL:246:LEU:HD21	45:TL:252:LYS:CE	2.47	0.43
45:TL:284:LEU:HB3	45:TL:363:MET:HE2	1.98	0.43
44:TM:225:THR:CB	44:TM:229:ARG:HH21	2.31	0.43
44:UA:135:PHE:HD2	44:UA:165:SER:O	2.01	0.43
45:UB:138:SER:HA	45:UB:169:VAL:O	2.18	0.43
45:UB:379:LYS:O	45:UB:383:GLU:N	2.39	0.43
45:UB:398:TYR:O	45:UB:403:MET:HB3	2.17	0.43
44:UC:328:VAL:O	44:UC:332:ILE:HG12	2.17	0.43
45:UD:101:TRP:H	45:UD:398:TYR:HE1	1.66	0.43
45:UD:141:GLY:O	45:UD:145:SER:HB3	2.17	0.43
45:UD:375:GLN:O	45:UD:378:PHE:HB2	2.18	0.43
44:UE:269:LEU:CD1	44:UE:301:MET:HB3	2.45	0.43
44:UE:431:ASP:HA	44:UE:434:GLU:HB3	2.00	0.43
45:UF:92:PHE:O	45:UF:112:LEU:HD11	2.17	0.43
45:UF:345:ILE:HA	44:UG:398:MET:HE1	2.00	0.43
45:UF:385:PHE:HE2	45:UF:412:GLU:HB2	1.81	0.43
44:UG:246:GLY:HA3	44:UG:249:ASN:OD1	2.18	0.43
45:UH:49:VAL:HG11	45:UH:240:LEU:HD21	1.97	0.43
45:UH:346:PRO:CD	44:UI:397:LEU:HD13	2.48	0.43
45:UJ:139:LEU:HD12	45:UJ:139:LEU:N	2.33	0.43
45:UJ:263:LEU:HG	45:UJ:422:TYR:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:344:VAL:CG1	44:UK:347:CYS:HB3	2.47	0.43
45:UL:286:VAL:HB	45:UL:287:PRO:HD3	2.00	0.43
44:UM:145:THR:O	44:UM:149:LEU:HD23	2.18	0.43
44:VA:35:GLN:OE1	44:VA:60:LYS:N	2.51	0.43
44:VC:70:LEU:HD12	44:VC:145:THR:OG1	2.18	0.43
44:VC:143:GLY:HA3	46:VC:501:GTP:O2B	2.18	0.43
44:VC:221:ARG:NH1	45:VD:325:GLU:HB2	2.33	0.43
45:VD:135:ILE:HG22	45:VD:137:HIS:CE1	2.53	0.43
45:VD:289:LEU:HD13	45:VD:365:VAL:HG23	2.00	0.43
45:VD:299:MET:HG3	45:VD:305:PRO:HG3	2.00	0.43
45:VD:326:VAL:HG11	45:VD:353:ILE:HD11	2.00	0.43
44:VE:102:ASN:CB	44:VE:105:ARG:HG3	2.47	0.43
44:VE:215:ARG:HH11	44:VE:215:ARG:HG2	1.82	0.43
45:VF:60:VAL:HB	45:VF:86:ARG:NH2	2.32	0.43
45:VH:12:CYS:HB2	48:VH:501:GDP:O4'	2.18	0.43
45:VH:311:LEU:HA	45:VH:342:VAL:CG1	2.47	0.43
45:VH:413:SER:O	45:VH:417:ASP:HB2	2.18	0.43
45:VJ:3:GLU:OE2	45:VJ:128:ASP:N	2.41	0.43
44:VK:9:VAL:C	44:VK:13:GLY:HA3	2.38	0.43
44:VK:90:GLU:O	44:VK:90:GLU:HG3	2.17	0.43
45:VL:267:MET:HE3	45:VL:301:CYS:SG	2.58	0.43
44:VM:54:SER:HA	44:VM:64:ARG:NH2	2.33	0.43
44:VM:296:PHE:HE1	44:VM:317:MET:CE	2.31	0.43
45:VN:64:ILE:HG13	45:VN:89:ASN:CG	2.38	0.43
45:VN:358:PRO:HG2	45:VN:364:ALA:CB	2.48	0.43
44:WA:24:PHE:HZ	44:WA:235:ILE:CG2	2.30	0.43
44:WA:219:ILE:HG22	44:WA:222:PRO:CD	2.48	0.43
45:WB:62:ARG:NE	45:WB:62:ARG:HA	2.32	0.43
44:WC:144:GLY:HA3	46:WC:501:GTP:O2G	2.18	0.43
44:WC:156:ARG:O	44:WC:159:VAL:HG12	2.18	0.43
45:WD:169:VAL:HG22	45:WD:202:ILE:HG21	2.00	0.43
45:WD:286:VAL:HB	45:WD:287:PRO:HD3	1.98	0.43
45:WF:91:VAL:HG21	45:WF:115:SER:OG	2.18	0.43
44:WG:141:VAL:HG11	44:WG:172:TYR:CE1	2.52	0.43
44:WG:356:ASN:OD1	44:WG:357:TYR:N	2.48	0.43
44:WG:362:VAL:HG13	44:WG:362:VAL:O	2.18	0.43
45:WH:229:VAL:O	45:WH:232:ALA:HB3	2.18	0.43
44:WI:68:LEU:CD1	44:WI:153:LEU:HD11	2.48	0.43
44:WI:70:LEU:HB3	44:WI:97:GLU:O	2.18	0.43
44:WI:122:ILE:O	44:WI:125:LEU:HB2	2.18	0.43
45:WJ:105:HIS:HD2	45:WJ:146:GLY:O	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WJ:134:GLN:HA	45:WJ:165:GLU:O	2.17	0.43
44:WK:23:LEU:HD22	44:WK:233:GLN:HA	2.00	0.43
44:WK:55:GLU:OE2	44:WK:57:GLY:N	2.50	0.43
44:WK:122:ILE:HG22	44:WK:161:TYR:CE1	2.53	0.43
45:WL:133:PHE:HB2	45:WL:164:MET:CE	2.48	0.43
45:WN:109:GLY:O	45:WN:113:ILE:HB	2.17	0.43
45:WN:304:ASP:CG	45:WN:306:ARG:HG2	2.39	0.43
7:0F:209:LYS:HD2	44:FC:279:GLU:CG	2.38	0.43
8:0G:174:SER:HB3	44:LM:326:LYS:NZ	2.34	0.43
15:0V:74:VAL:HG12	45:MN:306:ARG:CD	2.40	0.43
4:1C:73:PRO:HG3	45:DL:55:THR:CB	2.48	0.43
4:1C:93:LYS:HZ1	44:EM:26:LEU:HD13	1.83	0.43
8:1G:112:LYS:CE	44:JA:364:PRO:HG2	2.48	0.43
9:1H:257:GLU:CD	44:HE:364:PRO:HB2	2.39	0.43
20:1J:50:LYS:NZ	45:HD:53:GLU:HG3	2.33	0.43
10:1N:248:ASN:ND2	45:KJ:78:ALA:HB2	2.18	0.43
24:1O:264:ILE:HG23	44:UA:282:TYR:CE2	2.53	0.43
25:1P:391:ARG:CG	44:TA:370:LYS:HE3	2.35	0.43
5:2D:82:TYR:O	45:EJ:42:LEU:HD13	2.17	0.43
29:2F:91:TRP:NE1	44:GE:116:ASP:OD2	2.51	0.43
24:2O:148:MET:HG3	44:VK:370:LYS:HZ1	1.78	0.43
24:2O:176:ARG:HB3	45:VL:362:LYS:HZ2	1.82	0.43
27:2W:190:VAL:CG2	44:KM:47:ASP:HB2	2.45	0.43
16:2X:107:ASP:HB2	44:MG:278:ALA:HB1	2.01	0.43
34:4F:139:ALA:HB1	44:IK:359:PRO:CG	2.41	0.43
37:5D:19:ARG:HE	45:KN:417:ASP:H	1.66	0.43
37:5D:42:SER:N	44:KK:346:TRP:CZ2	2.86	0.43
37:5D:55:ALA:H	44:KK:345:ASP:CB	2.19	0.43
38:5E:124:TYR:HE2	44:OA:278:ALA:HA	1.82	0.43
38:5G:42:TYR:CD2	44:OG:281:ALA:HB1	2.52	0.43
38:5G:165:PRO:C	38:5G:166:ARG:HD2	2.39	0.43
38:5G:212:THR:O	38:5G:212:THR:HG22	2.18	0.43
39:5J:22:TRP:O	39:5J:25:VAL:HB	2.18	0.43
39:5K:25:VAL:HA	39:5K:28:LYS:NZ	2.32	0.43
39:5K:36:TYR:CZ	44:NK:309:HIS:HA	2.54	0.43
35:5R:113:ILE:HD12	35:5R:113:ILE:N	2.33	0.43
35:5R:395:ALA:O	35:5R:398:LEU:N	2.51	0.43
35:5R:487:GLU:HB3	35:5R:523:PHE:CZ	2.53	0.43
36:5S:86:LYS:HG3	36:5S:87:ILE:N	2.33	0.43
41:6G:154:GLY:HA2	41:6G:157:LEU:HD11	2.00	0.43
35:7R:469:LYS:H	45:EB:77:ARG:HH21	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7R:546:ASP:HA	35:7R:549:MET:HE2	2.00	0.43
42:8L:33:UNK:O	42:8L:36:UNK:N	2.51	0.43
44:AA:132:LEU:HD23	44:AA:164:LYS:CE	2.47	0.43
44:AA:205:ASP:CG	44:AA:304:LYS:H	2.14	0.43
45:AF:156:ARG:HG3	45:AF:195:ASN:HB3	2.00	0.43
45:AF:217:LEU:HD11	45:AF:220:PRO:HG3	2.00	0.43
45:AF:240:LEU:HD12	45:AF:240:LEU:O	2.18	0.43
44:AG:114:ILE:O	44:AG:114:ILE:HG22	2.18	0.43
45:AH:86:ARG:CD	45:BH:281:TYR:HB2	2.42	0.43
45:AH:143:THR:HG22	48:AH:501:GDP:O2B	2.19	0.43
45:AH:217:LEU:CD1	45:AH:220:PRO:HG3	2.48	0.43
45:AH:317:PHE:HE2	45:AH:326:VAL:HG13	1.81	0.43
45:AH:318:ARG:HH11	45:AH:358:PRO:HG3	1.82	0.43
45:AH:396:HIS:HA	45:AH:399:THR:CG2	2.47	0.43
44:AI:22:GLU:HG3	44:AI:83:TYR:CZ	2.53	0.43
44:AI:267:PHE:CD2	44:AI:388:PHE:HZ	2.36	0.43
44:AI:344:VAL:HG11	44:AI:346:TRP:NE1	2.33	0.43
45:AJ:47:ILE:HG13	45:AJ:51:TYR:HB2	2.00	0.43
45:AJ:47:ILE:O	45:AJ:51:TYR:HB2	2.17	0.43
45:AL:281:TYR:CD2	45:ML:86:ARG:HA	2.53	0.43
44:AM:287:SER:HA	44:AM:373:ARG:NH2	2.29	0.43
45:AN:290:THR:HG23	45:AN:291:GLN:N	2.33	0.43
45:AN:328:GLU:O	45:AN:332:ASN:N	2.37	0.43
44:BA:24:PHE:HA	44:BA:27:GLU:HG3	2.00	0.43
44:BA:88:HIS:HB3	44:BA:91:GLN:HG2	2.00	0.43
44:BA:133:GLN:HB2	44:BA:252:ILE:HD12	2.00	0.43
44:BA:217:LEU:HB3	44:BA:219:ILE:CD1	2.48	0.43
45:BB:415:MET:O	45:BB:419:VAL:HG23	2.18	0.43
44:BC:200:VAL:HG13	44:BC:268:MET:HE1	1.98	0.43
44:BC:315:CYS:SG	44:BC:377:MET:HE2	2.57	0.43
45:BD:70:PRO:HG3	45:BD:93:GLY:O	2.17	0.43
45:BF:68:LEU:HG	45:BF:68:LEU:O	2.18	0.43
44:BG:306:ASP:OD1	44:BG:308:ARG:N	2.48	0.43
45:BH:143:THR:OG1	48:BH:502:GDP:PB	2.75	0.43
45:BH:279:GLN:NE2	45:BH:358:PRO:HG2	2.32	0.43
45:BJ:211:CYS:SG	45:BJ:215:LEU:HD12	2.58	0.43
45:BJ:316:LEU:HA	45:BJ:352:SER:OG	2.19	0.43
44:BK:215:ARG:NH2	44:BK:299:ALA:HB1	2.33	0.43
44:BK:221:ARG:NE	45:BL:322:SER:HB3	2.33	0.43
44:BK:269:LEU:HD23	44:BK:379:SER:O	2.18	0.43
45:BL:21:TRP:CH2	45:BL:61:PRO:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:115:VAL:HG11	44:BM:152:LEU:HD21	1.98	0.43
45:BN:8:GLN:CD	45:BN:14:ASN:HA	2.39	0.43
45:BN:290:THR:OG1	45:BN:333:VAL:HG21	2.17	0.43
44:CC:51:THR:HG22	44:CC:52:PHE:CE1	2.53	0.43
44:CC:143:GLY:HA3	46:CC:501:GTP:O2B	2.18	0.43
44:CC:231:ILE:O	44:CC:235:ILE:HG12	2.18	0.43
45:CD:372:THR:HA	45:CD:422:TYR:CE2	2.42	0.43
44:CE:344:VAL:HG22	44:CE:345:ASP:N	2.33	0.43
44:CG:103:PHE:HD1	44:CG:147:SER:HG	1.65	0.43
44:CG:209:ILE:HB	44:CG:227:LEU:CD1	2.48	0.43
45:CH:16:ILE:HG23	45:CH:229:VAL:HG11	1.97	0.43
44:CI:29:GLY:HA3	44:CI:42:ILE:HD13	2.00	0.43
44:CI:384:ILE:HG23	44:CI:387:VAL:HG21	2.00	0.43
45:CJ:139:LEU:CD1	45:CJ:168:SER:HB3	2.38	0.43
45:CJ:324:LYS:HE3	44:CK:210:TYR:CD1	2.53	0.43
44:CK:140:SER:O	44:CK:146:GLY:HA3	2.18	0.43
44:CK:147:SER:O	44:CK:151:SER:N	2.39	0.43
45:CL:173:PRO:HG2	45:CL:380:ARG:HD3	1.97	0.43
45:CL:350:LYS:HD2	44:CM:181:VAL:HG13	1.99	0.43
45:CN:63:ALA:O	45:CN:89:ASN:CB	2.66	0.43
45:DB:162:ARG:NE	45:DB:162:ARG:HA	2.33	0.43
45:DB:235:GLY:HA3	45:DB:366:THR:OG1	2.19	0.43
44:DC:326:LYS:HG2	45:DD:220:PRO:HD2	1.99	0.43
44:DE:93:ILE:H	44:DE:93:ILE:HD12	1.83	0.43
44:DE:315:CYS:SG	44:DE:316:SER:N	2.92	0.43
45:DF:113:ILE:CD1	45:DF:150:LEU:HD22	2.45	0.43
44:DG:81:GLY:O	44:DG:84:ARG:HG2	2.18	0.43
44:DG:264:ARG:HH21	44:DG:431:ASP:CA	2.31	0.43
45:DH:7:ILE:HB	45:DH:135:ILE:HD13	2.00	0.43
45:DH:97:ALA:HB3	45:DH:143:THR:HB	2.00	0.43
45:DH:242:PHE:CE2	45:DH:356:ILE:HG21	2.53	0.43
45:DJ:24:ILE:HD12	45:DJ:24:ILE:H	1.83	0.43
45:DJ:186:THR:HA	45:DJ:189:VAL:HG12	1.98	0.43
45:DJ:345:ILE:HG23	45:DJ:348:ASN:ND2	2.33	0.43
44:DK:385:ALA:O	44:DK:388:PHE:HB2	2.18	0.43
44:DM:23:LEU:O	44:DM:26:LEU:HB3	2.19	0.43
44:DM:145:THR:H	46:DM:501:GTP:PG	2.41	0.43
44:DM:175:PRO:HG2	44:DM:304:LYS:HG3	2.00	0.43
45:DN:258:ILE:HG22	45:DN:260:PHE:O	2.18	0.43
45:DN:258:ILE:CD1	45:DN:266:PHE:HZ	2.31	0.43
44:EA:352:LYS:N	44:EA:352:LYS:HD3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:39:ASP:H	45:EB:43:GLN:CD	2.22	0.43
45:EB:135:ILE:O	45:EB:167:PHE:N	2.50	0.43
45:EB:161:ASP:OD1	45:EB:162:ARG:HG2	2.18	0.43
45:ED:247:ASN:OD1	45:ED:247:ASN:C	2.57	0.43
45:ED:285:THR:HG23	45:ED:288:GLU:H	1.82	0.43
44:EE:63:PRO:HG2	44:EE:86:LEU:HG	2.00	0.43
44:EE:188:ILE:HA	44:EE:191:THR:CB	2.48	0.43
44:EE:251:ASP:HB2	44:EE:254:GLU:CG	2.43	0.43
44:EE:265:ILE:HD13	44:EE:432:TYR:HE1	1.83	0.43
45:EF:69:GLU:O	45:EF:73:MET:HE2	2.18	0.43
45:EF:246:LEU:HD13	44:EG:224:TYR:CD2	2.53	0.43
44:EG:115:VAL:HG11	44:EG:152:LEU:HD23	1.99	0.43
45:EH:20:PHE:CA	45:EH:23:VAL:HG22	2.48	0.43
44:EI:145:THR:HG21	46:EI:501:GTP:O1B	2.18	0.43
44:EK:79:ARG:HD3	44:EK:92:LEU:CD1	2.47	0.43
44:EK:205:ASP:CG	44:EK:304:LYS:H	2.15	0.43
44:EK:276:ILE:HD12	44:EK:281:ALA:CB	2.48	0.43
44:EK:315:CYS:HG	44:EK:351:PHE:HA	1.82	0.43
45:EL:117:LEU:HG	45:EL:121:ARG:NH2	2.33	0.43
45:EL:318:ARG:HH11	45:EL:358:PRO:CD	2.31	0.43
44:EM:141:VAL:HG11	44:EM:172:TYR:CD1	2.49	0.43
44:EM:195:LEU:HD11	44:EM:428:LEU:CD1	2.49	0.43
44:EM:236:SER:HA	44:EM:243:ARG:HH21	1.83	0.43
45:EN:16:ILE:HD12	45:EN:229:VAL:HG11	2.00	0.43
45:EN:117:LEU:HD12	45:EN:120:VAL:CG1	2.48	0.43
44:FA:189:LEU:O	44:FA:192:HIS:N	2.50	0.43
44:FA:385:ALA:O	44:FA:388:PHE:HB2	2.18	0.43
44:FC:233:GLN:HB3	44:FC:272:TYR:CZ	2.54	0.43
44:FC:337:THR:O	44:FC:337:THR:HG22	2.17	0.43
44:FE:14:ILE:CD1	44:FE:75:ILE:HD11	2.48	0.43
44:FE:288:VAL:O	44:FE:291:ILE:HG12	2.18	0.43
45:FF:270:PHE:CD2	45:FF:273:LEU:HD21	2.53	0.43
45:FH:350:LYS:HG3	45:FH:351:SER:N	2.33	0.43
44:FI:234:VAL:HG21	44:FI:302:MET:CE	2.48	0.43
44:FI:398:MET:CE	45:FJ:345:ILE:HG13	2.47	0.43
45:FJ:74:ASP:OD1	45:FJ:77:ARG:NH2	2.40	0.43
45:FJ:348:ASN:OD1	45:FJ:348:ASN:C	2.57	0.43
45:FL:250:LEU:HD23	45:FL:250:LEU:HA	1.80	0.43
44:FM:70:LEU:HD11	44:FM:149:LEU:HD21	1.99	0.43
45:FN:288:GLU:HA	45:FN:291:GLN:HG2	1.99	0.43
45:FN:381:VAL:O	45:FN:385:PHE:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:103:PHE:CD2	44:GA:189:LEU:HD12	2.52	0.43
44:GA:321:GLY:O	44:GA:357:TYR:HA	2.18	0.43
44:GA:349:THR:OG1	45:GD:176:SER:OG	1.89	0.43
44:GC:112:LYS:HG3	44:GC:113:GLU:N	2.32	0.43
44:GC:302:MET:HG3	44:GC:302:MET:O	2.18	0.43
45:GD:141:GLY:HA2	48:GD:503:GDP:PA	2.58	0.43
44:GE:235:ILE:O	44:GE:239:THR:HG23	2.17	0.43
45:GH:66:MET:HB3	45:GH:116:VAL:HG21	1.99	0.43
45:GH:172:SER:OG	45:GH:173:PRO:HD2	2.18	0.43
44:GI:102:ASN:OD1	44:GI:104:ALA:HB3	2.18	0.43
44:GI:222:PRO:CD	45:GJ:324:LYS:HE3	2.42	0.43
44:GK:80:THR:O	44:GK:80:THR:CG2	2.65	0.43
44:GK:99:ALA:HB3	44:GK:145:THR:HG23	2.01	0.43
44:GK:141:VAL:HG11	44:GK:173:PRO:HD3	2.01	0.43
44:GK:176:GLN:HG2	44:GK:177:VAL:N	2.33	0.43
44:GK:183:GLU:CG	44:GK:184:PRO:HD3	2.48	0.43
45:GL:173:PRO:HG2	45:GL:380:ARG:HB2	2.00	0.43
44:GM:306:ASP:HB3	44:GM:309:HIS:CG	2.53	0.43
44:GM:319:TYR:CZ	44:GM:328:VAL:HG22	2.53	0.43
44:HA:272:TYR:HD2	44:HA:275:ILE:CG1	2.31	0.43
44:HA:338:LYS:HD2	44:HA:339:ARG:H	1.83	0.43
45:HB:32:PRO:HB3	45:HB:81:PHE:HA	2.01	0.43
45:HB:91:VAL:HG21	45:HB:116:VAL:HG12	1.99	0.43
45:HB:260:PHE:HB3	45:HB:261:PRO:HD2	2.00	0.43
45:HB:304:ASP:OD1	45:HB:305:PRO:HD2	2.18	0.43
44:HC:188:ILE:HD12	44:HC:425:LEU:CD1	2.49	0.43
44:HC:265:ILE:HD12	44:HC:435:VAL:HG21	1.99	0.43
44:HC:282:TYR:O	44:HC:283:HIS:HD2	2.01	0.43
45:HD:9:GLY:HA3	45:HD:66:MET:HE3	2.00	0.43
44:HG:23:LEU:HD21	44:HG:236:SER:HB2	2.00	0.43
44:HG:202:VAL:HG11	44:HG:270:SER:HB2	1.99	0.43
45:HH:4:ILE:HD11	45:HH:50:TYR:CE1	2.52	0.43
44:HK:145:THR:HG22	46:HK:501:GTP:PG	2.58	0.43
44:HK:385:ALA:HA	44:HK:388:PHE:HD2	1.83	0.43
45:HL:6:HIS:HE2	45:HL:8:GLN:HB3	1.83	0.43
45:HL:200:MET:HE2	45:HL:268:ILE:HD13	2.00	0.43
45:HL:341:PHE:HE2	45:HL:349:ILE:HD11	1.77	0.43
44:HM:3:GLU:N	44:HM:3:GLU:OE1	2.51	0.43
44:HM:242:LEU:HD11	44:HM:252:ILE:HG13	1.99	0.43
45:HN:113:ILE:HD12	45:HN:150:LEU:HD13	2.00	0.43
45:HN:386:THR:H	45:HN:388:MET:N	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IA:344:VAL:HG11	44:IA:346:TRP:CZ2	2.53	0.43
45:IB:99:ASN:HA	45:IB:142:GLY:CA	2.48	0.43
45:IB:167:PHE:CE2	45:IB:233:MET:HE3	2.53	0.43
45:IB:207:LEU:HD12	45:IB:225:LEU:HB3	1.99	0.43
44:IC:205:ASP:CG	44:IC:303:ALA:HA	2.38	0.43
44:IC:356:ASN:OD1	44:IC:357:TYR:N	2.51	0.43
45:ID:143:THR:HG22	48:ID:502:GDP:PB	2.58	0.43
44:IE:229:ARG:HB2	44:IE:229:ARG:CZ	2.46	0.43
44:IE:276:ILE:HG12	44:IE:281:ALA:CB	2.45	0.43
44:IE:301:MET:HE2	44:IE:301:MET:CA	2.48	0.43
45:IF:68:LEU:HG	45:IF:68:LEU:O	2.18	0.43
44:IG:417:GLU:O	44:IG:420:GLU:HG2	2.18	0.43
44:II:311:LYS:HB2	44:II:344:VAL:HG22	2.00	0.43
44:IK:422:ARG:HH11	44:IK:426:ALA:HB2	1.80	0.43
45:IL:170:VAL:HG13	45:IL:203:ASP:OD1	2.18	0.43
45:IL:383:GLU:O	45:IL:386:THR:HG22	2.18	0.43
44:IM:223:THR:HB	45:IN:322:SER:HB2	2.00	0.43
45:JB:1:MET:O	45:JB:2:ARG:HG3	2.19	0.43
44:JC:118:CYS:SG	44:JC:153:LEU:HD21	2.58	0.43
45:JD:32:PRO:HG3	45:JD:81:PHE:CE1	2.51	0.43
44:JG:223:THR:CG2	44:JG:226:ASN:H	2.30	0.43
44:JG:269:LEU:CD1	44:JG:301:MET:CE	2.92	0.43
44:JG:320:ARG:HG3	44:JG:360:PRO:HG3	2.00	0.43
45:JH:139:LEU:HD23	45:JH:188:SER:OG	2.18	0.43
45:JH:164:MET:HE1	45:JH:196:ALA:HA	1.99	0.43
45:JH:221:THR:CG2	45:JH:222:TYR:H	2.30	0.43
45:JH:286:VAL:N	45:JH:287:PRO:CD	2.81	0.43
45:JH:287:PRO:O	45:JH:290:THR:HG22	2.18	0.43
45:JJ:200:MET:HE3	45:JJ:268:ILE:HG21	2.00	0.43
45:JJ:375:GLN:HB2	45:JJ:379:LYS:HZ2	1.82	0.43
44:JK:250:VAL:HG23	44:JK:250:VAL:O	2.18	0.43
45:JL:5:VAL:HG12	45:JL:6:HIS:N	2.33	0.43
45:JL:274:THR:CG2	45:JL:282:ARG:HH21	2.31	0.43
44:JM:231:ILE:O	44:JM:235:ILE:HG12	2.17	0.43
45:JN:143:THR:HG22	48:JN:501:GDP:PB	2.58	0.43
44:KA:145:THR:HG23	44:KA:146:GLY:N	2.32	0.43
45:KB:133:PHE:HB2	45:KB:164:MET:HE1	1.99	0.43
45:KB:154:LYS:HD3	45:KB:154:LYS:C	2.39	0.43
44:KC:145:THR:HG22	46:KC:501:GTP:O3G	2.18	0.43
45:KD:86:ARG:HA	45:KD:86:ARG:NE	2.33	0.43
45:KD:167:PHE:HE1	45:KD:233:MET:CG	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:189:VAL:HG21	45:KD:378:PHE:CZ	2.53	0.43
45:KD:318:ARG:HH21	45:KD:358:PRO:CG	2.31	0.43
44:KG:221:ARG:NH2	45:KH:324:LYS:HD2	2.33	0.43
44:KG:288:VAL:CA	44:KG:291:ILE:HG12	2.43	0.43
44:KG:324:VAL:HG21	44:KG:326:LYS:CE	2.48	0.43
45:KH:293:MET:CE	45:KH:367:PHE:HD1	2.30	0.43
44:KI:7:ILE:HD13	44:KI:66:VAL:HG22	2.00	0.43
44:KI:60:LYS:HD2	44:LI:282:TYR:CE1	2.54	0.43
44:KI:406:HIS:CE1	44:KI:407:TRP:CD1	3.06	0.43
45:KJ:86:ARG:HD2	45:LJ:281:TYR:CE1	2.54	0.43
45:KL:10:GLY:O	45:KL:14:ASN:N	2.47	0.43
44:KM:151:SER:O	44:KM:154:LEU:HB2	2.18	0.43
44:KM:209:ILE:HG21	44:KM:227:LEU:HA	1.99	0.43
45:KN:54:ALA:HA	45:LN:283:ALA:HB2	2.00	0.43
45:KN:127:CYS:SG	45:KN:130:LEU:HB2	2.59	0.43
44:LA:115:VAL:HG11	44:LA:152:LEU:CD2	2.47	0.43
44:LA:217:LEU:HD23	44:LA:367:ASP:HB3	1.99	0.43
44:LA:271:SER:HB2	44:LA:301:MET:HE1	2.00	0.43
44:LA:296:PHE:CE1	44:LA:377:MET:HE1	2.53	0.43
44:LC:271:SER:HB3	44:LC:377:MET:CE	2.47	0.43
45:LD:6:HIS:ND1	45:LD:134:GLN:HG3	2.33	0.43
45:LD:294:PHE:CE1	45:LD:333:VAL:HG11	2.53	0.43
45:LF:45:GLU:O	45:LF:46:ARG:HD2	2.17	0.43
44:LG:265:ILE:HG23	44:LG:432:TYR:CZ	2.53	0.43
45:LH:10:GLY:O	45:LH:13:GLY:N	2.52	0.43
44:LI:229:ARG:NH2	44:LI:363:VAL:HG12	2.34	0.43
45:LJ:257:LEU:HD21	45:LJ:368:VAL:HG12	2.00	0.43
44:LK:224:TYR:HE2	45:LL:246:LEU:HD11	1.83	0.43
44:LK:319:TYR:HB2	44:LK:355:ILE:HD13	2.00	0.43
45:LL:186:THR:HG23	45:LL:187:LEU:N	2.32	0.43
45:LL:238:CYS:SG	45:LL:239:CYS:N	2.91	0.43
44:LM:216:ASN:HD22	44:LM:275:ILE:CG2	2.21	0.43
44:LM:276:ILE:HG23	44:LM:280:LYS:CG	2.44	0.43
45:LN:7:ILE:HG22	45:LN:64:ILE:HB	1.99	0.43
45:LN:305:PRO:HA	45:LN:373:ALA:CB	2.48	0.43
44:MC:313:MET:HE2	44:MC:435:VAL:CG1	2.48	0.43
44:MC:384:ILE:O	44:MC:384:ILE:HG13	2.18	0.43
45:MD:53:GLU:OE1	45:MD:59:TYR:HE1	2.02	0.43
45:MD:103:LYS:HG3	45:MD:108:GLU:HG2	2.01	0.43
45:MD:330:MET:HA	45:MD:330:MET:HE3	1.99	0.43
44:ME:392:ASP:HA	44:ME:425:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:259:LEU:HD21	44:MG:316:SER:HB2	1.99	0.43
44:MI:272:TYR:HD2	44:MI:275:ILE:HD11	1.82	0.43
44:MI:302:MET:SD	44:MI:302:MET:O	2.76	0.43
44:MI:304:LYS:HD2	44:MI:304:LYS:HA	1.81	0.43
45:MJ:36:TYR:CE2	45:MJ:44:LEU:HD21	2.53	0.43
45:MJ:415:MET:HA	45:MJ:415:MET:HE3	2.00	0.43
44:MK:74:VAL:HG13	44:MK:75:ILE:N	2.33	0.43
44:MK:271:SER:HB2	44:MK:377:MET:SD	2.58	0.43
44:MK:296:PHE:CE2	44:MK:335:ILE:HG12	2.53	0.43
45:ML:38:GLY:HA3	45:ML:43:GLN:OE1	2.18	0.43
45:ML:320:ARG:HG3	45:ML:320:ARG:HH11	1.81	0.43
44:MM:123:ARG:HD3	44:MM:123:ARG:HA	1.71	0.43
44:MM:306:ASP:HB3	44:MM:309:HIS:CD2	2.52	0.43
44:MM:319:TYR:CE2	44:MM:328:VAL:HG22	2.53	0.43
44:MM:362:VAL:O	44:MM:362:VAL:HG23	2.18	0.43
44:MM:393:HIS:CE1	44:MM:397:LEU:HD11	2.52	0.43
45:MN:193:VAL:HG21	45:MN:418:LEU:HD12	2.00	0.43
45:MN:287:PRO:HB3	45:MN:329:GLN:HE22	1.83	0.43
44:NA:307:PRO:HB3	44:NA:312:TYR:OH	2.18	0.43
45:NB:256:ASN:C	45:NB:257:LEU:HD12	2.38	0.43
45:NB:345:ILE:CG2	45:NB:348:ASN:HD22	2.29	0.43
44:NC:177:VAL:HG22	44:NC:207:GLU:HG2	1.98	0.43
44:NE:14:ILE:CD1	44:NE:75:ILE:HD11	2.48	0.43
44:NE:132:LEU:HG	44:NE:132:LEU:O	2.18	0.43
45:NF:16:ILE:HD11	45:NF:136:THR:CB	2.48	0.43
45:NF:173:PRO:CG	45:NF:380:ARG:HD2	2.49	0.43
45:NF:317:PHE:HB2	45:NF:352:SER:O	2.18	0.43
44:NG:101:ASN:HB3	44:NG:182:VAL:CG2	2.48	0.43
44:NG:204:LEU:HD23	44:NG:302:MET:HG3	2.01	0.43
44:NI:105:ARG:O	44:NI:110:ILE:HG12	2.18	0.43
44:NI:202:VAL:O	44:NI:203:MET:HE1	2.18	0.43
44:NI:416:GLY:O	44:NI:420:GLU:OE1	2.36	0.43
44:NK:183:GLU:HG2	44:NK:184:PRO:CD	2.48	0.43
44:NK:228:ASN:O	44:NK:231:ILE:N	2.51	0.43
45:NL:5:VAL:HG12	45:NL:6:HIS:N	2.34	0.43
44:NM:188:ILE:HG13	44:NM:395:PHE:HB2	2.00	0.43
44:NM:214:ARG:O	44:NM:214:ARG:HG3	2.17	0.43
44:NM:313:MET:HE1	44:NM:382:THR:HG23	2.01	0.43
44:OA:346:TRP:HZ2	45:OD:393:ALA:H	1.66	0.43
45:OB:113:ILE:HG13	45:OB:116:VAL:HG11	1.98	0.43
45:OB:299:MET:HE2	45:OB:305:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OC:173:PRO:HG2	44:OC:391:LEU:HD11	2.00	0.43
44:OC:310:GLY:HA3	44:OC:383:ALA:N	2.33	0.43
45:OD:149:THR:O	45:OD:152:ILE:HB	2.18	0.43
45:OD:355:ASP:O	45:OD:356:ILE:HD13	2.18	0.43
44:OE:105:ARG:NH2	44:OE:110:ILE:HG21	2.32	0.43
45:OF:102:ALA:HB2	45:OF:398:TYR:CD1	2.53	0.43
45:OF:260:PHE:HB3	45:OF:261:PRO:HD2	2.00	0.43
44:OG:194:LEU:HD11	44:OG:198:THR:HG21	1.99	0.43
45:OH:65:LEU:HD13	45:OH:90:PHE:HE1	1.83	0.43
45:OH:107:THR:CG2	45:OH:401:GLU:HB3	2.48	0.43
45:OH:210:ILE:HG21	45:OH:300:MET:CE	2.47	0.43
45:OH:410:GLU:O	45:OH:414:ASN:N	2.29	0.43
44:OM:137:VAL:HG11	44:OM:154:LEU:CD2	2.43	0.43
44:OM:269:LEU:HD13	44:OM:305:CYS:SG	2.58	0.43
45:ON:118:ASP:HA	45:ON:121:ARG:HG2	2.00	0.43
44:PA:19:ALA:HA	44:PA:22:GLU:OE1	2.18	0.43
44:PA:183:GLU:CG	44:PA:184:PRO:HD3	2.45	0.43
45:PB:36:TYR:CZ	45:PB:44:LEU:HG	2.53	0.43
45:PB:154:LYS:O	45:PB:158:GLU:HG3	2.18	0.43
45:PB:383:GLU:HA	45:PB:386:THR:HG22	2.00	0.43
44:PC:10:GLY:O	44:PC:14:ILE:N	2.33	0.43
44:PC:210:TYR:CD1	44:PC:227:LEU:HD21	2.52	0.43
44:PC:267:PHE:CG	44:PC:388:PHE:HZ	2.36	0.43
44:PE:274:PRO:HG3	44:PE:286:LEU:HD12	2.00	0.43
44:PE:425:LEU:HD23	44:PE:425:LEU:HA	1.90	0.43
45:PF:19:LYS:HE2	45:PF:226:ASN:HB3	1.99	0.43
45:PF:248:SER:O	45:PF:248:SER:OG	2.35	0.43
44:PG:2:ARG:O	44:PG:2:ARG:HG2	2.18	0.43
45:PH:102:ALA:HB1	45:PH:401:GLU:HB2	1.99	0.43
44:PI:340:THR:HG23	44:PI:341:ILE:HD11	1.99	0.43
45:PJ:377:MET:O	45:PJ:380:ARG:HG2	2.18	0.43
44:PK:201:ALA:HB1	44:PK:267:PHE:CD2	2.53	0.43
44:PK:224:TYR:HE2	45:PL:246:LEU:HD11	1.84	0.43
44:PK:288:VAL:HG13	44:PK:289:ALA:N	2.33	0.43
44:PK:317:MET:HE1	44:PK:319:TYR:CZ	2.53	0.43
44:PK:399:TYR:OH	44:PK:418:PHE:HB2	2.18	0.43
44:PK:414:GLU:HB2	44:PK:417:GLU:HG3	1.99	0.43
45:PL:242:PHE:HD2	45:PL:356:ILE:CG1	2.31	0.43
44:PM:89:PRO:HD3	44:QM:280:LYS:HD2	2.00	0.43
44:PM:205:ASP:CG	44:PM:303:ALA:HA	2.38	0.43
45:PN:7:ILE:HB	45:PN:135:ILE:HD13	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:310:TYR:HB2	45:PN:340:TYR:O	2.18	0.43
44:QA:278:ALA:N	44:QA:369:ALA:HB2	2.33	0.43
44:QA:340:THR:HG23	44:QA:341:ILE:HG13	1.99	0.43
45:QB:20:PHE:HZ	45:QB:50:TYR:CZ	2.36	0.43
45:QD:20:PHE:CZ	45:QD:24:ILE:HG13	2.53	0.43
45:QD:135:ILE:O	45:QD:166:THR:HA	2.17	0.43
45:QD:215:LEU:HD21	45:QD:273:LEU:HB3	1.99	0.43
45:QD:309:ARG:H	45:QD:426:GLN:NE2	2.16	0.43
45:QF:68:LEU:HD13	45:QF:143:THR:OG1	2.19	0.43
45:QF:249:ASP:H	45:QF:252:LYS:HG3	1.83	0.43
45:QF:267:MET:HE1	45:QF:371:SER:HB3	1.99	0.43
45:QF:325:GLU:HA	45:QF:328:GLU:CG	2.48	0.43
44:QG:209:ILE:HG21	44:QG:227:LEU:HD22	1.99	0.43
44:QG:268:MET:HB2	44:QG:380:ASN:CA	2.48	0.43
44:QG:426:ALA:O	44:QG:430:LYS:N	2.45	0.43
45:QH:1:MET:C	45:QH:2:ARG:HG2	2.37	0.43
44:QI:221:ARG:O	44:QI:221:ARG:HG3	2.18	0.43
45:QJ:51:TYR:CE1	45:QJ:61:PRO:HG3	2.52	0.43
45:QJ:69:GLU:OE2	45:QJ:72:THR:HB	2.18	0.43
44:QK:88:HIS:CG	44:QK:89:PRO:HD2	2.53	0.43
45:QL:62:ARG:H	45:QL:62:ARG:HD3	1.83	0.43
45:QL:188:SER:O	45:QL:192:LEU:HB2	2.18	0.43
45:QL:293:MET:SD	45:QL:294:PHE:CD1	3.12	0.43
45:QL:368:VAL:O	45:QL:368:VAL:HG13	2.18	0.43
44:QM:54:SER:HB3	44:QM:64:ARG:CZ	2.49	0.43
44:QM:67:PHE:HB3	44:QM:75:ILE:HD11	1.98	0.43
44:QM:108:TYR:CD1	44:QM:413:MET:HE3	2.53	0.43
44:QM:288:VAL:O	44:QM:291:ILE:HG12	2.18	0.43
44:QM:402:ARG:C	44:QM:405:VAL:HG23	2.38	0.43
44:RC:292:THR:HB	44:RC:319:TYR:OH	2.18	0.43
44:RE:276:ILE:HG23	44:RE:281:ALA:CB	2.48	0.43
45:RF:275:SER:O	45:RF:278:SER:OG	2.31	0.43
45:RF:342:VAL:HG13	45:RF:345:ILE:HG22	1.99	0.43
45:RF:357:PRO:O	45:RF:357:PRO:CD	2.64	0.43
44:RG:286:LEU:HB3	44:RG:291:ILE:CG2	2.22	0.43
45:RH:101:TRP:CD1	45:RH:146:GLY:HA3	2.53	0.43
45:RH:130:LEU:CB	45:RH:162:ARG:HD2	2.38	0.43
45:RH:321:MET:SD	45:RH:321:MET:N	2.91	0.43
45:RH:344:TRP:CE3	45:RH:345:ILE:HB	2.53	0.43
44:RI:276:ILE:H	44:RI:368:LEU:HD13	1.83	0.43
45:RJ:320:ARG:CZ	45:RJ:355:ASP:HB3	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:379:LYS:O	45:RJ:382:ALA:N	2.50	0.43
45:RJ:419:VAL:HG13	45:RJ:420:SER:N	2.33	0.43
44:RK:295:ALA:HB1	44:RK:377:MET:SD	2.58	0.43
45:RL:36:TYR:CE2	45:RL:44:LEU:HD11	2.53	0.43
45:RL:210:ILE:HG23	45:RL:214:THR:OG1	2.17	0.43
44:RM:15:GLN:HA	44:RM:18:ASN:ND2	2.33	0.43
44:RM:69:ASP:OD1	44:RM:145:THR:HG21	2.18	0.43
44:RM:231:ILE:HG22	44:RM:235:ILE:CG1	2.48	0.43
44:RM:344:VAL:HG21	44:RM:346:TRP:CE2	2.53	0.43
45:RN:290:THR:N	45:RN:293:MET:HE3	2.32	0.43
44:SA:77:GLU:HA	44:SA:80:THR:OG1	2.18	0.43
44:SA:102:ASN:OD1	44:SA:105:ARG:N	2.46	0.43
44:SA:344:VAL:HG22	44:SA:345:ASP:N	2.33	0.43
45:SB:8:GLN:CD	45:SB:65:LEU:HG	2.38	0.43
45:SB:12:CYS:HB3	45:SB:138:SER:CB	2.48	0.43
45:SD:166:THR:OG1	45:SD:199:CYS:HB2	2.18	0.43
45:SD:265:PHE:HB2	45:SD:374:ILE:HD12	2.00	0.43
44:SE:198:THR:HG22	44:SE:199:ASP:N	2.34	0.43
45:SF:255:VAL:HG21	44:SG:100:ALA:HB1	1.98	0.43
45:SF:376:GLU:CG	45:SF:380:ARG:HH21	2.31	0.43
45:SF:378:PHE:CB	45:SF:419:VAL:HG22	2.48	0.43
44:SG:420:GLU:O	44:SG:423:GLU:N	2.50	0.43
44:SI:277:SER:O	44:SI:281:ALA:N	2.51	0.43
45:SJ:14:ASN:HD21	45:SJ:72:THR:CB	2.32	0.43
45:SJ:135:ILE:O	45:SJ:166:THR:HA	2.18	0.43
45:SJ:260:PHE:CA	44:SK:406:HIS:HE2	2.26	0.43
45:SL:259:PRO:HG3	44:SM:404:PHE:CE1	2.53	0.43
45:SL:269:GLY:HA3	45:SL:299:MET:HE1	1.99	0.43
44:SM:172:TYR:HB3	44:SM:173:PRO:HD2	2.00	0.43
45:SN:68:LEU:O	45:SN:68:LEU:HG	2.17	0.43
45:SN:313:ALA:CB	45:SN:369:GLY:HA2	2.47	0.43
44:TA:5:ILE:CD1	44:TA:125:LEU:HB3	2.47	0.43
44:TA:296:PHE:CE1	44:TA:377:MET:HE1	2.53	0.43
44:TA:401:LYS:HB2	44:TA:401:LYS:HE3	1.72	0.43
45:TB:113:ILE:HA	45:TB:116:VAL:HG12	1.98	0.43
44:TC:137:VAL:HG13	44:TC:168:GLY:HA2	1.99	0.43
45:TD:120:VAL:HG23	45:TD:121:ARG:N	2.33	0.43
45:TD:223:GLY:O	45:TD:226:ASN:HB2	2.18	0.43
45:TF:380:ARG:O	45:TF:384:GLN:HG3	2.18	0.43
44:TG:259:LEU:HD11	44:TG:316:SER:HB3	2.00	0.43
45:TH:150:LEU:HD21	45:TH:154:LYS:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:258:ASN:HA	45:TJ:179:VAL:CG2	2.47	0.43
44:TI:261:PRO:CA	45:TJ:394:PHE:HE1	2.28	0.43
44:TK:203:MET:HG3	44:TK:384:ILE:HD11	2.00	0.43
45:TL:274:THR:HG21	45:TL:279:GLN:CA	2.49	0.43
45:TL:318:ARG:HB2	45:TL:364:ALA:CB	2.41	0.43
45:TL:337:ASN:O	45:TL:340:TYR:HB2	2.19	0.43
44:TM:14:ILE:O	44:TM:18:ASN:N	2.36	0.43
44:TM:30:ILE:HG23	44:TM:34:GLY:HA2	1.99	0.43
44:TM:282:TYR:CE1	44:TM:371:VAL:HG12	2.53	0.43
44:UA:99:ALA:HB3	44:UA:145:THR:HB	2.00	0.43
44:UA:209:ILE:CG1	44:UA:302:MET:HE1	2.46	0.43
44:UA:271:SER:N	44:UA:377:MET:O	2.37	0.43
44:UA:375:VAL:HG13	44:UA:375:VAL:O	2.18	0.43
45:UB:9:GLY:HA2	45:UB:66:MET:O	2.18	0.43
44:UC:7:ILE:HD12	44:UC:66:VAL:HG12	1.99	0.43
44:UC:67:PHE:C	44:UC:68:LEU:HD12	2.39	0.43
44:UC:185:TYR:HE2	44:UC:404:PHE:CB	2.31	0.43
45:UD:304:ASP:OD1	45:UD:305:PRO:HD2	2.19	0.43
44:UE:93:ILE:HG21	44:UE:117:LEU:CD1	2.48	0.43
44:UE:186:ASN:O	44:UE:190:SER:N	2.41	0.43
44:UE:256:GLN:O	45:UF:397:TRP:CH2	2.71	0.43
44:UE:389:SER:O	44:UE:393:HIS:HB2	2.17	0.43
45:UF:383:GLU:HA	45:UF:386:THR:CG2	2.47	0.43
44:UG:2:ARG:HD2	44:UG:242:LEU:HD23	1.99	0.43
44:UG:157:LEU:HD11	44:UG:161:TYR:CD2	2.52	0.43
44:UG:195:LEU:HD11	44:UG:428:LEU:HD11	1.99	0.43
44:UG:271:SER:N	44:UG:302:MET:HE2	2.33	0.43
45:UH:81:PHE:HB3	45:UH:84:LEU:HD13	2.00	0.43
44:UI:11:GLN:HB3	46:UI:501:GTP:O3A	2.17	0.43
45:UJ:260:PHE:HB3	45:UJ:261:PRO:CD	2.43	0.43
44:UK:53:PHE:HE2	44:UK:63:PRO:HG3	1.83	0.43
44:UK:209:ILE:HA	44:UK:212:ILE:HB	2.00	0.43
45:UL:284:LEU:HD12	45:UL:362:LYS:HE3	2.00	0.43
45:UL:337:ASN:HB3	45:UL:341:PHE:HE1	1.82	0.43
44:UM:405:VAL:O	44:UM:409:VAL:HG22	2.18	0.43
45:UN:113:ILE:HD13	45:UN:150:LEU:CD2	2.48	0.43
45:UN:349:ILE:HG22	45:UN:350:LYS:N	2.33	0.43
45:VB:290:THR:HA	45:VB:293:MET:CG	2.48	0.43
45:VD:69:GLU:OE1	45:VD:71:GLY:N	2.48	0.43
45:VF:231:ALA:O	45:VF:234:SER:N	2.50	0.43
45:VF:382:ALA:O	45:VF:385:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:223:THR:N	44:VG:226:ASN:OD1	2.46	0.43
45:VH:24:ILE:HG13	45:VH:28:HIS:HD2	1.83	0.43
44:VI:88:HIS:HB3	44:VI:91:GLN:CD	2.39	0.43
44:VI:203:MET:CB	44:VI:303:ALA:HB2	2.47	0.43
44:VI:257:THR:N	45:VL:397:TRP:HZ3	2.16	0.43
45:VJ:1:MET:C	45:VJ:2:ARG:HG2	2.37	0.43
45:VJ:127:CYS:SG	45:VJ:130:LEU:HD23	2.58	0.43
45:VJ:300:MET:HE3	45:VJ:300:MET:HA	2.00	0.43
45:VL:113:ILE:HA	45:VL:116:VAL:CG1	2.43	0.43
45:VL:165:GLU:OE2	45:VL:250:LEU:HD22	2.18	0.43
44:VM:6:SER:HB2	44:VM:8:HIS:CE1	2.53	0.43
44:VM:60:LYS:HD3	44:WM:283:HIS:CD2	2.53	0.43
45:VN:252:LYS:O	45:VN:255:VAL:HB	2.18	0.43
44:WA:200:VAL:HG13	44:WA:268:MET:HE2	2.00	0.43
45:WD:216:LYS:HG3	45:WD:275:SER:HB3	1.98	0.43
44:WE:104:ALA:HB1	44:WE:411:GLU:HB2	1.99	0.43
45:WF:72:THR:O	45:WF:75:SER:OG	2.23	0.43
45:WF:167:PHE:CE2	45:WF:233:MET:HE2	2.54	0.43
44:WG:10:GLY:HA2	44:WG:145:THR:HG23	2.00	0.43
44:WG:36:MET:HA	44:WG:37:PRO:HD3	1.88	0.43
44:WG:191:THR:HG21	44:WG:425:LEU:CD2	2.23	0.43
45:WH:255:VAL:HG12	45:WH:255:VAL:O	2.18	0.43
44:WI:14:ILE:HD13	44:WI:75:ILE:HD11	2.01	0.43
44:WI:98:ASP:CG	44:WI:100:ALA:H	2.22	0.43
44:WI:288:VAL:C	44:WI:291:ILE:HG12	2.38	0.43
44:WI:407:TRP:HZ3	45:WJ:255:VAL:CG1	2.28	0.43
45:WJ:202:ILE:HD11	45:WJ:268:ILE:HD11	2.00	0.43
44:WK:5:ILE:HD12	44:WK:135:PHE:CE1	2.53	0.43
44:WK:389:SER:O	44:WK:393:HIS:N	2.38	0.43
45:WL:4:ILE:O	45:WL:4:ILE:HG13	2.18	0.43
45:WL:123:GLU:C	45:WL:126:GLY:H	2.18	0.43
45:WL:398:TYR:C	45:WL:403:MET:HB2	2.38	0.43
44:WM:7:ILE:HD12	44:WM:66:VAL:HG11	2.00	0.43
44:WM:408:TYR:HB3	44:WM:413:MET:HE3	2.00	0.43
45:WN:105:HIS:CE1	45:WN:150:LEU:HD12	2.53	0.43
45:WN:237:THR:HG1	45:WN:240:LEU:HB3	1.81	0.43
1:6H:344:ASN:ND2	44:FI:77:GLU:CG	2.81	0.43
5:0D:59:GLY:CA	44:EC:279:GLU:HG3	2.33	0.43
20:1J:157:PRO:CB	45:IH:279:GLN:HE22	2.30	0.43
10:1N:255:GLY:HA3	45:LJ:216:LYS:HG2	1.99	0.43
26:1R:404:ARG:HH22	44:DC:57:GLY:CA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1R:505:TYR:HB2	44:EC:39:ASP:O	2.19	0.43
21:2K:270:ILE:HG13	44:GK:282:TYR:CE2	2.52	0.43
13:2T:233:TRP:CB	45:MJ:392:LYS:HE2	2.47	0.43
33:3D:5:ASN:HD21	45:KD:33:THR:HG21	1.83	0.43
24:3O:427:LEU:HD21	44:UG:282:TYR:CD1	2.53	0.43
12:3S:270:GLY:HA2	11:6Q:34:ILE:HG22	2.00	0.43
15:3V:104:PHE:HE1	44:LA:417:GLU:CD	2.22	0.43
37:5B:102:TYR:CE1	44:KE:394:LYS:HG2	2.53	0.43
38:5E:49:ASP:HB3	45:OB:219:THR:OG1	2.17	0.43
38:5E:56:VAL:HG21	45:OB:215:LEU:HD13	1.99	0.43
38:5E:181:TYR:CD2	45:KD:160:PRO:HG2	2.53	0.43
39:5I:96:SER:CB	44:JA:434:GLU:HG3	2.48	0.43
11:5Q:60:THR:HG22	11:5Q:61:ALA:N	2.33	0.43
11:5Q:100:ARG:HH12	11:5Q:152:LEU:HD21	1.83	0.43
35:5R:54:ILE:HG13	35:5R:59:MET:SD	2.58	0.43
35:5R:314:ILE:CG1	35:5R:326:GLU:HB3	2.42	0.43
36:5S:65:PHE:HE1	36:5S:74:LEU:CD1	2.30	0.43
36:5S:111:GLU:CG	36:5S:116:TYR:HB2	2.33	0.43
36:5S:157:ILE:O	36:5S:160:THR:N	2.51	0.43
40:6F:92:LYS:HD2	40:6F:93:LYS:HB3	2.00	0.43
11:6Q:15:TYR:HE2	11:6Q:17:ILE:CB	2.17	0.43
11:6Q:99:VAL:HG21	11:6Q:101:ARG:NH2	2.34	0.43
11:6Q:100:ARG:HG3	11:6Q:152:LEU:HD12	1.98	0.43
11:6Q:116:PRO:HG3	44:AM:263:PRO:HG3	2.00	0.43
35:6R:115:LYS:H	35:6R:115:LYS:HG2	1.71	0.43
35:6R:330:SER:OG	35:6R:332:SER:OG	2.34	0.43
35:7R:550:VAL:CG2	35:7R:554:LYS:HE3	2.47	0.43
35:7R:573:LEU:HD21	35:7R:580:LEU:HB2	2.00	0.43
42:8L:331:UNK:O	42:8L:335:UNK:N	2.52	0.43
42:8N:16:UNK:O	42:8N:20:UNK:N	2.52	0.43
43:8P:125:UNK:O	43:8P:129:UNK:N	2.51	0.43
44:AA:223:THR:HG23	44:AA:225:THR:N	2.23	0.43
45:AB:30:ILE:HD13	45:AB:36:TYR:HA	2.01	0.43
45:AD:3:GLU:OE2	45:AD:127:CYS:HB2	2.18	0.43
45:AD:180:VAL:HG22	45:AD:180:VAL:O	2.17	0.43
45:AD:392:LYS:HG3	45:AD:395:LEU:HD22	2.00	0.43
44:AE:139:ASN:O	44:AE:170:THR:HA	2.18	0.43
44:AE:276:ILE:CD1	44:AE:280:LYS:HD2	2.48	0.43
45:AF:103:LYS:HE2	45:AF:108:GLU:HG2	2.00	0.43
45:AF:256:ASN:C	45:AF:257:LEU:HD12	2.38	0.43
44:AG:102:ASN:HB3	44:AG:105:ARG:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:154:LYS:O	45:AH:158:GLU:OE1	2.37	0.43
45:AH:257:LEU:HB3	45:AH:266:PHE:CZ	2.53	0.43
45:AJ:87:PRO:HD2	45:BJ:281:TYR:HD2	1.83	0.43
45:AJ:248:SER:OG	45:AJ:253:LEU:HD12	2.17	0.43
44:AK:403:ALA:O	44:AK:404:PHE:HB2	2.19	0.43
45:AL:52:ASN:ND2	45:AL:62:ARG:HD3	2.26	0.43
44:AM:320:ARG:CG	44:AM:374:ALA:HB3	2.48	0.43
45:AN:294:PHE:CE2	45:AN:333:VAL:HG21	2.53	0.43
44:BC:104:ALA:O	44:BC:411:GLU:HB3	2.18	0.43
44:BC:121:ARG:NE	44:BC:121:ARG:HA	2.33	0.43
44:BE:271:SER:HB2	44:BE:377:MET:HG2	2.01	0.43
45:BF:285:THR:HG22	45:BF:287:PRO:HD3	1.99	0.43
44:BG:392:ASP:OD1	44:BG:422:ARG:NH1	2.50	0.43
44:BI:26:LEU:HD21	44:BI:364:PRO:HD3	2.00	0.43
45:BJ:178:THR:CG2	45:BJ:180:VAL:HG12	2.48	0.43
45:BJ:293:MET:HE3	45:BJ:367:PHE:CD1	2.53	0.43
44:BK:22:GLU:HG3	44:BK:83:TYR:CZ	2.53	0.43
44:BK:124:LYS:HE2	44:BK:124:LYS:HB2	1.84	0.43
44:BM:103:PHE:CD2	44:BM:189:LEU:HD13	2.52	0.43
44:BM:311:LYS:HZ1	44:BM:342:GLN:CD	2.21	0.43
44:BM:317:MET:CB	44:BM:377:MET:HB3	2.48	0.43
45:CB:166:THR:HG21	45:CB:196:ALA:HB1	2.00	0.43
45:CB:256:ASN:HD21	44:CC:180:ALA:CA	2.28	0.43
45:CB:271:ALA:HB1	45:CB:272:PRO:CA	2.44	0.43
44:CC:124:LYS:O	44:CC:127:ASP:HB2	2.18	0.43
45:CD:73:MET:HE2	45:CD:90:PHE:HD1	1.82	0.43
45:CD:142:GLY:CA	45:CD:184:ASN:HD22	2.30	0.43
45:CD:396:HIS:CE1	45:CD:397:TRP:NE1	2.86	0.43
44:CE:93:ILE:CD1	44:CE:117:LEU:HD23	2.47	0.43
45:CF:221:THR:HG22	45:CF:222:TYR:N	2.33	0.43
45:CF:286:VAL:CG1	45:CF:329:GLN:HG3	2.49	0.43
45:CH:4:ILE:CG1	45:CH:50:TYR:HE1	2.31	0.43
45:CH:113:ILE:O	45:CH:116:VAL:HG12	2.17	0.43
44:CK:70:LEU:HD21	44:CK:149:LEU:HD21	2.01	0.43
44:CK:141:VAL:HG11	44:CK:172:TYR:CE1	2.53	0.43
44:CK:325:PRO:O	44:CK:328:VAL:HB	2.19	0.43
45:CL:47:ILE:HD13	45:CL:59:TYR:HE2	1.83	0.43
45:CL:74:ASP:HA	45:CL:77:ARG:CZ	2.48	0.43
45:CN:190:HIS:HB2	45:CN:411:ALA:CB	2.48	0.43
45:CN:425:TYR:HA	45:CN:428:ALA:CB	2.48	0.43
44:DA:1:MET:O	44:DA:131:GLY:HA3	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DD:99:ASN:C	45:DD:142:GLY:HA3	2.39	0.43
44:DE:25:CYS:HA	44:DE:30:ILE:CG1	2.48	0.43
44:DE:182:VAL:C	44:DE:184:PRO:HD2	2.37	0.43
45:DF:178:THR:HB	45:DF:181:GLU:CG	2.29	0.43
45:DH:318:ARG:NH1	45:DH:358:PRO:HG3	2.31	0.43
44:DI:102:ASN:O	44:DI:144:GLY:HA3	2.19	0.43
44:DI:395:PHE:CE2	44:DI:422:ARG:HB2	2.54	0.43
45:DJ:87:PRO:HD2	45:EJ:281:TYR:CD2	2.53	0.43
45:DJ:299:MET:HE3	45:DJ:305:PRO:HG3	2.00	0.43
45:DL:164:MET:H	45:DL:197:ASP:CB	2.31	0.43
45:DL:193:VAL:HA	45:DL:264:HIS:NE2	2.34	0.43
45:DL:266:PHE:CE1	45:DL:370:ASN:HB2	2.53	0.43
45:DL:377:MET:O	45:DL:381:VAL:HB	2.18	0.43
44:DM:203:MET:HA	44:DM:203:MET:HE2	2.00	0.43
44:EA:8:HIS:O	44:EA:68:LEU:HB2	2.18	0.43
44:EA:37:PRO:HB2	44:EA:39:ASP:H	1.83	0.43
44:EA:188:ILE:HG23	44:EA:425:LEU:HD11	1.99	0.43
44:EA:287:SER:OG	44:EA:288:VAL:N	2.52	0.43
45:EB:19:LYS:CG	45:EB:227:HIS:HA	2.39	0.43
45:EB:299:MET:HG3	45:EB:305:PRO:HG3	2.01	0.43
45:EB:350:LYS:HE2	44:EC:179:THR:O	2.19	0.43
45:ED:259:PRO:HA	44:EE:404:PHE:CD1	2.53	0.43
44:EE:32:PRO:HB3	44:EE:83:TYR:CD1	2.53	0.43
45:EF:238:CYS:HA	45:EF:241:ARG:NH2	2.34	0.43
45:EH:137:HIS:CE1	45:EH:200:MET:CE	3.01	0.43
45:EH:251:ARG:HH21	44:EI:105:ARG:HH11	1.66	0.43
45:EH:415:MET:CE	45:EH:415:MET:HA	2.48	0.43
44:EI:238:LEU:HD11	44:EI:255:PHE:CE1	2.53	0.43
45:EJ:142:GLY:HA2	45:EJ:145:SER:OG	2.18	0.43
45:EJ:267:MET:HE1	45:EJ:371:SER:HB3	2.00	0.43
45:EJ:331:LEU:HD13	44:EK:176:GLN:O	2.18	0.43
44:EK:32:PRO:C	44:EK:33:ASP:HA	2.39	0.43
44:EK:90:GLU:CG	44:FI:280:LYS:HZ1	2.24	0.43
44:EK:103:PHE:HB3	44:EK:408:TYR:HE2	1.84	0.43
44:EK:275:ILE:HG23	44:EK:368:LEU:CD2	2.48	0.43
45:EL:69:GLU:OE2	45:EL:72:THR:HG22	2.17	0.43
45:EL:116:VAL:O	45:EL:120:VAL:HG22	2.18	0.43
45:EL:314:SER:HA	45:EL:350:LYS:CA	2.49	0.43
44:EM:262:TYR:CE2	44:EM:435:VAL:HG22	2.53	0.43
44:EM:319:TYR:O	44:EM:355:ILE:HA	2.18	0.43
45:EN:18:ALA:HB2	45:EN:76:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EN:19:LYS:HZ3	45:EN:23:VAL:HG21	1.82	0.43
45:EN:68:LEU:HD23	45:EN:96:GLY:C	2.37	0.43
44:FC:311:LYS:HD2	44:FC:342:GLN:HE22	1.84	0.43
44:FC:339:ARG:O	44:FC:339:ARG:CG	2.66	0.43
45:FD:64:ILE:C	45:FD:65:LEU:HD12	2.38	0.43
45:FD:286:VAL:O	45:FD:289:LEU:HB2	2.17	0.43
45:FD:292:GLN:HA	45:FD:295:ASP:HB2	2.01	0.43
45:FD:302:ALA:HB1	45:FD:380:ARG:HH12	1.83	0.43
44:FE:184:PRO:HB3	44:FE:394:LYS:HG3	1.99	0.43
45:FF:265:PHE:CE2	45:FF:378:PHE:HZ	2.36	0.43
44:FG:181:VAL:HG21	45:FH:256:ASN:O	2.18	0.43
44:FG:296:PHE:CE1	44:FG:335:ILE:HG21	2.53	0.43
45:FH:200:MET:HE1	45:FH:200:MET:HA	2.00	0.43
44:FI:186:ASN:O	44:FI:190:SER:HB3	2.18	0.43
44:FI:210:TYR:CG	45:FJ:324:LYS:CE	3.01	0.43
45:FJ:7:ILE:HG12	45:FJ:64:ILE:HB	2.00	0.43
45:FJ:257:LEU:HD11	45:FJ:314:SER:HB3	1.99	0.43
45:FJ:377:MET:SD	45:FJ:380:ARG:NH1	2.91	0.43
44:FK:151:SER:HB3	44:FK:193:SER:OG	2.19	0.43
44:FK:253:THR:HG23	44:FK:254:GLU:N	2.33	0.43
44:FM:182:VAL:HG12	45:FN:256:ASN:HD21	1.82	0.43
44:FM:188:ILE:HG23	44:FM:425:LEU:HD11	1.99	0.43
44:FM:428:LEU:HG	44:FM:432:TYR:HE2	1.83	0.43
45:FN:8:GLN:NE2	45:FN:65:LEU:HG	2.21	0.43
45:FN:293:MET:HE2	45:FN:367:PHE:HB2	1.99	0.43
45:FN:311:LEU:HD21	45:FN:344:TRP:CH2	2.53	0.43
45:FN:390:ARG:HG3	45:FN:391:ARG:H	1.83	0.43
45:GB:310:TYR:CD1	45:GB:371:SER:HB2	2.53	0.43
44:GC:22:GLU:OE2	44:GC:83:TYR:HE2	2.01	0.43
44:GC:328:VAL:CG1	44:GC:353:VAL:HG21	2.46	0.43
44:GE:217:LEU:CA	44:GE:277:SER:HB3	2.47	0.43
44:GE:223:THR:HG23	44:GE:225:THR:H	1.83	0.43
44:GE:336:LYS:HB3	44:GE:336:LYS:HZ1	1.83	0.43
44:GE:385:ALA:HB2	44:GE:432:TYR:HD2	1.83	0.43
45:GF:202:ILE:CD1	45:GF:268:ILE:HD11	2.43	0.43
45:GH:3:GLU:CB	45:GH:49:VAL:HA	2.49	0.43
45:GH:91:VAL:HG21	45:GH:116:VAL:HB	2.00	0.43
44:GI:54:SER:O	44:GI:62:VAL:HG12	2.18	0.43
44:GI:221:ARG:HG3	45:GJ:322:SER:CB	2.49	0.43
44:GI:230:LEU:O	44:GI:233:GLN:HB3	2.18	0.43
44:GK:14:ILE:CD1	44:GK:69:ASP:HB2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GK:137:VAL:O	44:GK:137:VAL:HG13	2.19	0.43
44:GM:248:LEU:HD23	44:GM:353:VAL:O	2.18	0.43
44:GM:387:VAL:CA	44:GM:390:ARG:HH11	2.28	0.43
45:GN:91:VAL:HG21	45:GN:115:SER:OG	2.18	0.43
44:HA:88:HIS:CE1	44:HA:90:GLU:HG2	2.53	0.43
45:HB:32:PRO:HG3	45:HB:81:PHE:CE2	2.53	0.43
45:HB:116:VAL:O	45:HB:120:VAL:N	2.42	0.43
45:HB:309:ARG:HD2	45:HB:426:GLN:HA	2.01	0.43
45:HD:180:VAL:HG22	45:HD:180:VAL:O	2.18	0.43
45:HD:263:LEU:HG	45:HD:422:TYR:CE1	2.53	0.43
44:HE:19:ALA:HB2	44:HE:228:ASN:HB3	2.00	0.43
44:HE:69:ASP:OD1	44:HE:71:GLU:N	2.42	0.43
44:HE:181:VAL:HG11	45:HF:256:ASN:HA	2.01	0.43
45:HF:257:LEU:HD21	45:HF:314:SER:HB2	2.00	0.43
45:HF:367:PHE:CE2	45:HF:369:GLY:HA3	2.54	0.43
44:HG:210:TYR:HE1	44:HG:227:LEU:HD21	1.83	0.43
45:HH:99:ASN:HA	45:HH:142:GLY:CA	2.44	0.43
45:HH:286:VAL:O	45:HH:289:LEU:HB2	2.19	0.43
44:HI:226:ASN:HA	44:HI:229:ARG:NH1	2.33	0.43
44:HI:282:TYR:OH	44:HI:371:VAL:HG12	2.18	0.43
45:HJ:197:ASP:O	45:HJ:264:HIS:HB2	2.17	0.43
45:HJ:242:PHE:HB2	45:HJ:354:CYS:SG	2.59	0.43
45:HL:117:LEU:HG	45:HL:121:ARG:NH1	2.17	0.43
44:HM:14:ILE:HG21	44:HM:74:VAL:HG22	2.00	0.43
44:HM:213:CYS:SG	44:HM:217:LEU:HD12	2.58	0.43
45:HN:86:ARG:HH21	45:HN:87:PRO:CD	2.31	0.43
45:HN:272:PRO:HG3	45:HN:289:LEU:HD21	1.99	0.43
45:HN:325:GLU:HA	45:HN:328:GLU:CD	2.38	0.43
44:IA:100:ALA:O	45:IB:255:VAL:HG21	2.18	0.43
44:IA:217:LEU:HD13	44:IA:367:ASP:HB2	1.99	0.43
45:IB:101:TRP:CD2	45:IB:187:LEU:HD13	2.53	0.43
45:IB:285:THR:O	45:IB:288:GLU:HB2	2.18	0.43
44:IC:22:GLU:HA	44:IC:25:CYS:HB2	2.00	0.43
44:IC:425:LEU:O	44:IC:429:GLU:HG3	2.18	0.43
45:ID:7:ILE:HG21	45:ID:135:ILE:HD13	2.00	0.43
45:ID:11:GLN:HA	45:ID:14:ASN:HB2	1.99	0.43
45:ID:105:HIS:O	45:ID:105:HIS:ND1	2.52	0.43
45:ID:320:ARG:NH1	45:ID:355:ASP:HB3	2.34	0.43
44:IE:88:HIS:HA	45:JF:281:TYR:HD2	1.82	0.43
44:IG:185:TYR:HE1	44:IG:398:MET:HB2	1.82	0.43
44:II:9:VAL:HG21	44:II:149:LEU:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:296:PHE:HD2	44:II:335:ILE:HD11	1.83	0.43
45:IJ:170:VAL:HG13	45:IJ:203:ASP:OD1	2.18	0.43
45:IJ:208:TYR:CE1	45:IJ:225:LEU:HD11	2.52	0.43
45:IJ:374:ILE:HD11	45:IJ:422:TYR:CZ	2.53	0.43
44:IK:317:MET:SD	44:IK:319:TYR:HE1	2.40	0.43
45:IL:101:TRP:HB3	45:IL:398:TYR:HE1	1.82	0.43
44:IM:28:HIS:NE2	44:IM:49:PHE:HA	2.33	0.43
44:IM:344:VAL:HG21	44:IM:346:TRP:CZ2	2.53	0.43
44:IM:375:VAL:O	44:IM:375:VAL:HG13	2.18	0.43
45:JB:5:VAL:HG22	45:JB:6:HIS:N	2.34	0.43
45:JB:7:ILE:O	45:JB:135:ILE:HD12	2.18	0.43
45:JB:91:VAL:HG23	45:JB:91:VAL:O	2.19	0.43
45:JB:286:VAL:HB	45:JB:287:PRO:HD3	2.00	0.43
44:JC:285:GLN:NE2	44:JC:290:GLU:OE1	2.51	0.43
45:JD:101:TRP:HE1	45:JD:105:HIS:HB2	1.83	0.43
45:JF:171:PRO:HB3	45:JF:181:GLU:OE2	2.18	0.43
45:JH:69:GLU:CD	45:JH:71:GLY:H	2.21	0.43
45:JH:175:VAL:HG23	45:JH:175:VAL:O	2.18	0.43
45:JJ:75:SER:O	45:JJ:78:ALA:HB3	2.18	0.43
45:JJ:101:TRP:CD1	45:JJ:105:HIS:HB2	2.52	0.43
44:KA:13:GLY:HA2	44:KA:16:VAL:CG2	2.49	0.43
44:KA:181:VAL:HG11	45:KB:345:ILE:HD11	2.00	0.43
44:KC:275:ILE:HA	44:KC:368:LEU:CD1	2.46	0.43
45:KD:58:ARG:HH12	45:KD:86:ARG:NH1	2.16	0.43
45:KD:287:PRO:HG3	45:KD:325:GLU:OE2	2.18	0.43
44:KE:6:SER:OG	44:KE:65:ALA:HB2	2.18	0.43
44:KE:223:THR:O	44:KE:226:ASN:HB2	2.18	0.43
45:KF:215:LEU:HB3	45:KF:217:LEU:HD23	2.01	0.43
45:KF:267:MET:HE1	45:KF:305:PRO:HG3	1.98	0.43
44:KG:102:ASN:HB2	44:KG:105:ARG:CB	2.49	0.43
44:KG:170:THR:C	44:KG:171:ILE:HD12	2.39	0.43
44:KG:270:SER:C	44:KG:302:MET:HE3	2.39	0.43
45:KH:318:ARG:NE	45:KH:358:PRO:HD3	2.33	0.43
44:KI:105:ARG:NH1	45:KJ:251:ARG:HH22	2.16	0.43
45:KJ:152:ILE:HG23	45:KJ:164:MET:HE1	2.00	0.43
44:KK:208:ALA:O	44:KK:212:ILE:HG13	2.18	0.43
44:KK:238:LEU:HD23	44:KK:238:LEU:C	2.39	0.43
44:KK:392:ASP:O	44:KK:395:PHE:N	2.51	0.43
45:KL:64:ILE:HD13	45:KL:89:ASN:ND2	2.34	0.43
44:KM:89:PRO:HD3	44:LM:283:HIS:ND1	2.34	0.43
44:KM:191:THR:HA	44:KM:194:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:195:LEU:HD21	44:KM:264:ARG:HH22	1.78	0.43
44:KM:401:LYS:HZ1	45:KN:430:ALA:HA	1.83	0.43
45:KN:201:VAL:HG23	45:KN:201:VAL:O	2.19	0.43
45:KN:248:SER:HB3	45:KN:252:LYS:HD2	1.99	0.43
44:LA:14:ILE:HD11	44:LA:69:ASP:HB3	1.99	0.43
44:LA:210:TYR:CE1	44:LA:227:LEU:HD11	2.53	0.43
44:LA:273:ALA:CB	44:LA:274:PRO:HA	2.43	0.43
45:LB:334:GLN:O	45:LB:334:GLN:HG3	2.18	0.43
44:LC:2:ARG:NH2	44:LC:243:ARG:HA	2.24	0.43
44:LC:167:LEU:HD23	44:LC:200:VAL:HB	1.99	0.43
44:LC:372:MET:O	44:LC:372:MET:HG2	2.17	0.43
44:LC:438:GLU:HG3	44:LC:439:THR:N	2.33	0.43
45:LD:114:ASP:OD1	45:LD:114:ASP:C	2.56	0.43
44:LE:352:LYS:HA	45:LH:177:ASP:O	2.19	0.43
45:LF:73:MET:HA	45:LF:76:VAL:CG1	2.48	0.43
44:LG:204:LEU:HD23	44:LG:302:MET:HG3	2.00	0.43
44:LI:289:ALA:O	44:LI:292:THR:HG22	2.17	0.43
45:LJ:181:GLU:N	45:LJ:182:PRO:CD	2.81	0.43
45:LJ:239:CYS:SG	45:LJ:248:SER:N	2.87	0.43
45:LJ:262:ARG:C	45:LJ:263:LEU:HD12	2.39	0.43
45:LJ:415:MET:O	45:LJ:419:VAL:HG23	2.18	0.43
44:LK:72:PRO:HD2	45:LL:2:ARG:HH21	1.83	0.43
45:LL:103:LYS:NZ	45:LL:108:GLU:OE2	2.50	0.43
45:LL:263:LEU:HG	45:LL:422:TYR:CD1	2.54	0.43
45:LN:318:ARG:CG	45:LN:357:PRO:HA	2.37	0.43
45:LN:341:PHE:CE2	45:LN:349:ILE:HD11	2.54	0.43
44:MA:210:TYR:CD1	45:MB:324:LYS:HD2	2.53	0.43
44:MC:1:MET:CE	45:MF:92:PHE:HE2	2.31	0.43
44:MC:145:THR:HG23	44:MC:146:GLY:N	2.33	0.43
44:MC:159:VAL:HG13	44:MC:160:ASP:N	2.34	0.43
44:MC:371:VAL:HG12	44:MC:372:MET:N	2.34	0.43
44:ME:7:ILE:HG23	44:ME:66:VAL:CG2	2.48	0.43
44:ME:269:LEU:HD11	44:ME:433:GLU:HB2	1.98	0.43
45:MF:42:LEU:HD12	45:MF:243:PRO:CG	2.47	0.43
45:MF:207:LEU:CD2	45:MF:225:LEU:HD22	2.47	0.43
45:MF:215:LEU:CD2	45:MF:217:LEU:HG	2.47	0.43
44:MG:244:PHE:CB	44:MG:356:ASN:HD21	2.27	0.43
45:MH:105:HIS:C	45:MH:106:TYR:HD1	2.22	0.43
45:MH:152:ILE:CD1	45:MH:164:MET:HE2	2.48	0.43
45:MH:186:THR:HG23	45:MH:187:LEU:N	2.32	0.43
44:MI:14:ILE:HD13	44:MI:75:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:233:GLN:O	44:MI:236:SER:HB3	2.18	0.43
45:MJ:103:LYS:N	45:MJ:401:GLU:OE1	2.51	0.43
45:MJ:133:PHE:HD2	45:MJ:155:VAL:HG11	1.83	0.43
45:MJ:236:VAL:HG22	45:MJ:250:LEU:HD11	2.00	0.43
44:MK:239:THR:O	44:MK:239:THR:HG22	2.19	0.43
44:MK:350:GLY:CA	45:MN:179:VAL:HG12	2.48	0.43
45:ML:399:THR:HA	45:ML:403:MET:HB2	1.99	0.43
44:MM:316:SER:OG	44:MM:378:ILE:O	2.36	0.43
44:NA:114:ILE:O	44:NA:114:ILE:HG22	2.19	0.43
44:NA:328:VAL:O	44:NA:332:ILE:HG12	2.18	0.43
45:NB:1:MET:O	45:NB:2:ARG:HG2	2.18	0.43
45:NB:2:ARG:HG3	45:NB:2:ARG:O	2.18	0.43
45:NB:58:ARG:HG2	45:NB:59:TYR:N	2.33	0.43
45:NB:58:ARG:NH1	45:OB:281:TYR:HE1	2.16	0.43
44:NC:381:SER:O	44:NC:384:ILE:HG22	2.17	0.43
45:ND:4:ILE:O	45:ND:62:ARG:HD2	2.19	0.43
45:ND:265:PHE:CD2	45:ND:378:PHE:HZ	2.37	0.43
45:ND:416:ASN:O	45:ND:419:VAL:HB	2.18	0.43
44:NE:5:ILE:HD11	44:NE:129:CYS:SG	2.57	0.43
44:NE:105:ARG:HA	44:NE:109:THR:HG1	1.82	0.43
44:NE:318:MET:SD	44:NE:352:LYS:NZ	2.91	0.43
45:NF:61:PRO:HD2	45:NF:84:LEU:O	2.19	0.43
44:NI:26:LEU:HD22	44:NI:364:PRO:HD2	2.00	0.43
44:NI:307:PRO:HB2	44:NI:312:TYR:CE1	2.53	0.43
45:NJ:113:ILE:HD13	45:NJ:150:LEU:CD2	2.28	0.43
44:NK:26:LEU:HD11	44:NK:363:VAL:HG13	1.98	0.43
45:NL:49:VAL:HG11	45:NL:241:ARG:HG2	2.00	0.43
45:NL:135:ILE:HG13	45:NL:164:MET:CE	2.47	0.43
45:NL:270:PHE:CE2	45:NL:273:LEU:HD21	2.53	0.43
44:NM:404:PHE:CE2	45:NN:259:PRO:HB3	2.54	0.43
45:NN:5:VAL:HA	45:NN:62:ARG:CD	2.47	0.43
45:NN:8:GLN:NE2	45:NN:65:LEU:HG	2.33	0.43
45:NN:86:ARG:HG3	45:NN:88:ASP:H	1.83	0.43
44:OA:72:PRO:HG2	45:OB:1:MET:CE	2.49	0.43
45:OB:23:VAL:O	45:OB:27:GLU:HG3	2.18	0.43
44:OC:398:MET:HE3	45:OD:346:PRO:HD2	2.00	0.43
44:OE:189:LEU:HD21	44:OE:418:PHE:CE1	2.54	0.43
44:OE:348:PRO:HB2	45:OH:384:GLN:OE1	2.18	0.43
45:OF:112:LEU:HG	45:OF:112:LEU:O	2.18	0.43
45:OF:391:ARG:HA	45:OF:391:ARG:HD2	1.79	0.43
44:OG:74:VAL:O	44:OG:77:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:183:GLU:O	44:OG:187:SER:N	2.41	0.43
45:OH:65:LEU:HD12	45:OH:65:LEU:N	2.34	0.43
45:OH:86:ARG:HG3	45:OH:88:ASP:OD1	2.17	0.43
44:OI:11:GLN:HG3	44:OI:74:VAL:CG1	2.37	0.43
44:OI:108:TYR:HD2	44:OI:413:MET:CE	2.31	0.43
44:OI:237:SER:HA	44:OI:320:ARG:CZ	2.48	0.43
44:OI:291:ILE:HG13	44:OI:292:THR:H	1.82	0.43
45:OJ:47:ILE:HD13	45:OJ:59:TYR:CE2	2.53	0.43
45:OJ:166:THR:N	45:OJ:198:GLU:O	2.52	0.43
45:OL:207:LEU:O	45:OL:211:CYS:HB3	2.19	0.43
44:OM:7:ILE:O	44:OM:138:PHE:HD1	2.01	0.43
44:OM:7:ILE:HG21	44:OM:153:LEU:CD2	2.48	0.43
44:OM:313:MET:N	44:OM:380:ASN:O	2.35	0.43
45:ON:69:GLU:HG3	45:ON:69:GLU:O	2.18	0.43
44:PA:249:ASN:ND2	48:PD:502:GDP:O3B	2.51	0.43
45:PB:4:ILE:HG22	45:PB:131:GLN:HB3	1.98	0.43
44:PC:238:LEU:CD1	44:PC:255:PHE:HZ	2.30	0.43
44:PC:407:TRP:HZ2	45:PD:258:ILE:CG1	2.31	0.43
45:PD:20:PHE:CZ	45:PD:24:ILE:HG13	2.54	0.43
45:PD:31:ASP:HB3	45:PD:32:PRO:CD	2.48	0.43
45:PD:213:ARG:NH2	45:PD:297:LYS:HE3	2.29	0.43
44:PE:10:GLY:HA2	44:PE:145:THR:HG23	2.00	0.43
45:PF:374:ILE:HA	45:PF:377:MET:CE	2.48	0.43
44:PG:70:LEU:HD21	44:PG:149:LEU:HG	2.00	0.43
44:PG:269:LEU:HD12	44:PG:303:ALA:HB3	2.00	0.43
44:PG:270:SER:HB3	44:PG:378:ILE:CD1	2.48	0.43
44:PG:348:PRO:HD2	45:PJ:388:MET:HE1	1.99	0.43
45:PH:286:VAL:N	45:PH:287:PRO:CD	2.81	0.43
44:PI:98:ASP:OD1	44:PI:99:ALA:N	2.51	0.43
44:PK:144:GLY:HA2	44:PK:147:SER:OG	2.18	0.43
45:PL:69:GLU:OE1	45:PL:71:GLY:N	2.51	0.43
45:PN:293:MET:HG3	45:PN:367:PHE:HB2	2.00	0.43
45:PN:405:GLU:HG2	45:PN:406:MET:HE2	2.00	0.43
44:QA:413:MET:HE3	44:QA:417:GLU:HG3	2.00	0.43
45:QB:132:GLY:HA3	45:QB:163:ILE:HG13	2.01	0.43
45:QB:137:HIS:HE2	45:QB:168:SER:HG	1.59	0.43
45:QB:386:THR:O	45:QB:390:ARG:HG2	2.19	0.43
45:QB:417:ASP:OD1	45:QB:421:GLU:HG3	2.18	0.43
44:QC:419:SER:O	44:QC:422:ARG:HB2	2.18	0.43
44:QE:224:TYR:HB3	46:QE:501:GTP:O6	2.18	0.43
45:QF:276:ARG:HA	45:QF:276:ARG:HD3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:114:ASP:OD1	45:QH:115:SER:N	2.51	0.43
44:QI:240:ALA:O	44:QI:356:ASN:ND2	2.51	0.43
44:QI:312:TYR:HB2	44:QI:343:PHE:HA	2.00	0.43
45:QJ:428:ALA:HB1	44:QK:401:LYS:NZ	2.33	0.43
44:QM:108:TYR:CA	44:QM:112:LYS:HE3	2.43	0.43
44:QM:175:PRO:HG3	44:QM:390:ARG:NH1	2.33	0.43
44:QM:237:SER:OG	44:QM:320:ARG:HD3	2.18	0.43
45:RB:3:GLU:HB2	45:RB:49:VAL:HA	1.99	0.43
45:RB:163:ILE:CD1	45:RB:250:LEU:HB3	2.48	0.43
45:RB:240:LEU:HD12	45:RB:249:ASP:CA	2.44	0.43
45:RB:247:ASN:ND2	44:RC:73:THR:HB	2.33	0.43
44:RC:26:LEU:HD12	44:RC:26:LEU:O	2.18	0.43
44:RE:414:GLU:O	44:RE:417:GLU:HB2	2.18	0.43
45:RF:207:LEU:HB3	45:RF:225:LEU:CD2	2.35	0.43
44:RG:8:HIS:HD2	44:RG:67:PHE:HE1	1.65	0.43
45:RH:249:ASP:OD2	44:RI:98:ASP:HB3	2.17	0.43
45:RH:296:ALA:CB	45:RH:306:ARG:HE	2.32	0.43
44:RI:196:GLU:O	44:RI:196:GLU:HG3	2.18	0.43
45:RJ:14:ASN:HD22	45:RJ:72:THR:HG21	1.81	0.43
44:RK:11:GLN:N	46:RK:501:GTP:O2B	2.51	0.43
44:RK:317:MET:CE	44:RK:317:MET:HA	2.47	0.43
44:RM:118:CYS:HB3	44:RM:120:ASP:CB	2.48	0.43
44:SA:52:PHE:O	44:SA:63:PRO:HA	2.18	0.43
44:SA:276:ILE:HD12	44:SA:284:GLU:OE2	2.18	0.43
44:SA:326:LYS:HA	44:SA:329:ASN:HB2	2.00	0.43
45:SB:380:ARG:O	45:SB:384:GLN:HG3	2.17	0.43
44:SC:210:TYR:OH	44:SC:224:TYR:HE1	2.01	0.43
45:SD:286:VAL:HA	45:SD:289:LEU:CD1	2.48	0.43
45:SD:303:ALA:HB2	45:SD:377:MET:SD	2.57	0.43
44:SE:78:VAL:CG1	44:SE:92:LEU:HD21	2.48	0.43
44:SE:183:GLU:CG	44:SE:184:PRO:HD3	2.48	0.43
44:SE:256:GLN:NE2	45:SF:397:TRP:HH2	2.17	0.43
45:SF:231:ALA:O	45:SF:234:SER:N	2.51	0.43
45:SF:323:THR:O	45:SF:326:VAL:N	2.51	0.43
44:SG:268:MET:HB2	44:SG:379:SER:C	2.38	0.43
45:SH:132:GLY:HA3	45:SH:163:ILE:CG1	2.48	0.43
45:SH:391:ARG:HA	45:SH:391:ARG:HD2	1.88	0.43
44:SI:60:LYS:NZ	44:SI:85:GLN:O	2.51	0.43
44:SI:99:ALA:O	44:SI:105:ARG:NE	2.50	0.43
44:SK:141:VAL:HG22	44:SK:187:SER:OG	2.19	0.43
44:SK:208:ALA:O	44:SK:212:ILE:HG12	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:236:SER:HA	44:SK:243:ARG:NH2	2.33	0.43
45:SL:21:TRP:HH2	45:SL:63:ALA:CA	2.30	0.43
45:SL:331:LEU:HD22	44:SM:177:VAL:HG22	1.99	0.43
44:SM:1:MET:O	44:SM:131:GLY:HA3	2.17	0.43
44:SM:141:VAL:HG13	44:SM:142:GLY:N	2.34	0.43
44:SM:175:PRO:HB2	44:SM:176:GLN:OE1	2.18	0.43
44:SM:219:ILE:HG22	44:SM:220:GLU:N	2.33	0.43
44:SM:231:ILE:HG22	44:SM:235:ILE:HG12	1.99	0.43
44:SM:387:VAL:HG12	44:SM:390:ARG:HH11	1.84	0.43
44:SM:396:ASP:OD2	44:SM:422:ARG:NH2	2.51	0.43
45:SN:374:ILE:HD11	45:SN:422:TYR:CZ	2.53	0.43
44:TA:11:GLN:O	44:TA:15:GLN:HG3	2.18	0.43
44:TA:18:ASN:O	44:TA:22:GLU:OE1	2.36	0.43
44:TC:91:GLN:HG3	44:TC:92:LEU:HD12	2.01	0.43
44:TC:209:ILE:HG21	44:TC:227:LEU:HB3	2.00	0.43
44:TE:63:PRO:CG	44:TE:86:LEU:HD11	2.49	0.43
44:TE:155:GLU:O	44:TE:159:VAL:HG12	2.19	0.43
44:TE:223:THR:O	44:TE:224:TYR:C	2.56	0.43
44:TE:344:VAL:HG11	44:TE:346:TRP:CH2	2.53	0.43
44:TE:428:LEU:HG	44:TE:432:TYR:CD2	2.52	0.43
45:TF:96:GLY:O	45:TF:103:LYS:HD3	2.19	0.43
45:TF:156:ARG:HD3	45:TF:195:ASN:O	2.17	0.43
45:TF:227:HIS:O	45:TF:230:SER:HB2	2.18	0.43
45:TF:285:THR:C	45:TF:287:PRO:HD2	2.39	0.43
44:TG:242:LEU:HD11	44:TG:252:ILE:HG12	2.00	0.43
45:TH:253:LEU:HD21	45:TH:316:LEU:CD1	2.47	0.43
44:TI:188:ILE:HG23	44:TI:425:LEU:HD12	1.99	0.43
44:TI:204:LEU:O	44:TI:209:ILE:HD11	2.18	0.43
45:TJ:2:ARG:NH2	45:TJ:240:LEU:HG	2.32	0.43
45:TJ:133:PHE:CD2	45:TJ:155:VAL:HG11	2.53	0.43
45:TJ:330:MET:SD	45:TJ:351:SER:HB3	2.58	0.43
45:TL:68:LEU:O	45:TL:96:GLY:N	2.52	0.43
45:TL:116:VAL:O	45:TL:119:VAL:HG12	2.18	0.43
45:TL:150:LEU:HD21	45:TL:154:LYS:HE2	1.99	0.43
45:TL:156:ARG:HD3	45:TL:164:MET:HE3	2.00	0.43
45:TL:347:ASN:O	44:TM:181:VAL:HA	2.18	0.43
44:TM:225:THR:O	44:TM:229:ARG:NE	2.48	0.43
44:TM:288:VAL:HG11	44:TM:323:VAL:HG23	2.00	0.43
44:TM:348:PRO:HG2	45:TN:388:MET:HE3	2.00	0.43
45:TN:210:ILE:O	45:TN:214:THR:OG1	2.30	0.43
45:TN:317:PHE:HB2	45:TN:353:ILE:CG1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TN:324:LYS:O	45:TN:327:ASP:N	2.52	0.43
44:UA:2:ARG:HG3	44:UA:51:THR:OG1	2.18	0.43
44:UA:215:ARG:NH2	44:UA:299:ALA:O	2.43	0.43
44:UA:287:SER:N	44:UA:290:GLU:OE2	2.51	0.43
45:UB:155:VAL:HG13	45:UB:159:TYR:CD1	2.53	0.43
45:UD:287:PRO:HA	45:UD:290:THR:CG2	2.45	0.43
44:UE:336:LYS:HE3	44:UE:336:LYS:CA	2.47	0.43
44:UE:387:VAL:CA	44:UE:390:ARG:HH11	2.28	0.43
45:UF:113:ILE:HD13	45:UF:150:LEU:HD22	1.96	0.43
45:UF:268:ILE:N	45:UF:299:MET:HE3	2.33	0.43
44:UG:383:ALA:O	44:UG:386:GLU:HG2	2.19	0.43
45:UH:134:GLN:HA	45:UH:165:GLU:HB2	2.01	0.43
44:UI:81:GLY:O	44:UI:84:ARG:HG2	2.18	0.43
45:UJ:5:VAL:HG22	45:UJ:133:PHE:CE1	2.53	0.43
45:UJ:16:ILE:HD11	48:UJ:501:GDP:N2	2.33	0.43
45:UJ:135:ILE:HG13	45:UJ:152:ILE:CD1	2.48	0.43
45:UJ:146:GLY:O	45:UJ:149:THR:HG22	2.18	0.43
45:UJ:296:ALA:HB3	45:UJ:306:ARG:NH2	2.33	0.43
44:UK:19:ALA:HA	44:UK:22:GLU:OE1	2.18	0.43
44:UK:70:LEU:HD13	44:UK:110:ILE:HD12	1.97	0.43
44:UK:118:CYS:O	44:UK:122:ILE:HG12	2.18	0.43
44:UK:156:ARG:O	44:UK:159:VAL:HG12	2.19	0.43
45:UL:49:VAL:HG11	45:UL:241:ARG:CG	2.49	0.43
45:UL:52:ASN:O	45:UL:60:VAL:HG12	2.18	0.43
45:UL:139:LEU:HG	45:UL:188:SER:OG	2.17	0.43
45:UL:173:PRO:HD3	45:UL:380:ARG:HH11	1.83	0.43
45:UN:268:ILE:O	45:UN:300:MET:HB2	2.18	0.43
45:UN:315:ALA:HB3	45:UN:350:LYS:O	2.18	0.43
44:VA:71:GLU:OE1	44:VA:73:THR:HB	2.18	0.43
44:VA:195:LEU:C	44:VA:266:HIS:HE2	2.21	0.43
44:VA:298:PRO:O	44:VA:301:MET:HE2	2.18	0.43
44:VC:71:GLU:HG2	44:VC:98:ASP:HB2	1.99	0.43
44:VC:256:GLN:O	44:VC:260:VAL:HB	2.18	0.43
45:VD:183:TYR:HE2	45:VD:394:PHE:CB	2.31	0.43
44:VE:257:THR:HG23	45:VH:397:TRP:CH2	2.52	0.43
45:VF:391:ARG:HA	45:VF:391:ARG:HD2	1.81	0.43
45:VH:65:LEU:HD22	45:VH:90:PHE:CZ	2.53	0.43
45:VH:69:GLU:HA	45:VH:70:PRO:HD3	1.87	0.43
45:VH:77:ARG:O	45:VH:82:GLY:HA3	2.18	0.43
45:VH:86:ARG:NH1	45:WH:281:TYR:HB2	2.34	0.43
45:VH:101:TRP:CB	45:VH:398:TYR:HE1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:348:ASN:OD1	45:VH:349:ILE:HD12	2.18	0.43
45:VH:398:TYR:HB3	45:VH:403:MET:HE3	1.98	0.43
44:VI:183:GLU:N	44:VI:184:PRO:CD	2.81	0.43
45:VJ:180:VAL:O	45:VJ:180:VAL:HG22	2.17	0.43
45:VJ:185:ALA:O	45:VJ:189:VAL:HG23	2.18	0.43
45:VJ:314:SER:HB3	45:VJ:368:VAL:HG21	2.00	0.43
44:VK:186:ASN:HA	44:VK:189:LEU:CB	2.39	0.43
45:VL:256:ASN:HD22	45:VL:350:LYS:NZ	2.15	0.43
45:VN:83:GLN:HA	45:VN:83:GLN:OE1	2.18	0.43
45:VN:208:TYR:CE1	45:VN:225:LEU:HD11	2.53	0.43
44:WA:186:ASN:O	44:WA:189:LEU:HB2	2.19	0.43
44:WA:387:VAL:HG23	44:WA:388:PHE:N	2.33	0.43
45:WB:304:ASP:OD1	45:WB:305:PRO:HD2	2.18	0.43
45:WD:45:GLU:C	45:WD:46:ARG:HD3	2.38	0.43
45:WF:34:GLY:O	45:WF:58:ARG:HA	2.18	0.43
45:WF:77:ARG:NH1	45:WF:82:GLY:O	2.51	0.43
45:WF:244:GLY:HA2	45:WF:355:ASP:OD2	2.17	0.43
44:WG:107:HIS:O	44:WG:107:HIS:ND1	2.51	0.43
44:WG:209:ILE:CG2	44:WG:227:LEU:HD22	2.47	0.43
45:WH:86:ARG:NE	45:WH:87:PRO:HD2	2.14	0.43
45:WH:385:PHE:CG	45:WH:386:THR:N	2.86	0.43
45:WL:68:LEU:HD23	45:WL:97:ALA:N	2.33	0.43
45:WL:242:PHE:HD2	45:WL:356:ILE:HB	1.83	0.43
44:WM:5:ILE:HG22	44:WM:7:ILE:HD11	1.99	0.43
44:WM:63:PRO:HG2	44:WM:86:LEU:HG	2.00	0.43
44:WM:143:GLY:O	44:WM:147:SER:OG	2.31	0.43
44:WM:280:LYS:HE3	44:WM:283:HIS:CE1	2.53	0.43
44:WM:286:LEU:CG	44:WM:373:ARG:HH21	2.20	0.43
45:WN:66:MET:SD	45:WN:116:VAL:HG21	2.58	0.43
1:6H:209:LEU:HD23	45:FD:224:ASP:HA	1.99	0.43
5:0D:53:ILE:O	44:EC:221:ARG:HG2	2.18	0.43
8:0G:144:TYR:HA	44:KM:282:TYR:CZ	2.50	0.43
19:1I:22:LEU:HD12	45:ID:45:GLU:O	2.19	0.43
20:1J:198:ARG:HD2	44:IG:370:LYS:HB2	1.98	0.43
20:1J:250:LEU:HD21	44:HI:89:PRO:HB3	1.98	0.43
20:1J:295:GLY:HA2	44:IK:219:ILE:HG21	2.00	0.43
22:1L:753:ARG:NH2	45:AD:55:THR:OG1	2.50	0.43
26:1R:153:LYS:NZ	45:AF:75:SER:O	2.41	0.43
5:2D:38:ILE:CG2	44:EK:280:LYS:HZ3	2.30	0.43
32:2I:98:ILE:HG12	45:GF:337:ASN:ND2	2.34	0.43
2:3A:23:HIS:HA	35:6R:52:TYR:OH	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3A:152:LYS:NZ	35:6R:78:ILE:O	2.46	0.43
6:3E:46:ASP:OD2	35:6R:380:ARG:N	2.46	0.43
26:3R:135:GLU:OE1	44:AK:44:GLY:HA3	2.17	0.43
37:5C:150:PHE:CE1	44:NK:26:LEU:HD11	2.53	0.43
37:5D:25:ASP:OD1	45:KN:389:PHE:CD1	2.72	0.43
37:5D:58:TYR:O	45:KN:388:MET:HE1	2.19	0.43
38:5F:32:ALA:HB3	44:OC:279:GLU:CD	2.39	0.43
38:5H:90:SER:HG	45:KN:194:GLU:HA	1.84	0.43
39:5J:31:SER:O	39:5J:35:ILE:HG12	2.17	0.43
39:5J:69:LYS:O	39:5J:73:LEU:HD13	2.18	0.43
39:5K:38:HIS:O	39:5K:41:ILE:HB	2.19	0.43
11:5Q:180:GLU:HG2	11:5Q:181:PHE:H	1.83	0.43
35:5R:34:VAL:O	35:5R:35:ASN:OD1	2.35	0.43
35:5R:175:GLU:CD	45:AL:31:ASP:HB3	2.39	0.43
36:5S:177:GLU:O	36:5S:180:VAL:HG12	2.19	0.43
41:6G:146:VAL:HG13	41:6G:146:VAL:O	2.18	0.43
41:6G:191:ASP:O	41:6G:194:VAL:HG12	2.19	0.43
11:6Q:107:ASN:N	11:6Q:123:MET:HG2	2.33	0.43
35:7R:144:PHE:O	45:AD:78:ALA:HA	2.18	0.43
42:8N:228:UNK:HA	44:RE:370:LYS:NZ	2.33	0.43
42:8N:321:UNK:O	42:8N:325:UNK:N	2.51	0.43
44:AA:70:LEU:HD12	44:AA:145:THR:CB	2.49	0.43
44:AA:89:PRO:HG3	44:BA:280:LYS:CG	2.48	0.43
44:AA:102:ASN:CG	44:AA:105:ARG:HG3	2.38	0.43
44:AA:185:TYR:HE2	44:AA:404:PHE:CB	2.31	0.43
44:AA:231:ILE:O	44:AA:234:VAL:HB	2.17	0.43
44:AA:274:PRO:CG	44:AA:286:LEU:HD12	2.48	0.43
44:AA:311:LYS:HD2	44:AA:342:GLN:HG2	1.98	0.43
45:AB:1:MET:C	45:AB:2:ARG:HG2	2.39	0.43
45:AB:143:THR:HG23	45:AB:144:GLY:N	2.33	0.43
44:AC:358:GLN:OE1	44:AC:359:PRO:HD2	2.18	0.43
44:AE:268:MET:HG3	44:AE:378:ILE:HG23	1.98	0.43
44:AE:375:VAL:O	44:AE:375:VAL:HG23	2.18	0.43
45:AF:68:LEU:HD13	45:AF:147:MET:HE3	2.01	0.43
44:AG:175:PRO:HG3	44:AG:304:LYS:HG2	2.00	0.43
44:AG:185:TYR:O	44:AG:188:ILE:HG22	2.18	0.43
44:AG:265:ILE:HG22	44:AG:380:ASN:HD21	1.83	0.43
44:AI:407:TRP:HZ3	45:AJ:255:VAL:CA	2.28	0.43
45:AJ:170:VAL:CG2	45:AJ:171:PRO:HD2	2.48	0.43
45:AJ:260:PHE:HB3	45:AJ:261:PRO:HD2	2.00	0.43
44:AK:8:HIS:CD2	44:AK:17:GLY:HA3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:285:GLN:HG3	44:AK:287:SER:H	1.83	0.43
45:AL:318:ARG:CD	45:AL:358:PRO:CD	2.94	0.43
45:AN:330:MET:CA	45:AN:333:VAL:HG12	2.43	0.43
44:BC:325:PRO:HG2	45:BF:222:TYR:CD2	2.53	0.43
44:BE:89:PRO:HG2	44:CE:280:LYS:HB3	1.99	0.43
44:BG:292:THR:HG21	44:BG:331:SER:CB	2.45	0.43
44:BG:407:TRP:CE3	45:BH:255:VAL:HG22	2.53	0.43
45:BH:210:ILE:HD13	45:BH:300:MET:CE	2.49	0.43
45:BH:282:ARG:HG2	45:BH:282:ARG:HH11	1.83	0.43
44:BI:163:LYS:HG2	44:BI:163:LYS:O	2.18	0.43
44:BI:398:MET:CE	45:BJ:346:PRO:HD2	2.48	0.43
45:BJ:40:SER:OG	45:BJ:43:GLN:HG3	2.18	0.43
44:BK:179:THR:O	45:BL:350:LYS:HG3	2.18	0.43
45:BL:66:MET:SD	45:BL:151:LEU:HD22	2.58	0.43
44:CA:272:TYR:OH	44:CA:360:PRO:HG3	2.18	0.43
44:CC:145:THR:OG1	46:CC:501:GTP:O1B	2.37	0.43
44:CC:290:GLU:HA	44:CC:293:ASN:HB2	2.00	0.43
45:CD:144:GLY:O	45:CD:148:GLY:N	2.46	0.43
45:CD:245:GLN:CB	45:CD:246:LEU:HD12	2.48	0.43
45:CD:260:PHE:HE1	45:CD:425:TYR:CE2	2.36	0.43
44:CE:311:LYS:HE2	44:CE:342:GLN:CD	2.39	0.43
44:CG:29:GLY:HA3	44:CG:42:ILE:HG13	2.00	0.43
44:CG:292:THR:HG21	44:CG:331:SER:CB	2.46	0.43
45:CH:180:VAL:C	45:CH:182:PRO:HD2	2.39	0.43
45:CH:238:CYS:CB	45:CH:318:ARG:HH21	2.31	0.43
45:CH:306:ARG:CB	45:CH:306:ARG:HH11	2.30	0.43
45:CH:356:ILE:O	45:CH:358:PRO:HD2	2.18	0.43
45:CJ:200:MET:HE2	45:CJ:268:ILE:HG21	2.00	0.43
45:CJ:252:LYS:HE3	45:CJ:350:LYS:HZ1	1.83	0.43
45:CJ:263:LEU:HD23	45:CJ:422:TYR:HD1	1.82	0.43
45:CJ:324:LYS:HE2	45:CJ:324:LYS:HA	2.00	0.43
44:CM:288:VAL:O	44:CM:291:ILE:HG12	2.19	0.43
45:CN:55:THR:HG23	45:DN:283:ALA:HA	2.00	0.43
45:DB:99:ASN:HA	45:DB:142:GLY:H	1.83	0.43
45:DB:284:LEU:HD11	45:DB:361:LEU:HD11	2.00	0.43
44:DC:183:GLU:N	44:DC:184:PRO:CD	2.81	0.43
44:DC:212:ILE:HD11	44:DC:300:ASN:CA	2.46	0.43
44:DC:229:ARG:NH1	44:DC:363:VAL:HG11	2.33	0.43
44:DC:244:PHE:CE2	44:DC:358:GLN:HG2	2.53	0.43
44:DE:221:ARG:HD2	44:DE:221:ARG:HA	1.87	0.43
44:DE:344:VAL:HG22	44:DE:345:ASP:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:267:MET:O	45:DF:369:GLY:N	2.52	0.43
44:DG:210:TYR:OH	44:DG:224:TYR:HE1	2.02	0.43
44:DG:349:THR:HG23	45:DH:179:VAL:CA	2.42	0.43
45:DH:91:VAL:HG21	45:DH:116:VAL:HG23	1.99	0.43
44:DI:88:HIS:HB3	44:DI:91:GLN:CG	2.48	0.43
44:DI:204:LEU:HD22	44:DI:231:ILE:HD12	2.00	0.43
45:DJ:347:ASN:ND2	44:DK:178:SER:HB3	2.34	0.43
44:DK:54:SER:HB3	44:DK:64:ARG:HH22	1.84	0.43
45:DL:326:VAL:O	45:DL:330:MET:HG2	2.18	0.43
44:DM:31:GLN:HG3	44:DM:35:GLN:O	2.19	0.43
44:DM:148:GLY:HA2	44:DM:151:SER:OG	2.19	0.43
44:EA:132:LEU:HD23	44:EA:132:LEU:O	2.18	0.43
45:EB:273:LEU:H	45:EB:282:ARG:HH12	1.66	0.43
45:EB:395:LEU:HD13	45:EB:408:PHE:CE2	2.54	0.43
44:EC:95:GLY:HA2	44:EC:114:ILE:HD11	2.00	0.43
44:EC:402:ARG:HG3	44:EC:402:ARG:O	2.19	0.43
45:ED:286:VAL:HB	45:ED:325:GLU:HG2	1.99	0.43
45:ED:289:LEU:C	45:ED:293:MET:HE2	2.39	0.43
44:EE:51:THR:HG21	44:EE:243:ARG:HD2	2.00	0.43
44:EE:395:PHE:CE1	44:EE:399:TYR:HB2	2.54	0.43
45:EF:60:VAL:O	45:EF:60:VAL:HG13	2.18	0.43
45:EF:410:GLU:HA	45:EF:413:SER:OG	2.18	0.43
44:EG:292:THR:HG21	44:EG:331:SER:HB3	2.00	0.43
44:EG:298:PRO:HB2	44:EG:308:ARG:NH1	2.32	0.43
45:EH:21:TRP:CZ2	45:EH:61:PRO:HB3	2.54	0.43
45:EH:192:LEU:CG	45:EH:196:ALA:HB2	2.48	0.43
45:EH:256:ASN:CB	45:EH:350:LYS:HD2	2.49	0.43
45:EH:288:GLU:HA	45:EH:291:GLN:HG3	2.01	0.43
44:EI:204:LEU:HD23	44:EI:302:MET:CE	2.49	0.43
45:EJ:294:PHE:HD2	45:EJ:333:VAL:HG11	1.81	0.43
44:EK:1:MET:C	44:EK:2:ARG:HD3	2.39	0.43
44:EM:287:SER:O	44:EM:290:GLU:HG2	2.18	0.43
45:EN:173:PRO:CG	45:EN:380:ARG:HD3	2.49	0.43
45:EN:392:LYS:O	45:EN:392:LYS:HG2	2.18	0.43
44:FA:108:TYR:HA	44:FA:112:LYS:HE3	2.00	0.43
44:FA:185:TYR:HB3	44:FA:418:PHE:HE1	1.84	0.43
44:FA:269:LEU:N	44:FA:379:SER:O	2.46	0.43
44:FA:292:THR:HG23	44:FA:293:ASN:N	2.34	0.43
44:FA:324:VAL:O	44:FA:327:ASP:HB2	2.18	0.43
45:FB:105:HIS:O	45:FB:105:HIS:ND1	2.51	0.43
45:FB:118:ASP:O	45:FB:122:LYS:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:245:GLN:C	45:FB:246:LEU:HD12	2.38	0.43
44:FC:93:ILE:CG2	44:FC:117:LEU:HD23	2.48	0.43
44:FC:217:LEU:HD21	44:FC:275:ILE:HG22	2.01	0.43
44:FC:278:ALA:HA	44:FC:369:ALA:CB	2.48	0.43
45:FD:135:ILE:N	45:FD:165:GLU:O	2.43	0.43
45:FD:315:ALA:C	45:FD:316:LEU:HD12	2.38	0.43
44:FE:270:SER:HB2	44:FE:377:MET:O	2.18	0.43
45:FF:11:GLN:HA	45:FF:14:ASN:ND2	2.32	0.43
45:FF:20:PHE:O	45:FF:24:ILE:HG12	2.18	0.43
45:FF:117:LEU:O	45:FF:120:VAL:HG12	2.18	0.43
45:FH:101:TRP:CE3	45:FH:187:LEU:HD13	2.53	0.43
45:FH:113:ILE:C	45:FH:116:VAL:HG12	2.39	0.43
45:FH:274:THR:OG1	45:FH:282:ARG:HD3	2.18	0.43
45:FH:279:GLN:HA	45:FH:282:ARG:HE	1.83	0.43
45:FH:360:GLY:O	45:FH:361:LEU:HD23	2.18	0.43
45:FH:391:ARG:HH11	45:FH:391:ARG:HG2	1.83	0.43
44:FI:128:ASN:HD21	44:GI:285:GLN:NE2	2.16	0.43
44:FI:136:LEU:CD2	44:FI:167:LEU:HB2	2.48	0.43
44:FI:208:ALA:HB3	44:FI:302:MET:O	2.18	0.43
44:FI:212:ILE:CG2	44:FI:213:CYS:N	2.82	0.43
44:FI:403:ALA:O	44:FI:404:PHE:HB2	2.17	0.43
45:FJ:62:ARG:O	45:FJ:62:ARG:HG3	2.18	0.43
45:FJ:151:LEU:O	45:FJ:155:VAL:HG22	2.18	0.43
45:FJ:248:SER:CB	45:FJ:252:LYS:HD2	2.49	0.43
44:FK:12:GLY:O	44:FK:16:VAL:HG23	2.18	0.43
44:FM:236:SER:OG	44:FM:243:ARG:NH2	2.50	0.43
45:FN:169:VAL:HG22	45:FN:202:ILE:HG21	1.99	0.43
45:FN:285:THR:HB	45:FN:287:PRO:HD2	2.00	0.43
45:FN:318:ARG:CD	45:FN:358:PRO:HD3	2.41	0.43
44:GA:277:SER:O	44:GA:281:ALA:N	2.52	0.43
44:GA:286:LEU:HG	44:GA:371:VAL:CG2	2.49	0.43
45:GB:175:VAL:O	45:GB:175:VAL:HG23	2.18	0.43
44:GC:26:LEU:HD22	44:GC:364:PRO:HD3	1.99	0.43
44:GC:180:ALA:HA	45:GD:350:LYS:HG3	2.00	0.43
44:GE:66:VAL:HG11	44:GE:121:ARG:HG3	1.99	0.43
45:GH:113:ILE:CA	45:GH:116:VAL:HG12	2.46	0.43
44:GI:209:ILE:CG2	44:GI:227:LEU:HD13	2.49	0.43
44:GI:354:GLY:C	44:GI:355:ILE:HG13	2.39	0.43
45:GJ:17:GLY:CA	45:GJ:20:PHE:HB3	2.45	0.43
44:GK:84:ARG:HG3	44:GK:85:GLN:HG2	1.99	0.43
44:GK:306:ASP:HB3	44:GK:309:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GL:103:LYS:N	45:GL:401:GLU:OE1	2.51	0.43
45:GL:309:ARG:HG2	45:GL:340:TYR:CA	2.43	0.43
45:GL:391:ARG:HA	45:GL:391:ARG:HD2	1.78	0.43
44:GM:177:VAL:CG2	45:GN:331:LEU:HD22	2.48	0.43
44:GM:311:LYS:CD	44:GM:342:GLN:HG3	2.47	0.43
45:GN:270:PHE:HE1	45:GN:364:ALA:HB1	1.84	0.43
44:HC:259:LEU:HD21	44:HC:316:SER:HB3	2.00	0.43
45:HD:175:VAL:HG13	45:HD:205:GLU:HG3	1.99	0.43
45:HD:209:ASP:O	45:HD:213:ARG:HG3	2.18	0.43
45:HF:30:ILE:HD11	45:HF:36:TYR:HD2	1.83	0.43
45:HF:248:SER:OG	45:HF:253:LEU:HD12	2.18	0.43
44:HG:324:VAL:HG13	44:HG:325:PRO:HD2	2.00	0.43
45:HH:295:ASP:CG	45:HH:297:LYS:HG2	2.39	0.43
44:HI:183:GLU:HG2	44:HI:184:PRO:N	2.34	0.43
45:HJ:32:PRO:HG3	45:HJ:81:PHE:CE1	2.53	0.43
45:HJ:163:ILE:HD13	45:HJ:251:ARG:HG3	1.96	0.43
45:HJ:166:THR:O	45:HJ:199:CYS:HA	2.19	0.43
45:HJ:238:CYS:SG	45:HJ:239:CYS:N	2.91	0.43
44:HK:240:ALA:HB1	44:HK:356:ASN:HD22	1.83	0.43
44:HK:430:LYS:O	44:HK:433:GLU:N	2.51	0.43
44:HM:271:SER:HB2	44:HM:377:MET:CE	2.48	0.43
44:HM:415:GLU:OE1	44:HM:415:GLU:HA	2.19	0.43
45:HN:268:ILE:O	45:HN:299:MET:HE1	2.19	0.43
44:IA:172:TYR:HE2	44:IA:203:MET:HE2	1.82	0.43
44:IA:202:VAL:HG12	44:IA:203:MET:N	2.33	0.43
44:IA:262:TYR:OH	45:ID:393:ALA:HB2	2.17	0.43
44:IA:397:LEU:O	44:IA:400:ALA:HB3	2.18	0.43
44:IA:401:LYS:O	44:IA:401:LYS:HG3	2.18	0.43
45:IB:229:VAL:O	45:IB:233:MET:HG2	2.18	0.43
45:IB:258:ILE:HG12	45:IB:260:PHE:O	2.18	0.43
45:IB:403:MET:HE1	45:IB:408:PHE:HZ	1.82	0.43
45:ID:80:PRO:O	45:ID:81:PHE:HB2	2.19	0.43
44:IE:243:ARG:O	44:IE:244:PHE:HD1	2.01	0.43
45:IF:283:ALA:O	45:IF:288:GLU:HG3	2.18	0.43
45:IH:383:GLU:O	45:IH:386:THR:HG22	2.17	0.43
44:II:11:GLN:HB2	46:II:501:GTP:O1B	2.19	0.43
44:II:210:TYR:HE1	44:II:227:LEU:HD11	1.83	0.43
44:IK:175:PRO:HG2	44:IK:304:LYS:HG3	2.01	0.43
44:IK:177:VAL:HG22	44:IK:207:GLU:OE1	2.18	0.43
44:IK:212:ILE:CD1	44:IK:215:ARG:HH22	2.32	0.43
44:IK:253:THR:HG23	44:IK:254:GLU:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IL:245:GLN:C	45:IL:246:LEU:HD12	2.38	0.43
44:IM:182:VAL:HG22	44:IM:182:VAL:O	2.18	0.43
44:IM:240:ALA:HA	44:IM:243:ARG:NH1	2.33	0.43
45:IN:116:VAL:CA	45:IN:119:VAL:HG12	2.48	0.43
45:IN:180:VAL:HG22	45:IN:180:VAL:O	2.18	0.43
44:JA:250:VAL:HG12	44:JA:352:LYS:NZ	2.34	0.43
45:JB:30:ILE:HG13	45:JB:30:ILE:O	2.17	0.43
45:JB:77:ARG:HB3	45:JB:77:ARG:NH1	2.33	0.43
45:JB:269:GLY:HA2	45:JB:300:MET:HE2	2.00	0.43
44:JC:145:THR:HG23	44:JC:146:GLY:N	2.33	0.43
44:JC:256:GLN:HG3	44:JC:257:THR:HG23	2.00	0.43
45:JD:163:ILE:HG13	45:JD:197:ASP:OD2	2.19	0.43
44:JE:241:SER:HA	44:JE:356:ASN:ND2	2.20	0.43
45:JF:133:PHE:HD2	45:JF:155:VAL:HG11	1.81	0.43
45:JF:156:ARG:HD3	45:JF:195:ASN:CB	2.45	0.43
44:JG:256:GLN:H	44:JG:256:GLN:CD	2.20	0.43
45:JH:314:SER:HA	45:JH:350:LYS:HB3	2.00	0.43
44:JI:52:PHE:O	44:JI:53:PHE:HD1	2.01	0.43
44:JI:185:TYR:HE2	44:JI:403:ALA:O	2.01	0.43
45:JJ:22:GLU:OE2	45:JJ:81:PHE:HB2	2.19	0.43
45:JJ:202:ILE:HD11	45:JJ:268:ILE:CD1	2.48	0.43
45:JJ:341:PHE:HE2	45:JJ:349:ILE:HD11	1.83	0.43
45:JJ:350:LYS:CG	45:JJ:351:SER:N	2.81	0.43
44:JK:26:LEU:CD1	44:JK:363:VAL:HG12	2.38	0.43
44:JK:103:PHE:CE2	44:JK:107:HIS:HB2	2.54	0.43
44:JK:387:VAL:HA	44:JK:390:ARG:HG2	2.00	0.43
45:JL:8:GLN:HE21	45:JL:65:LEU:CG	2.26	0.43
44:JM:102:ASN:HD21	44:JM:411:GLU:HG3	1.84	0.43
44:JM:286:LEU:N	44:JM:290:GLU:OE2	2.51	0.43
44:JM:387:VAL:HG23	44:JM:388:PHE:N	2.32	0.43
45:JN:113:ILE:O	45:JN:116:VAL:HG12	2.18	0.43
45:JN:120:VAL:O	45:JN:124:ALA:N	2.47	0.43
44:KA:91:GLN:CG	44:KA:92:LEU:HD12	2.48	0.43
44:KA:138:PHE:CE1	44:KA:169:PHE:HB2	2.53	0.43
44:KA:402:ARG:O	44:KA:405:VAL:HG12	2.19	0.43
45:KB:28:HIS:HA	45:KB:43:GLN:OE1	2.19	0.43
45:KB:319:GLY:HA3	45:KB:357:PRO:HB3	1.99	0.43
44:KC:166:LYS:NZ	44:KC:166:LYS:HB2	2.33	0.43
45:KD:8:GLN:OE1	45:KD:17:GLY:HA3	2.18	0.43
44:KE:97:GLU:HA	45:KF:2:ARG:NH2	2.33	0.43
45:KF:130:LEU:HD21	45:KF:133:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KH:31:ASP:OD1	45:KH:34:GLY:N	2.52	0.43
45:KJ:131:GLN:O	45:KJ:163:ILE:HG22	2.18	0.43
44:KK:205:ASP:OD2	44:KK:303:ALA:HA	2.19	0.43
44:KK:349:THR:HB	45:KN:176:SER:OG	2.18	0.43
45:KL:1:MET:HB3	45:KL:2:ARG:NH1	2.27	0.43
44:KM:265:ILE:HD12	44:KM:432:TYR:CZ	2.53	0.43
45:KN:187:LEU:HD11	45:KN:408:PHE:HZ	1.79	0.43
45:LB:28:HIS:HA	45:LB:43:GLN:HG2	2.00	0.43
45:LB:156:ARG:HA	45:LB:156:ARG:HD2	1.79	0.43
44:LC:407:TRP:CD1	45:LD:255:VAL:HG23	2.52	0.43
45:LD:395:LEU:O	45:LD:399:THR:HG23	2.18	0.43
44:LE:14:ILE:CD1	44:LE:75:ILE:HD11	2.47	0.43
44:LG:136:LEU:CD2	44:LG:235:ILE:HD11	2.48	0.43
45:LH:256:ASN:C	45:LH:257:LEU:HD22	2.38	0.43
44:LI:107:HIS:ND1	44:LI:152:LEU:HD21	2.34	0.43
44:LI:175:PRO:HG2	44:LI:304:LYS:HG2	2.01	0.43
44:LI:275:ILE:O	44:LI:275:ILE:CG2	2.64	0.43
44:LI:362:VAL:O	44:LI:362:VAL:HG13	2.18	0.43
44:LI:426:ALA:HA	44:LI:429:GLU:OE1	2.18	0.43
45:LL:21:TRP:CH2	45:LL:61:PRO:HA	2.53	0.43
45:LL:49:VAL:HG21	45:LL:241:ARG:HG2	1.99	0.43
44:LM:71:GLU:OE1	44:LM:73:THR:HB	2.18	0.43
44:LM:194:LEU:HD11	44:LM:267:PHE:HE1	1.83	0.43
44:LM:318:MET:HA	44:LM:354:GLY:H	1.83	0.43
45:LN:66:MET:SD	45:LN:151:LEU:HD22	2.58	0.43
44:MA:66:VAL:HB	44:MA:91:GLN:NE2	2.33	0.43
44:MA:276:ILE:HG23	44:MA:281:ALA:HB1	2.00	0.43
44:MA:288:VAL:C	44:MA:291:ILE:HG12	2.38	0.43
44:MC:68:LEU:CD1	44:MC:93:ILE:HB	2.48	0.43
44:MC:237:SER:CA	44:MC:320:ARG:HH11	2.28	0.43
44:MC:355:ILE:HD12	44:MC:355:ILE:N	2.34	0.43
44:MC:425:LEU:HD23	44:MC:425:LEU:HA	1.88	0.43
45:MD:172:SER:HB2	45:MD:173:PRO:HD2	2.00	0.43
44:ME:188:ILE:HG13	44:ME:395:PHE:HD1	1.82	0.43
45:MF:361:LEU:C	45:MF:362:LYS:HD3	2.38	0.43
44:MG:19:ALA:HB2	44:MG:228:ASN:ND2	2.33	0.43
44:MG:388:PHE:CD2	44:MG:428:LEU:HD21	2.53	0.43
44:MI:7:ILE:HD11	44:MI:122:ILE:CD1	2.48	0.43
44:MK:284:GLU:CD	44:MK:286:LEU:HD22	2.39	0.43
45:MN:151:LEU:HD23	45:MN:155:VAL:CG1	2.49	0.43
44:NA:270:SER:HA	44:NA:377:MET:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:21:TRP:HZ2	44:NC:65:ALA:HB2	1.83	0.43
44:NC:109:THR:OG1	44:NC:411:GLU:HB3	2.18	0.43
45:ND:2:ARG:HH22	45:ND:46:ARG:HD2	1.82	0.43
45:ND:316:LEU:HD23	45:ND:316:LEU:HA	1.76	0.43
45:ND:318:ARG:HB3	45:ND:364:ALA:CB	2.36	0.43
44:NE:11:GLN:O	44:NE:14:ILE:HB	2.19	0.43
44:NE:104:ALA:CB	44:NE:411:GLU:HB2	2.48	0.43
44:NE:332:ILE:HD12	44:NE:351:PHE:CD2	2.53	0.43
45:NF:113:ILE:HD11	45:NF:151:LEU:CA	2.49	0.43
45:NF:394:PHE:O	45:NF:397:TRP:HD1	2.00	0.43
44:NG:141:VAL:HG11	44:NG:172:TYR:CE1	2.53	0.43
45:NH:36:TYR:CE1	45:NH:44:LEU:HD21	2.52	0.43
45:NH:42:LEU:HD12	45:NH:42:LEU:H	1.83	0.43
45:NH:97:ALA:O	45:NH:103:LYS:HE3	2.19	0.43
45:NH:184:ASN:OD1	45:NH:185:ALA:N	2.51	0.43
45:NH:285:THR:OG1	45:NH:288:GLU:HG2	2.19	0.43
44:NK:209:ILE:HG21	44:NK:227:LEU:HB3	2.00	0.43
45:NL:4:ILE:HG12	45:NL:50:TYR:HE1	1.83	0.43
45:NL:62:ARG:O	45:NL:62:ARG:HG3	2.18	0.43
44:NM:13:GLY:HA2	44:NM:16:VAL:CG1	2.47	0.43
44:NM:104:ALA:O	44:NM:109:THR:HG23	2.17	0.43
44:NM:158:SER:O	44:NM:162:GLY:HA2	2.17	0.43
44:NM:395:PHE:CE2	44:NM:422:ARG:HD3	2.54	0.43
45:NN:6:HIS:O	45:NN:7:ILE:HD13	2.18	0.43
45:NN:318:ARG:HD3	45:NN:358:PRO:HD3	2.00	0.43
45:NN:419:VAL:HG23	45:NN:420:SER:N	2.33	0.43
45:OB:238:CYS:HB2	45:OB:318:ARG:CZ	2.48	0.43
45:OB:299:MET:CE	45:OB:305:PRO:HG3	2.48	0.43
44:OC:195:LEU:HD12	44:OC:428:LEU:HD22	1.98	0.43
44:OC:256:GLN:NE2	45:OF:397:TRP:HZ2	2.16	0.43
44:OC:268:MET:HA	44:OC:379:SER:O	2.19	0.43
45:OD:108:GLU:HG2	45:OD:109:GLY:N	2.34	0.43
45:OD:138:SER:H	45:OD:144:GLY:HA3	1.83	0.43
45:OD:141:GLY:HA3	48:OD:502:GDP:O2A	2.19	0.43
44:OE:31:GLN:OE1	44:OE:35:GLN:NE2	2.50	0.43
44:OE:109:THR:OG1	44:OE:110:ILE:N	2.52	0.43
45:OF:331:LEU:HD23	45:OF:331:LEU:C	2.39	0.43
45:OF:380:ARG:O	45:OF:383:GLU:HG3	2.19	0.43
44:OG:28:HIS:CE1	44:OG:30:ILE:HD11	2.53	0.43
44:OG:346:TRP:O	44:OG:346:TRP:HE3	2.01	0.43
44:OG:346:TRP:O	45:OJ:388:MET:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:61:PRO:CD	45:OH:84:LEU:HG	2.48	0.43
45:OH:103:LYS:HG3	45:OH:108:GLU:OE1	2.18	0.43
45:OH:147:MET:SD	45:OH:147:MET:C	2.96	0.43
45:OH:200:MET:HE1	45:OH:268:ILE:HG23	1.97	0.43
45:OH:282:ARG:CG	45:OH:283:ALA:N	2.81	0.43
45:OH:341:PHE:HB3	45:OH:348:ASN:HD21	1.83	0.43
44:OI:102:ASN:HB3	44:OI:105:ARG:CG	2.48	0.43
44:OI:371:VAL:HG12	44:OI:372:MET:N	2.32	0.43
45:OJ:224:ASP:O	45:OJ:227:HIS:HB3	2.17	0.43
45:OL:68:LEU:HD21	45:OL:112:LEU:HD23	2.00	0.43
45:OL:86:ARG:CD	45:PL:281:TYR:HB3	2.45	0.43
44:OM:205:ASP:O	44:OM:209:ILE:HG13	2.18	0.43
45:ON:317:PHE:HA	45:ON:364:ALA:O	2.18	0.43
44:PA:18:ASN:O	44:PA:22:GLU:OE1	2.35	0.43
44:PA:88:HIS:HB3	44:PA:91:GLN:HG2	1.99	0.43
44:PA:104:ALA:HB3	44:PA:411:GLU:HB3	2.00	0.43
44:PA:384:ILE:O	44:PA:387:VAL:HG22	2.18	0.43
45:PB:70:PRO:HD3	45:PB:93:GLY:O	2.19	0.43
45:PB:289:LEU:CD1	45:PB:363:MET:HG2	2.48	0.43
44:PC:174:SER:HB3	44:PC:175:PRO:HD2	2.01	0.43
44:PC:260:VAL:O	45:PF:397:TRP:CH2	2.71	0.43
44:PC:313:MET:CG	44:PC:380:ASN:HD21	2.31	0.43
44:PC:352:LYS:HD3	45:PF:178:THR:HA	2.00	0.43
45:PD:383:GLU:O	45:PD:386:THR:HG22	2.18	0.43
45:PD:398:TYR:O	45:PD:403:MET:HB3	2.18	0.43
44:PE:161:TYR:C	44:PE:164:LYS:HZ1	2.15	0.43
44:PE:325:PRO:HG2	45:PH:222:TYR:CZ	2.54	0.43
44:PE:363:VAL:O	44:PE:363:VAL:HG13	2.19	0.43
44:PG:302:MET:HA	44:PG:302:MET:HE2	2.01	0.43
45:PJ:46:ARG:CB	45:PJ:241:ARG:O	2.66	0.43
45:PJ:65:LEU:HB2	45:PJ:90:PHE:CE1	2.53	0.43
45:PJ:99:ASN:HA	45:PJ:142:GLY:N	2.32	0.43
45:PJ:181:GLU:HB2	45:PJ:182:PRO:HD3	2.00	0.43
44:PK:170:THR:O	44:PK:204:LEU:HD12	2.18	0.43
44:PK:239:THR:OG1	44:PK:243:ARG:NH2	2.47	0.43
45:PL:6:HIS:NE2	45:PL:8:GLN:OE1	2.50	0.43
45:PL:67:ASP:HB3	45:PL:73:MET:SD	2.58	0.43
45:PL:304:ASP:CG	45:PL:306:ARG:HG2	2.39	0.43
45:PL:342:VAL:HG22	45:PL:343:GLU:N	2.33	0.43
44:PM:98:ASP:OD1	44:PM:99:ALA:N	2.52	0.43
45:PN:4:ILE:HG13	45:PN:4:ILE:O	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:132:GLY:HA3	45:PN:163:ILE:CG1	2.48	0.43
45:PN:186:THR:O	45:PN:189:VAL:HB	2.18	0.43
44:QA:48:ALA:HB1	44:QA:243:ARG:O	2.18	0.43
45:QB:170:VAL:CG2	45:QB:171:PRO:HD2	2.48	0.43
45:QB:190:HIS:CG	45:QB:411:ALA:HA	2.53	0.43
45:QB:238:CYS:SG	45:QB:239:CYS:N	2.92	0.43
45:QB:257:LEU:HD21	45:QB:368:VAL:HG12	1.99	0.43
44:QC:373:ARG:HG3	44:QC:373:ARG:HH11	1.82	0.43
44:QC:426:ALA:CA	44:QC:429:GLU:HB2	2.44	0.43
45:QD:256:ASN:HB3	44:QE:181:VAL:CG2	2.45	0.43
44:QE:274:PRO:HD2	44:QE:374:ALA:CB	2.48	0.43
45:QF:130:LEU:HD13	45:QF:162:ARG:CZ	2.48	0.43
45:QF:130:LEU:HD12	45:QF:130:LEU:C	2.37	0.43
45:QF:196:ALA:HB3	45:QF:264:HIS:HE1	1.81	0.43
45:QF:309:ARG:CZ	45:QF:342:VAL:HA	2.46	0.43
44:QG:137:VAL:O	44:QG:168:GLY:HA2	2.18	0.43
44:QG:265:ILE:HD12	44:QG:435:VAL:HG21	2.00	0.43
44:QG:269:LEU:HD11	44:QG:301:MET:CE	2.49	0.43
45:QH:200:MET:SD	45:QH:368:VAL:HG13	2.58	0.43
44:QI:104:ALA:HB3	44:QI:411:GLU:HB2	1.99	0.43
44:QI:261:PRO:HA	45:QJ:394:PHE:CD1	2.52	0.43
45:QJ:35:THR:O	45:QJ:35:THR:HG23	2.18	0.43
45:QJ:146:GLY:HA2	45:QJ:149:THR:HG22	2.00	0.43
45:QJ:210:ILE:HD13	45:QJ:300:MET:CE	2.48	0.43
44:QK:3:GLU:HG3	44:QK:50:ASN:OD1	2.18	0.43
45:QL:229:VAL:HA	45:QL:232:ALA:CB	2.48	0.43
44:QM:96:LYS:NZ	44:QM:97:GLU:HB2	2.33	0.43
44:QM:104:ALA:CB	44:QM:411:GLU:HB2	2.48	0.43
44:QM:312:TYR:CD2	44:QM:341:ILE:HG23	2.54	0.43
44:QM:320:ARG:CA	44:QM:356:ASN:HB2	2.48	0.43
44:QM:408:TYR:CD2	44:QM:418:PHE:HZ	2.34	0.43
45:QN:11:GLN:HB2	45:QN:72:THR:OG1	2.19	0.43
45:QN:149:THR:O	45:QN:152:ILE:HB	2.18	0.43
45:QN:272:PRO:HD3	45:QN:289:LEU:HD22	2.00	0.43
44:RA:269:LEU:HG	44:RA:379:SER:OG	2.17	0.43
44:RA:395:PHE:O	44:RA:399:TYR:HB2	2.18	0.43
45:RB:324:LYS:HE2	44:RC:210:TYR:CG	2.53	0.43
44:RC:27:GLU:HG2	44:RC:361:THR:HB	2.00	0.43
44:RC:317:MET:HE2	44:RC:319:TYR:CE1	2.53	0.43
45:RD:139:LEU:HG	45:RD:188:SER:OG	2.19	0.43
45:RD:375:GLN:CD	45:RD:419:VAL:HG13	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:66:VAL:O	44:RE:66:VAL:HG23	2.17	0.43
44:RE:88:HIS:ND1	44:RE:89:PRO:HD2	2.33	0.43
44:RE:103:PHE:CD2	44:RE:189:LEU:HD13	2.53	0.43
44:RE:175:PRO:HG2	44:RE:304:LYS:HG3	2.00	0.43
45:RF:178:THR:HG22	45:RF:180:VAL:H	1.84	0.43
45:RF:199:CYS:C	45:RF:200:MET:CE	2.86	0.43
45:RF:238:CYS:SG	45:RF:239:CYS:N	2.91	0.43
45:RH:134:GLN:HG3	45:RH:134:GLN:O	2.18	0.43
45:RH:263:LEU:HG	45:RH:422:TYR:HD1	1.84	0.43
45:RJ:207:LEU:HA	45:RJ:210:ILE:HD12	1.99	0.43
45:RJ:228:LEU:HA	45:RJ:231:ALA:HB3	2.00	0.43
44:RM:150:GLY:O	44:RM:153:LEU:HB2	2.19	0.43
44:RM:324:VAL:HG11	45:RN:220:PRO:O	2.19	0.43
45:RN:1:MET:C	45:RN:2:ARG:HG2	2.38	0.43
44:SA:11:GLN:O	44:SA:15:GLN:HG3	2.17	0.43
44:SA:70:LEU:HD13	44:SA:110:ILE:CD1	2.49	0.43
45:SB:165:GLU:OE2	45:SB:250:LEU:HD22	2.18	0.43
44:SC:74:VAL:O	44:SC:78:VAL:HG23	2.19	0.43
44:SC:424:ASP:O	44:SC:427:ALA:HB3	2.18	0.43
44:SE:102:ASN:HA	44:SE:408:TYR:OH	2.19	0.43
44:SE:193:SER:O	44:SE:197:HIS:HB2	2.19	0.43
44:SE:348:PRO:HG3	45:SF:384:GLN:O	2.19	0.43
45:SF:21:TRP:HA	45:SF:24:ILE:HB	2.00	0.43
45:SF:49:VAL:HG21	45:SF:241:ARG:HG3	2.00	0.43
45:SF:276:ARG:HA	45:SF:276:ARG:HD3	1.84	0.43
44:SG:11:GLN:HB3	46:SG:501:GTP:PB	2.58	0.43
44:SG:326:LYS:CE	45:SH:219:THR:HG22	2.45	0.43
45:SH:73:MET:C	45:SH:76:VAL:HG22	2.39	0.43
45:SJ:313:ALA:HB3	45:SJ:349:ILE:HA	2.00	0.43
45:SL:327:ASP:O	45:SL:330:MET:HB2	2.18	0.43
45:SL:362:LYS:O	45:SL:363:MET:HE1	2.19	0.43
44:SM:294:SER:O	44:SM:297:GLU:HB2	2.18	0.43
45:SN:97:ALA:HB1	45:SN:143:THR:HB	1.99	0.43
45:SN:134:GLN:O	45:SN:134:GLN:HG3	2.18	0.43
45:SN:382:ALA:HB2	45:SN:415:MET:HE1	2.01	0.43
45:SN:385:PHE:HZ	45:SN:408:PHE:HD1	1.65	0.43
44:TA:350:GLY:HA2	45:TB:179:VAL:HG11	2.00	0.43
45:TB:186:THR:HG23	45:TB:415:MET:SD	2.58	0.43
45:TB:246:LEU:HA	44:TC:11:GLN:NE2	2.33	0.43
45:TB:322:SER:HB3	44:TC:221:ARG:HD3	2.01	0.43
44:TC:22:GLU:HG3	44:TC:83:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TF:102:ALA:HB2	45:TF:398:TYR:CE1	2.51	0.43
44:TG:354:GLY:C	44:TG:355:ILE:HD12	2.38	0.43
44:TG:413:MET:HE2	44:TG:418:PHE:CZ	2.53	0.43
45:TH:415:MET:HA	45:TH:418:LEU:HB3	1.99	0.43
45:TJ:73:MET:CA	45:TJ:76:VAL:HG12	2.46	0.43
45:TJ:329:GLN:OE1	45:TJ:333:VAL:HG23	2.18	0.43
44:TK:329:ASN:HA	44:TK:332:ILE:CD1	2.46	0.43
45:TL:139:LEU:HD22	45:TL:188:SER:CB	2.48	0.43
45:TL:174:LYS:HD2	45:TL:175:VAL:CG1	2.41	0.43
45:TN:257:LEU:HD21	45:TN:314:SER:HB2	2.01	0.43
45:TN:332:ASN:O	45:TN:336:LYS:HG2	2.19	0.43
44:UC:348:PRO:CD	45:UD:388:MET:HE1	2.48	0.43
45:UD:89:ASN:HA	45:UD:119:VAL:CG1	2.30	0.43
45:UD:190:HIS:CE1	45:UD:414:ASN:HD22	2.37	0.43
45:UD:251:ARG:C	45:UD:255:VAL:HG23	2.39	0.43
45:UD:288:GLU:HA	45:UD:291:GLN:HG2	2.00	0.43
44:UE:122:ILE:HA	44:UE:125:LEU:HB2	2.01	0.43
45:UF:81:PHE:CD2	45:UF:84:LEU:HD11	2.52	0.43
44:UG:70:LEU:HD23	44:UG:114:ILE:HG12	1.99	0.43
45:UH:52:ASN:OD1	45:UH:62:ARG:NH2	2.51	0.43
45:UH:285:THR:O	45:UH:288:GLU:HB2	2.19	0.43
44:UI:172:TYR:HD2	44:UI:203:MET:HE1	1.83	0.43
45:UJ:49:VAL:HG21	45:UJ:241:ARG:CD	2.48	0.43
44:UM:20:CYS:HA	44:UM:232:ALA:CB	2.47	0.43
44:UM:183:GLU:N	44:UM:184:PRO:CD	2.81	0.43
45:VB:80:PRO:O	45:VB:81:PHE:HB2	2.19	0.43
45:VB:404:ASP:HB2	45:VB:406:MET:CE	2.49	0.43
44:VE:183:GLU:CD	44:VE:184:PRO:HD3	2.39	0.43
44:VE:413:MET:CE	44:VE:413:MET:CA	2.95	0.43
45:VF:215:LEU:HD11	45:VF:228:LEU:HD21	1.99	0.43
44:VG:124:LYS:HZ1	44:WG:290:GLU:HB2	1.82	0.43
44:VG:188:ILE:HG13	44:VG:395:PHE:CG	2.52	0.43
45:VH:169:VAL:O	45:VH:169:VAL:HG23	2.18	0.43
45:VH:211:CYS:HA	45:VH:215:LEU:HD12	1.98	0.43
44:VI:88:HIS:ND1	44:VI:89:PRO:HD2	2.33	0.43
44:VK:10:GLY:C	44:VK:13:GLY:H	2.21	0.43
45:VL:97:ALA:CB	45:VL:143:THR:HA	2.49	0.43
45:VL:284:LEU:HB3	45:VL:363:MET:SD	2.58	0.43
45:VN:149:THR:OG1	45:VN:191:GLN:HB2	2.18	0.43
45:VN:246:LEU:N	45:VN:353:ILE:HB	2.33	0.43
44:WA:224:TYR:HD1	44:WA:227:LEU:HD12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:130:LEU:HD23	45:WB:162:ARG:HG3	2.00	0.43
44:WC:251:ASP:HB2	44:WC:254:GLU:HG3	2.00	0.43
44:WC:271:SER:O	44:WC:377:MET:HG2	2.18	0.43
45:WD:24:ILE:HD12	45:WD:24:ILE:H	1.84	0.43
45:WD:266:PHE:CD1	45:WD:370:ASN:HB2	2.52	0.43
45:WD:271:ALA:CB	45:WD:365:VAL:H	2.29	0.43
44:WE:204:LEU:HD23	44:WE:302:MET:HG3	2.00	0.43
44:WE:245:ASP:OD1	44:WE:246:GLY:N	2.51	0.43
45:WF:215:LEU:CD2	45:WF:273:LEU:HB3	2.48	0.43
44:WG:71:GLU:HA	44:WG:72:PRO:HD3	1.88	0.43
45:WH:257:LEU:HD11	45:WH:314:SER:CB	2.48	0.43
44:WI:269:LEU:HD21	44:WI:305:CYS:HB3	2.01	0.43
45:WJ:101:TRP:CD2	45:WJ:187:LEU:HB3	2.53	0.43
44:WK:304:LYS:CE	44:WK:387:VAL:HG12	2.48	0.43
44:WK:398:MET:HE2	45:WL:346:PRO:HD2	2.00	0.43
44:WK:427:ALA:O	44:WK:430:LYS:HB3	2.17	0.43
45:WL:221:THR:HG22	45:WL:224:ASP:CG	2.38	0.43
44:WM:119:LEU:O	44:WM:122:ILE:HB	2.18	0.43
45:WN:44:LEU:CD2	45:WN:47:ILE:HD12	2.49	0.43
45:WN:69:GLU:HA	45:WN:70:PRO:HD3	1.90	0.43
45:WN:221:THR:HG22	45:WN:224:ASP:CG	2.38	0.43
45:WN:292:GLN:C	45:WN:295:ASP:H	2.19	0.43
45:WN:395:LEU:O	45:WN:399:THR:HG23	2.19	0.43
1:6H:266:LYS:NZ	44:FE:364:PRO:O	2.49	0.43
5:0D:52:ASN:HD22	45:EB:362:LYS:NZ	2.15	0.43
15:0V:101:ILE:CD1	44:LM:415:GLU:HG3	2.48	0.43
5:1D:182:VAL:HG22	45:FF:285:THR:OG1	2.18	0.43
18:1F:120:ASN:CB	44:GI:77:GLU:HG3	2.48	0.43
9:1H:333:LYS:HD2	45:HD:279:GLN:CD	2.39	0.43
20:1J:303:ARG:HB2	44:IK:279:GLU:HG3	2.00	0.43
26:1R:112:GLU:O	45:BF:361:LEU:HD23	2.18	0.43
29:2F:78:THR:O	45:HF:332:ASN:ND2	2.48	0.43
32:2I:77:GLY:O	44:GE:340:THR:HG21	2.18	0.43
26:2R:92:TRP:CE2	44:AG:372:MET:SD	3.11	0.43
27:2W:251:ARG:NE	35:6R:17:PHE:O	2.49	0.43
2:3A:138:TRP:HZ3	44:AM:81:GLY:HA2	1.83	0.43
22:3L:42:LYS:HZ3	45:BB:356:ILE:HD11	1.83	0.43
24:3O:372:ALA:HB3	44:UI:370:LYS:HE2	1.99	0.43
26:3R:78:VAL:HG13	44:MK:364:PRO:HG3	2.00	0.43
14:3U:430:ARG:NH2	44:WM:365:GLY:H	2.06	0.43
34:4F:134:TYR:CE1	44:IK:32:PRO:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5B:127:GLU:HB3	45:NH:276:ARG:NH1	2.04	0.43
37:5D:34:PHE:CZ	44:KK:431:ASP:CA	2.73	0.43
37:5D:45:TYR:CA	44:KK:262:TYR:HH	2.27	0.43
38:5G:212:THR:HB	38:5G:214:LEU:HD11	1.97	0.43
38:5H:35:LEU:HD22	44:OK:278:ALA:HB1	2.00	0.43
38:5H:77:LYS:HD2	38:5H:80:LYS:CB	2.48	0.43
39:5I:45:LYS:O	39:5I:48:LEU:HD11	2.19	0.43
39:5K:22:TRP:HE1	45:NL:343:GLU:HB3	1.83	0.43
36:5S:209:ARG:NH2	45:WH:91:VAL:HG22	2.33	0.43
41:6G:93:LYS:HD2	41:6G:94:VAL:H	1.83	0.43
41:6G:100:PHE:HA	41:6G:103:ILE:CG2	2.48	0.43
11:6Q:61:ALA:HB3	11:6Q:62:PRO:CD	2.48	0.43
11:6Q:75:PHE:HB2	11:6Q:169:ASP:H	1.84	0.43
11:6Q:135:ASN:OD1	11:6Q:137:SER:HB2	2.19	0.43
35:6R:9:VAL:HA	35:6R:10:PRO:HD3	1.85	0.43
35:6R:415:LYS:NZ	35:6R:451:ASP:OD2	2.51	0.43
42:8L:277:UNK:O	42:8L:279:UNK:N	2.52	0.43
44:AA:22:GLU:HG3	44:AA:83:TYR:HE2	1.83	0.43
44:AA:66:VAL:HG23	44:AA:91:GLN:HB2	2.01	0.43
45:AB:183:TYR:CZ	45:AB:388:MET:HG2	2.53	0.43
45:AB:237:THR:HG23	45:AB:241:ARG:HH21	1.82	0.43
45:AB:313:ALA:HB1	45:AB:367:PHE:CZ	2.53	0.43
44:AC:7:ILE:CD1	44:AC:122:ILE:HD11	2.48	0.43
45:AD:135:ILE:HG22	45:AD:136:THR:N	2.34	0.43
45:AD:178:THR:HG22	45:AD:180:VAL:H	1.84	0.43
45:AD:404:ASP:OD1	45:AD:405:GLU:N	2.51	0.43
44:AE:202:VAL:O	44:AE:203:MET:HE1	2.19	0.43
44:AE:229:ARG:O	44:AE:232:ALA:HB3	2.18	0.43
44:AE:318:MET:SD	44:AE:354:GLY:HA3	2.59	0.43
44:AG:51:THR:HG22	44:AG:52:PHE:HD1	1.83	0.43
45:AH:325:GLU:HA	45:AH:328:GLU:HG2	1.99	0.43
45:AH:333:VAL:O	45:AH:333:VAL:HG22	2.18	0.43
44:AI:30:ILE:CG2	44:AI:34:GLY:HA2	2.49	0.43
44:AI:234:VAL:HG13	44:AI:376:CYS:SG	2.59	0.43
44:AK:361:THR:O	44:AK:361:THR:HG23	2.18	0.43
44:AM:136:LEU:HD23	44:AM:167:LEU:HB2	1.99	0.43
44:AM:215:ARG:NH2	44:AM:216:ASN:HD21	2.16	0.43
44:BA:14:ILE:HD12	44:BA:69:ASP:OD2	2.19	0.43
44:BC:1:MET:CE	45:BF:94:GLN:HA	2.48	0.43
44:BC:259:LEU:HD21	44:BC:316:SER:CB	2.48	0.43
45:BD:135:ILE:HD13	45:BD:152:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:175:VAL:HG13	45:BD:205:GLU:OE1	2.18	0.43
44:BE:182:VAL:O	44:BE:182:VAL:HG22	2.18	0.43
45:BF:163:ILE:HD11	45:BF:250:LEU:HD12	1.99	0.43
44:BG:106:GLY:O	44:BG:149:LEU:HD22	2.19	0.43
44:BG:132:LEU:HB2	44:BG:164:LYS:HZ2	1.84	0.43
45:BH:261:PRO:HG2	45:BH:262:ARG:HH11	1.83	0.43
44:BI:224:TYR:HB3	46:BI:501:GTP:O6	2.18	0.43
45:BJ:207:LEU:HD23	45:BJ:300:MET:SD	2.58	0.43
44:BK:3:GLU:CD	44:BK:131:GLY:H	2.22	0.43
44:BK:401:LYS:HE3	45:BL:344:TRP:CD1	2.54	0.43
45:BL:238:CYS:O	45:BL:241:ARG:HG2	2.19	0.43
45:BL:274:THR:O	45:BL:274:THR:HG23	2.18	0.43
45:BN:170:VAL:HG13	45:BN:203:ASP:OD1	2.18	0.43
45:BN:178:THR:O	45:BN:181:GLU:CD	2.57	0.43
45:CB:273:LEU:HB2	45:CB:292:GLN:NE2	2.34	0.43
45:CB:286:VAL:HG11	45:CB:325:GLU:O	2.18	0.43
44:CC:215:ARG:CZ	44:CC:299:ALA:HB1	2.49	0.43
44:CC:348:PRO:HD3	45:CD:388:MET:CE	2.48	0.43
44:CE:3:GLU:HG3	44:CE:50:ASN:O	2.18	0.43
45:CF:46:ARG:HD3	45:CF:46:ARG:HA	1.77	0.43
45:CF:360:GLY:O	45:CF:362:LYS:HE2	2.18	0.43
45:CF:382:ALA:HB2	45:CF:415:MET:SD	2.58	0.43
44:CG:23:LEU:CD2	44:CG:236:SER:HB3	2.48	0.43
44:CG:80:THR:HA	44:CG:84:ARG:NH1	2.29	0.43
45:CH:33:THR:HG23	45:CH:35:THR:N	2.30	0.43
44:CI:69:ASP:HB3	44:CI:75:ILE:HG12	2.00	0.43
44:CI:91:GLN:CG	44:CI:92:LEU:HD12	2.40	0.43
44:CI:132:LEU:C	44:CI:164:LYS:HZ1	2.19	0.43
45:CJ:60:VAL:HG11	45:CJ:86:ARG:CZ	2.48	0.43
45:CJ:206:ALA:CB	45:CJ:300:MET:HA	2.47	0.43
45:CJ:257:LEU:HD11	45:CJ:314:SER:HB3	2.00	0.43
44:CK:262:TYR:CZ	45:CL:393:ALA:HB2	2.52	0.43
45:CL:8:GLN:OE1	45:CL:65:LEU:HG	2.19	0.43
45:CL:139:LEU:HD23	45:CL:188:SER:OG	2.19	0.43
45:CL:314:SER:HA	45:CL:350:LYS:HG2	2.00	0.43
44:CM:88:HIS:HE1	44:CM:90:GLU:HG2	1.78	0.43
44:CM:174:SER:OG	44:CM:207:GLU:HB2	2.18	0.43
44:CM:288:VAL:HG11	44:CM:327:ASP:HB3	2.00	0.43
45:CN:257:LEU:HD23	45:CN:312:THR:OG1	2.18	0.43
44:DA:14:ILE:HD13	44:DA:74:VAL:CB	2.43	0.43
44:DA:102:ASN:C	44:DA:144:GLY:HA3	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:203:MET:HB2	44:DA:303:ALA:CB	2.48	0.43
44:DA:401:LYS:HE3	44:DA:401:LYS:HB2	1.72	0.43
45:DB:326:VAL:HG12	45:DB:330:MET:HE1	2.01	0.43
45:DB:384:GLN:O	45:DB:388:MET:HE2	2.19	0.43
44:DC:1:MET:CE	45:DD:94:GLN:HG3	2.49	0.43
44:DC:429:GLU:O	44:DC:432:TYR:HB2	2.17	0.43
44:DE:3:GLU:OE2	44:DE:129:CYS:HB3	2.17	0.43
44:DE:75:ILE:O	44:DE:75:ILE:HG22	2.18	0.43
44:DG:37:PRO:O	44:DG:38:SER:HB3	2.18	0.43
44:DG:88:HIS:O	44:DG:91:GLN:HG2	2.18	0.43
44:DG:210:TYR:HE1	44:DG:227:LEU:HD11	1.79	0.43
45:DH:313:ALA:HB2	45:DH:369:GLY:HA2	1.99	0.43
45:DH:314:SER:OG	45:DH:350:LYS:HG3	2.19	0.43
45:DH:351:SER:OG	44:DI:179:THR:HG23	2.18	0.43
45:DH:404:ASP:OD1	45:DH:406:MET:HB2	2.17	0.43
44:DI:5:ILE:HD12	44:DI:135:PHE:CZ	2.54	0.43
44:DI:141:VAL:CG1	44:DI:172:TYR:HA	2.49	0.43
44:DI:215:ARG:NH2	44:DI:300:ASN:HA	2.33	0.43
44:DI:343:PHE:HB3	44:DI:344:VAL:H	1.63	0.43
44:DK:272:TYR:HD2	44:DK:275:ILE:HD11	1.82	0.43
44:DK:320:ARG:HG2	44:DK:374:ALA:O	2.18	0.43
44:DM:31:GLN:NE2	44:DM:35:GLN:H	2.12	0.43
45:DN:305:PRO:CB	45:DN:310:TYR:HE1	2.22	0.43
45:DN:342:VAL:HG13	45:DN:345:ILE:HG22	2.01	0.43
44:EA:31:GLN:HB2	44:EA:35:GLN:O	2.17	0.43
44:EA:176:GLN:NE2	44:EA:207:GLU:OE2	2.49	0.43
45:EB:169:VAL:CG1	45:EB:204:ASN:H	2.32	0.43
44:EC:4:VAL:HG11	44:EC:252:ILE:CD1	2.49	0.43
45:ED:252:LYS:O	45:ED:256:ASN:HB2	2.18	0.43
44:EE:93:ILE:HD11	44:EE:121:ARG:HG3	2.01	0.43
45:EF:183:TYR:HD2	45:EF:398:TYR:CE2	2.37	0.43
44:EG:54:SER:HB3	44:EG:64:ARG:CZ	2.49	0.43
45:EH:50:TYR:OH	45:EH:134:GLN:OE1	2.29	0.43
45:EH:95:THR:HG21	45:EH:108:GLU:OE1	2.18	0.43
45:EJ:268:ILE:HG13	45:EJ:300:MET:HE1	1.99	0.43
45:EJ:270:PHE:HE2	45:EJ:273:LEU:HD21	1.83	0.43
44:EK:88:HIS:HE1	44:EK:90:GLU:HG2	1.83	0.43
44:EK:172:TYR:HE2	44:EK:203:MET:SD	2.41	0.43
44:EK:265:ILE:HG22	44:EK:380:ASN:HD21	1.83	0.43
44:EK:413:MET:HA	44:EK:413:MET:CE	2.48	0.43
44:FA:25:CYS:O	44:FA:28:HIS:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:71:GLU:CD	44:FA:72:PRO:HD2	2.37	0.43
44:FA:348:PRO:HD3	45:FD:388:MET:SD	2.58	0.43
45:FB:23:VAL:HG11	45:FB:230:SER:HB3	2.01	0.43
44:FC:7:ILE:HD11	44:FC:122:ILE:HG12	2.00	0.43
44:FC:322:ASP:OD1	44:FC:372:MET:HE2	2.18	0.43
45:FD:35:THR:HG23	45:FD:37:HIS:CE1	2.54	0.43
45:FF:310:TYR:HA	45:FF:371:SER:HA	2.00	0.43
44:FG:428:LEU:HD12	44:FG:428:LEU:O	2.19	0.43
44:FI:172:TYR:HB3	44:FI:173:PRO:HD2	2.00	0.43
44:FI:195:LEU:HD21	44:FI:264:ARG:NH2	2.34	0.43
44:FI:322:ASP:OD2	44:FI:373:ARG:NH1	2.47	0.43
45:FJ:213:ARG:HG2	45:FJ:213:ARG:HH11	1.83	0.43
44:FK:276:ILE:O	44:FK:369:ALA:HB3	2.19	0.43
44:FK:290:GLU:HG3	44:FK:291:ILE:N	2.34	0.43
44:FK:422:ARG:NH1	44:FK:426:ALA:HB2	2.32	0.43
44:FM:398:MET:HE1	44:FM:404:PHE:HD2	1.84	0.43
45:FN:135:ILE:HG21	45:FN:152:ILE:HD11	2.00	0.43
45:FN:391:ARG:HA	45:FN:391:ARG:HD2	1.82	0.43
45:GB:60:VAL:HG21	45:GB:86:ARG:CD	2.49	0.43
45:GB:113:ILE:HA	45:GB:116:VAL:CG1	2.47	0.43
45:GB:190:HIS:ND1	45:GB:411:ALA:HA	2.33	0.43
45:GB:201:VAL:HG23	45:GB:201:VAL:O	2.19	0.43
45:GB:290:THR:HG21	45:GB:329:GLN:CG	2.48	0.43
45:GB:377:MET:HA	45:GB:380:ARG:CG	2.48	0.43
44:GC:88:HIS:HB3	44:GC:91:GLN:CG	2.49	0.43
45:GD:1:MET:CE	45:GD:1:MET:N	2.80	0.43
44:GE:164:LYS:HA	44:GE:164:LYS:HD2	1.86	0.43
45:GF:113:ILE:HA	45:GF:116:VAL:HG12	2.01	0.43
45:GF:139:LEU:HD12	45:GF:139:LEU:H	1.82	0.43
45:GF:241:ARG:C	45:GF:242:PHE:HD2	2.22	0.43
45:GF:264:HIS:O	45:GF:264:HIS:ND1	2.50	0.43
45:GH:23:VAL:HG13	45:GH:24:ILE:N	2.33	0.43
44:GI:175:PRO:HB3	44:GI:390:ARG:NH2	2.34	0.43
44:GI:224:TYR:CG	45:GJ:323:THR:HG21	2.53	0.43
44:GI:321:GLY:O	44:GI:357:TYR:HA	2.18	0.43
44:GK:181:VAL:HG22	45:GL:256:ASN:CB	2.46	0.43
44:GK:289:ALA:CA	44:GK:292:THR:HG22	2.47	0.43
45:GL:208:TYR:HE1	45:GL:225:LEU:HD11	1.82	0.43
44:GM:31:GLN:HB3	44:GM:32:PRO:CD	2.48	0.43
44:GM:100:ALA:HA	45:GN:252:LYS:CE	2.49	0.43
44:GM:100:ALA:CB	45:GN:252:LYS:HB2	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:185:TYR:HE2	44:GM:404:PHE:HB2	1.83	0.43
44:HA:183:GLU:CG	44:HA:184:PRO:HD3	2.45	0.43
45:HB:68:LEU:CD2	45:HB:97:ALA:HB2	2.48	0.43
45:HB:191:GLN:NE2	45:HB:194:GLU:OE1	2.51	0.43
45:HB:306:ARG:HB2	45:HB:340:TYR:CE1	2.52	0.43
45:HB:315:ALA:O	45:HB:316:LEU:HD12	2.18	0.43
45:HB:317:PHE:CE1	45:HB:326:VAL:HG22	2.53	0.43
44:HC:7:ILE:HD12	44:HC:122:ILE:HD11	2.01	0.43
44:HC:145:THR:HG22	46:HC:501:GTP:PB	2.57	0.43
44:HC:254:GLU:OE2	45:HF:98:GLY:HA2	2.19	0.43
45:HD:130:LEU:HG	45:HD:162:ARG:HD2	2.01	0.43
44:HE:210:TYR:CD1	44:HE:227:LEU:HD21	2.54	0.43
44:HE:268:MET:HG3	44:HE:378:ILE:HG22	2.00	0.43
44:HE:332:ILE:HG23	44:HE:351:PHE:HE2	1.79	0.43
45:HF:139:LEU:HD12	45:HF:188:SER:CB	2.47	0.43
44:HG:99:ALA:HB3	44:HG:145:THR:HB	2.00	0.43
44:HG:141:VAL:HG13	44:HG:190:SER:HB3	2.01	0.43
45:HH:1:MET:C	45:HH:2:ARG:HG2	2.38	0.43
44:HI:60:LYS:O	44:HI:61:HIS:ND1	2.52	0.43
44:HI:392:ASP:CG	44:HI:425:LEU:HD13	2.39	0.43
45:HJ:51:TYR:HE1	45:HJ:61:PRO:HD3	1.83	0.43
45:HJ:304:ASP:OD1	45:HJ:305:PRO:HD2	2.19	0.43
45:HL:198:GLU:HG2	45:HL:266:PHE:HE2	1.83	0.43
45:HL:215:LEU:HD21	45:HL:273:LEU:HB3	2.00	0.43
45:HL:268:ILE:HA	45:HL:367:PHE:O	2.18	0.43
45:HL:404:ASP:HB2	45:HL:406:MET:HE1	1.99	0.43
44:HM:137:VAL:O	44:HM:137:VAL:HG13	2.18	0.43
44:HM:222:PRO:HG2	45:HN:324:LYS:HD3	2.01	0.43
44:HM:390:ARG:HG3	44:HM:391:LEU:HD12	1.99	0.43
45:HN:313:ALA:HB1	45:HN:368:VAL:O	2.19	0.43
44:IA:141:VAL:HG13	44:IA:187:SER:OG	2.19	0.43
44:IA:312:TYR:CE2	44:IA:341:ILE:HG23	2.52	0.43
45:IB:12:CYS:O	45:IB:15:GLN:N	2.52	0.43
45:IB:49:VAL:HG12	45:IB:50:TYR:CD1	2.54	0.43
45:IB:214:THR:O	45:IB:275:SER:HB3	2.17	0.43
44:IC:408:TYR:O	44:IC:413:MET:HB2	2.18	0.43
45:ID:6:HIS:O	45:ID:64:ILE:N	2.40	0.43
45:ID:152:ILE:HD12	45:ID:164:MET:SD	2.58	0.43
45:ID:205:GLU:O	45:ID:208:TYR:HB2	2.18	0.43
44:IE:4:VAL:HG13	44:IE:134:GLY:O	2.17	0.43
45:IF:221:THR:HG23	45:IF:223:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:313:MET:HE3	44:IG:380:ASN:O	2.19	0.43
45:IH:361:LEU:HD23	45:IH:362:LYS:H	1.79	0.43
45:IH:403:MET:HA	45:IH:407:GLU:OE2	2.17	0.43
44:II:286:LEU:N	44:II:290:GLU:OE2	2.52	0.43
44:II:344:VAL:HG12	44:II:345:ASP:N	2.34	0.43
44:IK:425:LEU:HD23	44:IK:425:LEU:HA	1.89	0.43
44:IM:188:ILE:O	44:IM:191:THR:HB	2.18	0.43
44:IM:246:GLY:HA2	44:IM:357:TYR:CE2	2.53	0.43
44:IM:392:ASP:O	44:IM:396:ASP:N	2.47	0.43
45:IN:97:ALA:HB3	45:IN:143:THR:CB	2.46	0.43
44:JA:189:LEU:O	44:JA:192:HIS:HB3	2.18	0.43
44:JA:265:ILE:HG23	44:JA:432:TYR:OH	2.18	0.43
44:JA:308:ARG:HE	44:JA:308:ARG:HB2	1.58	0.43
44:JC:212:ILE:HD12	44:JC:300:ASN:HA	2.00	0.43
44:JC:291:ILE:HG13	44:JC:292:THR:N	2.32	0.43
45:JD:257:LEU:HA	45:JD:312:THR:CG2	2.47	0.43
44:JE:177:VAL:CG2	45:JF:331:LEU:HD22	2.45	0.43
45:JF:32:PRO:HG3	45:JF:81:PHE:CE1	2.54	0.43
45:JH:3:GLU:CD	45:JH:3:GLU:H	2.22	0.43
45:JH:95:THR:HG21	45:JH:108:GLU:HG2	2.01	0.43
45:JH:207:LEU:CG	45:JH:300:MET:HE1	2.43	0.43
44:JI:66:VAL:HG23	44:JI:66:VAL:O	2.19	0.43
44:JI:344:VAL:HG11	44:JI:346:TRP:CE2	2.53	0.43
45:JJ:325:GLU:HA	45:JJ:328:GLU:CD	2.39	0.43
44:JK:272:TYR:O	44:JK:275:ILE:HD11	2.18	0.43
45:JL:187:LEU:HD21	45:JL:408:PHE:CD1	2.53	0.43
45:JL:285:THR:HA	45:JL:363:MET:HE1	2.00	0.43
44:JM:204:LEU:HD23	44:JM:302:MET:CE	2.49	0.43
44:JM:269:LEU:HG	44:JM:301:MET:HE1	1.99	0.43
44:JM:425:LEU:O	44:JM:429:GLU:HG3	2.19	0.43
45:JN:202:ILE:HD12	45:JN:300:MET:HB3	2.01	0.43
44:KA:318:MET:HE1	44:KA:378:ILE:HG22	1.99	0.43
44:KC:168:GLY:N	44:KC:200:VAL:O	2.46	0.43
44:KC:210:TYR:HE1	44:KC:227:LEU:HD21	1.82	0.43
45:KD:238:CYS:SG	45:KD:239:CYS:N	2.92	0.43
44:KE:3:GLU:HG2	44:KE:64:ARG:NH2	2.18	0.43
44:KE:62:VAL:HG11	44:LE:283:HIS:HB3	2.00	0.43
45:KF:170:VAL:HG13	45:KF:170:VAL:O	2.17	0.43
44:KG:288:VAL:HA	44:KG:291:ILE:CD1	2.48	0.43
45:KH:72:THR:HG23	45:KH:73:MET:N	2.33	0.43
45:KH:254:ALA:HA	45:KH:258:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:122:ILE:HG22	44:KI:161:TYR:OH	2.18	0.43
45:KJ:341:PHE:HB3	45:KJ:348:ASN:ND2	2.33	0.43
44:KM:141:VAL:HG21	44:KM:172:TYR:CD1	2.54	0.43
45:KN:227:HIS:HA	45:KN:230:SER:OG	2.18	0.43
44:LA:356:ASN:OD1	44:LA:357:TYR:N	2.42	0.43
45:LB:107:THR:HG23	45:LB:108:GLU:H	1.84	0.43
44:LC:102:ASN:CG	44:LC:105:ARG:HG3	2.39	0.43
44:LC:261:PRO:HB3	44:LC:346:TRP:HH2	1.83	0.43
44:LE:97:GLU:OE1	45:LF:131:GLN:NE2	2.42	0.43
44:LE:137:VAL:HG23	44:LE:168:GLY:HA2	2.00	0.43
44:LE:247:ALA:HB3	44:LE:355:ILE:HG13	2.00	0.43
45:LF:36:TYR:CE1	45:LF:44:LEU:HD11	2.53	0.43
45:LF:152:ILE:CD1	45:LF:164:MET:CE	2.96	0.43
45:LF:263:LEU:HD23	45:LF:422:TYR:CE1	2.54	0.43
44:LG:217:LEU:HA	44:LG:277:SER:HB3	2.00	0.43
45:LH:285:THR:C	45:LH:287:PRO:HD2	2.39	0.43
44:LI:223:THR:HG22	44:LI:224:TYR:N	2.33	0.43
45:LJ:310:TYR:CD1	45:LJ:371:SER:HB3	2.53	0.43
44:LM:181:VAL:HG22	45:LN:256:ASN:CB	2.48	0.43
45:LN:285:THR:C	45:LN:287:PRO:HD2	2.38	0.43
44:MA:393:HIS:O	44:MA:396:ASP:N	2.51	0.43
45:MB:6:HIS:NE2	45:MB:8:GLN:HB3	2.33	0.43
45:MB:46:ARG:HA	45:MB:46:ARG:HD2	1.86	0.43
45:MB:200:MET:CE	45:MB:368:VAL:HG13	2.48	0.43
45:MB:257:LEU:HA	45:MB:312:THR:HG21	2.01	0.43
45:MB:267:MET:HE1	45:MB:305:PRO:HB3	1.98	0.43
44:MC:77:GLU:CD	45:MD:243:PRO:HB3	2.39	0.43
44:MC:182:VAL:O	44:MC:182:VAL:CG1	2.66	0.43
44:MC:184:PRO:HG2	44:MC:398:MET:CE	2.47	0.43
44:MC:203:MET:CE	44:MC:205:ASP:HB3	2.42	0.43
44:ME:54:SER:HB3	44:ME:64:ARG:CZ	2.48	0.43
44:MG:257:THR:OG1	45:MJ:99:ASN:OD1	2.33	0.43
44:MG:265:ILE:HG22	44:MG:380:ASN:HD21	1.82	0.43
44:MG:311:LYS:N	44:MG:382:THR:HG1	2.14	0.43
45:MH:6:HIS:CD2	45:MH:8:GLN:HG2	2.54	0.43
45:MJ:68:LEU:CD2	45:MJ:97:ALA:HB2	2.40	0.43
45:ML:3:GLU:OE2	45:ML:127:CYS:HB2	2.18	0.43
45:ML:91:VAL:HG11	45:ML:116:VAL:HG22	2.00	0.43
44:MM:88:HIS:ND1	44:MM:90:GLU:HG2	2.33	0.43
44:MM:377:MET:O	44:MM:378:ILE:HD13	2.19	0.43
44:NA:100:ALA:HA	45:NB:252:LYS:CD	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NC:236:SER:HA	44:NC:239:THR:CG2	2.49	0.43
45:ND:133:PHE:CZ	45:ND:159:TYR:HE2	2.36	0.43
45:ND:316:LEU:HD23	45:ND:352:SER:CB	2.42	0.43
45:ND:327:ASP:O	45:ND:330:MET:HB2	2.18	0.43
45:NF:27:GLU:CD	45:NF:241:ARG:HH12	2.22	0.43
44:NG:75:ILE:HD12	44:NG:75:ILE:H	1.83	0.43
44:NG:88:HIS:HD2	44:OG:283:HIS:O	2.01	0.43
44:NG:229:ARG:HD2	44:NG:363:VAL:HG21	2.01	0.43
44:NG:247:ALA:HB2	44:NG:357:TYR:OH	2.19	0.43
45:NH:22:GLU:HG2	45:NH:81:PHE:CD1	2.54	0.43
45:NH:67:ASP:HB3	45:NH:73:MET:CE	2.49	0.43
45:NH:150:LEU:HD21	45:NH:154:LYS:HE3	2.00	0.43
45:NH:222:TYR:CD1	48:NH:501:GDP:C6	3.06	0.43
44:NI:55:GLU:HG3	44:NI:57:GLY:N	2.28	0.43
44:NI:387:VAL:O	44:NI:391:LEU:HG	2.18	0.43
45:NJ:65:LEU:HD11	45:NJ:85:PHE:CE2	2.54	0.43
44:NK:2:ARG:HD2	44:NK:242:LEU:O	2.19	0.43
44:NK:221:ARG:NH1	45:NL:322:SER:H	2.15	0.43
44:NK:383:ALA:O	44:NK:386:GLU:HG2	2.18	0.43
45:NL:156:ARG:NE	45:NL:195:ASN:O	2.52	0.43
44:NM:332:ILE:CA	44:NM:335:ILE:HG12	2.46	0.43
44:OA:319:TYR:CE1	44:OA:375:VAL:HG21	2.53	0.43
44:OC:3:GLU:HG3	44:OC:131:GLY:C	2.38	0.43
44:OC:199:ASP:O	44:OC:266:HIS:HB2	2.19	0.43
45:OD:237:THR:CG2	45:OD:250:LEU:HD11	2.24	0.43
45:OF:36:TYR:CE1	45:OF:44:LEU:HD21	2.53	0.43
45:OF:132:GLY:HA2	45:OF:163:ILE:O	2.18	0.43
45:OF:133:PHE:HD2	45:OF:155:VAL:HG11	1.83	0.43
44:OI:102:ASN:OD1	44:OI:104:ALA:HB3	2.19	0.43
44:OI:356:ASN:O	44:OI:357:TYR:HD1	2.02	0.43
44:OI:414:GLU:OE1	44:OI:416:GLY:N	2.51	0.43
45:OJ:7:ILE:HD13	45:OJ:120:VAL:HG21	2.01	0.43
45:OJ:178:THR:HG22	45:OJ:180:VAL:H	1.83	0.43
45:OJ:303:ALA:O	45:OJ:305:PRO:HD2	2.18	0.43
45:OL:404:ASP:OD1	45:OL:404:ASP:N	2.45	0.43
44:OM:104:ALA:HB3	44:OM:411:GLU:HB3	2.00	0.43
44:OM:231:ILE:HG22	44:OM:235:ILE:HD11	2.00	0.43
45:ON:169:VAL:HA	45:ON:202:ILE:O	2.18	0.43
45:ON:289:LEU:CD2	45:ON:363:MET:HB3	2.46	0.43
44:PA:63:PRO:HB2	44:PA:87:PHE:HE1	1.82	0.43
44:PA:185:TYR:CZ	44:PA:398:MET:HE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PB:234:SER:HA	45:PB:237:THR:CG2	2.49	0.43
45:PB:322:SER:O	45:PB:326:VAL:HG23	2.18	0.43
44:PC:154:LEU:HD22	44:PC:166:LYS:HZ1	1.82	0.43
44:PC:221:ARG:HH21	45:PD:322:SER:HG	1.64	0.43
44:PE:8:HIS:HB2	44:PE:66:VAL:O	2.18	0.43
45:PF:170:VAL:HG13	45:PF:201:VAL:HG21	2.00	0.43
45:PF:376:GLU:HA	45:PF:379:LYS:NZ	2.34	0.43
44:PG:325:PRO:HG3	45:PJ:222:TYR:CD2	2.52	0.43
45:PH:52:ASN:HD21	45:PH:62:ARG:HE	1.66	0.43
45:PH:156:ARG:NH1	45:PH:162:ARG:O	2.42	0.43
45:PH:326:VAL:O	45:PH:330:MET:CB	2.66	0.43
45:PH:378:PHE:HA	45:PH:381:VAL:CG1	2.47	0.43
44:PI:9:VAL:HG13	44:PI:139:ASN:HB3	1.99	0.43
44:PI:251:ASP:OD2	44:PI:253:THR:HG22	2.18	0.43
44:PI:276:ILE:HD12	44:PI:276:ILE:N	2.33	0.43
45:PJ:173:PRO:HG2	45:PJ:380:ARG:HD3	1.99	0.43
44:PK:73:THR:HG1	45:PL:247:ASN:HD22	1.59	0.43
44:PK:183:GLU:N	44:PK:184:PRO:CD	2.80	0.43
44:PK:221:ARG:NH2	45:PL:322:SER:O	2.52	0.43
44:PK:363:VAL:HG13	44:PK:363:VAL:O	2.18	0.43
45:PL:52:ASN:OD1	45:PL:62:ARG:NH2	2.51	0.43
44:PM:269:LEU:HD23	44:PM:269:LEU:H	1.84	0.43
45:QB:101:TRP:CE3	45:QB:187:LEU:HD13	2.54	0.43
45:QB:116:VAL:HA	45:QB:119:VAL:HG12	1.99	0.43
45:QB:136:THR:CG2	45:QB:167:PHE:HD2	2.32	0.43
45:QB:167:PHE:CE2	45:QB:233:MET:HG3	2.53	0.43
45:QB:267:MET:HB2	45:QB:301:CYS:SG	2.59	0.43
45:QD:135:ILE:HB	45:QD:166:THR:HG22	2.00	0.43
44:QE:191:THR:O	44:QE:194:LEU:N	2.52	0.43
44:QE:370:LYS:O	44:QE:370:LYS:HG3	2.18	0.43
45:QF:101:TRP:HD1	45:QF:145:SER:OG	2.02	0.43
45:QF:266:PHE:HB3	45:QF:368:VAL:HG23	2.01	0.43
45:QF:315:ALA:C	45:QF:316:LEU:HD12	2.38	0.43
45:QF:325:GLU:CA	45:QF:328:GLU:HG2	2.48	0.43
44:QG:19:ALA:O	44:QG:22:GLU:N	2.51	0.43
44:QG:185:TYR:O	44:QG:188:ILE:HB	2.18	0.43
45:QH:401:GLU:HA	45:QH:401:GLU:OE1	2.17	0.43
44:QI:176:GLN:HG2	44:QI:177:VAL:HG23	1.99	0.43
45:QJ:202:ILE:HD13	45:QJ:229:VAL:HG13	2.01	0.43
44:QK:97:GLU:HG3	44:QK:98:ASP:N	2.34	0.43
45:QL:164:MET:H	45:QL:197:ASP:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:222:TYR:HE2	48:QL:501:GDP:C5	2.36	0.43
45:QL:246:LEU:HD13	45:QL:353:ILE:CD1	2.40	0.43
45:QN:401:GLU:HB2	45:QN:403:MET:CE	2.48	0.43
44:RA:33:ASP:HB3	44:RA:35:GLN:NE2	2.31	0.43
44:RA:316:SER:O	44:RA:377:MET:HA	2.18	0.43
44:RA:317:MET:HA	44:RA:376:CYS:O	2.19	0.43
45:RB:178:THR:HG21	45:RB:180:VAL:HG12	1.99	0.43
45:RB:251:ARG:O	45:RB:255:VAL:N	2.52	0.43
45:RB:313:ALA:O	45:RB:350:LYS:N	2.42	0.43
44:RE:239:THR:O	44:RE:242:LEU:HB2	2.18	0.43
46:RE:501:GTP:H8	46:RE:501:GTP:O1A	2.01	0.43
45:RF:211:CYS:CB	45:RF:217:LEU:HD21	2.49	0.43
45:RF:398:TYR:HB3	45:RF:403:MET:CE	2.48	0.43
45:RH:19:LYS:O	45:RH:22:GLU:N	2.51	0.43
45:RH:28:HIS:C	45:RH:43:GLN:HE21	2.21	0.43
45:RH:101:TRP:CE3	45:RH:187:LEU:HD13	2.53	0.43
45:RH:257:LEU:HA	45:RH:312:THR:HG23	1.99	0.43
44:RI:232:ALA:HA	44:RI:235:ILE:HG12	1.99	0.43
44:RI:276:ILE:HG23	44:RI:281:ALA:HB2	2.00	0.43
44:RI:326:LYS:HD3	45:RJ:212:PHE:CE1	2.54	0.43
45:RJ:285:THR:HG22	45:RJ:288:GLU:HB2	1.99	0.43
44:RK:6:SER:HG	44:RK:65:ALA:HA	1.82	0.43
44:RK:6:SER:C	44:RK:7:ILE:HD13	2.38	0.43
44:RK:82:THR:HG23	44:RK:83:TYR:CE1	2.54	0.43
45:RL:282:ARG:NH2	45:RL:292:GLN:OE1	2.45	0.43
45:RL:375:GLN:OE1	45:RL:423:GLN:HB3	2.19	0.43
44:RM:91:GLN:O	44:RM:93:ILE:HD12	2.18	0.43
44:RM:221:ARG:O	44:RM:221:ARG:HG3	2.19	0.43
44:SA:103:PHE:HB2	44:SA:186:ASN:HB2	1.99	0.43
44:SA:183:GLU:HG2	44:SA:184:PRO:N	2.33	0.43
44:SA:276:ILE:HG23	44:SA:281:ALA:CB	2.48	0.43
45:SB:25:SER:O	45:SB:28:HIS:CD2	2.72	0.43
45:SB:190:HIS:O	45:SB:193:VAL:HG12	2.19	0.43
45:SB:259:PRO:HA	44:SC:404:PHE:CE1	2.53	0.43
44:SC:1:MET:CE	45:SD:94:GLN:HG2	2.47	0.43
44:SC:206:ASN:HA	44:SC:209:ILE:CG1	2.48	0.43
44:SC:315:CYS:HA	44:SC:378:ILE:O	2.18	0.43
45:SD:7:ILE:HG22	45:SD:135:ILE:CD1	2.49	0.43
45:SD:101:TRP:CZ3	45:SD:187:LEU:HB3	2.54	0.43
45:SD:228:LEU:HD23	45:SD:228:LEU:HA	1.89	0.43
44:SE:231:ILE:HG22	44:SE:235:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SE:268:MET:HE1	44:SE:378:ILE:HG22	1.97	0.43
44:SE:319:TYR:CZ	44:SE:328:VAL:HG22	2.53	0.43
45:SF:107:THR:OG1	45:SF:108:GLU:N	2.52	0.43
45:SF:254:ALA:O	44:SG:407:TRP:HH2	2.01	0.43
44:SG:319:TYR:CE1	44:SG:375:VAL:HG21	2.54	0.43
44:SG:320:ARG:CG	44:SG:360:PRO:HG3	2.49	0.43
44:SG:362:VAL:O	44:SG:362:VAL:HG23	2.19	0.43
44:SG:428:LEU:HG	44:SG:432:TYR:CE2	2.51	0.43
45:SH:184:ASN:HA	45:SH:187:LEU:HD12	2.01	0.43
44:SI:14:ILE:HD13	44:SI:74:VAL:CG2	2.49	0.43
44:SI:60:LYS:NZ	44:SI:85:GLN:HE21	2.17	0.43
44:SI:212:ILE:CD1	44:SI:300:ASN:HA	2.48	0.43
45:SJ:62:ARG:HH12	45:SJ:127:CYS:CB	2.29	0.43
45:SJ:257:LEU:CD1	45:SJ:258:ILE:HD12	2.47	0.43
44:SK:123:ARG:HA	44:SK:126:ALA:HB3	2.00	0.43
44:SK:141:VAL:HG11	44:SK:172:TYR:HA	2.00	0.43
44:SK:174:SER:OG	44:SK:207:GLU:HB2	2.19	0.43
44:SK:184:PRO:HG2	44:SK:398:MET:HE1	2.00	0.43
45:SL:143:THR:HG23	45:SL:144:GLY:N	2.33	0.43
45:SL:248:SER:HB2	45:SL:352:SER:OG	2.19	0.43
44:SM:26:LEU:HD21	44:SM:363:VAL:HA	2.01	0.43
44:SM:316:SER:O	44:SM:377:MET:HA	2.18	0.43
44:SM:346:TRP:CE3	44:SM:347:CYS:HB2	2.53	0.43
45:SN:173:PRO:HG3	45:SN:384:GLN:NE2	2.34	0.43
45:SN:178:THR:HG22	45:SN:180:VAL:HG12	2.01	0.43
45:TB:271:ALA:O	45:TB:365:VAL:N	2.28	0.43
44:TC:141:VAL:CG1	44:TC:172:TYR:HD1	2.30	0.43
44:TC:172:TYR:O	44:TC:205:ASP:HA	2.18	0.43
44:TC:307:PRO:HA	44:TC:383:ALA:HB3	2.01	0.43
45:TD:102:ALA:CB	45:TD:398:TYR:HA	2.48	0.43
45:TD:350:LYS:HZ3	44:TE:180:ALA:HB2	1.83	0.43
44:TE:20:CYS:HA	44:TE:232:ALA:HB1	2.00	0.43
44:TE:68:LEU:HD22	44:TE:153:LEU:HD11	1.99	0.43
44:TE:87:PHE:HB3	44:TE:91:GLN:HE21	1.84	0.43
44:TE:151:SER:O	44:TE:155:GLU:HG3	2.18	0.43
44:TE:177:VAL:CG1	44:TE:207:GLU:HB2	2.49	0.43
44:TE:236:SER:O	44:TE:240:ALA:N	2.51	0.43
45:TF:318:ARG:O	45:TF:363:MET:HE3	2.19	0.43
44:TG:70:LEU:HD13	44:TG:99:ALA:H	1.83	0.43
44:TG:76:ASP:O	44:TG:80:THR:HG23	2.18	0.43
44:TG:231:ILE:HD12	44:TG:231:ILE:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:437:ILE:HG13	44:TG:437:ILE:O	2.18	0.43
44:TI:107:HIS:HB3	44:TI:108:TYR:CD2	2.53	0.43
45:TJ:105:HIS:HD1	45:TJ:106:TYR:HD1	1.65	0.43
45:TJ:342:VAL:HG13	45:TJ:345:ILE:HG22	2.00	0.43
44:TK:204:LEU:CD2	44:TK:302:MET:HE3	2.47	0.43
44:TK:288:VAL:HA	44:TK:291:ILE:CD1	2.49	0.43
45:TL:113:ILE:CA	45:TL:116:VAL:HG12	2.47	0.43
45:TL:136:THR:HA	45:TL:167:PHE:HB2	2.00	0.43
44:TM:276:ILE:HD11	44:TM:280:LYS:HG3	2.00	0.43
45:TN:309:ARG:HB3	45:TN:341:PHE:C	2.39	0.43
44:UA:274:PRO:HG3	44:UA:291:ILE:CG2	2.32	0.43
45:UB:256:ASN:C	45:UB:257:LEU:HD12	2.38	0.43
44:UC:54:SER:HG	44:UC:62:VAL:HB	1.84	0.43
44:UC:261:PRO:HA	45:UD:394:PHE:CZ	2.53	0.43
45:UD:19:LYS:HG2	45:UD:227:HIS:HA	2.00	0.43
45:UD:351:SER:H	44:UE:179:THR:CG2	2.32	0.43
45:UF:136:THR:HA	45:UF:167:PHE:O	2.18	0.43
45:UF:174:LYS:HZ1	45:UF:175:VAL:HG21	1.83	0.43
45:UH:5:VAL:HB	45:UH:62:ARG:O	2.19	0.43
45:UH:207:LEU:HB3	45:UH:225:LEU:CD1	2.48	0.43
45:UH:267:MET:O	45:UH:368:VAL:HA	2.18	0.43
44:UI:257:THR:HG22	45:UJ:397:TRP:HZ3	1.77	0.43
44:UI:261:PRO:HB2	44:UI:262:TYR:CD2	2.54	0.43
45:UJ:251:ARG:C	45:UJ:255:VAL:HG23	2.39	0.43
44:UK:296:PHE:HD2	44:UK:335:ILE:HD12	1.83	0.43
44:UK:387:VAL:CA	44:UK:390:ARG:HG2	2.49	0.43
44:UK:390:ARG:HG3	44:UK:391:LEU:HD12	1.99	0.43
45:UL:211:CYS:O	45:UL:216:LYS:N	2.49	0.43
45:UL:332:ASN:HD21	45:UL:336:LYS:HZ1	1.65	0.43
45:UN:9:GLY:HA3	45:UN:147:MET:HE3	2.00	0.43
44:VA:312:TYR:H	44:VA:343:PHE:HA	1.83	0.43
44:VA:318:MET:CB	44:VA:354:GLY:HA3	2.48	0.43
45:VB:180:VAL:HG23	45:VB:183:TYR:CD2	2.54	0.43
44:VC:21:TRP:HZ2	44:VC:65:ALA:HB2	1.84	0.43
44:VC:102:ASN:HD22	44:VC:105:ARG:HG3	1.81	0.43
44:VC:150:GLY:O	44:VC:154:LEU:HG	2.19	0.43
45:VD:109:GLY:HA3	45:VD:147:MET:HE3	1.99	0.43
45:VD:265:PHE:HD2	45:VD:378:PHE:CE2	2.36	0.43
44:VE:180:ALA:HB3	44:VE:183:GLU:HB3	2.01	0.43
44:VE:209:ILE:HD12	44:VE:227:LEU:HB3	2.01	0.43
44:VE:259:LEU:HB3	44:VE:268:MET:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VE:332:ILE:CD1	44:VE:353:VAL:HG11	2.49	0.43
44:VE:394:LYS:NZ	45:VF:347:ASN:OD1	2.40	0.43
45:VF:200:MET:O	45:VF:200:MET:HG2	2.17	0.43
44:VG:177:VAL:HG13	45:VH:327:ASP:HB3	2.00	0.43
44:VG:208:ALA:HB2	44:VG:304:LYS:HG2	1.99	0.43
44:VI:55:GLU:HG3	44:VI:57:GLY:H	1.82	0.43
44:VI:71:GLU:CD	44:VI:73:THR:H	2.21	0.43
45:VJ:100:ASN:HB3	45:VJ:103:LYS:CB	2.49	0.43
45:VJ:134:GLN:O	45:VJ:135:ILE:HD13	2.19	0.43
45:VJ:383:GLU:O	45:VJ:386:THR:HG22	2.19	0.43
44:VK:33:ASP:HB3	44:VK:85:GLN:OE1	2.18	0.43
44:VK:135:PHE:O	44:VK:136:LEU:HD23	2.18	0.43
44:VK:288:VAL:HA	44:VK:291:ILE:HD11	2.00	0.43
45:VL:134:GLN:HA	45:VL:165:GLU:HB2	2.00	0.43
44:VM:51:THR:HG22	44:VM:52:PHE:CD1	2.54	0.43
44:WA:37:PRO:O	44:WA:38:SER:HB2	2.18	0.43
44:WA:186:ASN:O	44:WA:190:SER:N	2.44	0.43
45:WB:9:GLY:HA2	45:WB:66:MET:O	2.18	0.43
45:WB:113:ILE:HD12	45:WB:150:LEU:HD22	1.99	0.43
45:WB:133:PHE:O	45:WB:164:MET:HA	2.17	0.43
45:WB:168:SER:O	45:WB:201:VAL:HA	2.17	0.43
45:WB:263:LEU:HG	45:WB:422:TYR:HD1	1.84	0.43
45:WD:117:LEU:HD12	45:WD:154:LYS:HD2	1.99	0.43
44:WE:204:LEU:HD13	44:WE:231:ILE:HG22	2.00	0.43
44:WE:327:ASP:O	44:WE:330:ALA:HB3	2.18	0.43
45:WF:119:VAL:O	45:WF:123:GLU:HG2	2.18	0.43
44:WG:205:ASP:O	44:WG:209:ILE:HG13	2.19	0.43
45:WH:135:ILE:HG12	45:WH:164:MET:CE	2.49	0.43
44:WI:66:VAL:HG13	44:WI:66:VAL:O	2.18	0.43
44:WI:287:SER:N	44:WI:290:GLU:OE2	2.37	0.43
44:WI:390:ARG:O	44:WI:393:HIS:HB3	2.18	0.43
44:WK:435:VAL:O	44:WK:435:VAL:HG22	2.17	0.43
44:WM:51:THR:HG22	44:WM:52:PHE:CD1	2.53	0.43
44:WM:137:VAL:HG13	44:WM:137:VAL:O	2.19	0.43
44:WM:239:THR:O	44:WM:242:LEU:HB2	2.17	0.43
45:WN:3:GLU:CD	45:WN:129:CYS:H	2.22	0.43
45:WN:68:LEU:CD2	45:WN:97:ALA:HB2	2.48	0.43
45:WN:183:TYR:HE2	45:WN:394:PHE:HB2	1.84	0.43
1:6H:217:GLN:HG3	45:FD:320:ARG:CZ	2.20	0.43
8:0G:89:HIS:O	45:JN:361:LEU:HD21	2.17	0.43
18:1F:168:ARG:HB2	44:GK:96:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1J:265:ALA:HB2	44:II:372:MET:HE1	1.99	0.43
25:1P:341:LEU:CG	44:TC:26:LEU:HD11	2.48	0.43
26:1R:392:LEU:HD23	45:ED:276:ARG:NH1	2.15	0.43
16:1X:81:ARG:HG2	45:MF:276:ARG:CD	2.48	0.43
28:2C:298:PRO:O	45:KJ:357:PRO:HD2	2.18	0.43
32:2I:28:ILE:HD11	44:FG:117:LEU:CD2	2.47	0.43
26:2R:503:ASP:OD1	44:EG:41:THR:N	2.49	0.43
6:3E:121:ARG:NH2	35:6R:581:THR:HG22	2.34	0.43
32:3I:197:GLN:HE22	44:FK:123:ARG:CG	2.31	0.43
32:3I:281:THR:HG21	45:GJ:219:THR:OG1	2.17	0.43
16:3X:56:LYS:HE2	44:MM:279:GLU:HG3	1.99	0.43
37:5B:113:VAL:CG2	44:NE:370:LYS:HE2	2.49	0.43
37:5D:58:TYR:HB3	45:KN:183:TYR:CZ	2.48	0.43
38:5F:44:ARG:HE	44:OC:285:GLN:HE22	1.65	0.43
38:5H:47:GLU:HG2	44:OK:324:VAL:HG22	1.99	0.43
11:5Q:102:ARG:HH22	44:AK:430:LYS:CE	2.32	0.43
35:5R:28:THR:O	35:5R:28:THR:HG23	2.19	0.43
35:5R:341:ARG:NH2	35:5R:344:ASN:HA	2.34	0.43
35:5R:469:LYS:HE2	35:5R:472:GLU:CA	2.42	0.43
40:6F:40:PHE:HE2	40:6F:61:PHE:CD1	2.26	0.43
40:6F:69:LEU:HD23	40:6F:70:ASN:HB3	2.00	0.43
41:6G:84:VAL:HB	41:6G:85:PRO:CD	2.40	0.43
41:6G:241:LYS:HD3	45:VD:336:LYS:CD	2.49	0.43
41:6G:273:MET:HB2	44:UC:116:ASP:OD2	2.19	0.43
35:6R:404:LEU:HD12	45:DN:77:ARG:HD2	1.97	0.43
35:6R:436:GLU:HG3	45:FN:280:GLN:HG3	1.97	0.43
35:6R:534:HIS:ND1	35:6R:578:TYR:CE2	2.86	0.43
35:7R:286:GLU:OE1	35:7R:288:LYS:HG3	2.18	0.43
42:8N:219:UNK:O	42:8N:223:UNK:N	2.51	0.43
44:AA:298:PRO:HG3	44:AA:308:ARG:NH1	2.34	0.43
44:AA:320:ARG:NH2	44:AA:360:PRO:HA	2.34	0.43
45:AB:24:ILE:HG23	45:AB:28:HIS:HD2	1.84	0.43
45:AB:270:PHE:HE2	45:AB:273:LEU:CD2	2.30	0.43
44:AC:176:GLN:HG2	44:AC:177:VAL:N	2.34	0.43
44:AC:426:ALA:O	44:AC:429:GLU:HB2	2.18	0.43
45:AD:149:THR:HG23	45:AD:150:LEU:N	2.34	0.43
45:AD:248:SER:OG	45:AD:253:LEU:HD12	2.19	0.43
44:AE:31:GLN:HB3	44:AE:32:PRO:HD2	1.99	0.43
44:AE:100:ALA:O	45:AF:255:VAL:HG11	2.18	0.43
45:AH:28:HIS:NE2	45:AH:241:ARG:HD2	2.34	0.43
45:AH:257:LEU:HA	45:AH:312:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:276:ARG:HA	45:AH:276:ARG:NH1	2.33	0.43
44:AI:230:LEU:HD12	44:AI:275:ILE:HD13	2.01	0.43
45:AL:54:ALA:CA	45:BL:283:ALA:HB2	2.49	0.43
44:AM:101:ASN:ND2	45:AN:252:LYS:HE3	2.14	0.43
44:AM:200:VAL:HG23	44:AM:268:MET:SD	2.58	0.43
44:AM:402:ARG:O	44:AM:405:VAL:HG22	2.19	0.43
44:BA:143:GLY:HA3	46:BA:501:GTP:PB	2.58	0.43
44:BA:182:VAL:HG23	44:BA:185:TYR:CD2	2.54	0.43
44:BC:4:VAL:HG21	44:BC:136:LEU:HG	2.00	0.43
45:BD:49:VAL:HG21	45:BD:241:ARG:HG2	2.01	0.43
45:BD:238:CYS:CB	45:BD:318:ARG:HD2	2.49	0.43
44:BE:1:MET:CE	45:BH:94:GLN:HG2	2.48	0.43
44:BE:270:SER:CB	44:BE:378:ILE:HD13	2.48	0.43
45:BF:62:ARG:HB2	45:BF:62:ARG:CZ	2.48	0.43
45:BF:238:CYS:HB2	45:BF:318:ARG:NE	2.34	0.43
44:BG:7:ILE:O	44:BG:137:VAL:HA	2.18	0.43
44:BG:207:GLU:HG2	44:BG:304:LYS:NZ	2.33	0.43
45:BH:218:THR:HG23	45:BH:219:THR:N	2.34	0.43
45:BH:257:LEU:HD21	45:BH:314:SER:HB2	2.01	0.43
44:BK:1:MET:O	44:BK:131:GLY:HA3	2.18	0.43
44:BK:179:THR:O	44:BK:179:THR:HG22	2.17	0.43
44:BM:74:VAL:HG13	44:BM:75:ILE:N	2.33	0.43
45:BN:176:SER:HB2	45:BN:181:GLU:OE2	2.17	0.43
45:BN:352:SER:C	45:BN:353:ILE:HD12	2.39	0.43
44:CA:55:GLU:OE1	44:CA:61:HIS:HA	2.19	0.43
44:CA:84:ARG:HB2	44:CA:84:ARG:NH1	2.33	0.43
44:CA:141:VAL:HG12	44:CA:172:TYR:HA	2.01	0.43
44:CA:320:ARG:NE	44:CA:358:GLN:O	2.48	0.43
45:CB:47:ILE:HD13	45:CB:59:TYR:CE2	2.54	0.43
45:CB:180:VAL:HG22	45:CB:180:VAL:O	2.19	0.43
45:CB:256:ASN:CB	45:CB:350:LYS:HD2	2.49	0.43
45:CB:329:GLN:O	45:CB:332:ASN:HB3	2.18	0.43
45:CB:423:GLN:NE2	45:CB:426:GLN:OE1	2.48	0.43
44:CC:64:ARG:NH1	44:CC:129:CYS:SG	2.92	0.43
45:CD:60:VAL:HG23	45:CD:86:ARG:CD	2.45	0.43
45:CD:391:ARG:HA	45:CD:391:ARG:HD2	1.76	0.43
44:CE:313:MET:HE2	44:CE:435:VAL:HG11	2.01	0.43
45:CH:295:ASP:OD1	45:CH:297:LYS:HG2	2.19	0.43
44:CI:69:ASP:HB3	44:CI:75:ILE:CG1	2.48	0.43
44:CI:169:PHE:CD1	44:CI:202:VAL:HB	2.54	0.43
44:CI:346:TRP:HE3	44:CI:346:TRP:O	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CI:384:ILE:HG23	44:CI:387:VAL:CG2	2.49	0.43
45:CJ:360:GLY:O	45:CJ:361:LEU:HD12	2.18	0.43
44:CK:13:GLY:O	44:CK:16:VAL:HG12	2.18	0.43
45:CL:382:ALA:O	45:CL:386:THR:HG23	2.19	0.43
44:CM:6:SER:HA	44:CM:136:LEU:HB2	2.00	0.43
44:CM:152:LEU:HD12	44:CM:156:ARG:HH12	1.82	0.43
44:DA:335:ILE:O	44:DA:338:LYS:HB2	2.18	0.43
44:DE:271:SER:CA	44:DE:302:MET:HG2	2.45	0.43
44:DE:305:CYS:SG	44:DE:384:ILE:HA	2.59	0.43
45:DH:87:PRO:HD2	45:EH:281:TYR:CD2	2.54	0.43
45:DJ:105:HIS:O	45:DJ:106:TYR:HD1	2.01	0.43
45:DL:12:CYS:O	45:DL:16:ILE:N	2.35	0.43
45:DL:31:ASP:OD2	45:DL:37:HIS:ND1	2.51	0.43
45:DL:378:PHE:HB3	45:DL:415:MET:HE2	2.00	0.43
45:DN:1:MET:SD	45:DN:129:CYS:HB2	2.59	0.43
45:DN:148:GLY:O	45:DN:152:ILE:HG12	2.18	0.43
44:EA:68:LEU:HD11	44:EA:118:CYS:SG	2.58	0.43
44:EA:319:TYR:HB2	44:EA:355:ILE:HG12	2.01	0.43
45:EB:36:TYR:HE1	45:EB:38:GLY:HA3	1.83	0.43
45:EB:52:ASN:HB2	45:EB:60:VAL:HG13	1.99	0.43
45:EB:328:GLU:O	45:EB:331:LEU:HG	2.18	0.43
44:EC:65:ALA:HB3	44:EC:87:PHE:HE1	1.83	0.43
44:EC:430:LYS:HA	44:EC:433:GLU:HG2	1.99	0.43
45:ED:19:LYS:O	45:ED:23:VAL:HG23	2.19	0.43
44:EE:188:ILE:HD12	44:EE:191:THR:CB	2.48	0.43
45:EF:158:GLU:OE1	45:EF:159:TYR:CE1	2.71	0.43
45:EH:175:VAL:O	45:EH:175:VAL:HG23	2.19	0.43
44:EI:27:GLU:CA	44:EI:361:THR:HG21	2.46	0.43
44:EI:261:PRO:HA	45:EJ:394:PHE:CD2	2.53	0.43
45:EJ:330:MET:HG3	45:EJ:351:SER:OG	2.18	0.43
45:EJ:377:MET:O	45:EJ:381:VAL:HG22	2.18	0.43
44:EK:208:ALA:HB3	44:EK:302:MET:O	2.19	0.43
45:EL:267:MET:O	45:EL:369:GLY:N	2.47	0.43
45:EN:211:CYS:O	45:EN:216:LYS:N	2.48	0.43
44:FA:172:TYR:HB3	44:FA:173:PRO:HD2	2.01	0.43
45:FB:49:VAL:O	45:FB:49:VAL:CG1	2.66	0.43
45:FB:187:LEU:HD11	45:FB:408:PHE:CZ	2.53	0.43
44:FC:108:TYR:CD2	44:FC:413:MET:HE3	2.54	0.43
44:FC:261:PRO:HG2	44:FC:313:MET:HE3	1.99	0.43
44:FC:426:ALA:O	44:FC:429:GLU:HB2	2.18	0.43
45:FD:87:PRO:HD3	45:GD:281:TYR:CD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:268:ILE:O	45:FD:300:MET:HE2	2.19	0.43
45:FD:377:MET:HA	45:FD:380:ARG:HG2	2.00	0.43
45:FF:293:MET:SD	45:FF:367:PHE:HB2	2.59	0.43
44:FG:208:ALA:O	44:FG:212:ILE:CD1	2.63	0.43
44:FG:209:ILE:HG22	44:FG:227:LEU:HD22	2.00	0.43
44:FG:215:ARG:CZ	44:FG:299:ALA:HB1	2.49	0.43
45:FH:131:GLN:O	45:FH:163:ILE:HG22	2.18	0.43
45:FH:354:CYS:SG	45:FH:355:ASP:N	2.91	0.43
44:FI:109:THR:C	44:FI:110:ILE:HD13	2.39	0.43
44:FI:212:ILE:HG23	44:FI:213:CYS:N	2.33	0.43
44:FI:346:TRP:HZ3	45:FL:394:PHE:HE1	1.66	0.43
45:FL:7:ILE:HG22	45:FL:135:ILE:HD13	2.01	0.43
45:FL:89:ASN:HD22	45:FL:119:VAL:CG2	2.32	0.43
45:FL:174:LYS:HD2	45:FL:175:VAL:HG13	2.01	0.43
45:FL:257:LEU:HB3	45:FL:266:PHE:CE2	2.54	0.43
44:FM:119:LEU:CA	44:FM:122:ILE:HG12	2.48	0.43
45:FN:248:SER:OG	45:FN:252:LYS:HB3	2.19	0.43
44:GA:90:GLU:C	44:GA:121:ARG:HH12	2.21	0.43
44:GA:184:PRO:O	44:GA:187:SER:HB2	2.18	0.43
44:GA:286:LEU:C	44:GA:373:ARG:HH21	2.22	0.43
45:GB:152:ILE:HD12	45:GB:164:MET:HE1	2.00	0.43
44:GC:200:VAL:HG13	44:GC:268:MET:HE1	2.00	0.43
44:GC:258:ASN:OD1	45:GF:179:VAL:HG22	2.19	0.43
44:GC:295:ALA:O	44:GC:301:MET:HE1	2.19	0.43
45:GD:233:MET:CE	45:GD:233:MET:HA	2.48	0.43
45:GD:234:SER:O	45:GD:238:CYS:N	2.51	0.43
44:GE:9:VAL:HG12	44:GE:68:LEU:HB2	2.01	0.43
44:GE:210:TYR:CD1	45:GF:324:LYS:HD2	2.53	0.43
44:GE:394:LYS:O	44:GE:398:MET:HG2	2.19	0.43
45:GF:20:PHE:HA	45:GF:230:SER:HB3	2.01	0.43
45:GF:73:MET:C	45:GF:76:VAL:HG12	2.39	0.43
45:GF:121:ARG:HA	45:GF:159:TYR:OH	2.19	0.43
45:GF:313:ALA:HA	45:GF:369:GLY:HA2	2.00	0.43
44:GG:199:ASP:O	44:GG:266:HIS:HB2	2.19	0.43
44:GI:19:ALA:HB2	44:GI:228:ASN:HB3	2.01	0.43
44:GK:24:PHE:HE1	44:GK:52:PHE:HE2	1.65	0.43
44:GK:268:MET:CG	44:GK:378:ILE:HG22	2.49	0.43
44:GK:268:MET:HG3	44:GK:378:ILE:HG22	2.01	0.43
45:GL:221:THR:O	45:GL:225:LEU:N	2.41	0.43
45:GL:318:ARG:NH2	45:GL:364:ALA:CB	2.78	0.43
45:GN:191:GLN:HG3	45:GN:195:ASN:HD22	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:245:GLN:CG	45:HB:353:ILE:HG21	2.49	0.43
45:HB:252:LYS:HG2	45:HB:350:LYS:HZ1	1.83	0.43
45:HB:421:GLU:O	45:HB:424:GLN:HB3	2.18	0.43
44:HC:23:LEU:HD21	44:HC:236:SER:CB	2.45	0.43
44:HC:320:ARG:NH2	44:HC:360:PRO:HB3	2.33	0.43
44:HC:326:LYS:HG2	45:HF:220:PRO:HD2	2.00	0.43
44:HC:372:MET:SD	44:HC:372:MET:O	2.76	0.43
45:HD:87:PRO:HD2	45:ID:281:TYR:CE2	2.54	0.43
44:HE:7:ILE:CD1	44:HE:122:ILE:HD11	2.48	0.43
44:HE:117:LEU:HD23	44:HE:117:LEU:C	2.39	0.43
44:HE:192:HIS:ND1	44:HE:424:ASP:OD2	2.52	0.43
44:HG:74:VAL:HG23	44:HG:75:ILE:N	2.33	0.43
44:HG:425:LEU:HD23	44:HG:425:LEU:HA	1.90	0.43
44:HI:222:PRO:HG2	45:HJ:324:LYS:CB	2.48	0.43
44:HI:253:THR:CA	44:HI:256:GLN:HE22	2.28	0.43
44:HI:323:VAL:O	44:HI:325:PRO:HD3	2.19	0.43
44:HM:99:ALA:HB2	44:HM:145:THR:HB	2.00	0.43
44:HM:270:SER:O	44:HM:302:MET:HB2	2.17	0.43
45:HN:51:TYR:CE1	45:HN:61:PRO:HG3	2.54	0.43
45:HN:180:VAL:HG22	45:HN:180:VAL:O	2.19	0.43
44:IA:48:ALA:HB1	44:IA:243:ARG:HB2	2.00	0.43
44:IA:254:GLU:CG	45:ID:98:GLY:HA2	2.49	0.43
45:ID:91:VAL:O	45:ID:91:VAL:HG23	2.18	0.43
45:ID:275:SER:O	45:ID:279:GLN:N	2.51	0.43
45:ID:318:ARG:HD3	45:ID:357:PRO:CA	2.47	0.43
44:IE:224:TYR:O	44:IE:228:ASN:ND2	2.52	0.43
45:IF:132:GLY:HA3	45:IF:163:ILE:O	2.19	0.43
44:IG:324:VAL:CG1	44:IG:326:LYS:HG3	2.48	0.43
44:II:215:ARG:NH2	44:II:297:GLU:OE2	2.51	0.43
45:IJ:167:PHE:CE1	45:IJ:200:MET:HE1	2.54	0.43
45:IJ:207:LEU:HD13	45:IJ:225:LEU:HB3	2.01	0.43
45:IJ:404:ASP:OD1	45:IJ:404:ASP:N	2.50	0.43
44:IK:88:HIS:ND1	44:IK:89:PRO:HD2	2.34	0.43
44:IK:93:ILE:HD12	44:IK:93:ILE:H	1.83	0.43
44:IK:392:ASP:HB2	44:IK:429:GLU:OE2	2.19	0.43
45:IL:318:ARG:N	45:IL:364:ALA:O	2.39	0.43
44:IM:383:ALA:O	44:IM:386:GLU:HG2	2.18	0.43
44:JA:120:ASP:HA	44:JA:123:ARG:CG	2.48	0.43
44:JA:135:PHE:HB2	44:JA:166:LYS:CB	2.49	0.43
45:JB:6:HIS:NE2	45:JB:8:GLN:OE1	2.51	0.43
45:JB:288:GLU:HA	45:JB:291:GLN:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:93:ILE:HD12	44:JC:93:ILE:H	1.84	0.43
44:JC:301:MET:CE	44:JC:307:PRO:HB3	2.48	0.43
45:JD:4:ILE:HG22	45:JD:131:GLN:HB3	2.01	0.43
45:JD:101:TRP:HZ3	45:JD:187:LEU:CB	2.24	0.43
44:JE:237:SER:HB2	44:JE:320:ARG:HH11	1.83	0.43
44:JG:265:ILE:HG23	44:JG:432:TYR:CZ	2.52	0.43
44:JI:254:GLU:O	44:JI:255:PHE:CD1	2.71	0.43
44:JI:292:THR:CG2	44:JI:331:SER:HB2	2.29	0.43
44:JL:349:THR:HG21	45:JL:176:SER:CB	2.48	0.43
45:JJ:189:VAL:HG13	45:JJ:415:MET:CE	2.41	0.43
45:JJ:258:ILE:HG23	45:JJ:266:PHE:HZ	1.84	0.43
44:JK:285:GLN:OE1	44:JK:287:SER:CB	2.63	0.43
45:JL:218:THR:HG22	45:JL:219:THR:CG2	2.46	0.43
45:JL:222:TYR:HD1	48:JL:501:GDP:O6	2.02	0.43
44:JM:142:GLY:HA2	44:JM:186:ASN:OD1	2.18	0.43
45:JN:189:VAL:CG1	45:JN:415:MET:HE2	2.46	0.43
44:KA:5:ILE:HD11	44:KA:126:ALA:HA	2.00	0.43
44:KA:319:TYR:HE2	44:KA:328:VAL:HG22	1.84	0.43
45:KB:314:SER:CA	45:KB:350:LYS:HE3	2.48	0.43
44:KC:270:SER:O	44:KC:302:MET:HB2	2.19	0.43
44:KE:79:ARG:HH22	44:KE:93:ILE:CD1	2.32	0.43
45:KF:211:CYS:SG	45:KF:220:PRO:HB3	2.59	0.43
45:KF:222:TYR:O	45:KF:226:ASN:ND2	2.51	0.43
44:KG:280:LYS:O	44:KG:280:LYS:HG2	2.18	0.43
45:KH:130:LEU:HD21	45:KH:133:PHE:CZ	2.54	0.43
45:KH:170:VAL:O	45:KH:170:VAL:HG23	2.18	0.43
44:KI:11:GLN:OE1	45:KJ:246:LEU:HA	2.18	0.43
44:KI:209:ILE:O	44:KI:212:ILE:HG22	2.19	0.43
44:KI:407:TRP:HZ2	45:KJ:258:ILE:HD11	1.75	0.43
45:KJ:251:ARG:O	45:KJ:254:ALA:HB3	2.18	0.43
44:KK:169:PHE:HE1	44:KK:235:ILE:HD13	1.83	0.43
45:KL:101:TRP:CZ3	45:KL:187:LEU:CB	2.99	0.43
45:KL:178:THR:O	45:KL:181:GLU:HG2	2.18	0.43
45:KL:368:VAL:O	45:KL:368:VAL:CG1	2.66	0.43
44:KM:7:ILE:CG1	44:KM:137:VAL:HG12	2.48	0.43
44:KM:253:THR:HG23	44:KM:254:GLU:CD	2.38	0.43
45:KN:174:LYS:HE2	45:KN:205:GLU:HG3	2.01	0.43
45:KN:305:PRO:HA	45:KN:373:ALA:CB	2.49	0.43
44:LA:76:ASP:HB2	45:LB:46:ARG:HH22	1.83	0.43
44:LA:154:LEU:HA	44:LA:157:LEU:HD12	2.01	0.43
45:LB:109:GLY:O	45:LB:113:ILE:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LC:285:GLN:HG3	44:LC:287:SER:HB2	1.99	0.43
45:LD:382:ALA:O	45:LD:386:THR:HG23	2.19	0.43
45:LF:152:ILE:HA	45:LF:155:VAL:CG2	2.48	0.43
45:LH:4:ILE:HD11	45:LH:50:TYR:CE1	2.53	0.43
44:LI:6:SER:O	44:LI:66:VAL:HG12	2.18	0.43
45:LJ:67:ASP:HB3	45:LJ:73:MET:HE2	1.99	0.43
45:LJ:101:TRP:CD1	45:LJ:146:GLY:HA2	2.53	0.43
44:LM:132:LEU:HD11	44:LM:135:PHE:CZ	2.54	0.43
44:LM:394:LYS:HB3	44:LM:398:MET:HE1	1.99	0.43
45:LN:73:MET:CE	45:LN:92:PHE:HB3	2.47	0.43
45:LN:175:VAL:HG13	45:LN:205:GLU:OE2	2.17	0.43
45:LN:313:ALA:HB3	45:LN:349:ILE:HD12	2.00	0.43
45:LN:368:VAL:HG13	45:LN:368:VAL:O	2.18	0.43
45:MD:321:MET:SD	45:MD:321:MET:N	2.92	0.43
45:MF:257:LEU:CD2	45:MF:368:VAL:HG12	2.49	0.43
44:MG:254:GLU:CG	45:MJ:98:GLY:HA2	2.48	0.43
44:MG:437:ILE:O	44:MG:437:ILE:HG13	2.19	0.43
45:MH:67:ASP:OD2	45:MH:72:THR:HG21	2.19	0.43
45:MH:131:GLN:O	45:MH:163:ILE:HG12	2.19	0.43
45:MH:371:SER:O	45:MH:422:TYR:OH	2.36	0.43
44:MI:274:PRO:O	44:MI:275:ILE:HD13	2.19	0.43
45:MJ:130:LEU:HD23	45:MJ:131:GLN:N	2.34	0.43
45:MJ:170:VAL:HG23	45:MJ:171:PRO:HD2	1.99	0.43
44:MK:30:ILE:HD13	44:MK:36:MET:HG2	2.00	0.43
44:MK:88:HIS:HB3	44:MK:91:GLN:CG	2.45	0.43
44:MK:241:SER:HA	44:MK:356:ASN:HD22	1.79	0.43
44:MK:271:SER:HA	44:MK:302:MET:HG2	1.99	0.43
44:MM:216:ASN:HB3	44:MM:275:ILE:O	2.19	0.43
45:MN:103:LYS:O	45:MN:107:THR:OG1	2.33	0.43
44:NA:113:GLU:OE1	44:NA:113:GLU:N	2.49	0.43
44:NA:288:VAL:HA	44:NA:291:ILE:HG12	1.99	0.43
44:NA:319:TYR:CD1	44:NA:375:VAL:HG21	2.52	0.43
44:NA:396:ASP:HB2	44:NA:422:ARG:NH2	2.33	0.43
45:NB:16:ILE:HG12	45:NB:226:ASN:HD22	1.83	0.43
44:NC:182:VAL:C	44:NC:184:PRO:HD2	2.38	0.43
44:NC:183:GLU:CD	44:NC:184:PRO:HD3	2.38	0.43
44:NE:103:PHE:CD1	44:NE:413:MET:HE1	2.49	0.43
44:NE:169:PHE:HD1	44:NE:202:VAL:HB	1.84	0.43
44:NE:386:GLU:HA	44:NE:386:GLU:OE1	2.18	0.43
44:NG:210:TYR:CE1	44:NG:227:LEU:HD21	2.54	0.43
44:NK:251:ASP:CG	44:NK:253:THR:HG22	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NK:254:GLU:O	44:NK:255:PHE:HD1	2.01	0.43
45:NL:112:LEU:O	45:NL:112:LEU:HD23	2.18	0.43
45:NN:80:PRO:O	45:NN:81:PHE:HB2	2.18	0.43
45:NN:149:THR:HG23	45:NN:150:LEU:N	2.34	0.43
45:NN:178:THR:HG21	45:NN:180:VAL:HG22	1.97	0.43
45:NN:416:ASN:O	45:NN:419:VAL:HG22	2.18	0.43
44:OA:6:SER:OG	44:OA:64:ARG:O	2.26	0.43
44:OA:231:ILE:O	44:OA:234:VAL:N	2.51	0.43
44:OA:312:TYR:CE2	44:OA:381:SER:HB3	2.52	0.43
44:OA:371:VAL:CG1	44:OA:372:MET:N	2.82	0.43
45:OD:7:ILE:HG12	45:OD:64:ILE:HB	2.01	0.43
45:OD:140:GLY:C	48:OD:502:GDP:H5'	2.39	0.43
45:OD:189:VAL:HG11	45:OD:415:MET:HE2	1.98	0.43
45:OD:242:PHE:CG	45:OD:356:ILE:HG13	2.54	0.43
44:OE:156:ARG:NE	44:OE:156:ARG:HA	2.33	0.43
44:OE:332:ILE:HG22	44:OE:336:LYS:NZ	2.33	0.43
45:OF:309:ARG:N	45:OF:372:THR:HG1	2.01	0.43
44:OG:33:ASP:HB3	44:OG:35:GLN:HE22	1.83	0.43
44:OG:203:MET:O	44:OG:204:LEU:HD23	2.18	0.43
44:OG:387:VAL:CA	44:OG:390:ARG:HG2	2.47	0.43
44:OG:426:ALA:HA	44:OG:429:GLU:HB2	2.00	0.43
45:OH:7:ILE:HG23	45:OH:135:ILE:HD12	2.00	0.43
45:OH:10:GLY:HA2	45:OH:143:THR:HG21	2.00	0.43
45:OJ:309:ARG:NH2	45:OJ:342:VAL:HG23	2.34	0.43
44:OK:287:SER:O	44:OK:291:ILE:HG22	2.18	0.43
44:OK:398:MET:HE2	45:OL:344:TRP:O	2.18	0.43
45:OL:20:PHE:CE2	45:OL:233:MET:HE3	2.53	0.43
45:OL:67:ASP:OD2	45:OL:69:GLU:N	2.37	0.43
45:OL:232:ALA:HB1	45:OL:268:ILE:HD12	1.99	0.43
45:OL:344:TRP:CE3	45:OL:345:ILE:HG23	2.53	0.43
45:ON:143:THR:HA	45:ON:147:MET:HE1	2.00	0.43
45:ON:404:ASP:N	45:ON:404:ASP:OD1	2.52	0.43
44:PA:7:ILE:HB	44:PA:137:VAL:CG2	2.48	0.43
44:PA:404:PHE:CZ	45:PB:259:PRO:HG3	2.53	0.43
45:PB:83:GLN:OE1	45:PB:83:GLN:HA	2.19	0.43
44:PC:140:SER:O	44:PC:147:SER:N	2.51	0.43
44:PC:294:SER:HB3	44:PC:300:ASN:HD21	1.82	0.43
44:PE:206:ASN:OD1	46:PE:501:GTP:N2	2.51	0.43
44:PE:290:GLU:O	44:PE:293:ASN:HB2	2.18	0.43
45:PF:290:THR:CG2	45:PF:329:GLN:HG2	2.48	0.43
44:PG:317:MET:HE1	44:PG:332:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:325:GLU:CA	45:PH:328:GLU:HG2	2.47	0.43
44:PI:62:VAL:HG13	44:PI:62:VAL:O	2.17	0.43
44:PI:88:HIS:HB3	44:PI:91:GLN:CD	2.39	0.43
44:PI:142:GLY:HA3	46:PI:501:GTP:H4'	2.00	0.43
44:PI:294:SER:HA	44:PI:297:GLU:OE2	2.19	0.43
44:PI:428:LEU:O	44:PI:431:ASP:N	2.52	0.43
45:PJ:238:CYS:HB2	45:PJ:318:ARG:HH21	1.82	0.43
44:PK:23:LEU:HD13	44:PK:233:GLN:HE22	1.82	0.43
44:PK:278:ALA:HB2	44:PK:369:ALA:CB	2.46	0.43
45:PL:169:VAL:HG13	45:PL:202:ILE:O	2.19	0.43
45:PL:391:ARG:HA	45:PL:391:ARG:HD2	1.79	0.43
44:PM:24:PHE:HE1	44:PM:236:SER:HA	1.83	0.43
44:PM:135:PHE:O	44:PM:136:LEU:HD23	2.18	0.43
45:PN:406:MET:O	45:PN:410:GLU:HG3	2.18	0.43
44:QA:317:MET:HB2	44:QA:376:CYS:O	2.18	0.43
45:QB:308:GLY:O	45:QB:340:TYR:HD1	2.01	0.43
44:QC:104:ALA:HB1	44:QC:411:GLU:CB	2.43	0.43
44:QC:150:GLY:O	44:QC:154:LEU:HG	2.19	0.43
44:QC:155:GLU:HG2	44:QC:197:HIS:CD2	2.53	0.43
44:QC:246:GLY:CA	44:QC:356:ASN:HA	2.49	0.43
45:QD:42:LEU:HD23	45:QD:243:PRO:HD2	2.01	0.43
44:QE:107:HIS:HB3	44:QE:108:TYR:CD2	2.54	0.43
44:QE:158:SER:O	44:QE:162:GLY:HA2	2.18	0.43
44:QE:348:PRO:HD2	45:QF:388:MET:CE	2.49	0.43
45:QF:21:TRP:HA	45:QF:24:ILE:HD13	2.01	0.43
45:QF:165:GLU:OE2	45:QF:250:LEU:HD13	2.18	0.43
45:QF:299:MET:HE1	45:QF:305:PRO:HB3	2.01	0.43
45:QF:318:ARG:HD3	45:QF:358:PRO:CG	2.49	0.43
45:QF:325:GLU:HA	45:QF:328:GLU:OE2	2.18	0.43
44:QG:288:VAL:HA	44:QG:291:ILE:HD11	2.00	0.43
44:QG:427:ALA:O	44:QG:431:ASP:N	2.41	0.43
44:QI:31:GLN:HB3	44:QI:32:PRO:HD2	2.00	0.43
44:QI:182:VAL:C	44:QI:184:PRO:HD2	2.39	0.43
45:QJ:25:SER:OG	45:QJ:30:ILE:HD11	2.19	0.43
45:QJ:66:MET:HE2	45:QJ:116:VAL:HB	2.01	0.43
45:QJ:199:CYS:HB3	45:QJ:264:HIS:O	2.17	0.43
45:QJ:322:SER:OG	45:QJ:325:GLU:HB3	2.18	0.43
44:QK:70:LEU:HB3	44:QK:97:GLU:O	2.18	0.43
44:QK:276:ILE:HG12	44:QK:281:ALA:HB2	2.01	0.43
45:QL:24:ILE:O	45:QL:27:GLU:N	2.48	0.43
44:QM:320:ARG:HA	44:QM:356:ASN:C	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:282:ARG:NH1	45:QN:284:LEU:HD23	2.31	0.43
44:RA:37:PRO:O	44:RA:38:SER:OG	2.33	0.43
44:RA:54:SER:HB3	44:RA:64:ARG:NE	2.33	0.43
45:RB:113:ILE:HD11	45:RB:151:LEU:HA	2.01	0.43
44:RC:7:ILE:HB	44:RC:137:VAL:HA	2.01	0.43
44:RC:183:GLU:CG	44:RC:184:PRO:HD3	2.47	0.43
44:RC:256:GLN:O	44:RC:260:VAL:HG22	2.19	0.43
45:RD:116:VAL:HG22	45:RD:151:LEU:HD11	1.99	0.43
45:RD:200:MET:CE	45:RD:268:ILE:HG23	2.44	0.43
44:RE:79:ARG:O	44:RE:84:ARG:HB2	2.19	0.43
44:RE:141:VAL:HG22	44:RE:187:SER:CA	2.48	0.43
44:RE:209:ILE:HB	44:RE:227:LEU:HD21	2.01	0.43
44:RE:334:THR:HA	44:RE:337:THR:HB	2.00	0.43
45:RF:3:GLU:HB2	45:RF:49:VAL:O	2.18	0.43
44:RG:11:GLN:CB	46:RG:501:GTP:PB	3.05	0.43
45:RH:31:ASP:OD2	45:RH:37:HIS:ND1	2.41	0.43
45:RH:200:MET:HE1	45:RH:266:PHE:HB2	1.96	0.43
44:RI:167:LEU:HD12	44:RI:167:LEU:N	2.34	0.43
45:RJ:258:ILE:HG13	45:RJ:266:PHE:CZ	2.52	0.43
44:RK:2:ARG:HD2	44:RK:242:LEU:C	2.39	0.43
45:RL:83:GLN:HA	45:RL:83:GLN:OE1	2.19	0.43
45:RL:86:ARG:HH21	45:RL:87:PRO:CG	2.32	0.43
45:RL:138:SER:HA	45:RL:169:VAL:HB	1.99	0.43
45:RL:210:ILE:HD11	45:RL:298:ASN:C	2.37	0.43
45:RL:236:VAL:HG12	45:RL:250:LEU:HD22	1.97	0.43
45:RN:11:GLN:HB2	48:RN:501:GDP:O3B	2.19	0.43
45:RN:44:LEU:HD23	45:RN:47:ILE:HG21	2.01	0.43
45:RN:131:GLN:O	45:RN:163:ILE:HG12	2.19	0.43
45:RN:327:ASP:HA	45:RN:330:MET:HE2	2.00	0.43
45:SB:3:GLU:O	45:SB:131:GLN:HB3	2.18	0.43
45:SB:33:THR:O	45:SB:58:ARG:NH1	2.52	0.43
45:SB:136:THR:O	45:SB:136:THR:OG1	2.34	0.43
45:SB:139:LEU:HD23	45:SB:185:ALA:CB	2.48	0.43
45:SB:207:LEU:HD23	45:SB:210:ILE:CD1	2.47	0.43
45:SB:276:ARG:HA	45:SB:276:ARG:HD3	1.82	0.43
45:SD:211:CYS:HA	45:SD:215:LEU:CG	2.48	0.43
45:SD:257:LEU:HB3	45:SD:266:PHE:CZ	2.53	0.43
44:SE:7:ILE:HD12	44:SE:122:ILE:HD11	2.01	0.43
44:SI:344:VAL:HG21	44:SI:346:TRP:CE2	2.53	0.43
45:SJ:21:TRP:CZ3	45:SJ:50:TYR:HB3	2.53	0.43
45:SJ:238:CYS:HB2	45:SJ:318:ARG:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:5:ILE:O	44:SK:135:PHE:HA	2.18	0.43
45:SL:208:TYR:CZ	45:SL:225:LEU:HD11	2.53	0.43
44:SM:22:GLU:O	44:SM:26:LEU:N	2.49	0.43
44:SM:213:CYS:CB	44:SM:217:LEU:HD12	2.48	0.43
44:SM:241:SER:HB2	44:SM:249:ASN:HB3	1.99	0.43
44:SM:325:PRO:HG3	44:SM:355:ILE:HD13	1.99	0.43
44:TA:167:LEU:CG	44:TA:200:VAL:HB	2.46	0.43
44:TA:226:ASN:HA	44:TA:229:ARG:HD2	2.01	0.43
45:TB:304:ASP:CG	45:TB:306:ARG:HG2	2.38	0.43
44:TC:248:LEU:N	44:TC:355:ILE:HD11	2.33	0.43
44:TC:323:VAL:O	44:TC:323:VAL:HG13	2.19	0.43
45:TD:47:ILE:O	45:TD:51:TYR:HB2	2.19	0.43
45:TD:239:CYS:HB3	45:TD:354:CYS:HB2	1.99	0.43
44:TE:47:ASP:HB2	44:TE:50:ASN:ND2	2.34	0.43
44:TE:89:PRO:HG3	44:UE:280:LYS:CD	2.42	0.43
44:TE:156:ARG:CA	44:TE:159:VAL:HG12	2.46	0.43
44:TE:194:LEU:CD1	44:TE:266:HIS:HE1	2.31	0.43
45:TF:313:ALA:HA	45:TF:369:GLY:CA	2.43	0.43
45:TF:371:SER:C	45:TF:373:ALA:H	2.21	0.43
44:TG:68:LEU:HD21	44:TG:118:CYS:SG	2.59	0.43
44:TG:123:ARG:HA	44:TG:161:TYR:HH	1.83	0.43
44:TG:230:LEU:HD12	44:TG:275:ILE:HD13	2.00	0.43
44:TG:285:GLN:O	44:TG:286:LEU:HB2	2.19	0.43
45:TJ:97:ALA:HA	45:TJ:103:LYS:CE	2.42	0.43
44:TK:137:VAL:O	44:TK:137:VAL:HG23	2.18	0.43
44:TK:203:MET:HB2	44:TK:269:LEU:HA	2.00	0.43
45:TL:260:PHE:HZ	44:TM:401:LYS:HD3	1.83	0.43
44:TM:9:VAL:HG21	44:TM:150:GLY:HA2	2.00	0.43
45:TN:113:ILE:HA	45:TN:116:VAL:HG12	1.99	0.43
44:UA:288:VAL:HG12	44:UA:289:ALA:N	2.33	0.43
45:UB:151:LEU:HD23	45:UB:151:LEU:O	2.19	0.43
45:UB:334:GLN:NE2	45:UB:348:ASN:H	2.16	0.43
44:UC:23:LEU:HD22	44:UC:233:GLN:NE2	2.34	0.43
45:UD:101:TRP:N	45:UD:398:TYR:HE1	2.17	0.43
45:UF:65:LEU:HD23	45:UF:73:MET:HE1	2.00	0.43
45:UF:226:ASN:O	45:UF:229:VAL:HB	2.17	0.43
44:UG:387:VAL:CA	44:UG:390:ARG:HG2	2.45	0.43
45:UH:3:GLU:HB2	45:UH:62:ARG:NH1	2.33	0.43
45:UH:201:VAL:HG13	45:UH:301:CYS:SG	2.59	0.43
44:UI:352:LYS:O	44:UI:352:LYS:HG3	2.19	0.43
44:UI:413:MET:SD	44:UI:414:GLU:N	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:175:VAL:O	45:UJ:175:VAL:HG23	2.19	0.43
45:UJ:242:PHE:CB	45:UJ:356:ILE:HG13	2.48	0.43
44:UK:14:ILE:CD1	44:UK:75:ILE:HD11	2.46	0.43
45:UL:316:LEU:C	45:UL:317:PHE:HD1	2.22	0.43
44:UM:11:GLN:HB3	46:UM:501:GTP:PB	2.58	0.43
44:UM:291:ILE:HG23	44:UM:373:ARG:NH2	2.33	0.43
45:UN:52:ASN:CB	45:UN:60:VAL:HG13	2.48	0.43
44:VA:135:PHE:C	44:VA:136:LEU:HD23	2.39	0.43
44:VA:323:VAL:CG1	44:VA:355:ILE:HG12	2.48	0.43
44:VA:404:PHE:CE2	45:VB:345:ILE:HD12	2.54	0.43
45:VB:295:ASP:OD2	45:VB:297:LYS:HE2	2.18	0.43
44:VC:250:VAL:HG11	44:VC:318:MET:SD	2.58	0.43
44:VC:358:GLN:HG3	44:VC:359:PRO:N	2.31	0.43
44:VE:19:ALA:HB1	44:VE:228:ASN:HB3	1.97	0.43
44:VE:72:PRO:CG	44:VE:96:LYS:HA	2.48	0.43
44:VE:118:CYS:SG	44:VE:153:LEU:HD21	2.59	0.43
44:VE:132:LEU:CD2	44:VE:164:LYS:HD3	2.49	0.43
44:VE:221:ARG:NE	45:VF:322:SER:HB2	2.34	0.43
44:VE:224:TYR:HD2	45:VF:245:GLN:HB3	1.83	0.43
44:VG:247:ALA:N	44:VG:357:TYR:HE1	2.15	0.43
45:VH:7:ILE:HB	45:VH:135:ILE:CD1	2.49	0.43
45:VH:193:VAL:HA	45:VH:264:HIS:CE1	2.54	0.43
44:VI:71:GLU:OE2	44:VI:73:THR:OG1	2.26	0.43
44:VI:137:VAL:HG11	44:VI:154:LEU:HD21	2.01	0.43
44:VI:203:MET:CE	44:VI:203:MET:HA	2.49	0.43
45:VJ:68:LEU:CD2	45:VJ:97:ALA:HB2	2.48	0.43
45:VJ:208:TYR:CZ	45:VJ:225:LEU:HD11	2.53	0.43
44:VK:236:SER:C	44:VK:320:ARG:HH22	2.22	0.43
44:VK:351:PHE:O	45:VN:179:VAL:HG13	2.19	0.43
45:VL:116:VAL:O	45:VL:119:VAL:HG12	2.18	0.43
44:VM:12:GLY:C	44:VM:16:VAL:HG12	2.37	0.43
44:VM:25:CYS:SG	44:VM:30:ILE:HB	2.58	0.43
44:VM:87:PHE:HB3	44:VM:92:LEU:CD1	2.41	0.43
45:VN:113:ILE:O	45:VN:116:VAL:HG12	2.18	0.43
45:VN:255:VAL:HG12	45:VN:256:ASN:OD1	2.18	0.43
44:WA:152:LEU:CB	44:WA:153:LEU:HB3	2.47	0.43
44:WC:49:PHE:O	44:WC:53:PHE:N	2.52	0.43
44:WC:156:ARG:CA	44:WC:159:VAL:HG12	2.46	0.43
44:WC:238:LEU:HD12	44:WC:238:LEU:O	2.18	0.43
45:WD:135:ILE:CG1	45:WD:152:ILE:HD11	2.41	0.43
45:WD:256:ASN:HB3	45:WD:257:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:35:GLN:OE1	44:WE:59:GLY:HA2	2.18	0.43
44:WE:199:ASP:O	44:WE:266:HIS:HB2	2.18	0.43
45:WF:314:SER:OG	45:WF:368:VAL:HB	2.18	0.43
44:WG:424:ASP:O	44:WG:428:LEU:N	2.46	0.43
45:WH:21:TRP:HA	45:WH:24:ILE:CG2	2.46	0.43
45:WH:174:LYS:CD	45:WH:175:VAL:HG13	2.49	0.43
45:WH:285:THR:HA	45:WH:363:MET:HE3	2.00	0.43
44:WI:119:LEU:HG	44:WI:156:ARG:CD	2.46	0.43
44:WI:352:LYS:HD2	45:WL:177:ASP:O	2.17	0.43
44:WI:407:TRP:HH2	45:WJ:255:VAL:HA	1.73	0.43
45:WJ:5:VAL:HG12	45:WJ:62:ARG:NE	2.34	0.43
45:WJ:62:ARG:HG3	45:WJ:62:ARG:HH11	1.84	0.43
45:WJ:403:MET:N	45:WJ:403:MET:SD	2.91	0.43
44:WK:109:THR:HB	44:WK:110:ILE:HD12	2.00	0.43
45:WL:227:HIS:CA	45:WL:230:SER:HB2	2.44	0.43
44:WM:174:SER:O	44:WM:175:PRO:C	2.57	0.43
44:WM:304:LYS:HZ2	44:WM:390:ARG:HH11	1.67	0.43
45:WN:4:ILE:CG2	45:WN:131:GLN:HB3	2.49	0.43
45:WN:225:LEU:O	45:WN:228:LEU:HB2	2.18	0.43
1:6H:175:TYR:HB2	45:FB:355:ASP:OD2	2.19	0.43
2:1A:102:TYR:CE2	45:MF:80:PRO:HG3	2.52	0.43
4:1C:89:PHE:HD1	44:EM:229:ARG:NH2	2.15	0.43
20:1J:122:ARG:CD	44:IE:279:GLU:HB3	2.49	0.43
20:1J:263:PHE:CD2	44:II:282:TYR:N	2.80	0.43
10:1N:16:ILE:CG2	45:IJ:48:ASN:HB2	2.49	0.43
15:1V:167:TYR:OH	44:MK:402:ARG:NH1	2.50	0.43
27:1W:60:LEU:HD13	45:LH:227:HIS:CE1	2.53	0.43
17:2B:1:MET:HE3	45:LL:359:LYS:HB2	2.01	0.43
32:2I:22:LYS:CE	44:GG:308:ARG:HG2	2.47	0.43
32:2I:90:TYR:CE1	44:GE:220:GLU:HG2	2.53	0.43
24:2O:181:MET:HA	45:VL:276:ARG:HH11	1.83	0.43
26:2R:27:ALA:HB2	45:MJ:74:ASP:OD1	2.19	0.43
32:3I:217:ASN:HB3	44:FK:96:LYS:HZ3	1.80	0.43
32:3I:243:LYS:HB3	44:GI:299:ALA:CB	2.48	0.43
26:3R:427:LYS:HD3	45:FL:280:GLN:OE1	2.19	0.43
12:3S:20:ASN:CG	45:WN:77:ARG:HH22	2.22	0.43
16:4X:1:MET:HE2	44:LI:241:SER:HB2	2.00	0.43
37:5B:39:ARG:HD2	44:KC:264:ARG:NE	2.34	0.43
37:5D:108:ARG:N	44:NM:278:ALA:CA	2.82	0.43
37:5D:117:PRO:CG	44:NM:321:GLY:HA3	2.48	0.43
38:5E:83:LEU:HD12	44:KA:409:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:5J:67:GLN:OE1	45:NH:339:SER:HA	2.18	0.43
39:5J:110:LYS:HZ3	45:JJ:409:THR:CB	2.29	0.43
39:5K:76:SER:HB2	44:JM:402:ARG:CG	2.48	0.43
36:5S:102:LEU:HD11	36:5S:106:PHE:HE2	1.83	0.43
11:6Q:113:ARG:O	11:6Q:113:ARG:HG2	2.18	0.43
35:6R:382:TYR:O	35:6R:382:TYR:CG	2.70	0.43
35:7R:124:ASP:OD1	35:7R:124:ASP:C	2.57	0.43
42:8L:8:UNK:O	42:8L:12:UNK:N	2.51	0.43
42:8N:123:UNK:C	44:RI:370:LYS:HZ1	2.31	0.43
43:8R:84:UNK:CB	43:8R:87:UNK:HA	2.49	0.43
43:8R:338:UNK:HA	44:PA:282:TYR:CE2	2.53	0.43
44:AA:22:GLU:OE2	44:AA:83:TYR:HE2	2.02	0.43
44:AA:230:LEU:HD23	44:AA:230:LEU:HA	1.80	0.43
44:AA:312:TYR:HB2	44:AA:343:PHE:CD2	2.54	0.43
44:AC:80:THR:HA	44:AC:84:ARG:NH2	2.30	0.43
44:AC:104:ALA:HB2	44:AC:413:MET:HB2	2.00	0.43
44:AC:195:LEU:HD11	44:AC:264:ARG:CD	2.36	0.43
45:AD:252:LYS:HE2	45:AD:252:LYS:CA	2.33	0.43
44:AE:142:GLY:C	44:AE:186:ASN:HD21	2.22	0.43
44:AE:181:VAL:O	44:AE:181:VAL:HG22	2.19	0.43
45:AF:213:ARG:HH21	45:AF:297:LYS:HD3	1.84	0.43
45:AF:217:LEU:HD12	45:AF:217:LEU:O	2.19	0.43
45:AF:373:ALA:O	45:AF:375:GLN:N	2.52	0.43
44:AG:275:ILE:CD1	44:AG:368:LEU:HD11	2.48	0.43
45:AH:61:PRO:CD	45:AH:84:LEU:HB3	2.47	0.43
44:AI:8:HIS:CD2	44:AI:17:GLY:HA3	2.53	0.43
45:AJ:81:PHE:O	45:AJ:84:LEU:HD13	2.18	0.43
44:AK:344:VAL:HG11	44:AK:346:TRP:NE1	2.34	0.43
45:AL:69:GLU:OE2	45:AL:72:THR:N	2.52	0.43
45:AN:286:VAL:N	45:AN:287:PRO:CD	2.82	0.43
45:AN:375:GLN:O	45:AN:379:LYS:HG3	2.19	0.43
44:BA:79:ARG:NE	44:BA:92:LEU:HB2	2.33	0.43
44:BA:348:PRO:HB2	45:BD:384:GLN:OE1	2.19	0.43
44:BA:350:GLY:HA2	45:BD:179:VAL:CG1	2.48	0.43
45:BB:73:MET:HE3	45:BB:92:PHE:HB3	2.00	0.43
44:BC:74:VAL:HG23	44:BC:75:ILE:N	2.34	0.43
44:BC:104:ALA:HB2	44:BC:413:MET:HG2	1.99	0.43
44:BC:239:THR:O	44:BC:239:THR:CG2	2.63	0.43
45:BD:170:VAL:HG22	45:BD:171:PRO:HD2	2.01	0.43
44:BE:62:VAL:HG13	44:BE:62:VAL:O	2.18	0.43
44:BE:118:CYS:SG	44:BE:153:LEU:HD21	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:345:ILE:O	45:BF:345:ILE:CG2	2.60	0.43
45:BF:350:LYS:HG2	45:BF:351:SER:N	2.33	0.43
44:BG:407:TRP:CZ3	45:BH:255:VAL:HG22	2.53	0.43
45:BJ:116:VAL:O	45:BJ:119:VAL:HG12	2.18	0.43
44:BK:5:ILE:HG22	44:BK:7:ILE:CD1	2.45	0.43
44:BK:394:LYS:HD3	45:BL:346:PRO:HG3	1.99	0.43
44:CA:75:ILE:O	44:CA:78:VAL:HG12	2.18	0.43
44:CA:292:THR:CG2	44:CA:331:SER:HB3	2.43	0.43
45:CB:211:CYS:HB3	45:CB:217:LEU:CD1	2.46	0.43
45:CD:310:TYR:CE1	45:CD:371:SER:HB2	2.52	0.43
45:CD:328:GLU:HG3	45:CD:329:GLN:N	2.33	0.43
44:CE:9:VAL:CG2	44:CE:139:ASN:HB3	2.47	0.43
44:CE:313:MET:CE	44:CE:435:VAL:HG11	2.48	0.43
45:CH:102:ALA:HB1	45:CH:401:GLU:HB2	2.01	0.43
44:CI:103:PHE:N	44:CI:408:TYR:HE1	2.15	0.43
44:CI:287:SER:O	44:CI:290:GLU:HG2	2.19	0.43
44:CK:1:MET:SD	45:CL:70:PRO:HG2	2.59	0.43
45:CL:167:PHE:HE2	45:CL:233:MET:HG2	1.72	0.43
45:CN:313:ALA:CA	45:CN:369:GLY:HA2	2.30	0.43
44:DA:389:SER:HA	44:DA:429:GLU:OE2	2.18	0.43
45:DB:65:LEU:HD21	45:DB:85:PHE:CD2	2.52	0.43
45:DB:107:THR:HG21	45:DB:401:GLU:CD	2.38	0.43
45:DB:118:ASP:OD1	45:DB:122:LYS:NZ	2.50	0.43
44:DC:272:TYR:HD2	44:DC:275:ILE:HD11	1.84	0.43
44:DC:431:ASP:O	44:DC:435:VAL:HG23	2.19	0.43
44:DE:105:ARG:HG2	44:DE:411:GLU:OE1	2.18	0.43
44:DE:121:ARG:HA	44:DE:124:LYS:HZ3	1.82	0.43
45:DF:396:HIS:O	45:DF:399:THR:HG22	2.19	0.43
44:DI:206:ASN:HA	44:DI:209:ILE:CD1	2.48	0.43
44:DK:160:ASP:C	44:DK:161:TYR:HD1	2.22	0.43
44:DK:359:PRO:HB2	44:DK:360:PRO:CD	2.49	0.43
44:DK:396:ASP:HA	44:DK:422:ARG:NH2	2.34	0.43
45:DL:175:VAL:O	45:DL:175:VAL:HG23	2.18	0.43
44:DM:189:LEU:O	44:DM:193:SER:N	2.45	0.43
45:DN:36:TYR:CE1	45:DN:44:LEU:HG	2.54	0.43
44:EA:2:ARG:O	44:EA:51:THR:HG23	2.19	0.43
44:EA:21:TRP:HA	44:EA:21:TRP:CE3	2.53	0.43
45:EB:252:LYS:O	45:EB:256:ASN:N	2.47	0.43
45:EB:311:LEU:HA	45:EB:342:VAL:CG1	2.48	0.43
44:EC:243:ARG:HH11	44:EC:244:PHE:HE2	1.66	0.43
45:ED:268:ILE:O	45:ED:300:MET:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:331:LEU:HD12	45:ED:331:LEU:O	2.18	0.43
44:EE:30:ILE:HA	44:EE:36:MET:SD	2.58	0.43
44:EE:188:ILE:HA	44:EE:191:THR:HB	2.00	0.43
44:EE:268:MET:HB3	44:EE:380:ASN:HB2	2.01	0.43
44:EE:340:THR:HG23	44:EE:341:ILE:HG12	1.99	0.43
44:EE:363:VAL:HG22	44:EE:364:PRO:CD	2.49	0.43
44:EG:319:TYR:CZ	44:EG:375:VAL:HG11	2.53	0.43
45:EH:4:ILE:HG22	45:EH:131:GLN:HB3	2.00	0.43
45:EH:266:PHE:CD1	45:EH:370:ASN:HB2	2.54	0.43
44:EI:12:GLY:N	46:EI:501:GTP:O2A	2.52	0.43
44:EI:212:ILE:CD1	44:EI:215:ARG:HH2	2.32	0.43
44:EK:60:LYS:HZ3	44:FI:283:HIS:HE2	1.63	0.43
44:EK:171:ILE:HD12	44:EK:171:ILE:N	2.34	0.43
44:EK:254:GLU:CD	45:EL:98:GLY:HA2	2.39	0.43
44:EK:305:CYS:SG	44:EK:384:ILE:HA	2.58	0.43
45:EL:99:ASN:O	45:EL:142:GLY:HA3	2.18	0.43
45:EL:167:PHE:CD1	45:EL:200:MET:HB3	2.54	0.43
44:EM:16:VAL:HG23	44:EM:17:GLY:N	2.34	0.43
44:EM:270:SER:CB	44:EM:378:ILE:HA	2.45	0.43
44:EM:370:LYS:HB2	44:EM:370:LYS:NZ	2.33	0.43
45:EN:68:LEU:CD1	45:EN:93:GLY:HA3	2.49	0.43
45:EN:116:VAL:C	45:EN:119:VAL:HG23	2.39	0.43
45:EN:271:ALA:HB1	45:EN:272:PRO:HA	2.01	0.43
44:FA:18:ASN:O	44:FA:22:GLU:OE1	2.35	0.43
44:FA:110:ILE:HG13	44:FA:111:GLY:H	1.82	0.43
44:FA:221:ARG:HD3	45:FB:322:SER:OG	2.19	0.43
44:FA:404:PHE:CZ	45:FB:259:PRO:HG3	2.54	0.43
44:FC:62:VAL:O	44:FC:62:VAL:HG23	2.17	0.43
44:FE:33:ASP:O	44:FE:35:GLN:NE2	2.51	0.43
44:FE:207:GLU:O	44:FE:210:TYR:N	2.52	0.43
46:FE:501:GTP:H8	45:FF:246:LEU:HD21	1.84	0.43
45:FF:91:VAL:HG21	45:FF:116:VAL:HB	2.00	0.43
45:FF:198:GLU:HG2	45:FF:266:PHE:CE2	2.53	0.43
45:FF:386:THR:HG23	45:FF:387:ALA:N	2.33	0.43
45:FJ:192:LEU:CD1	45:FJ:196:ALA:HB2	2.47	0.43
44:FK:88:HIS:HB3	44:FK:91:GLN:CG	2.48	0.43
45:FL:101:TRP:HD1	45:FL:145:SER:OG	2.02	0.43
45:FL:237:THR:CG2	45:FL:237:THR:O	2.67	0.43
44:FM:145:THR:HA	44:FM:149:LEU:HD23	2.01	0.43
44:FM:288:VAL:O	44:FM:291:ILE:HG12	2.19	0.43
45:FN:50:TYR:CE2	45:FN:241:ARG:HD3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GA:100:ALA:HB3	44:GA:105:ARG:HH11	1.84	0.43
44:GA:287:SER:HB3	44:GA:290:GLU:HG2	2.00	0.43
45:GB:286:VAL:N	45:GB:287:PRO:CD	2.82	0.43
44:GC:24:PHE:HZ	44:GC:235:ILE:CG2	2.32	0.43
44:GC:106:GLY:O	44:GC:149:LEU:HD22	2.19	0.43
44:GE:304:LYS:HG3	44:GE:304:LYS:O	2.19	0.43
44:GE:326:LYS:HD2	44:GE:327:ASP:N	2.34	0.43
45:GF:99:ASN:HA	45:GF:142:GLY:H	1.84	0.43
45:GF:166:THR:OG1	45:GF:199:CYS:HA	2.19	0.43
45:GF:177:ASP:OD2	48:GF:501:GDP:H3'	2.18	0.43
44:GG:426:ALA:O	44:GG:429:GLU:HB2	2.19	0.43
45:GH:271:ALA:HB3	45:GH:365:VAL:CG2	2.49	0.43
45:GH:404:ASP:OD1	45:GH:407:GLU:HG3	2.18	0.43
44:GK:141:VAL:HG21	44:GK:187:SER:HA	1.99	0.43
44:GK:254:GLU:HG3	44:GK:257:THR:HB	2.01	0.43
44:GK:372:MET:C	44:GK:373:ARG:HG3	2.39	0.43
45:GL:318:ARG:NE	45:GL:364:ALA:HB3	2.34	0.43
44:GM:145:THR:HG22	46:GM:501:GTP:PB	2.58	0.43
45:GN:114:ASP:OD1	45:GN:114:ASP:N	2.49	0.43
44:HA:100:ALA:HB1	45:HB:252:LYS:HA	2.01	0.43
44:HA:200:VAL:CG2	44:HA:256:GLN:HG2	2.48	0.43
45:HB:225:LEU:O	45:HB:229:VAL:HG23	2.18	0.43
45:HB:267:MET:HE3	45:HB:301:CYS:CB	2.46	0.43
44:HC:286:LEU:HA	44:HC:290:GLU:OE2	2.19	0.43
45:HD:113:ILE:CD1	45:HD:150:LEU:HD22	2.49	0.43
45:HD:186:THR:HG23	45:HD:415:MET:SD	2.59	0.43
45:HD:257:LEU:HB3	45:HD:266:PHE:CZ	2.54	0.43
45:HD:275:SER:O	45:HD:279:GLN:HB2	2.18	0.43
45:HD:318:ARG:NH1	45:HD:358:PRO:HG3	2.34	0.43
44:HE:27:GLU:OE2	44:HE:244:PHE:HE2	2.02	0.43
44:HE:237:SER:HA	44:HE:320:ARG:HH11	1.83	0.43
44:HE:371:VAL:HG12	44:HE:373:ARG:H	1.83	0.43
45:HF:68:LEU:HD23	45:HF:97:ALA:CB	2.39	0.43
45:HF:262:ARG:C	45:HF:263:LEU:HD12	2.39	0.43
44:HI:224:TYR:HA	44:HI:227:LEU:HD12	2.00	0.43
44:HI:286:LEU:HG	44:HI:286:LEU:O	2.19	0.43
45:HJ:253:LEU:O	45:HJ:257:LEU:HB2	2.18	0.43
45:HJ:317:PHE:HD1	45:HJ:365:VAL:HG22	1.79	0.43
44:HK:165:SER:HA	44:HK:199:ASP:OD2	2.19	0.43
45:HL:143:THR:HG22	48:HL:502:GDP:O2B	2.18	0.43
45:HL:270:PHE:CD2	45:HL:273:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:221:THR:HG23	45:HN:223:GLY:H	1.84	0.43
45:IB:173:PRO:CG	45:IB:380:ARG:HD3	2.48	0.43
44:IC:141:VAL:HG23	44:IC:190:SER:OG	2.19	0.43
44:IE:174:SER:HB3	44:IE:207:GLU:HB2	2.00	0.43
44:IE:387:VAL:O	44:IE:391:LEU:CD1	2.67	0.43
45:IF:233:MET:O	45:IF:236:VAL:HG23	2.19	0.43
44:IG:239:THR:OG1	44:IG:243:ARG:NH2	2.50	0.43
44:II:238:LEU:O	44:II:238:LEU:HD23	2.18	0.43
45:IJ:20:PHE:O	45:IJ:24:ILE:HG12	2.18	0.43
45:IJ:41:ASP:O	45:IJ:45:GLU:HG3	2.18	0.43
44:IM:49:PHE:CE1	44:IM:61:HIS:HD2	2.36	0.43
45:IN:208:TYR:HD1	45:IN:225:LEU:HD21	1.80	0.43
44:JA:296:PHE:CD2	44:JA:335:ILE:HD12	2.54	0.43
45:JB:308:GLY:HA3	45:JB:372:THR:OG1	2.19	0.43
45:JB:345:ILE:O	45:JB:345:ILE:HG23	2.17	0.43
45:JD:36:TYR:CZ	45:JD:38:GLY:HA3	2.53	0.43
44:JE:217:LEU:HD21	44:JE:275:ILE:HG22	1.99	0.43
44:JE:258:ASN:C	44:JE:259:LEU:HD22	2.39	0.43
44:JE:263:PRO:O	44:JE:266:HIS:HD2	2.02	0.43
44:JE:265:ILE:HG23	44:JE:432:TYR:OH	2.19	0.43
45:JF:294:PHE:CD2	45:JF:333:VAL:HG21	2.54	0.43
45:JF:314:SER:CB	45:JF:350:LYS:CE	2.95	0.43
45:JF:325:GLU:O	45:JF:328:GLU:HG2	2.18	0.43
44:JG:74:VAL:HA	44:JG:77:GLU:CG	2.49	0.43
44:JG:90:GLU:HG3	44:JG:121:ARG:NH1	2.33	0.43
44:JG:143:GLY:HA3	46:JG:501:GTP:O2B	2.18	0.43
44:JG:372:MET:HG3	44:JG:373:ARG:CD	2.48	0.43
45:JH:248:SER:HA	45:JH:252:LYS:HE3	2.01	0.43
44:JK:254:GLU:O	44:JK:255:PHE:HD1	2.01	0.43
45:JL:317:PHE:HD2	45:JL:321:MET:HE1	1.83	0.43
44:JM:109:THR:HG23	44:JM:110:ILE:H	1.82	0.43
44:JM:239:THR:C	44:JM:243:ARG:HH11	2.22	0.43
45:JN:65:LEU:HB3	45:JN:73:MET:SD	2.59	0.43
45:JN:68:LEU:HD12	45:JN:97:ALA:HB2	2.00	0.43
45:JN:265:PHE:HB3	45:JN:374:ILE:HD13	2.01	0.43
44:KA:269:LEU:CD1	44:KA:303:ALA:HB3	2.47	0.43
45:KB:7:ILE:HD11	45:KB:120:VAL:HG21	2.01	0.43
45:KB:183:TYR:CD1	45:KB:388:MET:HE2	2.54	0.43
44:KC:16:VAL:HG13	44:KC:17:GLY:N	2.33	0.43
44:KC:428:LEU:HA	44:KC:431:ASP:HB2	2.00	0.43
45:KD:36:TYR:CE1	45:KD:44:LEU:HG	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:263:LEU:CG	45:KD:422:TYR:HE1	2.30	0.43
44:KE:195:LEU:CD2	44:KE:428:LEU:HD11	2.45	0.43
44:KG:325:PRO:HG2	45:KJ:222:TYR:CE2	2.53	0.43
44:KG:344:VAL:HG22	44:KG:345:ASP:N	2.33	0.43
44:KG:424:ASP:O	44:KG:428:LEU:HD13	2.18	0.43
45:KH:68:LEU:HD12	45:KH:143:THR:OG1	2.18	0.43
45:KH:318:ARG:HG2	45:KH:318:ARG:HH11	1.83	0.43
45:KH:331:LEU:O	45:KH:334:GLN:HG2	2.19	0.43
44:KI:67:PHE:C	44:KI:68:LEU:HD22	2.39	0.43
44:KI:265:ILE:HG12	44:KI:432:TYR:HE1	1.84	0.43
44:KI:287:SER:O	44:KI:290:GLU:HG2	2.19	0.43
45:KJ:350:LYS:CG	45:KJ:351:SER:H	2.29	0.43
44:KM:177:VAL:HG22	45:KN:327:ASP:HB3	2.01	0.43
44:KM:291:ILE:HD13	44:KM:373:ARG:HB3	1.99	0.43
45:KN:106:TYR:HD2	45:KN:401:GLU:O	2.01	0.43
45:KN:304:ASP:OD2	45:KN:306:ARG:NE	2.49	0.43
44:LA:217:LEU:HB3	44:LA:219:ILE:CD1	2.49	0.43
45:LB:227:HIS:HA	45:LB:230:SER:HB2	2.00	0.43
45:LB:263:LEU:CD1	45:LB:422:TYR:CD1	3.01	0.43
45:LF:170:VAL:HG23	45:LF:171:PRO:HD2	1.99	0.43
44:LG:145:THR:HG23	44:LG:146:GLY:N	2.34	0.43
45:LH:42:LEU:HD23	45:LH:42:LEU:HA	1.85	0.43
44:LI:51:THR:HG21	44:LI:243:ARG:HG2	2.00	0.43
44:LK:55:GLU:OE1	44:LK:56:THR:N	2.52	0.43
44:LM:56:THR:HG23	44:LM:58:ALA:N	2.34	0.43
44:LM:169:PHE:CG	44:LM:202:VAL:HG21	2.54	0.43
44:LM:296:PHE:CE2	44:LM:335:ILE:HG21	2.54	0.43
44:LM:407:TRP:HH2	45:LN:258:ILE:HD12	1.83	0.43
44:LM:428:LEU:O	44:LM:431:ASP:HB2	2.19	0.43
45:LN:267:MET:HE2	45:LN:301:CYS:CB	2.49	0.43
44:MA:223:THR:CG2	44:MA:224:TYR:N	2.82	0.43
45:MB:32:PRO:HG3	45:MB:81:PHE:CZ	2.53	0.43
44:MC:104:ALA:HB2	44:MC:413:MET:HE3	2.00	0.43
44:MC:110:ILE:HG23	44:MC:111:GLY:N	2.33	0.43
45:MD:173:PRO:HG3	45:MD:380:ARG:HD3	2.00	0.43
44:ME:56:THR:HG23	44:ME:58:ALA:H	1.82	0.43
44:ME:80:THR:HG22	44:ME:80:THR:O	2.17	0.43
44:ME:177:VAL:HG13	45:MF:327:ASP:HB3	2.01	0.43
45:MF:117:LEU:HA	45:MF:120:VAL:HB	2.01	0.43
45:MF:321:MET:C	45:MF:322:SER:HA	2.39	0.43
44:MG:36:MET:HB3	44:MG:36:MET:HE2	1.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MH:154:LYS:HB2	45:MH:154:LYS:HE2	1.85	0.43
45:MH:226:ASN:ND2	48:MH:501:GDP:HN1	2.16	0.43
44:MI:115:VAL:O	44:MI:119:LEU:HD23	2.18	0.43
45:MJ:236:VAL:HG22	45:MJ:250:LEU:CD1	2.48	0.43
44:MK:135:PHE:HZ	44:MK:161:TYR:CE2	2.37	0.43
44:MM:6:SER:HA	44:MM:136:LEU:O	2.19	0.43
44:MM:209:ILE:HG22	44:MM:227:LEU:CD2	2.48	0.43
45:MN:106:TYR:CE2	45:MN:403:MET:HE1	2.53	0.43
45:MN:139:LEU:CD2	45:MN:188:SER:HB2	2.48	0.43
44:NA:272:TYR:HA	44:NA:376:CYS:HA	1.99	0.43
45:NB:65:LEU:HD11	45:NB:85:PHE:CD2	2.54	0.43
44:NC:329:ASN:CG	45:NF:175:VAL:HG12	2.39	0.43
45:ND:44:LEU:HD22	45:ND:47:ILE:CD1	2.45	0.43
45:ND:114:ASP:HA	45:ND:117:LEU:CD1	2.37	0.43
45:ND:130:LEU:HD21	45:ND:133:PHE:CZ	2.54	0.43
45:ND:213:ARG:HD2	45:ND:214:THR:HB	2.00	0.43
44:NE:311:LYS:N	44:NE:382:THR:OG1	2.51	0.43
45:NF:136:THR:CG2	45:NF:167:PHE:HB2	2.29	0.43
45:NF:385:PHE:CE2	45:NF:412:GLU:HG2	2.53	0.43
44:NG:75:ILE:O	44:NG:78:VAL:HB	2.19	0.43
44:NG:250:VAL:O	44:NG:250:VAL:HG23	2.18	0.43
44:NG:313:MET:CE	44:NG:346:TRP:CZ3	3.01	0.43
45:NH:86:ARG:NE	45:NH:86:ARG:HA	2.33	0.43
45:NH:101:TRP:CZ2	45:NH:187:LEU:HB3	2.53	0.43
45:NH:166:THR:HG23	45:NH:199:CYS:SG	2.59	0.43
45:NH:324:LYS:O	45:NH:328:GLU:HG2	2.18	0.43
45:NH:377:MET:O	45:NH:380:ARG:HG3	2.18	0.43
44:NK:76:ASP:O	44:NK:79:ARG:N	2.50	0.43
44:NK:216:ASN:HB3	44:NK:275:ILE:HG23	2.00	0.43
44:NK:323:VAL:HG23	44:NK:355:ILE:HG23	2.01	0.43
45:NN:130:LEU:HD11	45:NN:133:PHE:HE1	1.84	0.43
45:NN:172:SER:OG	45:NN:205:GLU:HG2	2.19	0.43
44:OA:4:VAL:CG2	44:OA:252:ILE:HD13	2.48	0.43
44:OA:20:CYS:O	44:OA:24:PHE:N	2.38	0.43
45:OB:36:TYR:OH	45:OB:40:SER:O	2.35	0.43
44:OC:62:VAL:HG13	44:OC:62:VAL:O	2.19	0.43
44:OC:195:LEU:HD11	44:OC:428:LEU:HD13	2.00	0.43
44:OC:209:ILE:HD11	44:OC:302:MET:SD	2.58	0.43
44:OC:311:LYS:CD	44:OC:342:GLN:HG3	2.43	0.43
45:OD:28:HIS:O	45:OD:43:GLN:HG2	2.19	0.43
45:OD:60:VAL:CG1	45:OD:86:ARG:HE	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:27:GLU:CD	44:OE:243:ARG:HH12	2.22	0.43
44:OE:182:VAL:HG21	44:OE:408:TYR:OH	2.19	0.43
44:OE:238:LEU:HG	44:OE:255:PHE:HE2	1.81	0.43
44:OE:326:LYS:HG3	44:OE:327:ASP:N	2.33	0.43
44:OG:183:GLU:CG	44:OG:184:PRO:HD3	2.46	0.43
44:OG:311:LYS:HE3	44:OG:342:GLN:HE21	1.82	0.43
45:OH:2:ARG:CZ	45:OH:240:LEU:HA	2.49	0.43
44:OI:169:PHE:HB3	44:OI:204:LEU:HD12	2.01	0.43
44:OI:354:GLY:C	44:OI:355:ILE:HD13	2.38	0.43
45:OJ:251:ARG:O	45:OJ:254:ALA:HB3	2.19	0.43
44:OK:1:MET:O	44:OK:131:GLY:HA3	2.19	0.43
44:OK:70:LEU:HD21	44:OK:149:LEU:CD2	2.49	0.43
44:OK:404:PHE:CZ	45:OL:259:PRO:HA	2.54	0.43
45:OL:299:MET:SD	45:OL:367:PHE:HD2	2.42	0.43
45:OL:302:ALA:HB3	45:OL:377:MET:CE	2.49	0.43
45:OL:330:MET:HE2	45:OL:349:ILE:HG21	2.00	0.43
44:OM:3:GLU:HB3	44:OM:64:ARG:NH1	2.34	0.43
44:OM:385:ALA:HA	44:OM:388:PHE:HD2	1.82	0.43
44:PC:26:LEU:CD2	44:PC:364:PRO:HD3	2.49	0.43
44:PC:176:GLN:NE2	44:PC:207:GLU:OE2	2.51	0.43
45:PD:267:MET:O	45:PD:267:MET:HG2	2.18	0.43
44:PE:288:VAL:HG22	44:PE:331:SER:OG	2.19	0.43
44:PG:231:ILE:O	44:PG:234:VAL:HB	2.18	0.43
44:PG:435:VAL:O	44:PG:435:VAL:CG1	2.65	0.43
45:PH:4:ILE:CG2	45:PH:131:GLN:HB3	2.49	0.43
44:PI:96:LYS:HB3	45:PJ:1:MET:HE2	2.01	0.43
44:PI:261:PRO:HB2	44:PI:262:TYR:H	1.61	0.43
45:PJ:191:GLN:HA	45:PJ:194:GLU:OE2	2.19	0.43
45:PJ:239:CYS:HA	45:PJ:354:CYS:SG	2.59	0.43
44:PK:317:MET:HB2	44:PK:376:CYS:O	2.18	0.43
45:PL:286:VAL:HB	45:PL:325:GLU:CD	2.38	0.43
45:PL:377:MET:O	45:PL:381:VAL:HG23	2.18	0.43
44:PM:155:GLU:HG2	44:PM:197:HIS:CD2	2.53	0.43
44:QA:183:GLU:N	44:QA:184:PRO:CD	2.80	0.43
44:QA:384:ILE:O	44:QA:387:VAL:HG12	2.18	0.43
44:QC:229:ARG:HA	44:QC:229:ARG:NE	2.34	0.43
44:QC:231:ILE:O	44:QC:235:ILE:HG12	2.19	0.43
45:QF:151:LEU:HD23	45:QF:155:VAL:HG23	2.01	0.43
44:QG:420:GLU:HA	44:QG:423:GLU:CD	2.39	0.43
45:QH:251:ARG:HA	45:QH:254:ALA:CB	2.48	0.43
45:QH:286:VAL:N	45:QH:287:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:322:SER:OG	45:QH:325:GLU:HB2	2.19	0.43
45:QH:396:HIS:CE1	45:QH:397:TRP:CD1	3.06	0.43
44:QI:281:ALA:O	44:QI:286:LEU:HD11	2.19	0.43
44:QK:161:TYR:HD2	44:QK:164:LYS:HE3	1.83	0.43
44:QK:200:VAL:CG2	44:QK:256:GLN:HB3	2.48	0.43
44:QK:257:THR:HG22	45:QL:397:TRP:CD2	2.54	0.43
45:QL:3:GLU:OE2	45:QL:127:CYS:HB2	2.19	0.43
45:QL:348:ASN:HA	44:QM:181:VAL:HG11	2.01	0.43
45:QN:211:CYS:HA	45:QN:215:LEU:CB	2.47	0.43
45:QN:376:GLU:HA	45:QN:379:LYS:NZ	2.33	0.43
45:RB:117:LEU:CD2	45:RB:154:LYS:HG2	2.48	0.43
45:RB:319:GLY:N	45:RB:354:CYS:O	2.52	0.43
45:RD:18:ALA:O	45:RD:22:GLU:HG3	2.19	0.43
44:RE:268:MET:HG3	44:RE:380:ASN:CA	2.49	0.43
45:RF:138:SER:HA	45:RF:169:VAL:HB	2.00	0.43
44:RG:215:ARG:CZ	44:RG:299:ALA:HB1	2.48	0.43
44:RG:264:ARG:HH22	44:RG:428:LEU:HD12	1.82	0.43
45:RH:183:TYR:CG	45:RH:388:MET:HE3	2.54	0.43
45:RH:229:VAL:O	45:RH:233:MET:HG3	2.19	0.43
44:RI:32:PRO:CD	44:RI:33:ASP:N	2.79	0.43
44:RI:183:GLU:N	44:RI:183:GLU:OE1	2.46	0.43
44:RI:260:VAL:HG13	44:RI:265:ILE:O	2.18	0.43
44:RI:387:VAL:HG23	44:RI:388:PHE:N	2.34	0.43
44:RI:437:ILE:O	44:RI:437:ILE:HG13	2.18	0.43
45:RJ:3:GLU:HB2	45:RJ:62:ARG:NH1	2.33	0.43
45:RJ:54:ALA:HB1	45:SJ:282:ARG:C	2.38	0.43
45:RJ:261:PRO:HD3	44:RK:406:HIS:CD2	2.54	0.43
45:RJ:287:PRO:HD3	45:RJ:325:GLU:OE1	2.19	0.43
44:RK:237:SER:HA	44:RK:320:ARG:HH11	1.84	0.43
44:RM:11:GLN:HG2	46:RM:501:GTP:O2A	2.13	0.43
44:RM:186:ASN:OD1	44:RM:187:SER:N	2.52	0.43
44:RM:220:GLU:C	44:RM:222:PRO:HD3	2.39	0.43
45:RN:97:ALA:HB3	45:RN:143:THR:N	2.34	0.43
45:RN:149:THR:HG23	45:RN:150:LEU:N	2.33	0.43
45:RN:207:LEU:HB2	45:RN:225:LEU:HD22	1.99	0.43
45:RN:318:ARG:HH11	45:RN:358:PRO:HD3	1.83	0.43
44:SA:250:VAL:CG2	44:SA:352:LYS:HE3	2.49	0.43
45:SB:23:VAL:HG21	45:SB:231:ALA:N	2.34	0.43
45:SB:134:GLN:HB2	45:SB:167:PHE:HE2	1.77	0.43
45:SB:135:ILE:O	45:SB:167:PHE:CD2	2.72	0.43
44:SC:431:ASP:O	44:SC:435:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:439:THR:HG21	45:SD:390:ARG:HD2	1.99	0.43
45:SD:358:PRO:HB2	45:SD:361:LEU:HB2	2.00	0.43
45:SF:42:LEU:CD2	45:SF:356:ILE:HD11	2.47	0.43
45:SH:99:ASN:HA	45:SH:142:GLY:N	2.33	0.43
45:SH:139:LEU:HD13	45:SH:168:SER:HB3	2.00	0.43
45:SH:248:SER:CB	45:SH:252:LYS:HD2	2.49	0.43
45:SH:318:ARG:HB3	45:SH:358:PRO:HD3	2.00	0.43
44:SI:155:GLU:HG2	44:SI:197:HIS:NE2	2.34	0.43
45:SJ:256:ASN:HA	44:SK:181:VAL:CG2	2.49	0.43
45:SL:21:TRP:HA	45:SL:24:ILE:HB	2.01	0.43
45:SL:316:LEU:N	45:SL:366:THR:O	2.36	0.43
44:SM:295:ALA:HB2	44:SM:375:VAL:HG13	1.97	0.43
45:SN:287:PRO:O	45:SN:290:THR:HG22	2.19	0.43
45:SN:391:ARG:HD2	45:SN:391:ARG:HA	1.84	0.43
44:TA:317:MET:HB3	44:TA:375:VAL:CG2	2.49	0.43
44:TA:422:ARG:HH12	44:TA:426:ALA:HB2	1.84	0.43
45:TB:27:GLU:HA	45:TB:359:LYS:HE2	2.01	0.43
45:TB:68:LEU:HD23	45:TB:97:ALA:N	2.34	0.43
45:TD:7:ILE:O	45:TD:135:ILE:HA	2.19	0.43
45:TD:81:PHE:O	45:TD:84:LEU:HD13	2.19	0.43
45:TD:181:GLU:HB2	45:TD:182:PRO:HD3	2.00	0.43
45:TD:292:GLN:HG3	45:TD:298:ASN:OD1	2.18	0.43
45:TD:396:HIS:NE2	45:TD:397:TRP:CD1	2.87	0.43
44:TE:71:GLU:CD	44:TE:73:THR:H	2.21	0.43
44:TE:276:ILE:HD13	44:TE:281:ALA:O	2.18	0.43
44:TE:313:MET:HE2	44:TE:380:ASN:CB	2.49	0.43
45:TF:27:GLU:OE2	45:TF:241:ARG:NH2	2.52	0.43
45:TF:166:THR:O	45:TF:167:PHE:HD1	2.01	0.43
45:TH:116:VAL:HG22	45:TH:120:VAL:HG11	2.00	0.43
44:TI:423:GLU:O	44:TI:426:ALA:HB3	2.19	0.43
45:TJ:110:ALA:O	45:TJ:113:ILE:HG22	2.18	0.43
45:TL:170:VAL:HG23	45:TL:171:PRO:HD2	1.99	0.43
45:TL:246:LEU:HD23	45:TL:246:LEU:C	2.38	0.43
44:TM:18:ASN:OD1	44:TM:78:VAL:HG21	2.19	0.43
44:TM:252:ILE:HG23	44:TM:255:PHE:CE2	2.54	0.43
44:TM:316:SER:CB	44:TM:378:ILE:HB	2.32	0.43
44:UA:183:GLU:HG2	44:UA:184:PRO:N	2.32	0.43
45:UB:310:TYR:HB2	45:UB:341:PHE:CD1	2.52	0.43
44:UC:87:PHE:HB3	44:UC:92:LEU:HD11	2.01	0.43
44:UC:114:ILE:HD12	44:UC:117:LEU:HD22	2.01	0.43
44:UC:115:VAL:HG21	44:UC:152:LEU:CG	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UC:244:PHE:CE2	44:UC:358:GLN:HG2	2.54	0.43
45:UD:51:TYR:C	45:UD:62:ARG:HH12	2.22	0.43
45:UD:325:GLU:HB2	44:UE:221:ARG:HD3	2.01	0.43
44:UE:119:LEU:HD21	44:UE:160:ASP:OD2	2.19	0.43
44:UE:167:LEU:HG	44:UE:200:VAL:HG12	2.00	0.43
45:UF:403:MET:CE	45:UF:407:GLU:HB2	2.47	0.43
44:UG:204:LEU:HD13	44:UG:231:ILE:HD13	2.01	0.43
44:UG:347:CYS:HA	45:UH:388:MET:HE1	2.01	0.43
45:UH:242:PHE:CG	45:UH:356:ILE:HG13	2.53	0.43
45:UH:260:PHE:HB3	45:UH:261:PRO:HD2	1.99	0.43
45:UH:262:ARG:NH1	45:UH:263:LEU:HD11	2.34	0.43
45:UH:374:ILE:O	45:UH:377:MET:HG3	2.19	0.43
44:UI:137:VAL:O	44:UI:137:VAL:HG13	2.19	0.43
44:UI:209:ILE:CG2	44:UI:227:LEU:HB3	2.47	0.43
45:UJ:68:LEU:HD23	45:UJ:97:ALA:H	1.83	0.43
44:UK:103:PHE:HB3	44:UK:408:TYR:CE2	2.54	0.43
44:UK:183:GLU:HA	44:UK:186:ASN:ND2	2.33	0.43
45:UL:3:GLU:O	45:UL:131:GLN:N	2.48	0.43
45:UL:178:THR:O	45:UL:181:GLU:HG3	2.19	0.43
45:UL:318:ARG:HB3	45:UL:358:PRO:HD3	2.00	0.43
45:UL:377:MET:O	45:UL:381:VAL:HG23	2.19	0.43
44:UM:203:MET:HE3	44:UM:267:PHE:HD2	1.84	0.43
44:UM:384:ILE:CD1	44:UM:387:VAL:HG21	2.48	0.43
45:UN:241:ARG:HH11	45:UN:241:ARG:CB	2.29	0.43
45:UN:276:ARG:HA	45:UN:276:ARG:HD3	1.90	0.43
45:UN:377:MET:O	45:UN:380:ARG:HG2	2.19	0.43
44:VA:7:ILE:HB	44:VA:137:VAL:CB	2.48	0.43
44:VA:73:THR:CB	45:VB:247:ASN:HD22	2.32	0.43
44:VA:203:MET:HB3	44:VA:303:ALA:HB2	2.00	0.43
44:VA:231:ILE:O	44:VA:234:VAL:HB	2.18	0.43
44:VC:138:PHE:HE1	44:VC:169:PHE:CD2	2.37	0.43
44:VC:138:PHE:HE1	44:VC:169:PHE:HD2	1.66	0.43
44:VC:404:PHE:CE1	45:VD:259:PRO:HB3	2.54	0.43
44:VE:101:ASN:OD1	45:VF:252:LYS:HG3	2.18	0.43
44:VE:251:ASP:OD2	44:VE:253:THR:HG22	2.17	0.43
44:VE:256:GLN:HB2	44:VE:260:VAL:HG21	1.99	0.43
45:VF:175:VAL:O	45:VF:175:VAL:HG23	2.18	0.43
45:VF:330:MET:O	45:VF:333:VAL:HG12	2.19	0.43
44:VG:96:LYS:HD3	45:VH:1:MET:HE1	2.01	0.43
44:VG:99:ALA:CB	44:VG:145:THR:HG22	2.48	0.43
45:VH:183:TYR:OH	45:VH:388:MET:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:52:PHE:CZ	44:VI:239:THR:HG21	2.52	0.43
45:VJ:2:ARG:CZ	45:VJ:240:LEU:HD12	2.49	0.43
45:VJ:4:ILE:CG1	45:VJ:50:TYR:HE1	2.32	0.43
44:VK:3:GLU:HG2	44:VK:129:CYS:CB	2.49	0.43
44:VK:142:GLY:C	46:VK:501:GTP:H5'	2.39	0.43
45:VL:100:ASN:HB3	45:VL:103:LYS:CB	2.49	0.43
45:VL:217:LEU:HD11	45:VL:220:PRO:HA	1.99	0.43
44:VM:5:ILE:HD12	44:VM:135:PHE:CE1	2.53	0.43
44:VM:11:GLN:HB3	46:VM:501:GTP:O2A	2.18	0.43
44:VM:101:ASN:CA	44:VM:144:GLY:HA3	2.48	0.43
45:VN:143:THR:HG23	45:VN:144:GLY:N	2.33	0.43
45:VN:392:LYS:HD2	45:VN:392:LYS:N	2.34	0.43
44:WA:404:PHE:HZ	45:WB:345:ILE:HD12	1.84	0.43
45:WB:238:CYS:SG	45:WB:239:CYS:N	2.91	0.43
44:WC:67:PHE:O	44:WC:68:LEU:HD12	2.19	0.43
44:WE:372:MET:O	44:WE:373:ARG:HG2	2.18	0.43
44:WG:97:GLU:CG	44:WG:105:ARG:HH12	2.31	0.43
44:WI:6:SER:O	44:WI:7:ILE:HD13	2.19	0.43
44:WI:183:GLU:N	44:WI:183:GLU:OE1	2.47	0.43
44:WI:203:MET:HE2	44:WI:204:LEU:N	2.34	0.43
44:WI:407:TRP:HZ3	45:WJ:255:VAL:CA	2.31	0.43
45:WJ:101:TRP:HD1	45:WJ:145:SER:OG	2.02	0.43
44:WK:6:SER:C	44:WK:7:ILE:HD13	2.38	0.43
45:WL:382:ALA:HA	45:WL:415:MET:CE	2.49	0.43
44:WM:311:LYS:O	44:WM:382:THR:N	2.46	0.43
45:WN:187:LEU:HD23	45:WN:411:ALA:CB	2.47	0.43
45:WN:405:GLU:HA	45:WN:408:PHE:HB2	2.01	0.43
2:0A:150:LEU:HD11	35:7R:89:ASP:OD2	2.18	0.43
7:0F:31:HIS:HA	44:DE:84:ARG:NH2	2.32	0.43
7:0F:80:TYR:HE1	44:EE:18:ASN:HD21	1.58	0.43
19:1I:220:TRP:CD2	44:LE:357:TYR:HE2	2.36	0.43
21:1K:135:ARG:NH2	45:GF:31:ASP:OD1	2.37	0.43
26:1R:29:LYS:HZ3	44:MC:46:ASP:N	2.17	0.43
12:1S:152:SER:HB3	45:WF:108:GLU:OE2	2.19	0.43
12:1S:257:PRO:HG2	45:AF:417:ASP:OD2	2.18	0.43
29:2F:84:TRP:O	44:GE:96:LYS:HG3	2.17	0.43
32:2I:96:TRP:HB3	45:FF:125:GLU:OE1	2.17	0.43
22:2L:408:LEU:HD12	45:CN:363:MET:CE	2.48	0.43
24:2O:261:LEU:HA	44:VG:282:TYR:CD2	2.53	0.43
26:3R:143:ASN:CG	45:BN:219:THR:HG1	2.21	0.43
14:3U:258:ASP:OD2	45:WN:37:HIS:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:4C:8:LEU:CB	35:6R:4:ASN:HD22	2.32	0.43
37:5C:40:VAL:HG11	44:KG:431:ASP:HB3	2.00	0.43
37:5D:40:VAL:O	44:KK:261:PRO:HD2	2.18	0.43
37:5D:55:ALA:CB	44:KK:345:ASP:HB3	2.47	0.43
37:5D:75:TYR:CE2	45:NN:357:PRO:HD3	2.54	0.43
37:5D:107:TYR:CD1	44:NM:277:SER:CB	2.96	0.43
38:5G:97:ARG:CZ	45:KJ:262:ARG:HH12	2.32	0.43
38:5G:167:LEU:CD2	38:5G:169:PRO:HG3	2.49	0.43
38:5G:200:LEU:CD1	44:LK:396:ASP:HB3	2.48	0.43
38:5H:22:LYS:HG3	38:5H:29:LYS:NZ	2.32	0.43
35:5R:256:LEU:HD13	35:5R:356:THR:HG23	1.99	0.43
35:5R:260:VAL:O	35:5R:274:TYR:HB2	2.19	0.43
35:5R:537:LYS:O	35:5R:540:THR:HG23	2.18	0.43
36:5S:227:LYS:HG2	36:5S:228:TYR:CD1	2.53	0.43
41:6G:141:VAL:HB	44:VG:308:ARG:NH1	2.29	0.43
41:6G:151:ILE:HG23	41:6G:152:GLU:N	2.34	0.43
41:6G:184:LYS:HG3	41:6G:184:LYS:O	2.18	0.43
41:6G:214:LEU:HD11	44:VC:333:ALA:HB2	2.01	0.43
11:6Q:6:PHE:CE2	11:6Q:8:SER:HB2	2.54	0.43
11:6Q:71:ILE:HG22	11:6Q:73:LEU:N	2.24	0.43
35:6R:341:ARG:HH22	35:6R:344:ASN:HD22	1.66	0.43
35:7R:368:GLN:HE22	35:7R:370:PRO:HB3	1.84	0.43
35:7R:401:VAL:HG13	45:EB:276:ARG:CG	2.49	0.43
35:7R:497:GLN:NE2	35:7R:499:GLY:O	2.52	0.43
44:AA:265:ILE:HG23	44:AA:432:TYR:HE1	1.83	0.43
44:AA:284:GLU:O	44:AA:286:LEU:HD23	2.19	0.43
44:AA:317:MET:HG2	44:AA:319:TYR:HE1	1.84	0.43
45:AD:193:VAL:HA	45:AD:264:HIS:NE2	2.34	0.43
45:AD:318:ARG:HD2	45:AD:358:PRO:CD	2.49	0.43
44:AE:139:ASN:OD1	44:AE:139:ASN:C	2.57	0.43
44:AE:194:LEU:HD23	44:AE:194:LEU:O	2.18	0.43
44:AG:3:GLU:HG3	44:AG:129:CYS:SG	2.59	0.43
45:AH:207:LEU:HB3	45:AH:225:LEU:HD22	1.99	0.43
44:AI:260:VAL:O	44:AI:260:VAL:HG23	2.19	0.43
45:AJ:248:SER:CA	45:AJ:252:LYS:HD2	2.45	0.43
44:AK:340:THR:HG23	44:AK:341:ILE:HG13	2.01	0.43
45:AL:67:ASP:HB3	45:AL:72:THR:HG21	2.01	0.43
45:AL:174:LYS:HZ2	45:AL:175:VAL:HG12	1.84	0.43
45:AL:215:LEU:O	45:AL:216:LYS:HB2	2.18	0.43
44:AM:331:SER:O	44:AM:334:THR:OG1	2.28	0.43
45:AN:28:HIS:C	45:AN:43:GLN:HE21	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:118:CYS:O	44:BA:122:ILE:HG12	2.19	0.43
44:BE:340:THR:HG23	44:BE:341:ILE:HG13	2.00	0.43
45:BF:293:MET:CG	45:BF:367:PHE:HB2	2.49	0.43
44:BG:102:ASN:HB3	44:BG:105:ARG:CG	2.49	0.43
44:BG:296:PHE:HE1	44:BG:377:MET:HE3	1.84	0.43
44:BG:396:ASP:OD2	44:BG:422:ARG:NH2	2.52	0.43
45:BH:355:ASP:C	45:BH:356:ILE:HD13	2.39	0.43
45:BJ:221:THR:HG23	45:BJ:223:GLY:H	1.83	0.43
44:BK:200:VAL:HG13	44:BK:268:MET:HE2	2.01	0.43
44:BM:71:GLU:HG3	45:BN:247:ASN:HD21	1.83	0.43
44:BM:169:PHE:CE1	44:BM:202:VAL:HG23	2.54	0.43
44:BM:387:VAL:HG12	44:BM:390:ARG:HH11	1.83	0.43
45:BN:301:CYS:HB3	45:BN:377:MET:HE1	2.01	0.43
45:BN:362:LYS:O	45:BN:363:MET:HG3	2.19	0.43
44:CA:316:SER:O	44:CA:378:ILE:N	2.42	0.43
45:CB:131:GLN:HG3	45:CB:163:ILE:HD11	2.00	0.43
44:CC:203:MET:CE	44:CC:203:MET:HA	2.48	0.43
44:CC:264:ARG:HG2	44:CC:431:ASP:OD2	2.18	0.43
45:CD:415:MET:O	45:CD:419:VAL:HG23	2.19	0.43
44:CE:23:LEU:HD22	44:CE:233:GLN:HA	2.01	0.43
44:CE:236:SER:O	44:CE:240:ALA:HB2	2.19	0.43
44:CE:256:GLN:O	44:CE:260:VAL:HG22	2.18	0.43
44:CE:424:ASP:O	44:CE:428:LEU:N	2.43	0.43
45:CF:117:LEU:HA	45:CF:120:VAL:CG1	2.49	0.43
45:CH:25:SER:HB2	45:CH:81:PHE:HE2	1.84	0.43
45:CH:61:PRO:HG2	45:CH:84:LEU:HB3	2.01	0.43
45:CH:183:TYR:HE2	45:CH:394:PHE:HB2	1.84	0.43
44:CI:22:GLU:HG3	44:CI:83:TYR:CE2	2.53	0.43
45:CJ:145:SER:O	45:CJ:149:THR:HG23	2.19	0.43
45:CJ:325:GLU:O	45:CJ:328:GLU:HG2	2.19	0.43
45:CJ:391:ARG:HG3	45:CJ:391:ARG:HH11	1.83	0.43
44:CK:32:PRO:HB3	44:CK:83:TYR:HE1	1.82	0.43
44:CK:303:ALA:O	44:CK:305:CYS:N	2.51	0.43
45:CL:42:LEU:HD12	45:CL:42:LEU:H	1.83	0.43
45:CL:170:VAL:HG21	45:CL:377:MET:HG2	2.00	0.43
45:CL:239:CYS:SG	45:CL:316:LEU:HD23	2.58	0.43
45:CL:252:LYS:HG3	44:CM:101:ASN:HD21	1.83	0.43
45:CL:345:ILE:O	45:CL:345:ILE:HG23	2.19	0.43
44:CM:183:GLU:HG2	44:CM:184:PRO:CD	2.48	0.43
45:CN:47:ILE:HD12	45:CN:47:ILE:N	2.34	0.43
45:CN:139:LEU:HD13	45:CN:168:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CN:342:VAL:HG22	45:CN:343:GLU:N	2.34	0.43
45:CN:423:GLN:O	45:CN:426:GLN:HB3	2.18	0.43
45:DB:316:LEU:HB2	45:DB:366:THR:HB	2.00	0.43
45:DB:345:ILE:HD12	44:DC:404:PHE:CE1	2.54	0.43
44:DC:344:VAL:HG11	44:DC:346:TRP:CH2	2.53	0.43
44:DC:344:VAL:HG22	44:DC:345:ASP:N	2.33	0.43
45:DD:344:TRP:HZ3	44:DE:403:ALA:HB2	1.84	0.43
44:DE:137:VAL:HG13	44:DE:168:GLY:HA2	2.01	0.43
45:DF:24:ILE:HD11	45:DF:234:SER:CB	2.49	0.43
45:DF:180:VAL:HG22	45:DF:180:VAL:O	2.19	0.43
45:DF:217:LEU:HD11	45:DF:220:PRO:CB	2.48	0.43
44:DG:175:PRO:HG2	44:DG:304:LYS:HB3	2.01	0.43
44:DI:97:GLU:CG	44:DI:105:ARG:HH22	2.32	0.43
44:DI:348:PRO:CD	45:DJ:388:MET:HE1	2.49	0.43
44:DI:388:PHE:O	44:DI:392:ASP:N	2.45	0.43
45:DJ:309:ARG:NH2	45:DJ:426:GLN:O	2.52	0.43
45:DJ:322:SER:O	45:DJ:326:VAL:HG23	2.18	0.43
44:DK:413:MET:CE	44:DK:418:PHE:HE2	2.32	0.43
45:DL:143:THR:HG23	45:DL:144:GLY:N	2.34	0.43
45:DL:170:VAL:CG2	45:DL:171:PRO:HD2	2.49	0.43
45:DL:262:ARG:NH1	45:DL:421:GLU:OE1	2.51	0.43
45:DL:313:ALA:HB3	45:DL:349:ILE:CA	2.45	0.43
44:DM:172:TYR:HB2	44:DM:203:MET:CE	2.46	0.43
44:DM:268:MET:HB2	44:DM:380:ASN:HA	2.01	0.43
44:DM:274:PRO:CD	44:DM:374:ALA:HA	2.45	0.43
45:DN:206:ALA:HB3	45:DN:300:MET:O	2.19	0.43
44:EA:64:ARG:O	44:EA:64:ARG:CD	2.60	0.43
44:EA:312:TYR:HA	44:EA:381:SER:HB3	1.98	0.43
45:EB:317:PHE:CG	45:EB:365:VAL:HG22	2.54	0.43
45:EB:334:GLN:HB2	45:EB:349:ILE:HD11	2.01	0.43
44:EC:333:ALA:HB2	45:ED:174:LYS:HE2	2.01	0.43
45:ED:105:HIS:O	45:ED:106:TYR:HD1	2.02	0.43
45:EF:344:TRP:HE1	44:EG:401:LYS:HZ1	1.66	0.43
44:EG:65:ALA:HB3	44:EG:91:GLN:CD	2.38	0.43
44:EG:115:VAL:CG2	44:EG:152:LEU:HD23	2.39	0.43
44:EI:296:PHE:CE2	44:EI:335:ILE:HG21	2.50	0.43
45:EJ:406:MET:O	45:EJ:410:GLU:HG3	2.19	0.43
44:EK:268:MET:CB	44:EK:380:ASN:CA	2.96	0.43
44:EK:332:ILE:HG23	44:EK:351:PHE:CD2	2.53	0.43
45:EN:116:VAL:C	45:EN:119:VAL:CG2	2.87	0.43
44:FA:344:VAL:CG1	44:FA:347:CYS:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:52:ASN:OD1	45:FB:62:ARG:NE	2.47	0.43
45:FB:61:PRO:CD	45:FB:84:LEU:HB3	2.48	0.43
45:FB:377:MET:HE2	45:FB:381:VAL:CG2	2.48	0.43
44:FC:28:HIS:HE1	44:FC:243:ARG:HD3	1.83	0.43
45:FD:303:ALA:HB1	45:FD:373:ALA:O	2.18	0.43
45:FD:334:GLN:HB2	45:FD:349:ILE:HD13	2.00	0.43
44:FE:167:LEU:HD11	44:FE:252:ILE:HG23	2.00	0.43
44:FE:222:PRO:CG	45:FF:324:LYS:HG3	2.47	0.43
44:FE:222:PRO:HG2	45:FF:324:LYS:HG3	2.01	0.43
45:FF:169:VAL:O	45:FF:169:VAL:HG23	2.18	0.43
45:FF:388:MET:HG3	45:FF:393:ALA:HB3	2.01	0.43
44:FG:229:ARG:HG2	44:FG:229:ARG:NH1	2.33	0.43
44:FG:244:PHE:CE1	44:FG:358:GLN:HG2	2.54	0.43
45:FH:235:GLY:HA2	45:FH:318:ARG:HH22	1.79	0.43
45:FH:238:CYS:SG	45:FH:239:CYS:N	2.92	0.43
44:FI:10:GLY:O	44:FI:14:ILE:N	2.46	0.43
44:FI:296:PHE:N	44:FI:296:PHE:CD1	2.86	0.43
45:FJ:24:ILE:HA	45:FJ:27:GLU:HG2	2.00	0.43
45:FJ:151:LEU:O	45:FJ:151:LEU:HD23	2.18	0.43
44:FK:126:ALA:O	44:FK:129:CYS:N	2.51	0.43
44:FK:208:ALA:HB3	44:FK:302:MET:O	2.18	0.43
45:FL:116:VAL:CA	45:FL:119:VAL:HG12	2.45	0.43
45:FL:183:TYR:CE1	45:FL:388:MET:HG3	2.53	0.43
45:FL:263:LEU:HD12	45:FL:263:LEU:N	2.34	0.43
45:FN:60:VAL:HG13	45:FN:60:VAL:O	2.18	0.43
45:FN:73:MET:HE1	45:FN:92:PHE:HA	2.00	0.43
45:FN:187:LEU:HD11	45:FN:408:PHE:CE1	2.54	0.43
45:FN:268:ILE:HG22	45:FN:368:VAL:HG22	1.98	0.43
45:FN:341:PHE:HD1	45:FN:348:ASN:HD21	1.65	0.43
44:GA:3:GLU:HA	44:GA:51:THR:O	2.17	0.43
44:GA:11:GLN:HG3	44:GA:74:VAL:HG11	1.99	0.43
44:GA:101:ASN:HD22	44:GA:144:GLY:N	2.17	0.43
44:GA:420:GLU:C	44:GA:423:GLU:HG2	2.39	0.43
45:GB:91:VAL:HG21	45:GB:116:VAL:HB	2.00	0.43
44:GC:278:ALA:CA	44:GC:369:ALA:HB2	2.48	0.43
45:GD:255:VAL:O	45:GD:255:VAL:HG12	2.19	0.43
44:GE:232:ALA:HA	44:GE:235:ILE:HG22	2.01	0.43
45:GF:139:LEU:HD12	45:GF:139:LEU:N	2.33	0.43
45:GF:312:THR:HG22	45:GF:370:ASN:CB	2.39	0.43
44:GG:56:THR:HG22	44:GG:60:LYS:O	2.17	0.43
44:GG:276:ILE:HG23	44:GG:281:ALA:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GH:66:MET:HE1	45:GH:151:LEU:HD13	2.00	0.43
45:GH:377:MET:CA	45:GH:380:ARG:HG2	2.46	0.43
45:GH:391:ARG:HD2	45:GH:391:ARG:HA	1.79	0.43
44:GI:261:PRO:HA	45:GL:394:PHE:CZ	2.54	0.43
45:GJ:17:GLY:O	45:GJ:20:PHE:HB3	2.19	0.43
45:GJ:47:ILE:HG12	45:GJ:51:TYR:HB2	2.01	0.43
45:GJ:77:ARG:NH1	45:GJ:83:GLN:HA	2.34	0.43
45:GJ:202:ILE:CG2	45:GJ:207:LEU:HD21	2.49	0.43
45:GJ:376:GLU:HG3	45:GJ:380:ARG:NH2	2.29	0.43
44:GK:208:ALA:O	44:GK:211:ASP:HB2	2.19	0.43
44:GK:305:CYS:SG	44:GK:305:CYS:O	2.77	0.43
45:GL:249:ASP:O	45:GL:252:LYS:HB3	2.18	0.43
45:GL:267:MET:CE	45:GL:299:MET:HG2	2.49	0.43
45:GN:81:PHE:O	45:GN:84:LEU:HD13	2.19	0.43
45:GN:180:VAL:CG2	45:GN:183:TYR:HD2	2.32	0.43
44:HC:141:VAL:HG11	44:HC:172:TYR:HD1	1.82	0.43
44:HC:207:GLU:HG3	44:HC:304:LYS:HZ1	1.82	0.43
44:HG:63:PRO:HG2	44:HG:86:LEU:CG	2.49	0.43
45:HH:77:ARG:HE	45:HH:90:PHE:HE1	1.66	0.43
44:HI:31:GLN:HB3	44:HI:32:PRO:CD	2.46	0.43
44:HI:200:VAL:HG13	44:HI:268:MET:HE1	1.96	0.43
45:HJ:102:ALA:CB	45:HJ:401:GLU:HB2	2.49	0.43
45:HJ:257:LEU:HD21	45:HJ:368:VAL:CG2	2.48	0.43
45:HL:72:THR:HG23	45:HL:73:MET:N	2.34	0.43
44:HM:271:SER:HB2	44:HM:377:MET:HE2	2.01	0.43
45:HN:21:TRP:CE3	45:HN:24:ILE:HG21	2.54	0.43
45:HN:60:VAL:HG13	45:HN:60:VAL:O	2.18	0.43
44:IA:103:PHE:H	44:IA:408:TYR:HE2	1.67	0.43
44:IA:439:THR:HG21	45:ID:390:ARG:CD	2.48	0.43
45:IB:237:THR:OG1	45:IB:240:LEU:HB2	2.18	0.43
45:IB:269:GLY:HA3	45:IB:299:MET:CE	2.49	0.43
45:IB:313:ALA:HB1	45:IB:349:ILE:HG23	2.00	0.43
44:IC:151:SER:HB3	44:IC:193:SER:OG	2.19	0.43
45:ID:101:TRP:CZ3	45:ID:187:LEU:HD23	2.54	0.43
45:ID:293:MET:HE3	45:ID:315:ALA:CB	2.49	0.43
45:ID:296:ALA:HB2	45:ID:306:ARG:NH2	2.34	0.43
45:ID:377:MET:HA	45:ID:380:ARG:CD	2.49	0.43
44:IE:201:ALA:HB3	44:IE:267:PHE:CD2	2.53	0.43
44:IE:253:THR:O	44:IE:257:THR:HG23	2.19	0.43
44:IE:437:ILE:O	44:IE:437:ILE:HG13	2.18	0.43
45:IF:187:LEU:HD11	45:IF:408:PHE:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IF:342:VAL:HG13	45:IF:345:ILE:CG2	2.46	0.43
44:IG:50:ASN:O	44:IG:50:ASN:ND2	2.33	0.43
44:IG:102:ASN:OD1	44:IG:105:ARG:N	2.51	0.43
44:IG:195:LEU:HA	44:IG:266:HIS:CE1	2.53	0.43
44:IG:224:TYR:CE1	45:IH:323:THR:HG21	2.54	0.43
44:IG:238:LEU:HD23	44:IG:238:LEU:C	2.39	0.43
45:IH:267:MET:O	45:IH:267:MET:HG3	2.18	0.43
44:II:22:GLU:CG	44:II:83:TYR:HE2	2.30	0.43
44:II:275:ILE:HD12	44:II:368:LEU:CD1	2.44	0.43
44:II:383:ALA:O	44:II:386:GLU:HG2	2.18	0.43
45:IJ:2:ARG:NH2	45:IJ:240:LEU:O	2.52	0.43
45:IJ:286:VAL:N	45:IJ:287:PRO:CD	2.82	0.43
44:IK:261:PRO:HA	45:IN:394:PHE:CE2	2.54	0.43
44:IK:276:ILE:CD1	44:IK:281:ALA:HA	2.48	0.43
45:IL:27:GLU:OE2	45:IL:241:ARG:NH1	2.47	0.43
45:IL:72:THR:HG23	45:IL:73:MET:SD	2.58	0.43
45:IL:145:SER:O	45:IL:149:THR:OG1	2.34	0.43
44:IM:22:GLU:O	44:IM:25:CYS:HB2	2.19	0.43
44:IM:422:ARG:NH1	44:IM:426:ALA:HB2	2.33	0.43
45:IN:53:GLU:HG2	45:IN:59:TYR:CE1	2.54	0.43
45:IN:99:ASN:HA	45:IN:142:GLY:H	1.82	0.43
45:IN:275:SER:O	45:IN:278:SER:N	2.52	0.43
44:JC:5:ILE:HD12	44:JC:132:LEU:HD22	1.99	0.43
44:JC:210:TYR:CE2	45:JD:324:LYS:HA	2.48	0.43
45:JF:406:MET:HG2	45:NF:307:HIS:HE1	1.81	0.43
44:JG:96:LYS:HA	44:JG:96:LYS:HD2	1.71	0.43
44:JG:328:VAL:HG11	44:JG:353:VAL:HG21	1.99	0.43
45:JH:35:THR:HG22	45:JH:36:TYR:N	2.34	0.43
45:JH:263:LEU:HD22	45:JH:422:TYR:CD2	2.54	0.43
45:JH:282:ARG:O	45:JH:282:ARG:HG3	2.17	0.43
44:JI:221:ARG:HG3	45:JJ:325:GLU:CD	2.38	0.43
44:JI:265:ILE:HG23	44:JI:432:TYR:HE1	1.81	0.43
45:JJ:14:ASN:HD21	45:JJ:76:VAL:CB	2.30	0.43
44:JM:75:ILE:HG23	44:JM:78:VAL:HG11	2.01	0.43
45:JN:31:ASP:HB3	45:JN:32:PRO:CD	2.49	0.43
45:JN:404:ASP:OD2	45:JN:406:MET:HE1	2.18	0.43
45:KB:136:THR:CB	45:KB:167:PHE:HB2	2.48	0.43
44:KC:102:ASN:OD1	44:KC:105:ARG:HG3	2.19	0.43
44:KC:256:GLN:OE1	45:KF:397:TRP:CZ3	2.72	0.43
44:KE:26:LEU:HD23	44:KE:26:LEU:O	2.18	0.43
44:KE:112:LYS:CE	44:KE:113:GLU:HG3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:325:PRO:O	44:KG:328:VAL:CG2	2.66	0.43
44:KG:375:VAL:HG22	44:KG:377:MET:CE	2.49	0.43
45:KH:193:VAL:HG23	45:KH:264:HIS:NE2	2.34	0.43
44:KI:102:ASN:OD1	44:KI:104:ALA:HB3	2.19	0.43
44:KI:215:ARG:HH22	44:KI:216:ASN:HB3	1.83	0.43
45:KJ:151:LEU:O	45:KJ:155:VAL:HG13	2.19	0.43
45:KJ:158:GLU:HG3	45:KJ:159:TYR:CD1	2.53	0.43
44:KK:24:PHE:HA	44:KK:27:GLU:HG2	2.01	0.43
44:KK:160:ASP:HB3	44:KK:161:TYR:HD1	1.84	0.43
45:KL:83:GLN:O	45:LL:281:TYR:OH	2.35	0.43
45:KN:417:ASP:O	45:KN:421:GLU:HG2	2.19	0.43
44:LC:331:SER:O	44:LC:335:ILE:HG12	2.19	0.43
44:LE:307:PRO:HB3	44:LE:312:TYR:HE1	1.84	0.43
44:LG:118:CYS:SG	44:LG:153:LEU:HD13	2.59	0.43
44:LG:123:ARG:NE	44:LG:123:ARG:HA	2.34	0.43
45:LH:203:ASP:HB3	45:LH:205:GLU:HG2	2.01	0.43
45:LH:245:GLN:C	45:LH:246:LEU:HD12	2.39	0.43
45:LH:267:MET:CE	45:LH:301:CYS:SG	3.07	0.43
45:LH:311:LEU:O	45:LH:345:ILE:HD11	2.19	0.43
44:LI:13:GLY:CA	44:LI:16:VAL:HG22	2.48	0.43
45:LJ:251:ARG:HB3	45:LJ:251:ARG:CZ	2.48	0.43
44:LK:60:LYS:HZ2	44:MK:283:HIS:HE1	1.61	0.43
45:LL:266:PHE:CE1	45:LL:370:ASN:HB2	2.54	0.43
45:LN:70:PRO:HA	45:LN:73:MET:CE	2.49	0.43
45:LN:187:LEU:HD21	45:LN:408:PHE:CD1	2.53	0.43
45:LN:294:PHE:HE1	45:LN:333:VAL:HG21	1.77	0.43
44:MA:101:ASN:HA	44:MA:144:GLY:N	2.34	0.43
45:MB:232:ALA:HB2	45:MB:270:PHE:HB2	2.01	0.43
45:MB:417:ASP:OD1	45:MB:421:GLU:HG3	2.18	0.43
44:MC:153:LEU:O	44:MC:157:LEU:HG	2.19	0.43
45:MD:212:PHE:HE2	45:MD:220:PRO:HG2	1.80	0.43
45:MD:213:ARG:HB3	45:MD:297:LYS:HZ1	1.84	0.43
45:MD:292:GLN:OE1	45:MD:298:ASN:ND2	2.51	0.43
45:MF:68:LEU:CD2	45:MF:147:MET:CE	2.95	0.43
45:MF:104:GLY:HA2	45:MF:109:GLY:CA	2.46	0.43
45:MF:231:ALA:HB1	45:MF:270:PHE:CD2	2.52	0.43
44:MG:105:ARG:HA	44:MG:411:GLU:HG2	2.01	0.43
44:MG:224:TYR:HD1	44:MG:227:LEU:HD12	1.83	0.43
44:MG:425:LEU:HD23	44:MG:425:LEU:HA	1.81	0.43
45:MJ:252:LYS:O	45:MJ:255:VAL:HB	2.19	0.43
45:MJ:303:ALA:N	45:MJ:377:MET:HE3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MJ:357:PRO:HB3	45:MJ:362:LYS:O	2.19	0.43
44:MK:18:ASN:O	44:MK:22:GLU:OE1	2.36	0.43
44:MK:108:TYR:O	44:MK:112:LYS:NZ	2.45	0.43
44:MK:188:ILE:HG23	44:MK:189:LEU:N	2.33	0.43
44:MM:66:VAL:C	44:MM:67:PHE:HD1	2.22	0.43
45:MN:250:LEU:O	45:MN:253:LEU:HB3	2.18	0.43
45:MN:286:VAL:HG21	45:MN:325:GLU:CB	2.43	0.43
45:MN:324:LYS:O	45:MN:328:GLU:HG2	2.18	0.43
44:NA:363:VAL:HG12	44:NA:368:LEU:HB2	2.01	0.43
44:NA:377:MET:HE3	44:NA:378:ILE:N	2.34	0.43
45:NB:116:VAL:HA	45:NB:119:VAL:CG1	2.43	0.43
45:NB:173:PRO:HD2	45:NB:174:LYS:HZ3	1.84	0.43
45:NB:290:THR:HG23	45:NB:291:GLN:N	2.34	0.43
44:NC:137:VAL:HG13	44:NC:137:VAL:O	2.18	0.43
44:NE:22:GLU:HB3	44:NE:83:TYR:CE2	2.54	0.43
44:NE:103:PHE:HE2	44:NE:147:SER:HG	1.63	0.43
44:NE:123:ARG:HD2	44:NE:123:ARG:O	2.19	0.43
44:NE:315:CYS:SG	44:NE:379:SER:HB2	2.59	0.43
44:NG:136:LEU:CD2	44:NG:167:LEU:HD22	2.49	0.43
44:NG:423:GLU:HA	44:NG:426:ALA:CB	2.49	0.43
45:NH:282:ARG:NH1	45:NH:282:ARG:HB2	2.34	0.43
44:NI:13:GLY:CA	44:NI:16:VAL:HG12	2.48	0.43
44:NI:203:MET:HG3	44:NI:384:ILE:HD13	2.00	0.43
44:NI:286:LEU:HD21	44:NI:291:ILE:HG22	2.00	0.43
45:NJ:242:PHE:HB3	45:NJ:243:PRO:HD2	2.01	0.43
44:NK:221:ARG:HH22	45:NL:321:MET:HB2	1.84	0.43
45:NL:4:ILE:HD12	45:NL:134:GLN:HG2	2.01	0.43
45:NL:257:LEU:O	45:NL:259:PRO:HD3	2.18	0.43
45:NL:290:THR:OG1	45:NL:333:VAL:HG21	2.17	0.43
44:NM:21:TRP:CZ2	44:NM:65:ALA:HB2	2.53	0.43
44:NM:100:ALA:O	44:NM:101:ASN:HB2	2.17	0.43
44:NM:179:THR:HG21	45:NN:246:LEU:HD23	1.99	0.43
44:NM:206:ASN:HA	44:NM:209:ILE:HD12	2.00	0.43
44:NM:330:ALA:O	44:NM:334:THR:HG23	2.18	0.43
44:OA:294:SER:HA	44:OA:297:GLU:HG3	2.00	0.43
45:OB:104:GLY:HA3	45:OB:147:MET:HE1	2.00	0.43
44:OC:285:GLN:CG	44:OC:287:SER:HB3	2.49	0.43
44:OC:401:LYS:HG2	45:OD:260:PHE:HZ	1.83	0.43
45:OD:102:ALA:HA	45:OD:106:TYR:CD2	2.53	0.43
44:OE:237:SER:CB	44:OE:376:CYS:CB	2.96	0.43
45:OF:269:GLY:O	45:OF:366:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:263:LEU:HD23	45:OH:422:TYR:CE1	2.53	0.43
44:OI:99:ALA:HB3	44:OI:145:THR:HB	2.01	0.43
44:OI:203:MET:HG3	44:OI:384:ILE:HD11	2.00	0.43
45:OJ:66:MET:CE	45:OJ:151:LEU:HD13	2.49	0.43
45:OJ:240:LEU:HD12	45:OJ:249:ASP:CA	2.49	0.43
45:OJ:304:ASP:HB3	45:OJ:307:HIS:CG	2.53	0.43
45:OJ:316:LEU:HD13	45:OJ:352:SER:CB	2.43	0.43
45:OJ:407:GLU:OE1	45:OJ:407:GLU:N	2.41	0.43
44:OK:153:LEU:O	44:OK:157:LEU:HG	2.18	0.43
45:OL:113:ILE:CA	45:OL:116:VAL:HG12	2.46	0.43
45:OL:116:VAL:CA	45:OL:119:VAL:HG12	2.48	0.43
45:OL:118:ASP:HA	45:OL:121:ARG:HG2	2.00	0.43
45:OL:156:ARG:NH2	45:OL:197:ASP:OD1	2.52	0.43
45:OL:290:THR:CA	45:OL:293:MET:HG2	2.47	0.43
44:OM:14:ILE:HG23	44:OM:15:GLN:N	2.34	0.43
44:OM:344:VAL:HG21	44:OM:346:TRP:CE2	2.54	0.43
45:PB:21:TRP:HZ3	45:PB:50:TYR:HB3	1.82	0.43
44:PC:221:ARG:HH12	45:PD:325:GLU:CB	2.30	0.43
44:PE:151:SER:CB	44:PE:193:SER:HG	2.31	0.43
44:PE:301:MET:HE1	44:PE:305:CYS:O	2.19	0.43
45:PF:8:GLN:HE21	45:PF:14:ASN:HA	1.83	0.43
45:PF:256:ASN:HD22	45:PF:350:LYS:CD	2.30	0.43
45:PF:274:THR:HG21	45:PF:279:GLN:HG3	1.99	0.43
45:PH:166:THR:HG1	45:PH:199:CYS:CB	2.32	0.43
45:PJ:2:ARG:HB2	45:PJ:131:GLN:CB	2.46	0.43
45:PJ:86:ARG:NE	45:PJ:87:PRO:HD2	2.28	0.43
45:PJ:97:ALA:CB	45:PJ:143:THR:HB	2.49	0.43
45:PJ:293:MET:SD	45:PJ:365:VAL:HG11	2.59	0.43
45:PL:76:VAL:O	45:PL:76:VAL:HG22	2.19	0.43
45:PL:99:ASN:CA	45:PL:142:GLY:HA3	2.49	0.43
45:PL:293:MET:CG	45:PL:367:PHE:HB2	2.44	0.43
45:PL:342:VAL:HG21	45:PL:344:TRP:NE1	2.33	0.43
45:PL:403:MET:HA	45:PL:403:MET:HE3	1.97	0.43
44:PM:169:PHE:CD1	44:PM:202:VAL:HG21	2.54	0.43
44:PM:329:ASN:O	44:PM:332:ILE:HG22	2.19	0.43
44:QA:74:VAL:HG13	44:QA:75:ILE:N	2.34	0.43
44:QA:240:ALA:CB	44:QA:356:ASN:HD22	2.27	0.43
44:QA:256:GLN:NE2	45:QB:397:TRP:CZ2	2.87	0.43
44:QC:87:PHE:HD1	44:QC:91:GLN:NE2	2.15	0.43
44:QC:233:GLN:HB3	44:QC:272:TYR:HH	1.84	0.43
44:QE:209:ILE:HA	44:QE:212:ILE:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QE:307:PRO:HB3	44:QE:312:TYR:OH	2.19	0.43
45:QH:200:MET:HA	45:QH:266:PHE:O	2.19	0.43
44:QK:320:ARG:HB2	44:QK:358:GLN:O	2.19	0.43
45:QL:68:LEU:HG	45:QL:68:LEU:O	2.18	0.43
45:QL:267:MET:O	45:QL:267:MET:HG2	2.19	0.43
44:QM:320:ARG:HD3	44:QM:360:PRO:HG3	2.01	0.43
44:RA:175:PRO:HB3	44:RA:390:ARG:CZ	2.49	0.43
45:RB:257:LEU:HD22	45:RB:266:PHE:CE2	2.54	0.43
45:RB:383:GLU:O	45:RB:386:THR:HG22	2.19	0.43
44:RC:288:VAL:HG11	44:RC:323:VAL:HG23	2.01	0.43
44:RC:323:VAL:CG1	44:RC:355:ILE:HD11	2.49	0.43
44:RC:333:ALA:HA	44:RC:336:LYS:HZ2	1.84	0.43
45:RD:289:LEU:CD2	45:RD:364:ALA:HA	2.47	0.43
44:RE:98:ASP:O	44:RE:105:ARG:NH1	2.52	0.43
44:RE:227:LEU:HD23	44:RE:227:LEU:HA	1.90	0.43
44:RE:326:LYS:CG	45:RF:220:PRO:HG2	2.46	0.43
44:RG:402:ARG:HA	44:RG:405:VAL:CG2	2.48	0.43
44:RG:419:SER:O	44:RG:422:ARG:NH1	2.52	0.43
44:RI:328:VAL:HA	44:RI:331:SER:OG	2.19	0.43
45:RJ:139:LEU:HA	45:RJ:145:SER:HB3	2.00	0.43
45:RJ:271:ALA:O	45:RJ:365:VAL:N	2.52	0.43
44:RK:295:ALA:HA	44:RK:377:MET:HE1	2.00	0.43
44:RM:259:LEU:HD23	44:RM:314:ALA:HB1	2.00	0.43
45:RN:238:CYS:HB2	45:RN:318:ARG:HE	1.84	0.43
45:RN:381:VAL:HG23	45:RN:415:MET:HE1	2.01	0.43
44:SA:228:ASN:HA	44:SA:231:ILE:CG1	2.49	0.43
44:SA:248:LEU:HB3	44:SA:355:ILE:N	2.32	0.43
44:SA:284:GLU:HG3	44:SA:286:LEU:HD21	1.96	0.43
44:SC:23:LEU:HD12	44:SC:361:THR:CG2	2.49	0.43
44:SC:219:ILE:HD12	44:SC:220:GLU:OE2	2.18	0.43
44:SE:256:GLN:HB2	44:SE:260:VAL:HG21	1.99	0.43
44:SE:301:MET:HB3	44:SE:303:ALA:O	2.19	0.43
44:SG:67:PHE:HB2	44:SG:92:LEU:HD22	2.00	0.43
44:SG:223:THR:HG23	44:SG:225:THR:HG23	2.00	0.43
44:SG:288:VAL:HA	44:SG:291:ILE:HG12	1.99	0.43
44:SG:417:GLU:O	44:SG:420:GLU:HG2	2.18	0.43
45:SH:258:ILE:O	45:SH:258:ILE:HG22	2.19	0.43
44:SI:215:ARG:CZ	44:SI:299:ALA:HB1	2.49	0.43
45:SJ:406:MET:HA	45:SJ:409:THR:OG1	2.19	0.43
44:SK:187:SER:O	44:SK:191:THR:N	2.36	0.43
44:SK:255:PHE:CE1	44:SK:352:LYS:NZ	2.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:362:VAL:O	44:SK:362:VAL:HG13	2.18	0.43
45:SL:103:LYS:HG3	45:SL:107:THR:HG1	1.83	0.43
45:SL:103:LYS:HG3	45:SL:108:GLU:HG2	2.01	0.43
45:SL:105:HIS:CD2	45:SL:150:LEU:HD12	2.53	0.43
45:SL:213:ARG:CZ	45:SL:213:ARG:HB3	2.48	0.43
45:SL:286:VAL:HB	45:SL:287:PRO:HD3	2.00	0.43
45:SL:330:MET:HB3	45:SL:349:ILE:HG21	2.00	0.43
44:SM:98:ASP:CG	44:SM:100:ALA:H	2.21	0.43
45:SN:12:CYS:CB	45:SN:138:SER:HB2	2.48	0.43
44:TA:201:ALA:HB3	44:TA:267:PHE:CD2	2.54	0.43
44:TA:271:SER:HB2	44:TA:377:MET:HG2	2.01	0.43
45:TB:386:THR:OG1	45:TB:390:ARG:NH2	2.51	0.43
44:TC:32:PRO:HG3	44:TC:83:TYR:CE1	2.54	0.43
45:TF:253:LEU:O	45:TF:257:LEU:HD13	2.18	0.43
44:TG:11:GLN:H	46:TG:501:GTP:PB	2.41	0.43
44:TG:81:GLY:O	44:TG:84:ARG:HG2	2.19	0.43
44:TG:141:VAL:HG12	44:TG:187:SER:HA	2.00	0.43
44:TG:211:ASP:OD2	44:TG:304:LYS:NZ	2.49	0.43
44:TG:238:LEU:HD11	44:TG:255:PHE:CE2	2.54	0.43
44:TG:267:PHE:O	44:TG:268:MET:CE	2.66	0.43
45:TH:173:PRO:HG2	45:TH:380:ARG:CG	2.49	0.43
45:TH:204:ASN:O	45:TH:207:LEU:HB2	2.18	0.43
45:TH:405:GLU:OE1	45:TH:405:GLU:N	2.39	0.43
44:TI:182:VAL:HG22	44:TI:182:VAL:O	2.18	0.43
44:TI:242:LEU:CD1	44:TI:252:ILE:HG13	2.41	0.43
45:TJ:104:GLY:O	45:TJ:147:MET:N	2.52	0.43
45:TJ:178:THR:H	45:TJ:181:GLU:CD	2.19	0.43
44:TK:223:THR:O	44:TK:227:LEU:HG	2.19	0.43
45:UB:2:ARG:NH2	45:UB:240:LEU:HG	2.34	0.43
45:UB:198:GLU:HG2	45:UB:266:PHE:CE2	2.35	0.43
45:UB:290:THR:HG23	45:UB:291:GLN:N	2.33	0.43
45:UB:322:SER:OG	44:UC:221:ARG:HG3	2.18	0.43
45:UD:96:GLY:O	45:UD:103:LYS:HD3	2.19	0.43
45:UD:163:ILE:HA	45:UD:197:ASP:OD2	2.19	0.43
45:UD:377:MET:O	45:UD:380:ARG:HG2	2.19	0.43
45:UF:267:MET:HB2	45:UF:299:MET:HE1	2.00	0.43
44:UG:2:ARG:HD2	44:UG:242:LEU:CD2	2.49	0.43
45:UH:1:MET:HE3	44:UI:72:PRO:CD	2.48	0.43
45:UJ:11:GLN:HA	45:UJ:14:ASN:HD22	1.83	0.43
45:UJ:189:VAL:HG12	45:UJ:189:VAL:O	2.18	0.43
44:UK:229:ARG:HH12	44:UK:363:VAL:HG11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:311:LYS:HB2	44:UK:382:THR:HG23	1.99	0.43
45:UL:68:LEU:HB2	45:UL:143:THR:OG1	2.18	0.43
45:UL:86:ARG:HE	45:UL:86:ARG:CA	2.30	0.43
45:UL:143:THR:O	45:UL:147:MET:HB2	2.19	0.43
45:UL:258:ILE:HG22	45:UL:260:PHE:O	2.19	0.43
45:UN:383:GLU:CA	45:UN:386:THR:HG22	2.48	0.43
44:VA:7:ILE:C	44:VA:137:VAL:HG23	2.39	0.43
44:VE:8:HIS:ND1	44:VE:67:PHE:HE1	2.16	0.43
44:VE:72:PRO:HA	44:VE:75:ILE:HD13	2.01	0.43
44:VE:183:GLU:HG2	44:VE:184:PRO:HD3	2.00	0.43
44:VE:203:MET:HE2	44:VE:269:LEU:CB	2.41	0.43
44:VE:221:ARG:NH1	45:VF:325:GLU:H	2.16	0.43
44:VE:262:TYR:HB3	44:VE:263:PRO:HD2	2.01	0.43
44:VG:64:ARG:HH11	44:VG:64:ARG:HG3	1.84	0.43
44:VI:166:LYS:HE2	44:VI:166:LYS:HA	1.99	0.43
44:VK:102:ASN:O	44:VK:105:ARG:N	2.50	0.43
44:VM:427:ALA:HA	44:VM:430:LYS:CG	2.45	0.43
45:VN:2:ARG:HH12	45:VN:240:LEU:HG	1.83	0.43
45:VN:183:TYR:OH	45:VN:393:ALA:O	2.22	0.43
45:VN:250:LEU:HA	45:VN:253:LEU:HB2	2.01	0.43
44:WA:3:GLU:OE1	44:WA:131:GLY:N	2.46	0.43
44:WA:231:ILE:HA	44:WA:234:VAL:HB	2.01	0.43
45:WD:85:PHE:N	45:WD:85:PHE:CD1	2.86	0.43
45:WD:263:LEU:HG	45:WD:422:TYR:CD1	2.53	0.43
44:WE:126:ALA:O	44:WE:129:CYS:N	2.52	0.43
45:WF:99:ASN:HB2	45:WF:180:VAL:HG11	1.99	0.43
44:WG:182:VAL:C	44:WG:184:PRO:HD2	2.39	0.43
45:WH:21:TRP:O	45:WH:24:ILE:HG22	2.18	0.43
45:WH:101:TRP:CZ3	45:WH:187:LEU:HD13	2.54	0.43
45:WH:198:GLU:HA	45:WH:264:HIS:CG	2.54	0.43
45:WH:286:VAL:CB	45:WH:287:PRO:CD	2.91	0.43
45:WJ:25:SER:HA	45:WJ:30:ILE:CG1	2.49	0.43
44:WK:181:VAL:HG12	45:WL:347:ASN:O	2.18	0.43
45:WL:68:LEU:HD23	45:WL:97:ALA:CA	2.49	0.43
45:WL:102:ALA:HB1	45:WL:401:GLU:HB2	1.99	0.43
45:WL:178:THR:HB	45:WL:181:GLU:CG	2.32	0.43
45:WN:38:GLY:HA3	45:WN:43:GLN:NE2	2.33	0.43
1:6H:344:ASN:HD22	44:FI:77:GLU:HG2	1.83	0.43
20:1J:201:LYS:HD3	44:IG:285:GLN:OE1	2.18	0.43
24:1O:261:LEU:HD23	44:TA:58:ALA:CB	2.49	0.43
17:2B:59:PHE:HD2	44:LK:32:PRO:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2I:31:SER:OG	44:GG:211:ASP:HA	2.19	0.43
32:2I:102:VAL:CA	45:GF:306:ARG:HH22	2.31	0.43
32:2I:138:VAL:HG22	45:GD:337:ASN:HD21	1.83	0.43
24:2O:322:ARG:HG2	44:VE:364:PRO:CA	2.48	0.43
15:2V:82:THR:HG21	45:LF:402:GLY:O	2.18	0.43
27:2W:239:ARG:NH2	35:6R:5:LEU:CD2	2.67	0.43
26:3R:112:GLU:O	45:BN:360:GLY:O	2.37	0.43
16:3X:110:LYS:HD3	44:MK:279:GLU:OE2	2.19	0.43
34:4F:147:HIS:HB3	45:IN:80:PRO:CD	2.49	0.43
35:4R:107:PRO:CA	45:BH:360:GLY:HA3	2.48	0.43
37:5A:78:SER:HA	45:NB:320:ARG:NH2	2.33	0.43
37:5D:62:PRO:CG	45:KN:416:ASN:O	2.67	0.43
39:5K:77:LYS:HD2	39:5K:77:LYS:C	2.39	0.43
11:5Q:93:VAL:N	11:5Q:101:ARG:O	2.48	0.43
11:5Q:117:PHE:HB2	11:5Q:118:ILE:HD12	2.01	0.43
11:5Q:137:SER:HA	11:5Q:148:TYR:CD1	2.54	0.43
41:6G:215:GLN:HA	41:6G:218:GLU:CG	2.49	0.43
11:6Q:87:TYR:CD1	11:6Q:160:CYS:HB3	2.54	0.43
11:6Q:180:GLU:HG2	11:6Q:181:PHE:H	1.84	0.43
35:6R:168:GLY:O	35:6R:179:ARG:NH2	2.52	0.43
35:7R:94:ARG:HH11	44:AA:41:THR:CG2	2.30	0.43
35:7R:127:ILE:HG22	35:7R:148:GLN:O	2.18	0.43
35:7R:175:GLU:HG3	45:AD:33:THR:HG23	2.01	0.43
35:7R:544:SER:HB3	35:7R:547:GLU:HB3	2.00	0.43
42:8L:74:UNK:O	42:8L:78:UNK:N	2.52	0.43
42:8L:138:UNK:O	42:8L:139:UNK:C	2.66	0.43
44:AA:31:GLN:HB3	44:AA:32:PRO:CD	2.49	0.43
44:AA:189:LEU:HD12	44:AA:189:LEU:N	2.33	0.43
44:AA:297:GLU:CG	44:AA:298:PRO:HD2	2.46	0.43
45:AB:55:THR:HG23	45:BB:283:ALA:HB1	1.97	0.43
45:AB:91:VAL:CG2	45:AB:116:VAL:HB	2.39	0.43
45:AB:265:PHE:CE1	45:AB:378:PHE:HZ	2.37	0.43
45:AB:337:ASN:O	45:AB:341:PHE:HD2	2.02	0.43
45:AB:377:MET:HA	45:AB:380:ARG:CD	2.49	0.43
44:AC:6:SER:O	44:AC:7:ILE:HD13	2.19	0.43
44:AC:37:PRO:HB2	44:AC:39:ASP:O	2.19	0.43
44:AC:246:GLY:CA	44:AC:357:TYR:HE2	2.32	0.43
45:AD:267:MET:HG3	45:AD:299:MET:CE	2.49	0.43
45:AD:282:ARG:NH1	45:AD:282:ARG:CB	2.82	0.43
45:AF:17:GLY:O	45:AF:20:PHE:HB3	2.18	0.43
45:AF:28:HIS:NE2	45:AF:241:ARG:HD2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AF:103:LYS:HD2	45:AF:107:THR:CG2	2.46	0.43
45:AF:113:ILE:HA	45:AF:116:VAL:CG1	2.46	0.43
45:AF:198:GLU:OE2	45:AF:254:ALA:HB2	2.18	0.43
44:AG:89:PRO:HG2	44:BG:280:LYS:HD3	2.00	0.43
44:AG:107:HIS:O	44:AG:108:TYR:HD1	2.02	0.43
45:AH:9:GLY:O	45:AH:13:GLY:HA3	2.18	0.43
45:AH:345:ILE:O	45:AH:345:ILE:HG23	2.19	0.43
44:AI:344:VAL:HG12	44:AI:346:TRP:H	1.84	0.43
44:AI:414:GLU:HB2	44:AI:417:GLU:HG2	2.00	0.43
45:AJ:225:LEU:HD23	45:AJ:225:LEU:HA	1.82	0.43
44:AK:135:PHE:HZ	44:AK:161:TYR:CE2	2.36	0.43
44:AK:137:VAL:O	44:AK:137:VAL:HG13	2.18	0.43
44:AK:405:VAL:O	44:AK:409:VAL:HG13	2.19	0.43
44:AM:223:THR:HG22	44:AM:226:ASN:OD1	2.18	0.43
45:AN:143:THR:HG23	45:AN:144:GLY:N	2.34	0.43
44:BA:7:ILE:O	44:BA:137:VAL:HG23	2.19	0.43
44:BA:408:TYR:HB3	44:BA:413:MET:HE2	2.00	0.43
44:BC:223:THR:HB	45:BD:322:SER:HA	2.01	0.43
44:BC:244:PHE:CE1	44:BC:358:GLN:HG2	2.54	0.43
44:BC:320:ARG:HH21	44:BC:359:PRO:C	2.22	0.43
45:BD:151:LEU:O	45:BD:155:VAL:HG13	2.19	0.43
45:BD:390:ARG:NH1	45:BD:391:ARG:HG2	2.34	0.43
44:BE:22:GLU:HG3	44:BE:83:TYR:OH	2.18	0.43
45:BH:4:ILE:HG13	45:BH:5:VAL:H	1.83	0.43
44:BI:384:ILE:O	44:BI:384:ILE:HG13	2.18	0.43
45:BJ:65:LEU:HB2	45:BJ:89:ASN:O	2.18	0.43
45:BJ:207:LEU:HD12	45:BJ:225:LEU:HD13	2.00	0.43
45:BJ:270:PHE:HD2	45:BJ:273:LEU:CD2	2.31	0.43
44:BK:188:ILE:HD12	44:BK:425:LEU:HD13	2.01	0.43
44:BK:368:LEU:HD12	44:BK:368:LEU:N	2.33	0.43
45:BL:135:ILE:HD11	45:BL:152:ILE:HD11	2.01	0.43
44:BM:107:HIS:ND1	44:BM:107:HIS:O	2.51	0.43
44:BM:234:VAL:O	44:BM:237:SER:OG	2.23	0.43
44:BM:320:ARG:HA	44:BM:356:ASN:O	2.18	0.43
45:BN:179:VAL:O	45:BN:179:VAL:HG22	2.18	0.43
44:CA:89:PRO:HD2	44:DA:280:LYS:HD3	2.00	0.43
44:CA:290:GLU:O	44:CA:293:ASN:HB2	2.19	0.43
44:CA:427:ALA:CA	44:CA:430:LYS:HG2	2.40	0.43
44:CC:425:LEU:O	44:CC:429:GLU:HG3	2.18	0.43
45:CD:325:GLU:HA	45:CD:328:GLU:CG	2.46	0.43
45:CD:330:MET:HE1	45:CD:333:VAL:HG11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:172:TYR:CD2	44:CE:203:MET:SD	3.12	0.43
45:CF:87:PRO:HD2	45:DF:281:TYR:CD2	2.54	0.43
45:CF:199:CYS:O	45:CF:265:PHE:HA	2.19	0.43
45:CJ:313:ALA:O	45:CJ:349:ILE:HA	2.18	0.43
44:CK:91:GLN:HG3	44:CK:92:LEU:CD1	2.40	0.43
44:CK:230:LEU:O	44:CK:234:VAL:HG23	2.19	0.43
45:CL:60:VAL:HG13	45:CL:60:VAL:O	2.18	0.43
45:CL:294:PHE:HE2	45:CL:341:PHE:CE2	2.37	0.43
44:CM:257:THR:HG22	45:CN:397:TRP:CZ2	2.54	0.43
45:CN:209:ASP:OD1	45:CN:213:ARG:HB2	2.19	0.43
44:DA:2:ARG:HD2	44:DA:242:LEU:HB3	2.00	0.43
44:DA:70:LEU:HD13	44:DA:110:ILE:HD12	2.00	0.43
44:DA:225:THR:O	44:DA:229:ARG:N	2.45	0.43
44:DA:296:PHE:CD2	44:DA:335:ILE:HD12	2.53	0.43
45:DB:238:CYS:HA	45:DB:241:ARG:NH2	2.34	0.43
45:DB:260:PHE:HA	44:DC:406:HIS:NE2	2.34	0.43
45:DD:22:GLU:HG2	45:DD:81:PHE:CD1	2.54	0.43
45:DD:256:ASN:C	45:DD:257:LEU:HD12	2.39	0.43
44:DE:167:LEU:HD21	44:DE:252:ILE:HD11	2.00	0.43
44:DE:188:ILE:HG23	44:DE:425:LEU:HD11	2.00	0.43
45:DF:192:LEU:HD12	45:DF:196:ALA:HB2	2.00	0.43
45:DF:332:ASN:O	45:DF:336:LYS:HG2	2.18	0.43
44:DG:74:VAL:HG23	44:DG:75:ILE:HD13	2.01	0.43
44:DG:370:LYS:HG3	44:DG:370:LYS:O	2.19	0.43
45:DH:183:TYR:CE1	45:DH:388:MET:HG2	2.54	0.43
44:DM:182:VAL:HG23	44:DM:185:TYR:CD2	2.54	0.43
44:DM:203:MET:O	44:DM:302:MET:HE3	2.19	0.43
45:DN:100:ASN:HD22	45:DN:103:LYS:CB	2.31	0.43
45:EB:273:LEU:N	45:EB:282:ARG:HH12	2.17	0.43
44:EC:145:THR:HG23	44:EC:146:GLY:N	2.34	0.43
45:ED:286:VAL:CB	45:ED:325:GLU:HG2	2.48	0.43
45:ED:419:VAL:O	45:ED:422:TYR:N	2.51	0.43
44:EE:169:PHE:CE2	44:EE:202:VAL:HB	2.54	0.43
44:EE:333:ALA:HA	44:EE:336:LYS:HZ3	1.80	0.43
45:EF:87:PRO:HD2	45:FF:281:TYR:CD2	2.53	0.43
44:EG:66:VAL:O	44:EG:66:VAL:HG13	2.19	0.43
44:EG:177:VAL:HB	44:EG:207:GLU:HG2	2.01	0.43
45:EH:318:ARG:NH2	45:EH:356:ILE:O	2.52	0.43
44:EI:170:THR:O	44:EI:204:LEU:HB2	2.19	0.43
44:EI:213:CYS:O	44:EI:217:LEU:HB2	2.18	0.43
44:EI:310:GLY:O	44:EI:311:LYS:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EI:363:VAL:HG22	44:EI:364:PRO:HD2	1.99	0.43
45:EJ:135:ILE:HG22	45:EJ:137:HIS:ND1	2.34	0.43
45:EJ:136:THR:CG2	45:EJ:233:MET:HE1	2.49	0.43
44:EK:2:ARG:HD3	44:EK:2:ARG:N	2.34	0.43
45:EN:24:ILE:HA	45:EN:27:GLU:CG	2.46	0.43
45:FB:420:SER:O	45:FB:423:GLN:HG3	2.18	0.43
45:FB:421:GLU:O	45:FB:424:GLN:N	2.52	0.43
44:FC:89:PRO:HD3	44:GC:283:HIS:CD2	2.53	0.43
44:FC:210:TYR:CE2	45:FD:324:LYS:HA	2.51	0.43
44:FC:287:SER:O	44:FC:291:ILE:HG23	2.19	0.43
45:FD:217:LEU:HD12	45:FD:217:LEU:O	2.17	0.43
44:FG:195:LEU:HD11	44:FG:264:ARG:CZ	2.48	0.43
44:FG:244:PHE:CZ	44:FG:358:GLN:HG2	2.53	0.43
44:FG:384:ILE:O	44:FG:387:VAL:HG22	2.19	0.43
44:FG:387:VAL:O	44:FG:390:ARG:HG3	2.18	0.43
44:FK:262:TYR:CE2	44:FK:435:VAL:HG22	2.54	0.43
44:FK:289:ALA:HB1	44:FK:293:ASN:ND2	2.34	0.43
45:FL:294:PHE:HE1	45:FL:367:PHE:CE1	2.36	0.43
45:FL:296:ALA:HB2	45:FL:306:ARG:NH2	2.34	0.43
44:FM:268:MET:HB2	44:FM:379:SER:O	2.19	0.43
44:GA:326:LYS:HZ3	45:GD:212:PHE:HE2	1.65	0.43
44:GA:335:ILE:HD12	44:GA:335:ILE:H	1.84	0.43
45:GB:391:ARG:HA	45:GB:391:ARG:HD2	1.76	0.43
44:GC:52:PHE:HZ	44:GC:239:THR:HG21	1.84	0.43
45:GD:318:ARG:HA	45:GD:354:CYS:O	2.18	0.43
44:GE:257:THR:HG22	45:GH:397:TRP:CH2	2.54	0.43
44:GE:260:VAL:HG12	44:GE:262:TYR:O	2.18	0.43
45:GF:274:THR:HG22	45:GF:275:SER:O	2.18	0.43
44:GG:220:GLU:O	44:GG:221:ARG:HD2	2.18	0.43
45:GH:58:ARG:NH2	45:HH:281:TYR:CD1	2.86	0.43
45:GH:86:ARG:HE	45:GH:87:PRO:CD	2.31	0.43
45:GJ:163:ILE:CD1	45:GJ:250:LEU:HB2	2.48	0.43
45:GJ:167:PHE:HD2	45:GJ:233:MET:CE	2.31	0.43
44:GK:111:GLY:HA2	44:GK:149:LEU:HD11	2.00	0.43
44:GK:311:LYS:HE2	44:GK:311:LYS:HA	2.01	0.43
44:GK:384:ILE:O	44:GK:384:ILE:HG13	2.19	0.43
45:GL:352:SER:C	45:GL:353:ILE:HD12	2.39	0.43
44:GM:3:GLU:O	44:GM:133:GLN:HB2	2.18	0.43
44:GM:5:ILE:HG22	44:GM:7:ILE:CD1	2.49	0.43
44:GM:195:LEU:HA	44:GM:266:HIS:HE2	1.84	0.43
44:GM:217:LEU:C	44:GM:219:ILE:HD12	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:13:GLY:HA2	45:GN:16:ILE:HD12	2.01	0.43
44:HA:384:ILE:HG13	44:HA:387:VAL:HG21	2.00	0.43
45:HD:40:SER:HG	45:HD:43:GLN:HG3	1.83	0.43
45:HD:208:TYR:HE1	45:HD:225:LEU:HD11	1.83	0.43
45:HD:323:THR:O	45:HD:326:VAL:N	2.51	0.43
44:HE:5:ILE:HD11	44:HE:135:PHE:CE1	2.54	0.43
44:HE:24:PHE:HZ	44:HE:235:ILE:CG2	2.32	0.43
44:HG:186:ASN:OD1	44:HG:187:SER:N	2.51	0.43
45:HH:62:ARG:O	45:HH:62:ARG:HG3	2.18	0.43
45:HH:166:THR:OG1	45:HH:198:GLU:O	2.32	0.43
44:HI:224:TYR:HD1	45:HJ:323:THR:CG2	2.27	0.43
44:HI:247:ALA:HB1	45:HL:222:TYR:CE2	2.54	0.43
45:HJ:115:SER:O	45:HJ:119:VAL:HG13	2.19	0.43
44:HK:2:ARG:O	44:HK:51:THR:HA	2.19	0.43
45:HL:304:ASP:O	45:HL:373:ALA:HB1	2.19	0.43
45:HL:316:LEU:HD13	45:HL:352:SER:HB3	2.01	0.43
44:HM:243:ARG:HG3	44:HM:244:PHE:HD1	1.84	0.43
44:HM:313:MET:N	44:HM:380:ASN:O	2.50	0.43
44:HM:317:MET:N	44:HM:352:LYS:O	2.27	0.43
45:HN:12:CYS:HB2	48:HN:501:GDP:C8	2.54	0.43
45:HN:272:PRO:CG	45:HN:289:LEU:HD21	2.49	0.43
44:IA:189:LEU:HD11	44:IA:418:PHE:CE1	2.54	0.43
44:IA:297:GLU:O	44:IA:300:ASN:HB2	2.19	0.43
45:IB:382:ALA:O	45:IB:386:THR:HG22	2.19	0.43
44:IC:11:GLN:HA	44:IC:14:ILE:HD12	2.01	0.43
44:IE:176:GLN:HG3	45:IF:331:LEU:CD2	2.49	0.43
44:IG:88:HIS:HB3	44:IG:91:GLN:HG2	2.00	0.43
44:IG:264:ARG:HH11	44:IG:264:ARG:HG2	1.83	0.43
45:IJ:86:ARG:NH2	45:IJ:87:PRO:HD2	2.33	0.43
45:IJ:204:ASN:OD1	45:IJ:204:ASN:C	2.58	0.43
44:IK:296:PHE:CE2	44:IK:335:ILE:HG21	2.53	0.43
45:IL:326:VAL:O	45:IL:330:MET:HG2	2.19	0.43
44:IM:11:GLN:NE2	45:IN:247:ASN:OD1	2.51	0.43
44:IM:317:MET:HB3	44:IM:377:MET:CB	2.48	0.43
45:IN:208:TYR:HB3	45:IN:212:PHE:HE2	1.84	0.43
45:JB:2:ARG:HB2	45:JB:131:GLN:OE1	2.19	0.43
44:JC:143:GLY:HA3	46:JC:501:GTP:O2B	2.18	0.43
44:JC:195:LEU:CD2	44:JC:428:LEU:HD22	2.42	0.43
45:JD:66:MET:HB2	45:JD:91:VAL:CG2	2.49	0.43
45:JD:161:ASP:OD1	45:JD:162:ARG:N	2.52	0.43
44:JE:171:ILE:HG12	44:JE:204:LEU:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JE:268:MET:HA	44:JE:380:ASN:HA	2.00	0.43
45:JF:130:LEU:HG	45:JF:162:ARG:HG3	2.00	0.43
44:JG:75:ILE:O	44:JG:79:ARG:HG3	2.18	0.43
44:JG:93:ILE:HG21	44:JG:114:ILE:CG2	2.49	0.43
44:JG:312:TYR:O	44:JG:344:VAL:HG12	2.19	0.43
45:JH:2:ARG:CD	45:JH:240:LEU:HD22	2.47	0.43
45:JH:3:GLU:CB	45:JH:62:ARG:HH22	2.30	0.43
45:JH:68:LEU:HD12	45:JH:143:THR:OG1	2.18	0.43
44:JI:34:GLY:O	44:JI:60:LYS:HA	2.18	0.43
44:JI:311:LYS:H	44:JI:382:THR:HG22	1.83	0.43
45:JJ:274:THR:HB	45:JJ:282:ARG:HH12	1.84	0.43
45:JJ:355:ASP:OD1	45:JJ:356:ILE:HG12	2.19	0.43
44:JK:1:MET:CE	45:JN:70:PRO:HG2	2.49	0.43
44:JK:264:ARG:HD2	44:JK:431:ASP:OD2	2.19	0.43
44:JK:439:THR:HG21	45:JN:390:ARG:HH22	1.84	0.43
45:JL:316:LEU:HB2	45:JL:366:THR:CG2	2.48	0.43
44:JM:264:ARG:NH1	44:JM:431:ASP:OD2	2.51	0.43
44:JM:278:ALA:CA	44:JM:369:ALA:HB2	2.49	0.43
44:KA:223:THR:HG23	44:KA:225:THR:H	1.84	0.43
44:KA:383:ALA:O	44:KA:386:GLU:HG2	2.18	0.43
45:KB:265:PHE:CD2	45:KB:378:PHE:HZ	2.37	0.43
44:KC:247:ALA:HB1	45:KF:222:TYR:CD2	2.53	0.43
44:KC:322:ASP:OD1	44:KC:373:ARG:HG3	2.19	0.43
45:KD:263:LEU:CD2	45:KD:422:TYR:HE1	2.32	0.43
44:KE:348:PRO:HD2	45:KH:388:MET:HE1	2.01	0.43
45:KH:142:GLY:N	48:KH:501:GDP:O2B	2.52	0.43
45:KH:156:ARG:HH21	45:KH:160:PRO:HA	1.84	0.43
44:KK:348:PRO:O	44:KK:349:THR:HG23	2.18	0.43
44:KK:406:HIS:HD2	45:KL:261:PRO:HD3	1.79	0.43
45:KL:127:CYS:SG	45:KL:130:LEU:HB2	2.59	0.43
44:KM:135:PHE:HD2	44:KM:164:LYS:HZ2	1.67	0.43
44:KM:238:LEU:HD23	44:KM:238:LEU:C	2.40	0.43
44:KM:273:ALA:N	44:KM:375:VAL:O	2.45	0.43
44:LA:250:VAL:HG11	44:LA:318:MET:HE3	2.01	0.43
45:LB:80:PRO:O	45:LB:81:PHE:HB2	2.19	0.43
44:LC:267:PHE:HD2	44:LC:388:PHE:CE2	2.36	0.43
44:LC:415:GLU:O	44:LC:418:PHE:HB2	2.17	0.43
45:LD:266:PHE:CD1	45:LD:370:ASN:HB2	2.53	0.43
44:LE:183:GLU:HG2	44:LE:184:PRO:N	2.34	0.43
45:LF:218:THR:HG23	45:LF:219:THR:N	2.34	0.43
44:LG:224:TYR:HE2	45:LH:246:LEU:CD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:7:ILE:O	45:LH:7:ILE:HG13	2.18	0.43
45:LH:395:LEU:HD12	45:LH:395:LEU:O	2.19	0.43
44:LI:107:HIS:CE1	44:LI:152:LEU:HD22	2.54	0.43
44:LI:323:VAL:O	44:LI:323:VAL:HG23	2.18	0.43
45:LL:3:GLU:OE2	45:LL:127:CYS:HB3	2.19	0.43
45:LL:60:VAL:HG23	45:LL:61:PRO:HD2	2.01	0.43
45:LL:380:ARG:HA	45:LL:383:GLU:HG3	2.01	0.43
44:LM:4:VAL:CG2	44:LM:136:LEU:HD13	2.49	0.43
44:LM:63:PRO:CG	44:LM:86:LEU:HD11	2.49	0.43
44:LM:315:CYS:HA	44:LM:379:SER:HA	2.00	0.43
44:MA:104:ALA:HB2	44:MA:413:MET:HE2	2.00	0.43
44:MC:172:TYR:HB2	44:MC:203:MET:SD	2.58	0.43
45:MD:62:ARG:HG2	45:MD:123:GLU:OE1	2.19	0.43
45:MD:326:VAL:HG13	45:MD:327:ASP:N	2.34	0.43
44:ME:188:ILE:HG21	44:ME:395:PHE:CE1	2.53	0.43
44:ME:332:ILE:HG23	44:ME:351:PHE:HE1	1.84	0.43
44:MG:13:GLY:O	44:MG:16:VAL:HG12	2.19	0.43
44:MG:60:LYS:HE3	44:MG:60:LYS:HB2	1.76	0.43
44:MG:67:PHE:C	44:MG:68:LEU:HD12	2.39	0.43
44:MG:328:VAL:HG13	44:MG:329:ASN:N	2.34	0.43
44:MG:348:PRO:HB2	45:MJ:384:GLN:OE1	2.19	0.43
45:MH:20:PHE:CG	45:MH:233:MET:HE3	2.54	0.43
44:MI:7:ILE:HB	44:MI:137:VAL:HG12	2.00	0.43
44:MI:221:ARG:NH1	45:MJ:325:GLU:HB3	2.34	0.43
45:MJ:267:MET:CE	45:MJ:371:SER:HB3	2.48	0.43
45:MJ:288:GLU:O	45:MJ:291:GLN:HG3	2.18	0.43
44:MK:73:THR:CG2	45:ML:2:ARG:HH22	2.32	0.43
44:MK:186:ASN:OD1	44:MK:187:SER:N	2.52	0.43
44:MM:26:LEU:HD22	44:MM:364:PRO:HD2	2.01	0.43
45:MN:267:MET:HB2	45:MN:301:CYS:SG	2.59	0.43
44:NA:103:PHE:HD1	44:NA:147:SER:CB	2.32	0.43
44:NA:207:GLU:O	44:NA:210:TYR:HB2	2.19	0.43
44:NC:147:SER:HB2	44:NC:190:SER:OG	2.19	0.43
44:NC:291:ILE:HD13	44:NC:373:ARG:HB3	2.01	0.43
44:NC:354:GLY:C	44:NC:355:ILE:HD12	2.39	0.43
44:NE:145:THR:HG23	44:NE:146:GLY:N	2.34	0.43
44:NE:306:ASP:OD2	44:NE:308:ARG:HD2	2.19	0.43
45:NF:68:LEU:CD2	45:NF:97:ALA:HB2	2.49	0.43
44:NG:69:ASP:OD1	44:NG:69:ASP:C	2.57	0.43
44:NG:74:VAL:O	44:NG:78:VAL:HG23	2.19	0.43
45:NH:190:HIS:O	45:NH:193:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NI:96:LYS:HG2	45:NJ:1:MET:CE	2.49	0.43
44:NI:123:ARG:HH22	44:OI:293:ASN:CG	2.21	0.43
44:NI:183:GLU:HG2	44:NI:184:PRO:HD3	2.00	0.43
44:NI:339:ARG:HD2	44:NI:339:ARG:C	2.38	0.43
45:NJ:67:ASP:HB2	45:NJ:73:MET:HE3	1.99	0.43
45:NJ:270:PHE:CE2	45:NJ:273:LEU:HD21	2.54	0.43
44:NK:76:ASP:O	44:NK:80:THR:N	2.52	0.43
44:NK:155:GLU:HG2	44:NK:197:HIS:ND1	2.34	0.43
44:NK:296:PHE:HD2	44:NK:335:ILE:HD12	1.84	0.43
45:NL:214:THR:HG23	45:NL:215:LEU:N	2.34	0.43
45:NL:242:PHE:CD2	45:NL:356:ILE:HG21	2.54	0.43
45:NN:135:ILE:O	45:NN:166:THR:HA	2.19	0.43
45:NN:317:PHE:HB3	45:NN:321:MET:CE	2.49	0.43
45:NN:321:MET:HE2	45:NN:363:MET:CE	2.49	0.43
44:OA:60:LYS:HE3	44:PA:283:HIS:CE1	2.54	0.43
44:OA:93:ILE:HG22	44:OA:114:ILE:HD11	2.00	0.43
44:OA:133:GLN:O	44:OA:164:LYS:HD2	2.18	0.43
44:OC:21:TRP:HA	44:OC:24:PHE:HB2	2.01	0.43
44:OC:56:THR:HG23	44:OC:58:ALA:H	1.82	0.43
44:OC:72:PRO:O	44:OC:76:ASP:N	2.41	0.43
44:OC:155:GLU:OE1	44:OC:197:HIS:NE2	2.51	0.43
44:OC:261:PRO:HG2	44:OC:265:ILE:HB	2.00	0.43
45:OD:31:ASP:HB3	45:OD:32:PRO:CD	2.49	0.43
44:OE:11:GLN:HE21	44:OE:15:GLN:CG	2.31	0.43
44:OE:89:PRO:HG3	44:PE:280:LYS:CD	2.49	0.43
45:OF:258:ILE:CD1	45:OF:266:PHE:HZ	2.32	0.43
45:OF:287:PRO:HA	45:OF:290:THR:HG22	2.01	0.43
45:OF:327:ASP:O	45:OF:330:MET:HB2	2.18	0.43
45:OF:417:ASP:HA	45:OF:420:SER:OG	2.19	0.43
44:OG:291:ILE:HG13	44:OG:292:THR:N	2.33	0.43
44:OG:330:ALA:O	44:OG:333:ALA:HB3	2.19	0.43
45:OH:113:ILE:HA	45:OH:116:VAL:CG1	2.49	0.43
45:OH:239:CYS:SG	45:OH:248:SER:N	2.90	0.43
45:OH:341:PHE:HB3	45:OH:348:ASN:ND2	2.33	0.43
45:OH:388:MET:O	45:OH:388:MET:HG3	2.18	0.43
45:OH:418:LEU:O	45:OH:422:TYR:HB2	2.18	0.43
44:OI:8:HIS:ND1	44:OI:67:PHE:HE1	2.16	0.43
44:OI:279:GLU:OE1	44:OI:279:GLU:N	2.40	0.43
45:OJ:268:ILE:HG13	45:OJ:300:MET:CE	2.42	0.43
44:OK:184:PRO:HA	44:OK:187:SER:OG	2.19	0.43
45:OL:107:THR:OG1	45:OL:108:GLU:OE1	2.12	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:130:LEU:HD23	45:OL:130:LEU:HA	1.84	0.43
45:OL:212:PHE:O	45:OL:216:LYS:HA	2.19	0.43
44:OM:387:VAL:HG12	44:OM:390:ARG:NH1	2.33	0.43
45:ON:268:ILE:HA	45:ON:367:PHE:O	2.19	0.43
44:PA:51:THR:HG22	44:PA:52:PHE:CD2	2.54	0.43
44:PA:87:PHE:HD1	44:PA:91:GLN:NE2	2.17	0.43
44:PA:96:LYS:O	45:PB:1:MET:HE1	2.18	0.43
44:PA:104:ALA:HB1	44:PA:108:TYR:HD2	1.84	0.43
44:PC:265:ILE:HG23	44:PC:432:TYR:CE1	2.53	0.43
44:PC:320:ARG:NH2	44:PC:360:PRO:HA	2.34	0.43
44:PC:380:ASN:OD1	44:PC:380:ASN:O	2.37	0.43
45:PD:398:TYR:C	45:PD:403:MET:HB3	2.40	0.43
44:PE:253:THR:HG23	45:PH:98:GLY:CA	2.49	0.43
44:PE:269:LEU:CD1	44:PE:384:ILE:HD13	2.24	0.43
45:PF:19:LYS:HG2	45:PF:226:ASN:O	2.18	0.43
45:PF:213:ARG:HH21	45:PF:297:LYS:HB2	1.84	0.43
44:PG:22:GLU:HG3	44:PG:83:TYR:OH	2.19	0.43
44:PG:270:SER:CB	44:PG:378:ILE:HD13	2.48	0.43
44:PG:292:THR:O	44:PG:295:ALA:HB3	2.18	0.43
44:PI:253:THR:HG23	45:PL:98:GLY:CA	2.48	0.43
45:PJ:242:PHE:CD2	45:PJ:356:ILE:HG21	2.53	0.43
44:PK:71:GLU:OE1	44:PK:73:THR:OG1	2.36	0.43
45:PL:101:TRP:CE3	45:PL:187:LEU:HD13	2.53	0.43
45:PL:269:GLY:HA2	45:PL:300:MET:CE	2.48	0.43
44:PM:324:VAL:HG23	44:PM:327:ASP:H	1.84	0.43
45:PN:178:THR:CB	45:PN:181:GLU:HG3	2.27	0.43
44:QA:135:PHE:HB2	44:QA:166:LYS:HG2	2.01	0.43
44:QA:332:ILE:HA	44:QA:335:ILE:CG2	2.45	0.43
45:QB:86:ARG:HD3	45:QB:89:ASN:OD1	2.18	0.43
45:QB:325:GLU:O	45:QB:329:GLN:N	2.35	0.43
44:QC:204:LEU:HD23	44:QC:302:MET:HG3	2.00	0.43
44:QC:254:GLU:CG	45:QD:98:GLY:HA2	2.26	0.43
45:QD:48:ASN:HA	45:QD:51:TYR:O	2.19	0.43
45:QD:73:MET:CE	45:QD:77:ARG:HH22	2.32	0.43
44:QE:88:HIS:ND1	44:QE:90:GLU:HG2	2.32	0.43
44:QE:262:TYR:CE1	45:QF:393:ALA:HB2	2.53	0.43
45:QF:259:PRO:HB3	44:QG:404:PHE:CE2	2.54	0.43
44:QG:63:PRO:HG2	44:QG:86:LEU:HG	1.99	0.43
44:QG:202:VAL:HG22	44:QG:268:MET:SD	2.59	0.43
44:QG:287:SER:O	44:QG:291:ILE:HG12	2.18	0.43
44:QG:325:PRO:HG2	45:QH:222:TYR:HE2	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QH:34:GLY:O	45:QH:58:ARG:HA	2.19	0.43
45:QH:44:LEU:HD23	45:QH:47:ILE:HD12	2.01	0.43
44:QI:239:THR:O	44:QI:243:ARG:HG2	2.18	0.43
45:QJ:221:THR:C	45:QJ:225:LEU:HG	2.39	0.43
45:QJ:343:GLU:OE2	45:QJ:430:ALA:N	2.37	0.43
44:QK:173:PRO:CG	44:QK:391:LEU:HD21	2.48	0.43
45:QL:47:ILE:HD13	45:QL:59:TYR:CZ	2.54	0.43
45:QL:173:PRO:HG3	45:QL:380:ARG:HD3	1.99	0.43
45:QL:252:LYS:HZ2	44:QM:101:ASN:HB2	1.84	0.43
44:QM:1:MET:HE1	45:QN:70:PRO:HG2	2.01	0.43
44:QM:269:LEU:HB2	44:QM:303:ALA:CB	2.48	0.43
45:QN:268:ILE:O	45:QN:300:MET:HB2	2.19	0.43
44:RA:137:VAL:HG12	44:RA:167:LEU:O	2.19	0.43
44:RA:186:ASN:OD1	44:RA:187:SER:N	2.52	0.43
44:RA:248:LEU:O	44:RA:248:LEU:HD23	2.19	0.43
44:RA:353:VAL:HG12	45:RB:177:ASP:HB3	2.00	0.43
44:RA:393:HIS:CD2	44:RA:397:LEU:HD11	2.54	0.43
45:RB:66:MET:SD	45:RB:116:VAL:HB	2.59	0.43
45:RB:92:PHE:HD2	45:RB:93:GLY:O	2.01	0.43
44:RC:136:LEU:HD22	44:RC:169:PHE:HE2	1.84	0.43
44:RC:210:TYR:CE1	44:RC:227:LEU:HD11	2.54	0.43
45:RD:139:LEU:HD23	45:RD:189:VAL:HG23	2.01	0.43
45:RD:323:THR:O	45:RD:326:VAL:HB	2.18	0.43
45:RD:414:ASN:HA	45:RD:417:ASP:CB	2.48	0.43
44:RE:88:HIS:HB3	44:RE:91:GLN:HG2	2.01	0.43
44:RE:174:SER:OG	44:RE:207:GLU:HB2	2.19	0.43
44:RE:262:TYR:CE1	45:RF:393:ALA:HA	2.54	0.43
45:RF:68:LEU:HG	45:RF:96:GLY:CA	2.48	0.43
45:RF:324:LYS:HB2	44:RG:210:TYR:CE1	2.54	0.43
44:RG:108:TYR:HD2	44:RG:413:MET:HE3	1.83	0.43
45:RH:14:ASN:ND2	45:RH:67:ASP:HB2	2.33	0.43
45:RH:95:THR:HG21	45:RH:108:GLU:CD	2.39	0.43
45:RH:375:GLN:O	45:RH:379:LYS:HG3	2.18	0.43
44:RI:145:THR:HG23	44:RI:146:GLY:N	2.34	0.43
45:RJ:103:LYS:HD2	45:RJ:103:LYS:O	2.19	0.43
44:RK:387:VAL:HG23	44:RK:388:PHE:N	2.34	0.43
45:RL:293:MET:HA	45:RL:365:VAL:HG11	2.00	0.43
44:RM:243:ARG:HD2	44:RM:244:PHE:CE2	2.54	0.43
45:RN:2:ARG:HB2	45:RN:131:GLN:OE1	2.18	0.43
45:RN:67:ASP:OD2	45:RN:69:GLU:HG3	2.18	0.43
44:SA:53:PHE:O	44:SA:64:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:3:GLU:CB	45:SB:49:VAL:HA	2.48	0.43
45:SB:151:LEU:O	45:SB:154:LYS:N	2.52	0.43
45:SB:224:ASP:O	45:SB:227:HIS:HB3	2.19	0.43
44:SC:195:LEU:HD12	44:SC:267:PHE:CE1	2.48	0.43
44:SC:311:LYS:HB3	44:SC:343:PHE:C	2.39	0.43
45:SD:117:LEU:O	45:SD:121:ARG:HG2	2.18	0.43
44:SE:316:SER:CB	44:SE:352:LYS:HE3	2.49	0.43
45:SF:313:ALA:HA	45:SF:369:GLY:HA2	2.00	0.43
45:SF:376:GLU:HG3	45:SF:380:ARG:HH21	1.84	0.43
45:SH:73:MET:HG3	45:SH:74:ASP:H	1.83	0.43
45:SH:295:ASP:OD1	45:SH:297:LYS:N	2.37	0.43
45:SH:303:ALA:CB	45:SH:374:ILE:HA	2.48	0.43
44:SI:292:THR:HG23	44:SI:293:ASN:N	2.34	0.43
45:SJ:113:ILE:CD1	45:SJ:150:LEU:HD22	2.43	0.43
45:SJ:318:ARG:N	45:SJ:364:ALA:O	2.52	0.43
44:SK:165:SER:HA	44:SK:199:ASP:OD2	2.19	0.43
44:SK:437:ILE:HG13	44:SK:437:ILE:O	2.18	0.43
45:SL:4:ILE:HD11	45:SL:50:TYR:OH	2.18	0.43
45:SL:173:PRO:CD	45:SL:380:ARG:NE	2.81	0.43
45:SL:358:PRO:HD2	45:SL:361:LEU:HB2	1.99	0.43
44:SM:101:ASN:HB3	44:SM:182:VAL:CG1	2.49	0.43
44:SM:200:VAL:HG13	44:SM:268:MET:HE1	2.00	0.43
44:SM:284:GLU:OE1	44:SM:285:GLN:N	2.51	0.43
44:TA:276:ILE:HG23	44:TA:281:ALA:HB2	2.01	0.43
45:TB:322:SER:HB3	44:TC:221:ARG:CD	2.48	0.43
45:TD:10:GLY:HA3	48:TD:501:GDP:O1B	2.19	0.43
45:TD:150:LEU:HD23	45:TD:154:LYS:HG3	2.01	0.43
45:TF:1:MET:C	45:TF:2:ARG:HG2	2.39	0.43
45:TF:40:SER:HG	45:TF:43:GLN:HG3	1.81	0.43
45:TH:116:VAL:HG13	45:TH:117:LEU:N	2.33	0.43
45:TH:323:THR:HG22	45:TH:353:ILE:HG12	1.99	0.43
44:TI:6:SER:C	44:TI:7:ILE:HD13	2.40	0.43
44:TI:16:VAL:HG23	44:TI:228:ASN:HD22	1.84	0.43
44:TI:129:CYS:HB2	44:TI:132:LEU:CD2	2.44	0.43
44:TI:231:ILE:O	44:TI:234:VAL:N	2.51	0.43
44:TI:296:PHE:HD2	44:TI:335:ILE:HD11	1.83	0.43
45:TJ:245:GLN:OE1	45:TJ:246:LEU:CD1	2.62	0.43
45:TJ:294:PHE:CE1	45:TJ:333:VAL:HG11	2.54	0.43
45:TJ:305:PRO:HB3	45:TJ:310:TYR:OH	2.19	0.43
44:TK:204:LEU:O	44:TK:205:ASP:C	2.57	0.43
45:TL:327:ASP:OD2	44:TM:177:VAL:HG11	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:9:VAL:HG13	44:TM:139:ASN:CG	2.38	0.43
44:TM:35:GLN:NE2	44:TM:60:LYS:HB3	2.34	0.43
45:TN:68:LEU:HD12	45:TN:69:GLU:N	2.33	0.43
45:TN:135:ILE:HB	45:TN:166:THR:HG22	2.01	0.43
45:TN:171:PRO:CG	45:TN:181:GLU:HB3	2.48	0.43
45:UB:202:ILE:HG23	45:UB:300:MET:CE	2.49	0.43
45:UB:237:THR:HB	45:UB:250:LEU:HD21	2.00	0.43
44:UC:23:LEU:HD22	44:UC:233:GLN:HE22	1.83	0.43
45:UD:258:ILE:HG13	45:UD:266:PHE:CZ	2.53	0.43
44:UE:187:SER:HA	44:UE:190:SER:OG	2.19	0.43
45:UF:97:ALA:HB3	45:UF:143:THR:CB	2.32	0.43
45:UF:255:VAL:HG21	44:UG:100:ALA:CB	2.49	0.43
44:UG:88:HIS:HB3	44:UG:91:GLN:NE2	2.34	0.43
44:UG:233:GLN:C	44:UG:236:SER:H	2.22	0.43
44:UG:352:LYS:HA	45:UH:177:ASP:O	2.18	0.43
45:UH:68:LEU:HD23	45:UH:97:ALA:CA	2.49	0.43
45:UH:175:VAL:O	45:UH:175:VAL:HG23	2.19	0.43
45:UH:263:LEU:HD23	45:UH:422:TYR:HE1	1.82	0.43
45:UH:316:LEU:HB2	45:UH:366:THR:HG23	2.01	0.43
44:UI:66:VAL:HG21	44:UI:122:ILE:CD1	2.48	0.43
44:UI:101:ASN:HA	44:UI:144:GLY:N	2.25	0.43
44:UI:264:ARG:NE	44:UI:264:ARG:HA	2.34	0.43
44:UI:340:THR:HG23	44:UI:341:ILE:HG13	2.01	0.43
44:UK:13:GLY:O	44:UK:16:VAL:HG12	2.19	0.43
44:UK:134:GLY:HA3	44:UK:165:SER:HG	1.81	0.43
44:UK:261:PRO:HD2	44:UK:313:MET:CE	2.36	0.43
45:UL:99:ASN:HA	45:UL:142:GLY:CA	2.49	0.43
45:UL:131:GLN:HG3	45:UL:163:ILE:HD13	2.00	0.43
45:UL:332:ASN:HD21	45:UL:336:LYS:NZ	2.17	0.43
44:UM:7:ILE:HD12	44:UM:66:VAL:CG1	2.48	0.43
44:UM:240:ALA:CB	44:UM:356:ASN:HD22	2.16	0.43
44:UM:291:ILE:HA	44:UM:294:SER:HB2	1.99	0.43
44:UM:405:VAL:O	44:UM:405:VAL:HG12	2.19	0.43
44:VC:53:PHE:HE2	44:VC:63:PRO:HG3	1.84	0.43
44:VC:176:GLN:NE2	44:VC:207:GLU:OE2	2.51	0.43
44:VC:252:ILE:HA	44:VC:255:PHE:CE2	2.54	0.43
45:VD:127:CYS:SG	45:VD:130:LEU:HB2	2.59	0.43
45:VD:135:ILE:CB	45:VD:166:THR:HG22	2.42	0.43
45:VD:337:ASN:O	45:VD:340:TYR:N	2.42	0.43
44:VE:203:MET:CE	44:VE:384:ILE:HG22	2.48	0.43
46:VG:501:GTP:N3	46:VG:501:GTP:H2'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VH:52:ASN:O	45:VH:59:TYR:HD2	2.02	0.43
45:VH:258:ILE:HG23	45:VH:266:PHE:HZ	1.83	0.43
44:VI:73:THR:HB	45:VJ:247:ASN:HD22	1.84	0.43
45:VJ:23:VAL:HG21	45:VJ:230:SER:CB	2.49	0.43
44:VK:67:PHE:C	44:VK:68:LEU:HD12	2.39	0.43
44:VK:175:PRO:HB3	44:VK:390:ARG:HD3	2.00	0.43
44:VK:209:ILE:HG22	44:VK:227:LEU:CD2	2.48	0.43
44:VK:210:TYR:O	44:VK:213:CYS:N	2.51	0.43
44:VK:362:VAL:CG1	44:VK:370:LYS:HD3	2.49	0.43
45:VL:117:LEU:HD21	45:VL:121:ARG:HH22	1.84	0.43
45:VL:200:MET:CE	45:VL:368:VAL:HG11	2.49	0.43
45:VL:221:THR:O	45:VL:224:ASP:N	2.51	0.43
45:VL:372:THR:O	45:VL:375:GLN:OE1	2.35	0.43
44:VM:224:TYR:CE2	45:VN:246:LEU:HD11	2.54	0.43
45:VN:67:ASP:OD1	45:VN:143:THR:HG21	2.19	0.43
45:VN:313:ALA:HB3	45:VN:349:ILE:CG1	2.47	0.43
45:VN:349:ILE:HG22	45:VN:350:LYS:N	2.34	0.43
45:VN:403:MET:CE	45:VN:403:MET:HA	2.48	0.43
44:WA:294:SER:HA	44:WA:297:GLU:CG	2.38	0.43
45:WB:217:LEU:HD11	45:WB:220:PRO:CA	2.49	0.43
44:WC:183:GLU:HG2	44:WC:184:PRO:N	2.34	0.43
44:WE:14:ILE:HD12	44:WE:69:ASP:OD2	2.19	0.43
44:WE:334:THR:O	44:WE:337:THR:HB	2.19	0.43
44:WG:313:MET:HE3	44:WG:381:SER:CA	2.48	0.43
45:WH:45:GLU:C	45:WH:46:ARG:HG2	2.39	0.43
44:WK:122:ILE:HG22	44:WK:161:TYR:CZ	2.54	0.43
44:WK:167:LEU:HD12	44:WK:167:LEU:HA	1.81	0.43
44:WK:194:LEU:H	44:WK:194:LEU:HD23	1.83	0.43
44:WK:221:ARG:H	44:WK:221:ARG:HD3	1.83	0.43
44:WM:22:GLU:HG3	44:WM:83:TYR:CZ	2.53	0.43
44:WM:278:ALA:N	44:WM:369:ALA:HB2	2.34	0.43
45:WN:7:ILE:HB	45:WN:135:ILE:CD1	2.46	0.43
45:WN:61:PRO:HD2	45:WN:84:LEU:O	2.19	0.43
45:WN:374:ILE:HD12	45:WN:378:PHE:CE2	2.54	0.43
7:0F:68:PHE:CD1	45:ED:284:LEU:HD12	2.54	0.43
5:1D:20:LYS:HZ1	45:CF:55:THR:HA	1.84	0.43
18:1F:151:MET:HB3	45:GL:115:SER:HB2	1.99	0.43
20:1J:303:ARG:O	44:IK:279:GLU:HB2	2.17	0.43
22:1L:161:PHE:HE1	44:CI:219:ILE:HD11	1.84	0.43
26:1R:152:LEU:C	45:AF:78:ALA:HB1	2.39	0.43
26:1R:300:LYS:N	45:CD:78:ALA:HB1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1V:24:ARG:CB	44:MI:430:LYS:HD3	2.49	0.43
2:2A:36:ARG:HH12	45:MJ:356:ILE:CG1	2.26	0.43
16:2X:49:ILE:CG1	44:MI:282:TYR:HD2	2.29	0.43
2:3A:137:GLN:NE2	44:AM:18:ASN:HD21	2.16	0.43
14:3U:226:ILE:CG2	44:WK:43:GLY:HA2	2.47	0.43
35:4R:81:ILE:H	44:ME:35:GLN:HE22	1.65	0.43
35:4R:108:TYR:HH	45:BH:227:HIS:HE2	1.56	0.43
35:4R:391:PHE:HB2	45:EF:276:ARG:NE	2.34	0.43
35:4R:425:ARG:HH12	44:EE:40:LYS:NZ	2.15	0.43
37:5B:85:ARG:HH21	44:NE:82:THR:CB	2.29	0.43
37:5D:26:LYS:HZ3	45:KN:395:LEU:HA	1.84	0.43
38:5H:93:PHE:O	38:5H:97:ARG:HG3	2.19	0.43
35:5R:256:LEU:HD11	35:5R:359:TRP:HE3	1.83	0.43
35:5R:291:LYS:HZ3	45:DJ:218:THR:HG21	1.82	0.43
40:6F:43:GLU:CG	40:6F:56:LEU:HA	2.49	0.43
41:6G:271:TYR:HD2	41:6G:272:LYS:HZ1	1.67	0.43
11:6Q:17:ILE:HG13	45:WN:125:GLU:OE2	2.18	0.43
11:6Q:83:LEU:C	11:6Q:85:LYS:HG2	2.39	0.43
11:6Q:103:PHE:CZ	11:6Q:143:ALA:HB2	2.53	0.43
35:6R:71:LYS:HD3	35:6R:71:LYS:HA	1.87	0.43
35:6R:246:GLN:NE2	44:BM:58:ALA:C	2.65	0.43
35:6R:323:LEU:HD21	45:CN:276:ARG:HH11	1.60	0.43
35:6R:538:PHE:HE1	35:6R:578:TYR:HD1	1.56	0.43
35:7R:258:PHE:CD1	35:7R:352:CYS:HB3	2.54	0.43
35:7R:302:LEU:HD11	35:7R:305:CYS:HA	2.00	0.43
35:7R:311:LYS:HE3	35:7R:311:LYS:HA	2.01	0.43
35:7R:554:LYS:HE2	35:7R:560:ARG:HH22	1.84	0.43
45:AD:51:TYR:O	45:AD:62:ARG:NH1	2.52	0.43
45:AD:65:LEU:HD21	45:AD:85:PHE:HE2	1.83	0.43
45:AD:217:LEU:O	45:AD:217:LEU:HD12	2.19	0.43
44:AE:66:VAL:HG12	44:AE:68:LEU:CD2	2.49	0.43
44:AE:271:SER:HB2	44:AE:377:MET:CG	2.48	0.43
45:AF:172:SER:OG	45:AF:205:GLU:HB2	2.19	0.43
44:AG:271:SER:HA	44:AG:302:MET:HG3	2.00	0.43
44:AG:363:VAL:CG2	44:AG:364:PRO:HD2	2.48	0.43
45:AJ:12:CYS:O	45:AJ:16:ILE:HG22	2.19	0.43
45:AJ:60:VAL:CG2	45:AJ:86:ARG:HB3	2.46	0.43
45:AJ:396:HIS:CE1	45:AJ:397:TRP:CZ3	3.06	0.43
44:AK:68:LEU:HD21	44:AK:118:CYS:CB	2.49	0.43
44:AK:388:PHE:HE1	44:AK:428:LEU:HD21	1.83	0.43
44:AM:210:TYR:CE2	45:AN:324:LYS:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AM:224:TYR:O	44:AM:228:ASN:OD1	2.37	0.43
45:AN:3:GLU:CG	45:AN:62:ARG:HH22	2.16	0.43
45:AN:326:VAL:HG23	45:AN:327:ASP:N	2.34	0.43
44:BA:88:HIS:HE1	44:BA:90:GLU:HG2	1.77	0.43
45:BB:73:MET:CE	45:BB:92:PHE:HB3	2.49	0.43
44:BC:52:PHE:O	44:BC:53:PHE:HD1	2.02	0.43
44:BC:255:PHE:O	44:BC:259:LEU:HB2	2.19	0.43
45:BD:66:MET:SD	45:BD:151:LEU:HD13	2.59	0.43
45:BD:102:ALA:HB3	45:BD:401:GLU:OE1	2.19	0.43
44:BE:363:VAL:O	44:BE:363:VAL:HG13	2.18	0.43
44:BE:389:SER:HA	44:BE:429:GLU:OE2	2.19	0.43
44:BG:74:VAL:HG13	44:BG:75:ILE:N	2.34	0.43
44:BI:181:VAL:HG12	45:BJ:256:ASN:CG	2.40	0.43
45:BJ:77:ARG:HH22	45:BJ:83:GLN:HG3	1.83	0.43
44:BK:280:LYS:O	44:BK:280:LYS:HG2	2.19	0.43
44:BK:352:LYS:HD2	45:BN:177:ASP:O	2.19	0.43
44:BK:407:TRP:HZ3	45:BL:255:VAL:CA	2.32	0.43
45:BL:10:GLY:HA2	45:BL:143:THR:CG2	2.49	0.43
45:BL:216:LYS:HB3	45:BL:275:SER:OG	2.19	0.43
45:BL:248:SER:CA	45:BL:252:LYS:HD3	2.21	0.43
45:BL:405:GLU:HA	45:BL:408:PHE:CE2	2.54	0.43
44:BM:287:SER:O	44:BM:290:GLU:HG2	2.19	0.43
44:CA:81:GLY:O	44:CA:84:ARG:NH2	2.51	0.43
44:CA:89:PRO:CD	44:DA:280:LYS:CE	2.96	0.43
44:CA:174:SER:HB3	44:CA:207:GLU:HB2	2.00	0.43
44:CA:260:VAL:HG13	44:CA:262:TYR:O	2.18	0.43
44:CA:273:ALA:CB	44:CA:274:PRO:HA	2.37	0.43
44:CA:439:THR:HB	45:CB:390:ARG:HH21	1.83	0.43
45:CB:91:VAL:HG21	45:CB:116:VAL:HB	2.00	0.43
45:CB:294:PHE:CD2	45:CB:333:VAL:HG11	2.54	0.43
44:CC:54:SER:HB3	44:CC:64:ARG:NH2	2.34	0.43
44:CC:56:THR:HG23	44:CC:58:ALA:H	1.84	0.43
44:CC:267:PHE:HD2	44:CC:388:PHE:HZ	1.67	0.43
45:CD:19:LYS:O	45:CD:22:GLU:HB2	2.18	0.43
45:CD:258:ILE:HD12	45:CD:264:HIS:HA	2.00	0.43
44:CE:5:ILE:HG22	44:CE:6:SER:N	2.34	0.43
44:CE:259:LEU:HD23	44:CE:259:LEU:H	1.83	0.43
44:CG:26:LEU:HD23	44:CG:363:VAL:CA	2.42	0.43
44:CG:26:LEU:O	44:CG:26:LEU:HD12	2.19	0.43
45:CH:60:VAL:HG21	45:CH:86:ARG:HE	1.84	0.43
45:CH:145:SER:O	45:CH:149:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:192:LEU:HD11	45:CH:196:ALA:HB2	2.01	0.43
44:CI:110:ILE:HG23	44:CI:111:GLY:N	2.33	0.43
44:CI:276:ILE:HD11	44:CI:281:ALA:HA	2.00	0.43
45:CJ:389:PHE:HE1	45:CJ:408:PHE:CB	2.31	0.43
44:CK:171:ILE:HD12	44:CK:204:LEU:O	2.19	0.43
44:CK:209:ILE:CD1	44:CK:302:MET:HB2	2.49	0.43
44:CK:230:LEU:HD11	44:CK:275:ILE:HD13	1.98	0.43
45:CL:117:LEU:HA	45:CL:120:VAL:HG12	1.99	0.43
45:CL:287:PRO:O	45:CL:290:THR:HG22	2.19	0.43
44:CM:89:PRO:CB	44:DM:280:LYS:HD2	2.49	0.43
44:CM:269:LEU:CD1	44:CM:303:ALA:HB3	2.49	0.43
45:CN:374:ILE:HD11	45:CN:422:TYR:CZ	2.54	0.43
44:DA:36:MET:HG2	44:DA:61:HIS:NE2	2.34	0.43
44:DA:103:PHE:HA	44:DA:144:GLY:CA	2.49	0.43
45:DB:233:MET:O	45:DB:236:VAL:HG23	2.19	0.43
45:DB:296:ALA:CA	45:DB:305:PRO:HG2	2.48	0.43
45:DD:269:GLY:CA	45:DD:300:MET:HE1	2.48	0.43
45:DD:300:MET:SD	45:DD:300:MET:N	2.92	0.43
44:DE:172:TYR:CB	44:DE:173:PRO:HD2	2.41	0.43
44:DE:183:GLU:HG2	44:DE:184:PRO:CD	2.49	0.43
44:DE:233:GLN:O	44:DE:236:SER:N	2.51	0.43
45:DF:325:GLU:CA	45:DF:328:GLU:HG2	2.48	0.43
44:DG:111:GLY:HA2	44:DG:149:LEU:HD11	2.00	0.43
44:DG:216:ASN:HB3	44:DG:275:ILE:HG22	2.01	0.43
45:DH:343:GLU:OE2	45:DH:430:ALA:N	2.51	0.43
44:DI:13:GLY:C	44:DI:16:VAL:HG12	2.39	0.43
44:DI:199:ASP:O	44:DI:266:HIS:HB2	2.18	0.43
44:DI:433:GLU:O	44:DI:437:ILE:HG23	2.19	0.43
45:DJ:86:ARG:NH2	45:EJ:278:SER:O	2.52	0.43
45:DJ:228:LEU:HD23	45:DJ:228:LEU:O	2.18	0.43
45:DJ:257:LEU:HD21	45:DJ:368:VAL:HG11	2.01	0.43
45:DJ:267:MET:HE3	45:DJ:310:TYR:OH	2.19	0.43
45:DJ:345:ILE:O	45:DJ:345:ILE:CG2	2.66	0.43
45:DJ:423:GLN:NE2	45:DJ:427:ASP:OD2	2.52	0.43
44:DK:208:ALA:HB2	44:DK:304:LYS:HG3	1.99	0.43
44:DK:298:PRO:HG3	44:DK:308:ARG:NE	2.34	0.43
44:DK:346:TRP:CZ3	45:DL:394:PHE:HE1	2.37	0.43
45:DL:169:VAL:O	45:DL:169:VAL:HG23	2.18	0.43
45:DL:221:THR:CG2	45:DL:224:ASP:H	2.24	0.43
45:DL:242:PHE:HD2	45:DL:356:ILE:HB	1.76	0.43
45:DN:4:ILE:HG22	45:DN:131:GLN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:14:ASN:OD1	45:DN:65:LEU:HG	2.19	0.43
44:EA:315:CYS:HA	44:EA:379:SER:CA	2.48	0.43
45:EB:100:ASN:HD21	45:EB:102:ALA:HB3	1.83	0.43
44:EE:7:ILE:HB	44:EE:137:VAL:CB	2.48	0.43
44:EE:11:GLN:CD	44:EE:74:VAL:HG21	2.39	0.43
44:EE:276:ILE:HG12	44:EE:281:ALA:HA	2.01	0.43
45:EF:208:TYR:O	45:EF:211:CYS:HB2	2.18	0.43
45:EH:166:THR:O	45:EH:200:MET:HA	2.19	0.43
44:EI:4:VAL:CG1	44:EI:52:PHE:HE1	2.31	0.43
44:EI:258:ASN:HD21	45:EJ:178:THR:HG23	1.84	0.43
44:EI:390:ARG:HG3	44:EI:391:LEU:N	2.33	0.43
45:EJ:103:LYS:HA	45:EJ:107:THR:HG22	1.98	0.43
45:EJ:131:GLN:OE1	45:EJ:131:GLN:HA	2.18	0.43
44:EK:166:LYS:C	44:EK:167:LEU:HD12	2.39	0.43
44:EM:183:GLU:CG	44:EM:184:PRO:HD3	2.48	0.43
45:EN:200:MET:HE1	45:EN:268:ILE:HG23	1.99	0.43
44:FA:50:ASN:O	44:FA:53:PHE:O	2.36	0.43
44:FA:296:PHE:CE2	44:FA:335:ILE:HG13	2.51	0.43
44:FA:420:GLU:HG3	44:FA:421:ALA:N	2.34	0.43
45:FB:138:SER:HB2	45:FB:169:VAL:HB	2.00	0.43
44:FC:36:MET:SD	44:FC:38:SER:N	2.92	0.43
44:FC:190:SER:O	44:FC:194:LEU:N	2.43	0.43
44:FC:208:ALA:HB3	44:FC:302:MET:O	2.19	0.43
44:FC:254:GLU:CG	45:FF:98:GLY:HA2	2.34	0.43
45:FD:105:HIS:CD2	45:FD:149:THR:HG23	2.54	0.43
45:FD:192:LEU:HD21	45:FD:199:CYS:SG	2.59	0.43
45:FD:251:ARG:HA	45:FD:251:ARG:HD3	1.73	0.43
44:FE:270:SER:HB3	44:FE:378:ILE:HD13	2.00	0.43
44:FG:124:LYS:HB2	44:FG:124:LYS:HE2	1.68	0.43
45:FH:20:PHE:O	45:FH:24:ILE:HG12	2.19	0.43
44:FI:329:ASN:HD21	45:FL:175:VAL:HG11	1.84	0.43
44:FI:377:MET:O	44:FI:378:ILE:HD13	2.18	0.43
45:FJ:62:ARG:O	45:FJ:62:ARG:CG	2.67	0.43
44:FK:18:ASN:O	44:FK:22:GLU:OE1	2.36	0.43
44:FK:349:THR:O	45:FN:179:VAL:HG23	2.18	0.43
45:FL:217:LEU:HD11	45:FL:220:PRO:HG3	2.00	0.43
45:FL:295:ASP:OD2	45:FL:297:LYS:HE2	2.19	0.43
44:FM:121:ARG:HH12	44:FM:124:LYS:NZ	2.17	0.43
45:FN:240:LEU:CD1	45:FN:250:LEU:HD23	2.37	0.43
44:GA:76:ASP:CB	45:GB:46:ARG:HH22	2.29	0.43
45:GB:103:LYS:HG3	45:GB:107:THR:HG1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GC:207:GLU:HA	44:GC:207:GLU:OE1	2.19	0.43
45:GD:86:ARG:NH1	45:GD:89:ASN:N	2.66	0.43
45:GD:105:HIS:CE1	45:GD:150:LEU:HD12	2.54	0.43
44:GE:70:LEU:HB3	44:GE:97:GLU:O	2.19	0.43
44:GE:214:ARG:HE	45:GF:324:LYS:CE	2.32	0.43
45:GF:296:ALA:O	45:GF:299:MET:HE2	2.19	0.43
45:GH:11:GLN:O	45:GH:15:GLN:N	2.43	0.43
45:GH:135:ILE:HG21	45:GH:152:ILE:HD11	2.00	0.43
45:GH:329:GLN:O	45:GH:333:VAL:HG23	2.18	0.43
44:GI:181:VAL:O	44:GI:181:VAL:HG22	2.19	0.43
45:GJ:1:MET:C	45:GJ:2:ARG:HG2	2.38	0.43
45:GJ:62:ARG:HH12	45:GJ:127:CYS:HB3	1.84	0.43
44:GK:100:ALA:HB1	45:GL:252:LYS:CA	2.37	0.43
44:GK:107:HIS:NE2	44:GK:155:GLU:OE2	2.45	0.43
44:GK:210:TYR:CG	45:GL:324:LYS:HG3	2.54	0.43
45:GL:187:LEU:HD23	45:GL:411:ALA:HB3	2.00	0.43
44:GM:183:GLU:HG2	44:GM:184:PRO:N	2.33	0.43
44:GM:306:ASP:HB3	44:GM:309:HIS:ND1	2.34	0.43
44:GM:325:PRO:HG3	44:GM:355:ILE:HD13	2.01	0.43
45:GN:143:THR:HG23	48:GN:501:GDP:O1B	2.19	0.43
45:GN:221:THR:HG22	45:GN:224:ASP:CG	2.39	0.43
44:HA:363:VAL:HG13	44:HA:363:VAL:O	2.19	0.43
45:HB:13:GLY:O	45:HB:16:ILE:N	2.52	0.43
44:HC:60:LYS:HZ3	44:IC:283:HIS:HE2	1.64	0.43
44:HC:88:HIS:NE2	44:IC:283:HIS:HB3	2.34	0.43
44:HC:151:SER:HB3	44:HC:193:SER:OG	2.19	0.43
44:HC:155:GLU:HG2	44:HC:197:HIS:CE1	2.54	0.43
44:HC:240:ALA:HB1	44:HC:356:ASN:ND2	2.34	0.43
45:HD:286:VAL:N	45:HD:287:PRO:CD	2.80	0.43
44:HG:21:TRP:HA	44:HG:21:TRP:CE3	2.53	0.43
44:HG:313:MET:SD	44:HG:380:ASN:HB3	2.58	0.43
45:HH:362:LYS:NZ	45:HH:363:MET:HE2	2.34	0.43
44:HI:62:VAL:O	44:HI:62:VAL:HG23	2.19	0.43
44:HK:226:ASN:HA	44:HK:229:ARG:CZ	2.46	0.43
44:HM:184:PRO:O	44:HM:187:SER:HB2	2.19	0.43
44:HM:296:PHE:CE2	44:HM:335:ILE:HG13	2.54	0.43
45:HN:112:LEU:HD23	45:HN:112:LEU:O	2.18	0.43
45:HN:225:LEU:HD13	48:HN:501:GDP:N2	2.34	0.43
44:IA:240:ALA:HB2	44:IA:320:ARG:NH1	2.34	0.43
44:IA:394:LYS:O	44:IA:398:MET:HE2	2.19	0.43
45:IB:150:LEU:HD21	45:IB:154:LYS:CE	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:268:ILE:CG2	45:IB:368:VAL:HG22	2.38	0.43
45:IB:313:ALA:CB	45:IB:349:ILE:HA	2.39	0.43
45:IB:415:MET:O	45:IB:419:VAL:HG23	2.18	0.43
45:ID:285:THR:OG1	45:ID:287:PRO:HD2	2.19	0.43
45:ID:314:SER:CB	45:ID:350:LYS:HB3	2.49	0.43
44:IE:204:LEU:CD1	44:IE:231:ILE:HD12	2.40	0.43
44:IE:221:ARG:HB3	45:IF:322:SER:HB3	2.01	0.43
45:IF:11:GLN:O	45:IF:15:GLN:N	2.46	0.43
45:IF:180:VAL:HG22	45:IF:183:TYR:HB2	2.01	0.43
45:IF:285:THR:CB	45:IF:287:PRO:HD2	2.49	0.43
45:IF:286:VAL:HG21	45:IF:325:GLU:HG2	2.01	0.43
44:IG:318:MET:HE1	44:IG:352:LYS:O	2.19	0.43
45:IH:1:MET:C	45:IH:2:ARG:HG2	2.38	0.43
45:IH:167:PHE:HE1	45:IH:200:MET:HB2	1.76	0.43
45:IH:290:THR:HA	45:IH:293:MET:CG	2.49	0.43
44:II:63:PRO:HD2	44:II:86:LEU:O	2.19	0.43
44:II:417:GLU:O	44:II:420:GLU:HG2	2.18	0.43
44:IK:69:ASP:HB3	44:IK:75:ILE:HG13	2.01	0.43
44:IK:222:PRO:HG2	45:IL:324:LYS:CD	2.49	0.43
44:IM:209:ILE:CG2	44:IM:227:LEU:HD22	2.49	0.43
45:IN:49:VAL:CG1	45:IN:240:LEU:HD22	2.43	0.43
45:IN:238:CYS:HB2	45:IN:318:ARG:NE	2.34	0.43
44:JA:195:LEU:HD12	44:JA:428:LEU:HD22	1.99	0.43
44:JC:117:LEU:HD23	44:JC:117:LEU:HA	1.93	0.43
45:JD:238:CYS:SG	45:JD:239:CYS:N	2.92	0.43
45:JF:259:PRO:O	45:JF:260:PHE:HD2	2.01	0.43
44:JG:19:ALA:HA	44:JG:22:GLU:CG	2.47	0.43
44:JG:281:ALA:O	44:JG:284:GLU:N	2.52	0.43
45:JJ:80:PRO:O	45:JJ:81:PHE:HB2	2.19	0.43
45:JJ:237:THR:O	45:JJ:241:ARG:NE	2.51	0.43
45:JJ:309:ARG:HA	45:JJ:340:TYR:O	2.18	0.43
45:JL:21:TRP:CZ3	45:JL:61:PRO:HB3	2.53	0.43
45:JL:100:ASN:HB3	45:JL:103:LYS:HB2	2.01	0.43
44:JM:397:LEU:CG	45:JN:344:TRP:HA	2.48	0.43
45:JN:6:HIS:CE1	45:JN:21:TRP:HE1	2.37	0.43
44:KA:66:VAL:HG22	44:KA:68:LEU:HD12	2.01	0.43
44:KA:183:GLU:CG	44:KA:184:PRO:HD3	2.49	0.43
44:KA:345:ASP:HB2	44:KA:438:GLU:HG2	2.01	0.43
45:KB:5:VAL:HG22	45:KB:133:PHE:CE1	2.53	0.43
45:KD:167:PHE:CE2	45:KD:200:MET:CE	3.02	0.43
45:KF:22:GLU:HA	45:KF:81:PHE:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:239:THR:O	44:KG:239:THR:CG2	2.67	0.43
45:KH:304:ASP:O	45:KH:373:ALA:HB1	2.19	0.43
44:KI:182:VAL:O	44:KI:182:VAL:HG22	2.19	0.43
45:KJ:167:PHE:CE2	45:KJ:233:MET:SD	3.11	0.43
45:KJ:294:PHE:CE2	45:KJ:333:VAL:HG21	2.53	0.43
44:KM:88:HIS:HB3	44:KM:91:GLN:HB2	2.00	0.43
44:KM:96:LYS:HZ2	44:KM:97:GLU:CD	2.22	0.43
45:KN:8:GLN:CG	45:KN:65:LEU:HD23	2.49	0.43
44:LA:75:ILE:HG21	44:LA:94:SER:HB3	2.01	0.43
44:LA:254:GLU:HA	44:LA:257:THR:HG22	2.00	0.43
44:LA:319:TYR:CD2	44:LA:323:VAL:HG11	2.48	0.43
44:LA:371:VAL:HG12	44:LA:372:MET:N	2.34	0.43
44:LA:390:ARG:HH11	44:LA:390:ARG:HG3	1.83	0.43
45:LB:217:LEU:HD11	45:LB:220:PRO:N	2.33	0.43
44:LC:417:GLU:HA	44:LC:420:GLU:CD	2.40	0.43
45:LD:282:ARG:HG3	45:LD:283:ALA:O	2.18	0.43
45:LD:320:ARG:NH1	45:LD:357:PRO:HD3	2.34	0.43
44:LE:246:GLY:HA2	44:LE:357:TYR:CE1	2.54	0.43
44:LE:318:MET:CE	44:LE:378:ILE:HD13	2.48	0.43
44:LE:407:TRP:HZ3	45:LF:254:ALA:O	2.01	0.43
45:LF:66:MET:SD	45:LF:147:MET:CE	3.07	0.43
44:LG:183:GLU:HG2	44:LG:184:PRO:N	2.34	0.43
44:LG:401:LYS:HE2	45:LH:344:TRP:CD1	2.54	0.43
45:LH:175:VAL:HG23	45:LH:175:VAL:O	2.19	0.43
45:LH:262:ARG:HH11	45:LH:262:ARG:CB	2.31	0.43
44:LI:267:PHE:HD1	44:LI:388:PHE:CZ	2.36	0.43
44:LI:355:ILE:O	44:LI:355:ILE:HG13	2.17	0.43
45:LJ:12:CYS:SG	45:LJ:169:VAL:HG21	2.59	0.43
45:LN:36:TYR:CE2	45:LN:38:GLY:HA3	2.54	0.43
44:MA:12:GLY:O	44:MA:16:VAL:HG12	2.19	0.43
44:MA:183:GLU:HG2	44:MA:184:PRO:N	2.32	0.43
44:MA:209:ILE:HG21	44:MA:227:LEU:HD13	1.99	0.43
45:MB:119:VAL:HG13	45:MB:120:VAL:N	2.34	0.43
45:MB:268:ILE:HG22	45:MB:368:VAL:HG22	2.01	0.43
44:MC:284:GLU:O	44:MC:286:LEU:HD23	2.19	0.43
45:MD:238:CYS:SG	45:MD:239:CYS:N	2.92	0.43
45:MD:316:LEU:CD2	45:MD:352:SER:HB2	2.49	0.43
44:MG:159:VAL:HG13	44:MG:160:ASP:N	2.34	0.43
44:MG:238:LEU:CG	44:MG:255:PHE:HE2	2.32	0.43
44:MG:319:TYR:HD2	44:MG:323:VAL:HG21	1.84	0.43
44:MI:91:GLN:O	44:MI:93:ILE:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:169:PHE:CE1	44:MI:202:VAL:HG21	2.54	0.43
44:MI:212:ILE:CD1	44:MI:300:ASN:HA	2.45	0.43
45:MJ:9:GLY:HA3	45:MJ:66:MET:CE	2.48	0.43
44:MK:12:GLY:O	44:MK:16:VAL:HG12	2.19	0.43
45:ML:68:LEU:CD2	45:ML:112:LEU:HD13	2.49	0.43
44:MM:52:PHE:HZ	44:MM:239:THR:CG2	2.32	0.43
44:MM:428:LEU:HD23	44:MM:428:LEU:C	2.39	0.43
44:NA:74:VAL:O	44:NA:77:GLU:N	2.52	0.43
44:NE:250:VAL:HG11	44:NE:352:LYS:HE3	2.01	0.43
45:NF:99:ASN:HA	45:NF:142:GLY:N	2.33	0.43
45:NF:343:GLU:HG2	45:NF:344:TRP:N	2.34	0.43
44:NG:178:SER:OG	44:NG:180:ALA:O	2.37	0.43
46:NG:501:GTP:O1A	45:NH:252:LYS:NZ	2.48	0.43
44:NK:138:PHE:CD1	44:NK:169:PHE:HB2	2.53	0.43
44:NK:344:VAL:HG22	44:NK:345:ASP:N	2.33	0.43
44:NK:362:VAL:CG2	44:NK:368:LEU:HB3	2.47	0.43
44:NM:19:ALA:CB	44:NM:232:ALA:HB2	2.48	0.43
44:NM:26:LEU:HD21	44:NM:363:VAL:HA	1.97	0.43
44:NM:264:ARG:NH2	44:NM:428:LEU:HB3	2.33	0.43
44:NM:330:ALA:HA	44:NM:333:ALA:CB	2.48	0.43
45:NN:66:MET:HE3	45:NN:147:MET:HB3	2.01	0.43
45:NN:184:ASN:OD1	45:NN:184:ASN:C	2.57	0.43
45:NN:269:GLY:CA	45:NN:367:PHE:HB3	2.47	0.43
44:OA:291:ILE:HG13	44:OA:292:THR:N	2.33	0.43
45:OB:8:GLN:HG2	45:OB:64:ILE:O	2.19	0.43
45:OB:276:ARG:HA	45:OB:279:GLN:HB2	2.01	0.43
44:OC:49:PHE:O	44:OC:53:PHE:N	2.52	0.43
44:OC:177:VAL:HG13	45:OD:327:ASP:HB3	2.00	0.43
44:OE:154:LEU:HD23	44:OE:157:LEU:HD12	2.01	0.43
44:OE:169:PHE:CD1	44:OE:202:VAL:HB	2.54	0.43
45:OF:173:PRO:HD3	45:OF:380:ARG:CD	2.49	0.43
44:OG:8:HIS:CD2	44:OG:138:PHE:HD2	2.36	0.43
44:OG:30:ILE:HD11	44:OG:61:HIS:ND1	2.34	0.43
45:OH:113:ILE:CD1	45:OH:151:LEU:HD22	2.48	0.43
45:OH:255:VAL:HG12	45:OH:255:VAL:O	2.19	0.43
45:OH:282:ARG:CG	45:OH:283:ALA:H	2.32	0.43
45:OH:300:MET:HG3	45:OH:300:MET:O	2.18	0.43
44:OI:324:VAL:HG22	45:OL:219:THR:HG21	2.00	0.43
44:OI:346:TRP:O	45:OL:388:MET:HE1	2.19	0.43
45:OJ:133:PHE:HB2	45:OJ:164:MET:CB	2.49	0.43
45:OJ:260:PHE:HB3	45:OJ:261:PRO:CD	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:417:ASP:O	45:OL:421:GLU:OE1	2.36	0.43
44:OM:137:VAL:HG22	44:OM:167:LEU:O	2.19	0.43
44:OM:217:LEU:HB3	44:OM:219:ILE:CD1	2.49	0.43
44:OM:270:SER:HA	44:OM:377:MET:O	2.19	0.43
44:PA:396:ASP:OD1	44:PA:397:LEU:HG	2.18	0.43
45:PB:31:ASP:OD2	45:PB:37:HIS:ND1	2.52	0.43
45:PB:175:VAL:HG23	45:PB:175:VAL:O	2.19	0.43
45:PB:268:ILE:CG2	45:PB:368:VAL:HG13	2.49	0.43
45:PB:287:PRO:CA	45:PB:290:THR:HG22	2.48	0.43
44:PC:24:PHE:HZ	44:PC:235:ILE:CG2	2.32	0.43
44:PC:191:THR:O	44:PC:194:LEU:HG	2.18	0.43
45:PD:205:GLU:HA	45:PD:208:TYR:CD2	2.48	0.43
45:PD:383:GLU:HA	45:PD:386:THR:HG22	2.01	0.43
45:PF:113:ILE:O	45:PF:116:VAL:HG12	2.18	0.43
44:PG:89:PRO:HG3	44:QG:280:LYS:HG3	2.00	0.43
44:PG:167:LEU:HD12	44:PG:167:LEU:C	2.39	0.43
44:PG:267:PHE:CE1	44:PG:388:PHE:HZ	2.37	0.43
45:PH:21:TRP:CH2	45:PH:61:PRO:HB3	2.53	0.43
45:PH:256:ASN:C	45:PH:257:LEU:HD12	2.38	0.43
44:PI:63:PRO:HG2	44:PI:86:LEU:CG	2.49	0.43
44:PI:71:GLU:HA	44:PI:72:PRO:HD3	1.92	0.43
44:PI:262:TYR:HD1	44:PI:263:PRO:HD2	1.84	0.43
45:PJ:330:MET:O	45:PJ:333:VAL:HB	2.19	0.43
44:PM:71:GLU:HG3	45:PN:247:ASN:CG	2.39	0.43
44:PM:265:ILE:CD1	44:PM:435:VAL:HG21	2.49	0.43
44:PM:268:MET:CE	44:PM:378:ILE:CG2	2.97	0.43
44:PM:358:GLN:HG3	44:PM:359:PRO:N	2.33	0.43
45:PN:240:LEU:O	45:PN:240:LEU:HD23	2.19	0.43
45:PN:293:MET:HE3	45:PN:365:VAL:HB	2.01	0.43
45:PN:319:GLY:C	45:PN:321:MET:HE1	2.39	0.43
44:QA:32:PRO:HG3	44:QA:83:TYR:HE1	1.84	0.43
44:QA:317:MET:HB2	44:QA:317:MET:HE2	1.79	0.43
45:QB:267:MET:CE	45:QB:371:SER:HB2	2.49	0.43
45:QB:289:LEU:HD22	45:QB:365:VAL:HG23	2.00	0.43
44:QC:217:LEU:HD21	44:QC:368:LEU:HD22	2.00	0.43
45:QD:36:TYR:CE2	45:QD:44:LEU:HG	2.54	0.43
45:QD:62:ARG:HG3	45:QD:62:ARG:O	2.19	0.43
45:QD:117:LEU:CA	45:QD:120:VAL:HG12	2.47	0.43
44:QE:175:PRO:O	44:QE:394:LYS:HE3	2.19	0.43
44:QE:259:LEU:HD23	44:QE:314:ALA:HB3	2.00	0.43
44:QE:346:TRP:HE3	44:QE:346:TRP:O	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QF:178:THR:HB	45:QF:181:GLU:HG3	2.00	0.43
45:QF:350:LYS:CD	44:QG:180:ALA:HA	2.47	0.43
45:QJ:116:VAL:CA	45:QJ:119:VAL:HG22	2.48	0.43
45:QJ:167:PHE:HA	45:QJ:200:MET:O	2.18	0.43
45:QJ:249:ASP:OD2	44:QK:98:ASP:HB3	2.19	0.43
45:QJ:415:MET:O	45:QJ:419:VAL:HG23	2.19	0.43
44:QK:80:THR:C	44:QK:84:ARG:HD2	2.39	0.43
44:QK:224:TYR:HD1	44:QK:227:LEU:HD12	1.84	0.43
45:QL:164:MET:O	45:QL:197:ASP:HB2	2.19	0.43
45:QL:304:ASP:HB3	45:QL:307:HIS:CD2	2.53	0.43
45:QL:316:LEU:HB2	45:QL:366:THR:CB	2.36	0.43
45:QL:333:VAL:HG13	45:QL:337:ASN:OD1	2.18	0.43
44:QM:1:MET:CE	45:QN:70:PRO:HG2	2.49	0.43
44:QM:296:PHE:CE2	44:QM:335:ILE:HG13	2.54	0.43
45:QN:105:HIS:O	45:QN:105:HIS:ND1	2.52	0.43
45:QN:390:ARG:HG3	45:QN:390:ARG:HH11	1.84	0.43
44:RA:209:ILE:CB	44:RA:227:LEU:HD22	2.48	0.43
44:RA:329:ASN:HA	44:RA:332:ILE:CD1	2.46	0.43
45:RB:54:ALA:HB3	45:RB:58:ARG:O	2.18	0.43
45:RB:83:GLN:OE1	45:RB:83:GLN:HA	2.19	0.43
45:RB:269:GLY:N	45:RB:367:PHE:HD2	2.16	0.43
45:RD:20:PHE:CA	45:RD:230:SER:HB3	2.48	0.43
45:RD:183:TYR:CD2	45:RD:398:TYR:HE2	2.36	0.43
44:RE:288:VAL:O	44:RE:291:ILE:HG12	2.19	0.43
44:RE:372:MET:O	44:RE:373:ARG:HG3	2.19	0.43
44:RE:390:ARG:HG3	44:RE:391:LEU:H	1.84	0.43
45:RF:134:GLN:HE22	45:RF:233:MET:CE	2.32	0.43
45:RF:193:VAL:O	45:RF:193:VAL:HG22	2.17	0.43
44:RG:76:ASP:OD1	44:RG:79:ARG:NH1	2.51	0.43
44:RG:346:TRP:NE1	45:RH:391:ARG:HG3	2.34	0.43
45:RH:92:PHE:C	45:RH:112:LEU:HD11	2.39	0.43
45:RH:241:ARG:O	45:RH:242:PHE:HD1	2.01	0.43
45:RH:251:ARG:HG2	44:RI:100:ALA:CB	2.49	0.43
44:RI:277:SER:O	44:RI:281:ALA:HB2	2.19	0.43
45:RJ:118:ASP:O	45:RJ:122:LYS:N	2.50	0.43
45:RJ:163:ILE:HD12	45:RJ:250:LEU:HB2	1.99	0.43
45:RJ:362:LYS:O	45:RJ:363:MET:HE1	2.19	0.43
44:RK:124:LYS:O	44:RK:127:ASP:HB2	2.18	0.43
45:RL:284:LEU:HB3	45:RL:363:MET:HG3	2.00	0.43
45:RL:318:ARG:HB3	45:RL:357:PRO:HA	2.01	0.43
44:RM:340:THR:HG23	44:RM:341:ILE:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:391:LEU:HA	44:RM:394:LYS:NZ	2.33	0.43
45:RN:147:MET:O	45:RN:151:LEU:HB2	2.19	0.43
45:RN:381:VAL:O	45:RN:384:GLN:HB2	2.19	0.43
44:SA:308:ARG:HD2	44:SA:308:ARG:O	2.19	0.43
45:SB:75:SER:O	45:SB:78:ALA:N	2.47	0.43
45:SB:286:VAL:HB	45:SB:287:PRO:HD3	2.00	0.43
44:SC:425:LEU:O	44:SC:429:GLU:HG3	2.19	0.43
45:SD:32:PRO:O	45:SD:84:LEU:HD11	2.18	0.43
45:SD:317:PHE:CB	45:SD:321:MET:HE1	2.33	0.43
45:SD:406:MET:O	45:SD:409:THR:HB	2.18	0.43
44:SE:220:GLU:O	44:SE:221:ARG:NH2	2.52	0.43
44:SE:252:ILE:HA	44:SE:255:PHE:CE2	2.54	0.43
44:SE:268:MET:HG3	44:SE:380:ASN:CA	2.49	0.43
44:SE:285:GLN:HG3	44:SE:287:SER:H	1.83	0.43
45:SF:49:VAL:HG21	45:SF:241:ARG:HG2	1.99	0.43
45:SF:180:VAL:O	45:SF:180:VAL:HG22	2.18	0.43
44:SG:206:ASN:CB	44:SG:209:ILE:HD12	2.49	0.43
44:SG:209:ILE:CG2	44:SG:227:LEU:HD22	2.37	0.43
44:SG:412:GLY:C	44:SG:413:MET:HE2	2.38	0.43
45:SH:11:GLN:HB2	45:SH:72:THR:HG21	2.01	0.43
45:SH:170:VAL:O	45:SH:170:VAL:HG13	2.18	0.43
44:SI:105:ARG:HA	44:SI:109:THR:HB	2.00	0.43
44:SI:156:ARG:HH11	44:SI:156:ARG:HG2	1.84	0.43
44:SI:195:LEU:HD12	44:SI:267:PHE:HE1	1.83	0.43
45:SJ:416:ASN:O	45:SJ:420:SER:N	2.43	0.43
44:SK:242:LEU:HD11	44:SK:252:ILE:CG1	2.38	0.43
44:SK:249:ASN:O	44:SK:250:VAL:HG23	2.18	0.43
44:SK:260:VAL:HG13	44:SK:265:ILE:O	2.19	0.43
44:SK:339:ARG:HG3	44:SK:339:ARG:O	2.18	0.43
45:SL:334:GLN:HE22	45:SL:347:ASN:H	1.67	0.43
44:SM:104:ALA:O	44:SM:108:TYR:N	2.42	0.43
44:SM:212:ILE:HD13	44:SM:215:ARG:HH22	1.84	0.43
44:SM:376:CYS:C	44:SM:377:MET:HE3	2.39	0.43
44:SM:428:LEU:HG	44:SM:432:TYR:HE2	1.84	0.43
45:SN:237:THR:OG1	45:SN:240:LEU:HD22	2.17	0.43
45:SN:412:GLU:HA	45:SN:415:MET:CG	2.49	0.43
44:TA:5:ILE:HA	44:TA:64:ARG:O	2.19	0.43
44:TA:14:ILE:CD1	44:TA:75:ILE:HD11	2.48	0.43
44:TA:248:LEU:HD23	44:TA:353:VAL:HG13	1.95	0.43
45:TB:254:ALA:O	44:TC:407:TRP:HH2	2.01	0.43
44:TC:27:GLU:CD	44:TC:243:ARG:HH22	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:35:THR:HA	45:TD:58:ARG:HA	2.01	0.43
45:TD:204:ASN:O	45:TD:207:LEU:HB2	2.18	0.43
45:TF:256:ASN:HD22	45:TF:350:LYS:HD2	1.84	0.43
45:TH:1:MET:HE2	44:TI:96:LYS:O	2.19	0.43
45:TH:401:GLU:HG2	45:TH:401:GLU:O	2.19	0.43
44:TI:101:ASN:C	44:TI:144:GLY:HA3	2.39	0.43
44:TI:212:ILE:CG2	44:TI:275:ILE:HD12	2.49	0.43
44:TI:328:VAL:O	44:TI:331:SER:N	2.46	0.43
44:TK:133:GLN:C	44:TK:165:SER:HG	2.21	0.43
45:TL:27:GLU:HG2	45:TL:241:ARG:HH22	1.84	0.43
44:TM:171:ILE:CD1	46:TM:501:GTP:HN22	2.31	0.43
44:TM:188:ILE:HG23	44:TM:425:LEU:HD11	2.01	0.43
45:TN:272:PRO:HD2	45:TN:364:ALA:CB	2.49	0.43
44:UA:217:LEU:HB3	44:UA:219:ILE:CG1	2.43	0.43
45:UB:83:GLN:HA	45:UB:83:GLN:OE1	2.19	0.43
45:UD:34:GLY:O	45:UD:58:ARG:HA	2.19	0.43
45:UD:247:ASN:H	44:UE:11:GLN:NE2	2.17	0.43
44:UE:1:MET:CE	45:UF:70:PRO:HG2	2.49	0.43
44:UE:334:THR:O	44:UE:334:THR:HG22	2.17	0.43
44:UE:349:THR:HG23	44:UE:349:THR:O	2.18	0.43
45:UF:193:VAL:HG23	45:UF:264:HIS:CE1	2.54	0.43
45:UF:291:GLN:NE2	45:UF:292:GLN:HB2	2.34	0.43
45:UF:296:ALA:HB1	45:UF:304:ASP:OD1	2.19	0.43
45:UF:311:LEU:CD2	45:UF:342:VAL:HG11	2.48	0.43
45:UF:329:GLN:O	45:UF:333:VAL:N	2.30	0.43
44:UG:104:ALA:CB	44:UG:411:GLU:HB2	2.49	0.43
45:UH:202:ILE:CD1	45:UH:268:ILE:HD11	2.36	0.43
45:UH:234:SER:HA	45:UH:237:THR:HG22	1.99	0.43
44:UI:56:THR:O	44:UI:56:THR:HG23	2.19	0.43
44:UI:298:PRO:O	44:UI:301:MET:CE	2.67	0.43
45:UJ:22:GLU:HG2	45:UJ:81:PHE:HB2	2.00	0.43
45:UJ:54:ALA:HB1	45:VJ:282:ARG:C	2.40	0.43
45:UJ:133:PHE:HB2	45:UJ:164:MET:HE1	1.99	0.43
44:UK:89:PRO:HG3	44:VI:280:LYS:CB	2.49	0.43
44:UK:313:MET:CE	44:UK:435:VAL:HG11	2.48	0.43
45:UL:242:PHE:CG	45:UL:356:ILE:HG13	2.54	0.43
44:UM:355:ILE:HG22	44:UM:356:ASN:N	2.34	0.43
45:UN:310:TYR:HD2	45:UN:340:TYR:O	2.01	0.43
44:VA:256:GLN:HG2	45:VD:397:TRP:CH2	2.51	0.43
44:VA:270:SER:HB3	44:VA:378:ILE:CD1	2.44	0.43
44:VA:404:PHE:CZ	45:VB:259:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:40:SER:O	45:VB:43:GLN:HB2	2.18	0.43
45:VB:164:MET:HB2	45:VB:197:ASP:H	1.82	0.43
45:VB:193:VAL:HA	45:VB:264:HIS:HE1	1.82	0.43
45:VB:222:TYR:HA	45:VB:225:LEU:CG	2.49	0.43
44:VC:88:HIS:CE1	44:VC:89:PRO:HD2	2.53	0.43
44:VC:101:ASN:HA	44:VC:144:GLY:H	1.83	0.43
44:VC:215:ARG:NH2	44:VC:299:ALA:O	2.50	0.43
44:VC:223:THR:OG1	45:VD:322:SER:HA	2.18	0.43
44:VC:259:LEU:HD11	44:VC:378:ILE:HG23	2.00	0.43
44:VC:311:LYS:HB2	44:VC:344:VAL:CG2	2.49	0.43
45:VD:101:TRP:O	45:VD:104:GLY:N	2.48	0.43
45:VD:376:GLU:CD	45:VD:379:LYS:HE3	2.39	0.43
45:VF:164:MET:CE	45:VF:164:MET:HA	2.48	0.43
44:VG:60:LYS:NZ	44:VG:85:GLN:O	2.51	0.43
44:VG:104:ALA:HB1	44:VG:411:GLU:HB2	2.01	0.43
45:VH:86:ARG:HE	45:VH:87:PRO:HD2	1.83	0.43
45:VH:135:ILE:HB	45:VH:166:THR:CG2	2.31	0.43
45:VH:165:GLU:OE2	45:VH:250:LEU:HD22	2.19	0.43
44:VI:147:SER:O	44:VI:151:SER:CB	2.66	0.43
44:VI:350:GLY:C	45:VL:179:VAL:HG12	2.38	0.43
45:VJ:212:PHE:HB3	45:VJ:213:ARG:HH12	1.83	0.43
44:VK:237:SER:HB3	44:VK:376:CYS:CB	2.49	0.43
44:VK:311:LYS:HE2	44:VK:311:LYS:HA	2.00	0.43
45:VL:319:GLY:N	45:VL:354:CYS:O	2.51	0.43
44:VM:317:MET:O	44:VM:354:GLY:N	2.49	0.43
44:VM:377:MET:O	44:VM:378:ILE:HD13	2.19	0.43
45:VN:268:ILE:HG22	45:VN:368:VAL:HG22	2.01	0.43
45:VN:315:ALA:HB3	45:VN:351:SER:OG	2.18	0.43
44:WA:13:GLY:O	44:WA:16:VAL:HG12	2.19	0.43
44:WA:88:HIS:CB	44:WA:91:GLN:HE21	2.32	0.43
45:WB:64:ILE:O	45:WB:65:LEU:HD12	2.18	0.43
45:WB:318:ARG:NH2	45:WB:356:ILE:O	2.49	0.43
44:WC:3:GLU:CB	44:WC:64:ARG:HH12	2.32	0.43
44:WC:113:GLU:O	44:WC:114:ILE:HD13	2.19	0.43
45:WD:41:ASP:CG	45:WD:42:LEU:HD12	2.39	0.43
45:WD:133:PHE:H	45:WD:164:MET:HE1	1.82	0.43
45:WD:390:ARG:HG3	45:WD:391:ARG:N	2.33	0.43
45:WD:414:ASN:O	45:WD:417:ASP:N	2.52	0.43
44:WE:12:GLY:O	44:WE:16:VAL:HG22	2.18	0.43
44:WE:287:SER:O	44:WE:291:ILE:HG12	2.18	0.43
44:WG:2:ARG:O	44:WG:2:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:10:GLY:HA2	46:WG:501:GTP:O1B	2.19	0.43
44:WG:394:LYS:HZ2	45:WH:346:PRO:HB2	1.84	0.43
45:WH:130:LEU:CG	45:WH:162:ARG:HD2	2.49	0.43
44:WI:254:GLU:HG2	45:WL:98:GLY:HA2	2.01	0.43
44:WI:257:THR:HA	45:WL:397:TRP:CZ3	2.53	0.43
44:WK:262:TYR:CE1	45:WN:393:ALA:HA	2.54	0.43
44:WK:324:VAL:HG12	44:WK:325:PRO:HD2	2.00	0.43
45:WL:227:HIS:HA	45:WL:230:SER:CB	2.47	0.43
45:WN:66:MET:CE	45:WN:151:LEU:HD13	2.49	0.43
45:WN:405:GLU:O	45:WN:408:PHE:N	2.52	0.43
45:WN:412:GLU:O	45:WN:415:MET:N	2.52	0.43
1:6H:217:GLN:CG	45:FD:320:ARG:NH2	2.82	0.42
8:0G:44:THR:CG2	45:JL:320:ARG:HG2	2.49	0.42
15:0V:74:VAL:CG1	45:MN:306:ARG:HD3	2.47	0.42
2:1A:71:TYR:CZ	44:AE:223:THR:HG21	2.53	0.42
8:1G:155:PRO:HB2	44:KA:29:GLY:HA2	1.99	0.42
22:1L:62:THR:HG21	44:BI:279:GLU:CG	2.49	0.42
24:1O:271:ALA:HB1	44:UA:278:ALA:CB	2.34	0.42
25:1P:277:LYS:HG3	44:TE:282:TYR:CD2	2.44	0.42
17:2B:238:TYR:HA	44:JK:84:ARG:NH2	2.26	0.42
32:2I:96:TRP:HE3	45:FF:125:GLU:OE2	2.01	0.42
21:2K:295:MET:HG3	45:GL:280:GLN:HE22	1.82	0.42
26:2R:70:THR:HG22	45:MH:320:ARG:HH11	1.83	0.42
26:3R:84:VAL:HG21	44:MK:33:ASP:OD2	2.19	0.42
37:5C:67:ALA:C	38:5G:69:LYS:HE3	2.39	0.42
37:5D:55:ALA:HA	45:KN:391:ARG:NH1	2.10	0.42
37:5D:55:ALA:HB2	44:KK:435:VAL:HG23	1.98	0.42
38:5E:214:LEU:HD21	44:LC:437:ILE:CG2	2.48	0.42
38:5F:54:LYS:HB2	45:OF:227:HIS:CD2	2.53	0.42
38:5F:127:PRO:CA	44:OE:372:MET:HE1	2.49	0.42
38:5G:208:PRO:HD3	44:LK:430:LYS:HD2	1.03	0.42
38:5H:90:SER:OG	45:KN:194:GLU:HA	2.18	0.42
39:5I:91:SER:HB2	44:JA:430:LYS:CG	2.49	0.42
39:5J:35:ILE:HD13	39:5J:35:ILE:HA	1.92	0.42
39:5J:156:ASN:OD1	39:5J:159:ARG:NH1	2.51	0.42
35:5R:13:PRO:HA	45:LJ:227:HIS:HD2	1.84	0.42
35:5R:357:LYS:HE3	35:5R:357:LYS:HB3	1.86	0.42
35:5R:600:LEU:HD23	35:5R:601:ASP:C	2.39	0.42
36:5S:112:THR:HA	36:5S:117:LYS:CG	2.48	0.42
40:6F:136:ARG:CD	45:IH:42:LEU:HD21	2.40	0.42
41:6G:230:TYR:CE1	44:UE:119:LEU:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6Q:90:GLU:HG2	11:6Q:104:ARG:NH1	2.33	0.42
35:7R:58:ARG:O	35:7R:59:MET:HB2	2.18	0.42
35:7R:94:ARG:HD3	35:7R:184:ASP:CB	2.48	0.42
35:7R:118:LEU:HG	35:7R:127:ILE:HD11	2.00	0.42
44:AA:71:GLU:HA	44:AA:72:PRO:HD3	1.92	0.42
45:AB:49:VAL:HG11	45:AB:240:LEU:HD21	2.00	0.42
45:AB:68:LEU:HD23	45:AB:97:ALA:N	2.34	0.42
44:AC:79:ARG:O	44:AC:84:ARG:HG3	2.19	0.42
44:AC:202:VAL:HA	44:AC:268:MET:O	2.19	0.42
44:AC:398:MET:HE3	45:AD:346:PRO:HD2	2.00	0.42
45:AD:155:VAL:HG23	45:AD:156:ARG:N	2.34	0.42
45:AD:318:ARG:CZ	45:AD:356:ILE:O	2.66	0.42
44:AE:91:GLN:C	44:AE:93:ILE:HD12	2.39	0.42
44:AE:169:PHE:CD1	44:AE:202:VAL:HG22	2.54	0.42
45:AF:4:ILE:HG22	45:AF:5:VAL:N	2.34	0.42
45:AF:7:ILE:CG2	45:AF:135:ILE:CD1	2.97	0.42
45:AF:392:LYS:HD3	45:AF:395:LEU:HD23	2.00	0.42
44:AG:3:GLU:HG3	44:AG:129:CYS:HB3	2.00	0.42
44:AI:62:VAL:O	44:AI:62:VAL:HG13	2.18	0.42
44:AI:430:LYS:O	44:AI:434:GLU:HB2	2.19	0.42
44:AK:102:ASN:O	44:AK:105:ARG:N	2.52	0.42
45:AL:134:GLN:HA	45:AL:165:GLU:O	2.19	0.42
45:AL:189:VAL:HG11	45:AL:415:MET:CE	2.45	0.42
44:AM:265:ILE:CD1	44:AM:435:VAL:HG21	2.49	0.42
44:AM:317:MET:HE1	44:AM:377:MET:CB	2.43	0.42
45:AN:10:GLY:O	45:AN:14:ASN:HB2	2.19	0.42
45:AN:101:TRP:HE3	45:AN:187:LEU:HD13	1.79	0.42
44:BA:20:CYS:O	44:BA:24:PHE:HD2	2.02	0.42
44:BA:141:VAL:HG11	44:BA:187:SER:HA	2.00	0.42
44:BA:261:PRO:HA	45:BD:394:PHE:CG	2.53	0.42
44:BA:377:MET:HB2	44:BA:377:MET:HE2	1.66	0.42
44:BC:102:ASN:O	44:BC:105:ARG:HB2	2.19	0.42
44:BC:113:GLU:O	44:BC:114:ILE:HD13	2.19	0.42
44:BC:165:SER:HA	44:BC:199:ASP:OD2	2.18	0.42
44:BC:221:ARG:N	44:BC:222:PRO:HD3	2.34	0.42
44:BC:257:THR:HG22	45:BF:397:TRP:CZ2	2.54	0.42
44:BC:368:LEU:HD12	44:BC:368:LEU:N	2.34	0.42
44:BG:174:SER:HB3	44:BG:207:GLU:HB2	2.01	0.42
45:BH:212:PHE:CE1	45:BH:220:PRO:HD3	2.54	0.42
44:BI:221:ARG:HD2	45:BJ:322:SER:CB	2.46	0.42
45:BJ:93:GLY:N	45:BJ:112:LEU:HD11	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BJ:95:THR:HG21	45:BJ:108:GLU:OE1	2.19	0.42
45:BJ:309:ARG:HH11	45:BJ:342:VAL:HA	1.83	0.42
45:BJ:378:PHE:O	45:BJ:382:ALA:N	2.43	0.42
44:BK:171:ILE:HG12	44:BK:204:LEU:CB	2.49	0.42
45:BL:124:ALA:CB	45:BL:159:TYR:HE2	2.32	0.42
44:BM:20:CYS:HA	44:BM:232:ALA:CB	2.49	0.42
44:BM:55:GLU:HG3	44:BM:57:GLY:N	2.32	0.42
44:BM:132:LEU:HD22	44:BM:164:LYS:HD2	1.99	0.42
44:BM:388:PHE:CE2	44:BM:428:LEU:HD23	2.54	0.42
44:CA:425:LEU:HD23	44:CA:425:LEU:HA	1.87	0.42
45:CB:97:ALA:HB3	45:CB:143:THR:CA	2.44	0.42
45:CB:324:LYS:HE3	44:CC:210:TYR:CG	2.54	0.42
44:CC:11:GLN:O	44:CC:14:ILE:N	2.52	0.42
44:CC:174:SER:OG	44:CC:175:PRO:HD2	2.19	0.42
44:CC:396:ASP:OD1	44:CC:422:ARG:NH2	2.52	0.42
45:CD:6:HIS:CE1	45:CD:21:TRP:HE1	2.37	0.42
44:CE:259:LEU:HD11	44:CE:268:MET:HE2	2.00	0.42
44:CE:287:SER:O	44:CE:291:ILE:HG12	2.18	0.42
45:CF:342:VAL:HG21	45:CF:344:TRP:NE1	2.34	0.42
45:CH:317:PHE:CZ	45:CH:326:VAL:HG23	2.54	0.42
45:CL:139:LEU:HD13	45:CL:168:SER:HB3	2.01	0.42
45:CL:163:ILE:HG21	45:CL:251:ARG:CD	2.47	0.42
45:CL:323:THR:HG21	44:CM:224:TYR:CE1	2.53	0.42
45:CL:325:GLU:HG2	45:CL:329:GLN:NE2	2.32	0.42
45:CL:385:PHE:CE2	45:CL:412:GLU:HB2	2.52	0.42
44:CM:147:SER:O	44:CM:151:SER:N	2.33	0.42
44:CM:292:THR:O	44:CM:295:ALA:HB3	2.19	0.42
44:CM:310:GLY:HA3	44:CM:383:ALA:N	2.34	0.42
44:CM:344:VAL:HG12	44:CM:347:CYS:HB2	2.01	0.42
45:CN:151:LEU:O	45:CN:151:LEU:HD23	2.18	0.42
44:DA:7:ILE:HA	44:DA:66:VAL:CG1	2.49	0.42
44:DA:269:LEU:HD13	44:DA:305:CYS:HB3	2.01	0.42
44:DA:344:VAL:HG11	44:DA:346:TRP:NE1	2.34	0.42
46:DA:501:GTP:O2A	46:DA:501:GTP:H8	2.02	0.42
45:DB:268:ILE:HB	45:DB:367:PHE:O	2.19	0.42
45:DB:347:ASN:HB3	44:DC:178:SER:OG	2.18	0.42
44:DC:289:ALA:HA	44:DC:331:SER:OG	2.19	0.42
44:DE:110:ILE:HG13	44:DE:111:GLY:N	2.34	0.42
44:DE:370:LYS:O	44:DE:370:LYS:HG3	2.19	0.42
44:DG:206:ASN:OD1	46:DG:501:GTP:H2'	2.19	0.42
45:DH:322:SER:HB3	45:DH:323:THR:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:75:ILE:HG22	44:DI:79:ARG:CZ	2.48	0.42
44:DI:319:TYR:CE2	44:DI:328:VAL:HG22	2.54	0.42
45:DJ:67:ASP:OD1	45:DJ:69:GLU:N	2.47	0.42
44:DK:12:GLY:O	44:DK:16:VAL:HG12	2.19	0.42
44:DK:174:SER:HB2	44:DK:177:VAL:O	2.19	0.42
44:DK:192:HIS:CA	44:DK:195:LEU:HD23	2.21	0.42
45:DL:271:ALA:HB1	45:DL:272:PRO:HA	2.01	0.42
44:DM:53:PHE:O	44:DM:64:ARG:NH2	2.51	0.42
44:DM:204:LEU:HD23	44:DM:302:MET:CE	2.49	0.42
44:DM:292:THR:HG23	44:DM:293:ASN:N	2.34	0.42
44:DM:428:LEU:HG	44:DM:432:TYR:CE2	2.53	0.42
45:DN:149:THR:HG23	45:DN:150:LEU:N	2.34	0.42
45:DN:290:THR:HG23	45:DN:291:GLN:N	2.34	0.42
44:EA:3:GLU:HG2	44:EA:129:CYS:SG	2.59	0.42
44:EA:8:HIS:NE2	44:EA:17:GLY:HA3	2.34	0.42
44:EA:18:ASN:O	44:EA:21:TRP:HB2	2.18	0.42
44:EA:88:HIS:HE1	44:EA:90:GLU:HG2	1.81	0.42
44:EA:105:ARG:O	44:EA:110:ILE:HG12	2.18	0.42
44:EA:198:THR:HG22	44:EA:199:ASP:N	2.33	0.42
45:EB:318:ARG:NH2	45:EB:356:ILE:O	2.52	0.42
44:EC:238:LEU:O	44:EC:238:LEU:HD23	2.19	0.42
45:ED:2:ARG:HA	45:ED:131:GLN:HB2	2.00	0.42
45:ED:60:VAL:HG21	45:ED:86:ARG:CZ	2.49	0.42
45:EF:127:CYS:SG	45:EF:130:LEU:HD13	2.58	0.42
45:EF:374:ILE:HD11	45:EF:422:TYR:CD1	2.54	0.42
44:EG:63:PRO:HG3	44:EG:86:LEU:HD11	2.00	0.42
45:EH:66:MET:HE3	45:EH:147:MET:HE3	2.01	0.42
44:EI:169:PHE:HB3	44:EI:204:LEU:CD1	2.49	0.42
44:EI:230:LEU:HD12	44:EI:275:ILE:HD13	2.01	0.42
45:EJ:172:SER:HB2	45:EJ:173:PRO:CD	2.49	0.42
45:EJ:291:GLN:NE2	45:EJ:292:GLN:HB2	2.34	0.42
45:EL:163:ILE:O	45:EL:164:MET:HE2	2.19	0.42
44:EM:166:LYS:O	44:EM:199:ASP:HB2	2.19	0.42
44:EM:212:ILE:CD1	44:EM:215:ARG:HH22	2.31	0.42
44:FA:31:GLN:NE2	44:FA:37:PRO:HG3	2.34	0.42
45:FB:52:ASN:CG	45:FB:62:ARG:HE	2.22	0.42
45:FB:206:ALA:CB	45:FB:301:CYS:HA	2.48	0.42
44:FC:183:GLU:CG	44:FC:184:PRO:HD3	2.48	0.42
44:FC:223:THR:CG2	44:FC:225:THR:HG23	2.49	0.42
45:FD:119:VAL:HG13	45:FD:120:VAL:N	2.33	0.42
45:FD:164:MET:HB2	45:FD:197:ASP:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:377:MET:O	44:FE:378:ILE:HD13	2.19	0.42
45:FF:60:VAL:CG1	45:FF:86:ARG:HH21	2.31	0.42
44:FG:49:PHE:HB2	44:FG:53:PHE:CB	2.41	0.42
44:FG:89:PRO:HG3	44:GG:280:LYS:CE	2.47	0.42
44:FG:121:ARG:HD3	44:FG:121:ARG:O	2.19	0.42
44:FG:250:VAL:CG1	44:FG:352:LYS:HE3	2.48	0.42
44:FG:265:ILE:CG2	44:FG:432:TYR:HE1	2.31	0.42
45:FH:20:PHE:CE2	45:FH:24:ILE:HG13	2.53	0.42
45:FH:30:ILE:HG13	45:FH:51:TYR:CZ	2.54	0.42
45:FH:86:ARG:HA	45:GH:281:TYR:CD2	2.54	0.42
44:FI:332:ILE:HG22	44:FI:336:LYS:HZ2	1.84	0.42
45:FJ:3:GLU:HG3	45:FJ:62:ARG:NH1	2.33	0.42
45:FJ:49:VAL:HG13	45:FJ:50:TYR:CD2	2.54	0.42
45:FJ:116:VAL:O	45:FJ:119:VAL:HG12	2.19	0.42
44:FK:88:HIS:O	44:FK:91:GLN:HG2	2.19	0.42
44:FK:175:PRO:HB3	44:FK:304:LYS:HD2	2.01	0.42
44:FK:248:LEU:CD2	48:FN:501:GDP:H3'	2.49	0.42
45:FL:68:LEU:HB3	45:FL:143:THR:HG21	2.00	0.42
45:FL:135:ILE:HG13	45:FL:152:ILE:HD12	2.01	0.42
45:FL:208:TYR:OH	45:FL:225:LEU:HD11	2.19	0.42
44:FM:143:GLY:HA3	46:FM:501:GTP:O2B	2.18	0.42
45:FN:6:HIS:HD1	45:FN:134:GLN:NE2	2.17	0.42
45:FN:322:SER:C	45:FN:323:THR:HG23	2.39	0.42
45:GB:183:TYR:OH	45:GB:388:MET:HB3	2.18	0.42
45:GB:238:CYS:SG	45:GB:239:CYS:N	2.92	0.42
44:GC:156:ARG:O	44:GC:159:VAL:HG12	2.19	0.42
44:GC:288:VAL:HG11	44:GC:327:ASP:OD1	2.18	0.42
44:GE:142:GLY:HA2	44:GE:186:ASN:OD1	2.19	0.42
44:GE:276:ILE:HG13	44:GE:280:LYS:HE3	2.00	0.42
44:GG:90:GLU:O	44:GG:93:ILE:HD11	2.19	0.42
44:GG:394:LYS:HA	44:GG:394:LYS:HE2	2.01	0.42
45:GH:143:THR:N	48:GH:502:GDP:O2B	2.52	0.42
44:GI:28:HIS:HE1	44:GI:244:PHE:CE1	2.37	0.42
45:GJ:286:VAL:N	45:GJ:287:PRO:CD	2.82	0.42
44:GK:105:ARG:HB3	44:GK:110:ILE:HG12	2.00	0.42
44:GM:139:ASN:OD1	44:GM:170:THR:HG22	2.19	0.42
44:GM:149:LEU:O	44:GM:152:LEU:HB3	2.19	0.42
44:GM:186:ASN:O	44:GM:190:SER:OG	2.37	0.42
44:GM:194:LEU:HD11	44:GM:267:PHE:HZ	1.83	0.42
45:GN:240:LEU:O	45:GN:240:LEU:HD23	2.19	0.42
45:GN:248:SER:OG	45:GN:253:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:99:ALA:CB	44:HA:105:ARG:HB2	2.49	0.42
44:HA:195:LEU:HD12	44:HA:266:HIS:CE1	2.53	0.42
44:HA:229:ARG:HG2	44:HA:229:ARG:HH11	1.84	0.42
44:HA:302:MET:SD	44:HA:302:MET:N	2.91	0.42
45:HB:131:GLN:HE21	45:HB:250:LEU:CB	2.31	0.42
45:HB:305:PRO:HA	45:HB:373:ALA:CB	2.49	0.42
45:HD:242:PHE:HB3	45:HD:243:PRO:HD2	2.01	0.42
45:HD:382:ALA:O	45:HD:385:PHE:HB3	2.19	0.42
44:HE:16:VAL:HG13	44:HE:17:GLY:N	2.34	0.42
45:HF:180:VAL:HG13	45:HF:184:ASN:ND2	2.33	0.42
44:HG:208:ALA:HB1	44:HG:301:MET:O	2.19	0.42
44:HI:209:ILE:HD11	44:HI:302:MET:SD	2.59	0.42
44:HI:270:SER:C	44:HI:271:SER:HG	2.13	0.42
45:HJ:66:MET:HE2	45:HJ:147:MET:HG2	2.01	0.42
44:HK:348:PRO:HG3	45:HN:387:ALA:CB	2.49	0.42
45:HL:133:PHE:O	45:HL:165:GLU:HG2	2.18	0.42
45:HL:331:LEU:HD23	45:HL:331:LEU:C	2.39	0.42
44:HM:246:GLY:HA2	44:HM:357:TYR:CE2	2.54	0.42
44:HM:256:GLN:HE21	44:HM:257:THR:HG23	1.84	0.42
44:HM:345:ASP:OD2	44:HM:439:THR:HG22	2.19	0.42
45:HN:249:ASP:O	45:HN:253:LEU:HD13	2.19	0.42
44:IA:68:LEU:HD21	44:IA:118:CYS:HB2	1.99	0.42
44:IA:230:LEU:O	44:IA:233:GLN:HB3	2.19	0.42
45:IB:4:ILE:HG23	45:IB:131:GLN:CB	2.43	0.42
45:IB:105:HIS:HD2	45:IB:146:GLY:O	2.02	0.42
44:IC:313:MET:HE3	44:IC:382:THR:HG22	2.01	0.42
45:ID:203:ASP:HB2	45:ID:301:CYS:HA	2.00	0.42
45:ID:229:VAL:HA	45:ID:232:ALA:HB3	2.01	0.42
45:ID:299:MET:HE3	45:ID:305:PRO:HG3	2.01	0.42
45:ID:323:THR:O	45:ID:326:VAL:N	2.50	0.42
44:IE:15:GLN:O	44:IE:18:ASN:HB2	2.19	0.42
44:IE:172:TYR:HD2	44:IE:203:MET:SD	2.42	0.42
44:IE:174:SER:OG	44:IE:206:ASN:OD1	2.36	0.42
45:IF:27:GLU:CD	45:IF:241:ARG:HH21	2.23	0.42
45:IF:86:ARG:CZ	45:IF:87:PRO:HD2	2.49	0.42
44:IG:98:ASP:OD2	44:IG:99:ALA:N	2.51	0.42
44:II:420:GLU:HA	44:II:423:GLU:OE1	2.18	0.42
44:IK:217:LEU:O	44:IK:218:ASP:HB2	2.19	0.42
44:IM:269:LEU:CD1	44:IM:303:ALA:HB3	2.47	0.42
44:IM:362:VAL:HG22	44:IM:363:VAL:N	2.34	0.42
45:IN:19:LYS:HG2	45:IN:227:HIS:CA	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IN:132:GLY:HA2	45:IN:162:ARG:HB3	2.01	0.42
45:JB:3:GLU:CG	45:JB:127:CYS:HB2	2.49	0.42
45:JB:26:ASP:C	45:JB:29:GLY:H	2.22	0.42
45:JB:178:THR:HG22	45:JB:180:VAL:H	1.84	0.42
44:JC:72:PRO:HB2	45:JD:46:ARG:NH2	2.34	0.42
44:JG:205:ASP:OD2	44:JG:304:LYS:N	2.37	0.42
44:JG:205:ASP:OD2	44:JG:303:ALA:HA	2.18	0.42
45:JH:7:ILE:HD12	45:JH:135:ILE:HD11	2.01	0.42
45:JH:263:LEU:HD23	45:JH:263:LEU:HA	1.93	0.42
45:JH:317:PHE:HB3	45:JH:321:MET:HE2	2.00	0.42
44:JI:73:THR:O	44:JI:77:GLU:HB2	2.18	0.42
44:JI:99:ALA:HB2	44:JI:145:THR:HB	2.00	0.42
45:JJ:58:ARG:O	45:JJ:58:ARG:HG3	2.19	0.42
45:JJ:319:GLY:HA2	45:JJ:357:PRO:HD3	2.00	0.42
44:JK:30:ILE:O	44:JK:30:ILE:HG22	2.18	0.42
45:JL:121:ARG:NH1	45:JL:158:GLU:OE2	2.51	0.42
45:JN:19:LYS:HE3	45:JN:227:HIS:HB2	2.01	0.42
45:JN:105:HIS:NE2	45:JN:150:LEU:HD13	2.34	0.42
45:JN:143:THR:O	45:JN:147:MET:HB3	2.19	0.42
44:KA:10:GLY:O	44:KA:14:ILE:HG13	2.19	0.42
45:KB:202:ILE:HG23	45:KB:300:MET:HE3	2.00	0.42
44:KC:280:LYS:O	44:KC:280:LYS:CG	2.67	0.42
44:KE:414:GLU:HG3	44:KE:416:GLY:H	1.83	0.42
45:KF:101:TRP:HD1	45:KF:145:SER:HB2	1.84	0.42
45:KF:174:LYS:CG	45:KF:205:GLU:HG3	2.48	0.42
45:KF:242:PHE:CE1	45:KF:356:ILE:HG21	2.53	0.42
45:KF:286:VAL:HB	45:KF:325:GLU:HG3	2.01	0.42
45:KF:398:TYR:CD2	45:KF:408:PHE:HZ	2.37	0.42
44:KG:5:ILE:HD11	44:KG:126:ALA:HA	2.00	0.42
44:KG:224:TYR:CD1	44:KG:227:LEU:HD12	2.54	0.42
44:KI:66:VAL:HG21	44:KI:122:ILE:HD11	2.02	0.42
44:KK:132:LEU:H	44:KK:132:LEU:CD1	2.32	0.42
44:KK:276:ILE:HG12	44:KK:281:ALA:HA	2.01	0.42
45:KL:199:CYS:HB2	45:KL:265:PHE:CD1	2.54	0.42
45:KN:173:PRO:CD	45:KN:381:VAL:HG22	2.48	0.42
45:KN:262:ARG:HG3	45:KN:263:LEU:CD1	2.46	0.42
44:LA:41:THR:HG22	44:LA:42:ILE:N	2.34	0.42
44:LA:64:ARG:NE	44:LA:129:CYS:SG	2.86	0.42
44:LA:71:GLU:OE1	44:LA:73:THR:HB	2.19	0.42
44:LA:416:GLY:O	44:LA:419:SER:OG	2.11	0.42
45:LB:10:GLY:N	45:LB:14:ASN:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:385:PHE:HE2	45:LB:412:GLU:HB2	1.84	0.42
44:LC:209:ILE:HG21	44:LC:227:LEU:HD23	2.00	0.42
44:LC:320:ARG:CG	44:LC:374:ALA:HB3	2.49	0.42
45:LD:187:LEU:HD21	45:LD:408:PHE:CE1	2.54	0.42
45:LD:227:HIS:O	45:LD:230:SER:OG	2.29	0.42
45:LD:258:ILE:HD11	45:LD:266:PHE:CZ	2.53	0.42
45:LD:265:PHE:HE2	45:LD:378:PHE:CZ	2.37	0.42
44:LE:117:LEU:O	44:LE:120:ASP:N	2.52	0.42
45:LF:4:ILE:HG13	45:LF:4:ILE:O	2.18	0.42
45:LF:258:ILE:HG23	45:LF:263:LEU:O	2.19	0.42
45:LH:58:ARG:NH2	45:MH:281:TYR:HE1	2.17	0.42
45:LH:130:LEU:O	45:LH:162:ARG:NE	2.52	0.42
44:LI:258:ASN:HA	45:LL:179:VAL:HG21	2.00	0.42
45:LJ:266:PHE:CD1	45:LJ:370:ASN:HB2	2.54	0.42
44:LK:119:LEU:HD11	44:LK:156:ARG:HB3	2.00	0.42
44:LK:419:SER:O	44:LK:423:GLU:HG2	2.19	0.42
44:LM:181:VAL:HG21	45:LN:256:ASN:O	2.18	0.42
45:LN:101:TRP:HB3	45:LN:398:TYR:CE2	2.54	0.42
44:MA:353:VAL:O	44:MA:353:VAL:HG23	2.19	0.42
45:MB:3:GLU:H	45:MB:3:GLU:CD	2.17	0.42
45:MB:289:LEU:HD11	45:MB:363:MET:HB3	2.01	0.42
44:MC:141:VAL:HG11	44:MC:172:TYR:HD1	1.82	0.42
44:MC:209:ILE:HB	44:MC:227:LEU:HD11	2.00	0.42
44:MC:258:ASN:HA	45:MF:179:VAL:HG11	1.99	0.42
44:MC:312:TYR:CE2	44:MC:341:ILE:HG23	2.54	0.42
44:MC:324:VAL:HG11	45:MF:220:PRO:O	2.19	0.42
45:MD:238:CYS:HB3	45:MD:318:ARG:NH2	2.34	0.42
44:ME:393:HIS:CG	44:ME:425:LEU:HD11	2.53	0.42
44:ME:425:LEU:HD12	44:ME:425:LEU:N	2.33	0.42
44:MG:145:THR:HG23	44:MG:146:GLY:N	2.34	0.42
45:MH:1:MET:C	45:MH:2:ARG:HG2	2.39	0.42
45:MH:12:CYS:CB	45:MH:138:SER:HB2	2.49	0.42
45:MH:167:PHE:CE2	45:MH:200:MET:HG3	2.54	0.42
45:MH:419:VAL:HG13	45:MH:420:SER:N	2.34	0.42
44:MI:16:VAL:HA	44:MI:228:ASN:ND2	2.33	0.42
44:MI:100:ALA:O	45:MJ:255:VAL:HG21	2.19	0.42
44:MI:171:ILE:HD13	44:MI:204:LEU:HB3	1.98	0.42
44:MI:313:MET:HA	44:MI:313:MET:CE	2.48	0.42
45:MJ:186:THR:OG1	45:MJ:381:VAL:HG12	2.18	0.42
44:MK:311:LYS:HD2	44:MK:342:GLN:CG	2.49	0.42
45:ML:72:THR:HG23	45:ML:73:MET:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ML:178:THR:HG22	45:ML:180:VAL:HG12	2.00	0.42
45:ML:257:LEU:HA	45:ML:312:THR:HG21	2.00	0.42
44:MM:104:ALA:HB1	44:MM:411:GLU:HB2	2.00	0.42
45:MN:213:ARG:HH21	45:MN:297:LYS:HD3	1.84	0.42
44:NA:4:VAL:HG11	44:NA:52:PHE:CE1	2.54	0.42
44:NA:72:PRO:HG2	45:NB:1:MET:CE	2.49	0.42
44:NA:324:VAL:CG1	44:NA:325:PRO:HD2	2.47	0.42
45:NB:104:GLY:HA3	45:NB:143:THR:HA	2.00	0.42
45:NB:240:LEU:HG	45:NB:240:LEU:O	2.19	0.42
45:NB:396:HIS:HA	45:NB:399:THR:HG1	1.82	0.42
44:NC:169:PHE:CE2	44:NC:235:ILE:HD13	2.54	0.42
44:NC:395:PHE:HE2	44:NC:422:ARG:HB2	1.84	0.42
45:ND:58:ARG:HH21	45:ND:60:VAL:HG12	1.83	0.42
45:ND:86:ARG:NH2	45:ND:87:PRO:HD2	2.34	0.42
45:NF:218:THR:HG23	45:NF:219:THR:N	2.34	0.42
45:NF:248:SER:CA	45:NF:252:LYS:HD2	2.49	0.42
45:NF:251:ARG:HG2	45:NF:251:ARG:HH11	1.83	0.42
45:NF:267:MET:HE1	45:NF:371:SER:HB3	1.99	0.42
44:NG:30:ILE:HD11	44:NG:34:GLY:O	2.18	0.42
44:NI:13:GLY:HA2	44:NI:16:VAL:CG1	2.49	0.42
44:NI:243:ARG:O	44:NI:244:PHE:CD1	2.72	0.42
45:NJ:61:PRO:HD2	45:NJ:84:LEU:HB3	2.00	0.42
45:NJ:152:ILE:O	45:NJ:155:VAL:HG12	2.18	0.42
44:NK:176:GLN:O	45:NL:347:ASN:ND2	2.52	0.42
44:NK:221:ARG:NH1	45:NL:322:SER:HB3	2.34	0.42
44:NK:260:VAL:CG2	45:NN:397:TRP:HZ2	2.31	0.42
44:NK:264:ARG:NH2	44:NK:431:ASP:OD2	2.52	0.42
45:NL:343:GLU:HG2	45:NL:344:TRP:N	2.34	0.42
44:NM:107:HIS:CE1	44:NM:152:LEU:HB2	2.54	0.42
45:NN:3:GLU:OE2	45:NN:128:ASP:N	2.52	0.42
45:NN:167:PHE:HE1	45:NN:200:MET:SD	2.42	0.42
45:OB:4:ILE:CD1	45:OB:134:GLN:HE21	2.23	0.42
44:OC:126:ALA:O	44:OC:129:CYS:HB2	2.19	0.42
44:OC:220:GLU:O	44:OC:221:ARG:HD2	2.19	0.42
44:OC:387:VAL:CA	44:OC:390:ARG:HG2	2.45	0.42
45:OD:11:GLN:NE2	48:OD:502:GDP:O3B	2.52	0.42
45:OD:175:VAL:HG22	45:OD:205:GLU:HB2	2.00	0.42
45:OF:22:GLU:HG2	45:OF:23:VAL:N	2.34	0.42
45:OF:186:THR:HG23	45:OF:187:LEU:N	2.34	0.42
44:OG:229:ARG:CZ	44:OG:363:VAL:HG21	2.49	0.42
44:OG:269:LEU:HD12	44:OG:303:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OG:304:LYS:N	44:OG:304:LYS:CD	2.82	0.42
45:OH:147:MET:SD	45:OH:151:LEU:HD23	2.59	0.42
45:OH:379:LYS:HB2	45:OH:379:LYS:HE2	1.88	0.42
44:OI:237:SER:HA	44:OI:320:ARG:HD2	2.01	0.42
44:OI:329:ASN:HB3	45:OL:175:VAL:HG11	2.01	0.42
45:OJ:166:THR:O	45:OJ:199:CYS:HA	2.18	0.42
45:OJ:298:ASN:HD22	45:OJ:298:ASN:C	2.21	0.42
44:OK:115:VAL:HA	44:OK:118:CYS:HB3	2.01	0.42
44:OK:243:ARG:HG3	44:OK:244:PHE:CD2	2.54	0.42
45:OL:26:ASP:OD1	45:OL:27:GLU:N	2.52	0.42
45:OL:87:PRO:HD2	45:PL:281:TYR:HD1	1.84	0.42
44:OM:52:PHE:O	44:OM:64:ARG:HG3	2.19	0.42
45:ON:134:GLN:O	45:ON:134:GLN:HG3	2.19	0.42
45:ON:197:ASP:O	45:ON:264:HIS:HB2	2.18	0.42
45:ON:284:LEU:HD21	45:ON:363:MET:HB2	2.00	0.42
44:PA:68:LEU:HG	44:PA:93:ILE:HB	2.01	0.42
44:PA:208:ALA:HB3	44:PA:302:MET:O	2.19	0.42
44:PA:213:CYS:HB3	44:PA:217:LEU:HD12	2.01	0.42
45:PB:113:ILE:HD13	45:PB:150:LEU:CD2	2.49	0.42
45:PB:207:LEU:HB3	45:PB:225:LEU:CD2	2.38	0.42
44:PC:63:PRO:HD3	44:PC:86:LEU:HG	2.01	0.42
44:PC:221:ARG:NE	45:PD:322:SER:OG	2.52	0.42
44:PC:254:GLU:HG2	45:PF:98:GLY:CA	2.32	0.42
44:PC:325:PRO:HG3	45:PF:222:TYR:CE1	2.54	0.42
45:PD:10:GLY:HA3	45:PD:143:THR:HG23	2.01	0.42
45:PD:290:THR:HG23	45:PD:291:GLN:N	2.34	0.42
45:PD:415:MET:O	45:PD:418:LEU:HB3	2.19	0.42
44:PE:246:GLY:HA2	44:PE:357:TYR:HD2	1.79	0.42
45:PF:251:ARG:O	45:PF:255:VAL:HG23	2.19	0.42
44:PG:278:ALA:HB2	44:PG:369:ALA:HB2	2.01	0.42
45:PH:70:PRO:O	45:PH:74:ASP:HB2	2.19	0.42
45:PH:201:VAL:HG13	45:PH:301:CYS:SG	2.59	0.42
44:PI:275:ILE:C	44:PI:276:ILE:HD12	2.39	0.42
44:PI:315:CYS:SG	44:PI:379:SER:HB3	2.59	0.42
44:PI:413:MET:CE	44:PI:417:GLU:HG3	2.49	0.42
45:PJ:182:PRO:CG	45:PJ:384:GLN:HB3	2.48	0.42
44:PK:63:PRO:CG	44:PK:86:LEU:HG	2.48	0.42
44:PK:349:THR:HG23	44:PK:349:THR:O	2.19	0.42
45:PL:337:ASN:O	45:PL:341:PHE:HD1	2.01	0.42
44:PM:1:MET:HG2	44:PM:2:ARG:HH11	1.84	0.42
44:PM:73:THR:HG1	45:PN:2:ARG:NH2	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:119:LEU:O	44:QA:123:ARG:N	2.39	0.42
44:QA:270:SER:HB2	44:QA:378:ILE:HD13	2.01	0.42
45:QB:49:VAL:HG21	45:QB:241:ARG:CG	2.38	0.42
45:QB:130:LEU:CG	45:QB:162:ARG:HD2	2.49	0.42
45:QB:182:PRO:HG2	45:QB:388:MET:HE3	2.01	0.42
45:QB:256:ASN:O	45:QB:257:LEU:HD12	2.19	0.42
44:QC:88:HIS:CG	44:QC:121:ARG:HH12	2.36	0.42
44:QC:202:VAL:HG13	44:QC:269:LEU:CA	2.42	0.42
44:QC:244:PHE:CE2	44:QC:358:GLN:HG2	2.54	0.42
44:QC:409:VAL:HA	44:QC:413:MET:O	2.18	0.42
44:QE:313:MET:HE3	44:QE:382:THR:N	2.35	0.42
44:QG:88:HIS:H	44:QG:91:GLN:HE21	1.65	0.42
44:QG:244:PHE:CZ	44:QG:358:GLN:HG2	2.54	0.42
45:QH:113:ILE:HA	45:QH:116:VAL:CG1	2.40	0.42
44:QI:11:GLN:HB3	46:QI:501:GTP:O3A	2.19	0.42
44:QI:147:SER:O	44:QI:190:SER:HB3	2.18	0.42
45:QJ:15:GLN:O	45:QJ:18:ALA:N	2.52	0.42
45:QJ:135:ILE:HG22	45:QJ:137:HIS:ND1	2.34	0.42
45:QJ:258:ILE:HD11	45:QJ:266:PHE:HZ	1.83	0.42
44:QK:209:ILE:HG22	44:QK:227:LEU:HD22	2.00	0.42
44:RA:221:ARG:NE	44:RA:221:ARG:HA	2.33	0.42
44:RA:318:MET:O	44:RA:375:VAL:HA	2.19	0.42
44:RC:23:LEU:HD21	44:RC:236:SER:CB	2.49	0.42
44:RC:323:VAL:HG13	44:RC:323:VAL:O	2.19	0.42
45:RD:66:MET:HG3	45:RD:66:MET:O	2.18	0.42
45:RD:167:PHE:HE2	45:RD:233:MET:CB	2.31	0.42
45:RD:269:GLY:HA2	45:RD:300:MET:HE1	2.00	0.42
44:RE:47:ASP:HA	44:RE:49:PHE:HE1	1.81	0.42
45:RF:73:MET:HE2	45:RF:90:PHE:CD1	2.52	0.42
45:RF:204:ASN:HA	45:RF:207:LEU:HD12	2.01	0.42
45:RF:330:MET:HG3	45:RF:349:ILE:HG21	2.01	0.42
45:RH:322:SER:OG	44:RI:222:PRO:O	2.22	0.42
44:RI:107:HIS:HB2	44:RI:148:GLY:HA2	2.00	0.42
44:RI:109:THR:HG22	44:RI:110:ILE:HG23	2.01	0.42
44:RI:318:MET:N	44:RI:376:CYS:O	2.47	0.42
44:RK:292:THR:O	44:RK:295:ALA:HB3	2.19	0.42
45:RL:50:TYR:HE2	45:RL:237:THR:HG21	1.84	0.42
45:RL:251:ARG:CA	45:RL:254:ALA:HB3	2.48	0.42
45:RL:309:ARG:HD2	45:RL:340:TYR:C	2.39	0.42
44:RM:288:VAL:HA	44:RM:291:ILE:HG12	2.01	0.42
45:RN:20:PHE:CE1	45:RN:24:ILE:HD11	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:356:ASN:OD1	44:SC:357:TYR:N	2.47	0.42
45:SD:36:TYR:CZ	45:SD:38:GLY:HA3	2.54	0.42
44:SE:7:ILE:HD12	44:SE:122:ILE:CD1	2.48	0.42
44:SE:176:GLN:HG2	44:SE:177:VAL:N	2.34	0.42
44:SE:291:ILE:O	44:SE:294:SER:HB3	2.18	0.42
45:SF:46:ARG:HH22	44:SG:72:PRO:HB2	1.84	0.42
44:SG:142:GLY:O	46:SG:501:GTP:H4'	2.19	0.42
44:SG:172:TYR:HB3	44:SG:173:PRO:HD2	2.01	0.42
44:SG:345:ASP:HB2	44:SG:438:GLU:CG	2.48	0.42
45:SH:42:LEU:HG	45:SH:45:GLU:OE2	2.18	0.42
45:SH:186:THR:C	45:SH:189:VAL:HG12	2.38	0.42
45:SH:192:LEU:HD23	45:SH:265:PHE:CE2	2.53	0.42
44:SI:183:GLU:HA	44:SI:186:ASN:OD1	2.19	0.42
45:SJ:21:TRP:CZ3	45:SJ:61:PRO:HB3	2.54	0.42
45:SJ:263:LEU:HD12	45:SJ:263:LEU:HA	1.82	0.42
44:SM:317:MET:HA	44:SM:376:CYS:O	2.19	0.42
45:SN:47:ILE:O	45:SN:51:TYR:HB2	2.19	0.42
45:SN:180:VAL:O	45:SN:180:VAL:HG22	2.18	0.42
45:SN:211:CYS:CB	45:SN:217:LEU:HD21	2.49	0.42
44:TA:4:VAL:HG12	44:TA:51:THR:HG22	2.00	0.42
44:TA:240:ALA:HB1	44:TA:356:ASN:ND2	2.34	0.42
44:TA:262:TYR:HB3	44:TA:263:PRO:HD2	2.01	0.42
44:TA:296:PHE:CD1	44:TA:377:MET:HE1	2.54	0.42
44:TA:332:ILE:HA	44:TA:335:ILE:HG12	2.00	0.42
45:TB:258:ILE:HD11	45:TB:260:PHE:O	2.18	0.42
45:TB:286:VAL:CG1	45:TB:325:GLU:HG2	2.47	0.42
44:TC:287:SER:OG	44:TC:290:GLU:HG2	2.19	0.42
45:TD:113:ILE:CG1	45:TD:151:LEU:HD11	2.48	0.42
45:TD:377:MET:HE2	45:TD:380:ARG:CZ	2.49	0.42
44:TE:276:ILE:CD1	44:TE:281:ALA:HA	2.48	0.42
44:TE:372:MET:SD	44:TE:373:ARG:CD	3.07	0.42
45:TF:19:LYS:HE3	45:TF:226:ASN:C	2.38	0.42
44:TG:102:ASN:HD21	44:TG:411:GLU:HG3	1.84	0.42
44:TG:151:SER:O	44:TG:155:GLU:N	2.48	0.42
44:TG:223:THR:HG23	44:TG:225:THR:H	1.84	0.42
44:TG:346:TRP:O	45:TH:388:MET:HE2	2.19	0.42
45:TH:392:LYS:HG3	45:TH:395:LEU:HD22	2.00	0.42
44:TI:125:LEU:HD23	44:TI:125:LEU:HA	1.93	0.42
45:TJ:135:ILE:HB	45:TJ:166:THR:HG22	2.01	0.42
45:TJ:246:LEU:HA	44:TK:11:GLN:NE2	2.34	0.42
45:TJ:286:VAL:HG13	45:TJ:317:PHE:CE2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TK:55:GLU:OE1	44:TK:55:GLU:HA	2.19	0.42
45:TL:102:ALA:HB2	45:TL:398:TYR:HD1	1.81	0.42
45:TL:204:ASN:OD1	45:TL:205:GLU:N	2.52	0.42
44:TM:105:ARG:O	44:TM:109:THR:HB	2.19	0.42
44:TM:256:GLN:OE1	44:TM:260:VAL:HG11	2.19	0.42
45:TN:4:ILE:HD12	45:TN:5:VAL:H	1.84	0.42
45:TN:311:LEU:HD21	45:TN:372:THR:OG1	2.18	0.42
44:UA:24:PHE:CE1	44:UA:236:SER:HB2	2.53	0.42
44:UA:296:PHE:CE2	44:UA:335:ILE:HG13	2.52	0.42
45:UB:16:ILE:O	45:UB:20:PHE:N	2.44	0.42
45:UB:36:TYR:CD2	45:UB:44:LEU:HD21	2.54	0.42
44:UC:35:GLN:OE1	44:UC:35:GLN:N	2.52	0.42
45:UD:170:VAL:HG23	45:UD:377:MET:HE1	2.01	0.42
45:UD:215:LEU:C	45:UD:217:LEU:H	2.21	0.42
45:UD:321:MET:HB2	44:UE:221:ARG:HH21	1.84	0.42
44:UE:175:PRO:HD2	44:UE:207:GLU:OE1	2.20	0.42
45:UF:258:ILE:HD11	45:UF:266:PHE:HZ	1.84	0.42
45:UH:213:ARG:HH21	45:UH:297:LYS:NZ	2.16	0.42
44:UI:126:ALA:CB	44:UI:161:TYR:OH	2.67	0.42
44:UI:306:ASP:OD1	44:UI:307:PRO:HD2	2.19	0.42
44:UI:390:ARG:HG3	44:UI:391:LEU:N	2.34	0.42
45:UJ:60:VAL:HG13	45:UJ:60:VAL:O	2.18	0.42
45:UJ:179:VAL:O	45:UJ:182:PRO:HD2	2.19	0.42
45:UJ:270:PHE:CD2	45:UJ:273:LEU:HD21	2.53	0.42
44:UK:71:GLU:HA	44:UK:72:PRO:HD3	1.87	0.42
44:UK:352:LYS:CD	45:UL:178:THR:HA	2.48	0.42
45:UL:149:THR:HG23	45:UL:150:LEU:N	2.33	0.42
44:UM:5:ILE:HG23	44:UM:64:ARG:C	2.39	0.42
44:UM:183:GLU:HG2	44:UM:184:PRO:CD	2.49	0.42
44:UM:192:HIS:ND1	44:UM:424:ASP:OD2	2.51	0.42
44:UM:201:ALA:O	44:UM:267:PHE:HA	2.19	0.42
44:UM:344:VAL:HG21	44:UM:346:TRP:NE1	2.34	0.42
45:UN:24:ILE:O	45:UN:28:HIS:N	2.47	0.42
44:VA:109:THR:HG22	44:VA:110:ILE:HG23	1.99	0.42
44:VA:116:ASP:O	44:VA:119:LEU:N	2.52	0.42
44:VA:221:ARG:HH21	45:VB:321:MET:HE2	1.84	0.42
45:VB:20:PHE:HB2	45:VB:233:MET:HE3	2.01	0.42
45:VB:345:ILE:HG23	45:VB:345:ILE:O	2.18	0.42
44:VC:269:LEU:HD23	44:VC:269:LEU:H	1.83	0.42
45:VD:11:GLN:H	48:VD:501:GDP:PB	2.40	0.42
45:VD:72:THR:O	45:VD:75:SER:OG	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:226:ASN:O	45:VD:230:SER:N	2.48	0.42
45:VD:260:PHE:HB3	45:VD:261:PRO:CD	2.44	0.42
44:VE:161:TYR:HB3	44:VE:164:LYS:HZ3	1.78	0.42
45:VF:251:ARG:O	45:VF:254:ALA:HB3	2.19	0.42
45:VF:268:ILE:HG22	45:VF:368:VAL:HA	2.00	0.42
45:VF:318:ARG:HB2	45:VF:364:ALA:HB3	1.99	0.42
44:VG:224:TYR:CE2	45:VH:323:THR:HG21	2.54	0.42
44:VG:317:MET:HE2	44:VG:319:TYR:CE1	2.53	0.42
45:VH:35:THR:HB	45:VH:37:HIS:HE1	1.83	0.42
45:VH:141:GLY:HA3	48:VH:501:GDP:PA	2.59	0.42
45:VH:342:VAL:CG1	45:VH:345:ILE:HG22	2.37	0.42
44:VI:36:MET:HB2	44:VI:61:HIS:CE1	2.53	0.42
44:VI:270:SER:HB2	44:VI:378:ILE:CD1	2.49	0.42
45:VJ:7:ILE:HG23	45:VJ:66:MET:HE1	1.99	0.42
45:VJ:251:ARG:O	45:VJ:254:ALA:N	2.49	0.42
45:VJ:376:GLU:O	45:VJ:379:LYS:HB2	2.19	0.42
44:VK:214:ARG:NH2	44:VK:215:ARG:HG2	2.34	0.42
45:VL:6:HIS:NE2	45:VL:8:GLN:OE1	2.52	0.42
44:WA:145:THR:O	44:WA:149:LEU:HD23	2.18	0.42
45:WB:145:SER:O	45:WB:149:THR:OG1	2.37	0.42
45:WD:2:ARG:NH2	45:WD:240:LEU:HG	2.34	0.42
45:WD:232:ALA:HB1	45:WD:268:ILE:HD12	2.01	0.42
45:WD:256:ASN:CG	45:WD:350:LYS:HD2	2.39	0.42
44:WE:155:GLU:OE2	44:WE:193:SER:OG	2.30	0.42
44:WE:268:MET:HB2	44:WE:380:ASN:HA	2.01	0.42
45:WF:32:PRO:HA	45:WF:81:PHE:CD1	2.54	0.42
45:WF:133:PHE:HD2	45:WF:164:MET:CE	2.32	0.42
44:WG:5:ILE:HD11	44:WG:135:PHE:CE1	2.54	0.42
44:WG:311:LYS:O	44:WG:381:SER:HB2	2.19	0.42
44:WG:372:MET:HG3	44:WG:372:MET:O	2.19	0.42
44:WI:137:VAL:O	44:WI:168:GLY:HA2	2.18	0.42
44:WI:390:ARG:HG3	44:WI:391:LEU:HD12	2.01	0.42
45:WJ:200:MET:HA	45:WJ:266:PHE:O	2.19	0.42
44:WK:32:PRO:HB3	44:WK:83:TYR:HE1	1.82	0.42
44:WK:230:LEU:CD1	44:WK:275:ILE:HD13	2.45	0.42
45:WL:310:TYR:HB2	45:WL:341:PHE:CE2	2.54	0.42
44:WM:88:HIS:HB3	44:WM:91:GLN:CD	2.38	0.42
44:WM:257:THR:O	44:WM:257:THR:HG22	2.19	0.42
44:WM:316:SER:HA	44:WM:352:LYS:HG2	2.01	0.42
44:WM:319:TYR:CZ	44:WM:375:VAL:HG21	2.54	0.42
3:0B:200:PHE:CG	44:KI:370:LYS:HE3	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1A:37:THR:HG21	45:MF:320:ARG:HD2	2.00	0.42
4:1C:110:LYS:NZ	44:DM:33:ASP:OD2	2.45	0.42
20:1J:304:ASN:O	44:IK:278:ALA:HB3	2.19	0.42
20:1J:315:PHE:H	44:IK:372:MET:CE	2.32	0.42
21:1K:212:ARG:NH2	44:GA:371:VAL:HG23	2.34	0.42
25:1P:337:GLN:HE22	44:TC:29:GLY:HA2	1.83	0.42
24:2O:181:MET:HE1	45:VL:279:GLN:HB2	2.02	0.42
15:2V:225:THR:HG23	45:VH:77:ARG:NH2	2.34	0.42
37:5A:156:VAL:HG23	44:KC:433:GLU:OE1	2.18	0.42
37:5D:20:LEU:HB2	45:KN:418:LEU:HB3	2.00	0.42
37:5D:118:PRO:HA	44:NM:325:PRO:HG3	2.01	0.42
38:5G:120:GLU:CG	38:5G:121:GLU:HG2	2.38	0.42
38:5G:155:MET:O	38:5G:159:GLN:N	2.33	0.42
38:5G:198:PHE:O	44:LK:393:HIS:CE1	2.71	0.42
39:5J:113:GLN:HE22	45:JJ:410:GLU:CG	2.28	0.42
11:5Q:115:LYS:HB3	11:5Q:116:PRO:CD	2.41	0.42
35:5R:573:LEU:HD12	35:5R:573:LEU:O	2.19	0.42
41:6G:220:LEU:HA	41:6G:223:THR:HG22	2.01	0.42
41:6G:226:GLY:HA3	44:VC:340:THR:CG2	2.48	0.42
35:7R:95:PHE:HB3	35:7R:180:ILE:HG21	2.00	0.42
35:7R:171:ILE:HG22	35:7R:173:LEU:HD12	2.01	0.42
35:7R:264:ASP:HB3	35:7R:269:GLY:CA	2.40	0.42
35:7R:464:GLY:C	45:FB:276:ARG:HB3	2.40	0.42
35:7R:478:ASN:ND2	35:7R:480:ILE:H	2.16	0.42
43:8R:83:UNK:O	43:8R:86:UNK:N	2.52	0.42
43:8R:212:UNK:O	43:8R:216:UNK:N	2.52	0.42
44:AA:88:HIS:CE1	44:AA:89:PRO:HD2	2.53	0.42
44:AA:105:ARG:CA	44:AA:109:THR:HG22	2.38	0.42
44:AA:183:GLU:CD	44:AA:184:PRO:HD3	2.40	0.42
45:AB:179:VAL:O	45:AB:182:PRO:HD2	2.20	0.42
45:AB:271:ALA:C	45:AB:365:VAL:HG22	2.39	0.42
44:AC:104:ALA:CB	44:AC:413:MET:HB2	2.49	0.42
44:AE:188:ILE:HG22	44:AE:421:ALA:CB	2.46	0.42
45:AF:241:ARG:HG3	45:AF:241:ARG:NH1	2.34	0.42
45:AF:398:TYR:HB3	45:AF:403:MET:HE1	1.96	0.42
44:AG:169:PHE:HE2	44:AG:235:ILE:HD13	1.84	0.42
44:AG:283:HIS:ND1	44:MG:89:PRO:HD3	2.34	0.42
45:AH:18:ALA:HB2	45:AH:76:VAL:HG23	2.01	0.42
45:AH:65:LEU:HD23	45:AH:76:VAL:HG11	2.01	0.42
45:AH:313:ALA:HB3	45:AH:349:ILE:HD13	2.01	0.42
44:AI:432:TYR:O	44:AI:435:VAL:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AJ:2:ARG:HH21	45:AJ:240:LEU:HD12	1.84	0.42
44:AK:205:ASP:OD2	44:AK:303:ALA:HB1	2.20	0.42
45:AN:286:VAL:HG23	45:AN:287:PRO:HD3	1.99	0.42
45:AN:386:THR:HG23	45:AN:387:ALA:N	2.34	0.42
44:BA:66:VAL:HG21	44:BA:121:ARG:HG2	2.00	0.42
44:BA:200:VAL:HG13	44:BA:268:MET:CE	2.49	0.42
44:BA:222:PRO:HG2	45:BB:324:LYS:HD3	1.96	0.42
44:BC:66:VAL:HG22	44:BC:68:LEU:HD21	1.98	0.42
44:BE:24:PHE:HZ	44:BE:235:ILE:CG2	2.28	0.42
44:BE:301:MET:HA	44:BE:301:MET:HE3	2.01	0.42
44:BE:317:MET:HE2	44:BE:375:VAL:HG21	2.01	0.42
45:BF:242:PHE:HD2	45:BF:356:ILE:HB	1.83	0.42
45:BF:317:PHE:HB2	45:BF:352:SER:O	2.20	0.42
44:BG:141:VAL:HG22	44:BG:172:TYR:HA	2.00	0.42
44:BG:419:SER:O	44:BG:422:ARG:HB3	2.19	0.42
45:BH:1:MET:C	45:BH:2:ARG:HG2	2.40	0.42
45:BH:49:VAL:HG11	45:BH:240:LEU:CD2	2.49	0.42
44:BI:181:VAL:HG22	44:BI:181:VAL:O	2.19	0.42
44:BI:337:THR:O	44:BI:339:ARG:NH1	2.52	0.42
44:BK:21:TRP:CZ3	44:BK:24:PHE:HD2	2.37	0.42
45:BL:72:THR:HG23	45:BL:73:MET:N	2.34	0.42
45:BL:262:ARG:CZ	45:BL:262:ARG:HB3	2.48	0.42
44:BM:89:PRO:HD3	44:CM:283:HIS:ND1	2.33	0.42
44:BM:119:LEU:HG	44:BM:156:ARG:HD3	2.01	0.42
44:BM:188:ILE:HD12	44:BM:395:PHE:HB2	2.00	0.42
45:BN:189:VAL:HG11	45:BN:415:MET:SD	2.59	0.42
45:BN:326:VAL:O	45:BN:330:MET:HG2	2.19	0.42
44:CA:89:PRO:HD3	44:DA:280:LYS:NZ	2.33	0.42
44:CA:372:MET:C	44:CA:373:ARG:HG3	2.40	0.42
45:CD:318:ARG:HH11	45:CD:358:PRO:HG3	1.84	0.42
45:CD:324:LYS:HB2	44:CE:210:TYR:HE1	1.82	0.42
44:CE:287:SER:O	44:CE:290:GLU:HG2	2.18	0.42
45:CF:1:MET:SD	44:CG:72:PRO:HG2	2.58	0.42
45:CF:288:GLU:HA	45:CF:291:GLN:HG2	2.01	0.42
45:CF:319:GLY:HA2	45:CF:357:PRO:HG3	2.01	0.42
45:CH:2:ARG:HB2	45:CH:131:GLN:HB2	2.01	0.42
45:CH:203:ASP:OD2	45:CH:377:MET:HE3	2.18	0.42
45:CH:390:ARG:HG3	45:CH:391:ARG:HG2	2.01	0.42
44:CI:33:ASP:O	44:CI:35:GLN:NE2	2.51	0.42
45:CJ:256:ASN:HB3	44:CK:181:VAL:HG22	2.00	0.42
45:CL:304:ASP:HB3	45:CL:307:HIS:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:12:GLY:O	44:CM:16:VAL:HG12	2.19	0.42
44:CM:312:TYR:HB2	44:CM:343:PHE:CE1	2.55	0.42
45:CN:70:PRO:HG3	45:CN:93:GLY:O	2.20	0.42
45:CN:318:ARG:N	45:CN:364:ALA:O	2.52	0.42
45:CN:319:GLY:HA3	45:CN:363:MET:HG3	2.01	0.42
44:DA:28:HIS:HB2	44:DA:30:ILE:CD1	2.49	0.42
44:DA:349:THR:O	45:DB:179:VAL:HG12	2.19	0.42
45:DB:36:TYR:CZ	45:DB:44:LEU:HG	2.54	0.42
45:DB:86:ARG:CZ	45:EB:281:TYR:HD2	2.32	0.42
45:DB:113:ILE:CG1	45:DB:154:LYS:HE3	2.49	0.42
45:DB:114:ASP:OD1	45:DB:115:SER:N	2.50	0.42
45:DB:213:ARG:NH1	45:DB:214:THR:HG22	2.18	0.42
45:DB:334:GLN:HE22	45:DB:341:PHE:HB2	1.81	0.42
45:DB:361:LEU:HD21	45:DB:363:MET:O	2.19	0.42
44:DC:9:VAL:HG21	44:DC:149:LEU:CB	2.49	0.42
44:DC:274:PRO:HD2	44:DC:374:ALA:HB2	2.00	0.42
44:DE:181:VAL:HG13	44:DE:404:PHE:HE2	1.81	0.42
44:DE:328:VAL:HG11	44:DE:353:VAL:HG21	2.01	0.42
45:DF:267:MET:HE1	45:DF:371:SER:O	2.19	0.42
44:DG:36:MET:CE	44:DG:37:PRO:HD2	2.48	0.42
44:DG:268:MET:CE	44:DG:380:ASN:HB2	2.49	0.42
45:DH:274:THR:HG22	45:DH:278:SER:HB3	2.00	0.42
45:DH:314:SER:HG	45:DH:315:ALA:H	1.67	0.42
45:DJ:53:GLU:OE1	45:DJ:59:TYR:HE2	2.01	0.42
45:DJ:161:ASP:OD1	45:DJ:162:ARG:N	2.52	0.42
44:DK:221:ARG:NH1	44:DK:221:ARG:HB3	2.34	0.42
44:DK:360:PRO:O	44:DK:360:PRO:CD	2.67	0.42
45:DL:294:PHE:HE1	45:DL:367:PHE:CD1	2.37	0.42
44:DM:75:ILE:HG22	44:DM:79:ARG:HH11	1.84	0.42
44:DM:169:PHE:O	44:DM:204:LEU:HD12	2.19	0.42
44:DM:217:LEU:HD13	44:DM:367:ASP:CB	2.49	0.42
45:DN:51:TYR:HB3	45:DN:59:TYR:HB3	2.00	0.42
44:EA:268:MET:HE3	44:EA:380:ASN:HB2	2.00	0.42
44:EA:288:VAL:O	44:EA:292:THR:HG22	2.19	0.42
44:EA:305:CYS:SG	44:EA:384:ILE:HD12	2.59	0.42
44:EA:314:ALA:HB1	44:EA:352:LYS:NZ	2.34	0.42
45:EB:130:LEU:HG	45:EB:162:ARG:HD3	2.01	0.42
44:EC:393:HIS:NE2	44:EC:397:LEU:HD11	2.34	0.42
44:EE:36:MET:HB2	44:EE:37:PRO:HD3	2.00	0.42
44:EE:60:LYS:HE2	44:EE:61:HIS:O	2.19	0.42
44:EE:195:LEU:HD12	44:EE:266:HIS:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:9:GLY:HA2	45:EF:66:MET:CG	2.46	0.42
45:EF:324:LYS:HG3	44:EG:210:TYR:CD2	2.54	0.42
44:EG:237:SER:CA	44:EG:320:ARG:HH11	2.32	0.42
45:EJ:260:PHE:HB2	45:EJ:263:LEU:HD13	2.01	0.42
45:EJ:286:VAL:N	45:EJ:287:PRO:CD	2.82	0.42
45:EJ:324:LYS:O	45:EJ:328:GLU:HG2	2.18	0.42
44:EK:184:PRO:O	44:EK:188:ILE:HG12	2.19	0.42
44:EK:200:VAL:HG13	44:EK:268:MET:HE1	2.00	0.42
44:EK:276:ILE:HG13	44:EK:281:ALA:HB1	2.01	0.42
44:EK:428:LEU:HG	44:EK:432:TYR:CE2	2.54	0.42
44:EM:137:VAL:CG1	44:EM:168:GLY:HA2	2.48	0.42
45:EN:420:SER:O	45:EN:424:GLN:HB2	2.19	0.42
44:FA:8:HIS:HD2	44:FA:138:PHE:HB2	1.84	0.42
44:FA:11:GLN:HG2	44:FA:15:GLN:CG	2.49	0.42
44:FA:168:GLY:O	44:FA:201:ALA:HA	2.19	0.42
44:FE:292:THR:HG23	44:FE:293:ASN:N	2.34	0.42
45:FF:202:ILE:HD11	45:FF:300:MET:CE	2.48	0.42
45:FH:130:LEU:HD22	45:FH:162:ARG:CD	2.47	0.42
45:FH:279:GLN:HG3	45:FH:282:ARG:HH21	1.84	0.42
45:FH:304:ASP:O	45:FH:373:ALA:HB1	2.19	0.42
44:FI:75:ILE:CG2	44:FI:92:LEU:HB3	2.50	0.42
44:FI:92:LEU:HD12	44:FI:92:LEU:N	2.34	0.42
44:FI:97:GLU:HG3	44:FI:105:ARG:HH12	1.84	0.42
44:FI:119:LEU:HD13	44:FI:122:ILE:HG21	2.01	0.42
44:FI:235:ILE:HD12	44:FI:235:ILE:H	1.84	0.42
45:FJ:190:HIS:O	45:FJ:193:VAL:HG12	2.19	0.42
44:FK:70:LEU:HD12	44:FK:145:THR:CB	2.45	0.42
44:FK:138:PHE:HE1	44:FK:169:PHE:HD2	1.67	0.42
45:FL:169:VAL:HG23	45:FL:169:VAL:O	2.18	0.42
45:FL:244:GLY:HA2	45:FL:355:ASP:OD2	2.19	0.42
45:FL:285:THR:OG1	45:FL:287:PRO:HD2	2.19	0.42
45:FL:303:ALA:N	45:FL:377:MET:HE2	2.34	0.42
45:FL:388:MET:HG3	45:FL:388:MET:O	2.18	0.42
44:FM:31:GLN:HB3	44:FM:32:PRO:HD2	2.00	0.42
44:FM:53:PHE:HA	44:FM:63:PRO:HA	2.00	0.42
44:GA:209:ILE:HA	44:GA:212:ILE:HB	2.01	0.42
44:GA:228:ASN:O	44:GA:231:ILE:HB	2.19	0.42
44:GA:405:VAL:HG12	44:GA:409:VAL:HG23	2.01	0.42
45:GB:130:LEU:HD11	45:GB:133:PHE:CE1	2.54	0.42
44:GC:13:GLY:HA2	44:GC:16:VAL:CG1	2.46	0.42
44:GC:183:GLU:N	44:GC:184:PRO:CD	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:137:HIS:HD2	45:GD:139:LEU:HD12	1.84	0.42
44:GE:51:THR:C	44:GE:52:PHE:HD2	2.22	0.42
44:GE:258:ASN:HD22	44:GE:352:LYS:CD	2.31	0.42
45:GH:21:TRP:CA	45:GH:24:ILE:HG22	2.47	0.42
45:GH:36:TYR:CE2	45:GH:38:GLY:HA3	2.54	0.42
45:GJ:152:ILE:HD12	45:GJ:164:MET:HE2	1.99	0.42
44:GK:223:THR:O	44:GK:226:ASN:N	2.45	0.42
45:GL:101:TRP:HE1	45:GL:105:HIS:HB2	1.83	0.42
45:GL:156:ARG:HB2	45:GL:164:MET:HE1	2.01	0.42
45:GL:183:TYR:OH	45:GL:393:ALA:O	2.25	0.42
44:GM:344:VAL:HG12	44:GM:347:CYS:HB3	1.99	0.42
45:GN:319:GLY:HA2	45:GN:355:ASP:O	2.19	0.42
45:HB:257:LEU:HD21	45:HB:314:SER:HB2	2.02	0.42
45:HB:296:ALA:HA	45:HB:305:PRO:HG2	2.01	0.42
44:HC:288:VAL:HG11	44:HC:327:ASP:HB3	2.01	0.42
45:HD:67:ASP:OD2	45:HD:72:THR:OG1	2.23	0.42
44:HE:223:THR:N	44:HE:226:ASN:OD1	2.42	0.42
44:HE:239:THR:HG23	44:HE:243:ARG:HH11	1.84	0.42
45:HF:210:ILE:O	45:HF:214:THR:N	2.49	0.42
45:HH:36:TYR:CE2	45:HH:44:LEU:HG	2.54	0.42
45:HH:134:GLN:O	45:HH:134:GLN:HG3	2.19	0.42
45:HL:297:LYS:HA	45:HL:297:LYS:CE	2.39	0.42
44:HM:32:PRO:HB3	44:HM:83:TYR:CE1	2.53	0.42
44:HM:60:LYS:HD3	44:IM:283:HIS:CD2	2.54	0.42
44:HM:97:GLU:HG3	44:HM:105:ARG:HH12	1.84	0.42
44:HM:217:LEU:HG	44:HM:275:ILE:CG2	2.49	0.42
44:HM:224:TYR:HE2	45:HN:246:LEU:HD11	1.84	0.42
44:HM:225:THR:HA	44:HM:228:ASN:OD1	2.18	0.42
44:HM:314:ALA:CB	44:HM:380:ASN:HB3	2.49	0.42
45:HN:1:MET:CE	45:HN:1:MET:N	2.82	0.42
45:HN:5:VAL:HG12	45:HN:6:HIS:N	2.34	0.42
45:HN:202:ILE:CG2	45:HN:207:LEU:HD21	2.49	0.42
44:IA:99:ALA:HB3	44:IA:145:THR:HB	2.01	0.42
44:IA:208:ALA:O	44:IA:211:ASP:HB2	2.18	0.42
45:IB:233:MET:N	45:IB:233:MET:SD	2.92	0.42
45:IB:272:PRO:HD3	45:IB:289:LEU:CD2	2.48	0.42
44:IC:208:ALA:HB3	44:IC:302:MET:O	2.19	0.42
44:IC:288:VAL:HG11	44:IC:327:ASP:OD1	2.19	0.42
45:ID:52:ASN:ND2	45:ID:62:ARG:HB3	2.33	0.42
45:ID:151:LEU:HD23	45:ID:155:VAL:HG21	2.01	0.42
45:ID:187:LEU:HD12	45:ID:411:ALA:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IF:66:MET:O	45:IF:66:MET:HG3	2.19	0.42
44:IG:99:ALA:HB3	44:IG:145:THR:CB	2.49	0.42
44:IG:207:GLU:CD	44:IG:304:LYS:HZ2	2.22	0.42
44:II:181:VAL:HG22	45:IJ:256:ASN:OD1	2.18	0.42
44:II:244:PHE:CE2	44:II:358:GLN:HG2	2.54	0.42
45:IJ:113:ILE:O	45:IJ:116:VAL:HG12	2.19	0.42
45:IJ:241:ARG:O	45:IJ:242:PHE:HD1	2.02	0.42
45:IJ:341:PHE:HD2	45:IJ:348:ASN:ND2	2.17	0.42
44:IK:210:TYR:HE1	44:IK:227:LEU:CD1	2.29	0.42
45:IL:132:GLY:HA3	45:IL:163:ILE:HG22	2.01	0.42
45:IL:317:PHE:HB3	45:IL:321:MET:HE3	2.01	0.42
44:IM:229:ARG:O	44:IM:233:GLN:NE2	2.52	0.42
44:IM:373:ARG:HG3	44:IM:373:ARG:NH1	2.33	0.42
45:IN:233:MET:HE2	45:IN:233:MET:HB3	1.89	0.42
45:IN:241:ARG:NH1	45:IN:242:PHE:HE2	2.16	0.42
45:IN:323:THR:HA	45:IN:326:VAL:CG2	2.49	0.42
45:JB:290:THR:O	45:JB:293:MET:HG2	2.19	0.42
44:JE:156:ARG:HG3	44:JE:156:ARG:HH11	1.83	0.42
44:JE:318:MET:HB2	44:JE:376:CYS:SG	2.59	0.42
44:JE:339:ARG:HH21	44:JE:342:GLN:HB3	1.83	0.42
44:JE:402:ARG:C	44:JE:405:VAL:HG23	2.40	0.42
45:JF:151:LEU:O	45:JF:155:VAL:HG23	2.19	0.42
45:JF:325:GLU:HA	45:JF:328:GLU:CG	2.47	0.42
44:JG:237:SER:HA	44:JG:320:ARG:NH1	2.34	0.42
44:JG:304:LYS:CG	44:JG:304:LYS:O	2.67	0.42
45:JH:86:ARG:HD2	45:KH:281:TYR:O	2.17	0.42
45:JH:192:LEU:O	45:JH:196:ALA:HB3	2.18	0.42
45:JH:378:PHE:HD2	45:JH:418:LEU:HD22	1.84	0.42
44:JI:5:ILE:HG13	44:JI:132:LEU:CD1	2.49	0.42
44:JI:49:PHE:O	44:JI:53:PHE:N	2.44	0.42
44:JI:183:GLU:HG2	44:JI:184:PRO:HD3	2.01	0.42
44:JK:1:MET:O	44:JK:131:GLY:HA3	2.18	0.42
44:JK:138:PHE:CE2	44:JK:235:ILE:HG13	2.54	0.42
44:JM:56:THR:HG23	44:JM:58:ALA:N	2.31	0.42
45:JN:14:ASN:HD22	45:JN:73:MET:HE2	1.84	0.42
45:JN:209:ASP:OD1	45:JN:209:ASP:C	2.56	0.42
44:KA:180:ALA:HB3	44:KA:183:GLU:HB3	2.00	0.42
45:KB:117:LEU:HD12	45:KB:120:VAL:CG1	2.49	0.42
45:KB:397:TRP:HA	45:KB:397:TRP:CE3	2.53	0.42
44:KC:183:GLU:CG	44:KC:184:PRO:HD3	2.49	0.42
45:KD:223:GLY:O	45:KD:226:ASN:OD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:91:GLN:HG2	44:KE:92:LEU:HG	2.01	0.42
44:KG:97:GLU:OE2	44:KG:105:ARG:NH2	2.52	0.42
44:KG:138:PHE:CE2	44:KG:169:PHE:HD2	2.37	0.42
44:KG:256:GLN:OE1	45:KJ:397:TRP:CZ3	2.72	0.42
44:KI:267:PHE:HB3	44:KI:384:ILE:CD1	2.44	0.42
45:KJ:36:TYR:CE1	45:KJ:44:LEU:CD2	3.02	0.42
44:KK:4:VAL:HG13	44:KK:4:VAL:O	2.19	0.42
44:KK:169:PHE:HD1	44:KK:235:ILE:HD11	1.84	0.42
44:KK:319:TYR:CE1	44:KK:375:VAL:HG12	2.54	0.42
45:KL:30:ILE:HG13	45:KL:51:TYR:HE2	1.83	0.42
44:KM:3:GLU:OE1	44:KM:129:CYS:HB3	2.19	0.42
44:KM:166:LYS:O	44:KM:167:LEU:HD12	2.19	0.42
45:KN:144:GLY:O	45:KN:148:GLY:HA3	2.18	0.42
45:KN:173:PRO:HG2	45:KN:381:VAL:HA	1.97	0.42
45:KN:389:PHE:O	45:KN:391:ARG:N	2.52	0.42
44:LA:108:TYR:HA	44:LA:112:LYS:HZ3	1.84	0.42
44:LA:199:ASP:O	44:LA:266:HIS:HB2	2.18	0.42
45:LB:44:LEU:CD2	45:LB:47:ILE:HD13	2.49	0.42
45:LB:114:ASP:O	45:LB:117:LEU:HB3	2.20	0.42
45:LB:173:PRO:HB3	45:LB:384:GLN:OE1	2.18	0.42
44:LC:99:ALA:HA	44:LC:105:ARG:NH1	2.34	0.42
44:LC:145:THR:HG23	44:LC:146:GLY:H	1.84	0.42
44:LC:175:PRO:HG2	44:LC:304:LYS:HG2	2.00	0.42
44:LC:196:GLU:HG2	44:LC:197:HIS:ND1	2.34	0.42
44:LE:6:SER:O	44:LE:7:ILE:HD13	2.20	0.42
45:LF:112:LEU:O	45:LF:112:LEU:HD23	2.19	0.42
45:LF:158:GLU:HG2	45:LF:159:TYR:CD1	2.54	0.42
44:LG:183:GLU:HG2	44:LG:184:PRO:HD3	2.01	0.42
44:LG:286:LEU:HD23	44:LG:286:LEU:HA	1.90	0.42
45:LH:296:ALA:HB1	45:LH:304:ASP:OD1	2.19	0.42
44:LI:84:ARG:HG3	44:LI:85:GLN:HG2	2.00	0.42
45:LJ:257:LEU:CD2	45:LJ:368:VAL:HG12	2.49	0.42
45:LJ:315:ALA:HB1	45:LJ:317:PHE:CE1	2.55	0.42
44:LK:11:GLN:HG3	44:LK:74:VAL:HG11	2.01	0.42
44:LK:72:PRO:HG2	45:LL:1:MET:CE	2.49	0.42
44:LK:384:ILE:O	44:LK:387:VAL:HG22	2.18	0.42
45:LL:241:ARG:O	45:LL:242:PHE:HD1	2.02	0.42
44:LM:169:PHE:HA	44:LM:202:VAL:HG22	2.00	0.42
45:LN:285:THR:O	45:LN:289:LEU:HG	2.19	0.42
45:MB:325:GLU:CG	45:MB:329:GLN:HE22	2.32	0.42
44:MC:312:TYR:HE2	44:MC:341:ILE:HD12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:196:GLU:O	44:ME:197:HIS:HD2	2.02	0.42
44:ME:319:TYR:CE1	44:ME:375:VAL:HG22	2.54	0.42
44:ME:339:ARG:NE	44:ME:339:ARG:HA	2.33	0.42
45:MF:104:GLY:O	45:MF:109:GLY:HA3	2.20	0.42
44:MI:13:GLY:HA2	44:MI:16:VAL:CG1	2.46	0.42
44:MI:47:ASP:C	44:MI:47:ASP:OD1	2.57	0.42
45:MJ:7:ILE:O	45:MJ:135:ILE:HA	2.19	0.42
45:MJ:12:CYS:HB3	45:MJ:138:SER:CB	2.49	0.42
45:MJ:101:TRP:CZ3	45:MJ:187:LEU:CG	3.02	0.42
45:MJ:260:PHE:HB3	45:MJ:261:PRO:HD2	2.00	0.42
45:MJ:391:ARG:HA	45:MJ:391:ARG:HD2	1.73	0.42
44:MK:288:VAL:HG23	44:MK:291:ILE:HD11	2.01	0.42
45:ML:404:ASP:OD1	45:ML:407:GLU:HG3	2.18	0.42
44:MM:287:SER:HA	44:MM:373:ARG:NH2	2.31	0.42
45:MN:86:ARG:HA	45:MN:87:PRO:HD3	1.93	0.42
45:MN:106:TYR:CD2	45:MN:403:MET:CE	3.02	0.42
45:MN:294:PHE:HE2	45:MN:341:PHE:HZ	1.67	0.42
44:NA:24:PHE:HE1	44:NA:236:SER:HB2	1.83	0.42
44:NA:104:ALA:HB2	44:NA:408:TYR:HD2	1.82	0.42
44:NA:240:ALA:HB1	44:NA:356:ASN:ND2	2.33	0.42
44:NC:55:GLU:OE1	44:NC:61:HIS:NE2	2.52	0.42
44:NC:66:VAL:HG22	44:NC:68:LEU:HD12	2.01	0.42
44:NC:175:PRO:HB3	44:NC:390:ARG:CZ	2.49	0.42
44:NC:288:VAL:HA	44:NC:291:ILE:CG1	2.40	0.42
44:NC:332:ILE:CG2	44:NC:351:PHE:HD2	2.30	0.42
44:NC:386:GLU:O	44:NC:389:SER:HB3	2.18	0.42
44:NE:86:LEU:HD23	44:NE:87:PHE:CE2	2.54	0.42
44:NE:97:GLU:OE2	45:NF:131:GLN:HG2	2.19	0.42
44:NE:117:LEU:O	44:NE:121:ARG:N	2.46	0.42
44:NG:289:ALA:HA	44:NG:331:SER:OG	2.19	0.42
44:NG:289:ALA:C	44:NG:292:THR:HG22	2.40	0.42
45:NH:154:LYS:C	45:NH:157:GLU:HG2	2.39	0.42
45:NH:318:ARG:NH1	45:NH:358:PRO:CG	2.81	0.42
44:NI:73:THR:HB	45:NJ:247:ASN:ND2	2.34	0.42
45:NJ:32:PRO:HD3	45:NJ:81:PHE:CE1	2.55	0.42
44:NK:17:GLY:O	44:NK:20:CYS:HB2	2.19	0.42
44:NK:101:ASN:O	44:NK:186:ASN:ND2	2.51	0.42
44:NK:407:TRP:CH2	45:NL:254:ALA:HB1	2.44	0.42
45:NL:290:THR:HG23	45:NL:291:GLN:N	2.33	0.42
44:NM:17:GLY:O	44:NM:21:TRP:HD1	2.02	0.42
44:NM:363:VAL:HG13	44:NM:366:GLY:CA	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:86:ARG:HH21	45:NN:87:PRO:HD2	1.82	0.42
45:NN:139:LEU:HD22	45:NN:188:SER:HB3	2.00	0.42
45:NN:315:ALA:O	45:NN:351:SER:HA	2.19	0.42
44:OA:55:GLU:HG3	44:OA:57:GLY:N	2.23	0.42
44:OA:258:ASN:HD22	44:OA:352:LYS:HG2	1.84	0.42
44:OC:70:LEU:HD21	44:OC:110:ILE:HG22	2.01	0.42
44:OC:284:GLU:HB3	44:OC:286:LEU:CD2	2.49	0.42
45:OD:143:THR:HG23	45:OD:144:GLY:N	2.34	0.42
44:OE:288:VAL:HA	44:OE:291:ILE:CD1	2.49	0.42
45:OF:91:VAL:O	45:OF:92:PHE:HB3	2.19	0.42
45:OF:241:ARG:H	45:OF:241:ARG:HD3	1.84	0.42
45:OF:258:ILE:HD13	45:OF:266:PHE:HZ	1.84	0.42
45:OF:296:ALA:HA	45:OF:299:MET:HE1	2.01	0.42
45:OF:326:VAL:O	45:OF:330:MET:HG2	2.19	0.42
45:OF:380:ARG:HG3	45:OF:381:VAL:N	2.34	0.42
44:OG:23:LEU:HD11	44:OG:361:THR:CG2	2.49	0.42
44:OI:71:GLU:OE2	44:OI:73:THR:HG23	2.17	0.42
44:OI:258:ASN:O	44:OI:259:LEU:HD22	2.19	0.42
45:OJ:21:TRP:CZ3	45:OJ:61:PRO:HB3	2.54	0.42
45:OJ:41:ASP:OD1	45:OJ:42:LEU:N	2.51	0.42
44:OK:36:MET:SD	44:OK:37:PRO:HD2	2.59	0.42
44:OK:291:ILE:HG23	44:OK:292:THR:N	2.33	0.42
44:OK:313:MET:HE2	44:OK:381:SER:C	2.39	0.42
44:OM:231:ILE:HA	44:OM:234:VAL:HG12	2.01	0.42
45:ON:12:CYS:SG	45:ON:16:ILE:HD13	2.60	0.42
45:ON:245:GLN:HG3	45:ON:353:ILE:HD12	2.00	0.42
44:PA:4:VAL:C	44:PA:64:ARG:HD3	2.39	0.42
44:PA:67:PHE:C	44:PA:68:LEU:HD12	2.40	0.42
44:PA:179:THR:HG21	45:PB:246:LEU:HD23	2.00	0.42
44:PA:200:VAL:HG13	44:PA:268:MET:SD	2.60	0.42
45:PB:159:TYR:HB3	45:PB:162:ARG:HG3	2.00	0.42
44:PC:72:PRO:HA	44:PC:94:SER:OG	2.19	0.42
44:PC:101:ASN:C	44:PC:144:GLY:HA3	2.40	0.42
44:PC:313:MET:CE	44:PC:346:TRP:HZ2	2.32	0.42
44:PE:276:ILE:HG12	44:PE:281:ALA:HA	2.01	0.42
44:PE:285:GLN:HG3	44:PE:287:SER:H	1.84	0.42
45:PF:21:TRP:CD1	45:PF:84:LEU:HD22	2.55	0.42
45:PF:234:SER:O	45:PF:236:VAL:N	2.52	0.42
45:PF:329:GLN:O	45:PF:333:VAL:HG23	2.18	0.42
44:PG:229:ARG:HG2	44:PG:229:ARG:HH11	1.84	0.42
45:PH:61:PRO:HD2	45:PH:84:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:130:LEU:HD21	45:PH:133:PHE:CZ	2.54	0.42
45:PH:130:LEU:HG	45:PH:162:ARG:CD	2.48	0.42
45:PH:197:ASP:O	45:PH:264:HIS:HB2	2.20	0.42
45:PH:203:ASP:N	45:PH:300:MET:O	2.51	0.42
44:PI:51:THR:HG22	44:PI:52:PHE:CD1	2.54	0.42
44:PI:236:SER:HA	44:PI:243:ARG:HH22	1.84	0.42
45:PJ:237:THR:HG23	45:PJ:241:ARG:CZ	2.49	0.42
45:PJ:396:HIS:O	45:PJ:399:THR:OG1	2.29	0.42
44:PK:98:ASP:OD2	45:PL:252:LYS:HE3	2.19	0.42
45:PL:287:PRO:HA	45:PL:329:GLN:OE1	2.19	0.42
45:PL:293:MET:HG2	45:PL:367:PHE:CD1	2.54	0.42
45:PN:131:GLN:O	45:PN:163:ILE:HG12	2.19	0.42
45:PN:293:MET:SD	45:PN:367:PHE:HB2	2.59	0.42
44:QA:12:GLY:HA3	44:QA:140:SER:HB3	2.02	0.42
44:QA:52:PHE:HZ	44:QA:239:THR:HB	1.83	0.42
44:QA:295:ALA:C	44:QA:377:MET:HE1	2.39	0.42
45:QB:136:THR:HA	45:QB:167:PHE:HB2	2.01	0.42
45:QF:156:ARG:HD3	45:QF:164:MET:CE	2.49	0.42
44:QG:270:SER:HB2	44:QG:378:ILE:HD13	2.01	0.42
44:QG:405:VAL:HG12	44:QG:409:VAL:CG2	2.50	0.42
45:QH:132:GLY:HA3	45:QH:163:ILE:HG13	2.02	0.42
45:QJ:116:VAL:HG21	45:QJ:151:LEU:CD2	2.49	0.42
45:QJ:145:SER:O	45:QJ:149:THR:HG22	2.19	0.42
45:QJ:326:VAL:HG12	45:QJ:330:MET:HE1	2.00	0.42
45:QJ:428:ALA:HB1	44:QK:401:LYS:HZ3	1.84	0.42
45:QL:183:TYR:HD1	45:QL:385:PHE:CE1	2.36	0.42
45:QL:190:HIS:CB	45:QL:411:ALA:HA	2.50	0.42
45:QL:215:LEU:HD12	45:QL:216:LYS:N	2.34	0.42
45:QL:252:LYS:HA	45:QL:252:LYS:HD2	1.74	0.42
44:QM:34:GLY:CA	44:QM:86:LEU:HD21	2.49	0.42
44:QM:138:PHE:HE1	44:QM:169:PHE:CD2	2.37	0.42
44:QM:194:LEU:HD12	44:QM:195:LEU:N	2.34	0.42
44:QM:258:ASN:OD1	45:QN:179:VAL:HG22	2.19	0.42
44:RA:276:ILE:HG23	44:RA:281:ALA:HB2	2.01	0.42
44:RA:326:LYS:CG	45:RB:212:PHE:HZ	2.32	0.42
45:RB:251:ARG:HG3	45:RB:252:LYS:N	2.34	0.42
44:RC:8:HIS:HA	44:RC:138:PHE:O	2.19	0.42
45:RD:64:ILE:HG12	45:RD:119:VAL:HG21	1.97	0.42
45:RD:73:MET:HB2	45:RD:90:PHE:HE1	1.84	0.42
44:RE:7:ILE:HD11	44:RE:135:PHE:CD1	2.54	0.42
44:RE:311:LYS:HE2	44:RE:344:VAL:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:324:VAL:HG12	44:RE:326:LYS:HG3	2.00	0.42
44:RE:375:VAL:HG22	44:RE:377:MET:CE	2.49	0.42
44:RE:389:SER:O	44:RE:393:HIS:N	2.40	0.42
45:RF:4:ILE:HG22	45:RF:132:GLY:O	2.19	0.42
45:RF:12:CYS:HB3	45:RF:138:SER:HB2	2.00	0.42
44:RG:166:LYS:C	44:RG:167:LEU:HD12	2.40	0.42
44:RG:243:ARG:HH11	44:RG:244:PHE:HE2	1.67	0.42
45:RH:86:ARG:HB2	45:SH:281:TYR:HD2	1.84	0.42
45:RH:396:HIS:CE1	45:RH:397:TRP:CD1	3.07	0.42
44:RI:71:GLU:OE2	44:RI:72:PRO:HD2	2.19	0.42
44:RI:179:THR:OG1	46:RI:501:GTP:H3'	2.19	0.42
44:RI:213:CYS:SG	44:RI:217:LEU:HD12	2.59	0.42
44:RI:250:VAL:HG22	44:RI:255:PHE:HE1	1.84	0.42
45:RJ:269:GLY:HA2	45:RJ:300:MET:HE1	2.00	0.42
44:RK:78:VAL:HG11	44:RK:92:LEU:CD2	2.49	0.42
44:RK:189:LEU:O	44:RK:192:HIS:HB3	2.19	0.42
44:RK:287:SER:CB	44:RK:290:GLU:HG2	2.45	0.42
45:RL:32:PRO:HA	45:RL:81:PHE:CD2	2.54	0.42
45:RL:382:ALA:HB2	45:RL:415:MET:CE	2.49	0.42
45:RL:404:ASP:CG	45:RL:406:MET:HB2	2.40	0.42
44:RM:348:PRO:HD2	45:RN:388:MET:HE2	2.01	0.42
45:RN:304:ASP:OD1	45:RN:306:ARG:HG2	2.19	0.42
44:SA:53:PHE:HA	44:SA:63:PRO:HA	2.01	0.42
44:SA:154:LEU:CD1	44:SA:194:LEU:HB3	2.49	0.42
45:SB:119:VAL:HG13	45:SB:120:VAL:N	2.33	0.42
45:SB:318:ARG:O	45:SB:363:MET:HE1	2.19	0.42
45:SD:202:ILE:HD13	45:SD:229:VAL:HG22	2.00	0.42
44:SE:270:SER:HB2	44:SE:378:ILE:HD13	2.01	0.42
44:SE:372:MET:SD	44:SE:373:ARG:CD	3.07	0.42
45:SF:213:ARG:NH2	45:SF:298:ASN:OD1	2.45	0.42
44:SG:205:ASP:OD1	44:SG:303:ALA:HA	2.18	0.42
44:SG:208:ALA:O	44:SG:212:ILE:HG12	2.18	0.42
45:SH:2:ARG:NH2	44:SI:73:THR:OG1	2.52	0.42
45:SH:51:TYR:O	45:SH:62:ARG:NH2	2.53	0.42
45:SH:112:LEU:HD22	45:SH:147:MET:CE	2.49	0.42
45:SH:407:GLU:HA	45:SH:410:GLU:CG	2.45	0.42
44:SI:413:MET:HE3	44:SI:418:PHE:CZ	2.54	0.42
45:SJ:49:VAL:HG21	45:SJ:240:LEU:HD21	2.01	0.42
45:SJ:214:THR:CG2	45:SJ:297:LYS:HD2	2.49	0.42
44:SK:141:VAL:CG1	44:SK:172:TYR:HA	2.48	0.42
44:SK:196:GLU:O	44:SK:197:HIS:ND1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:389:SER:HA	44:SK:429:GLU:OE2	2.19	0.42
45:SL:52:ASN:HB2	45:SL:60:VAL:HG23	2.00	0.42
45:SL:178:THR:HG22	45:SL:180:VAL:H	1.83	0.42
45:SL:318:ARG:HB2	45:SL:364:ALA:CB	2.42	0.42
45:SL:416:ASN:O	45:SL:419:VAL:N	2.52	0.42
45:SL:416:ASN:HA	45:SL:419:VAL:CG2	2.48	0.42
44:SM:32:PRO:CB	44:SM:83:TYR:HE1	2.32	0.42
45:SN:3:GLU:O	45:SN:131:GLN:N	2.37	0.42
45:SN:185:ALA:HA	45:SN:188:SER:OG	2.19	0.42
45:SN:232:ALA:HB2	45:SN:270:PHE:HB2	2.01	0.42
44:TA:112:LYS:O	44:TA:115:VAL:HG12	2.18	0.42
44:TA:223:THR:O	44:TA:227:LEU:N	2.44	0.42
45:TB:67:ASP:OD1	45:TB:68:LEU:N	2.50	0.42
45:TB:330:MET:HE2	45:TB:351:SER:OG	2.18	0.42
44:TC:88:HIS:HD2	44:UC:283:HIS:HB2	1.84	0.42
44:TC:93:ILE:HD12	44:TC:93:ILE:H	1.84	0.42
44:TC:244:PHE:CD2	44:TC:358:GLN:HB2	2.52	0.42
44:TC:329:ASN:HA	44:TC:332:ILE:CG2	2.48	0.42
45:TD:4:ILE:HG13	45:TD:50:TYR:HE1	1.84	0.42
45:TD:137:HIS:HE1	45:TD:166:THR:HB	1.84	0.42
45:TD:319:GLY:C	45:TD:355:ASP:HA	2.40	0.42
44:TE:89:PRO:HB3	44:UE:280:LYS:CD	2.48	0.42
44:TE:248:LEU:HB3	44:TE:355:ILE:H	1.84	0.42
44:TE:362:VAL:HG13	44:TE:370:LYS:HB3	2.01	0.42
45:TF:72:THR:HG23	45:TF:73:MET:N	2.34	0.42
45:TF:109:GLY:O	45:TF:113:ILE:HG22	2.18	0.42
45:TF:200:MET:HE3	45:TF:268:ILE:CD1	2.48	0.42
45:TF:289:LEU:CD1	45:TF:363:MET:HG3	2.49	0.42
45:TF:330:MET:CE	45:TF:330:MET:CA	2.96	0.42
44:TG:210:TYR:HE1	44:TG:227:LEU:HD11	1.84	0.42
45:TH:65:LEU:HB3	45:TH:73:MET:SD	2.59	0.42
45:TH:149:THR:OG1	45:TH:191:GLN:HB3	2.19	0.42
44:TK:5:ILE:CG2	44:TK:7:ILE:HD11	2.50	0.42
44:TK:159:VAL:HG13	44:TK:160:ASP:N	2.34	0.42
44:TK:302:MET:O	44:TK:302:MET:HG2	2.19	0.42
45:TL:221:THR:O	45:TL:225:LEU:HG	2.18	0.42
44:TM:171:ILE:HG12	44:TM:204:LEU:HB3	2.01	0.42
44:TM:215:ARG:NH2	44:TM:300:ASN:HA	2.33	0.42
44:TM:317:MET:CE	44:TM:375:VAL:CG2	2.98	0.42
45:TN:2:ARG:HH12	45:TN:240:LEU:HA	1.82	0.42
45:TN:272:PRO:CD	45:TN:289:LEU:HD21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:180:VAL:HG22	45:UB:180:VAL:O	2.18	0.42
44:UC:12:GLY:O	44:UC:16:VAL:HG12	2.19	0.42
44:UE:183:GLU:N	44:UE:184:PRO:CD	2.82	0.42
44:UE:184:PRO:CG	44:UE:394:LYS:HE3	2.47	0.42
44:UE:288:VAL:CA	44:UE:291:ILE:HG12	2.50	0.42
44:UE:390:ARG:O	44:UE:393:HIS:HB3	2.19	0.42
45:UF:65:LEU:HD23	45:UF:73:MET:HE3	2.01	0.42
45:UF:421:GLU:O	45:UF:424:GLN:HB3	2.19	0.42
44:UG:237:SER:HA	44:UG:320:ARG:HH11	1.82	0.42
44:UG:406:HIS:CD2	44:UG:407:TRP:CD1	3.06	0.42
45:UH:47:ILE:O	45:UH:47:ILE:HG12	2.19	0.42
44:UI:313:MET:HG3	44:UI:346:TRP:HH2	1.83	0.42
45:UJ:334:GLN:HG3	45:UJ:341:PHE:CZ	2.54	0.42
45:UJ:403:MET:HE3	45:UJ:407:GLU:OE2	2.19	0.42
44:UK:14:ILE:HG22	44:UK:18:ASN:HD21	1.82	0.42
45:UL:105:HIS:CD2	45:UL:150:LEU:HD11	2.54	0.42
45:UL:240:LEU:CD1	45:UL:249:ASP:HB3	2.37	0.42
44:UM:145:THR:HG22	46:UM:501:GTP:PG	2.59	0.42
44:UM:317:MET:CG	44:UM:377:MET:HA	2.43	0.42
45:UN:189:VAL:CG1	45:UN:415:MET:HE1	2.48	0.42
45:UN:238:CYS:HA	45:UN:241:ARG:HH12	1.82	0.42
45:UN:311:LEU:HG	45:UN:372:THR:HG23	2.02	0.42
45:UN:382:ALA:O	45:UN:386:THR:HG22	2.19	0.42
44:VA:56:THR:HG22	44:VA:60:LYS:O	2.18	0.42
44:VA:101:ASN:HA	44:VA:144:GLY:HA3	2.01	0.42
44:VA:174:SER:CB	44:VA:177:VAL:HB	2.49	0.42
44:VA:363:VAL:CG2	44:VA:364:PRO:HD2	2.49	0.42
45:VB:253:LEU:O	45:VB:257:LEU:HD13	2.19	0.42
45:VB:318:ARG:HH12	45:VB:358:PRO:HA	1.84	0.42
44:VC:177:VAL:CG2	44:VC:207:GLU:HG3	2.44	0.42
44:VC:372:MET:HE3	44:VC:372:MET:HA	2.01	0.42
45:VD:1:MET:CE	45:VD:2:ARG:HD3	2.50	0.42
45:VD:167:PHE:CD2	45:VD:233:MET:SD	3.11	0.42
45:VD:274:THR:HB	45:VD:282:ARG:HH11	1.84	0.42
44:VE:174:SER:OG	44:VE:207:GLU:N	2.52	0.42
44:VE:183:GLU:N	44:VE:183:GLU:OE1	2.47	0.42
44:VE:188:ILE:HD12	44:VE:425:LEU:HD11	2.00	0.42
45:VF:134:GLN:HA	45:VF:165:GLU:CB	2.48	0.42
45:VH:163:ILE:HA	45:VH:197:ASP:OD2	2.19	0.42
44:VI:178:SER:OG	45:VJ:347:ASN:HB3	2.19	0.42
44:VI:296:PHE:CD1	44:VI:377:MET:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VJ:380:ARG:HA	45:VJ:383:GLU:CB	2.32	0.42
44:VK:88:HIS:HD2	44:WK:283:HIS:HB3	1.83	0.42
44:VK:107:HIS:HD2	44:VK:151:SER:OG	2.02	0.42
44:VK:384:ILE:HG13	44:VK:387:VAL:CG2	2.49	0.42
45:VL:1:MET:CE	45:VL:129:CYS:HB2	2.49	0.42
45:VL:285:THR:HB	45:VL:287:PRO:HD2	2.01	0.42
44:VM:24:PHE:CE1	44:VM:235:ILE:HG23	2.54	0.42
44:VM:46:ASP:O	44:VM:47:ASP:OD1	2.37	0.42
44:VM:101:ASN:OD1	45:VN:252:LYS:HD3	2.20	0.42
44:VM:225:THR:HA	44:VM:228:ASN:OD1	2.19	0.42
44:VM:236:SER:OG	44:VM:243:ARG:NH2	2.36	0.42
44:VM:252:ILE:HA	44:VM:255:PHE:CE2	2.55	0.42
45:VN:19:LYS:O	45:VN:23:VAL:HG23	2.19	0.42
45:VN:286:VAL:HG21	45:VN:325:GLU:OE1	2.19	0.42
45:VN:316:LEU:HA	45:VN:352:SER:HB2	2.00	0.42
44:WA:115:VAL:O	44:WA:119:LEU:HD23	2.19	0.42
45:WB:146:GLY:O	45:WB:149:THR:OG1	2.32	0.42
45:WB:170:VAL:CG2	45:WB:201:VAL:HG21	2.49	0.42
45:WB:252:LYS:HE2	45:WB:350:LYS:HZ2	1.84	0.42
45:WB:267:MET:SD	45:WB:267:MET:N	2.89	0.42
44:WC:28:HIS:HB2	44:WC:30:ILE:CD1	2.49	0.42
44:WC:213:CYS:CA	44:WC:217:LEU:HB2	2.49	0.42
44:WC:258:ASN:HB2	45:WF:179:VAL:CG2	2.50	0.42
44:WC:329:ASN:HB3	45:WF:175:VAL:CG1	2.49	0.42
44:WE:5:ILE:HG22	44:WE:6:SER:N	2.34	0.42
44:WE:97:GLU:CG	44:WE:105:ARG:HH12	2.32	0.42
44:WE:213:CYS:O	44:WE:217:LEU:N	2.52	0.42
44:WG:122:ILE:HA	44:WG:125:LEU:HD12	2.01	0.42
44:WG:344:VAL:HG22	44:WG:345:ASP:N	2.33	0.42
45:WH:11:GLN:CG	45:WH:72:THR:HG21	2.49	0.42
45:WH:262:ARG:O	45:WH:264:HIS:N	2.52	0.42
45:WH:317:PHE:CZ	45:WH:326:VAL:HG13	2.54	0.42
45:WH:326:VAL:HG12	45:WH:330:MET:HE2	2.00	0.42
44:WK:42:ILE:O	44:WK:42:ILE:HG22	2.18	0.42
44:WK:73:THR:OG1	45:WL:2:ARG:NH2	2.52	0.42
44:WK:183:GLU:N	44:WK:184:PRO:CD	2.82	0.42
44:WM:18:ASN:O	44:WM:21:TRP:HB2	2.19	0.42
44:WM:248:LEU:HD22	44:WM:355:ILE:HD12	2.00	0.42
44:WM:387:VAL:HA	44:WM:390:ARG:HG2	2.00	0.42
45:WN:263:LEU:HD12	45:WN:263:LEU:N	2.34	0.42
19:II:76:ARG:HH21	45:JD:224:ASP:CG	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1K:42:GLU:HG3	45:KF:213:ARG:CG	2.48	0.42
23:1M:45:PHE:CZ	45:IF:83:GLN:NE2	2.87	0.42
26:1R:84:VAL:CG2	44:MC:33:ASP:HB2	2.43	0.42
12:1S:149:HIS:HB3	44:WC:164:LYS:CE	2.49	0.42
2:2A:152:LYS:NZ	35:5R:78:ILE:O	2.39	0.42
28:2C:218:ARG:HH11	45:KJ:320:ARG:CD	2.32	0.42
31:2H:193:LEU:HD21	45:AD:362:LYS:HE2	2.00	0.42
22:2L:552:SER:HB3	44:BM:365:GLY:O	2.19	0.42
10:2N:16:ILE:CG2	45:IB:48:ASN:ND2	2.81	0.42
11:2Q:106:SER:OG	44:AE:423:GLU:OE2	2.28	0.42
11:2Q:115:LYS:NZ	44:AE:264:ARG:HH11	2.17	0.42
26:2R:92:TRP:CD2	44:AG:372:MET:SD	3.12	0.42
15:2V:232:ILE:HD11	45:WH:218:THR:HG22	2.00	0.42
27:2W:232:SER:CB	35:6R:3:TYR:HH	2.15	0.42
6:3E:141:GLN:HB3	35:6R:480:ILE:HD11	2.01	0.42
31:3H:183:PHE:CE1	45:AH:215:LEU:HD11	2.54	0.42
12:3S:261:LEU:HA	45:AN:424:GLN:HE21	1.83	0.42
13:3T:132:PRO:CA	44:MK:123:ARG:HH12	2.32	0.42
34:4F:206:TYR:HA	44:HM:79:ARG:NE	2.34	0.42
38:5G:173:LYS:NZ	45:KL:261:PRO:O	2.48	0.42
38:5H:77:LYS:O	38:5H:80:LYS:HB2	2.19	0.42
39:5J:106:GLY:O	39:5J:110:LYS:HG2	2.19	0.42
11:5Q:92:GLN:HA	11:5Q:101:ARG:O	2.19	0.42
11:5Q:142:ARG:O	11:5Q:142:ARG:HG2	2.20	0.42
36:5S:91:LEU:HD12	36:5S:91:LEU:C	2.39	0.42
35:6R:402:TYR:HD1	35:6R:402:TYR:HA	1.71	0.42
35:6R:588:LEU:HD23	35:6R:588:LEU:HA	1.89	0.42
35:7R:83:PRO:HB2	35:7R:85:TRP:CD1	2.54	0.42
35:7R:89:ASP:OD1	35:7R:90:ARG:N	2.52	0.42
35:7R:144:PHE:CD2	35:7R:145:ILE:HG13	2.54	0.42
35:7R:251:ASN:HA	35:7R:254:LYS:HZ1	1.84	0.42
35:7R:275:ILE:O	35:7R:287:ILE:HA	2.18	0.42
35:7R:600:LEU:HD23	35:7R:601:ASP:N	2.34	0.42
43:8R:273:UNK:HA	43:8R:276:UNK:CB	2.50	0.42
44:AA:404:PHE:CE2	45:AB:259:PRO:HB3	2.54	0.42
44:AE:8:HIS:HD1	44:AE:67:PHE:HE1	1.66	0.42
44:AE:278:ALA:N	44:AE:369:ALA:HB2	2.34	0.42
44:AE:293:ASN:O	44:AE:297:GLU:HG3	2.19	0.42
45:AF:242:PHE:CZ	45:AF:356:ILE:HG21	2.55	0.42
44:AG:98:ASP:OD1	44:AG:99:ALA:N	2.52	0.42
44:AG:124:LYS:HE2	44:AG:124:LYS:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AG:294:SER:HA	44:AG:297:GLU:CD	2.40	0.42
45:AH:3:GLU:CD	45:AH:127:CYS:HB2	2.40	0.42
45:AH:32:PRO:HD3	45:AH:81:PHE:CE1	2.53	0.42
44:AI:256:GLN:HB3	45:AL:397:TRP:CZ2	2.54	0.42
44:AI:413:MET:SD	44:AI:417:GLU:HG3	2.58	0.42
45:AJ:253:LEU:O	45:AJ:257:LEU:HG	2.19	0.42
45:AJ:318:ARG:N	45:AJ:364:ALA:O	2.53	0.42
44:AK:238:LEU:HD23	44:AK:238:LEU:C	2.39	0.42
44:BA:98:ASP:O	44:BA:105:ARG:NH1	2.52	0.42
44:BA:296:PHE:HE1	44:BA:377:MET:HE1	1.83	0.42
44:BA:311:LYS:N	44:BA:382:THR:OG1	2.52	0.42
44:BA:384:ILE:HG13	44:BA:387:VAL:CG2	2.49	0.42
45:BB:99:ASN:HA	45:BB:142:GLY:H	1.84	0.42
44:BC:4:VAL:CG2	44:BC:136:LEU:HG	2.49	0.42
44:BC:13:GLY:CA	44:BC:16:VAL:HG12	2.48	0.42
44:BC:181:VAL:O	44:BC:181:VAL:HG22	2.19	0.42
45:BD:208:TYR:CD1	45:BD:225:LEU:HD11	2.53	0.42
44:BE:137:VAL:O	44:BE:168:GLY:HA2	2.20	0.42
45:BF:60:VAL:HG23	45:BF:84:LEU:O	2.18	0.42
44:BG:3:GLU:O	44:BG:133:GLN:HG2	2.19	0.42
44:BG:319:TYR:HB2	44:BG:354:GLY:O	2.19	0.42
45:BH:3:GLU:OE1	45:BH:3:GLU:N	2.51	0.42
45:BH:175:VAL:O	45:BH:175:VAL:HG23	2.19	0.42
44:BI:23:LEU:HD21	44:BI:236:SER:CB	2.49	0.42
44:BI:135:PHE:O	44:BI:136:LEU:HD12	2.19	0.42
44:BI:142:GLY:O	46:BI:501:GTP:H5'	2.20	0.42
45:BJ:4:ILE:HD11	45:BJ:50:TYR:CZ	2.53	0.42
44:BK:88:HIS:O	44:BK:89:PRO:HG2	2.19	0.42
45:BL:36:TYR:CZ	45:BL:44:LEU:HG	2.54	0.42
45:BL:100:ASN:HB3	45:BL:103:LYS:HB3	2.01	0.42
45:BL:362:LYS:O	45:BL:363:MET:HG3	2.19	0.42
44:BM:14:ILE:HD13	44:BM:75:ILE:CD1	2.50	0.42
44:BM:437:ILE:HG13	44:BM:437:ILE:O	2.19	0.42
45:BN:23:VAL:O	45:BN:26:ASP:HB2	2.18	0.42
44:CA:360:PRO:HG2	44:CA:374:ALA:HB3	2.01	0.42
44:CA:384:ILE:O	44:CA:384:ILE:HG13	2.19	0.42
44:CC:251:ASP:H	44:CC:254:GLU:CD	2.22	0.42
44:CC:353:VAL:O	44:CC:353:VAL:HG13	2.19	0.42
45:CD:251:ARG:O	45:CD:254:ALA:HB3	2.19	0.42
45:CD:317:PHE:CE2	45:CD:326:VAL:HG22	2.54	0.42
45:CD:342:VAL:HG22	45:CD:343:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:347:ASN:HB3	44:CE:178:SER:OG	2.19	0.42
44:CE:182:VAL:C	44:CE:184:PRO:HD2	2.38	0.42
44:CE:417:GLU:O	44:CE:420:GLU:HG2	2.19	0.42
45:CF:1:MET:C	45:CF:2:ARG:HG2	2.40	0.42
45:CF:202:ILE:HG22	45:CF:203:ASP:N	2.34	0.42
44:CG:182:VAL:CG2	44:CG:185:TYR:HD2	2.31	0.42
44:CG:256:GLN:O	45:CH:397:TRP:HZ2	2.02	0.42
44:CG:258:ASN:ND2	44:CG:352:LYS:CD	2.79	0.42
44:CI:238:LEU:O	44:CI:238:LEU:HD23	2.20	0.42
45:CJ:231:ALA:HB1	45:CJ:270:PHE:CE2	2.54	0.42
45:CJ:316:LEU:HD13	45:CJ:352:SER:HB3	2.01	0.42
44:CK:5:ILE:HG22	44:CK:6:SER:N	2.33	0.42
45:CL:167:PHE:HE1	45:CL:200:MET:CG	2.32	0.42
45:CN:30:ILE:HG13	45:CN:51:TYR:CE2	2.53	0.42
45:CN:182:PRO:HB2	45:CN:388:MET:SD	2.59	0.42
44:DA:196:GLU:OE2	44:DA:264:ARG:HD3	2.19	0.42
45:DB:85:PHE:O	45:DB:87:PRO:HD3	2.19	0.42
45:DB:151:LEU:O	45:DB:154:LYS:HG2	2.19	0.42
45:DB:187:LEU:HD21	45:DB:408:PHE:CD1	2.53	0.42
44:DC:68:LEU:CD2	44:DC:153:LEU:HD11	2.49	0.42
44:DC:124:LYS:HB2	44:DC:124:LYS:HE2	1.85	0.42
44:DC:336:LYS:O	44:DC:336:LYS:HD3	2.18	0.42
44:DC:390:ARG:HG3	44:DC:391:LEU:H	1.85	0.42
45:DD:255:VAL:HA	44:DE:407:TRP:HZ3	1.82	0.42
45:DF:32:PRO:HG3	45:DF:81:PHE:HE1	1.83	0.42
45:DF:310:TYR:HB2	45:DF:341:PHE:CD1	2.54	0.42
44:DG:259:LEU:HD13	44:DG:268:MET:SD	2.59	0.42
44:DG:305:CYS:O	44:DG:307:PRO:HD3	2.18	0.42
45:DH:31:ASP:HB3	45:DH:32:PRO:HD2	2.02	0.42
45:DH:266:PHE:CD1	45:DH:370:ASN:HB2	2.54	0.42
44:DI:288:VAL:O	44:DI:291:ILE:HG12	2.19	0.42
44:DI:298:PRO:O	44:DI:301:MET:HG2	2.19	0.42
45:DJ:69:GLU:O	45:DJ:73:MET:HE2	2.19	0.42
44:DK:346:TRP:HZ3	45:DL:394:PHE:CE1	2.38	0.42
45:DL:24:ILE:O	45:DL:27:GLU:N	2.52	0.42
45:DL:49:VAL:HG12	45:DL:50:TYR:CD1	2.54	0.42
45:DL:296:ALA:HB1	45:DL:305:PRO:CD	2.48	0.42
44:DM:85:GLN:O	44:DM:85:GLN:CG	2.66	0.42
44:DM:204:LEU:HD22	44:DM:231:ILE:CD1	2.49	0.42
45:DN:44:LEU:HD23	45:DN:47:ILE:HD13	1.99	0.42
45:DN:167:PHE:CZ	45:DN:200:MET:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:333:VAL:HA	45:DN:336:LYS:CB	2.46	0.42
44:EA:30:ILE:HG12	44:EA:36:MET:CB	2.48	0.42
44:EA:194:LEU:HB2	44:EA:198:THR:OG1	2.18	0.42
45:EB:253:LEU:CA	45:EB:257:LEU:HD13	2.50	0.42
45:EB:401:GLU:O	45:EB:403:MET:HE3	2.19	0.42
44:EC:32:PRO:HA	44:EC:83:TYR:CE1	2.54	0.42
44:EC:117:LEU:O	44:EC:121:ARG:NH1	2.52	0.42
44:EC:135:PHE:C	44:EC:136:LEU:HD23	2.39	0.42
44:EC:151:SER:HB3	44:EC:193:SER:CB	2.50	0.42
44:EC:291:ILE:HG13	44:EC:292:THR:N	2.35	0.42
45:ED:231:ALA:O	45:ED:234:SER:N	2.51	0.42
45:ED:311:LEU:O	45:ED:348:ASN:HB2	2.19	0.42
45:ED:337:ASN:O	45:ED:340:TYR:HB2	2.20	0.42
45:ED:342:VAL:HG13	45:ED:345:ILE:CG2	2.47	0.42
44:EE:37:PRO:HG3	44:EE:40:LYS:HG3	2.02	0.42
44:EE:72:PRO:O	44:EE:76:ASP:HB2	2.19	0.42
45:EF:131:GLN:C	45:EF:162:ARG:HH12	2.22	0.42
45:EF:260:PHE:HB3	45:EF:261:PRO:HD2	2.00	0.42
44:EG:71:GLU:HA	44:EG:72:PRO:HD3	1.89	0.42
44:EG:156:ARG:HG3	44:EG:156:ARG:NH1	2.33	0.42
45:EH:259:PRO:HA	44:EI:404:PHE:CZ	2.54	0.42
45:EH:337:ASN:HB3	45:EH:340:TYR:HD2	1.84	0.42
45:EJ:36:TYR:CZ	45:EJ:38:GLY:HA3	2.54	0.42
45:EJ:317:PHE:HE2	45:EJ:326:VAL:HG13	1.80	0.42
44:EK:1:MET:H3	44:EK:2:ARG:HH11	1.66	0.42
44:EK:149:LEU:O	44:EK:153:LEU:HG	2.19	0.42
44:EK:209:ILE:CG2	44:EK:227:LEU:HD22	2.49	0.42
44:EK:276:ILE:HG13	44:EK:276:ILE:O	2.18	0.42
44:EK:304:LYS:O	44:EK:304:LYS:CD	2.62	0.42
45:EL:62:ARG:HG2	45:EL:123:GLU:OE1	2.18	0.42
45:EL:127:CYS:SG	45:EL:130:LEU:HD13	2.59	0.42
45:EL:386:THR:HG23	45:EL:387:ALA:N	2.34	0.42
44:EM:22:GLU:HG2	44:EM:83:TYR:HE2	1.80	0.42
44:EM:202:VAL:HG12	44:EM:203:MET:N	2.33	0.42
44:EM:293:ASN:OD1	44:EM:335:ILE:HD11	2.18	0.42
44:EM:387:VAL:O	44:EM:390:ARG:HG2	2.19	0.42
45:EN:310:TYR:HB2	45:EN:341:PHE:CE1	2.54	0.42
45:EN:372:THR:HG21	45:EN:426:GLN:NE2	2.34	0.42
44:FA:340:THR:HG23	44:FA:341:ILE:HG13	2.00	0.42
45:FB:55:THR:HG23	45:GB:283:ALA:CA	2.42	0.42
45:FB:253:LEU:O	45:FB:257:LEU:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FC:79:ARG:HG2	44:FC:92:LEU:HD22	2.01	0.42
45:FD:31:ASP:HB3	45:FD:32:PRO:CD	2.49	0.42
45:FD:170:VAL:HG22	45:FD:171:PRO:HD2	2.01	0.42
44:FE:318:MET:SD	44:FE:354:GLY:HA3	2.59	0.42
45:FF:73:MET:HE1	45:FF:92:PHE:HB3	1.95	0.42
44:FG:11:GLN:HG3	44:FG:74:VAL:CG1	2.35	0.42
44:FG:223:THR:HA	45:FH:323:THR:CB	2.40	0.42
44:FG:288:VAL:CA	44:FG:291:ILE:HG22	2.50	0.42
45:FH:211:CYS:HA	45:FH:215:LEU:HD12	2.01	0.42
44:FI:23:LEU:CD2	44:FI:236:SER:HB2	2.50	0.42
45:FJ:199:CYS:HB3	45:FJ:264:HIS:O	2.19	0.42
45:FJ:266:PHE:HD1	45:FJ:370:ASN:HB2	1.81	0.42
44:FK:21:TRP:HZ2	44:FK:65:ALA:HB2	1.84	0.42
44:FK:149:LEU:O	44:FK:153:LEU:N	2.33	0.42
44:FK:180:ALA:HB3	44:FK:183:GLU:HB3	2.01	0.42
44:FK:348:PRO:HB2	45:FN:384:GLN:HG2	1.99	0.42
45:FL:46:ARG:HG3	45:FL:46:ARG:O	2.19	0.42
44:FM:203:MET:HB3	44:FM:303:ALA:CB	2.49	0.42
44:GA:96:LYS:HB3	45:GB:1:MET:CE	2.49	0.42
44:GA:344:VAL:HG22	44:GA:345:ASP:OD1	2.20	0.42
44:GA:431:ASP:O	44:GA:435:VAL:HG23	2.18	0.42
45:GB:11:GLN:HA	45:GB:14:ASN:HD22	1.84	0.42
45:GB:58:ARG:HH21	45:GB:86:ARG:HH22	1.65	0.42
44:GC:191:THR:HA	44:GC:194:LEU:HG	2.01	0.42
44:GC:292:THR:HG21	44:GC:331:SER:CB	2.45	0.42
45:GF:19:LYS:CB	45:GF:226:ASN:HB3	2.49	0.42
45:GF:149:THR:HG23	45:GF:191:GLN:OE1	2.19	0.42
45:GF:294:PHE:CD1	45:GF:333:VAL:HG21	2.54	0.42
44:GG:70:LEU:HD11	44:GG:149:LEU:CD2	2.49	0.42
45:GH:94:GLN:N	45:GH:94:GLN:OE1	2.53	0.42
45:GH:333:VAL:O	45:GH:333:VAL:HG12	2.19	0.42
44:GI:90:GLU:O	44:GI:90:GLU:HG3	2.19	0.42
44:GI:100:ALA:O	45:GJ:255:VAL:HG21	2.20	0.42
44:GI:318:MET:HE3	44:GI:352:LYS:CD	2.50	0.42
45:GJ:36:TYR:CE1	45:GJ:44:LEU:HD21	2.54	0.42
45:GJ:178:THR:HG22	45:GJ:180:VAL:N	2.31	0.42
45:GJ:286:VAL:HG23	45:GJ:287:PRO:CD	2.49	0.42
44:GK:286:LEU:HD12	44:GK:291:ILE:HG22	2.01	0.42
45:GL:350:LYS:HG2	45:GL:351:SER:N	2.34	0.42
44:GM:259:LEU:HD23	44:GM:314:ALA:CB	2.50	0.42
45:GN:113:ILE:CD1	45:GN:150:LEU:HD22	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:317:PHE:O	45:GN:318:ARG:HG2	2.19	0.42
44:HA:66:VAL:O	44:HA:67:PHE:HD1	2.02	0.42
45:HB:2:ARG:C	45:HB:131:GLN:HB2	2.40	0.42
45:HB:8:GLN:OE1	45:HB:17:GLY:HA3	2.18	0.42
45:HB:286:VAL:CB	45:HB:287:PRO:HD3	2.36	0.42
44:HC:323:VAL:HG13	44:HC:323:VAL:O	2.18	0.42
44:HC:402:ARG:HA	44:HC:405:VAL:HG21	2.01	0.42
45:HD:24:ILE:HD12	45:HD:24:ILE:H	1.83	0.42
45:HD:262:ARG:NH1	45:HD:422:TYR:HD1	2.18	0.42
45:HD:269:GLY:HA2	45:HD:300:MET:CE	2.49	0.42
44:HE:74:VAL:HG23	44:HE:75:ILE:N	2.34	0.42
44:HE:229:ARG:HG2	44:HE:229:ARG:HH11	1.82	0.42
45:HF:182:PRO:HG2	45:HF:388:MET:HE2	2.00	0.42
45:HF:211:CYS:SG	45:HF:217:LEU:HD21	2.59	0.42
44:HG:288:VAL:HG11	44:HG:327:ASP:CB	2.46	0.42
45:HH:286:VAL:HG22	45:HH:287:PRO:HD3	1.98	0.42
45:HJ:113:ILE:HD12	45:HJ:150:LEU:CD2	2.49	0.42
45:HJ:180:VAL:O	45:HJ:180:VAL:HG22	2.19	0.42
45:HJ:242:PHE:CE2	45:HJ:356:ILE:HG21	2.54	0.42
45:HJ:303:ALA:H	45:HJ:377:MET:HE3	1.84	0.42
44:HK:434:GLU:O	45:HN:391:ARG:NH2	2.50	0.42
45:HL:36:TYR:CZ	45:HL:38:GLY:HA3	2.54	0.42
45:HL:258:ILE:HG13	45:HL:266:PHE:CZ	2.55	0.42
45:HL:262:ARG:C	45:HL:263:LEU:HD12	2.40	0.42
45:HL:391:ARG:HG3	45:HL:391:ARG:NH1	2.33	0.42
45:HN:58:ARG:NH1	45:IN:280:GLN:OE1	2.52	0.42
45:HN:293:MET:CG	45:HN:367:PHE:HB2	2.49	0.42
44:IA:72:PRO:O	44:IA:76:ASP:N	2.51	0.42
44:IA:105:ARG:HG2	44:IA:411:GLU:OE1	2.20	0.42
45:IB:183:TYR:O	45:IB:187:LEU:N	2.28	0.42
45:ID:47:ILE:HD13	45:ID:59:TYR:CE2	2.54	0.42
45:ID:203:ASP:OD2	45:ID:301:CYS:HA	2.20	0.42
44:IE:143:GLY:HA2	46:IE:501:GTP:H5'	2.00	0.42
45:IF:334:GLN:HB2	45:IF:349:ILE:HD13	2.01	0.42
45:IH:167:PHE:CZ	45:IH:200:MET:HE3	2.53	0.42
45:IH:317:PHE:HE1	45:IH:326:VAL:HG22	1.83	0.42
44:II:425:LEU:O	44:II:429:GLU:HG3	2.19	0.42
45:IJ:72:THR:HG23	45:IJ:73:MET:N	2.34	0.42
45:IJ:186:THR:HG23	45:IJ:187:LEU:N	2.35	0.42
44:IK:88:HIS:CD2	45:JL:281:TYR:HB3	2.54	0.42
44:IK:174:SER:HB2	44:IK:177:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:248:LEU:HD23	44:IM:353:VAL:O	2.18	0.42
44:JA:96:LYS:HA	44:JA:96:LYS:HD2	1.66	0.42
44:JC:30:ILE:HG12	44:JC:61:HIS:CE1	2.54	0.42
44:JC:103:PHE:CD2	44:JC:189:LEU:HD13	2.54	0.42
44:JC:231:ILE:O	44:JC:235:ILE:HG12	2.18	0.42
44:JC:313:MET:HE2	44:JC:346:TRP:CZ2	2.50	0.42
45:JD:280:GLN:HG3	45:JD:280:GLN:O	2.19	0.42
45:JF:315:ALA:H	45:JF:350:LYS:HE3	1.83	0.42
45:JF:410:GLU:O	45:JF:413:SER:HB2	2.19	0.42
44:JG:72:PRO:HD3	45:JH:2:ARG:HH22	1.83	0.42
45:JH:132:GLY:HA2	45:JH:163:ILE:O	2.19	0.42
45:JH:166:THR:OG1	45:JH:199:CYS:SG	2.72	0.42
45:JH:202:ILE:HD11	45:JH:268:ILE:CG1	2.50	0.42
44:JI:350:GLY:CA	45:JL:179:VAL:HG12	2.50	0.42
44:JK:177:VAL:HG13	45:JL:327:ASP:HB3	2.01	0.42
44:JK:399:TYR:CZ	44:JK:402:ARG:NH2	2.87	0.42
44:JK:404:PHE:HE2	45:JL:345:ILE:HD12	1.84	0.42
44:JM:55:GLU:HG3	44:JM:57:GLY:H	1.83	0.42
44:JM:269:LEU:HD23	44:JM:379:SER:O	2.19	0.42
44:JM:304:LYS:HD2	44:JM:304:LYS:HA	1.83	0.42
44:JM:328:VAL:O	44:JM:332:ILE:HG12	2.19	0.42
44:KA:72:PRO:HG2	45:KB:1:MET:HE1	2.01	0.42
45:KB:20:PHE:CE1	45:KB:233:MET:HB3	2.54	0.42
45:KB:31:ASP:OD2	45:KB:33:THR:OG1	2.36	0.42
45:KB:314:SER:CB	45:KB:350:LYS:HE3	2.48	0.42
45:KB:321:MET:SD	45:KB:363:MET:HB3	2.59	0.42
44:KC:403:ALA:CB	45:KD:344:TRP:HZ3	2.33	0.42
45:KD:116:VAL:HG13	45:KD:117:LEU:N	2.35	0.42
45:KD:192:LEU:O	45:KD:196:ALA:HB3	2.19	0.42
45:KD:242:PHE:HD2	45:KD:356:ILE:HB	1.83	0.42
45:KD:311:LEU:HD23	45:KD:342:VAL:HG11	2.01	0.42
45:KD:418:LEU:O	45:KD:421:GLU:HG2	2.20	0.42
44:KE:7:ILE:HD11	44:KE:153:LEU:CD1	2.49	0.42
44:KE:223:THR:HG22	44:KE:226:ASN:OD1	2.18	0.42
44:KE:332:ILE:HD12	44:KE:351:PHE:CE2	2.54	0.42
44:KE:426:ALA:O	44:KE:430:LYS:N	2.49	0.42
44:KG:250:VAL:HG13	44:KG:255:PHE:HE1	1.84	0.42
45:KH:274:THR:HG21	45:KH:282:ARG:CD	2.49	0.42
44:KI:22:GLU:HG3	44:KI:83:TYR:OH	2.19	0.42
44:KI:145:THR:HG23	44:KI:146:GLY:N	2.35	0.42
44:KI:250:VAL:HG21	44:KI:318:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:260:VAL:O	44:KI:260:VAL:CG1	2.68	0.42
44:KI:406:HIS:CG	45:KJ:261:PRO:HG3	2.54	0.42
45:KJ:237:THR:HG22	45:KJ:250:LEU:HD21	2.00	0.42
45:KJ:257:LEU:HD13	45:KJ:266:PHE:CE2	2.55	0.42
45:KJ:331:LEU:HD12	45:KJ:331:LEU:HA	1.79	0.42
44:KM:22:GLU:HG3	44:KM:83:TYR:OH	2.18	0.42
44:KM:66:VAL:C	44:KM:67:PHE:HD1	2.22	0.42
44:KM:134:GLY:HA2	44:KM:164:LYS:HE3	2.00	0.42
44:KM:210:TYR:HE1	44:KM:227:LEU:HD11	1.83	0.42
45:KN:411:ALA:O	45:KN:415:MET:CB	2.67	0.42
44:LA:2:ARG:O	44:LA:51:THR:HA	2.19	0.42
44:LA:390:ARG:HB3	44:LA:390:ARG:CZ	2.50	0.42
44:LC:184:PRO:HG2	44:LC:398:MET:CE	2.48	0.42
44:LC:221:ARG:NH1	45:LD:322:SER:OG	2.52	0.42
45:LD:124:ALA:HB1	45:LD:130:LEU:HD22	2.02	0.42
45:LD:418:LEU:HD23	45:LD:418:LEU:O	2.18	0.42
44:LE:119:LEU:HD23	44:LE:119:LEU:HA	1.84	0.42
44:LE:137:VAL:CG2	44:LE:168:GLY:HA2	2.49	0.42
44:LE:169:PHE:CE2	44:LE:235:ILE:HD11	2.54	0.42
45:LF:73:MET:CA	45:LF:76:VAL:HG12	2.48	0.42
45:LF:309:ARG:HH11	45:LF:309:ARG:HG2	1.84	0.42
44:LI:319:TYR:CE2	44:LI:328:VAL:HG22	2.54	0.42
44:LI:320:ARG:NE	44:LI:360:PRO:HD3	2.34	0.42
45:LL:47:ILE:HG13	45:LL:47:ILE:O	2.19	0.42
45:LL:61:PRO:HG3	45:LL:85:PHE:HD1	1.84	0.42
45:LL:135:ILE:HG13	45:LL:152:ILE:HD12	2.02	0.42
45:LL:161:ASP:OD2	45:LL:162:ARG:NH1	2.53	0.42
44:LM:54:SER:HB3	44:LM:64:ARG:NH1	2.32	0.42
44:LM:88:HIS:ND1	44:LM:90:GLU:HG2	2.32	0.42
44:LM:210:TYR:HE1	44:LM:227:LEU:HD13	1.84	0.42
45:LN:131:GLN:O	45:LN:163:ILE:HG22	2.19	0.42
45:LN:150:LEU:O	45:LN:150:LEU:HD23	2.20	0.42
45:LN:235:GLY:HA2	45:LN:318:ARG:HH21	1.79	0.42
44:MA:256:GLN:O	44:MA:260:VAL:HG22	2.19	0.42
45:MB:62:ARG:HG3	45:MB:123:GLU:CD	2.38	0.42
45:MB:207:LEU:CB	45:MB:225:LEU:HD21	2.48	0.42
44:MC:19:ALA:HA	44:MC:22:GLU:OE1	2.19	0.42
44:MC:103:PHE:HD1	44:MC:147:SER:OG	2.02	0.42
45:MD:103:LYS:HD3	45:MD:401:GLU:OE2	2.20	0.42
44:ME:276:ILE:CG2	44:ME:281:ALA:HB1	2.36	0.42
45:MF:287:PRO:O	45:MF:290:THR:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:230:LEU:CD1	44:MG:368:LEU:HD21	2.48	0.42
45:MH:47:ILE:HG22	45:MH:51:TYR:HB2	2.01	0.42
45:MH:91:VAL:O	45:MH:91:VAL:HG23	2.19	0.42
45:MH:256:ASN:O	45:MH:257:LEU:HD12	2.18	0.42
45:MJ:178:THR:HG22	45:MJ:180:VAL:HG12	2.01	0.42
45:MJ:330:MET:HA	45:MJ:330:MET:HE2	2.01	0.42
45:ML:174:LYS:HD2	45:ML:175:VAL:N	2.34	0.42
44:MM:99:ALA:HB3	44:MM:145:THR:CG2	2.48	0.42
44:MM:214:ARG:HH22	44:MM:215:ARG:HA	1.82	0.42
44:MM:267:PHE:CD2	44:MM:388:PHE:HZ	2.37	0.42
44:MM:317:MET:HA	44:MM:376:CYS:O	2.19	0.42
44:NA:101:ASN:C	44:NA:144:GLY:HA3	2.39	0.42
44:NA:223:THR:HG1	45:NB:322:SER:HB2	1.84	0.42
44:NA:265:ILE:HG23	44:NA:432:TYR:CE1	2.54	0.42
45:NB:87:PRO:HD2	45:OB:281:TYR:HD2	1.85	0.42
45:NB:100:ASN:HB3	45:NB:103:LYS:HB2	2.00	0.42
44:NC:103:PHE:CE2	44:NC:189:LEU:HD22	2.53	0.42
45:ND:114:ASP:OD1	45:ND:117:LEU:HD12	2.19	0.42
45:ND:167:PHE:CE2	45:ND:233:MET:HB2	2.54	0.42
45:ND:386:THR:HB	45:ND:412:GLU:OE2	2.20	0.42
45:NF:11:GLN:OE1	45:NF:72:THR:HG22	2.20	0.42
45:NF:246:LEU:O	45:NF:246:LEU:HD23	2.18	0.42
45:NH:7:ILE:CB	45:NH:135:ILE:HD12	2.43	0.42
45:NH:116:VAL:HA	45:NH:119:VAL:CG1	2.46	0.42
45:NH:171:PRO:O	45:NH:380:ARG:NH1	2.41	0.42
45:NH:350:LYS:HG2	45:NH:351:SER:N	2.34	0.42
44:NI:395:PHE:HE2	44:NI:422:ARG:HD3	1.78	0.42
45:NJ:119:VAL:HG23	45:NJ:120:VAL:N	2.34	0.42
45:NJ:136:THR:HG21	45:NJ:233:MET:HE2	2.00	0.42
44:NK:188:ILE:HG21	44:NK:395:PHE:CE2	2.54	0.42
44:NM:71:GLU:OE1	45:NN:247:ASN:ND2	2.53	0.42
45:NN:51:TYR:HB3	45:NN:59:TYR:HB3	2.01	0.42
45:NN:309:ARG:O	45:NN:372:THR:HG23	2.20	0.42
45:OB:174:LYS:HB3	45:OB:205:GLU:HG3	2.01	0.42
45:OB:178:THR:HG22	45:OB:180:VAL:H	1.85	0.42
44:OC:348:PRO:HB2	45:OF:384:GLN:NE2	2.30	0.42
45:OD:23:VAL:HG21	45:OD:230:SER:HB3	2.01	0.42
45:OD:101:TRP:HB3	45:OD:398:TYR:HE2	1.84	0.42
45:OD:167:PHE:CD2	45:OD:233:MET:CE	3.02	0.42
44:OE:138:PHE:CE1	44:OE:169:PHE:HD2	2.37	0.42
45:OF:48:ASN:O	45:OF:62:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:173:PRO:HD3	45:OF:380:ARG:HD3	2.02	0.42
45:OF:218:THR:OG1	45:OF:219:THR:N	2.52	0.42
45:OF:304:ASP:OD1	45:OF:306:ARG:NE	2.52	0.42
44:OG:18:ASN:O	44:OG:22:GLU:HG3	2.19	0.42
44:OG:28:HIS:CE1	44:OG:49:PHE:HB3	2.53	0.42
44:OG:195:LEU:O	44:OG:195:LEU:HD23	2.19	0.42
44:OG:336:LYS:HE2	44:OG:343:PHE:CE2	2.54	0.42
44:OI:247:ALA:O	44:OI:248:LEU:HD12	2.19	0.42
44:OI:318:MET:SD	44:OI:354:GLY:HA3	2.59	0.42
45:OJ:113:ILE:HA	45:OJ:116:VAL:HG12	2.01	0.42
45:OJ:238:CYS:SG	45:OJ:239:CYS:N	2.92	0.42
44:OK:79:ARG:HD3	44:OK:92:LEU:CD1	2.47	0.42
44:OK:196:GLU:O	44:OK:196:GLU:CD	2.57	0.42
45:OL:12:CYS:SG	45:OL:169:VAL:HG21	2.59	0.42
45:OL:267:MET:HE3	45:OL:299:MET:CE	2.49	0.42
45:OL:309:ARG:HA	45:OL:340:TYR:O	2.19	0.42
44:OM:242:LEU:HD11	44:OM:252:ILE:CG2	2.32	0.42
44:OM:326:LYS:HA	44:OM:329:ASN:OD1	2.17	0.42
44:OM:425:LEU:O	44:OM:429:GLU:OE1	2.37	0.42
45:ON:334:GLN:HE22	45:ON:347:ASN:H	1.67	0.42
45:ON:392:LYS:HA	45:ON:395:LEU:HD12	2.01	0.42
44:PA:312:TYR:HB2	44:PA:343:PHE:CG	2.55	0.42
45:PB:10:GLY:O	45:PB:14:ASN:ND2	2.51	0.42
45:PB:345:ILE:O	45:PB:345:ILE:HG23	2.19	0.42
44:PE:145:THR:HG23	44:PE:146:GLY:N	2.34	0.42
44:PE:171:ILE:HG23	44:PE:204:LEU:O	2.20	0.42
44:PE:230:LEU:CD1	44:PE:275:ILE:HD13	2.49	0.42
44:PE:326:LYS:HD2	44:PE:327:ASP:N	2.34	0.42
45:PF:6:HIS:O	45:PF:64:ILE:HD12	2.19	0.42
45:PF:16:ILE:HD13	45:PF:226:ASN:OD1	2.19	0.42
45:PF:344:TRP:CZ3	45:PF:345:ILE:HB	2.54	0.42
45:PH:42:LEU:HA	45:PH:45:GLU:OE2	2.19	0.42
45:PH:135:ILE:HG13	45:PH:164:MET:CE	2.49	0.42
45:PH:184:ASN:OD1	45:PH:185:ALA:N	2.52	0.42
44:PI:54:SER:HB3	44:PI:64:ARG:CZ	2.48	0.42
44:PI:137:VAL:HG13	44:PI:168:GLY:HA2	2.01	0.42
44:PI:182:VAL:C	44:PI:184:PRO:HD2	2.40	0.42
44:PI:209:ILE:H	44:PI:209:ILE:HG13	1.67	0.42
44:PK:268:MET:HB3	44:PK:380:ASN:CB	2.41	0.42
45:PL:143:THR:HG22	48:PL:501:GDP:O2B	2.18	0.42
45:PL:258:ILE:HD12	45:PL:264:HIS:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:48:ALA:HB2	44:PM:243:ARG:O	2.19	0.42
44:PM:71:GLU:HG3	45:PN:247:ASN:ND2	2.34	0.42
44:PM:319:TYR:N	44:PM:354:GLY:O	2.53	0.42
45:PN:19:LYS:HE2	45:PN:19:LYS:HA	2.02	0.42
45:PN:133:PHE:O	45:PN:165:GLU:HB2	2.18	0.42
45:PN:314:SER:CB	45:PN:350:LYS:HB3	2.49	0.42
44:QA:52:PHE:CE2	44:QA:239:THR:HB	2.54	0.42
44:QA:68:LEU:HD11	44:QA:93:ILE:HD13	1.98	0.42
45:QB:246:LEU:HD21	46:QC:501:GTP:C8	2.41	0.42
45:QB:271:ALA:O	45:QB:365:VAL:N	2.43	0.42
44:QC:353:VAL:HG11	45:QD:177:ASP:CG	2.39	0.42
44:QE:270:SER:O	44:QE:302:MET:HB2	2.19	0.42
45:QF:6:HIS:NE2	45:QF:8:GLN:OE1	2.52	0.42
44:QG:118:CYS:O	44:QG:122:ILE:HG12	2.19	0.42
45:QH:163:ILE:HG23	45:QH:251:ARG:NH1	2.33	0.42
44:QI:141:VAL:CG2	44:QI:187:SER:HA	2.32	0.42
44:QI:202:VAL:HA	44:QI:268:MET:O	2.19	0.42
45:QJ:224:ASP:O	45:QJ:227:HIS:HB3	2.18	0.42
44:QK:246:GLY:HA3	44:QK:355:ILE:O	2.19	0.42
44:QK:275:ILE:HD12	44:QK:275:ILE:N	2.34	0.42
44:QK:313:MET:HB3	44:QK:380:ASN:O	2.19	0.42
45:QL:137:HIS:O	45:QL:168:SER:HA	2.19	0.42
44:QM:70:LEU:HB2	44:QM:98:ASP:HA	2.01	0.42
44:QM:247:ALA:HB2	44:QM:357:TYR:OH	2.19	0.42
44:QM:256:GLN:NE2	44:QM:260:VAL:HB	2.34	0.42
44:QM:312:TYR:HB2	44:QM:343:PHE:HD1	1.84	0.42
44:RA:306:ASP:HB3	44:RA:309:HIS:CG	2.55	0.42
44:RC:390:ARG:O	44:RC:393:HIS:HB3	2.19	0.42
45:RD:203:ASP:O	45:RD:207:LEU:HG	2.20	0.42
44:RE:60:LYS:NZ	44:RE:86:LEU:HA	2.34	0.42
45:RF:4:ILE:CG2	45:RF:131:GLN:HG3	2.50	0.42
45:RF:95:THR:HG23	45:RF:96:GLY:N	2.35	0.42
45:RF:118:ASP:C	45:RF:122:LYS:HZ2	2.23	0.42
44:RG:7:ILE:HD13	44:RG:66:VAL:HB	2.01	0.42
44:RG:203:MET:HG3	44:RG:384:ILE:HD11	2.00	0.42
45:RH:124:ALA:HB1	45:RH:130:LEU:HD21	1.98	0.42
45:RH:146:GLY:O	45:RH:149:THR:N	2.52	0.42
45:RH:178:THR:CB	45:RH:181:GLU:HG3	2.26	0.42
45:RH:183:TYR:OH	45:RH:388:MET:HG2	2.19	0.42
45:RH:342:VAL:CG2	45:RH:345:ILE:HG22	2.49	0.42
44:RI:406:HIS:CE1	44:RI:407:TRP:CD1	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:406:MET:O	45:RJ:410:GLU:N	2.42	0.42
44:RK:148:GLY:O	44:RK:151:SER:N	2.53	0.42
44:RK:211:ASP:HB3	44:RK:215:ARG:HH12	1.84	0.42
45:RL:310:TYR:HD1	45:RL:371:SER:CB	2.33	0.42
44:RM:119:LEU:O	44:RM:123:ARG:HB2	2.19	0.42
44:RM:185:TYR:OH	44:RM:399:TYR:N	2.52	0.42
44:RM:210:TYR:CE1	44:RM:227:LEU:HD11	2.52	0.42
45:RN:69:GLU:HA	45:RN:93:GLY:O	2.20	0.42
44:SA:71:GLU:CD	44:SA:73:THR:H	2.23	0.42
44:SA:271:SER:HA	44:SA:302:MET:HE2	2.01	0.42
45:SB:238:CYS:O	45:SB:318:ARG:NH2	2.52	0.42
45:SB:271:ALA:HB1	45:SB:292:GLN:NE2	2.34	0.42
44:SC:22:GLU:OE2	44:SC:83:TYR:HE2	2.02	0.42
44:SC:409:VAL:HA	44:SC:413:MET:O	2.19	0.42
44:SC:419:SER:O	44:SC:423:GLU:HG3	2.18	0.42
45:SD:276:ARG:HD3	45:SD:276:ARG:HA	1.80	0.42
45:SF:284:LEU:HD22	45:SF:363:MET:CE	2.48	0.42
44:SG:241:SER:OG	44:SG:250:VAL:O	2.23	0.42
44:SG:298:PRO:O	44:SG:301:MET:HE1	2.20	0.42
45:SH:407:GLU:HG3	45:SH:408:PHE:N	2.33	0.42
44:SI:54:SER:HB3	44:SI:64:ARG:NH2	2.34	0.42
44:SI:288:VAL:CA	44:SI:291:ILE:HG12	2.44	0.42
45:SJ:4:ILE:O	45:SJ:62:ARG:HD2	2.18	0.42
45:SJ:317:PHE:CE1	45:SJ:326:VAL:HG13	2.53	0.42
45:SJ:382:ALA:HB2	45:SJ:415:MET:CE	2.49	0.42
45:SL:62:ARG:HG3	45:SL:62:ARG:O	2.19	0.42
45:SL:290:THR:HG23	45:SL:291:GLN:N	2.34	0.42
44:SM:226:ASN:OD1	44:SM:226:ASN:N	2.52	0.42
44:SM:285:GLN:HG3	44:SM:286:LEU:N	2.34	0.42
45:SN:46:ARG:HB3	45:SN:241:ARG:O	2.18	0.42
44:TA:89:PRO:HG3	44:UA:280:LYS:HG3	2.02	0.42
45:TB:183:TYR:CE1	45:TB:388:MET:HB3	2.54	0.42
44:TC:90:GLU:HG3	44:TC:121:ARG:NH2	2.33	0.42
45:TD:389:PHE:HZ	45:TD:405:GLU:CB	2.31	0.42
44:TE:11:GLN:HA	44:TE:14:ILE:HB	2.01	0.42
44:TE:83:TYR:HB3	44:TE:86:LEU:CD2	2.47	0.42
44:TE:319:TYR:CA	44:TE:375:VAL:HG23	2.49	0.42
45:TF:55:THR:HG21	45:UF:284:LEU:CG	2.49	0.42
45:TF:110:ALA:O	45:TF:113:ILE:HG22	2.19	0.42
45:TF:356:ILE:O	45:TF:356:ILE:HG23	2.19	0.42
44:TG:166:LYS:O	44:TG:199:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:243:ARG:O	44:TG:244:PHE:CG	2.72	0.42
45:TH:3:GLU:CG	45:TH:127:CYS:HB2	2.49	0.42
45:TH:84:LEU:HD12	45:TH:84:LEU:N	2.34	0.42
44:TI:62:VAL:HG21	44:UI:283:HIS:HA	2.00	0.42
45:TJ:383:GLU:O	45:TJ:386:THR:HG22	2.19	0.42
44:TK:4:VAL:HG12	44:TK:5:ILE:N	2.33	0.42
44:TK:200:VAL:HG13	44:TK:268:MET:SD	2.59	0.42
44:TK:414:GLU:HB2	44:TK:417:GLU:HG2	2.02	0.42
45:TL:40:SER:HG	45:TL:43:GLN:NE2	2.18	0.42
45:TL:55:THR:CG2	45:UL:284:LEU:H	2.30	0.42
45:TL:174:LYS:HE3	45:TL:205:GLU:CG	2.43	0.42
44:TM:183:GLU:N	44:TM:184:PRO:CD	2.82	0.42
45:TN:60:VAL:HG21	45:TN:86:ARG:HE	1.81	0.42
45:TN:150:LEU:HD21	45:TN:154:LYS:HE2	2.01	0.42
44:UA:203:MET:CB	44:UA:303:ALA:HB2	2.49	0.42
45:UB:318:ARG:CA	45:UB:354:CYS:HB3	2.42	0.42
44:UC:304:LYS:O	44:UC:304:LYS:HG3	2.20	0.42
45:UD:296:ALA:HB3	45:UD:306:ARG:NH2	2.34	0.42
44:UE:171:ILE:HG12	44:UE:204:LEU:HB3	2.00	0.42
44:UE:311:LYS:HE2	44:UE:342:GLN:CD	2.39	0.42
45:UF:246:LEU:HD13	44:UG:224:TYR:HE2	1.84	0.42
45:UF:249:ASP:OD1	45:UF:252:LYS:HB2	2.19	0.42
45:UF:376:GLU:HA	45:UF:379:LYS:HD3	2.01	0.42
45:UF:380:ARG:O	45:UF:383:GLU:HB3	2.19	0.42
45:UF:391:ARG:HA	45:UF:391:ARG:HD2	1.74	0.42
44:UG:230:LEU:HA	44:UG:233:GLN:OE1	2.19	0.42
45:UH:5:VAL:HG12	45:UH:62:ARG:CG	2.49	0.42
45:UH:170:VAL:HG22	45:UH:201:VAL:CG2	2.48	0.42
45:UH:325:GLU:HB2	45:UH:328:GLU:CD	2.40	0.42
44:UI:67:PHE:C	44:UI:68:LEU:HD12	2.40	0.42
45:UJ:110:ALA:HA	45:UJ:113:ILE:CG2	2.49	0.42
45:UJ:379:LYS:HZ1	45:UJ:419:VAL:HG13	1.82	0.42
44:UK:240:ALA:HB1	44:UK:244:PHE:CD2	2.55	0.42
45:UL:24:ILE:C	45:UL:27:GLU:H	2.23	0.42
44:UM:362:VAL:HB	44:UM:370:LYS:HB3	2.01	0.42
45:UN:24:ILE:HG23	45:UN:28:HIS:ND1	2.33	0.42
45:UN:183:TYR:OH	45:UN:388:MET:O	2.35	0.42
44:VA:2:ARG:HD2	44:VA:242:LEU:O	2.20	0.42
44:VA:17:GLY:HA2	44:VA:20:CYS:SG	2.59	0.42
44:VA:153:LEU:O	44:VA:157:LEU:N	2.30	0.42
44:VA:186:ASN:OD1	44:VA:187:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:189:LEU:HD11	44:VA:418:PHE:CE1	2.54	0.42
45:VB:215:LEU:HD13	45:VB:217:LEU:CD2	2.38	0.42
44:VC:118:CYS:CA	44:VC:121:ARG:HB3	2.46	0.42
44:VC:312:TYR:HE2	44:VC:379:SER:HB2	1.85	0.42
45:VD:20:PHE:CZ	45:VD:24:ILE:HD11	2.54	0.42
45:VD:174:LYS:CD	45:VD:175:VAL:HG13	2.47	0.42
45:VD:251:ARG:O	45:VD:255:VAL:HG23	2.19	0.42
44:VE:249:ASN:OD1	44:VE:250:VAL:N	2.53	0.42
44:VE:384:ILE:HD11	44:VE:432:TYR:OH	2.18	0.42
45:VF:17:GLY:O	45:VF:21:TRP:N	2.48	0.42
45:VF:91:VAL:O	45:VF:91:VAL:HG23	2.19	0.42
45:VF:184:ASN:O	45:VF:188:SER:HB3	2.19	0.42
45:VH:7:ILE:HD13	45:VH:151:LEU:HD21	2.01	0.42
45:VH:285:THR:N	45:VH:288:GLU:HB2	2.31	0.42
44:VI:234:VAL:HG22	44:VI:272:TYR:HD1	1.84	0.42
44:VI:248:LEU:HB3	44:VI:355:ILE:CD1	2.48	0.42
44:VI:314:ALA:O	44:VI:379:SER:HA	2.19	0.42
45:VJ:19:LYS:HG3	45:VJ:23:VAL:HG23	2.01	0.42
45:VJ:100:ASN:HB3	45:VJ:103:LYS:HB3	2.01	0.42
45:VJ:170:VAL:HG22	45:VJ:203:ASP:OD1	2.20	0.42
45:VJ:265:PHE:HD2	45:VJ:378:PHE:HE2	1.67	0.42
44:VK:30:ILE:CG1	44:VK:36:MET:SD	3.08	0.42
44:VK:115:VAL:O	44:VK:119:LEU:HD23	2.19	0.42
45:VL:42:LEU:HA	45:VL:45:GLU:CD	2.39	0.42
45:VL:256:ASN:HD22	45:VL:350:LYS:HZ2	1.67	0.42
45:VL:286:VAL:N	45:VL:287:PRO:CD	2.82	0.42
44:VM:51:THR:HG22	44:VM:52:PHE:CE1	2.54	0.42
44:WA:226:ASN:HA	44:WA:229:ARG:NH1	2.34	0.42
45:WF:2:ARG:O	45:WF:240:LEU:HD21	2.20	0.42
45:WH:26:ASP:C	45:WH:29:GLY:H	2.22	0.42
45:WH:267:MET:HG3	45:WH:299:MET:HE3	2.00	0.42
45:WH:271:ALA:HB2	45:WH:298:ASN:OD1	2.20	0.42
45:WH:313:ALA:HB1	45:WH:368:VAL:O	2.19	0.42
44:WI:82:THR:HG23	44:WI:83:TYR:CG	2.54	0.42
45:WJ:245:GLN:O	45:WJ:246:LEU:HD12	2.20	0.42
45:WL:315:ALA:O	45:WL:351:SER:HA	2.19	0.42
45:WL:417:ASP:O	45:WL:420:SER:OG	2.22	0.42
44:WM:91:GLN:C	44:WM:93:ILE:HD12	2.40	0.42
44:WM:176:GLN:O	45:WN:347:ASN:ND2	2.48	0.42
3:0B:203:THR:HB	44:JI:57:GLY:HA2	2.00	0.42
5:0D:57:THR:H	44:EC:219:ILE:CD1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0D:224:ARG:NH2	35:7R:493:GLY:HA3	2.33	0.42
10:0N:162:CYS:H	45:KN:276:ARG:NE	2.01	0.42
4:1C:37:ILE:HD11	44:DM:79:ARG:HB3	2.00	0.42
4:1C:48:ARG:HH12	45:EL:283:ALA:CB	2.29	0.42
4:1C:80:ARG:HG3	45:EL:357:PRO:HG2	2.01	0.42
22:1L:410:LYS:HZ2	45:BH:53:GLU:HG2	1.84	0.42
22:1L:782:LYS:HG2	45:BD:320:ARG:HE	1.85	0.42
24:1O:149:TYR:CD1	44:UE:372:MET:HE1	2.54	0.42
17:2B:237:LYS:CD	44:JK:84:ARG:HH12	2.32	0.42
32:2I:28:ILE:HD11	44:FG:117:LEU:HD23	2.00	0.42
22:2L:656:ASN:ND2	44:BM:76:ASP:OD1	2.52	0.42
22:2L:781:MET:O	45:BL:320:ARG:NH1	2.44	0.42
24:2O:148:MET:HE3	44:VK:371:VAL:HA	2.01	0.42
26:2R:29:LYS:HE2	44:MG:45:GLY:HA3	2.00	0.42
15:2V:72:GLY:O	45:MF:340:TYR:OH	2.36	0.42
16:2X:42:LYS:NZ	44:LI:55:GLU:OE2	2.51	0.42
2:3A:125:LEU:CB	45:AN:276:ARG:HH12	2.32	0.42
31:3H:187:LEU:HD21	45:AH:276:ARG:NH2	2.32	0.42
28:4C:67:LYS:HE3	44:LM:77:GLU:OE2	2.19	0.42
35:4R:85:TRP:CE2	44:AE:372:MET:CE	3.02	0.42
37:5D:79:LEU:HB3	45:NN:355:ASP:OD2	2.19	0.42
37:5D:107:TYR:N	44:NM:279:GLU:CG	2.82	0.42
38:5F:66:THR:HG22	45:NF:35:THR:OG1	2.19	0.42
38:5G:113:LEU:HD21	44:NI:84:ARG:CD	2.50	0.42
39:5I:66:SER:N	39:5I:69:LYS:HD3	2.33	0.42
39:5J:103:GLN:OE1	45:JJ:390:ARG:HD3	2.20	0.42
39:5K:42:ASN:HB3	39:5K:43:PRO:CD	2.47	0.42
11:5Q:74:PRO:O	11:5Q:136:LEU:HD23	2.20	0.42
35:5R:422:TYR:HB2	35:5R:448:CYS:SG	2.59	0.42
36:5S:67:LYS:HD3	36:5S:67:LYS:O	2.20	0.42
36:5S:128:LEU:HD23	36:5S:128:LEU:HA	1.80	0.42
41:6G:95:VAL:HG13	41:6G:96:GLN:H	1.84	0.42
41:6G:126:GLU:HA	41:6G:129:PHE:HE2	1.84	0.42
11:6Q:13:ILE:HG22	11:6Q:25:TRP:CZ2	2.54	0.42
35:6R:429:LYS:HE2	35:6R:429:LYS:HB3	1.86	0.42
35:7R:92:VAL:HG22	44:AA:41:THR:O	2.20	0.42
35:7R:330:SER:CB	35:7R:331:PRO:HD2	2.45	0.42
35:7R:350:PHE:CA	35:7R:371:ILE:H	2.31	0.42
35:7R:478:ASN:ND2	35:7R:480:ILE:HB	2.34	0.42
42:8L:334:UNK:O	42:8L:337:UNK:N	2.52	0.42
42:8N:201:UNK:O	42:8N:205:UNK:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AA:88:HIS:HE1	44:AA:90:GLU:HG2	1.81	0.42
44:AA:261:PRO:HG2	44:AA:313:MET:HE2	2.01	0.42
44:AA:377:MET:O	44:AA:378:ILE:HD13	2.19	0.42
45:AB:21:TRP:CE3	45:AB:61:PRO:HB3	2.55	0.42
45:AB:73:MET:CE	45:AB:90:PHE:CE2	3.03	0.42
44:AC:102:ASN:ND2	44:AC:411:GLU:HG3	2.34	0.42
45:AD:86:ARG:NH2	45:AD:87:PRO:HG2	2.34	0.42
45:AD:113:ILE:HD12	45:AD:150:LEU:CD2	2.49	0.42
45:AD:162:ARG:NE	45:AD:162:ARG:HA	2.34	0.42
45:AD:282:ARG:HB3	45:AD:282:ARG:CZ	2.49	0.42
44:AE:209:ILE:HA	44:AE:212:ILE:HB	2.01	0.42
45:AF:69:GLU:OE1	45:AF:71:GLY:N	2.49	0.42
44:AG:73:THR:HG23	44:AG:74:VAL:N	2.34	0.42
45:AH:21:TRP:CZ2	45:AH:61:PRO:HB3	2.54	0.42
44:AI:1:MET:CE	45:AL:94:GLN:HG3	2.50	0.42
44:AI:326:LYS:HE2	45:AL:219:THR:HA	2.00	0.42
45:AJ:24:ILE:HD11	45:AJ:241:ARG:HH12	1.83	0.42
45:AJ:69:GLU:OE2	45:AJ:72:THR:HG22	2.19	0.42
44:AK:103:PHE:N	44:AK:408:TYR:HE1	2.17	0.42
44:AK:145:THR:O	44:AK:149:LEU:HB2	2.19	0.42
44:AK:280:LYS:CE	44:MK:89:PRO:HB2	2.48	0.42
45:AL:374:ILE:HD11	45:AL:422:TYR:CZ	2.54	0.42
44:AM:254:GLU:HG3	44:AM:254:GLU:O	2.20	0.42
45:AN:49:VAL:HG21	45:AN:241:ARG:HG2	2.01	0.42
45:AN:420:SER:O	45:AN:423:GLN:HG3	2.20	0.42
44:BA:26:LEU:CD2	44:BA:363:VAL:HG23	2.49	0.42
44:BA:103:PHE:N	44:BA:408:TYR:HE2	2.10	0.42
44:BA:194:LEU:HD12	44:BA:195:LEU:N	2.34	0.42
44:BC:77:GLU:OE2	45:BD:243:PRO:HG3	2.20	0.42
45:BD:303:ALA:HB2	45:BD:376:GLU:HB3	2.01	0.42
44:BE:276:ILE:HG23	44:BE:281:ALA:HB2	2.00	0.42
44:BG:102:ASN:HB3	44:BG:105:ARG:HB2	2.00	0.42
45:BH:107:THR:CG2	45:BH:108:GLU:N	2.82	0.42
44:BI:313:MET:HB2	44:BI:380:ASN:O	2.19	0.42
45:BJ:7:ILE:HG12	45:BJ:64:ILE:HB	2.02	0.42
45:BJ:167:PHE:HE1	45:BJ:233:MET:HG2	1.73	0.42
44:BK:329:ASN:OD1	45:BN:175:VAL:HG11	2.20	0.42
44:BM:51:THR:HG22	44:BM:52:PHE:CE1	2.54	0.42
44:BM:284:GLU:OE1	44:BM:285:GLN:HG2	2.19	0.42
44:BM:370:LYS:O	44:BM:370:LYS:HG3	2.19	0.42
45:BN:167:PHE:CZ	45:BN:233:MET:CE	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:263:LEU:HG	45:BN:422:TYR:CD1	2.54	0.42
45:BN:310:TYR:CD1	45:BN:371:SER:HB2	2.55	0.42
44:CA:286:LEU:HA	44:CA:290:GLU:OE2	2.20	0.42
44:CA:346:TRP:CG	45:CB:391:ARG:HG3	2.53	0.42
45:CD:239:CYS:HB2	45:CD:248:SER:HB3	2.00	0.42
45:CD:259:PRO:HA	44:CE:404:PHE:CE2	2.54	0.42
44:CE:242:LEU:HD23	44:CE:242:LEU:C	2.40	0.42
45:CF:4:ILE:HG23	45:CF:131:GLN:HB3	2.01	0.42
45:CF:315:ALA:C	45:CF:316:LEU:HD22	2.39	0.42
45:CF:379:LYS:HE2	45:CF:419:VAL:HG11	2.01	0.42
44:CG:145:THR:HG22	46:CG:501:GTP:O3B	2.19	0.42
45:CH:66:MET:HE3	45:CH:147:MET:SD	2.59	0.42
44:CI:137:VAL:O	44:CI:137:VAL:HG13	2.19	0.42
45:CJ:117:LEU:HD13	45:CJ:154:LYS:HD2	2.01	0.42
45:CJ:213:ARG:HG2	45:CJ:297:LYS:CE	2.50	0.42
44:CK:6:SER:HG	44:CK:65:ALA:HA	1.83	0.42
45:CL:103:LYS:HD3	45:CL:401:GLU:OE1	2.19	0.42
45:CL:200:MET:HB2	45:CL:268:ILE:HG23	2.02	0.42
45:CL:208:TYR:OH	45:CL:225:LEU:HD11	2.20	0.42
45:CN:276:ARG:CZ	45:CN:279:GLN:HE22	2.33	0.42
45:CN:342:VAL:HG21	45:CN:344:TRP:HD1	1.85	0.42
45:DB:247:ASN:H	44:DC:11:GLN:NE2	2.17	0.42
44:DC:88:HIS:HE1	44:DC:90:GLU:HG2	1.80	0.42
44:DC:132:LEU:HD22	44:DC:164:LYS:HD2	2.01	0.42
44:DC:271:SER:HB2	44:DC:377:MET:CG	2.48	0.42
44:DE:105:ARG:C	44:DE:110:ILE:HG12	2.40	0.42
44:DE:230:LEU:HD11	44:DE:275:ILE:HD13	2.00	0.42
44:DG:18:ASN:O	44:DG:22:GLU:OE1	2.37	0.42
44:DG:175:PRO:CG	44:DG:304:LYS:HB3	2.50	0.42
44:DI:210:TYR:CZ	44:DI:227:LEU:HD11	2.55	0.42
44:DI:326:LYS:HD2	44:DI:327:ASP:N	2.34	0.42
45:DJ:133:PHE:H	45:DJ:164:MET:HE1	1.85	0.42
45:DJ:173:PRO:HG3	45:DJ:380:ARG:HD3	2.00	0.42
45:DJ:276:ARG:HH11	45:DJ:279:GLN:N	2.18	0.42
44:DK:259:LEU:HD21	44:DK:316:SER:HB3	2.01	0.42
44:DK:311:LYS:HE2	44:DK:344:VAL:HG23	2.00	0.42
45:DL:288:GLU:HA	45:DL:291:GLN:HG2	2.01	0.42
44:DM:323:VAL:HG11	44:DM:373:ARG:CZ	2.48	0.42
45:DN:310:TYR:HA	45:DN:371:SER:HA	2.00	0.42
44:EA:7:ILE:HG21	44:EA:153:LEU:HD13	2.01	0.42
44:EA:27:GLU:OE1	44:EA:243:ARG:NH2	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:70:PRO:HG3	45:EB:93:GLY:O	2.20	0.42
45:ED:324:LYS:HD3	45:ED:324:LYS:HA	1.68	0.42
45:ED:418:LEU:O	45:ED:422:TYR:HB2	2.19	0.42
44:EE:152:LEU:O	44:EE:155:GLU:HB2	2.18	0.42
44:EE:251:ASP:O	44:EE:254:GLU:N	2.53	0.42
44:EE:344:VAL:HG22	44:EE:345:ASP:N	2.34	0.42
45:EF:172:SER:CB	45:EF:205:GLU:HB2	2.49	0.42
45:EF:186:THR:HG21	45:EF:385:PHE:CD1	2.55	0.42
45:EF:320:ARG:NH1	45:EF:355:ASP:O	2.52	0.42
45:EF:330:MET:HB3	45:EF:349:ILE:CG2	2.48	0.42
44:EG:91:GLN:HG2	44:EG:121:ARG:HH22	1.84	0.42
44:EG:266:HIS:O	44:EG:267:PHE:HD1	2.03	0.42
44:EG:328:VAL:HG11	44:EG:353:VAL:CG2	2.50	0.42
45:EH:20:PHE:HA	45:EH:23:VAL:CG2	2.48	0.42
45:EH:113:ILE:HA	45:EH:116:VAL:CG1	2.48	0.42
44:EI:145:THR:HG23	44:EI:146:GLY:N	2.33	0.42
45:EJ:208:TYR:CE1	45:EJ:225:LEU:HD11	2.54	0.42
44:EK:223:THR:HG23	44:EK:225:THR:OG1	2.19	0.42
45:EL:29:GLY:HA3	45:EL:43:GLN:NE2	2.35	0.42
45:EL:143:THR:CG2	45:EL:144:GLY:N	2.82	0.42
45:EL:183:TYR:OH	45:EL:388:MET:O	2.36	0.42
45:EN:134:GLN:HB3	45:EN:165:GLU:OE2	2.19	0.42
45:EN:137:HIS:HD1	45:EN:138:SER:C	2.23	0.42
45:EN:180:VAL:HG22	45:EN:180:VAL:O	2.19	0.42
45:EN:187:LEU:HD21	45:EN:408:PHE:CE1	2.54	0.42
44:FA:71:GLU:HA	44:FA:72:PRO:HD3	1.86	0.42
44:FA:186:ASN:O	44:FA:189:LEU:HB2	2.19	0.42
44:FA:324:VAL:HG13	44:FA:325:PRO:HD2	2.02	0.42
45:FB:68:LEU:HD12	45:FB:93:GLY:HA3	2.01	0.42
45:FB:423:GLN:HA	45:FB:426:GLN:HB2	2.02	0.42
45:FD:31:ASP:OD2	45:FD:37:HIS:HB2	2.19	0.42
44:FE:97:GLU:HG2	44:FE:105:ARG:HH22	1.84	0.42
44:FE:181:VAL:HA	45:FF:347:ASN:O	2.20	0.42
45:FF:60:VAL:HG11	45:FF:86:ARG:HH21	1.84	0.42
45:FH:166:THR:HG22	45:FH:199:CYS:HA	1.97	0.42
45:FH:206:ALA:O	45:FH:209:ASP:N	2.53	0.42
45:FH:293:MET:SD	45:FH:367:PHE:CD1	3.12	0.42
44:FI:221:ARG:HD3	45:FJ:322:SER:CB	2.49	0.42
45:FJ:45:GLU:O	45:FJ:46:ARG:HD2	2.19	0.42
45:FJ:207:LEU:HD23	45:FJ:300:MET:HG3	2.02	0.42
45:FL:309:ARG:O	45:FL:372:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FM:71:GLU:HB3	44:FM:74:VAL:CG2	2.49	0.42
44:FM:141:VAL:HG22	44:FM:187:SER:HA	2.01	0.42
44:FM:148:GLY:O	44:FM:152:LEU:HB2	2.20	0.42
44:FM:387:VAL:HA	44:FM:390:ARG:HG2	2.02	0.42
45:FN:3:GLU:OE1	45:FN:3:GLU:N	2.52	0.42
45:FN:153:SER:HA	45:FN:195:ASN:HD22	1.83	0.42
45:FN:210:ILE:HG22	45:FN:214:THR:OG1	2.19	0.42
45:FN:398:TYR:O	45:FN:403:MET:HG2	2.19	0.42
44:GA:306:ASP:HB3	44:GA:309:HIS:ND1	2.34	0.42
45:GB:215:LEU:O	45:GB:275:SER:HB2	2.19	0.42
45:GB:317:PHE:CZ	45:GB:326:VAL:HG13	2.54	0.42
44:GC:119:LEU:HA	44:GC:122:ILE:HB	2.00	0.42
45:GD:46:ARG:CZ	45:GD:46:ARG:HB2	2.49	0.42
45:GF:215:LEU:CA	45:GF:275:SER:HA	2.47	0.42
45:GF:378:PHE:O	45:GF:381:VAL:HG12	2.19	0.42
44:GG:351:PHE:N	45:GJ:179:VAL:HG12	2.33	0.42
45:GH:86:ARG:HH12	45:HH:278:SER:HA	1.84	0.42
45:GH:410:GLU:O	45:GH:413:SER:N	2.52	0.42
44:GI:209:ILE:HG12	44:GI:302:MET:CE	2.50	0.42
44:GI:256:GLN:O	45:GL:397:TRP:HZ2	2.02	0.42
45:GJ:31:ASP:HB2	45:GJ:35:THR:O	2.19	0.42
45:GJ:180:VAL:HG22	45:GJ:180:VAL:O	2.19	0.42
45:GJ:285:THR:O	45:GJ:289:LEU:HG	2.20	0.42
45:GJ:345:ILE:O	45:GJ:345:ILE:HG23	2.20	0.42
44:GK:190:SER:O	44:GK:194:LEU:HG	2.19	0.42
44:GK:292:THR:O	44:GK:295:ALA:N	2.48	0.42
45:GL:42:LEU:O	45:GL:45:GLU:HG3	2.19	0.42
44:GM:100:ALA:N	46:GM:501:GTP:O3G	2.53	0.42
44:GM:196:GLU:OE1	44:GM:196:GLU:N	2.52	0.42
44:GM:203:MET:HE3	44:GM:384:ILE:HD13	1.98	0.42
44:GM:372:MET:CE	44:GM:372:MET:HA	2.49	0.42
45:GN:18:ALA:HB2	45:GN:76:VAL:CG2	2.50	0.42
45:GN:216:LYS:HB2	45:GN:275:SER:HB2	2.01	0.42
44:HA:145:THR:HG23	46:HA:501:GTP:O1B	2.19	0.42
44:HA:371:VAL:CG1	44:HA:372:MET:N	2.81	0.42
45:HB:270:PHE:HA	45:HB:366:THR:HG23	2.01	0.42
44:HC:181:VAL:HG22	45:HD:345:ILE:HD11	2.01	0.42
44:HC:230:LEU:HD12	44:HC:275:ILE:CD1	2.45	0.42
44:HC:261:PRO:HD3	44:HC:380:ASN:HD22	1.82	0.42
44:HC:318:MET:HB3	44:HC:376:CYS:SG	2.59	0.42
45:HD:175:VAL:CG1	45:HD:205:GLU:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HD:192:LEU:HD21	45:HD:199:CYS:SG	2.60	0.42
45:HD:391:ARG:HA	45:HD:391:ARG:HD2	1.80	0.42
44:HE:101:ASN:C	44:HE:144:GLY:HA3	2.40	0.42
44:HE:210:TYR:O	44:HE:213:CYS:HB2	2.19	0.42
44:HE:431:ASP:O	44:HE:435:VAL:HG23	2.20	0.42
45:HF:237:THR:OG1	45:HF:240:LEU:HB3	2.20	0.42
45:HF:242:PHE:HB3	45:HF:356:ILE:HG12	2.01	0.42
45:HF:257:LEU:CD1	45:HF:314:SER:HB2	2.37	0.42
44:HG:13:GLY:C	44:HG:16:VAL:HG12	2.40	0.42
44:HG:355:ILE:O	44:HG:356:ASN:ND2	2.44	0.42
45:HH:253:LEU:O	45:HH:257:LEU:HB2	2.20	0.42
44:HI:8:HIS:HB3	44:HI:13:GLY:HA3	2.01	0.42
44:HI:205:ASP:CG	44:HI:304:LYS:H	2.23	0.42
44:HI:210:TYR:CE1	44:HI:227:LEU:HD21	2.54	0.42
44:HK:141:VAL:HG13	44:HK:190:SER:OG	2.19	0.42
44:HK:253:THR:HG23	44:HK:254:GLU:HG3	2.00	0.42
45:HL:162:ARG:NE	45:HL:162:ARG:HA	2.35	0.42
45:HL:236:VAL:HG13	45:HL:237:THR:N	2.34	0.42
45:HL:342:VAL:HG21	45:HL:344:TRP:NE1	2.34	0.42
45:IB:46:ARG:CZ	45:IB:46:ARG:HB2	2.50	0.42
45:IB:46:ARG:HG2	45:IB:46:ARG:HH11	1.84	0.42
45:IB:272:PRO:CG	45:IB:289:LEU:HD23	2.43	0.42
45:IB:294:PHE:CD1	45:IB:333:VAL:HG21	2.54	0.42
44:IC:79:ARG:O	44:IC:84:ARG:HB3	2.19	0.42
44:IC:288:VAL:CG2	44:IC:327:ASP:HB3	2.46	0.42
44:IE:223:THR:HG23	44:IE:225:THR:OG1	2.20	0.42
45:IF:6:HIS:HA	45:IF:134:GLN:HE21	1.84	0.42
45:IF:184:ASN:OD1	45:IF:185:ALA:N	2.52	0.42
45:IF:275:SER:OG	45:IF:278:SER:HB3	2.18	0.42
45:IF:404:ASP:OD1	45:IF:406:MET:HB2	2.19	0.42
44:IG:20:CYS:HA	44:IG:232:ALA:CB	2.44	0.42
44:IG:74:VAL:O	44:IG:77:GLU:HB3	2.19	0.42
44:IG:89:PRO:HD3	45:JH:281:TYR:CE2	2.54	0.42
44:IG:101:ASN:OD1	45:IH:252:LYS:HG3	2.19	0.42
44:IG:224:TYR:CD2	45:IH:245:GLN:HB3	2.54	0.42
45:IH:131:GLN:O	45:IH:131:GLN:HG3	2.19	0.42
44:II:238:LEU:HD21	44:II:255:PHE:HE2	1.85	0.42
44:II:288:VAL:HA	44:II:291:ILE:CD1	2.49	0.42
45:IJ:14:ASN:ND2	45:IJ:73:MET:HE3	2.34	0.42
45:IJ:238:CYS:HB2	45:IJ:318:ARG:CZ	2.50	0.42
44:IK:179:THR:HG21	45:IL:246:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:269:LEU:HD12	44:IK:303:ALA:HB3	2.00	0.42
44:IK:320:ARG:HH12	44:IK:360:PRO:CA	2.24	0.42
45:IL:7:ILE:HB	45:IL:135:ILE:HD13	1.99	0.42
44:IM:105:ARG:HG2	44:IM:411:GLU:CD	2.40	0.42
44:IM:315:CYS:HA	44:IM:379:SER:HA	2.00	0.42
44:IM:353:VAL:O	44:IM:353:VAL:HG13	2.19	0.42
45:IN:217:LEU:HD11	45:IN:220:PRO:HB3	2.01	0.42
45:IN:246:LEU:HB2	45:IN:353:ILE:H	1.84	0.42
44:JA:437:ILE:O	44:JA:437:ILE:HG13	2.18	0.42
45:JB:136:THR:CG2	45:JB:167:PHE:HB2	2.49	0.42
45:JB:146:GLY:O	45:JB:149:THR:HG22	2.19	0.42
45:JB:406:MET:CE	45:NB:306:ARG:NH1	2.83	0.42
44:JC:8:HIS:HD2	44:JC:138:PHE:HD1	1.65	0.42
45:JD:271:ALA:HB1	45:JD:272:PRO:HA	2.00	0.42
45:JD:296:ALA:HB3	45:JD:306:ARG:HH21	1.84	0.42
45:JD:342:VAL:HG13	45:JD:345:ILE:CG2	2.42	0.42
44:JE:416:GLY:O	44:JE:419:SER:HB3	2.20	0.42
45:JF:342:VAL:CG1	45:JF:345:ILE:HG22	2.45	0.42
44:JG:183:GLU:HG3	44:JG:184:PRO:HD3	2.00	0.42
45:JH:58:ARG:NE	45:KH:280:GLN:OE1	2.53	0.42
45:JJ:143:THR:HG22	48:JJ:501:GDP:O1B	2.19	0.42
45:JJ:214:THR:HG23	45:JJ:215:LEU:HG	2.01	0.42
45:JL:197:ASP:O	45:JL:264:HIS:HB2	2.19	0.42
44:JM:105:ARG:O	44:JM:110:ILE:HG12	2.18	0.42
44:JM:141:VAL:HG13	44:JM:187:SER:HA	1.99	0.42
44:JM:185:TYR:CZ	44:JM:398:MET:HE1	2.54	0.42
45:JN:140:GLY:O	45:JN:184:ASN:ND2	2.52	0.42
45:JN:378:PHE:HB3	45:JN:419:VAL:CG2	2.50	0.42
44:KA:51:THR:OG1	44:KA:243:ARG:HG2	2.19	0.42
44:KA:175:PRO:HB3	44:KA:390:ARG:HE	1.83	0.42
45:KB:322:SER:OG	45:KB:323:THR:N	2.50	0.42
44:KC:47:ASP:O	44:KC:48:ALA:HB3	2.19	0.42
44:KE:304:LYS:O	44:KE:304:LYS:HG3	2.20	0.42
45:KF:100:ASN:HB2	45:KF:103:LYS:HZ3	1.83	0.42
45:KF:182:PRO:O	45:KF:186:THR:HG22	2.20	0.42
45:KF:183:TYR:CZ	45:KF:388:MET:CE	3.03	0.42
44:KG:320:ARG:CZ	44:KG:320:ARG:HB3	2.49	0.42
45:KJ:230:SER:HA	45:KJ:233:MET:HG3	1.97	0.42
44:KK:63:PRO:HG2	44:KK:87:PHE:CE1	2.54	0.42
44:KK:191:THR:O	44:KK:194:LEU:HG	2.20	0.42
45:KL:54:ALA:HB3	45:KL:58:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KL:238:CYS:SG	45:KL:239:CYS:N	2.92	0.42
44:KM:230:LEU:HD23	44:KM:230:LEU:HA	1.84	0.42
45:KN:415:MET:O	45:KN:415:MET:HG2	2.20	0.42
44:LA:181:VAL:HG22	45:LB:256:ASN:HB3	2.01	0.42
44:LA:224:TYR:HE2	45:LB:246:LEU:HD11	1.84	0.42
45:LB:46:ARG:HB2	45:LB:241:ARG:O	2.18	0.42
45:LB:318:ARG:HB3	45:LB:358:PRO:HD2	1.97	0.42
44:LC:6:SER:O	44:LC:7:ILE:HD13	2.19	0.42
44:LC:258:ASN:HD22	44:LC:352:LYS:CD	2.29	0.42
45:LD:140:GLY:O	45:LD:184:ASN:ND2	2.46	0.42
44:LE:141:VAL:O	44:LE:141:VAL:HG22	2.20	0.42
44:LE:172:TYR:HH	44:LE:191:THR:HG1	1.54	0.42
44:LE:194:LEU:C	44:LE:194:LEU:HD12	2.40	0.42
44:LE:368:LEU:H	44:LE:368:LEU:HD23	1.85	0.42
44:LE:430:LYS:HA	44:LE:430:LYS:HD2	1.77	0.42
45:LF:186:THR:HG21	45:LF:385:PHE:CE1	2.54	0.42
44:LG:137:VAL:HG23	44:LG:168:GLY:HA2	2.01	0.42
44:LG:161:TYR:HD2	44:LG:164:LYS:CE	2.32	0.42
44:LG:403:ALA:HB2	45:LH:260:PHE:CZ	2.55	0.42
45:LH:91:VAL:CG2	45:LH:116:VAL:HG22	2.29	0.42
45:LH:109:GLY:HA2	45:LH:147:MET:HG3	2.01	0.42
44:LI:4:VAL:CG2	44:LI:52:PHE:HE1	2.32	0.42
44:LI:172:TYR:OH	44:LI:191:THR:OG1	2.31	0.42
44:LI:192:HIS:CE1	44:LI:420:GLU:HG3	2.55	0.42
45:LJ:113:ILE:O	45:LJ:116:VAL:HG12	2.19	0.42
45:LJ:199:CYS:HB2	45:LJ:265:PHE:CE1	2.54	0.42
44:LK:322:ASP:OD1	44:LK:373:ARG:NH1	2.51	0.42
45:LL:135:ILE:HG12	45:LL:165:GLU:O	2.20	0.42
45:LL:157:GLU:OE1	45:LL:157:GLU:HA	2.19	0.42
45:LL:372:THR:HA	45:LL:422:TYR:CE2	2.55	0.42
44:LM:278:ALA:H	44:LM:369:ALA:HB2	1.84	0.42
44:LM:320:ARG:CD	44:LM:360:PRO:HG3	2.49	0.42
45:LN:67:ASP:HB3	45:LN:73:MET:CE	2.49	0.42
45:LN:143:THR:HG23	48:LN:502:GDP:O1B	2.19	0.42
45:MB:149:THR:HG23	45:MB:150:LEU:N	2.34	0.42
44:MC:151:SER:HB3	44:MC:193:SER:OG	2.20	0.42
44:MC:288:VAL:HA	44:MC:291:ILE:CD1	2.49	0.42
45:MD:28:HIS:ND1	45:MD:47:ILE:HD12	2.34	0.42
45:MD:46:ARG:HG3	45:MD:49:VAL:CG2	2.49	0.42
44:ME:192:HIS:ND1	44:ME:195:LEU:HD23	2.35	0.42
45:MF:46:ARG:HA	45:MF:46:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:161:TYR:CB	44:MG:164:LYS:HD2	2.48	0.42
44:MG:190:SER:O	44:MG:193:SER:HB3	2.19	0.42
44:MG:375:VAL:O	44:MG:375:VAL:HG23	2.20	0.42
45:MH:299:MET:HG3	45:MH:305:PRO:HG2	2.01	0.42
45:MH:345:ILE:O	45:MH:345:ILE:HG23	2.20	0.42
44:MK:319:TYR:O	44:MK:356:ASN:N	2.49	0.42
45:ML:66:MET:HE1	45:ML:147:MET:HG2	2.02	0.42
44:MM:235:ILE:HD12	44:MM:235:ILE:H	1.84	0.42
45:MN:46:ARG:O	45:MN:49:VAL:HG23	2.19	0.42
44:NA:273:ALA:O	44:NA:375:VAL:N	2.51	0.42
44:NA:301:MET:HE3	44:NA:307:PRO:HG3	2.01	0.42
44:NC:208:ALA:CB	44:NC:302:MET:HA	2.49	0.42
44:NC:225:THR:O	44:NC:229:ARG:HG2	2.20	0.42
44:NC:305:CYS:O	44:NC:307:PRO:HD3	2.19	0.42
44:NE:20:CYS:CA	44:NE:232:ALA:HB1	2.48	0.42
44:NE:163:LYS:HG3	44:NE:163:LYS:O	2.18	0.42
44:NE:318:MET:CE	44:NE:354:GLY:HA3	2.49	0.42
44:NE:319:TYR:O	44:NE:320:ARG:HB3	2.20	0.42
44:NE:423:GLU:O	44:NE:426:ALA:HB3	2.18	0.42
45:NF:198:GLU:HG2	45:NF:266:PHE:HE2	1.85	0.42
45:NH:68:LEU:HD23	45:NH:147:MET:HG3	2.02	0.42
45:NH:154:LYS:CA	45:NH:157:GLU:HG2	2.49	0.42
45:NH:293:MET:HG3	45:NH:367:PHE:HB2	2.01	0.42
44:NI:172:TYR:HE2	44:NI:203:MET:CE	2.33	0.42
44:NI:288:VAL:HG21	44:NI:327:ASP:HB3	2.02	0.42
44:NK:21:TRP:CH2	44:NK:63:PRO:HB3	2.54	0.42
44:NK:145:THR:HG22	46:NK:501:GTP:PG	2.60	0.42
44:NK:221:ARG:N	44:NK:222:PRO:CD	2.82	0.42
44:NK:275:ILE:O	44:NK:275:ILE:CG2	2.67	0.42
44:NM:105:ARG:NH2	44:NM:110:ILE:HG21	2.17	0.42
44:OA:3:GLU:OE2	44:OA:131:GLY:N	2.52	0.42
44:OA:88:HIS:CE1	44:OA:90:GLU:HG3	2.54	0.42
44:OA:207:GLU:O	44:OA:210:TYR:HB2	2.20	0.42
44:OC:323:VAL:CG1	44:OC:328:VAL:HG23	2.49	0.42
44:OC:345:ASP:CB	44:OC:438:GLU:HG3	2.42	0.42
44:OC:407:TRP:CH2	45:OD:254:ALA:HB1	2.46	0.42
45:OD:4:ILE:HG22	45:OD:132:GLY:N	2.35	0.42
45:OD:150:LEU:CD1	45:OD:154:LYS:HE3	2.46	0.42
44:OE:229:ARG:NH1	44:OE:363:VAL:HG11	2.34	0.42
45:OF:19:LYS:HA	45:OF:22:GLU:CD	2.37	0.42
45:OF:62:ARG:HG3	45:OF:62:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OF:207:LEU:HA	45:OF:210:ILE:CG2	2.49	0.42
44:OG:74:VAL:O	44:OG:78:VAL:HG23	2.19	0.42
44:OG:214:ARG:HA	44:OG:219:ILE:O	2.19	0.42
44:OG:238:LEU:HD11	44:OG:255:PHE:CZ	2.51	0.42
45:OH:170:VAL:HG22	45:OH:171:PRO:HD2	2.00	0.42
44:OI:276:ILE:CG2	44:OI:281:ALA:HB2	2.50	0.42
44:OK:36:MET:CG	44:OK:37:PRO:HD2	2.48	0.42
44:OK:88:HIS:HB3	44:OK:91:GLN:OE1	2.20	0.42
44:OK:282:TYR:HD2	44:OK:283:HIS:CE1	2.37	0.42
44:OM:182:VAL:HG23	44:OM:185:TYR:CD2	2.54	0.42
44:OM:296:PHE:HZ	44:OM:351:PHE:HE2	1.66	0.42
45:ON:310:TYR:N	45:ON:340:TYR:O	2.46	0.42
44:PA:195:LEU:HD22	44:PA:428:LEU:HD21	2.02	0.42
44:PC:24:PHE:HZ	44:PC:235:ILE:HG21	1.84	0.42
44:PC:311:LYS:HZ2	44:PC:342:GLN:HG3	1.84	0.42
45:PD:5:VAL:HA	45:PD:162:ARG:CB	2.49	0.42
45:PD:5:VAL:N	45:PD:162:ARG:HB2	2.33	0.42
45:PD:149:THR:OG1	45:PD:191:GLN:HB3	2.20	0.42
44:PE:232:ALA:O	44:PE:235:ILE:N	2.53	0.42
44:PE:320:ARG:CG	44:PE:374:ALA:HB3	2.49	0.42
44:PG:11:GLN:HG3	44:PG:74:VAL:HG11	2.00	0.42
44:PG:23:LEU:HD21	44:PG:233:GLN:OE1	2.20	0.42
44:PG:179:THR:O	45:PH:350:LYS:HD3	2.20	0.42
45:PJ:170:VAL:CG2	45:PJ:171:PRO:HD2	2.50	0.42
45:PJ:174:LYS:HD2	45:PJ:175:VAL:HG13	2.01	0.42
44:PK:64:ARG:HG3	44:PK:125:LEU:HD22	2.01	0.42
44:PK:247:ALA:HB2	44:PK:357:TYR:OH	2.19	0.42
45:PN:40:SER:OG	45:PN:43:GLN:HG3	2.18	0.42
45:PN:134:GLN:CA	45:PN:165:GLU:HB2	2.47	0.42
45:PN:146:GLY:O	45:PN:150:LEU:HD13	2.19	0.42
44:QA:437:ILE:O	44:QA:437:ILE:HG13	2.19	0.42
45:QB:246:LEU:HD11	44:QC:224:TYR:CE2	2.52	0.42
45:QB:325:GLU:O	45:QB:328:GLU:HG2	2.18	0.42
45:QD:375:GLN:HE22	45:QD:379:LYS:CD	2.32	0.42
44:QE:103:PHE:CE2	44:QE:189:LEU:HB3	2.55	0.42
44:QE:155:GLU:OE1	44:QE:197:HIS:NE2	2.52	0.42
45:QF:185:ALA:HA	45:QF:188:SER:OG	2.19	0.42
45:QF:286:VAL:CG1	45:QF:329:GLN:HG3	2.47	0.42
44:QG:70:LEU:HD11	44:QG:149:LEU:CD2	2.48	0.42
44:QG:182:VAL:C	44:QG:184:PRO:HD2	2.39	0.42
45:QH:390:ARG:HG3	45:QH:391:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QI:276:ILE:HD12	44:QI:284:GLU:OE2	2.19	0.42
44:QI:362:VAL:HB	44:QI:370:LYS:HB3	2.01	0.42
44:QI:413:MET:SD	44:QI:417:GLU:HB2	2.58	0.42
45:QJ:32:PRO:O	45:QJ:84:LEU:HD11	2.19	0.42
44:QK:22:GLU:OE2	44:QK:83:TYR:HE2	2.02	0.42
44:QK:118:CYS:SG	44:QK:153:LEU:HD22	2.59	0.42
44:QK:303:ALA:O	44:QK:305:CYS:N	2.49	0.42
45:QL:142:GLY:HA2	45:QL:145:SER:OG	2.18	0.42
45:QL:290:THR:HG23	45:QL:291:GLN:N	2.35	0.42
44:QM:336:LYS:HZ1	44:QM:351:PHE:HE1	1.68	0.42
44:RA:1:MET:O	44:RA:131:GLY:HA3	2.20	0.42
44:RA:226:ASN:O	44:RA:230:LEU:HD23	2.19	0.42
45:RB:256:ASN:HD21	44:RC:182:VAL:CG1	2.32	0.42
44:RC:102:ASN:CG	44:RC:105:ARG:HG3	2.40	0.42
44:RC:141:VAL:HG21	44:RC:172:TYR:CE1	2.55	0.42
44:RC:247:ALA:HB3	44:RC:355:ILE:CG2	2.49	0.42
44:RE:291:ILE:O	44:RE:294:SER:HB2	2.18	0.42
45:RF:100:ASN:HD21	45:RF:102:ALA:HB3	1.84	0.42
45:RH:289:LEU:HG	45:RH:363:MET:CE	2.49	0.42
44:RI:256:GLN:NE2	45:RJ:397:TRP:CZ2	2.87	0.42
45:RJ:50:TYR:CE2	45:RJ:241:ARG:NH2	2.87	0.42
44:RK:183:GLU:N	44:RK:184:PRO:CD	2.82	0.42
44:RK:239:THR:HB	44:RK:242:LEU:HD12	2.01	0.42
45:RL:271:ALA:HB1	45:RL:272:PRO:HA	2.01	0.42
45:RL:342:VAL:HG22	45:RL:344:TRP:CD1	2.55	0.42
44:RM:101:ASN:H	44:RM:144:GLY:CA	2.33	0.42
45:RN:211:CYS:HB3	45:RN:217:LEU:HG	2.01	0.42
44:SA:123:ARG:HA	44:SA:123:ARG:NH1	2.35	0.42
44:SA:353:VAL:HG12	45:SB:177:ASP:CA	2.49	0.42
44:SC:320:ARG:HA	44:SC:356:ASN:HB3	2.01	0.42
45:SD:211:CYS:CA	45:SD:215:LEU:HD12	2.36	0.42
44:SE:22:GLU:OE2	44:SE:83:TYR:HE2	2.02	0.42
44:SE:273:ALA:O	44:SE:375:VAL:O	2.36	0.42
45:SF:215:LEU:O	45:SF:275:SER:HB3	2.18	0.42
45:SF:236:VAL:HG13	45:SF:237:THR:N	2.35	0.42
44:SG:131:GLY:O	44:SG:132:LEU:C	2.58	0.42
44:SG:206:ASN:HA	44:SG:209:ILE:CG1	2.50	0.42
45:SH:347:ASN:O	44:SI:181:VAL:HG12	2.19	0.42
44:SI:198:THR:HG22	44:SI:199:ASP:N	2.35	0.42
44:SI:428:LEU:HG	44:SI:432:TYR:CE2	2.51	0.42
45:SJ:105:HIS:HD1	45:SJ:106:TYR:HD1	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:144:GLY:N	46:SK:501:GTP:O2G	2.52	0.42
44:SK:246:GLY:HA2	44:SK:357:TYR:CD2	2.54	0.42
44:SK:349:THR:O	44:SK:349:THR:HG23	2.19	0.42
44:SM:221:ARG:NH1	44:SM:223:THR:HG22	2.34	0.42
44:SM:248:LEU:N	44:SM:355:ILE:HB	2.34	0.42
44:SM:291:ILE:CD1	44:SM:319:TYR:HE2	2.32	0.42
45:SN:4:ILE:O	45:SN:4:ILE:HG13	2.19	0.42
45:SN:50:TYR:O	45:SN:61:PRO:HA	2.19	0.42
45:SN:187:LEU:HD11	45:SN:408:PHE:CZ	2.53	0.42
44:TC:103:PHE:CE2	44:TC:189:LEU:HD13	2.54	0.42
45:TD:36:TYR:HB2	45:TD:59:TYR:CE1	2.53	0.42
45:TD:187:LEU:HD23	45:TD:411:ALA:CB	2.49	0.42
44:TE:231:ILE:O	44:TE:234:VAL:HB	2.20	0.42
45:TF:192:LEU:O	45:TF:196:ALA:HB3	2.20	0.42
44:TG:386:GLU:C	44:TG:389:SER:HG	2.21	0.42
44:TG:413:MET:SD	44:TG:417:GLU:HB2	2.59	0.42
45:TH:251:ARG:CB	44:TI:100:ALA:HB2	2.49	0.42
44:TI:89:PRO:CD	44:UI:283:HIS:CG	3.01	0.42
44:TI:224:TYR:CD1	46:TI:501:GTP:C6	3.08	0.42
44:TI:402:ARG:O	44:TI:405:VAL:HB	2.20	0.42
45:TL:113:ILE:HA	45:TL:116:VAL:CG1	2.45	0.42
45:TL:143:THR:HG22	48:TL:501:GDP:O2B	2.18	0.42
45:TL:257:LEU:HD11	45:TL:314:SER:HB3	2.02	0.42
44:TM:257:THR:HA	45:TN:397:TRP:NE1	2.34	0.42
44:TM:294:SER:HA	44:TM:297:GLU:OE2	2.19	0.42
45:TN:258:ILE:HG13	45:TN:266:PHE:HZ	1.84	0.42
45:UB:1:MET:CE	44:UC:72:PRO:HG2	2.50	0.42
45:UB:135:ILE:HG21	45:UB:152:ILE:HD11	2.02	0.42
45:UB:418:LEU:O	45:UB:422:TYR:HB2	2.19	0.42
45:UD:3:GLU:HG3	45:UD:127:CYS:HB2	1.99	0.42
44:UE:66:VAL:O	44:UE:67:PHE:HD1	2.02	0.42
44:UE:288:VAL:O	44:UE:292:THR:HG22	2.20	0.42
44:UE:288:VAL:CB	44:UE:373:ARG:HH12	2.31	0.42
44:UE:324:VAL:HG11	45:UF:219:THR:HB	2.01	0.42
44:UE:437:ILE:HG13	44:UE:437:ILE:O	2.19	0.42
44:UG:24:PHE:HZ	44:UG:235:ILE:CG2	2.26	0.42
45:UH:112:LEU:HG	45:UH:115:SER:OG	2.19	0.42
44:UI:205:ASP:OD2	44:UI:304:LYS:N	2.50	0.42
44:UI:250:VAL:HG12	44:UI:352:LYS:HE3	2.00	0.42
45:UJ:133:PHE:CE2	45:UJ:155:VAL:HG11	2.47	0.42
45:UL:313:ALA:CB	45:UL:369:GLY:HA2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UN:36:TYR:CZ	45:UN:38:GLY:HA3	2.55	0.42
44:VA:275:ILE:HA	44:VA:368:LEU:CD1	2.50	0.42
45:VB:323:THR:O	45:VB:326:VAL:N	2.52	0.42
44:VC:71:GLU:OE2	44:VC:73:THR:OG1	2.31	0.42
44:VC:236:SER:HG	44:VC:237:SER:H	1.67	0.42
44:VC:328:VAL:O	44:VC:332:ILE:HG12	2.19	0.42
44:VC:405:VAL:O	44:VC:409:VAL:HG23	2.18	0.42
45:VD:19:LYS:O	45:VD:23:VAL:HG23	2.19	0.42
45:VD:21:TRP:CH2	45:VD:61:PRO:HB3	2.54	0.42
45:VD:109:GLY:HA3	45:VD:147:MET:HE1	2.02	0.42
44:VE:224:TYR:CD2	45:VF:245:GLN:HB3	2.54	0.42
44:VG:91:GLN:O	44:VG:93:ILE:HD12	2.18	0.42
44:VG:386:GLU:O	44:VG:389:SER:N	2.53	0.42
44:VG:396:ASP:OD2	44:VG:422:ARG:NH2	2.49	0.42
45:VH:132:GLY:HA3	45:VH:163:ILE:HG13	2.02	0.42
45:VH:257:LEU:O	45:VH:312:THR:HG21	2.20	0.42
44:VI:134:GLY:HA2	44:VI:166:LYS:NZ	2.28	0.42
44:VI:398:MET:SD	45:VJ:345:ILE:CD1	3.06	0.42
45:VJ:123:GLU:OE1	45:VJ:127:CYS:N	2.53	0.42
44:VK:34:GLY:O	44:VK:60:LYS:HA	2.20	0.42
44:VK:68:LEU:HD21	44:VK:118:CYS:CB	2.44	0.42
44:VK:71:GLU:OE1	44:VK:73:THR:N	2.52	0.42
44:VK:135:PHE:CB	44:VK:166:LYS:HG2	2.44	0.42
44:VK:223:THR:HG23	44:VK:225:THR:OG1	2.19	0.42
44:VK:310:GLY:O	44:VK:311:LYS:HE2	2.19	0.42
44:VK:313:MET:HB2	44:VK:380:ASN:ND2	2.34	0.42
45:VL:193:VAL:HA	45:VL:264:HIS:HE1	1.82	0.42
44:VM:11:GLN:NE2	45:VN:247:ASN:OD1	2.53	0.42
44:VM:70:LEU:HD13	44:VM:110:ILE:HG13	2.01	0.42
44:VM:384:ILE:CD1	44:VM:387:VAL:HG11	2.50	0.42
45:VN:200:MET:CE	45:VN:268:ILE:H	2.29	0.42
45:VN:345:ILE:O	45:VN:348:ASN:HB3	2.19	0.42
44:WA:148:GLY:O	44:WA:153:LEU:HB2	2.19	0.42
44:WA:387:VAL:HA	44:WA:390:ARG:HD2	2.01	0.42
45:WB:131:GLN:NE2	45:WB:240:LEU:HD11	2.34	0.42
45:WB:163:ILE:HD12	45:WB:251:ARG:HA	2.01	0.42
44:WC:290:GLU:O	44:WC:293:ASN:HB2	2.20	0.42
44:WC:312:TYR:CE2	44:WC:381:SER:HB3	2.54	0.42
45:WD:115:SER:O	45:WD:118:ASP:HB3	2.19	0.42
44:WE:210:TYR:CD1	45:WF:324:LYS:NZ	2.87	0.42
44:WE:381:SER:OG	44:WE:383:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WF:270:PHE:HD2	45:WF:273:LEU:HD21	1.85	0.42
45:WF:320:ARG:NH1	45:WF:357:PRO:HD3	2.35	0.42
45:WH:237:THR:CG2	45:WH:241:ARG:HH22	2.33	0.42
45:WH:250:LEU:HD12	45:WH:250:LEU:H	1.85	0.42
44:WI:6:SER:C	44:WI:7:ILE:HD13	2.40	0.42
45:WL:20:PHE:CZ	45:WL:24:ILE:HG13	2.54	0.42
44:WM:200:VAL:HG13	44:WM:268:MET:CE	2.45	0.42
44:WM:317:MET:HA	44:WM:376:CYS:O	2.20	0.42
44:WM:389:SER:HA	44:WM:429:GLU:CD	2.39	0.42
45:WN:135:ILE:N	45:WN:165:GLU:O	2.48	0.42
45:WN:150:LEU:O	45:WN:150:LEU:HD23	2.20	0.42
45:WN:183:TYR:CE2	45:WN:394:PHE:HB2	2.55	0.42
9:0H:356:LYS:CD	44:GM:58:ALA:HB1	2.41	0.42
10:0N:162:CYS:H	45:KN:276:ARG:HH21	1.67	0.42
17:1B:63:GLN:H	44:LC:84:ARG:HH21	1.67	0.42
8:1G:164:PRO:HA	44:KA:45:GLY:CA	2.49	0.42
8:1G:175:THR:HB	45:LD:212:PHE:CE1	2.54	0.42
19:1I:136:ARG:CZ	45:KF:276:ARG:HH12	2.32	0.42
20:1J:196:GLN:HA	44:IG:370:LYS:HZ2	1.81	0.42
26:1R:87:LEU:HD13	44:MC:85:GLN:NE2	2.34	0.42
26:1R:93:VAL:HG22	44:AC:370:LYS:NZ	2.02	0.42
2:2A:50:PRO:HA	45:MJ:41:ASP:OD1	2.20	0.42
32:2I:138:VAL:CA	45:GD:337:ASN:HD21	2.24	0.42
21:2K:290:GLN:CG	45:GL:362:LYS:HD3	2.48	0.42
22:2L:672:THR:CG2	45:CL:320:ARG:HH12	2.24	0.42
26:2R:146:ILE:HG12	45:BJ:277:GLY:N	2.33	0.42
15:2V:72:GLY:HA2	45:MF:340:TYR:OH	2.18	0.42
2:3A:53:HIS:HB2	44:MM:84:ARG:HH11	1.79	0.42
32:3I:256:GLN:HE22	45:FJ:1:MET:CE	2.33	0.42
32:3I:265:LYS:HA	45:GJ:306:ARG:CZ	2.49	0.42
16:3X:100:LYS:HA	44:MK:282:TYR:HE2	1.74	0.42
37:5A:112:PRO:HG2	44:KA:433:GLU:OE2	2.20	0.42
37:5D:46:ILE:CD1	45:KN:391:ARG:NH2	2.83	0.42
38:5F:180:THR:CA	38:5F:183:LYS:HE3	2.37	0.42
38:5G:31:SER:OG	38:5G:35:LEU:HD13	2.20	0.42
38:5H:48:ARG:HD2	38:5H:48:ARG:HA	1.77	0.42
38:5H:92:GLN:O	38:5H:95:ASP:N	2.52	0.42
38:5H:105:LYS:NZ	38:5H:105:LYS:HB3	2.34	0.42
39:5J:96:SER:OG	44:JG:434:GLU:HG2	2.18	0.42
39:5J:96:SER:CB	44:JG:434:GLU:HG2	2.49	0.42
39:5K:21:THR:O	39:5K:25:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5Q:76:LEU:HG	11:5Q:167:PHE:CE1	2.55	0.42
11:5Q:113:ARG:O	11:5Q:113:ARG:HG3	2.19	0.42
35:5R:95:PHE:CE2	35:5R:187:THR:HG21	2.53	0.42
35:5R:568:ASP:HA	35:5R:571:VAL:HG13	2.02	0.42
41:6G:232:PRO:HG3	44:UE:120:ASP:OD2	2.20	0.42
35:6R:154:LEU:HD12	35:6R:154:LEU:HA	1.80	0.42
35:6R:436:GLU:HB2	45:FN:280:GLN:CG	2.47	0.42
35:7R:94:ARG:NH1	44:AA:41:THR:HG21	2.29	0.42
35:7R:255:VAL:HG12	35:7R:279:PHE:CE2	2.54	0.42
35:7R:416:MET:CE	35:7R:450:ASP:HB3	2.50	0.42
35:7R:464:GLY:O	45:FB:276:ARG:N	2.52	0.42
35:7R:487:GLU:HB3	35:7R:523:PHE:CZ	2.54	0.42
35:7R:548:PHE:HA	35:7R:551:LEU:HB2	2.00	0.42
44:AA:374:ALA:O	44:AA:375:VAL:HG23	2.20	0.42
45:AB:16:ILE:HD12	45:AB:229:VAL:HG11	2.01	0.42
45:AB:55:THR:N	45:BB:283:ALA:CB	2.80	0.42
44:AC:88:HIS:ND1	44:AC:90:GLU:HG2	2.32	0.42
45:AD:398:TYR:O	45:AD:403:MET:HG2	2.20	0.42
44:AE:6:SER:OG	44:AE:65:ALA:HB2	2.20	0.42
44:AE:13:GLY:O	44:AE:17:GLY:N	2.44	0.42
45:AF:216:LYS:HG2	45:AF:216:LYS:O	2.18	0.42
44:AG:86:LEU:HD12	44:AG:86:LEU:HA	1.92	0.42
44:AG:238:LEU:HD23	44:AG:238:LEU:O	2.20	0.42
45:AH:275:SER:OG	45:AH:278:SER:HB3	2.18	0.42
45:AH:326:VAL:HG11	45:AH:353:ILE:HD11	2.01	0.42
45:AH:404:ASP:OD2	45:AH:406:MET:HE2	2.20	0.42
44:AI:84:ARG:H	44:AI:84:ARG:HG2	1.66	0.42
45:AJ:7:ILE:O	45:AJ:135:ILE:HD13	2.20	0.42
45:AJ:341:PHE:HB3	45:AJ:348:ASN:ND2	2.13	0.42
45:AL:192:LEU:CD1	45:AL:196:ALA:HB2	2.50	0.42
45:AL:262:ARG:HH11	45:AL:262:ARG:HG3	1.85	0.42
44:AM:428:LEU:HD11	44:AM:432:TYR:HE1	1.85	0.42
45:AN:6:HIS:HE2	45:AN:8:GLN:HE21	1.67	0.42
45:AN:69:GLU:HA	45:AN:70:PRO:HD3	1.88	0.42
44:BA:22:GLU:HG3	44:BA:83:TYR:CZ	2.53	0.42
44:BA:26:LEU:HD21	44:BA:363:VAL:HA	2.01	0.42
44:BA:211:ASP:C	44:BA:214:ARG:H	2.20	0.42
44:BA:419:SER:O	44:BA:422:ARG:HB2	2.19	0.42
45:BB:69:GLU:HA	45:BB:70:PRO:HD3	1.89	0.42
44:BE:306:ASP:OD1	44:BE:308:ARG:N	2.52	0.42
44:BE:344:VAL:HG21	44:BE:346:TRP:NE1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BF:77:ARG:HD3	45:BF:90:PHE:CZ	2.54	0.42
45:BF:103:LYS:N	45:BF:401:GLU:OE1	2.52	0.42
44:BG:32:PRO:HB3	44:BG:83:TYR:HE1	1.84	0.42
45:BH:163:ILE:HA	45:BH:197:ASP:OD2	2.20	0.42
45:BH:377:MET:SD	45:BH:380:ARG:HD2	2.59	0.42
44:BI:221:ARG:CZ	45:BJ:322:SER:H	2.32	0.42
44:BI:238:LEU:HD23	44:BI:238:LEU:O	2.19	0.42
44:BI:407:TRP:CE3	45:BJ:255:VAL:HA	2.55	0.42
45:BJ:68:LEU:HD23	45:BJ:97:ALA:N	2.34	0.42
45:BJ:89:ASN:HD21	45:BJ:119:VAL:HG21	1.84	0.42
45:BN:302:ALA:N	45:BN:377:MET:HE2	2.34	0.42
44:CA:21:TRP:CZ2	44:CA:65:ALA:HB2	2.50	0.42
45:CB:35:THR:HB	45:CB:37:HIS:CE1	2.54	0.42
45:CB:167:PHE:HZ	45:CB:236:VAL:HG21	1.84	0.42
45:CB:286:VAL:HB	45:CB:325:GLU:CD	2.39	0.42
44:CC:49:PHE:O	44:CC:53:PHE:HB2	2.20	0.42
44:CC:229:ARG:CD	44:CC:363:VAL:HG11	2.47	0.42
45:CD:6:HIS:NE2	45:CD:8:GLN:OE1	2.44	0.42
45:CD:266:PHE:CD1	45:CD:370:ASN:HB2	2.55	0.42
45:CD:286:VAL:HB	45:CD:325:GLU:CD	2.39	0.42
45:CF:200:MET:SD	45:CF:266:PHE:HB2	2.59	0.42
44:CG:353:VAL:HG23	44:CG:353:VAL:O	2.19	0.42
45:CH:66:MET:HE3	45:CH:147:MET:CE	2.49	0.42
45:CH:100:ASN:HD22	45:CH:103:LYS:CE	2.28	0.42
45:CH:310:TYR:HA	45:CH:371:SER:CB	2.49	0.42
45:CH:345:ILE:O	45:CH:345:ILE:CG2	2.66	0.42
44:CI:89:PRO:HB3	44:DI:280:LYS:HD2	2.02	0.42
45:CJ:117:LEU:HD13	45:CJ:154:LYS:CD	2.50	0.42
45:CJ:325:GLU:HA	45:CJ:328:GLU:CG	2.48	0.42
45:CJ:330:MET:HA	45:CJ:330:MET:CE	2.49	0.42
44:CK:264:ARG:NH1	44:CK:431:ASP:OD2	2.53	0.42
45:CL:68:LEU:N	45:CL:68:LEU:HD12	2.34	0.42
44:CM:6:SER:HA	44:CM:136:LEU:O	2.19	0.42
44:CM:122:ILE:HD12	44:CM:122:ILE:H	1.84	0.42
44:CM:258:ASN:CG	45:CN:179:VAL:HG22	2.40	0.42
45:CN:201:VAL:HG23	45:CN:301:CYS:HG	1.85	0.42
45:CN:345:ILE:O	45:CN:345:ILE:HG23	2.19	0.42
44:DA:168:GLY:O	44:DA:201:ALA:HA	2.19	0.42
44:DA:261:PRO:HD2	44:DA:380:ASN:ND2	2.34	0.42
44:DA:363:VAL:CG2	44:DA:364:PRO:HD2	2.49	0.42
44:DA:405:VAL:HG12	44:DA:409:VAL:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DB:134:GLN:C	45:DB:135:ILE:HD13	2.39	0.42
44:DC:324:VAL:HG12	44:DC:326:LYS:H	1.83	0.42
44:DE:23:LEU:CD1	44:DE:361:THR:HG23	2.49	0.42
44:DE:381:SER:O	44:DE:384:ILE:HG12	2.20	0.42
45:DF:28:HIS:CE1	45:DF:241:ARG:HD2	2.53	0.42
45:DH:36:TYR:CE1	45:DH:38:GLY:N	2.84	0.42
45:DH:334:GLN:HE22	45:DH:347:ASN:HA	1.84	0.42
44:DI:18:ASN:OD1	44:DI:78:VAL:HG21	2.19	0.42
44:DI:185:TYR:CE1	44:DI:398:MET:HE3	2.54	0.42
44:DI:346:TRP:HZ2	44:DI:435:VAL:CG2	2.33	0.42
45:DJ:4:ILE:HD11	45:DJ:50:TYR:OH	2.20	0.42
45:DJ:64:ILE:CD1	45:DJ:120:VAL:HG22	2.25	0.42
45:DJ:130:LEU:HD21	45:DJ:133:PHE:HE1	1.83	0.42
45:DJ:135:ILE:HG13	45:DJ:152:ILE:HD11	2.01	0.42
45:DJ:293:MET:CE	45:DJ:294:PHE:HD1	2.32	0.42
44:DK:71:GLU:HA	44:DK:72:PRO:HD3	1.88	0.42
44:DK:217:LEU:HD13	44:DK:367:ASP:HB3	2.02	0.42
45:DL:130:LEU:HD21	45:DL:133:PHE:CZ	2.54	0.42
44:DM:254:GLU:HG2	45:DN:98:GLY:HA3	2.02	0.42
44:DM:384:ILE:HG13	44:DM:387:VAL:CG2	2.50	0.42
45:DN:217:LEU:O	45:DN:220:PRO:HD3	2.19	0.42
45:EB:28:HIS:HE1	45:EB:241:ARG:HD2	1.85	0.42
45:EB:55:THR:HG22	45:FB:283:ALA:HA	2.02	0.42
45:EB:213:ARG:HH21	45:EB:297:LYS:CD	2.33	0.42
44:EC:141:VAL:HG13	44:EC:142:GLY:N	2.34	0.42
44:EC:221:ARG:N	44:EC:222:PRO:HD3	2.34	0.42
44:EC:235:ILE:HD12	44:EC:235:ILE:H	1.83	0.42
44:EC:316:SER:O	44:EC:378:ILE:N	2.50	0.42
45:ED:5:VAL:HG22	45:ED:133:PHE:CD1	2.55	0.42
45:ED:236:VAL:HG13	45:ED:237:THR:N	2.35	0.42
44:EE:215:ARG:NH2	44:EE:299:ALA:O	2.53	0.42
44:EE:247:ALA:N	44:EE:357:TYR:HE2	2.17	0.42
44:EE:340:THR:O	44:EE:341:ILE:HD13	2.20	0.42
44:EG:189:LEU:HD11	44:EG:418:PHE:CE1	2.54	0.42
45:EH:170:VAL:HG22	45:EH:171:PRO:CD	2.43	0.42
45:EH:253:LEU:HD21	45:EH:316:LEU:CD1	2.49	0.42
44:EI:31:GLN:HB3	44:EI:32:PRO:CD	2.49	0.42
44:EI:267:PHE:HB2	44:EI:384:ILE:HD13	2.02	0.42
45:EJ:107:THR:HG23	45:EJ:108:GLU:N	2.34	0.42
45:EJ:286:VAL:HB	45:EJ:363:MET:HE2	2.01	0.42
44:EK:166:LYS:N	44:EK:199:ASP:OD2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EL:21:TRP:CZ3	45:EL:61:PRO:HB3	2.54	0.42
45:EL:286:VAL:CG2	45:EL:287:PRO:CD	2.97	0.42
45:EL:311:LEU:N	45:EL:370:ASN:O	2.50	0.42
44:EM:247:ALA:HB3	44:EM:355:ILE:CG2	2.43	0.42
44:EM:326:LYS:HD2	44:EM:327:ASP:N	2.35	0.42
45:EN:117:LEU:HA	45:EN:120:VAL:CB	2.32	0.42
45:EN:200:MET:HE1	45:EN:268:ILE:CD1	2.49	0.42
45:FB:150:LEU:HD21	45:FB:154:LYS:HZ3	1.81	0.42
45:FB:217:LEU:CD1	45:FB:220:PRO:HG3	2.49	0.42
45:FB:321:MET:HE3	45:FB:363:MET:HG3	2.02	0.42
44:FC:51:THR:CB	44:FC:243:ARG:HG3	2.46	0.42
44:FC:172:TYR:HE2	44:FC:203:MET:HE1	1.85	0.42
44:FC:278:ALA:HA	44:FC:369:ALA:HB2	2.01	0.42
45:FD:245:GLN:CG	45:FD:353:ILE:HG21	2.47	0.42
45:FD:257:LEU:HD13	45:FD:312:THR:HG21	2.00	0.42
45:FD:274:THR:CB	45:FD:282:ARG:HD3	2.50	0.42
45:FD:290:THR:HG23	45:FD:291:GLN:N	2.34	0.42
44:FE:35:GLN:OE1	44:FE:60:LYS:HB3	2.19	0.42
44:FE:202:VAL:HG12	44:FE:203:MET:N	2.35	0.42
44:FG:97:GLU:OE2	45:FH:251:ARG:NH2	2.52	0.42
44:FG:242:LEU:HD21	44:FG:251:ASP:HB3	2.02	0.42
44:FG:298:PRO:CB	44:FG:308:ARG:HH12	2.32	0.42
45:FH:42:LEU:HA	45:FH:45:GLU:OE2	2.19	0.42
45:FH:163:ILE:HD12	45:FH:163:ILE:HA	1.90	0.42
45:FH:332:ASN:O	45:FH:336:LYS:HG2	2.19	0.42
44:FI:267:PHE:CE2	44:FI:388:PHE:HZ	2.37	0.42
45:FJ:117:LEU:HA	45:FJ:120:VAL:CG1	2.49	0.42
44:FK:144:GLY:N	46:FK:501:GTP:O2G	2.52	0.42
45:FL:204:ASN:ND2	48:FL:501:GDP:HN22	2.18	0.42
44:FM:97:GLU:OE1	45:FN:131:GLN:NE2	2.49	0.42
45:FN:49:VAL:CG1	45:FN:241:ARG:HG2	2.45	0.42
45:FN:183:TYR:OH	45:FN:388:MET:HG2	2.19	0.42
45:FN:308:GLY:O	45:FN:340:TYR:HB3	2.18	0.42
45:GB:215:LEU:HA	45:GB:275:SER:CA	2.50	0.42
44:GC:23:LEU:CD1	44:GC:361:THR:HG23	2.49	0.42
44:GC:118:CYS:SG	44:GC:153:LEU:HD11	2.59	0.42
44:GC:335:ILE:HD12	44:GC:335:ILE:H	1.84	0.42
45:GD:134:GLN:CB	45:GD:165:GLU:HB2	2.50	0.42
44:GE:23:LEU:O	44:GE:27:GLU:HG3	2.20	0.42
44:GE:222:PRO:HG2	45:GF:324:LYS:CD	2.47	0.42
44:GE:325:PRO:HB2	45:GH:222:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GG:326:LYS:HD3	45:GJ:212:PHE:CZ	2.55	0.42
44:GK:91:GLN:CB	44:GK:121:ARG:HD2	2.49	0.42
44:GK:98:ASP:OD1	44:GK:145:THR:HG21	2.20	0.42
45:GL:284:LEU:HD12	45:GL:362:LYS:HZ1	1.84	0.42
44:GM:71:GLU:OE2	44:GM:72:PRO:HD2	2.19	0.42
44:GM:296:PHE:HD2	44:GM:335:ILE:HD12	1.85	0.42
44:GM:409:VAL:HG13	44:GM:413:MET:O	2.19	0.42
45:GN:9:GLY:HA2	45:GN:66:MET:HG3	2.01	0.42
45:HB:163:ILE:O	45:HB:163:ILE:HG13	2.20	0.42
44:HC:11:GLN:CG	44:HC:74:VAL:HG11	2.49	0.42
45:HD:143:THR:HG22	48:HD:501:GDP:O2B	2.20	0.42
44:HE:114:ILE:O	44:HE:114:ILE:HG22	2.19	0.42
44:HE:174:SER:HB3	44:HE:207:GLU:HB2	2.01	0.42
45:HF:7:ILE:HB	45:HF:135:ILE:HD13	2.02	0.42
45:HF:180:VAL:O	45:HF:180:VAL:HG22	2.19	0.42
45:HF:276:ARG:HD3	45:HF:276:ARG:HA	1.83	0.42
45:HF:350:LYS:HG3	45:HF:351:SER:N	2.34	0.42
44:HG:176:GLN:HG2	44:HG:177:VAL:N	2.34	0.42
44:HG:271:SER:OG	44:HG:301:MET:HA	2.20	0.42
45:HH:3:GLU:HG3	45:HH:62:ARG:HH12	1.85	0.42
44:HI:98:ASP:HB3	45:HJ:249:ASP:OD2	2.19	0.42
44:HI:254:GLU:O	44:HI:255:PHE:HD1	2.03	0.42
44:HK:14:ILE:HD12	44:HK:14:ILE:H	1.85	0.42
44:HK:105:ARG:HA	44:HK:109:THR:OG1	2.19	0.42
45:HL:215:LEU:CD2	45:HL:273:LEU:HB3	2.50	0.42
44:HM:276:ILE:HD11	44:HM:280:LYS:HB3	2.02	0.42
44:IA:421:ALA:HA	44:IA:424:ASP:HB2	2.00	0.42
45:IB:303:ALA:HB2	45:IB:377:MET:HE2	2.02	0.42
44:IC:183:GLU:HA	44:IC:186:ASN:OD1	2.20	0.42
44:IC:312:TYR:HD1	44:IC:381:SER:HB2	1.84	0.42
45:ID:391:ARG:HA	45:ID:391:ARG:HH11	1.84	0.42
44:IG:107:HIS:C	44:IG:107:HIS:ND1	2.73	0.42
44:IG:292:THR:HG21	44:IG:331:SER:CB	2.49	0.42
45:IH:86:ARG:HD3	44:JE:284:GLU:OE2	2.19	0.42
44:II:181:VAL:HG12	45:IJ:347:ASN:O	2.19	0.42
44:II:339:ARG:O	44:II:339:ARG:HG3	2.18	0.42
44:IK:60:LYS:NZ	44:IK:86:LEU:HA	2.34	0.42
44:IK:130:THR:O	44:IK:130:THR:HG22	2.19	0.42
45:IL:213:ARG:HD3	45:IL:297:LYS:HE3	2.01	0.42
45:IL:221:THR:O	45:IL:224:ASP:N	2.51	0.42
44:IM:2:ARG:NE	44:IM:51:THR:HG1	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:13:GLY:HA2	44:IM:16:VAL:CG1	2.49	0.42
44:IM:167:LEU:HA	44:IM:200:VAL:O	2.18	0.42
44:IM:198:THR:HB	44:IM:266:HIS:CE1	2.53	0.42
44:JA:417:GLU:O	44:JA:420:GLU:HG2	2.19	0.42
45:JB:330:MET:C	45:JB:333:VAL:HG12	2.40	0.42
44:JC:55:GLU:HG3	44:JC:57:GLY:H	1.85	0.42
44:JC:276:ILE:HD12	44:JC:276:ILE:HA	1.94	0.42
45:JD:130:LEU:HD22	45:JD:133:PHE:CE1	2.38	0.42
45:JD:133:PHE:CD2	45:JD:155:VAL:HG21	2.54	0.42
45:JD:375:GLN:HG3	45:JD:376:GLU:OE1	2.19	0.42
44:JE:103:PHE:N	44:JE:408:TYR:HE2	2.17	0.42
44:JE:247:ALA:HB1	45:JH:222:TYR:CE2	2.53	0.42
44:JE:305:CYS:SG	44:JE:384:ILE:HA	2.59	0.42
44:JE:370:LYS:HE2	44:JE:370:LYS:HB3	1.89	0.42
45:JF:110:ALA:O	45:JF:113:ILE:HG22	2.19	0.42
45:JF:342:VAL:HG21	45:JF:344:TRP:NE1	2.34	0.42
45:JF:362:LYS:HG3	45:JF:363:MET:N	2.35	0.42
45:JH:227:HIS:O	45:JH:230:SER:HB3	2.18	0.42
45:JH:372:THR:HG22	45:JH:422:TYR:CE1	2.54	0.42
44:JI:354:GLY:O	44:JI:355:ILE:HD13	2.19	0.42
44:JK:23:LEU:HD11	44:JK:361:THR:CG2	2.47	0.42
44:JK:119:LEU:HD21	44:JK:156:ARG:HG2	2.02	0.42
44:JK:417:GLU:O	44:JK:420:GLU:N	2.51	0.42
45:JN:245:GLN:CD	45:JN:353:ILE:HG21	2.40	0.42
44:KA:183:GLU:O	44:KA:186:ASN:OD1	2.37	0.42
45:KB:31:ASP:OD2	45:KB:35:THR:HB	2.19	0.42
45:KB:257:LEU:O	45:KB:266:PHE:HZ	2.02	0.42
44:KC:277:SER:O	44:KC:281:ALA:HB2	2.20	0.42
45:KD:248:SER:O	45:KD:248:SER:OG	2.34	0.42
44:KE:19:ALA:O	44:KE:22:GLU:HB3	2.20	0.42
44:KE:169:PHE:CD1	44:KE:202:VAL:HB	2.55	0.42
44:KE:243:ARG:HG3	44:KE:244:PHE:CE2	2.55	0.42
45:KF:204:ASN:O	45:KF:207:LEU:N	2.52	0.42
44:KG:169:PHE:CE1	44:KG:202:VAL:HG21	2.55	0.42
44:KG:250:VAL:HG13	44:KG:255:PHE:CE1	2.54	0.42
45:KH:32:PRO:HG3	45:KH:81:PHE:HE1	1.84	0.42
45:KH:206:ALA:O	45:KH:210:ILE:HG13	2.20	0.42
45:KH:213:ARG:NH1	45:KH:214:THR:HG22	2.16	0.42
45:KH:299:MET:HE3	45:KH:305:PRO:HG3	2.02	0.42
44:KI:26:LEU:HD23	44:KI:26:LEU:O	2.20	0.42
44:KI:152:LEU:HA	44:KI:155:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KI:332:ILE:HD12	44:KI:332:ILE:H	1.85	0.42
45:KJ:275:SER:OG	45:KJ:278:SER:HB3	2.20	0.42
45:KL:2:ARG:HB2	45:KL:131:GLN:CG	2.49	0.42
45:KL:117:LEU:HD21	45:KL:154:LYS:HZ2	1.82	0.42
45:KN:8:GLN:NE2	45:KN:65:LEU:HD21	2.34	0.42
45:KN:242:PHE:CD2	45:KN:356:ILE:HG13	2.55	0.42
45:KN:257:LEU:HD21	45:KN:314:SER:CB	2.50	0.42
45:KN:304:ASP:OD1	45:KN:305:PRO:HD2	2.19	0.42
44:LA:288:VAL:O	44:LA:291:ILE:HG12	2.19	0.42
45:LB:415:MET:CE	45:LB:419:VAL:HG21	2.49	0.42
44:LC:200:VAL:HG12	44:LC:201:ALA:N	2.34	0.42
45:LD:68:LEU:HB3	45:LD:143:THR:OG1	2.19	0.42
45:LD:268:ILE:CG2	45:LD:368:VAL:HG22	2.40	0.42
45:LD:284:LEU:C	45:LD:363:MET:HE1	2.40	0.42
44:LE:35:GLN:OE1	44:LE:35:GLN:N	2.53	0.42
45:LF:309:ARG:NH1	45:LF:426:GLN:O	2.52	0.42
44:LG:372:MET:HB2	44:LG:373:ARG:HD2	2.01	0.42
45:LH:67:ASP:OD2	45:LH:72:THR:OG1	2.28	0.42
45:LH:257:LEU:O	45:LH:312:THR:OG1	2.35	0.42
44:LI:326:LYS:HG3	45:LL:212:PHE:HZ	1.83	0.42
45:LJ:172:SER:HB2	45:LJ:174:LYS:HE2	2.01	0.42
44:LK:311:LYS:HD3	44:LK:342:GLN:HG3	2.02	0.42
44:LM:288:VAL:HA	44:LM:291:ILE:CD1	2.50	0.42
45:LN:243:PRO:O	45:LN:355:ASP:HB2	2.20	0.42
44:MA:7:ILE:HD11	44:MA:122:ILE:HD12	2.01	0.42
44:MA:147:SER:O	44:MA:151:SER:N	2.45	0.42
44:MA:217:LEU:HD22	44:MA:367:ASP:HB3	2.02	0.42
44:MA:268:MET:HB3	44:MA:380:ASN:HB2	2.00	0.42
44:MC:362:VAL:HG22	44:MC:363:VAL:N	2.35	0.42
45:MD:52:ASN:CG	45:MD:62:ARG:HH11	2.22	0.42
45:MD:314:SER:HB2	45:MD:350:LYS:HB3	2.01	0.42
45:MD:330:MET:O	45:MD:333:VAL:HG12	2.20	0.42
44:ME:7:ILE:HG23	44:ME:66:VAL:HG23	2.01	0.42
45:MF:101:TRP:HE1	45:MF:105:HIS:CD2	2.37	0.42
44:MG:261:PRO:HB3	44:MG:346:TRP:HH2	1.83	0.42
44:MI:181:VAL:HG12	45:MJ:256:ASN:HB3	2.02	0.42
45:MJ:236:VAL:HG13	45:MJ:237:THR:HG23	2.02	0.42
44:MK:182:VAL:C	44:MK:184:PRO:HD2	2.39	0.42
44:MM:100:ALA:HB1	45:MN:255:VAL:HG21	2.00	0.42
44:MM:261:PRO:HG2	44:MM:313:MET:CG	2.50	0.42
44:MM:271:SER:HB3	44:MM:301:MET:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MM:332:ILE:O	44:MM:335:ILE:N	2.52	0.42
45:MN:391:ARG:HD2	45:MN:391:ARG:HA	1.84	0.42
45:MN:396:HIS:HA	45:MN:399:THR:OG1	2.19	0.42
44:NA:257:THR:HG21	45:ND:98:GLY:O	2.20	0.42
44:NA:264:ARG:CZ	44:NA:264:ARG:HB3	2.49	0.42
45:NB:165:GLU:HG2	45:NB:198:GLU:O	2.19	0.42
45:ND:192:LEU:HD21	45:ND:199:CYS:CB	2.49	0.42
44:NE:14:ILE:HD12	44:NE:75:ILE:HD13	2.02	0.42
44:NE:254:GLU:O	44:NE:255:PHE:HD1	2.03	0.42
44:NE:311:LYS:N	44:NE:311:LYS:HD2	2.34	0.42
45:NF:99:ASN:HA	45:NF:142:GLY:CA	2.49	0.42
45:NF:204:ASN:OD1	45:NF:205:GLU:N	2.52	0.42
44:NG:398:MET:HE1	45:NH:345:ILE:HD12	1.98	0.42
45:NH:113:ILE:HG12	45:NH:117:LEU:HG	2.00	0.42
44:NI:135:PHE:CE1	44:NI:157:LEU:HD23	2.55	0.42
44:NI:318:MET:SD	44:NI:354:GLY:HA3	2.60	0.42
44:NI:319:TYR:HB3	44:NI:323:VAL:HG11	2.00	0.42
44:NI:403:ALA:HA	45:NJ:260:PHE:HE1	1.81	0.42
45:NJ:35:THR:HG22	45:NJ:36:TYR:N	2.35	0.42
45:NJ:67:ASP:OD2	45:NJ:72:THR:OG1	2.38	0.42
45:NJ:121:ARG:HG3	45:NJ:121:ARG:HH11	1.84	0.42
45:NJ:345:ILE:O	45:NJ:345:ILE:HG13	2.20	0.42
44:NK:53:PHE:CE2	44:NK:63:PRO:HG3	2.55	0.42
45:NL:286:VAL:N	45:NL:287:PRO:CD	2.82	0.42
44:NM:101:ASN:C	44:NM:144:GLY:H	2.22	0.42
44:NM:147:SER:HB2	44:NM:190:SER:HB3	2.01	0.42
44:NM:213:CYS:HA	44:NM:217:LEU:HB3	2.00	0.42
44:NM:255:PHE:O	44:NM:259:LEU:N	2.52	0.42
44:OA:392:ASP:CB	44:OA:425:LEU:HD23	2.44	0.42
45:OB:116:VAL:HG21	45:OB:151:LEU:HD12	2.01	0.42
45:OB:226:ASN:HD21	48:OB:501:GDP:HN1	1.66	0.42
44:OC:132:LEU:HD23	44:OC:132:LEU:C	2.40	0.42
44:OC:217:LEU:HD21	44:OC:275:ILE:CG2	2.49	0.42
44:OC:217:LEU:HD21	44:OC:275:ILE:HG22	2.00	0.42
45:OD:217:LEU:HD11	45:OD:220:PRO:CG	2.49	0.42
44:OE:63:PRO:HG3	44:OE:86:LEU:HD11	2.01	0.42
44:OE:212:ILE:HD13	44:OE:215:ARG:NH2	2.34	0.42
44:OE:311:LYS:HD2	44:OE:342:GLN:HB2	2.01	0.42
44:OG:34:GLY:O	44:OG:60:LYS:HA	2.19	0.42
44:OG:205:ASP:N	44:OG:205:ASP:OD1	2.51	0.42
44:OG:282:TYR:O	44:OG:282:TYR:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OH:164:MET:HE3	45:OH:164:MET:HA	2.01	0.42
44:OI:88:HIS:H	44:OI:91:GLN:NE2	2.17	0.42
44:OI:189:LEU:HD11	44:OI:418:PHE:CE1	2.54	0.42
44:OI:269:LEU:HD23	44:OI:269:LEU:H	1.84	0.42
45:OJ:202:ILE:HG23	45:OJ:207:LEU:HD11	2.01	0.42
44:OK:139:ASN:O	44:OK:170:THR:HG23	2.20	0.42
45:OL:114:ASP:O	45:OL:118:ASP:HB2	2.20	0.42
44:OM:89:PRO:HG3	44:PM:280:LYS:CE	2.49	0.42
44:PA:25:CYS:HG	44:PA:53:PHE:HZ	1.65	0.42
44:PA:141:VAL:CG1	44:PA:173:PRO:HD3	2.48	0.42
45:PB:16:ILE:HD12	45:PB:229:VAL:HG11	2.01	0.42
45:PB:317:PHE:CE2	45:PB:326:VAL:HG22	2.54	0.42
45:PB:377:MET:O	45:PB:381:VAL:HG23	2.18	0.42
44:PC:52:PHE:HZ	44:PC:239:THR:CG2	2.31	0.42
44:PE:9:VAL:HA	44:PE:14:ILE:HD11	2.01	0.42
44:PG:311:LYS:HB2	44:PG:382:THR:HG21	2.02	0.42
45:PH:350:LYS:HB2	45:PH:350:LYS:HE2	1.64	0.42
44:PI:206:ASN:ND2	44:PI:210:TYR:CE2	2.88	0.42
44:PI:209:ILE:HA	44:PI:212:ILE:HG22	2.01	0.42
44:PI:250:VAL:O	44:PI:250:VAL:HG13	2.19	0.42
44:PI:437:ILE:O	44:PI:437:ILE:HG13	2.19	0.42
45:PJ:86:ARG:HG3	45:PJ:88:ASP:H	1.84	0.42
44:PK:137:VAL:CG1	44:PK:168:GLY:HA3	2.47	0.42
44:PK:304:LYS:HG3	44:PK:304:LYS:O	2.19	0.42
45:PL:50:TYR:O	45:PL:62:ARG:HG2	2.20	0.42
44:PM:84:ARG:H	44:PM:84:ARG:HG2	1.65	0.42
44:PM:221:ARG:HD2	45:PN:322:SER:HB3	2.01	0.42
44:PM:344:VAL:HG11	44:PM:346:TRP:CH2	2.54	0.42
44:QA:246:GLY:HA2	44:QA:357:TYR:CE1	2.54	0.42
44:QA:306:ASP:CG	44:QA:308:ARG:HB2	2.39	0.42
45:QB:64:ILE:O	45:QB:65:LEU:HD12	2.19	0.42
44:QC:121:ARG:NH2	44:QC:125:LEU:HD21	2.33	0.42
45:QD:106:TYR:CE2	45:QD:403:MET:HE1	2.54	0.42
44:QE:72:PRO:HG3	44:QE:95:GLY:O	2.19	0.42
45:QF:46:ARG:HD2	45:QF:46:ARG:N	2.33	0.42
45:QF:309:ARG:NH2	45:QF:342:VAL:HG23	2.33	0.42
45:QF:348:ASN:HA	44:QG:181:VAL:CG1	2.49	0.42
44:QG:115:VAL:HG13	44:QG:116:ASP:N	2.35	0.42
44:QG:137:VAL:O	44:QG:169:PHE:N	2.40	0.42
44:QG:145:THR:HG23	44:QG:146:GLY:H	1.82	0.42
45:QH:178:THR:HB	45:QH:181:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:102:ALA:HB3	45:QJ:401:GLU:OE1	2.19	0.42
45:QJ:152:ILE:CD1	45:QJ:164:MET:HE3	2.49	0.42
44:QK:352:LYS:HE3	45:QL:179:VAL:HG13	2.02	0.42
45:QL:24:ILE:HG23	45:QL:25:SER:N	2.33	0.42
45:QL:117:LEU:HD21	45:QL:158:GLU:OE2	2.19	0.42
44:QM:69:ASP:OD2	44:QM:74:VAL:HG21	2.20	0.42
44:QM:317:MET:O	44:QM:353:VAL:HA	2.18	0.42
44:QM:425:LEU:HD23	44:QM:425:LEU:HA	1.92	0.42
45:QN:105:HIS:O	45:QN:110:ALA:HB2	2.18	0.42
45:QN:206:ALA:HB2	45:QN:302:ALA:N	2.34	0.42
45:RB:251:ARG:HH22	44:RC:100:ALA:HB3	1.83	0.42
45:RB:252:LYS:HA	45:RB:255:VAL:HG23	2.01	0.42
44:RC:437:ILE:HG13	44:RC:437:ILE:O	2.18	0.42
44:RE:119:LEU:CD2	44:RE:156:ARG:HD2	2.49	0.42
44:RE:140:SER:HB2	44:RE:171:ILE:HD11	2.00	0.42
44:RE:201:ALA:HB3	44:RE:267:PHE:CE1	2.55	0.42
44:RE:273:ALA:HA	44:RE:274:PRO:C	2.40	0.42
45:RF:36:TYR:OH	45:RF:38:GLY:HA3	2.19	0.42
44:RG:344:VAL:HG12	44:RG:347:CYS:CB	2.49	0.42
45:RH:130:LEU:HD21	45:RH:133:PHE:CZ	2.55	0.42
44:RI:259:LEU:HD21	44:RI:316:SER:N	2.35	0.42
44:RI:269:LEU:HD23	44:RI:269:LEU:H	1.84	0.42
45:RJ:4:ILE:HG22	45:RJ:132:GLY:N	2.35	0.42
45:RJ:252:LYS:HA	44:RK:100:ALA:HB1	2.00	0.42
45:RJ:288:GLU:O	45:RJ:291:GLN:HG3	2.19	0.42
44:RK:2:ARG:HB2	44:RK:133:GLN:HG3	2.01	0.42
44:RK:48:ALA:HB1	44:RK:243:ARG:O	2.19	0.42
44:RK:420:GLU:O	44:RK:423:GLU:N	2.53	0.42
45:RL:235:GLY:HA2	45:RL:238:CYS:HB3	2.01	0.42
45:RL:289:LEU:HB3	45:RL:365:VAL:CG2	2.49	0.42
44:RM:118:CYS:CA	44:RM:121:ARG:HD3	2.43	0.42
45:RN:60:VAL:HG23	45:RN:86:ARG:HG2	2.01	0.42
45:RN:61:PRO:HG2	45:RN:84:LEU:HB3	2.01	0.42
45:RN:105:HIS:NE2	45:RN:150:LEU:HD12	2.35	0.42
45:RN:254:ALA:HA	45:RN:258:ILE:HD13	1.98	0.42
45:RN:329:GLN:O	45:RN:333:VAL:HG23	2.19	0.42
45:RN:381:VAL:HG23	45:RN:382:ALA:N	2.34	0.42
45:SB:321:MET:HE1	45:SB:363:MET:SD	2.58	0.42
44:SE:88:HIS:HB3	44:SE:91:GLN:HG2	2.01	0.42
45:SF:271:ALA:HB1	45:SF:272:PRO:HA	2.01	0.42
45:SF:351:SER:HB2	44:SG:179:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:4:VAL:CG1	44:SG:52:PHE:CE2	3.03	0.42
44:SG:101:ASN:HA	44:SG:144:GLY:CA	2.35	0.42
44:SG:102:ASN:HB3	44:SG:105:ARG:HB2	2.02	0.42
44:SG:254:GLU:HA	44:SG:257:THR:HG21	2.01	0.42
44:SI:182:VAL:C	44:SI:184:PRO:HD2	2.39	0.42
45:SJ:36:TYR:CE2	45:SJ:44:LEU:HD21	2.54	0.42
44:SK:326:LYS:HZ1	45:SL:220:PRO:N	2.16	0.42
45:SN:66:MET:HA	45:SN:91:VAL:CG2	2.37	0.42
44:TA:272:TYR:HD1	44:TA:375:VAL:O	2.01	0.42
45:TB:365:VAL:HG23	45:TB:365:VAL:O	2.18	0.42
44:TC:91:GLN:HB3	44:TC:121:ARG:HD2	2.01	0.42
45:TD:40:SER:OG	45:TD:43:GLN:HG3	2.19	0.42
45:TD:113:ILE:HD11	45:TD:151:LEU:HD13	2.01	0.42
45:TD:213:ARG:O	45:TD:216:LYS:HG2	2.20	0.42
44:TE:326:LYS:HA	44:TE:329:ASN:HB2	2.01	0.42
44:TE:373:ARG:O	44:TE:374:ALA:HB2	2.19	0.42
45:TF:398:TYR:HA	45:TF:403:MET:HE2	2.01	0.42
44:TG:165:SER:O	44:TG:166:LYS:HG3	2.19	0.42
45:TH:49:VAL:HG12	45:TH:50:TYR:CE2	2.54	0.42
45:TH:178:THR:O	45:TH:178:THR:HG23	2.18	0.42
45:TH:286:VAL:CG1	45:TH:329:GLN:HG3	2.49	0.42
44:TI:174:SER:CB	44:TI:207:GLU:HG3	2.46	0.42
44:TI:319:TYR:HE1	44:TI:375:VAL:HG23	1.83	0.42
44:TK:5:ILE:HD12	44:TK:135:PHE:HE1	1.83	0.42
44:TK:175:PRO:HB3	44:TK:390:ARG:CD	2.49	0.42
44:TK:186:ASN:OD1	44:TK:187:SER:N	2.52	0.42
45:TL:99:ASN:O	45:TL:180:VAL:HG11	2.20	0.42
44:TM:141:VAL:HG12	44:TM:172:TYR:HA	1.97	0.42
44:UA:166:LYS:O	44:UA:199:ASP:HB2	2.19	0.42
44:UA:208:ALA:HB3	44:UA:302:MET:HE3	2.01	0.42
44:UA:270:SER:CA	44:UA:378:ILE:HA	2.49	0.42
45:UB:47:ILE:HD13	45:UB:59:TYR:HE2	1.83	0.42
45:UB:166:THR:HG21	45:UB:196:ALA:CB	2.50	0.42
44:UC:20:CYS:O	44:UC:23:LEU:HB3	2.19	0.42
44:UC:25:CYS:O	44:UC:30:ILE:N	2.52	0.42
44:UC:213:CYS:CA	44:UC:217:LEU:HD12	2.42	0.42
44:UC:388:PHE:O	44:UC:392:ASP:N	2.25	0.42
45:UD:16:ILE:HD11	48:UD:501:GDP:HN22	1.84	0.42
45:UD:173:PRO:CG	45:UD:380:ARG:HB2	2.48	0.42
45:UD:286:VAL:HG22	45:UD:321:MET:SD	2.59	0.42
45:UD:334:GLN:HA	45:UD:341:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UE:122:ILE:HA	44:UE:125:LEU:HD12	2.02	0.42
44:UE:189:LEU:CD2	44:UE:421:ALA:HB2	2.49	0.42
44:UE:278:ALA:N	44:UE:369:ALA:HB2	2.35	0.42
45:UF:331:LEU:HD12	45:UF:334:GLN:OE1	2.19	0.42
45:UF:332:ASN:HA	45:UF:336:LYS:HZ3	1.83	0.42
44:UG:287:SER:O	44:UG:291:ILE:HG23	2.20	0.42
45:UH:8:GLN:NE2	45:UH:65:LEU:HD21	2.34	0.42
45:UH:324:LYS:CE	44:UI:222:PRO:HG2	2.48	0.42
44:UI:13:GLY:HA2	44:UI:16:VAL:CG2	2.42	0.42
44:UI:185:TYR:HE1	44:UI:398:MET:HB2	1.84	0.42
44:UI:205:ASP:CG	44:UI:303:ALA:HA	2.40	0.42
45:UJ:110:ALA:HA	45:UJ:113:ILE:HG22	2.01	0.42
45:UJ:235:GLY:CA	45:UJ:366:THR:HG21	2.46	0.42
44:UK:183:GLU:CD	44:UK:184:PRO:HD3	2.40	0.42
44:UM:201:ALA:HB3	44:UM:266:HIS:O	2.19	0.42
44:VA:146:GLY:O	44:VA:150:GLY:N	2.52	0.42
44:VA:174:SER:HB3	44:VA:207:GLU:OE1	2.19	0.42
44:VA:356:ASN:OD1	44:VA:357:TYR:N	2.53	0.42
45:VB:22:GLU:O	45:VB:25:SER:OG	2.37	0.42
44:VC:209:ILE:HG22	44:VC:227:LEU:HD22	2.02	0.42
45:VD:58:ARG:HG3	45:VD:59:TYR:N	2.33	0.42
45:VD:337:ASN:HB3	45:VD:340:TYR:CD2	2.54	0.42
44:VE:114:ILE:O	44:VE:114:ILE:HG22	2.19	0.42
45:VF:208:TYR:O	45:VF:212:PHE:HD2	2.02	0.42
44:VG:435:VAL:HA	45:VJ:391:ARG:NH2	2.34	0.42
45:VH:391:ARG:HA	45:VH:391:ARG:HD2	1.87	0.42
44:VI:10:GLY:O	44:VI:14:ILE:HG13	2.20	0.42
44:VI:103:PHE:CD2	44:VI:413:MET:HE1	2.54	0.42
44:VI:117:LEU:O	44:VI:120:ASP:HB2	2.19	0.42
44:VI:267:PHE:HD2	44:VI:388:PHE:HE2	1.66	0.42
45:VJ:12:CYS:O	45:VJ:16:ILE:HG12	2.19	0.42
45:VJ:206:ALA:C	45:VJ:209:ASP:H	2.22	0.42
45:VL:7:ILE:HB	45:VL:135:ILE:CD1	2.49	0.42
44:VM:237:SER:OG	44:VM:320:ARG:HD2	2.20	0.42
45:VN:178:THR:HB	45:VN:181:GLU:HG3	2.02	0.42
44:WA:32:PRO:HB3	44:WA:83:TYR:HD1	1.84	0.42
44:WA:205:ASP:OD2	44:WA:303:ALA:HA	2.20	0.42
45:WB:101:TRP:CD2	45:WB:187:LEU:HD13	2.54	0.42
45:WB:103:LYS:HA	45:WB:107:THR:HG1	1.83	0.42
45:WB:107:THR:HG21	45:WB:401:GLU:HB3	2.00	0.42
45:WB:284:LEU:HB2	45:WB:362:LYS:CE	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:24:PHE:CZ	44:WC:52:PHE:HE1	2.37	0.42
44:WC:256:GLN:O	45:WF:397:TRP:NE1	2.51	0.42
45:WD:270:PHE:CD2	45:WD:273:LEU:HD11	2.54	0.42
45:WD:374:ILE:HD11	45:WD:422:TYR:CZ	2.55	0.42
44:WE:52:PHE:HE2	44:WE:243:ARG:NE	2.18	0.42
44:WE:311:LYS:O	44:WE:312:TYR:HD1	2.02	0.42
44:WG:181:VAL:HG21	45:WH:256:ASN:O	2.20	0.42
44:WG:195:LEU:HD12	44:WG:266:HIS:NE2	2.34	0.42
45:WH:44:LEU:HD23	45:WH:44:LEU:HA	1.82	0.42
45:WH:306:ARG:HA	45:WH:340:TYR:HE1	1.84	0.42
45:WJ:320:ARG:O	45:WJ:363:MET:HE1	2.19	0.42
44:WM:2:ARG:HB2	44:WM:133:GLN:CG	2.50	0.42
44:WM:48:ALA:CB	44:WM:243:ARG:HB2	2.49	0.42
44:WM:356:ASN:CG	44:WM:357:TYR:H	2.23	0.42
5:0D:6:ARG:NE	45:CB:45:GLU:HG2	2.34	0.42
5:0D:35:LYS:HD2	44:DC:84:ARG:HH21	1.85	0.42
15:0V:38:PHE:CZ	45:MN:328:GLU:HB3	2.54	0.42
2:1A:59:ALA:HB1	45:MF:1:MET:HE1	2.01	0.42
9:1H:140:PHE:HZ	44:HI:370:LYS:O	2.02	0.42
21:1K:127:ARG:HD2	45:GF:35:THR:HG21	2.00	0.42
22:1L:153:LEU:HD12	45:CH:362:LYS:NZ	2.24	0.42
22:1L:545:GLU:CD	44:BE:279:GLU:HG2	2.39	0.42
26:1R:101:ARG:HD2	44:AC:41:THR:HG21	2.00	0.42
26:1R:454:ARG:CZ	45:FD:219:THR:HB	2.50	0.42
27:1W:173:PHE:HZ	45:LD:228:LEU:HD21	1.84	0.42
31:2H:195:ASP:HB3	45:AD:356:ILE:HG23	2.01	0.42
32:2I:129:ILE:O	44:FC:96:LYS:CE	2.66	0.42
22:2L:753:ARG:CG	45:BL:362:LYS:NZ	2.81	0.42
26:2R:505:TYR:CG	44:EG:39:ASP:HB3	2.54	0.42
28:3C:228:ALA:HB2	45:KB:285:THR:CG2	2.44	0.42
32:3I:202:GLY:HA3	44:GK:338:LYS:HD2	2.00	0.42
15:3V:24:ARG:C	44:MA:430:LYS:HA	2.39	0.42
15:3V:99:PRO:HG2	44:LA:409:VAL:CG1	2.40	0.42
16:3X:135:ARG:NH2	45:ML:276:ARG:HD2	2.34	0.42
28:4C:1:MET:SD	45:LN:320:ARG:NH1	2.93	0.42
34:4F:122:TRP:HB3	45:IL:356:ILE:CD1	2.39	0.42
11:4Q:116:PRO:HG3	44:AI:263:PRO:CG	2.50	0.42
35:4R:85:TRP:CE2	44:AE:372:MET:HE3	2.54	0.42
37:5A:113:VAL:CG1	44:NA:370:LYS:HZ2	2.33	0.42
37:5D:37:ASP:O	44:KK:264:ARG:CB	2.58	0.42
38:5F:66:THR:H	45:NF:35:THR:HG21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5H:74:ASP:HB2	38:5H:104:MET:HA	2.02	0.42
39:5K:77:LYS:HG2	39:5K:81:LEU:HD23	2.01	0.42
35:5R:43:ASN:O	35:5R:44:TYR:HB2	2.20	0.42
35:5R:278:TYR:CE2	35:5R:331:PRO:HD3	2.54	0.42
35:5R:282:ASP:OD1	35:5R:284:THR:OG1	2.31	0.42
35:5R:546:ASP:O	35:5R:550:VAL:HG13	2.19	0.42
41:6G:185:TYR:HE2	44:UG:116:ASP:O	2.01	0.42
35:6R:465:ILE:HG22	45:FN:277:GLY:HA2	2.01	0.42
35:6R:485:TYR:CE1	35:6R:496:ILE:HD12	2.54	0.42
35:6R:511:TYR:CD1	44:EM:40:LYS:CE	3.02	0.42
35:7R:71:LYS:HZ2	35:7R:72:ALA:H	1.65	0.42
35:7R:396:ASP:OD2	45:EB:217:LEU:HB2	2.20	0.42
35:7R:595:ASP:OD2	35:7R:597:ASN:ND2	2.53	0.42
42:8L:35:UNK:HA	44:SM:279:GLU:OE2	2.19	0.42
43:8P:102:UNK:O	43:8P:106:UNK:N	2.53	0.42
44:AA:7:ILE:HG23	44:AA:137:VAL:HG23	2.01	0.42
44:AA:185:TYR:HE2	44:AA:404:PHE:HB2	1.84	0.42
45:AB:54:ALA:C	45:BB:283:ALA:HB2	2.40	0.42
45:AB:143:THR:OG1	45:AB:147:MET:HE3	2.20	0.42
44:AC:7:ILE:HD13	44:AC:66:VAL:HG12	2.01	0.42
44:AC:14:ILE:HD12	44:AC:14:ILE:H	1.85	0.42
44:AC:188:ILE:HA	44:AC:191:THR:CG2	2.50	0.42
44:AC:209:ILE:CG2	44:AC:227:LEU:CD1	2.97	0.42
45:AD:117:LEU:CD2	45:AD:154:LYS:NZ	2.83	0.42
45:AD:143:THR:HG22	48:AD:501:GDP:O1B	2.20	0.42
45:AD:229:VAL:CG1	45:AD:233:MET:HE2	2.44	0.42
45:AD:354:CYS:SG	45:AD:355:ASP:N	2.93	0.42
44:AE:102:ASN:O	44:AE:105:ARG:N	2.47	0.42
45:AF:1:MET:C	45:AF:2:ARG:HG2	2.40	0.42
45:AH:318:ARG:NH1	45:AH:358:PRO:HG3	2.35	0.42
44:AI:174:SER:OG	44:AI:207:GLU:HB2	2.19	0.42
44:AK:250:VAL:HG12	44:AK:255:PHE:HE1	1.83	0.42
44:AK:257:THR:HA	45:AN:397:TRP:CH2	2.55	0.42
45:AL:73:MET:HE2	45:AL:92:PHE:HB3	1.97	0.42
44:AM:88:HIS:CG	44:AM:89:PRO:HD2	2.53	0.42
44:BA:62:VAL:HG21	44:CA:283:HIS:O	2.19	0.42
44:BA:104:ALA:HB3	44:BA:411:GLU:CB	2.50	0.42
44:BC:254:GLU:OE1	45:BF:99:ASN:ND2	2.52	0.42
44:BC:292:THR:O	44:BC:295:ALA:HB3	2.20	0.42
45:BD:49:VAL:CB	45:BD:241:ARG:HG2	2.50	0.42
44:BE:209:ILE:HD11	44:BE:231:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BH:362:LYS:O	45:BH:363:MET:HG3	2.20	0.42
44:BI:71:GLU:OE2	45:BJ:2:ARG:NH2	2.52	0.42
44:BI:202:VAL:HA	44:BI:268:MET:O	2.19	0.42
45:BJ:345:ILE:HG23	45:BJ:348:ASN:HB3	2.01	0.42
45:BL:86:ARG:HB3	45:BL:89:ASN:CG	2.40	0.42
45:BL:113:ILE:HG13	45:BL:116:VAL:CG1	2.49	0.42
45:BL:294:PHE:CE2	45:BL:333:VAL:HG21	2.54	0.42
45:BN:68:LEU:HD23	45:BN:97:ALA:CB	2.49	0.42
45:BN:105:HIS:O	45:BN:106:TYR:HD1	2.03	0.42
44:CA:284:GLU:OE2	44:CA:285:GLN:HG2	2.20	0.42
45:CB:201:VAL:HG22	45:CB:266:PHE:O	2.19	0.42
44:CC:247:ALA:HB2	44:CC:357:TYR:OH	2.19	0.42
44:CC:251:ASP:HB3	44:CC:253:THR:HG22	2.01	0.42
44:CC:344:VAL:HG11	44:CC:346:TRP:CE2	2.55	0.42
44:CC:349:THR:CG2	45:CD:179:VAL:HA	2.44	0.42
44:CC:385:ALA:HA	44:CC:388:PHE:HD2	1.84	0.42
45:CD:258:ILE:HD11	45:CD:266:PHE:HZ	1.84	0.42
45:CD:274:THR:HG22	45:CD:282:ARG:HH21	1.85	0.42
44:CE:34:GLY:C	44:CE:60:LYS:HG2	2.40	0.42
44:CG:32:PRO:HB3	44:CG:83:TYR:HD1	1.84	0.42
44:CG:363:VAL:CG2	44:CG:364:PRO:HD2	2.49	0.42
44:CI:243:ARG:H	44:CI:243:ARG:HG2	1.75	0.42
44:CI:268:MET:HG3	44:CI:378:ILE:HG22	2.02	0.42
46:CI:501:GTP:H8	46:CI:501:GTP:O2A	2.03	0.42
44:CK:206:ASN:HB2	44:CK:210:TYR:CZ	2.55	0.42
45:CL:255:VAL:HG21	44:CM:100:ALA:CB	2.48	0.42
45:CN:32:PRO:HB3	45:CN:81:PHE:H	1.85	0.42
44:DA:116:ASP:O	44:DA:119:LEU:N	2.52	0.42
44:DA:192:HIS:CE1	44:DA:421:ALA:HA	2.54	0.42
44:DA:234:VAL:CG2	44:DA:272:TYR:HB2	2.50	0.42
44:DA:311:LYS:HD2	44:DA:342:GLN:HE22	1.85	0.42
45:DB:44:LEU:HD23	45:DB:44:LEU:HA	1.91	0.42
44:DC:19:ALA:HA	44:DC:22:GLU:OE1	2.19	0.42
45:DD:54:ALA:CA	45:ED:283:ALA:HB2	2.42	0.42
45:DD:178:THR:HG22	45:DD:180:VAL:HG12	2.02	0.42
45:DD:263:LEU:HG	45:DD:422:TYR:HD1	1.77	0.42
44:DG:155:GLU:HG2	44:DG:197:HIS:CD2	2.54	0.42
44:DG:199:ASP:C	44:DG:266:HIS:HB2	2.40	0.42
45:DH:7:ILE:O	45:DH:135:ILE:HA	2.18	0.42
45:DH:49:VAL:HG11	45:DH:241:ARG:HG3	2.02	0.42
45:DH:130:LEU:HD21	45:DH:133:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DH:136:THR:CG2	45:DH:233:MET:HE1	2.49	0.42
44:DI:210:TYR:CD1	44:DI:227:LEU:HD21	2.54	0.42
44:DI:348:PRO:HD2	45:DJ:388:MET:HE2	2.01	0.42
45:DJ:14:ASN:O	45:DJ:17:GLY:N	2.52	0.42
45:DJ:137:HIS:CD2	45:DJ:139:LEU:HD21	2.55	0.42
44:DK:212:ILE:CD1	44:DK:300:ASN:HA	2.49	0.42
44:DK:317:MET:HB3	44:DK:377:MET:CB	2.50	0.42
45:DL:12:CYS:HB2	48:DL:501:GDP:C8	2.55	0.42
45:DL:72:THR:HG23	45:DL:73:MET:N	2.34	0.42
44:DM:68:LEU:HD11	44:DM:118:CYS:SG	2.60	0.42
44:DM:272:TYR:HD1	44:DM:376:CYS:HB2	1.84	0.42
44:EA:229:ARG:HG2	44:EA:229:ARG:HH11	1.85	0.42
44:EA:274:PRO:HG2	44:EA:291:ILE:HG22	2.01	0.42
44:EA:311:LYS:HE2	44:EA:342:GLN:OE1	2.19	0.42
44:EA:352:LYS:HA	45:EB:177:ASP:O	2.19	0.42
45:EB:167:PHE:CD1	45:EB:200:MET:HG2	2.55	0.42
45:EB:257:LEU:HB3	45:EB:266:PHE:CE2	2.55	0.42
44:EC:75:ILE:HG22	44:EC:79:ARG:CZ	2.49	0.42
44:EC:103:PHE:HB3	44:EC:408:TYR:HE2	1.83	0.42
45:ED:285:THR:HG22	45:ED:288:GLU:CG	2.39	0.42
44:EE:51:THR:HG21	44:EE:243:ARG:HB3	2.01	0.42
44:EE:184:PRO:O	44:EE:187:SER:HB2	2.20	0.42
44:EE:345:ASP:CB	44:EE:438:GLU:HB3	2.50	0.42
45:EF:18:ALA:HB2	45:EF:76:VAL:HG23	2.00	0.42
45:EF:170:VAL:HG22	45:EF:171:PRO:CD	2.47	0.42
45:EF:348:ASN:C	45:EF:349:ILE:HD12	2.40	0.42
44:EG:288:VAL:HG13	44:EG:289:ALA:N	2.35	0.42
44:EG:296:PHE:HD2	44:EG:335:ILE:HD12	1.83	0.42
45:EH:308:GLY:O	45:EH:309:ARG:HG3	2.20	0.42
44:EI:3:GLU:OE2	44:EI:129:CYS:HB3	2.20	0.42
44:EI:107:HIS:ND1	44:EI:108:TYR:CE1	2.88	0.42
45:EJ:119:VAL:HG13	45:EJ:120:VAL:N	2.35	0.42
45:EJ:260:PHE:HB3	45:EJ:261:PRO:CD	2.44	0.42
44:EK:104:ALA:HB2	44:EK:408:TYR:HD2	1.85	0.42
44:EM:22:GLU:CG	44:EM:83:TYR:HE2	2.32	0.42
44:EM:72:PRO:HA	44:EM:94:SER:OG	2.19	0.42
44:EM:78:VAL:CG1	44:EM:92:LEU:HD21	2.49	0.42
44:EM:170:THR:O	44:EM:204:LEU:HB2	2.19	0.42
44:FA:269:LEU:O	44:FA:269:LEU:HG	2.19	0.42
45:FB:107:THR:HG21	45:FB:401:GLU:HB3	2.01	0.42
45:FD:15:GLN:O	45:FD:18:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:86:ARG:NE	45:GD:281:TYR:HB3	2.34	0.42
45:FD:177:ASP:HB2	48:FD:502:GDP:O3'	2.20	0.42
45:FD:391:ARG:HD2	45:FD:391:ARG:HA	1.75	0.42
44:FE:256:GLN:OE1	45:FH:397:TRP:HZ2	2.03	0.42
45:FF:139:LEU:HG	45:FF:188:SER:OG	2.19	0.42
44:FG:288:VAL:HG11	44:FG:327:ASP:CB	2.45	0.42
45:FH:33:THR:CG2	45:FH:58:ARG:HH22	2.30	0.42
45:FH:396:HIS:CA	45:FH:399:THR:HG22	2.50	0.42
44:FI:19:ALA:CB	44:FI:228:ASN:HB3	2.48	0.42
44:FI:108:TYR:CE2	44:FI:413:MET:HE3	2.55	0.42
44:FI:319:TYR:CE1	44:FI:328:VAL:HG22	2.54	0.42
44:FI:402:ARG:HG2	44:FI:402:ARG:O	2.19	0.42
45:FJ:154:LYS:HE2	45:FJ:154:LYS:HA	2.01	0.42
45:FJ:193:VAL:HA	45:FJ:264:HIS:HE1	1.77	0.42
45:FJ:221:THR:O	45:FJ:224:ASP:N	2.52	0.42
44:FK:66:VAL:HG12	44:FK:121:ARG:HG2	2.02	0.42
44:FM:15:GLN:NE2	45:FN:245:GLN:OE1	2.53	0.42
45:FN:218:THR:HG1	45:FN:219:THR:H	1.67	0.42
44:GA:141:VAL:HG11	44:GA:172:TYR:CD1	2.55	0.42
45:GB:274:THR:HG21	45:GB:279:GLN:CB	2.48	0.42
44:GC:430:LYS:O	44:GC:433:GLU:N	2.52	0.42
45:GD:134:GLN:HA	45:GD:165:GLU:CB	2.48	0.42
45:GF:101:TRP:HB3	45:GF:398:TYR:HE1	1.84	0.42
45:GF:215:LEU:O	45:GF:275:SER:HA	2.20	0.42
45:GF:304:ASP:OD1	45:GF:305:PRO:HD2	2.20	0.42
44:GG:6:SER:O	44:GG:7:ILE:HD13	2.19	0.42
45:GH:53:GLU:O	45:HH:283:ALA:HB2	2.19	0.42
45:GH:287:PRO:HA	45:GH:329:GLN:HE21	1.84	0.42
44:GI:115:VAL:HG22	44:GI:119:LEU:HD23	2.02	0.42
45:GJ:20:PHE:O	45:GJ:23:VAL:HG12	2.19	0.42
44:GK:27:GLU:CD	44:GK:243:ARG:HH22	2.23	0.42
45:GL:101:TRP:CD1	45:GL:101:TRP:C	2.93	0.42
45:GL:113:ILE:O	45:GL:116:VAL:HG12	2.19	0.42
45:GL:290:THR:O	45:GL:293:MET:HG2	2.19	0.42
45:GN:311:LEU:N	45:GN:370:ASN:O	2.53	0.42
44:HC:167:LEU:HD12	44:HC:167:LEU:N	2.34	0.42
45:HD:318:ARG:NH2	45:HD:356:ILE:O	2.53	0.42
44:HE:22:GLU:HG3	44:HE:83:TYR:CZ	2.53	0.42
44:HE:262:TYR:HB3	44:HE:263:PRO:HD2	2.00	0.42
44:HE:286:LEU:N	44:HE:290:GLU:OE2	2.52	0.42
45:HF:4:ILE:HD11	45:HF:50:TYR:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:85:PHE:CD1	45:HH:85:PHE:N	2.86	0.42
45:HH:162:ARG:HE	45:HH:163:ILE:N	2.07	0.42
45:HH:285:THR:HB	45:HH:287:PRO:HD2	2.01	0.42
44:HI:256:GLN:CD	44:HI:256:GLN:H	2.23	0.42
44:HK:102:ASN:OD1	44:HK:105:ARG:HG3	2.19	0.42
44:HK:111:GLY:O	44:HK:114:ILE:HG22	2.19	0.42
45:HL:330:MET:O	45:HL:333:VAL:HG12	2.20	0.42
44:HM:265:ILE:HG12	44:HM:432:TYR:CE1	2.54	0.42
44:IA:170:THR:HG1	44:IA:172:TYR:HH	1.67	0.42
44:IA:230:LEU:CD1	44:IA:275:ILE:HD13	2.49	0.42
45:IB:83:GLN:OE1	45:IB:83:GLN:HA	2.20	0.42
45:IB:167:PHE:CZ	45:IB:233:MET:HE3	2.54	0.42
44:IC:285:GLN:NE2	44:IC:287:SER:HB3	2.34	0.42
44:IC:323:VAL:CG2	44:IC:327:ASP:HB2	2.50	0.42
45:ID:217:LEU:C	45:ID:217:LEU:HD12	2.40	0.42
44:IE:417:GLU:O	44:IE:420:GLU:HG2	2.20	0.42
45:IF:161:ASP:HB2	45:IF:162:ARG:NH2	2.34	0.42
45:IF:207:LEU:HA	45:IF:210:ILE:HD12	2.02	0.42
44:IG:296:PHE:HE1	44:IG:377:MET:HE3	1.85	0.42
45:IH:86:ARG:HH21	45:IH:87:PRO:CD	2.32	0.42
45:IH:143:THR:HG22	48:IH:502:GDP:PB	2.59	0.42
45:IH:193:VAL:HA	45:IH:264:HIS:CE1	2.55	0.42
45:IH:318:ARG:HG2	45:IH:358:PRO:HD3	2.01	0.42
45:IJ:53:GLU:HG3	45:IJ:54:ALA:N	2.34	0.42
45:IJ:285:THR:H	45:IJ:288:GLU:CG	2.33	0.42
44:IK:201:ALA:HB3	44:IK:267:PHE:CE1	2.54	0.42
44:IK:285:GLN:NE2	44:IK:287:SER:HB3	2.34	0.42
44:IK:344:VAL:HG11	44:IK:346:TRP:NE1	2.34	0.42
44:IK:404:PHE:CE1	45:IL:259:PRO:HA	2.55	0.42
44:IM:88:HIS:CE1	44:IM:89:PRO:HD2	2.55	0.42
44:IM:174:SER:OG	44:IM:207:GLU:HG2	2.19	0.42
44:IM:317:MET:HE3	44:IM:375:VAL:HG21	2.01	0.42
45:IN:34:GLY:O	45:IN:58:ARG:HA	2.19	0.42
45:IN:235:GLY:HA2	45:IN:238:CYS:HB3	2.01	0.42
44:JA:195:LEU:HD23	44:JA:195:LEU:C	2.40	0.42
45:JB:45:GLU:O	45:JB:46:ARG:NH1	2.42	0.42
45:JB:62:ARG:O	45:JB:62:ARG:HG3	2.19	0.42
45:JB:167:PHE:CG	45:JB:233:MET:HE2	2.53	0.42
44:JC:109:THR:HB	44:JC:411:GLU:OE2	2.19	0.42
44:JC:320:ARG:HH22	44:JC:360:PRO:CB	2.32	0.42
44:JC:348:PRO:HB2	45:JF:384:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:392:ASP:OD2	44:JC:422:ARG:NH1	2.52	0.42
44:JE:21:TRP:CH2	44:JE:63:PRO:HB3	2.54	0.42
44:JE:70:LEU:HD12	44:JE:145:THR:CB	2.50	0.42
45:JF:45:GLU:HG3	45:JF:46:ARG:HG2	2.02	0.42
44:JG:285:GLN:O	44:JG:286:LEU:CB	2.67	0.42
45:JH:65:LEU:HD22	45:JH:90:PHE:HE1	1.82	0.42
45:JH:72:THR:OG1	45:JH:73:MET:SD	2.78	0.42
44:JI:311:LYS:O	44:JI:381:SER:HB3	2.19	0.42
44:JI:348:PRO:HD2	45:JL:388:MET:CE	2.50	0.42
45:JJ:150:LEU:O	45:JJ:154:LYS:HG2	2.19	0.42
45:JJ:170:VAL:HG22	45:JJ:171:PRO:HD2	2.00	0.42
44:JK:214:ARG:HG3	44:JK:220:GLU:OE1	2.19	0.42
45:JL:391:ARG:HH11	45:JL:391:ARG:HG3	1.84	0.42
44:JM:221:ARG:HH11	45:JN:325:GLU:CD	2.17	0.42
44:JM:271:SER:HB3	44:JM:377:MET:HE3	2.01	0.42
45:JN:284:LEU:HB2	45:JN:362:LYS:HZ1	1.83	0.42
44:KA:60:LYS:HE2	44:KA:62:VAL:CG2	2.49	0.42
44:KA:153:LEU:O	44:KA:157:LEU:HG	2.19	0.42
44:KC:272:TYR:HD2	44:KC:275:ILE:HD11	1.85	0.42
45:KD:178:THR:O	45:KD:181:GLU:HB3	2.19	0.42
45:KD:330:MET:HE1	45:KD:349:ILE:HD13	1.96	0.42
44:KE:97:GLU:HA	45:KF:2:ARG:HH22	1.85	0.42
44:KE:156:ARG:CZ	44:KE:156:ARG:HB3	2.50	0.42
45:KF:103:LYS:O	45:KF:108:GLU:HB2	2.20	0.42
45:KF:229:VAL:O	45:KF:233:MET:HG3	2.19	0.42
45:KH:113:ILE:HA	45:KH:116:VAL:HG12	2.01	0.42
45:KH:165:GLU:O	45:KH:166:THR:HG23	2.19	0.42
45:KH:175:VAL:HG23	45:KH:175:VAL:O	2.19	0.42
44:KI:372:MET:C	44:KI:373:ARG:HD3	2.40	0.42
45:KJ:170:VAL:HG13	45:KJ:170:VAL:O	2.19	0.42
44:KK:235:ILE:O	44:KK:239:THR:HG22	2.19	0.42
44:KK:268:MET:HE1	44:KK:379:SER:HA	2.02	0.42
44:KK:270:SER:HB2	44:KK:377:MET:O	2.19	0.42
45:KL:251:ARG:O	45:KL:254:ALA:N	2.53	0.42
44:KM:308:ARG:HD2	44:NM:282:TYR:HE1	1.81	0.42
44:KM:419:SER:O	44:KM:423:GLU:HG3	2.20	0.42
45:KN:321:MET:SD	45:KN:363:MET:HG2	2.60	0.42
44:LA:56:THR:HG22	44:LA:60:LYS:O	2.19	0.42
44:LA:296:PHE:HE1	44:LA:377:MET:HE1	1.83	0.42
44:LA:315:CYS:HG	44:LA:351:PHE:HE1	1.66	0.42
44:LC:97:GLU:N	44:LC:97:GLU:OE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LD:66:MET:SD	45:LD:147:MET:SD	3.17	0.42
45:LD:320:ARG:HH12	45:LD:357:PRO:CD	2.32	0.42
45:LD:362:LYS:HD2	45:LD:362:LYS:O	2.19	0.42
44:LE:183:GLU:N	44:LE:184:PRO:CD	2.81	0.42
44:LE:216:ASN:HA	44:LE:280:LYS:HZ1	1.84	0.42
45:LF:204:ASN:ND2	48:LF:501:GDP:O2'	2.52	0.42
45:LF:268:ILE:HD11	45:LF:300:MET:HE1	2.02	0.42
44:LG:136:LEU:HD23	44:LG:235:ILE:HD11	2.01	0.42
45:LH:4:ILE:HG22	45:LH:131:GLN:HB3	2.02	0.42
45:LH:217:LEU:CD1	45:LH:220:PRO:HG3	2.49	0.42
45:LH:239:CYS:HB2	45:LH:248:SER:H	1.85	0.42
44:LI:72:PRO:CG	45:LJ:1:MET:HE1	2.46	0.42
44:LI:267:PHE:HB3	44:LI:384:ILE:CD1	2.50	0.42
45:LJ:113:ILE:CD1	45:LJ:150:LEU:HB3	2.49	0.42
45:LJ:187:LEU:HD11	45:LJ:408:PHE:HE1	1.83	0.42
45:LJ:313:ALA:HB1	45:LJ:367:PHE:CZ	2.55	0.42
45:LL:21:TRP:O	45:LL:24:ILE:HG22	2.19	0.42
44:LM:21:TRP:CE3	44:LM:24:PHE:HD2	2.38	0.42
44:LM:256:GLN:CD	44:LM:257:THR:HG23	2.40	0.42
45:LN:323:THR:HG23	45:LN:324:LYS:N	2.35	0.42
44:MA:149:LEU:O	44:MA:153:LEU:HD23	2.19	0.42
45:MB:91:VAL:O	45:MB:91:VAL:HG23	2.19	0.42
45:MB:308:GLY:HA3	45:MB:373:ALA:HA	2.02	0.42
44:MC:284:GLU:HG3	44:MC:286:LEU:HD21	1.95	0.42
45:MD:9:GLY:CA	45:MD:66:MET:HG3	2.49	0.42
45:MD:186:THR:OG1	45:MD:415:MET:CE	2.68	0.42
45:MF:1:MET:C	45:MF:2:ARG:HG2	2.39	0.42
45:MF:217:LEU:HD11	45:MF:220:PRO:CA	2.50	0.42
44:MG:119:LEU:HD21	44:MG:153:LEU:HD23	2.01	0.42
44:MI:7:ILE:O	44:MI:137:VAL:HA	2.19	0.42
44:MI:281:ALA:O	44:MI:286:LEU:HD21	2.19	0.42
44:MK:145:THR:HG23	44:MK:146:GLY:N	2.34	0.42
44:MK:256:GLN:O	45:MN:397:TRP:CZ2	2.72	0.42
45:ML:68:LEU:HG	45:ML:143:THR:OG1	2.19	0.42
44:MM:104:ALA:CB	44:MM:411:GLU:HB2	2.49	0.42
44:MM:407:TRP:CZ3	45:MN:255:VAL:HA	2.54	0.42
44:MM:422:ARG:NH2	44:MM:425:LEU:HB3	2.35	0.42
45:MN:254:ALA:HA	45:MN:258:ILE:CD1	2.50	0.42
44:NA:14:ILE:HG21	44:NA:74:VAL:CB	2.46	0.42
44:NA:328:VAL:HG13	44:NA:329:ASN:N	2.33	0.42
45:NB:64:ILE:HG13	45:NB:89:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NB:164:MET:HE3	45:NB:196:ALA:HA	2.00	0.42
45:NB:265:PHE:CD2	45:NB:378:PHE:HZ	2.38	0.42
45:NB:286:VAL:N	45:NB:287:PRO:CD	2.82	0.42
45:NB:394:PHE:HA	45:NB:397:TRP:CE3	2.52	0.42
44:NC:72:PRO:HG2	45:ND:1:MET:HE3	2.01	0.42
45:ND:317:PHE:CE2	45:ND:326:VAL:HG13	2.54	0.42
44:NE:88:HIS:HD2	44:OE:283:HIS:O	2.01	0.42
45:NF:109:GLY:O	45:NF:113:ILE:N	2.48	0.42
45:NF:286:VAL:N	45:NF:287:PRO:CD	2.81	0.42
44:NG:103:PHE:HD2	44:NG:413:MET:HE1	1.84	0.42
44:NG:209:ILE:O	44:NG:212:ILE:HG22	2.19	0.42
44:NG:258:ASN:OD1	44:NG:352:LYS:NZ	2.23	0.42
45:NH:21:TRP:HZ2	45:NH:63:ALA:HB2	1.84	0.42
45:NH:100:ASN:HD22	45:NH:103:LYS:HD3	1.84	0.42
45:NH:183:TYR:CZ	45:NH:388:MET:HG3	2.55	0.42
45:NH:257:LEU:O	45:NH:259:PRO:HD3	2.20	0.42
45:NH:258:ILE:HG23	45:NH:263:LEU:O	2.20	0.42
44:NI:102:ASN:HB3	44:NI:105:ARG:CG	2.49	0.42
44:NI:237:SER:HA	44:NI:320:ARG:HH21	1.85	0.42
44:NI:324:VAL:CG2	44:NI:325:PRO:HD2	2.49	0.42
44:NI:346:TRP:HZ2	44:NI:435:VAL:HG13	1.84	0.42
45:NJ:218:THR:HG23	45:NJ:219:THR:HG23	2.02	0.42
44:NK:2:ARG:HA	44:NK:133:GLN:HE22	1.84	0.42
44:NK:254:GLU:O	44:NK:255:PHE:CD1	2.73	0.42
45:NL:323:THR:HA	45:NL:326:VAL:CB	2.50	0.42
45:NL:379:LYS:HE2	45:NL:379:LYS:HB2	1.66	0.42
44:NM:60:LYS:HE3	44:OM:282:TYR:CD2	2.55	0.42
45:NN:167:PHE:CE2	45:NN:233:MET:SD	3.13	0.42
44:OA:22:GLU:HG3	44:OA:83:TYR:OH	2.19	0.42
44:OA:261:PRO:CA	45:OD:394:PHE:HE1	2.31	0.42
44:OA:310:GLY:HA3	44:OA:382:THR:OG1	2.19	0.42
44:OC:205:ASP:OD2	44:OC:303:ALA:HB1	2.20	0.42
44:OC:297:GLU:HB2	44:OC:300:ASN:OD1	2.19	0.42
45:OD:31:ASP:HB3	45:OD:32:PRO:HD2	2.01	0.42
45:OD:232:ALA:CB	45:OD:268:ILE:HD12	2.50	0.42
44:OE:231:ILE:O	44:OE:234:VAL:N	2.53	0.42
44:OE:326:LYS:CD	45:OH:220:PRO:HG2	2.48	0.42
44:OG:413:MET:CE	44:OG:413:MET:CA	2.97	0.42
45:OH:290:THR:CG2	45:OH:330:MET:HE3	2.48	0.42
44:OI:30:ILE:HG22	44:OI:31:GLN:O	2.19	0.42
44:OI:174:SER:OG	44:OI:207:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:241:SER:HB3	44:OI:250:VAL:O	2.20	0.42
45:OJ:270:PHE:CD2	45:OJ:273:LEU:HD21	2.48	0.42
44:OK:167:LEU:HD11	44:OK:252:ILE:HD11	2.02	0.42
44:OK:243:ARG:HG3	44:OK:244:PHE:CE2	2.54	0.42
44:OK:394:LYS:HD3	45:OL:346:PRO:HG3	2.00	0.42
45:OL:67:ASP:OD2	45:OL:68:LEU:N	2.52	0.42
44:OM:177:VAL:HG11	44:OM:210:TYR:HE2	1.85	0.42
44:OM:325:PRO:O	44:OM:328:VAL:HB	2.20	0.42
44:PA:334:THR:O	44:PA:337:THR:HB	2.19	0.42
45:PB:105:HIS:CE1	45:PB:150:LEU:HD12	2.55	0.42
44:PC:14:ILE:HD13	44:PC:74:VAL:HG21	2.00	0.42
44:PC:142:GLY:HA2	44:PC:186:ASN:OD1	2.18	0.42
45:PD:164:MET:HB3	45:PD:197:ASP:N	2.17	0.42
45:PD:198:GLU:HA	45:PD:264:HIS:HB2	2.01	0.42
45:PD:256:ASN:CB	45:PD:350:LYS:HD2	2.48	0.42
44:PE:301:MET:CE	44:PE:305:CYS:O	2.68	0.42
45:PF:1:MET:C	45:PF:2:ARG:HG2	2.40	0.42
45:PF:164:MET:HB2	45:PF:164:MET:HE2	1.99	0.42
44:PG:3:GLU:OE2	44:PG:129:CYS:HA	2.19	0.42
44:PG:6:SER:HA	44:PG:136:LEU:O	2.19	0.42
44:PG:154:LEU:CD2	44:PG:166:LYS:HD2	2.49	0.42
44:PG:369:ALA:O	44:PG:371:VAL:HG13	2.20	0.42
45:PH:64:ILE:HG21	45:PH:120:VAL:CG2	2.50	0.42
45:PH:169:VAL:HG13	45:PH:202:ILE:O	2.20	0.42
44:PI:56:THR:HG22	44:PI:60:LYS:O	2.20	0.42
44:PI:89:PRO:HD3	44:QI:280:LYS:NZ	2.35	0.42
45:PJ:161:ASP:HB2	45:PJ:162:ARG:NH2	2.34	0.42
45:PJ:256:ASN:HD22	45:PJ:350:LYS:CE	2.32	0.42
45:PJ:365:VAL:HG12	45:PJ:366:THR:N	2.35	0.42
45:PJ:377:MET:O	45:PJ:381:VAL:HG23	2.20	0.42
44:PK:317:MET:CE	44:PK:375:VAL:HG21	2.49	0.42
45:PL:83:GLN:HA	45:PL:83:GLN:OE1	2.18	0.42
45:PL:104:GLY:O	45:PL:147:MET:N	2.53	0.42
45:PL:221:THR:CG2	45:PL:224:ASP:H	2.33	0.42
45:PL:320:ARG:CZ	45:PL:320:ARG:HB3	2.47	0.42
45:PL:326:VAL:O	45:PL:330:MET:HG2	2.19	0.42
44:PM:141:VAL:HG12	44:PM:171:ILE:O	2.19	0.42
44:PM:182:VAL:O	44:PM:182:VAL:HG22	2.19	0.42
44:PM:226:ASN:ND2	44:PM:367:ASP:OD2	2.53	0.42
44:PM:253:THR:HG23	44:PM:254:GLU:HG2	2.01	0.42
45:PN:8:GLN:HE21	45:PN:65:LEU:HD11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PN:54:ALA:HB3	45:PN:58:ARG:O	2.20	0.42
45:PN:66:MET:SD	45:PN:116:VAL:HG21	2.60	0.42
45:PN:239:CYS:SG	45:PN:240:LEU:N	2.93	0.42
45:PN:286:VAL:HB	45:PN:287:PRO:HD3	2.00	0.42
45:QB:312:THR:HG1	45:QB:348:ASN:C	2.19	0.42
44:QC:269:LEU:HD12	44:QC:301:MET:HG2	2.02	0.42
44:QC:356:ASN:OD1	44:QC:357:TYR:N	2.52	0.42
44:QE:15:GLN:O	44:QE:18:ASN:HB2	2.19	0.42
45:QF:5:VAL:CG2	45:QF:133:PHE:CD2	3.03	0.42
45:QF:164:MET:HE2	45:QF:164:MET:HB2	1.75	0.42
44:QG:195:LEU:HD11	44:QG:428:LEU:HD22	2.01	0.42
45:QL:83:GLN:OE1	45:QL:83:GLN:HA	2.19	0.42
44:QM:117:LEU:O	44:QM:121:ARG:HG2	2.19	0.42
44:RA:323:VAL:HG22	44:RA:324:VAL:N	2.35	0.42
45:RB:20:PHE:HD1	45:RB:230:SER:O	2.03	0.42
44:RC:284:GLU:HG3	44:RC:286:LEU:HD21	2.01	0.42
44:RC:377:MET:CE	44:RC:379:SER:HB3	2.44	0.42
45:RD:108:GLU:O	45:RD:111:GLU:N	2.50	0.42
44:RE:21:TRP:CH2	44:RE:63:PRO:HB3	2.55	0.42
45:RF:45:GLU:HB3	45:RF:46:ARG:NH1	2.17	0.42
45:RF:231:ALA:O	45:RF:234:SER:OG	2.32	0.42
45:RF:246:LEU:HD23	46:RG:501:GTP:H5''	2.01	0.42
44:RG:4:VAL:HG21	44:RG:136:LEU:HG	2.01	0.42
45:RH:65:LEU:HB2	45:RH:90:PHE:CE1	2.55	0.42
45:RH:95:THR:CG2	45:RH:108:GLU:HG3	2.46	0.42
44:RI:123:ARG:NH2	44:RI:160:ASP:HB3	2.35	0.42
44:RI:137:VAL:HG12	44:RI:167:LEU:O	2.20	0.42
44:RI:408:TYR:CD2	44:RI:418:PHE:HZ	2.38	0.42
45:RJ:201:VAL:HG22	45:RJ:266:PHE:O	2.19	0.42
44:RK:145:THR:HG22	46:RK:501:GTP:O3B	2.19	0.42
44:RK:183:GLU:HG2	44:RK:184:PRO:N	2.33	0.42
45:RL:150:LEU:O	45:RL:154:LYS:N	2.36	0.42
45:RL:286:VAL:HG13	45:RL:317:PHE:CE2	2.48	0.42
45:RL:293:MET:HB2	45:RL:365:VAL:HG11	2.01	0.42
45:RN:27:GLU:OE2	45:RN:241:ARG:NH1	2.50	0.42
45:RN:52:ASN:CB	45:RN:60:VAL:HG13	2.48	0.42
45:RN:113:ILE:HD12	45:RN:147:MET:HE3	2.01	0.42
45:RN:286:VAL:CB	45:RN:287:PRO:CD	2.86	0.42
44:SA:102:ASN:CG	44:SA:105:ARG:HG3	2.40	0.42
44:SA:114:ILE:O	44:SA:114:ILE:HG22	2.19	0.42
44:SA:244:PHE:HB2	44:SA:356:ASN:HD21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SA:330:ALA:HA	45:SB:174:LYS:NZ	2.34	0.42
45:SB:21:TRP:CH2	45:SB:61:PRO:HB3	2.55	0.42
45:SB:146:GLY:HA2	45:SB:149:THR:CG2	2.46	0.42
45:SB:372:THR:HG1	45:SB:377:MET:N	2.17	0.42
44:SC:4:VAL:CG2	44:SC:136:LEU:HG	2.50	0.42
44:SC:256:GLN:HA	44:SC:260:VAL:HG23	2.02	0.42
44:SC:269:LEU:HG	44:SC:379:SER:OG	2.19	0.42
45:SD:2:ARG:NH2	45:SD:240:LEU:HA	2.34	0.42
45:SD:166:THR:O	45:SD:199:CYS:HA	2.19	0.42
45:SD:237:THR:CG2	45:SD:241:ARG:HE	2.33	0.42
44:SE:33:ASP:HB3	44:SE:35:GLN:HE22	1.85	0.42
45:SF:6:HIS:CE1	45:SF:8:GLN:HB3	2.54	0.42
45:SF:183:TYR:CE1	45:SF:388:MET:HE2	2.55	0.42
44:SI:212:ILE:HD13	44:SI:300:ASN:HA	2.00	0.42
44:SI:326:LYS:HD3	45:SJ:212:PHE:CZ	2.53	0.42
45:SJ:163:ILE:HD13	45:SJ:251:ARG:CD	2.50	0.42
45:SJ:223:GLY:O	45:SJ:227:HIS:N	2.52	0.42
44:SK:141:VAL:CG2	44:SK:187:SER:HA	2.49	0.42
44:SK:394:LYS:O	44:SK:397:LEU:HB2	2.20	0.42
44:SM:21:TRP:CZ3	44:SM:87:PHE:HE1	2.34	0.42
44:SM:70:LEU:HD22	44:SM:110:ILE:HD12	2.01	0.42
45:SN:8:GLN:HG3	45:SN:14:ASN:OD1	2.20	0.42
45:SN:19:LYS:O	45:SN:22:GLU:HB2	2.20	0.42
45:SN:46:ARG:HG2	45:SN:241:ARG:O	2.20	0.42
45:SN:163:ILE:HG22	45:SN:164:MET:H	1.84	0.42
44:TA:23:LEU:HG	44:TA:27:GLU:OE2	2.20	0.42
45:TB:61:PRO:CD	45:TB:84:LEU:HB3	2.49	0.42
45:TB:319:GLY:HA2	45:TB:356:ILE:C	2.40	0.42
44:TC:311:LYS:HE2	44:TC:342:GLN:NE2	2.35	0.42
45:TD:206:ALA:HA	45:TD:209:ASP:HB2	1.99	0.42
44:TE:390:ARG:HG3	44:TE:391:LEU:N	2.34	0.42
45:TF:156:ARG:NH1	45:TF:160:PRO:O	2.50	0.42
45:TF:187:LEU:CD2	45:TF:411:ALA:HB2	2.44	0.42
45:TF:322:SER:HB2	44:TG:221:ARG:HG2	2.01	0.42
44:TG:67:PHE:HD2	44:TG:75:ILE:CD1	2.32	0.42
44:TG:247:ALA:HB1	45:TH:222:TYR:CE2	2.55	0.42
44:TG:387:VAL:O	44:TG:391:LEU:HB2	2.20	0.42
45:TH:331:LEU:HG	45:TH:335:ASN:OD1	2.20	0.42
45:TH:391:ARG:HA	45:TH:391:ARG:HD2	1.84	0.42
44:TI:22:GLU:HG3	44:TI:83:TYR:CZ	2.55	0.42
44:TI:30:ILE:HD13	44:TI:53:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:60:VAL:HB	45:TJ:86:ARG:NE	2.35	0.42
45:TJ:145:SER:O	45:TJ:149:THR:HG22	2.18	0.42
44:TK:12:GLY:O	44:TK:16:VAL:HG12	2.20	0.42
44:TK:56:THR:HG23	44:TK:58:ALA:H	1.85	0.42
44:TK:204:LEU:HD21	44:TK:302:MET:HE3	2.02	0.42
45:TL:285:THR:HB	45:TL:287:PRO:HD2	2.00	0.42
45:TN:68:LEU:HD23	45:TN:143:THR:CB	2.46	0.42
45:TN:134:GLN:O	45:TN:134:GLN:HG3	2.20	0.42
45:TN:324:LYS:O	45:TN:328:GLU:N	2.43	0.42
45:TN:366:THR:HG22	45:TN:367:PHE:N	2.35	0.42
44:UA:27:GLU:HA	44:UA:27:GLU:OE1	2.18	0.42
44:UA:388:PHE:CZ	44:UA:428:LEU:HD21	2.55	0.42
45:UB:101:TRP:HB2	45:UB:184:ASN:HB3	2.02	0.42
45:UB:375:GLN:NE2	45:UB:423:GLN:HB3	2.30	0.42
44:UC:158:SER:O	44:UC:162:GLY:HA2	2.20	0.42
44:UC:185:TYR:CE2	44:UC:404:PHE:HB2	2.54	0.42
44:UC:317:MET:HA	44:UC:376:CYS:O	2.19	0.42
44:UC:328:VAL:HG12	44:UC:332:ILE:HG13	2.01	0.42
44:UE:167:LEU:HG	44:UE:200:VAL:CG1	2.50	0.42
44:UE:176:GLN:HG2	44:UE:177:VAL:N	2.34	0.42
44:UG:145:THR:HG23	46:UG:501:GTP:O1B	2.19	0.42
44:UG:301:MET:HE1	44:UG:307:PRO:HD3	2.01	0.42
45:UH:139:LEU:HD23	45:UH:188:SER:OG	2.19	0.42
45:UH:178:THR:N	45:UH:181:GLU:OE2	2.53	0.42
45:UH:255:VAL:O	44:UI:407:TRP:HZ3	2.01	0.42
44:UI:219:ILE:HG22	44:UI:222:PRO:CD	2.49	0.42
45:UJ:81:PHE:O	45:UJ:84:LEU:HD13	2.19	0.42
45:UJ:309:ARG:HD2	45:UJ:341:PHE:O	2.19	0.42
45:UJ:345:ILE:O	45:UJ:345:ILE:HG23	2.19	0.42
44:UK:224:TYR:O	44:UK:228:ASN:N	2.31	0.42
45:UL:242:PHE:HB3	45:UL:356:ILE:HG12	2.00	0.42
45:UL:276:ARG:HD3	45:UL:276:ARG:HA	1.83	0.42
44:UM:132:LEU:HD21	44:UM:135:PHE:CE2	2.54	0.42
45:UN:152:ILE:CD1	45:UN:164:MET:HE1	2.50	0.42
45:UN:182:PRO:HB3	45:UN:385:PHE:HA	2.02	0.42
44:VA:71:GLU:CD	44:VA:73:THR:H	2.15	0.42
44:VA:74:VAL:HG23	44:VA:75:ILE:N	2.35	0.42
44:VA:195:LEU:HD21	44:VA:264:ARG:NH2	2.34	0.42
45:VB:105:HIS:HD1	45:VB:106:TYR:HD1	1.68	0.42
44:VC:6:SER:HA	44:VC:136:LEU:O	2.20	0.42
45:VD:193:VAL:HA	45:VD:264:HIS:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:385:PHE:CE2	45:VD:412:GLU:HB2	2.55	0.42
44:VE:137:VAL:O	44:VE:168:GLY:HA2	2.19	0.42
45:VF:1:MET:C	45:VF:2:ARG:HG2	2.40	0.42
44:VG:123:ARG:HB2	44:VG:161:TYR:OH	2.19	0.42
44:VG:138:PHE:CE2	44:VG:235:ILE:HD11	2.53	0.42
44:VG:352:LYS:HD2	45:VJ:177:ASP:O	2.20	0.42
44:VG:389:SER:HG	44:VG:390:ARG:H	1.66	0.42
45:VH:8:GLN:O	45:VH:8:GLN:HG2	2.20	0.42
44:VI:102:ASN:O	44:VI:105:ARG:N	2.53	0.42
44:VI:103:PHE:HD2	44:VI:413:MET:HE1	1.84	0.42
44:VI:332:ILE:HG23	44:VI:333:ALA:N	2.34	0.42
44:VI:334:THR:O	44:VI:337:THR:HB	2.19	0.42
44:VI:398:MET:HE1	45:VJ:345:ILE:HD12	2.00	0.42
44:VK:288:VAL:HG11	44:VK:327:ASP:HB3	2.01	0.42
44:VM:258:ASN:HD22	44:VM:352:LYS:HE2	1.83	0.42
45:VN:9:GLY:HA3	45:VN:118:ASP:OD1	2.20	0.42
45:VN:127:CYS:SG	45:VN:130:LEU:HB2	2.60	0.42
45:VN:246:LEU:HD13	45:VN:353:ILE:CD1	2.43	0.42
45:VN:265:PHE:HE2	45:VN:378:PHE:CZ	2.35	0.42
44:WC:5:ILE:CG2	44:WC:132:LEU:HD12	2.49	0.42
44:WC:119:LEU:CG	44:WC:156:ARG:HD3	2.40	0.42
44:WC:221:ARG:HH21	45:WD:322:SER:H	1.65	0.42
44:WC:262:TYR:HB3	44:WC:263:PRO:HD2	2.01	0.42
45:WD:1:MET:C	45:WD:2:ARG:HG2	2.39	0.42
44:WE:270:SER:HB3	44:WE:378:ILE:CD1	2.49	0.42
45:WF:211:CYS:SG	45:WF:225:LEU:HD23	2.59	0.42
45:WH:396:HIS:HA	45:WH:399:THR:OG1	2.20	0.42
44:WI:202:VAL:HG11	44:WI:270:SER:HB3	2.02	0.42
44:WI:407:TRP:CZ2	45:WJ:258:ILE:HB	2.55	0.42
45:WJ:28:HIS:C	45:WJ:43:GLN:HE21	2.23	0.42
44:WK:37:PRO:HB2	44:WK:40:LYS:CG	2.50	0.42
44:WK:417:GLU:O	44:WK:420:GLU:HG2	2.19	0.42
44:WM:319:TYR:CE1	44:WM:375:VAL:HG21	2.54	0.42
44:WM:323:VAL:HG13	44:WM:323:VAL:O	2.20	0.42
1:6H:293:ASP:CA	45:FH:360:GLY:HA2	2.49	0.42
5:0D:11:VAL:HG23	44:CC:84:ARG:NH2	2.34	0.42
6:0E:118:ARG:HH12	35:7R:537:LYS:NZ	2.17	0.42
7:0F:77:LYS:CB	45:ED:320:ARG:HH22	2.32	0.42
17:1B:302:ASN:ND2	45:KD:279:GLN:OE1	2.52	0.42
20:1J:354:ASP:HB3	45:IN:279:GLN:OE1	2.19	0.42
12:1S:17:LYS:HZ1	45:WF:90:PHE:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1V:51:LEU:HD21	44:LI:120:ASP:OD2	2.20	0.42
15:1V:124:LEU:HD11	45:LL:409:THR:CG2	2.26	0.42
21:2K:212:ARG:HD3	44:GM:282:TYR:HD2	1.84	0.42
15:2V:72:GLY:HA2	45:MF:340:TYR:CZ	2.54	0.42
26:3R:244:ARG:NH1	44:BK:55:GLU:HG2	2.32	0.42
26:3R:382:TYR:HD1	45:EL:276:ARG:NH1	2.16	0.42
12:3S:20:ASN:CA	45:WN:77:ARG:HH22	2.33	0.42
15:3V:128:GLN:NE2	45:LD:413:SER:HB3	2.33	0.42
34:4F:168:GLU:O	44:IM:82:THR:HB	2.18	0.42
16:4X:27:PHE:CZ	45:LL:273:LEU:HD11	2.53	0.42
38:5E:111:ASN:HB3	45:NB:44:LEU:HD12	1.97	0.42
38:5F:80:LYS:HG2	44:KE:402:ARG:CD	2.16	0.42
38:5G:147:GLN:HE22	45:NL:55:THR:C	2.23	0.42
38:5H:42:TYR:CD2	44:OK:281:ALA:HB3	2.54	0.42
39:5I:42:ASN:HB2	39:5I:43:PRO:HD3	2.01	0.42
11:5Q:124:ARG:C	11:5Q:125:LEU:HD22	2.39	0.42
11:5Q:130:ASN:OD1	11:5Q:130:ASN:N	2.53	0.42
35:5R:13:PRO:HA	45:LJ:227:HIS:CD2	2.54	0.42
35:5R:114:ARG:HH22	35:5R:139:ILE:CG2	2.23	0.42
35:5R:126:THR:HG21	35:5R:147:ARG:CD	2.50	0.42
35:5R:172:ASN:O	35:5R:173:LEU:HD12	2.20	0.42
35:5R:287:ILE:HD13	35:5R:304:LEU:CD1	2.47	0.42
35:5R:396:ASP:OD1	35:5R:409:PRO:HD3	2.20	0.42
35:5R:429:LYS:N	35:5R:506:LEU:HD23	2.35	0.42
35:5R:512:THR:O	35:5R:516:MET:N	2.40	0.42
40:6F:86:MET:CE	45:JF:355:ASP:OD1	2.67	0.42
40:6F:123:TYR:CD2	40:6F:124:ARG:N	2.86	0.42
11:6Q:89:PHE:CZ	11:6Q:105:ALA:HB3	2.55	0.42
11:6Q:162:ILE:HG13	11:6Q:162:ILE:O	2.19	0.42
35:6R:106:ASN:HA	35:6R:107:PRO:HD2	1.91	0.42
35:6R:152:LYS:HE3	35:6R:152:LYS:HB2	1.72	0.42
35:7R:12:LEU:HB3	35:7R:13:PRO:HD2	2.02	0.42
35:7R:236:LEU:HD11	44:BA:1:MET:CE	2.49	0.42
35:7R:246:GLN:HE21	44:BA:58:ALA:HA	1.85	0.42
35:7R:321:MET:HE3	45:CB:361:LEU:CD2	2.49	0.42
35:7R:454:MET:HG2	35:7R:455:VAL:N	2.35	0.42
42:8L:168:UNK:O	42:8L:172:UNK:N	2.53	0.42
44:AA:88:HIS:ND1	44:AA:90:GLU:HG2	2.32	0.42
44:AA:265:ILE:HG23	44:AA:432:TYR:CE1	2.53	0.42
44:AA:336:LYS:HE2	44:AA:343:PHE:CE1	2.47	0.42
45:AB:309:ARG:NH2	45:AB:426:GLN:O	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:313:ALA:HB1	45:AB:367:PHE:HE1	1.83	0.42
44:AC:172:TYR:HD2	44:AC:203:MET:SD	2.43	0.42
44:AC:286:LEU:HD23	44:AC:286:LEU:HA	1.89	0.42
44:AC:286:LEU:HD11	44:AC:371:VAL:HG11	2.01	0.42
44:AE:5:ILE:HB	44:AE:135:PHE:CD1	2.54	0.42
45:AF:197:ASP:O	45:AF:198:GLU:HG3	2.19	0.42
45:AF:318:ARG:HD3	45:AF:356:ILE:O	2.19	0.42
44:AG:14:ILE:HD12	44:AG:14:ILE:H	1.83	0.42
44:AG:141:VAL:O	44:AG:141:VAL:HG12	2.20	0.42
44:AG:223:THR:HG23	44:AG:225:THR:HG23	2.00	0.42
44:AG:349:THR:O	44:AG:349:THR:HG23	2.20	0.42
45:AH:4:ILE:CD1	45:AH:131:GLN:HB3	2.50	0.42
44:AI:229:ARG:HH11	44:AI:366:GLY:HA2	1.84	0.42
45:AJ:1:MET:C	45:AJ:2:ARG:HG2	2.40	0.42
45:AJ:201:VAL:O	45:AJ:202:ILE:HG13	2.20	0.42
45:AJ:202:ILE:HD13	45:AJ:229:VAL:CG2	2.46	0.42
45:AJ:303:ALA:H	45:AJ:377:MET:HE2	1.84	0.42
45:AJ:391:ARG:HD2	45:AJ:391:ARG:HA	1.84	0.42
44:AK:20:CYS:O	44:AK:24:PHE:CD2	2.72	0.42
45:AL:46:ARG:O	45:AL:49:VAL:HG13	2.18	0.42
44:AM:224:TYR:CD1	44:AM:227:LEU:HD12	2.45	0.42
45:AN:12:CYS:O	45:AN:16:ILE:HG12	2.19	0.42
44:BA:319:TYR:CE2	44:BA:375:VAL:HG21	2.54	0.42
44:BA:417:GLU:O	44:BA:420:GLU:HG2	2.20	0.42
44:BC:3:GLU:OE2	44:BC:132:LEU:N	2.53	0.42
44:BC:133:GLN:HA	44:BC:164:LYS:NZ	2.35	0.42
45:BD:52:ASN:OD1	45:BD:60:VAL:HG13	2.19	0.42
45:BD:97:ALA:O	45:BD:103:LYS:HB3	2.20	0.42
45:BD:130:LEU:HD22	45:BD:162:ARG:CG	2.46	0.42
44:BE:320:ARG:HG2	44:BE:321:GLY:N	2.34	0.42
45:BF:214:THR:O	45:BF:216:LYS:HG3	2.20	0.42
44:BI:22:GLU:OE2	44:BI:83:TYR:HE2	2.01	0.42
44:BI:88:HIS:CE1	44:CI:284:GLU:HB2	2.55	0.42
44:BI:128:ASN:OD1	44:CI:285:GLN:NE2	2.53	0.42
44:BI:326:LYS:HD3	45:BL:219:THR:CG2	2.26	0.42
45:BJ:89:ASN:OD1	45:BJ:90:PHE:N	2.52	0.42
45:BL:3:GLU:OE2	45:BL:127:CYS:HB2	2.20	0.42
44:BM:2:ARG:HB2	44:BM:2:ARG:CZ	2.48	0.42
44:BM:73:THR:N	45:BN:46:ARG:NH2	2.68	0.42
45:BN:51:TYR:CD1	45:BN:61:PRO:HA	2.54	0.42
45:BN:68:LEU:HD23	45:BN:97:ALA:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:257:LEU:HA	45:BN:312:THR:HG21	2.02	0.42
44:CA:229:ARG:HH11	44:CA:229:ARG:HG2	1.85	0.42
45:CB:179:VAL:O	45:CB:182:PRO:HD2	2.19	0.42
45:CD:376:GLU:HA	45:CD:379:LYS:NZ	2.34	0.42
45:CF:105:HIS:CD2	45:CF:150:LEU:HG	2.55	0.42
45:CF:302:ALA:HB3	45:CF:377:MET:HE3	2.00	0.42
44:CG:260:VAL:O	44:CG:260:VAL:CG1	2.68	0.42
44:CG:328:VAL:O	44:CG:332:ILE:HG12	2.20	0.42
44:CI:71:GLU:HA	44:CI:72:PRO:HD3	1.89	0.42
44:CI:287:SER:O	44:CI:291:ILE:HG23	2.19	0.42
45:CJ:254:ALA:HB1	44:CK:407:TRP:CH2	2.46	0.42
45:CJ:310:TYR:CE1	45:CJ:371:SER:HB2	2.55	0.42
45:CJ:316:LEU:O	45:CJ:365:VAL:HA	2.19	0.42
44:CK:99:ALA:O	44:CK:100:ALA:HB3	2.19	0.42
44:CM:102:ASN:HA	44:CM:408:TYR:CE1	2.54	0.42
44:CM:147:SER:HB2	44:CM:190:SER:CB	2.50	0.42
44:CM:252:ILE:HA	44:CM:255:PHE:CE2	2.53	0.42
45:CN:3:GLU:OE1	45:CN:129:CYS:O	2.37	0.42
45:CN:159:TYR:N	45:CN:160:PRO:HD3	2.34	0.42
44:DA:14:ILE:HG13	44:DA:15:GLN:H	1.84	0.42
44:DA:25:CYS:HA	44:DA:30:ILE:CG1	2.50	0.42
44:DA:191:THR:HA	44:DA:194:LEU:CG	2.41	0.42
45:DB:421:GLU:HA	45:DB:424:GLN:CD	2.39	0.42
44:DC:56:THR:HG23	44:DC:61:HIS:HA	2.02	0.42
45:DD:101:TRP:CB	45:DD:398:TYR:HE1	2.25	0.42
44:DE:63:PRO:HG3	44:DE:86:LEU:HD11	2.01	0.42
44:DE:111:GLY:CA	44:DE:149:LEU:HD21	2.40	0.42
44:DE:175:PRO:HB2	44:DE:176:GLN:OE1	2.20	0.42
45:DF:139:LEU:HG	45:DF:188:SER:CB	2.49	0.42
45:DF:324:LYS:HD2	44:DG:210:TYR:CD1	2.55	0.42
44:DG:225:THR:HA	44:DG:228:ASN:ND2	2.32	0.42
44:DG:291:ILE:HB	44:DG:375:VAL:CG1	2.48	0.42
45:DH:312:THR:O	45:DH:370:ASN:HB3	2.20	0.42
44:DI:51:THR:CB	44:DI:243:ARG:HD3	2.45	0.42
44:DI:109:THR:HG22	44:DI:110:ILE:HG23	2.01	0.42
45:DJ:86:ARG:HD2	45:EJ:281:TYR:HD2	1.84	0.42
44:DK:30:ILE:HG13	44:DK:61:HIS:HD2	1.85	0.42
44:DK:103:PHE:HB2	44:DK:186:ASN:HB2	2.01	0.42
44:DK:353:VAL:O	44:DK:353:VAL:HG13	2.19	0.42
45:DL:130:LEU:HD21	45:DL:133:PHE:CE1	2.55	0.42
45:DL:178:THR:HG22	45:DL:180:VAL:HG12	1.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DM:5:ILE:CD1	44:DM:125:LEU:HB3	2.49	0.42
44:DM:219:ILE:HG22	44:DM:221:ARG:H	1.84	0.42
45:DN:72:THR:HG23	45:DN:73:MET:N	2.35	0.42
45:DN:345:ILE:O	45:DN:345:ILE:HG23	2.19	0.42
44:EC:171:ILE:HG21	46:EC:501:GTP:N2	2.22	0.42
44:EC:203:MET:HE2	44:EC:269:LEU:CA	2.50	0.42
44:EG:349:THR:O	45:EH:179:VAL:HB	2.20	0.42
45:EH:189:VAL:HG11	45:EH:378:PHE:CZ	2.54	0.42
45:EH:210:ILE:CD1	45:EH:300:MET:HG2	2.48	0.42
45:EH:215:LEU:O	45:EH:275:SER:HB2	2.19	0.42
44:EI:71:GLU:OE2	44:EI:72:PRO:HD2	2.19	0.42
44:EI:259:LEU:HD21	44:EI:316:SER:N	2.35	0.42
44:EI:392:ASP:HB2	44:EI:429:GLU:OE2	2.19	0.42
45:EJ:80:PRO:O	45:EJ:81:PHE:HB2	2.19	0.42
45:EJ:149:THR:O	45:EJ:152:ILE:HB	2.19	0.42
45:EJ:204:ASN:OD1	48:EJ:501:GDP:O2'	2.33	0.42
45:EJ:262:ARG:NH1	45:EJ:421:GLU:OE1	2.53	0.42
45:EL:139:LEU:HD23	45:EL:188:SER:OG	2.20	0.42
45:EL:247:ASN:HD21	44:EM:74:VAL:HG13	1.85	0.42
44:EM:171:ILE:HG12	44:EM:204:LEU:CB	2.49	0.42
44:EM:313:MET:N	44:EM:380:ASN:O	2.50	0.42
45:EN:215:LEU:C	45:EN:216:LYS:HG2	2.40	0.42
45:EN:257:LEU:C	45:EN:258:ILE:HD12	2.40	0.42
44:FA:70:LEU:HD13	44:FA:110:ILE:HD12	2.01	0.42
44:FA:72:PRO:HB3	44:FA:76:ASP:OD2	2.19	0.42
44:FA:292:THR:HG21	44:FA:331:SER:CB	2.50	0.42
45:FB:10:GLY:O	45:FB:14:ASN:HB2	2.20	0.42
45:FB:18:ALA:CB	45:FB:76:VAL:HG11	2.49	0.42
45:FB:81:PHE:O	45:FB:84:LEU:HD13	2.19	0.42
45:FB:215:LEU:HD11	45:FB:228:LEU:HD11	2.02	0.42
45:FB:216:LYS:HD3	45:FB:275:SER:HB3	2.02	0.42
45:FB:382:ALA:O	45:FB:386:THR:HG22	2.20	0.42
44:FC:102:ASN:CG	44:FC:105:ARG:HG3	2.40	0.42
44:FC:120:ASP:O	44:FC:123:ARG:HB3	2.20	0.42
44:FC:137:VAL:CG1	44:FC:168:GLY:HA2	2.50	0.42
44:FC:394:LYS:HG2	45:FD:346:PRO:HG3	2.01	0.42
45:FD:318:ARG:HG2	45:FD:354:CYS:HB3	2.01	0.42
44:FE:51:THR:CB	44:FE:243:ARG:HB3	2.49	0.42
44:FE:183:GLU:N	44:FE:184:PRO:CD	2.83	0.42
45:FF:117:LEU:HA	45:FF:120:VAL:HG12	2.02	0.42
44:FG:24:PHE:HE2	44:FG:52:PHE:CE2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FG:125:LEU:HD23	44:FG:125:LEU:C	2.40	0.42
44:FG:203:MET:HE2	44:FG:203:MET:HA	2.01	0.42
44:FG:311:LYS:HD2	44:FG:342:GLN:HE22	1.83	0.42
45:FH:18:ALA:HB2	45:FH:76:VAL:HG21	2.01	0.42
45:FH:334:GLN:HG3	45:FH:341:PHE:CD1	2.55	0.42
44:FI:9:VAL:HG22	44:FI:146:GLY:HA2	2.02	0.42
45:FJ:58:ARG:NH2	45:GJ:281:TYR:HE1	2.18	0.42
45:FJ:377:MET:HA	45:FJ:380:ARG:CD	2.49	0.42
45:FL:276:ARG:NH2	45:FL:279:GLN:OE1	2.38	0.42
44:FM:259:LEU:HD23	44:FM:314:ALA:CB	2.50	0.42
45:FN:109:GLY:O	45:FN:113:ILE:HB	2.19	0.42
45:FN:183:TYR:OH	45:FN:388:MET:O	2.37	0.42
45:FN:311:LEU:CD2	45:FN:344:TRP:CH2	3.03	0.42
44:GA:407:TRP:O	44:GA:411:GLU:HG2	2.19	0.42
45:GB:239:CYS:SG	45:GB:240:LEU:N	2.92	0.42
44:GC:117:LEU:O	44:GC:121:ARG:N	2.50	0.42
45:GD:1:MET:C	45:GD:2:ARG:HG2	2.39	0.42
45:GD:143:THR:O	45:GD:147:MET:HE3	2.20	0.42
45:GD:163:ILE:HD13	45:GD:251:ARG:CG	2.50	0.42
45:GF:4:ILE:O	45:GF:4:ILE:HG13	2.20	0.42
45:GF:298:ASN:OD1	45:GF:298:ASN:C	2.58	0.42
44:GG:73:THR:CA	45:GH:46:ARG:HH22	2.33	0.42
44:GG:74:VAL:HG23	44:GG:75:ILE:N	2.35	0.42
44:GG:226:ASN:ND2	44:GG:367:ASP:OD2	2.53	0.42
44:GG:372:MET:O	44:GG:373:ARG:HD2	2.20	0.42
44:GG:400:ALA:HB1	44:GG:401:LYS:NZ	2.35	0.42
45:GH:266:PHE:CE1	45:GH:370:ASN:HB2	2.54	0.42
45:GH:311:LEU:CD2	45:GH:342:VAL:HG11	2.49	0.42
44:GI:265:ILE:HD13	44:GI:313:MET:SD	2.60	0.42
45:GJ:268:ILE:C	45:GJ:300:MET:HE2	2.39	0.42
45:GJ:304:ASP:OD1	45:GJ:305:PRO:HD2	2.19	0.42
44:GK:206:ASN:HA	44:GK:209:ILE:CD1	2.48	0.42
44:GK:372:MET:O	44:GK:373:ARG:HG3	2.20	0.42
45:GL:58:ARG:HD2	45:HL:280:GLN:OE1	2.20	0.42
44:GM:100:ALA:HA	45:GN:252:LYS:HE3	2.01	0.42
44:GM:188:ILE:HG23	44:GM:425:LEU:CD1	2.50	0.42
44:GM:211:ASP:O	44:GM:214:ARG:HB2	2.20	0.42
44:GM:392:ASP:O	44:GM:395:PHE:N	2.52	0.42
45:GN:144:GLY:N	48:GN:501:GDP:O1B	2.51	0.42
45:GN:148:GLY:O	45:GN:152:ILE:HG12	2.20	0.42
45:GN:213:ARG:HH21	45:GN:297:LYS:HE2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:2:ARG:HG2	45:HB:2:ARG:HH11	1.84	0.42
45:HB:50:TYR:O	45:HB:61:PRO:HA	2.20	0.42
45:HB:152:ILE:O	45:HB:156:ARG:HG2	2.19	0.42
45:HB:218:THR:C	45:HB:220:PRO:HD3	2.40	0.42
45:HB:344:TRP:CE3	45:HB:345:ILE:HB	2.55	0.42
45:HD:113:ILE:HD13	45:HD:150:LEU:HD22	2.00	0.42
45:HD:169:VAL:O	45:HD:169:VAL:HG23	2.20	0.42
44:HE:138:PHE:CE1	44:HE:169:PHE:HB2	2.55	0.42
44:HE:276:ILE:HG23	44:HE:281:ALA:HB2	2.02	0.42
45:HF:30:ILE:CD1	45:HF:36:TYR:HA	2.49	0.42
45:HF:60:VAL:HG21	45:HF:86:ARG:CG	2.49	0.42
45:HF:264:HIS:CE1	45:HF:265:PHE:HE1	2.37	0.42
44:HG:182:VAL:C	44:HG:184:PRO:HD2	2.40	0.42
44:HG:268:MET:HB2	44:HG:379:SER:C	2.40	0.42
44:HG:288:VAL:HG23	44:HG:291:ILE:HD11	2.01	0.42
45:HH:5:VAL:HG22	45:HH:133:PHE:CE1	2.55	0.42
45:HH:60:VAL:CG1	45:HH:86:ARG:HE	2.28	0.42
45:HL:258:ILE:HD11	45:HL:266:PHE:HZ	1.84	0.42
44:HM:286:LEU:HD13	44:HM:291:ILE:HG22	2.01	0.42
44:HM:287:SER:O	44:HM:290:GLU:HG2	2.20	0.42
44:IC:181:VAL:O	44:IC:184:PRO:HD2	2.20	0.42
45:ID:226:ASN:ND2	48:ID:502:GDP:HN1	2.18	0.42
45:ID:229:VAL:O	45:ID:232:ALA:N	2.52	0.42
45:ID:274:THR:HB	45:ID:282:ARG:NH1	2.34	0.42
44:IE:47:ASP:O	44:IE:47:ASP:OD1	2.38	0.42
44:IE:114:ILE:O	44:IE:114:ILE:HG22	2.19	0.42
44:IE:172:TYR:HB3	44:IE:173:PRO:HD2	2.01	0.42
44:IE:256:GLN:HG2	45:IH:397:TRP:CZ2	2.52	0.42
44:IG:402:ARG:HG3	44:IG:402:ARG:NH1	2.34	0.42
44:II:91:GLN:HG2	44:II:121:ARG:CD	2.35	0.42
44:II:195:LEU:HG	44:II:195:LEU:O	2.20	0.42
45:IJ:167:PHE:CG	45:IJ:200:MET:HE2	2.54	0.42
44:IK:26:LEU:HD23	44:IK:26:LEU:C	2.39	0.42
45:IL:210:ILE:HG23	45:IL:214:THR:CG2	2.42	0.42
44:IM:156:ARG:NH1	44:IM:160:ASP:OD2	2.53	0.42
44:IM:288:VAL:O	44:IM:291:ILE:HG12	2.19	0.42
44:IM:332:ILE:HG22	44:IM:336:LYS:HG3	2.01	0.42
45:IN:21:TRP:CH2	45:IN:61:PRO:HB2	2.55	0.42
45:IN:304:ASP:HB3	45:IN:307:HIS:ND1	2.34	0.42
44:JC:5:ILE:HB	44:JC:135:PHE:CE1	2.54	0.42
44:JC:139:ASN:N	44:JC:139:ASN:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JD:49:VAL:HG11	45:JD:241:ARG:CG	2.37	0.42
45:JD:102:ALA:HB1	45:JD:401:GLU:HB2	2.00	0.42
45:JD:285:THR:OG1	45:JD:287:PRO:HD2	2.20	0.42
45:JF:66:MET:HE3	45:JF:147:MET:SD	2.60	0.42
44:JG:212:ILE:HG13	44:JG:302:MET:HE2	2.00	0.42
45:JH:95:THR:CG2	45:JH:108:GLU:HG2	2.49	0.42
45:JJ:8:GLN:CD	45:JJ:17:GLY:HA3	2.40	0.42
45:JJ:11:GLN:HA	45:JJ:14:ASN:HB3	2.01	0.42
45:JJ:166:THR:O	45:JJ:167:PHE:HD1	2.02	0.42
45:JJ:202:ILE:HD11	45:JJ:268:ILE:HG12	2.01	0.42
45:JJ:286:VAL:N	45:JJ:287:PRO:CD	2.82	0.42
44:JK:244:PHE:CE2	44:JK:358:GLN:HG2	2.55	0.42
45:JL:207:LEU:HA	45:JL:210:ILE:HG22	2.02	0.42
44:JM:88:HIS:HB3	44:JM:91:GLN:CB	2.50	0.42
45:JN:139:LEU:HA	45:JN:145:SER:HB3	2.01	0.42
45:JN:253:LEU:O	45:JN:257:LEU:CB	2.67	0.42
45:JN:391:ARG:HA	45:JN:391:ARG:HD2	1.84	0.42
44:KA:1:MET:SD	44:KA:130:THR:OG1	2.72	0.42
44:KA:88:HIS:CE1	44:KA:90:GLU:HG2	2.55	0.42
45:KD:3:GLU:CD	45:KD:127:CYS:HB2	2.39	0.42
45:KF:198:GLU:HG2	45:KF:266:PHE:CE2	2.54	0.42
44:KG:138:PHE:HZ	44:KG:235:ILE:CD1	2.32	0.42
44:KG:311:LYS:HD3	44:KG:342:GLN:NE2	2.35	0.42
44:KG:325:PRO:HA	44:KG:328:VAL:HG22	2.02	0.42
45:KH:156:ARG:NH2	45:KH:162:ARG:O	2.51	0.42
44:KI:38:SER:O	44:KI:39:ASP:OD1	2.37	0.42
44:KI:88:HIS:CG	44:KI:89:PRO:HD2	2.54	0.42
45:KJ:86:ARG:HG3	45:KJ:88:ASP:H	1.83	0.42
45:KJ:285:THR:O	45:KJ:288:GLU:HB3	2.19	0.42
45:KJ:295:ASP:OD1	45:KJ:295:ASP:C	2.57	0.42
45:KJ:350:LYS:CG	45:KJ:351:SER:N	2.83	0.42
44:KK:172:TYR:CG	44:KK:203:MET:HE1	2.55	0.42
44:KK:296:PHE:CE2	44:KK:335:ILE:HG21	2.55	0.42
44:KK:328:VAL:HG21	44:KK:355:ILE:CD1	2.40	0.42
45:KL:142:GLY:N	48:KL:501:GDP:O2B	2.51	0.42
44:KM:104:ALA:O	44:KM:108:TYR:HB2	2.20	0.42
44:KM:288:VAL:CB	44:KM:373:ARG:HD2	2.47	0.42
44:KM:302:MET:HB2	44:KM:302:MET:HE2	1.64	0.42
45:KN:19:LYS:HZ1	45:KN:227:HIS:HB2	1.84	0.42
45:KN:20:PHE:CE1	45:KN:24:ILE:HD11	2.55	0.42
44:LA:214:ARG:NH2	44:LA:215:ARG:HG2	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:425:LEU:O	44:LA:429:GLU:OE1	2.37	0.42
45:LB:164:MET:O	45:LB:197:ASP:HB2	2.20	0.42
44:LC:119:LEU:HD23	44:LC:119:LEU:HA	1.89	0.42
45:LD:36:TYR:CD1	45:LD:44:LEU:HD21	2.54	0.42
45:LD:263:LEU:HG	45:LD:422:TYR:CD1	2.54	0.42
45:LD:310:TYR:HE1	45:LD:371:SER:HB2	1.85	0.42
44:LE:145:THR:HG23	44:LE:146:GLY:N	2.34	0.42
45:LF:19:LYS:HB2	45:LF:226:ASN:HB3	2.01	0.42
45:LF:45:GLU:C	45:LF:46:ARG:HD2	2.40	0.42
45:LF:186:THR:HG23	45:LF:187:LEU:N	2.35	0.42
45:LF:256:ASN:HD22	45:LF:350:LYS:CD	2.32	0.42
44:LG:75:ILE:CD1	44:LG:92:LEU:HD23	2.42	0.42
45:LH:306:ARG:CZ	45:LH:306:ARG:HB3	2.50	0.42
44:LK:179:THR:O	45:LL:350:LYS:HG2	2.19	0.42
44:LM:320:ARG:HA	44:LM:356:ASN:O	2.20	0.42
45:LN:21:TRP:CE3	45:LN:61:PRO:HB3	2.54	0.42
45:LN:47:ILE:HD11	45:LN:51:TYR:CD2	2.54	0.42
44:MA:75:ILE:HG22	44:MA:79:ARG:CZ	2.50	0.42
45:MB:377:MET:HG2	45:MB:380:ARG:NH2	2.34	0.42
44:MC:55:GLU:HG3	44:MC:57:GLY:H	1.85	0.42
44:MC:217:LEU:HD21	44:MC:275:ILE:HG22	2.02	0.42
45:MF:291:GLN:NE2	45:MF:292:GLN:HB2	2.35	0.42
45:MF:313:ALA:HB1	45:MF:367:PHE:CZ	2.55	0.42
44:MG:169:PHE:CE1	44:MG:202:VAL:HG21	2.54	0.42
44:MG:199:ASP:O	44:MG:266:HIS:HB2	2.20	0.42
44:MG:200:VAL:HG13	44:MG:268:MET:CE	2.50	0.42
44:MK:103:PHE:HE1	44:MK:148:GLY:HA2	1.85	0.42
44:MK:287:SER:O	44:MK:290:GLU:HG2	2.20	0.42
45:ML:290:THR:HG21	45:ML:329:GLN:CG	2.50	0.42
44:MM:26:LEU:HD22	44:MM:364:PRO:CD	2.50	0.42
44:MM:66:VAL:CG1	44:MM:91:GLN:HE21	2.29	0.42
44:MM:102:ASN:HB3	44:MM:105:ARG:HG3	2.00	0.42
45:MN:200:MET:CE	45:MN:266:PHE:HB2	2.50	0.42
44:NA:157:LEU:HB2	44:NA:166:LYS:HE2	2.01	0.42
44:NA:214:ARG:O	44:NA:218:ASP:HA	2.19	0.42
44:NA:274:PRO:O	44:NA:276:ILE:HD12	2.19	0.42
44:NC:210:TYR:HD1	44:NC:227:LEU:HD21	1.83	0.42
44:NC:401:LYS:CE	45:ND:428:ALA:HB1	2.50	0.42
45:ND:235:GLY:O	45:ND:316:LEU:HD12	2.19	0.42
44:NE:275:ILE:HD12	44:NE:368:LEU:HD13	2.01	0.42
45:NF:175:VAL:HG11	45:NF:208:TYR:CE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:14:ILE:HD12	44:NG:14:ILE:H	1.85	0.42
44:NG:244:PHE:CD1	44:NG:358:GLN:HG3	2.55	0.42
44:NG:290:GLU:HG3	44:NG:291:ILE:N	2.34	0.42
45:NH:217:LEU:HD11	45:NH:220:PRO:HB3	2.00	0.42
44:NI:223:THR:HG1	45:NJ:322:SER:CB	2.32	0.42
45:NJ:164:MET:CB	45:NJ:197:ASP:HB2	2.37	0.42
45:NJ:404:ASP:OD1	45:NJ:407:GLU:HG3	2.19	0.42
44:NK:188:ILE:HG13	44:NK:395:PHE:CD2	2.53	0.42
44:NK:269:LEU:HD12	44:NK:270:SER:N	2.29	0.42
45:NL:36:TYR:HD1	45:NL:44:LEU:HD21	1.83	0.42
45:NL:163:ILE:HD11	45:NL:251:ARG:NE	2.35	0.42
45:NL:289:LEU:HD11	45:NL:363:MET:CB	2.49	0.42
45:NL:395:LEU:HD12	45:NL:398:TYR:HB2	2.01	0.42
44:NM:75:ILE:HD12	44:NM:75:ILE:H	1.83	0.42
44:NM:157:LEU:CB	44:NM:166:LYS:HE2	2.47	0.42
44:NM:210:TYR:CE2	45:NN:324:LYS:HD3	2.55	0.42
44:NM:331:SER:O	44:NM:335:ILE:HG12	2.20	0.42
45:NN:40:SER:O	45:NN:43:GLN:HB3	2.19	0.42
45:NN:86:ARG:HH21	45:NN:87:PRO:CD	2.33	0.42
44:OA:34:GLY:CA	44:OA:60:LYS:HG3	2.41	0.42
44:OA:179:THR:O	44:OA:179:THR:HG22	2.20	0.42
44:OA:276:ILE:CG1	44:OA:280:LYS:HG3	2.50	0.42
44:OA:319:TYR:HB2	44:OA:354:GLY:O	2.19	0.42
45:OB:206:ALA:HB2	45:OB:301:CYS:HA	2.00	0.42
44:OC:84:ARG:HG3	44:OC:85:GLN:NE2	2.34	0.42
44:OC:183:GLU:HG2	44:OC:184:PRO:N	2.35	0.42
44:OC:229:ARG:NH1	44:OC:363:VAL:HG21	2.20	0.42
44:OC:257:THR:C	45:OF:397:TRP:HH2	2.23	0.42
44:OC:267:PHE:HD1	44:OC:432:TYR:OH	2.02	0.42
45:OD:85:PHE:HB2	45:OD:90:PHE:HZ	1.83	0.42
45:OD:289:LEU:O	45:OD:293:MET:HG3	2.19	0.42
45:OD:414:ASN:HA	45:OD:417:ASP:HB2	2.01	0.42
44:OE:102:ASN:OD1	44:OE:105:ARG:N	2.52	0.42
44:OE:318:MET:HE3	44:OE:318:MET:HA	2.01	0.42
45:OF:101:TRP:CD1	45:OF:145:SER:HB3	2.54	0.42
45:OF:118:ASP:O	45:OF:122:LYS:HG2	2.20	0.42
45:OH:23:VAL:HG13	45:OH:24:ILE:N	2.35	0.42
45:OH:70:PRO:HA	45:OH:73:MET:CG	2.49	0.42
45:OH:166:THR:N	45:OH:198:GLU:O	2.52	0.42
45:OH:240:LEU:CD1	45:OH:250:LEU:HD13	2.50	0.42
45:OH:317:PHE:HB2	45:OH:352:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OK:103:PHE:HD1	44:OK:147:SER:OG	2.03	0.42
45:OL:215:LEU:HB3	45:OL:217:LEU:CG	2.33	0.42
45:OL:239:CYS:HB3	45:OL:354:CYS:HB2	2.02	0.42
45:OL:240:LEU:HD13	45:OL:250:LEU:HD13	2.01	0.42
45:OL:265:PHE:CD1	45:OL:378:PHE:HZ	2.36	0.42
44:OM:189:LEU:HD21	44:OM:418:PHE:HA	2.00	0.42
44:OM:217:LEU:CD2	44:OM:275:ILE:HG22	2.49	0.42
45:ON:4:ILE:CD1	45:ON:250:LEU:HD12	2.49	0.42
45:ON:290:THR:HG23	45:ON:291:GLN:N	2.35	0.42
44:PA:132:LEU:HD22	44:PA:164:LYS:HD2	1.99	0.42
44:PA:206:ASN:CG	46:PA:501:GTP:HN22	2.23	0.42
45:PB:69:GLU:HB3	45:PB:96:GLY:CA	2.50	0.42
45:PB:248:SER:OG	45:PB:253:LEU:HD12	2.19	0.42
44:PC:122:ILE:HG21	44:PC:157:LEU:HD21	2.01	0.42
44:PC:176:GLN:HG2	44:PC:177:VAL:N	2.35	0.42
44:PC:248:LEU:HD22	45:PF:177:ASP:OD2	2.19	0.42
44:PC:315:CYS:HG	44:PC:379:SER:HB3	1.85	0.42
45:PD:70:PRO:HG3	45:PD:92:PHE:CD1	2.54	0.42
45:PD:214:THR:HG22	45:PD:297:LYS:HZ3	1.84	0.42
45:PD:267:MET:HE1	45:PD:373:ALA:HB3	2.00	0.42
45:PD:375:GLN:HG3	45:PD:376:GLU:N	2.34	0.42
44:PE:276:ILE:HD11	44:PE:280:LYS:O	2.19	0.42
45:PF:72:THR:HG23	45:PF:73:MET:N	2.34	0.42
44:PG:68:LEU:CG	44:PG:93:ILE:HD13	2.50	0.42
44:PG:71:GLU:HA	44:PG:72:PRO:HD3	1.92	0.42
44:PG:428:LEU:HG	44:PG:432:TYR:HE2	1.84	0.42
45:PH:186:THR:HA	45:PH:415:MET:CE	2.42	0.42
44:PI:1:MET:HG3	44:PI:1:MET:O	2.19	0.42
44:PI:326:LYS:HG2	45:PL:220:PRO:CG	2.48	0.42
45:PJ:32:PRO:HG3	45:PJ:81:PHE:CE1	2.55	0.42
45:PJ:101:TRP:CG	45:PJ:187:LEU:HD13	2.54	0.42
45:PJ:376:GLU:HA	45:PJ:379:LYS:HB2	2.01	0.42
44:PK:141:VAL:HG22	44:PK:187:SER:HA	2.01	0.42
44:PK:152:LEU:HG	44:PK:156:ARG:HG2	2.01	0.42
44:PK:250:VAL:HG21	44:PK:318:MET:SD	2.60	0.42
44:PK:251:ASP:CB	44:PK:253:THR:HG22	2.49	0.42
44:PK:325:PRO:C	44:PK:328:VAL:HG12	2.40	0.42
45:PL:267:MET:HE2	45:PL:299:MET:CG	2.49	0.42
44:PM:67:PHE:C	44:PM:68:LEU:HD12	2.39	0.42
44:PM:194:LEU:O	44:PM:197:HIS:N	2.46	0.42
44:QA:88:HIS:ND1	44:QA:89:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QA:313:MET:HG2	44:QA:346:TRP:CZ2	2.54	0.42
45:QB:52:ASN:HD21	45:QB:62:ARG:NH2	2.18	0.42
45:QB:77:ARG:NH1	45:QB:90:PHE:CE2	2.87	0.42
45:QB:77:ARG:NH1	45:QB:90:PHE:CZ	2.87	0.42
45:QB:137:HIS:CE1	45:QB:168:SER:HG	2.35	0.42
45:QB:171:PRO:HB2	45:QB:181:GLU:OE1	2.18	0.42
45:QB:244:GLY:HA2	45:QB:355:ASP:CG	2.40	0.42
44:QC:107:HIS:ND1	44:QC:107:HIS:O	2.52	0.42
44:QC:265:ILE:CD1	44:QC:435:VAL:HG21	2.49	0.42
45:QD:256:ASN:ND2	45:QD:350:LYS:HE3	2.35	0.42
45:QF:35:THR:HG22	45:QF:36:TYR:N	2.34	0.42
45:QF:66:MET:HE2	45:QF:147:MET:CE	2.50	0.42
44:QG:31:GLN:CG	44:QG:32:PRO:CD	2.89	0.42
44:QG:310:GLY:CA	44:QG:383:ALA:HB2	2.44	0.42
45:QH:49:VAL:CG1	45:QH:241:ARG:HG2	2.44	0.42
45:QH:97:ALA:O	45:QH:100:ASN:HB3	2.20	0.42
44:QI:257:THR:HG22	45:QJ:397:TRP:CH2	2.55	0.42
44:QI:265:ILE:HD13	44:QI:432:TYR:CE1	2.55	0.42
44:QI:320:ARG:HG3	44:QI:360:PRO:CD	2.49	0.42
45:QJ:100:ASN:ND2	45:QJ:103:LYS:H	2.18	0.42
45:QJ:164:MET:CE	45:QJ:196:ALA:HA	2.50	0.42
44:QK:54:SER:O	44:QK:62:VAL:HG23	2.20	0.42
44:QK:90:GLU:O	44:QK:121:ARG:HD2	2.20	0.42
44:QK:115:VAL:O	44:QK:118:CYS:HB3	2.20	0.42
44:QM:124:LYS:HG3	44:QM:125:LEU:N	2.34	0.42
45:QN:1:MET:C	45:QN:2:ARG:HG2	2.39	0.42
45:QN:110:ALA:HA	45:QN:113:ILE:HG22	2.01	0.42
45:QN:167:PHE:CD2	45:QN:200:MET:HG2	2.55	0.42
45:QN:286:VAL:HB	45:QN:287:PRO:HD3	2.01	0.42
45:QN:318:ARG:CB	45:QN:357:PRO:HA	2.42	0.42
44:RA:9:VAL:CG1	44:RA:139:ASN:HB3	2.49	0.42
44:RA:30:ILE:HG23	44:RA:36:MET:HE1	2.02	0.42
45:RB:66:MET:HE3	45:RB:91:VAL:O	2.19	0.42
44:RC:72:PRO:O	44:RC:75:ILE:N	2.52	0.42
45:RD:52:ASN:HD21	45:RD:62:ARG:CA	2.32	0.42
45:RD:60:VAL:O	45:RD:60:VAL:HG13	2.19	0.42
45:RD:61:PRO:HD2	45:RD:84:LEU:O	2.19	0.42
45:RD:326:VAL:HG12	45:RD:330:MET:HG3	2.02	0.42
44:RE:2:ARG:HD3	44:RE:242:LEU:CD2	2.49	0.42
44:RE:147:SER:HB2	44:RE:190:SER:HB3	2.02	0.42
44:RE:314:ALA:CB	44:RE:380:ASN:HB3	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RE:427:ALA:HA	44:RE:430:LYS:HB3	2.02	0.42
45:RF:204:ASN:HA	45:RF:207:LEU:CD1	2.50	0.42
45:RF:217:LEU:HD11	45:RF:220:PRO:HG3	2.02	0.42
45:RF:257:LEU:HB3	45:RF:266:PHE:CE2	2.54	0.42
45:RF:265:PHE:O	45:RF:266:PHE:HD1	2.03	0.42
44:RG:141:VAL:HG11	44:RG:172:TYR:HA	2.02	0.42
44:RG:206:ASN:O	44:RG:209:ILE:N	2.51	0.42
44:RG:208:ALA:O	44:RG:211:ASP:HB2	2.20	0.42
44:RG:208:ALA:O	44:RG:211:ASP:N	2.53	0.42
45:RH:245:GLN:C	45:RH:246:LEU:HD12	2.40	0.42
45:RH:350:LYS:CG	45:RH:351:SER:H	2.32	0.42
45:RJ:258:ILE:CG1	45:RJ:266:PHE:HZ	2.33	0.42
45:RJ:293:MET:CA	45:RJ:298:ASN:HD22	2.33	0.42
44:RK:295:ALA:HA	44:RK:377:MET:HE3	2.00	0.42
45:RL:379:LYS:HG2	45:RL:419:VAL:HG11	2.01	0.42
45:RL:403:MET:HG2	45:RL:404:ASP:N	2.34	0.42
44:RM:164:LYS:HD2	44:RM:164:LYS:HA	1.87	0.42
44:RM:271:SER:HB2	44:RM:377:MET:HG3	1.96	0.42
44:RM:318:MET:HB3	44:RM:376:CYS:HB3	2.02	0.42
44:SA:140:SER:HB2	46:SA:501:GTP:HI'	2.01	0.42
44:SA:296:PHE:CD2	44:SA:335:ILE:HD12	2.55	0.42
45:SB:245:GLN:O	44:SC:15:GLN:NE2	2.53	0.42
45:SB:286:VAL:C	45:SB:289:LEU:H	2.23	0.42
44:SC:239:THR:CB	44:SC:242:LEU:HD12	2.50	0.42
44:SC:354:GLY:C	44:SC:355:ILE:HG13	2.40	0.42
44:SE:318:MET:N	44:SE:376:CYS:O	2.35	0.42
44:SE:325:PRO:HG3	44:SE:355:ILE:HD13	2.01	0.42
45:SF:269:GLY:O	45:SF:367:PHE:HB3	2.19	0.42
45:SF:413:SER:O	45:SF:417:ASP:N	2.46	0.42
44:SG:54:SER:O	44:SG:61:HIS:HB3	2.19	0.42
44:SG:295:ALA:CB	44:SG:377:MET:HE1	2.49	0.42
45:SH:242:PHE:CG	45:SH:356:ILE:HG13	2.54	0.42
44:SI:66:VAL:HG22	44:SI:68:LEU:CD1	2.50	0.42
44:SI:145:THR:HG23	44:SI:146:GLY:N	2.34	0.42
44:SI:270:SER:HA	44:SI:377:MET:SD	2.60	0.42
44:SI:317:MET:CE	44:SI:332:ILE:HD11	2.49	0.42
45:SJ:217:LEU:HD11	45:SJ:220:PRO:CG	2.49	0.42
45:SL:97:ALA:HB1	45:SL:143:THR:H	1.85	0.42
45:SL:310:TYR:HB2	45:SL:340:TYR:O	2.19	0.42
45:SN:200:MET:CE	45:SN:268:ILE:HD13	2.49	0.42
44:TA:75:ILE:CG2	44:TA:94:SER:HB2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TA:372:MET:CG	44:TA:373:ARG:HG3	2.37	0.42
45:TB:258:ILE:HD13	45:TB:266:PHE:CZ	2.54	0.42
45:TB:285:THR:HB	45:TB:287:PRO:HD2	2.01	0.42
44:TE:171:ILE:HG12	44:TE:204:LEU:CB	2.37	0.42
44:TE:349:THR:OG1	45:TF:176:SER:OG	2.26	0.42
44:TE:377:MET:O	44:TE:377:MET:HG2	2.19	0.42
45:TF:113:ILE:HD11	45:TF:151:LEU:N	2.33	0.42
45:TF:396:HIS:NE2	45:TF:397:TRP:CD1	2.87	0.42
44:TG:158:SER:O	44:TG:162:GLY:N	2.48	0.42
44:TG:305:CYS:SG	44:TG:306:ASP:N	2.93	0.42
45:TH:20:PHE:O	45:TH:24:ILE:HG12	2.20	0.42
45:TJ:72:THR:O	45:TJ:76:VAL:HB	2.20	0.42
45:TJ:72:THR:CG2	45:TJ:73:MET:SD	3.05	0.42
45:TJ:167:PHE:CZ	45:TJ:233:MET:SD	3.13	0.42
45:TJ:372:THR:CB	45:TJ:426:GLN:HE21	2.32	0.42
44:TK:174:SER:OG	44:TK:207:GLU:HB2	2.20	0.42
44:TK:203:MET:SD	44:TK:384:ILE:HD11	2.59	0.42
44:TK:348:PRO:HB2	45:TL:384:GLN:OE1	2.20	0.42
45:TL:331:LEU:C	45:TL:334:GLN:HG2	2.38	0.42
45:TN:204:ASN:O	45:TN:207:LEU:N	2.52	0.42
44:UA:49:PHE:HD1	44:UA:53:PHE:HB2	1.85	0.42
44:UA:156:ARG:O	44:UA:159:VAL:HG12	2.19	0.42
44:UA:188:ILE:HD11	44:UA:391:LEU:HB3	2.00	0.42
45:UB:144:GLY:N	48:UB:501:GDP:O1B	2.53	0.42
45:UB:247:ASN:ND2	44:UC:71:GLU:HG3	2.34	0.42
45:UD:256:ASN:OD1	44:UE:181:VAL:HG22	2.20	0.42
45:UD:375:GLN:HE22	45:UD:423:GLN:HB2	1.84	0.42
44:UE:166:LYS:O	44:UE:198:THR:HG23	2.19	0.42
44:UE:270:SER:HB3	44:UE:378:ILE:HD13	2.01	0.42
45:UF:67:ASP:OD2	45:UF:72:THR:HG21	2.19	0.42
45:UF:217:LEU:HD12	45:UF:217:LEU:C	2.40	0.42
44:UG:145:THR:N	46:UG:501:GTP:O2G	2.43	0.42
45:UH:178:THR:CG2	45:UH:179:VAL:H	2.33	0.42
45:UH:317:PHE:CB	45:UH:321:MET:SD	3.05	0.42
45:UH:324:LYS:HE2	44:UI:210:TYR:CG	2.55	0.42
45:UH:379:LYS:O	45:UH:382:ALA:HB3	2.20	0.42
44:UI:5:ILE:O	44:UI:135:PHE:HA	2.20	0.42
44:UI:180:ALA:HB3	44:UI:183:GLU:OE1	2.19	0.42
44:UI:188:ILE:HD11	44:UI:391:LEU:HB3	2.00	0.42
44:UI:207:GLU:O	44:UI:210:TYR:HB2	2.19	0.42
44:UI:346:TRP:HB3	45:UJ:391:ARG:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:17:GLY:O	45:UJ:21:TRP:N	2.40	0.42
44:UK:63:PRO:HG2	44:UK:86:LEU:HG	2.00	0.42
45:UL:2:ARG:H	45:UL:129:CYS:HB2	1.85	0.42
45:UL:404:ASP:OD1	45:UL:406:MET:HB2	2.19	0.42
44:UM:290:GLU:O	44:UM:293:ASN:N	2.52	0.42
44:UM:385:ALA:HA	44:UM:388:PHE:HD2	1.83	0.42
45:UN:68:LEU:HB3	45:UN:96:GLY:CA	2.39	0.42
45:UN:272:PRO:HG3	45:UN:289:LEU:HD22	2.00	0.42
45:VB:372:THR:HA	45:VB:422:TYR:OH	2.20	0.42
44:VC:9:VAL:HG11	44:VC:149:LEU:CB	2.42	0.42
44:VC:169:PHE:CE1	44:VC:202:VAL:HG21	2.54	0.42
44:VC:238:LEU:O	44:VC:238:LEU:HD23	2.19	0.42
45:VD:151:LEU:O	45:VD:155:VAL:HG13	2.19	0.42
45:VD:288:GLU:C	45:VD:291:GLN:HG3	2.39	0.42
44:VE:210:TYR:CD1	45:VF:324:LYS:HD2	2.55	0.42
44:VG:217:LEU:CD2	44:VG:275:ILE:HG22	2.44	0.42
45:VH:263:LEU:HG	45:VH:422:TYR:CD1	2.54	0.42
44:VI:407:TRP:CH2	45:VJ:254:ALA:HB1	2.55	0.42
45:VJ:215:LEU:HD23	45:VJ:215:LEU:HA	1.84	0.42
44:VK:234:VAL:HG13	44:VK:235:ILE:N	2.34	0.42
44:VK:323:VAL:HG13	44:VK:323:VAL:O	2.20	0.42
45:VL:180:VAL:HG22	45:VL:180:VAL:O	2.20	0.42
45:VL:412:GLU:HA	45:VL:415:MET:CE	2.49	0.42
45:VN:257:LEU:HD11	45:VN:314:SER:HB2	2.01	0.42
44:WA:13:GLY:HA2	44:WA:16:VAL:HG12	2.01	0.42
45:WB:51:TYR:HB3	45:WB:59:TYR:CD2	2.55	0.42
45:WB:241:ARG:C	45:WB:242:PHE:HD1	2.22	0.42
45:WB:406:MET:O	45:WB:410:GLU:HG3	2.19	0.42
44:WC:92:LEU:HD12	44:WC:92:LEU:N	2.35	0.42
44:WC:122:ILE:O	44:WC:125:LEU:HB2	2.19	0.42
44:WC:224:TYR:HD1	44:WC:227:LEU:HD12	1.85	0.42
44:WC:348:PRO:HD2	45:WF:388:MET:CE	2.49	0.42
45:WD:186:THR:HG21	45:WD:385:PHE:CB	2.49	0.42
45:WD:320:ARG:O	45:WD:320:ARG:HG2	2.18	0.42
44:WE:2:ARG:HD2	44:WE:242:LEU:HD22	2.00	0.42
44:WE:268:MET:HB2	44:WE:380:ASN:CA	2.50	0.42
44:WE:349:THR:HG23	45:WH:384:GLN:HE22	1.85	0.42
45:WF:4:ILE:HB	45:WF:132:GLY:O	2.19	0.42
45:WF:20:PHE:HA	45:WF:230:SER:CB	2.48	0.42
44:WG:42:ILE:O	44:WG:42:ILE:HG22	2.19	0.42
44:WG:254:GLU:O	44:WG:255:PHE:CD1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:275:ILE:O	44:WG:275:ILE:CG2	2.67	0.42
44:WG:285:GLN:O	44:WG:286:LEU:HB2	2.19	0.42
44:WG:402:ARG:C	44:WG:405:VAL:HG23	2.40	0.42
45:WH:25:SER:CA	45:WH:30:ILE:HB	2.49	0.42
45:WH:229:VAL:O	45:WH:232:ALA:N	2.53	0.42
44:WI:122:ILE:O	44:WI:125:LEU:N	2.52	0.42
45:WJ:207:LEU:HD13	45:WJ:225:LEU:CB	2.47	0.42
44:WM:70:LEU:HD13	44:WM:110:ILE:CD1	2.49	0.42
44:WM:101:ASN:OD1	44:WM:101:ASN:O	2.37	0.42
44:WM:248:LEU:HD21	44:WM:353:VAL:C	2.39	0.42
44:WM:384:ILE:O	44:WM:387:VAL:HG22	2.20	0.42
45:WN:48:ASN:HA	45:WN:51:TYR:O	2.20	0.42
1:6H:217:GLN:HG3	45:FD:320:ARG:NH2	2.32	0.42
1:6H:250:GLU:HA	45:FF:360:GLY:HA2	2.01	0.42
1:6H:283:LEU:HD12	44:FE:357:TYR:OH	2.19	0.42
5:0D:93:GLN:OE1	44:EC:31:GLN:HG2	2.18	0.42
7:0F:209:LYS:CB	44:FC:279:GLU:HG3	2.45	0.42
10:0N:215:CYS:SG	45:KN:32:PRO:HG2	2.59	0.42
2:1A:91:ASN:CB	45:MF:37:HIS:NE2	2.79	0.42
19:1I:189:PHE:HZ	45:KH:94:GLN:HG3	1.80	0.42
22:1L:892:ARG:HE	44:CC:279:GLU:H	1.66	0.42
26:1R:27:ALA:HB2	45:MF:74:ASP:OD1	2.19	0.42
13:1T:127:GLU:HB3	44:AC:337:THR:HG21	2.00	0.42
30:2G:14:TYR:HE2	44:KG:336:LYS:HZ1	1.65	0.42
22:2L:753:ARG:HB2	45:BL:362:LYS:HZ3	1.84	0.42
28:3C:4:TYR:CG	45:LB:359:LYS:HE2	2.54	0.42
14:3U:226:ILE:HG13	44:WK:41:THR:CG2	2.49	0.42
37:5B:76:ILE:HG23	45:NF:40:SER:HA	2.02	0.42
37:5C:110:ARG:HH21	44:NI:281:ALA:CA	2.16	0.42
37:5D:34:PHE:CE2	44:KK:430:LYS:HA	2.55	0.42
37:5D:40:VAL:HG11	44:KK:380:ASN:CB	2.15	0.42
38:5G:36:PRO:O	38:5G:37:PRO:HD2	2.19	0.42
38:5G:116:TYR:CG	44:NI:85:GLN:HG2	2.55	0.42
38:5H:47:GLU:CG	44:OK:324:VAL:HG22	2.50	0.42
39:5J:43:PRO:HB3	39:5J:47:PHE:CZ	2.55	0.42
11:5Q:25:TRP:HA	11:5Q:61:ALA:O	2.20	0.42
11:5Q:162:ILE:O	11:5Q:162:ILE:HG13	2.20	0.42
35:5R:127:ILE:HD11	35:5R:150:ILE:CB	2.49	0.42
35:5R:477:ASN:HA	35:5R:485:TYR:HE1	1.79	0.42
35:5R:546:ASP:O	35:5R:550:VAL:HG22	2.20	0.42
35:5R:549:MET:HG2	35:5R:606:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5S:180:VAL:HG23	36:5S:183:TYR:CE2	2.55	0.42
41:6G:215:GLN:O	41:6G:218:GLU:HB2	2.20	0.42
41:6G:242:ASP:O	41:6G:243:ASN:OD1	2.38	0.42
35:6R:286:GLU:OE1	35:6R:288:LYS:HG3	2.20	0.42
35:7R:275:ILE:CB	35:7R:288:LYS:HB2	2.48	0.42
35:7R:361:LEU:HD13	35:7R:367:GLN:CB	2.48	0.42
42:8N:282:UNK:HA	44:RC:370:LYS:HZ3	1.84	0.42
43:8P:183:UNK:O	43:8P:187:UNK:N	2.52	0.42
43:8P:274:UNK:C	43:8P:276:UNK:H	2.32	0.42
44:AA:361:THR:O	44:AA:361:THR:HG23	2.20	0.42
45:AB:170:VAL:O	45:AB:170:VAL:HG23	2.20	0.42
44:AC:7:ILE:HD11	44:AC:122:ILE:HD11	2.01	0.42
44:AC:363:VAL:O	44:AC:363:VAL:HG23	2.20	0.42
45:AD:135:ILE:HG12	45:AD:164:MET:HE3	2.00	0.42
45:AD:272:PRO:HB3	45:AD:289:LEU:HD23	2.01	0.42
44:AE:23:LEU:HD21	44:AE:236:SER:HB3	2.00	0.42
45:AF:130:LEU:HD23	45:AF:131:GLN:N	2.34	0.42
45:AF:238:CYS:SG	45:AF:239:CYS:N	2.93	0.42
45:AH:4:ILE:HD11	45:AH:131:GLN:CG	2.50	0.42
45:AH:289:LEU:HD23	45:AH:289:LEU:HA	1.88	0.42
44:AI:319:TYR:HB2	44:AI:355:ILE:CD1	2.40	0.42
44:AI:356:ASN:OD1	44:AI:357:TYR:N	2.51	0.42
44:AI:407:TRP:HH2	45:AJ:254:ALA:HB1	1.85	0.42
45:AJ:21:TRP:CA	45:AJ:24:ILE:HG22	2.47	0.42
45:AL:258:ILE:HG13	45:AL:266:PHE:CZ	2.51	0.42
44:BA:66:VAL:HG22	44:BA:67:PHE:N	2.35	0.42
44:BA:318:MET:SD	44:BA:354:GLY:HA3	2.60	0.42
45:BD:156:ARG:NH1	45:BD:195:ASN:HA	2.34	0.42
45:BD:214:THR:O	45:BD:275:SER:HB3	2.20	0.42
45:BD:221:THR:CG2	45:BD:224:ASP:H	2.32	0.42
45:BD:248:SER:OG	45:BD:252:LYS:HD2	2.19	0.42
45:BF:16:ILE:HD13	45:BF:226:ASN:OD1	2.19	0.42
44:BG:399:TYR:CD2	44:BG:399:TYR:O	2.73	0.42
45:BJ:341:PHE:HD2	45:BJ:348:ASN:ND2	2.17	0.42
44:BK:79:ARG:NH2	44:BK:92:LEU:HB2	2.35	0.42
44:BK:79:ARG:O	44:BK:79:ARG:HG2	2.18	0.42
44:BK:278:ALA:N	44:BK:369:ALA:HB2	2.35	0.42
45:BL:52:ASN:HB2	45:BL:62:ARG:CD	2.42	0.42
45:BL:382:ALA:O	45:BL:386:THR:HG23	2.20	0.42
45:BN:194:GLU:HB3	45:BN:195:ASN:OD1	2.18	0.42
44:CA:37:PRO:HB2	44:CA:40:LYS:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CA:51:THR:HG21	44:CA:242:LEU:HD11	2.02	0.42
44:CA:176:GLN:NE2	44:CA:207:GLU:OE2	2.53	0.42
45:CB:313:ALA:HA	45:CB:369:GLY:HA2	2.02	0.42
44:CC:35:GLN:NE2	44:CC:60:LYS:HB3	2.34	0.42
44:CC:102:ASN:OD1	44:CC:104:ALA:N	2.31	0.42
45:CD:34:GLY:O	45:CD:58:ARG:HA	2.20	0.42
45:CD:294:PHE:CE2	45:CD:330:MET:HE1	2.54	0.42
44:CE:384:ILE:O	44:CE:384:ILE:HG13	2.19	0.42
45:CF:140:GLY:O	45:CF:184:ASN:ND2	2.52	0.42
44:CI:107:HIS:O	44:CI:107:HIS:ND1	2.53	0.42
45:CJ:129:CYS:SG	44:CK:96:LYS:HD3	2.60	0.42
45:CJ:173:PRO:CG	45:CJ:380:ARG:HD3	2.48	0.42
44:CK:231:ILE:O	44:CK:234:VAL:N	2.52	0.42
45:CL:110:ALA:CA	45:CL:113:ILE:HG22	2.49	0.42
45:CL:181:GLU:N	45:CL:182:PRO:HD2	2.34	0.42
45:CL:263:LEU:HD21	45:CL:425:TYR:CD2	2.54	0.42
44:CM:4:VAL:HG12	44:CM:51:THR:HG22	2.02	0.42
44:CM:338:LYS:HZ3	44:CM:340:THR:CG2	2.31	0.42
45:CN:213:ARG:O	45:CN:216:LYS:HG2	2.19	0.42
45:DB:72:THR:HG23	45:DB:73:MET:N	2.35	0.42
44:DC:344:VAL:HG11	44:DC:346:TRP:CE2	2.55	0.42
44:DE:8:HIS:CD2	44:DE:138:PHE:HB2	2.55	0.42
44:DE:88:HIS:CD2	44:EE:283:HIS:HB2	2.55	0.42
44:DE:260:VAL:O	44:DE:260:VAL:CG1	2.67	0.42
45:DF:99:ASN:HA	45:DF:142:GLY:N	2.35	0.42
45:DF:280:GLN:HA	45:DF:281:TYR:C	2.36	0.42
44:DG:291:ILE:HG13	44:DG:292:THR:N	2.34	0.42
44:DI:297:GLU:OE2	44:DI:300:ASN:HB2	2.19	0.42
45:DJ:181:GLU:N	45:DJ:182:PRO:CD	2.82	0.42
45:DJ:238:CYS:SG	45:DJ:239:CYS:N	2.93	0.42
44:DK:137:VAL:CG2	44:DK:154:LEU:HD21	2.49	0.42
45:DL:246:LEU:CD1	45:DL:353:ILE:HD13	2.49	0.42
45:DL:381:VAL:HG13	45:DL:384:GLN:HE21	1.85	0.42
44:DM:89:PRO:CG	44:EM:280:LYS:HB3	2.50	0.42
44:DM:240:ALA:HA	44:DM:243:ARG:HG2	2.00	0.42
45:DN:111:GLU:OE2	45:DN:112:LEU:HB2	2.20	0.42
45:DN:358:PRO:HG2	45:DN:364:ALA:CB	2.50	0.42
44:EA:209:ILE:HB	44:EA:227:LEU:CD2	2.49	0.42
44:EA:259:LEU:HB3	44:EA:268:MET:SD	2.60	0.42
45:EB:102:ALA:HB1	45:EB:403:MET:CE	2.49	0.42
45:EB:256:ASN:O	45:EB:257:LEU:HD12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:6:SER:O	44:EC:7:ILE:HD13	2.20	0.42
44:EC:301:MET:HG3	44:EC:307:PRO:HD3	2.02	0.42
44:EC:318:MET:O	44:EC:376:CYS:N	2.40	0.42
45:ED:290:THR:N	45:ED:293:MET:HE2	2.35	0.42
44:EE:261:PRO:HA	45:EF:394:PHE:CZ	2.54	0.42
44:EE:346:TRP:HD1	45:EF:391:ARG:NH1	2.18	0.42
45:EF:145:SER:HB2	45:EF:184:ASN:HB2	2.02	0.42
45:EF:251:ARG:HA	45:EF:254:ALA:CB	2.43	0.42
45:EH:204:ASN:HA	45:EH:207:LEU:CG	2.50	0.42
45:EH:253:LEU:HD21	45:EH:316:LEU:HD11	2.02	0.42
45:EH:378:PHE:CA	45:EH:381:VAL:HG22	2.48	0.42
44:EI:307:PRO:HA	44:EI:383:ALA:CB	2.49	0.42
45:EJ:8:GLN:HE21	45:EJ:65:LEU:HD12	1.84	0.42
44:EK:11:GLN:HA	44:EK:14:ILE:HD12	2.02	0.42
44:EK:30:ILE:CG1	44:EK:36:MET:HE1	2.48	0.42
44:EK:89:PRO:CD	44:FI:280:LYS:HZ2	2.33	0.42
44:EK:253:THR:HG23	44:EK:254:GLU:HG3	2.01	0.42
44:EK:268:MET:HB3	44:EK:380:ASN:HB2	2.02	0.42
45:EL:169:VAL:HG22	45:EL:202:ILE:CB	2.37	0.42
44:EM:405:VAL:HG12	44:EM:409:VAL:CG2	2.23	0.42
45:FB:193:VAL:HG23	45:FB:264:HIS:HE1	1.85	0.42
45:FB:193:VAL:HA	45:FB:264:HIS:NE2	2.35	0.42
44:FC:182:VAL:HG22	44:FC:182:VAL:O	2.20	0.42
45:FD:36:TYR:CZ	45:FD:44:LEU:HD11	2.55	0.42
45:FD:65:LEU:HD22	45:FD:90:PHE:HE1	1.83	0.42
45:FD:381:VAL:HB	45:FD:415:MET:CE	2.49	0.42
45:FH:209:ASP:OD1	45:FH:213:ARG:HD3	2.19	0.42
44:FI:36:MET:HG3	44:FI:36:MET:O	2.19	0.42
45:FJ:257:LEU:HD11	45:FJ:314:SER:CB	2.50	0.42
44:FK:205:ASP:OD2	44:FK:303:ALA:HB1	2.20	0.42
44:FK:290:GLU:HA	44:FK:293:ASN:HB2	2.02	0.42
44:FK:403:ALA:O	44:FK:404:PHE:HB2	2.19	0.42
44:FM:30:ILE:CG2	44:FM:34:GLY:HA2	2.50	0.42
44:FM:123:ARG:HH12	44:GM:297:GLU:HG2	1.84	0.42
44:FM:136:LEU:HB3	44:FM:138:PHE:CZ	2.55	0.42
44:FM:311:LYS:CD	44:FM:342:GLN:HG3	2.46	0.42
44:GA:66:VAL:HG22	44:GA:68:LEU:HD12	2.02	0.42
44:GA:115:VAL:O	44:GA:119:LEU:HD23	2.20	0.42
44:GA:118:CYS:SG	44:GA:122:ILE:HG13	2.60	0.42
44:GC:318:MET:CE	44:GC:318:MET:HA	2.49	0.42
44:GE:71:GLU:OE1	44:GE:73:THR:HB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GE:121:ARG:HD3	44:GE:125:LEU:CD2	2.50	0.42
44:GE:252:ILE:HD13	44:GE:255:PHE:CE2	2.55	0.42
45:GF:73:MET:SD	45:GF:90:PHE:HD1	2.43	0.42
44:GG:140:SER:OG	46:GG:501:GTP:H4'	2.20	0.42
44:GG:384:ILE:HG13	44:GG:387:VAL:CG2	2.49	0.42
45:GJ:5:VAL:HG22	45:GJ:6:HIS:N	2.35	0.42
45:GL:273:LEU:H	45:GL:292:GLN:HE22	1.68	0.42
44:GM:75:ILE:HG23	44:GM:92:LEU:HD23	2.02	0.42
44:GM:270:SER:CB	44:GM:378:ILE:HG13	2.49	0.42
45:GN:251:ARG:O	45:GN:255:VAL:HG23	2.19	0.42
44:HA:238:LEU:O	44:HA:238:LEU:HD23	2.20	0.42
44:HC:89:PRO:HD3	44:IC:283:HIS:CE1	2.55	0.42
44:HE:278:ALA:HA	44:HE:369:ALA:CB	2.47	0.42
44:HG:108:TYR:CE2	44:HG:413:MET:HG2	2.55	0.42
44:HG:324:VAL:HG12	44:HG:326:LYS:HG3	2.02	0.42
44:HG:362:VAL:O	44:HG:362:VAL:HG13	2.20	0.42
45:HH:32:PRO:HG3	45:HH:81:PHE:CE1	2.54	0.42
45:HH:237:THR:OG1	45:HH:250:LEU:HD21	2.20	0.42
44:HI:96:LYS:HD2	45:HJ:1:MET:HE1	1.99	0.42
44:HI:224:TYR:OH	46:HI:501:GTP:H1'	2.20	0.42
45:HJ:8:GLN:OE1	45:HJ:17:GLY:HA3	2.19	0.42
44:HK:188:ILE:HD12	44:HK:425:LEU:HD12	2.00	0.42
44:HK:203:MET:CB	44:HK:303:ALA:HB2	2.48	0.42
44:HK:288:VAL:HA	44:HK:291:ILE:HG12	2.01	0.42
45:HL:163:ILE:O	45:HL:163:ILE:HG13	2.19	0.42
45:HL:272:PRO:HD3	45:HL:289:LEU:HD21	2.02	0.42
45:HL:399:THR:O	45:HL:399:THR:HG22	2.20	0.42
44:IA:182:VAL:HG12	45:IB:256:ASN:OD1	2.19	0.42
45:IB:206:ALA:HB3	45:IB:300:MET:O	2.19	0.42
45:IB:317:PHE:CE1	45:IB:326:VAL:HG13	2.55	0.42
45:ID:122:LYS:HD2	45:ID:123:GLU:N	2.35	0.42
45:ID:380:ARG:HE	45:ID:380:ARG:HB3	1.69	0.42
45:ID:404:ASP:N	45:ID:404:ASP:OD1	2.50	0.42
44:IE:326:LYS:HB2	44:IE:326:LYS:HE3	1.41	0.42
45:IF:4:ILE:HD11	45:IF:50:TYR:OH	2.20	0.42
44:IG:173:PRO:CG	44:IG:391:LEU:HD21	2.48	0.42
44:IG:185:TYR:O	44:IG:189:LEU:HD12	2.19	0.42
44:IG:221:ARG:CD	45:IH:322:SER:OG	2.68	0.42
45:IH:113:ILE:CD1	45:IH:150:LEU:HD22	2.49	0.42
45:IH:166:THR:O	45:IH:199:CYS:HA	2.20	0.42
45:IH:178:THR:HG22	45:IH:180:VAL:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IH:325:GLU:O	45:IH:328:GLU:HG2	2.19	0.42
45:IH:415:MET:O	45:IH:419:VAL:HG23	2.20	0.42
44:II:261:PRO:HA	45:IL:394:PHE:CE1	2.54	0.42
44:II:280:LYS:HE3	44:II:283:HIS:CE1	2.55	0.42
44:II:288:VAL:HG23	44:II:291:ILE:HD11	2.00	0.42
44:IK:413:MET:HG3	44:IK:417:GLU:HG3	2.01	0.42
45:IL:242:PHE:CD1	45:IL:356:ILE:HG13	2.55	0.42
45:IL:360:GLY:O	45:IL:361:LEU:HD22	2.19	0.42
45:IN:21:TRP:CZ3	45:IN:61:PRO:HB3	2.55	0.42
45:JB:303:ALA:CB	45:JB:376:GLU:HB3	2.50	0.42
44:JC:99:ALA:O	44:JC:100:ALA:HB3	2.20	0.42
44:JC:258:ASN:HD21	44:JC:352:LYS:CB	2.33	0.42
44:JC:268:MET:CB	44:JC:380:ASN:HB2	2.46	0.42
45:JD:178:THR:HB	45:JD:181:GLU:CG	2.50	0.42
45:JD:345:ILE:O	45:JD:345:ILE:HG23	2.19	0.42
44:JE:4:VAL:O	44:JE:4:VAL:HG23	2.19	0.42
44:JE:205:ASP:OD1	44:JE:205:ASP:N	2.53	0.42
44:JG:270:SER:CB	44:JG:378:ILE:HD13	2.46	0.42
44:JG:407:TRP:HE1	45:JH:258:ILE:CG1	2.33	0.42
45:JH:36:TYR:CE1	45:JH:38:GLY:HA3	2.54	0.42
45:JH:61:PRO:CD	45:JH:84:LEU:HB3	2.49	0.42
44:JI:33:ASP:OD1	44:JI:34:GLY:N	2.53	0.42
44:JI:351:PHE:N	45:JL:179:VAL:HG12	2.34	0.42
45:JJ:5:VAL:HG12	45:JJ:62:ARG:HD3	2.01	0.42
45:JJ:8:GLN:OE1	45:JJ:17:GLY:HA3	2.20	0.42
45:JJ:152:ILE:HG23	45:JJ:164:MET:SD	2.60	0.42
45:JJ:209:ASP:O	45:JJ:213:ARG:HG2	2.20	0.42
44:JK:77:GLU:CD	44:JK:78:VAL:HG23	2.39	0.42
44:JK:195:LEU:HD12	44:JK:267:PHE:HE1	1.84	0.42
45:JL:267:MET:HG3	45:JL:299:MET:CE	2.50	0.42
44:JM:102:ASN:ND2	44:JM:411:GLU:HG3	2.34	0.42
44:KA:261:PRO:HG2	44:KA:313:MET:HE1	2.00	0.42
45:KB:198:GLU:OE2	45:KB:254:ALA:HA	2.20	0.42
45:KB:337:ASN:HB3	45:KB:340:TYR:CD2	2.54	0.42
44:KC:254:GLU:O	44:KC:255:PHE:CD1	2.73	0.42
44:KC:324:VAL:HG21	45:KF:219:THR:HG21	2.00	0.42
45:KD:68:LEU:CD2	45:KD:112:LEU:HD23	2.50	0.42
45:KD:191:GLN:HA	45:KD:194:GLU:OE1	2.20	0.42
45:KD:308:GLY:HA3	45:KD:372:THR:CG2	2.50	0.42
45:KD:418:LEU:HA	45:KD:421:GLU:CG	2.49	0.42
44:KE:141:VAL:HG11	44:KE:172:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:183:GLU:CD	44:KE:184:PRO:HD3	2.40	0.42
44:KE:195:LEU:HD13	44:KE:428:LEU:CD1	2.42	0.42
45:KF:286:VAL:N	45:KF:287:PRO:CD	2.81	0.42
44:KG:132:LEU:HG	44:KG:132:LEU:O	2.20	0.42
44:KG:375:VAL:CG2	44:KG:377:MET:HE3	2.50	0.42
45:KH:310:TYR:CD1	45:KH:371:SER:HB2	2.55	0.42
45:KH:396:HIS:O	45:KH:399:THR:HG22	2.20	0.42
44:KI:55:GLU:O	44:LI:285:GLN:NE2	2.52	0.42
44:KI:270:SER:C	44:KI:302:MET:HE3	2.40	0.42
45:KJ:152:ILE:CD1	45:KJ:164:MET:HE1	2.48	0.42
45:KJ:377:MET:HB3	45:KJ:377:MET:HE2	1.91	0.42
45:KJ:427:ASP:O	45:KJ:427:ASP:OD1	2.38	0.42
44:KK:288:VAL:HA	44:KK:291:ILE:HG12	2.02	0.42
45:KL:189:VAL:HA	45:KL:192:LEU:HB2	2.02	0.42
45:KL:242:PHE:HD2	45:KL:356:ILE:HB	1.85	0.42
45:KL:276:ARG:HH11	45:KL:279:GLN:HE21	1.67	0.42
45:KL:330:MET:CE	45:KL:330:MET:HA	2.50	0.42
44:KM:7:ILE:HG23	44:KM:66:VAL:HG11	2.02	0.42
44:KM:182:VAL:C	44:KM:184:PRO:HD2	2.40	0.42
44:KM:205:ASP:CG	44:KM:303:ALA:HA	2.39	0.42
44:KM:304:LYS:HD2	44:KM:304:LYS:HA	1.75	0.42
45:KN:10:GLY:HA2	45:KN:143:THR:HG21	2.00	0.42
45:KN:10:GLY:O	45:KN:14:ASN:N	2.49	0.42
45:KN:100:ASN:OD1	45:KN:398:TYR:CE1	2.73	0.42
45:LB:136:THR:CB	45:LB:167:PHE:HB2	2.50	0.42
45:LB:186:THR:HG23	45:LB:187:LEU:N	2.35	0.42
45:LB:358:PRO:HG2	45:LB:364:ALA:HB3	2.00	0.42
45:LD:21:TRP:HA	45:LD:24:ILE:HG22	2.02	0.42
44:LE:145:THR:HG21	46:LE:501:GTP:O3G	2.20	0.42
44:LE:205:ASP:OD1	44:LE:303:ALA:HA	2.20	0.42
45:LF:19:LYS:CB	45:LF:226:ASN:HB3	2.50	0.42
45:LF:158:GLU:HG2	45:LF:159:TYR:CE1	2.55	0.42
44:LI:200:VAL:HG13	44:LI:268:MET:HE3	2.01	0.42
45:LJ:45:GLU:C	45:LJ:46:ARG:HD2	2.39	0.42
45:LL:238:CYS:CB	45:LL:318:ARG:HH12	2.31	0.42
44:LM:137:VAL:O	44:LM:137:VAL:HG13	2.19	0.42
44:LM:187:SER:HA	44:LM:190:SER:OG	2.20	0.42
44:LM:220:GLU:OE1	44:LM:221:ARG:NH1	2.52	0.42
45:LN:118:ASP:HA	45:LN:121:ARG:HH12	1.85	0.42
45:LN:138:SER:HA	45:LN:169:VAL:HG22	2.01	0.42
45:MB:60:VAL:CG2	45:MB:86:ARG:HD2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MC:194:LEU:HD11	44:MC:267:PHE:CE2	2.54	0.42
45:MD:66:MET:CE	45:MD:147:MET:SD	3.07	0.42
44:ME:224:TYR:O	44:ME:227:LEU:N	2.53	0.42
44:ME:230:LEU:CD1	44:ME:368:LEU:HD21	2.50	0.42
45:MF:16:ILE:HG23	45:MF:17:GLY:N	2.34	0.42
45:MF:72:THR:HG23	45:MF:73:MET:N	2.35	0.42
45:MF:221:THR:HG23	45:MF:223:GLY:N	2.34	0.42
45:MH:3:GLU:OE1	45:MH:3:GLU:N	2.46	0.42
45:MH:10:GLY:O	45:MH:14:ASN:N	2.52	0.42
44:MI:105:ARG:HG2	44:MI:411:GLU:HG3	2.02	0.42
44:MI:210:TYR:HE2	45:MJ:324:LYS:HA	1.85	0.42
45:MJ:178:THR:H	45:MJ:181:GLU:CD	2.20	0.42
44:MK:179:THR:HG21	45:ML:246:LEU:CD1	2.50	0.42
44:MK:397:LEU:HG	45:ML:344:TRP:O	2.20	0.42
44:MM:314:ALA:O	44:MM:379:SER:HA	2.20	0.42
45:MN:248:SER:HA	45:MN:252:LYS:HD2	2.02	0.42
45:MN:363:MET:SD	45:MN:363:MET:N	2.93	0.42
45:MN:380:ARG:HE	45:MN:380:ARG:HB3	1.65	0.42
44:NA:140:SER:OG	46:NA:501:GTP:O2B	2.38	0.42
45:NB:58:ARG:CG	45:NB:59:TYR:H	2.33	0.42
45:NB:71:GLY:O	45:NB:75:SER:HB3	2.20	0.42
45:NB:116:VAL:CA	45:NB:119:VAL:HG12	2.46	0.42
45:NB:330:MET:CE	45:NB:349:ILE:HG21	2.49	0.42
45:NB:345:ILE:HG23	45:NB:348:ASN:ND2	2.29	0.42
45:NB:372:THR:HG21	45:NB:426:GLN:HG3	2.01	0.42
44:NC:167:LEU:HG	44:NC:200:VAL:CG2	2.49	0.42
44:NE:158:SER:O	44:NE:162:GLY:N	2.53	0.42
45:NF:99:ASN:CA	45:NF:142:GLY:HA3	2.49	0.42
44:NG:5:ILE:HD11	44:NG:129:CYS:SG	2.60	0.42
44:NG:141:VAL:HG11	44:NG:172:TYR:HD1	1.85	0.42
44:NG:325:PRO:HB3	45:NJ:222:TYR:CZ	2.54	0.42
45:NH:100:ASN:HB3	45:NH:103:LYS:CB	2.48	0.42
45:NH:166:THR:HG23	45:NH:166:THR:O	2.20	0.42
44:NI:55:GLU:OE2	44:NI:57:GLY:N	2.52	0.42
44:NI:103:PHE:HA	44:NI:144:GLY:CA	2.50	0.42
44:NI:154:LEU:CD1	44:NI:194:LEU:HB3	2.50	0.42
44:NI:210:TYR:CE2	45:NJ:324:LYS:HD3	2.55	0.42
45:NJ:348:ASN:OD1	45:NJ:349:ILE:HD12	2.19	0.42
44:NK:177:VAL:O	44:NK:177:VAL:HG23	2.19	0.42
45:NL:325:GLU:O	45:NL:329:GLN:HB2	2.20	0.42
44:NM:224:TYR:HE2	45:NN:246:LEU:CD1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:315:CYS:N	44:NM:350:GLY:O	2.52	0.42
45:NN:116:VAL:O	45:NN:119:VAL:HG12	2.19	0.42
45:NN:191:GLN:HG3	45:NN:195:ASN:OD1	2.19	0.42
45:NN:200:MET:HE2	45:NN:268:ILE:HD13	2.00	0.42
45:NN:271:ALA:HB1	45:NN:272:PRO:HA	2.02	0.42
44:OA:60:LYS:HD3	44:OA:85:GLN:O	2.19	0.42
44:OA:74:VAL:HG13	44:OA:75:ILE:N	2.35	0.42
45:OB:284:LEU:HD12	45:OB:284:LEU:HA	1.86	0.42
44:OC:232:ALA:CA	44:OC:235:ILE:HG22	2.48	0.42
44:OC:439:THR:HB	45:OF:390:ARG:NH1	2.35	0.42
45:OD:19:LYS:HG2	45:OD:227:HIS:N	2.35	0.42
45:OF:105:HIS:HD2	45:OF:150:LEU:HB2	1.82	0.42
45:OF:284:LEU:HD11	45:OF:363:MET:HG3	2.00	0.42
45:OF:309:ARG:O	45:OF:372:THR:OG1	2.31	0.42
45:OH:231:ALA:O	45:OH:235:GLY:N	2.53	0.42
45:OH:330:MET:SD	45:OH:349:ILE:HG21	2.60	0.42
44:OI:248:LEU:HD11	45:OL:222:TYR:CE2	2.55	0.42
45:OL:105:HIS:O	45:OL:105:HIS:ND1	2.52	0.42
45:OL:186:THR:HG21	45:OL:385:PHE:CD2	2.54	0.42
45:OL:352:SER:C	45:OL:353:ILE:HD12	2.40	0.42
45:OL:382:ALA:O	45:OL:386:THR:HG22	2.19	0.42
44:OM:206:ASN:ND2	44:OM:210:TYR:OH	2.53	0.42
44:OM:220:GLU:HB3	44:OM:221:ARG:HE	1.84	0.42
45:ON:245:GLN:HB2	45:ON:353:ILE:HD11	2.02	0.42
44:PA:108:TYR:O	44:PA:112:LYS:HD2	2.19	0.42
44:PA:151:SER:O	44:PA:155:GLU:HG3	2.20	0.42
45:PB:49:VAL:O	45:PB:50:TYR:HD1	2.03	0.42
45:PB:149:THR:HG23	45:PB:150:LEU:N	2.34	0.42
45:PB:289:LEU:HD13	45:PB:365:VAL:CG2	2.49	0.42
44:PC:102:ASN:O	44:PC:105:ARG:N	2.52	0.42
44:PC:141:VAL:HG11	44:PC:173:PRO:HD3	2.02	0.42
45:PD:16:ILE:HA	45:PD:226:ASN:OD1	2.19	0.42
45:PD:271:ALA:HB2	45:PD:365:VAL:N	2.26	0.42
45:PF:20:PHE:HB2	45:PF:24:ILE:HB	2.02	0.42
45:PF:217:LEU:CD1	45:PF:220:PRO:HG3	2.50	0.42
44:PG:3:GLU:O	44:PG:133:GLN:HG2	2.20	0.42
44:PG:66:VAL:HG22	44:PG:68:LEU:CD1	2.50	0.42
44:PG:229:ARG:CZ	44:PG:363:VAL:HG11	2.50	0.42
44:PG:272:TYR:CD1	44:PG:376:CYS:HB2	2.55	0.42
45:PH:35:THR:HB	45:PH:37:HIS:CE1	2.55	0.42
45:PH:238:CYS:HB2	45:PH:318:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:292:GLN:HA	45:PH:295:ASP:HB2	2.02	0.42
45:PH:299:MET:HE3	45:PH:305:PRO:HG3	2.01	0.42
45:PH:328:GLU:HG3	45:PH:329:GLN:N	2.35	0.42
45:PJ:2:ARG:HB2	45:PJ:131:GLN:CG	2.50	0.42
45:PJ:36:TYR:CE1	45:PJ:38:GLY:HA3	2.55	0.42
45:PJ:68:LEU:HD12	45:PJ:93:GLY:HA3	2.02	0.42
45:PJ:302:ALA:CB	45:PJ:377:MET:HE1	2.45	0.42
45:PJ:308:GLY:HA2	45:PJ:426:GLN:NE2	2.35	0.42
44:PK:392:ASP:OD1	44:PK:422:ARG:NH1	2.52	0.42
45:PL:99:ASN:CG	45:PL:142:GLY:H	2.19	0.42
45:PL:275:SER:OG	45:PL:278:SER:HB3	2.20	0.42
45:PL:295:ASP:OD1	45:PL:296:ALA:N	2.52	0.42
45:PL:388:MET:SD	45:PL:388:MET:O	2.78	0.42
44:PM:224:TYR:CD2	45:PN:245:GLN:HB3	2.55	0.42
45:PN:73:MET:HE3	45:PN:92:PHE:CD1	2.55	0.42
45:PN:101:TRP:HZ3	45:PN:188:SER:HB3	1.81	0.42
45:PN:141:GLY:HA2	48:PN:501:GDP:O2A	2.19	0.42
45:PN:237:THR:HG23	45:PN:241:ARG:NH2	2.35	0.42
44:QA:102:ASN:OD1	44:QA:105:ARG:N	2.45	0.42
44:QA:172:TYR:HD2	44:QA:203:MET:SD	2.42	0.42
45:QB:42:LEU:HD22	45:QB:356:ILE:HD11	2.01	0.42
45:QB:203:ASP:OD2	45:QB:301:CYS:HA	2.20	0.42
45:QB:252:LYS:HE3	44:QC:100:ALA:CA	2.35	0.42
45:QD:3:GLU:OE1	45:QD:3:GLU:N	2.52	0.42
45:QF:322:SER:N	44:QG:223:THR:HG1	2.18	0.42
44:QG:5:ILE:HD12	44:QG:132:LEU:CD1	2.49	0.42
44:QG:275:ILE:O	44:QG:275:ILE:HG22	2.19	0.42
45:QH:1:MET:CE	45:QH:46:ARG:HH21	2.32	0.42
45:QH:163:ILE:HD11	45:QH:250:LEU:HB2	2.00	0.42
45:QH:261:PRO:HD3	44:QI:406:HIS:CD2	2.55	0.42
44:QI:66:VAL:O	44:QI:66:VAL:HG23	2.20	0.42
44:QI:313:MET:HB2	44:QI:380:ASN:ND2	2.35	0.42
45:QJ:36:TYR:CE1	45:QJ:44:LEU:HG	2.54	0.42
45:QJ:65:LEU:C	45:QJ:66:MET:HG3	2.40	0.42
45:QJ:258:ILE:HG13	45:QJ:266:PHE:HZ	1.83	0.42
45:QJ:355:ASP:C	45:QJ:356:ILE:HD13	2.39	0.42
44:QK:183:GLU:CD	44:QK:184:PRO:HD3	2.40	0.42
45:QL:14:ASN:HB3	45:QL:73:MET:HE1	2.02	0.42
45:QL:25:SER:CB	45:QL:81:PHE:HE2	2.27	0.42
44:QM:188:ILE:HD12	44:QM:188:ILE:H	1.85	0.42
44:QM:307:PRO:HB2	44:QM:312:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QN:107:THR:HG21	45:QN:401:GLU:CD	2.39	0.42
45:QN:172:SER:OG	45:QN:175:VAL:CG2	2.68	0.42
44:RA:318:MET:O	44:RA:376:CYS:N	2.46	0.42
45:RB:64:ILE:HG22	45:RB:65:LEU:N	2.34	0.42
45:RB:119:VAL:O	45:RB:123:GLU:N	2.53	0.42
44:RC:138:PHE:HA	44:RC:169:PHE:O	2.20	0.42
44:RC:219:ILE:HG21	44:RC:222:PRO:HB3	2.02	0.42
44:RC:284:GLU:O	44:RC:286:LEU:HD23	2.20	0.42
44:RC:298:PRO:O	44:RC:301:MET:HG2	2.20	0.42
45:RD:21:TRP:CZ2	45:RD:63:ALA:HB2	2.54	0.42
45:RD:190:HIS:CE1	45:RD:414:ASN:CB	3.03	0.42
45:RD:269:GLY:HA2	45:RD:300:MET:CE	2.50	0.42
44:RE:33:ASP:HB3	44:RE:35:GLN:OE1	2.19	0.42
44:RE:75:ILE:HD12	44:RE:92:LEU:CG	2.48	0.42
44:RE:99:ALA:HA	44:RE:110:ILE:CD1	2.49	0.42
44:RE:427:ALA:O	44:RE:430:LYS:HB3	2.19	0.42
45:RF:149:THR:OG1	45:RF:191:GLN:HB3	2.20	0.42
45:RF:274:THR:HB	45:RF:282:ARG:NH1	2.34	0.42
44:RG:74:VAL:HG23	44:RG:75:ILE:N	2.35	0.42
44:RG:213:CYS:CB	44:RG:217:LEU:HD12	2.49	0.42
45:RH:86:ARG:HB2	45:SH:281:TYR:CD2	2.55	0.42
45:RJ:193:VAL:O	45:RJ:193:VAL:HG22	2.20	0.42
45:RJ:208:TYR:O	45:RJ:212:PHE:HD2	2.02	0.42
44:RK:188:ILE:O	44:RK:191:THR:HB	2.19	0.42
44:RK:257:THR:HG22	45:RL:397:TRP:HH2	1.85	0.42
45:RL:86:ARG:NH2	45:RL:87:PRO:HG2	2.34	0.42
44:RM:74:VAL:HG23	44:RM:75:ILE:N	2.35	0.42
44:SA:14:ILE:HG21	44:SA:75:ILE:HD13	2.01	0.42
44:SA:71:GLU:OE2	44:SA:72:PRO:HD2	2.20	0.42
44:SA:221:ARG:HA	44:SA:221:ARG:HD2	1.81	0.42
44:SA:317:MET:HA	44:SA:377:MET:HA	2.02	0.42
45:SB:117:LEU:O	45:SB:121:ARG:HG2	2.19	0.42
45:SB:260:PHE:CB	45:SB:261:PRO:HD2	2.40	0.42
44:SC:8:HIS:HE1	44:SC:138:PHE:CE2	2.37	0.42
44:SC:195:LEU:HD11	44:SC:428:LEU:HD22	2.01	0.42
44:SC:259:LEU:HD11	44:SC:316:SER:CB	2.25	0.42
45:SD:252:LYS:CA	44:SE:100:ALA:HB1	2.50	0.42
44:SE:103:PHE:CE2	44:SE:148:GLY:HA2	2.54	0.42
44:SE:269:LEU:HB2	44:SE:303:ALA:HB3	2.01	0.42
44:SE:315:CYS:HA	44:SE:379:SER:HA	2.01	0.42
45:SF:10:GLY:O	45:SF:14:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SG:74:VAL:HG23	44:SG:75:ILE:N	2.34	0.42
45:SH:83:GLN:O	45:SH:83:GLN:HG3	2.19	0.42
45:SH:245:GLN:O	45:SH:246:LEU:HD12	2.18	0.42
45:SH:269:GLY:O	45:SH:367:PHE:HB3	2.20	0.42
45:SH:386:THR:HG23	45:SH:387:ALA:N	2.35	0.42
44:SI:251:ASP:HB2	44:SI:254:GLU:HG3	2.01	0.42
44:SI:268:MET:HB3	44:SI:380:ASN:CB	2.49	0.42
45:SL:8:GLN:HB2	45:SL:136:THR:HG1	1.84	0.42
44:SM:66:VAL:O	44:SM:66:VAL:HG13	2.20	0.42
45:SN:231:ALA:HA	45:SN:234:SER:OG	2.20	0.42
44:TA:276:ILE:HD13	44:TA:281:ALA:HA	2.00	0.42
44:TA:277:SER:O	44:TA:281:ALA:HB2	2.20	0.42
45:TB:44:LEU:CD2	45:TB:59:TYR:HE2	2.32	0.42
45:TB:342:VAL:HG13	45:TB:345:ILE:CG2	2.50	0.42
44:TC:224:TYR:HA	44:TC:227:LEU:CD1	2.46	0.42
45:TD:268:ILE:HA	45:TD:367:PHE:O	2.20	0.42
45:TD:318:ARG:NH1	45:TD:358:PRO:HG3	2.33	0.42
45:TF:66:MET:HE1	45:TF:116:VAL:HG11	2.02	0.42
45:TF:151:LEU:C	45:TF:154:LYS:H	2.22	0.42
45:TF:168:SER:HB2	45:TF:200:MET:O	2.20	0.42
45:TF:414:ASN:O	45:TF:417:ASP:N	2.53	0.42
45:TJ:254:ALA:HA	45:TJ:258:ILE:CD1	2.49	0.42
44:TK:88:HIS:HB3	44:TK:91:GLN:CD	2.40	0.42
45:TL:17:GLY:HA2	45:TL:20:PHE:HB3	2.02	0.42
45:TL:72:THR:HG23	45:TL:73:MET:N	2.35	0.42
44:TM:202:VAL:HG13	44:TM:268:MET:O	2.20	0.42
44:TM:229:ARG:O	44:TM:233:GLN:OE1	2.38	0.42
45:TN:2:ARG:NH1	45:TN:240:LEU:HA	2.35	0.42
45:TN:86:ARG:HH12	45:UN:281:TYR:HB3	1.85	0.42
45:TN:293:MET:HG2	45:TN:367:PHE:CD1	2.55	0.42
44:UA:34:GLY:HA3	44:UA:60:LYS:HZ3	1.84	0.42
44:UC:121:ARG:HD3	44:UC:125:LEU:HG	2.00	0.42
45:UD:257:LEU:HA	45:UD:312:THR:CG2	2.48	0.42
45:UD:282:ARG:HG2	45:UD:283:ALA:H	1.84	0.42
45:UF:286:VAL:HB	45:UF:287:PRO:HD3	2.01	0.42
44:UG:19:ALA:CB	44:UG:228:ASN:HB3	2.50	0.42
44:UG:175:PRO:HB2	44:UG:176:GLN:OE1	2.20	0.42
44:UG:183:GLU:N	44:UG:184:PRO:CD	2.83	0.42
44:UG:250:VAL:HG22	44:UG:352:LYS:HZ1	1.85	0.42
44:UG:326:LYS:HG2	45:UH:220:PRO:CD	2.45	0.42
45:UH:187:LEU:HD21	45:UH:408:PHE:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UJ:86:ARG:NH1	45:VJ:281:TYR:O	2.52	0.42
45:UJ:237:THR:O	45:UJ:240:LEU:HB3	2.20	0.42
45:UJ:285:THR:O	45:UJ:363:MET:HE1	2.20	0.42
44:UM:5:ILE:HD12	44:UM:135:PHE:HE1	1.84	0.42
44:UM:271:SER:N	44:UM:302:MET:HE1	2.35	0.42
45:UN:44:LEU:O	45:UN:47:ILE:HG22	2.20	0.42
45:UN:210:ILE:HD13	45:UN:300:MET:HE1	2.00	0.42
44:VA:234:VAL:HG21	44:VA:302:MET:CE	2.50	0.42
44:VA:318:MET:O	44:VA:375:VAL:HA	2.19	0.42
44:VA:352:LYS:CD	45:VD:178:THR:HA	2.50	0.42
45:VB:99:ASN:HA	45:VB:142:GLY:N	2.31	0.42
45:VB:172:SER:HA	45:VB:380:ARG:NH2	2.34	0.42
44:VC:221:ARG:HH22	45:VD:321:MET:HB3	1.85	0.42
44:VC:432:TYR:O	44:VC:435:VAL:HG22	2.20	0.42
45:VD:161:ASP:OD1	45:VD:162:ARG:N	2.53	0.42
44:VE:20:CYS:HA	44:VE:232:ALA:HB1	2.00	0.42
44:VE:90:GLU:CG	44:VE:121:ARG:HH22	2.27	0.42
45:VF:423:GLN:O	45:VF:426:GLN:HB3	2.19	0.42
44:VG:54:SER:HB3	44:VG:64:ARG:CZ	2.50	0.42
44:VG:55:GLU:OE1	44:VG:55:GLU:HA	2.20	0.42
44:VG:71:GLU:HG3	45:VH:247:ASN:ND2	2.35	0.42
44:VG:88:HIS:HB3	44:VG:91:GLN:CD	2.40	0.42
44:VG:99:ALA:O	44:VG:102:ASN:HB3	2.20	0.42
44:VG:183:GLU:CG	44:VG:184:PRO:HD3	2.49	0.42
44:VG:223:THR:HA	45:VH:322:SER:OG	2.20	0.42
44:VG:253:THR:HG23	44:VG:254:GLU:HG3	2.02	0.42
45:VH:105:HIS:HD1	45:VH:106:TYR:HD1	1.66	0.42
45:VH:274:THR:HG1	45:VH:282:ARG:HH11	1.67	0.42
44:VI:178:SER:CB	45:VJ:347:ASN:HB3	2.50	0.42
44:VI:245:ASP:O	44:VI:357:TYR:HD2	2.02	0.42
44:VK:69:ASP:OD1	44:VK:69:ASP:C	2.57	0.42
45:VL:192:LEU:HD12	45:VL:196:ALA:HB2	2.02	0.42
44:VM:182:VAL:HB	44:VM:404:PHE:CD2	2.55	0.42
44:VM:200:VAL:HA	44:VM:266:HIS:ND1	2.35	0.42
45:VN:246:LEU:HD22	45:VN:353:ILE:HD13	2.01	0.42
45:VN:318:ARG:C	45:VN:321:MET:HE1	2.40	0.42
45:VN:342:VAL:HG21	45:VN:344:TRP:NE1	2.35	0.42
44:WA:9:VAL:HG22	44:WA:10:GLY:N	2.35	0.42
45:WB:44:LEU:HA	45:WB:47:ILE:HB	2.02	0.42
44:WC:254:GLU:HG2	45:WF:98:GLY:CA	2.50	0.42
44:WC:371:VAL:O	44:WC:371:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:286:VAL:N	45:WD:287:PRO:CD	2.82	0.42
45:WD:289:LEU:HD11	45:WD:363:MET:HB3	2.02	0.42
44:WE:222:PRO:HG2	45:WF:324:LYS:HE2	2.00	0.42
44:WG:18:ASN:O	44:WG:22:GLU:OE1	2.38	0.42
44:WG:136:LEU:HD22	44:WG:167:LEU:HB2	2.02	0.42
44:WG:409:VAL:O	44:WG:409:VAL:HG12	2.20	0.42
45:WH:163:ILE:HG13	45:WH:251:ARG:CD	2.49	0.42
45:WH:317:PHE:HA	45:WH:365:VAL:HG22	2.02	0.42
44:WI:106:GLY:HA3	44:WI:148:GLY:HA3	2.01	0.42
45:WJ:107:THR:CG2	45:WJ:401:GLU:HB3	2.45	0.42
44:WK:152:LEU:O	44:WK:156:ARG:NH1	2.53	0.42
44:WK:317:MET:HE3	44:WK:319:TYR:CE1	2.55	0.42
45:WL:396:HIS:NE2	45:WL:397:TRP:CD1	2.88	0.42
44:WM:25:CYS:O	44:WM:30:ILE:N	2.47	0.42
44:WM:240:ALA:O	44:WM:244:PHE:N	2.52	0.42
45:WN:38:GLY:CA	45:WN:43:GLN:HE22	2.31	0.42
2:0A:95:LEU:HD22	45:MB:33:THR:CG2	2.47	0.42
5:0D:14:TYR:HA	44:CC:79:ARG:CZ	2.48	0.42
7:0F:68:PHE:CE1	45:ED:284:LEU:HG	2.54	0.42
8:0G:144:TYR:CZ	44:KM:278:ALA:HB3	2.55	0.42
15:0V:38:PHE:HD2	45:MN:331:LEU:HD23	1.84	0.42
16:0X:49:ILE:HG13	44:MA:282:TYR:CD2	2.43	0.42
19:1I:180:ASP:OD2	45:KH:77:ARG:HD3	2.20	0.42
20:1J:244:LEU:HD13	44:II:221:ARG:NH2	2.34	0.42
26:1R:93:VAL:HA	44:AC:370:LYS:HZ3	1.82	0.42
14:1U:236:LEU:CB	45:WF:33:THR:HG22	2.47	0.42
16:1X:107:ASP:OD1	44:MC:279:GLU:HA	2.19	0.42
31:2H:222:LYS:HG2	44:MC:80:THR:HG21	2.02	0.42
32:2I:75:SER:HA	44:FE:161:TYR:CE1	2.53	0.42
32:2I:134:LYS:CD	45:GD:329:GLN:HG2	2.44	0.42
22:2L:668:GLN:HE21	44:CM:367:ASP:HA	1.85	0.42
24:2O:268:ASN:ND2	44:VG:279:GLU:OE2	2.53	0.42
26:2R:392:LEU:HD12	45:EH:276:ARG:HH12	1.84	0.42
15:3V:93:MET:O	45:LB:261:PRO:HB2	2.20	0.42
37:5D:113:VAL:HG21	44:NM:286:LEU:HD12	2.00	0.42
38:5F:121:GLU:O	38:5F:122:PHE:HD1	2.02	0.42
38:5H:29:LYS:CG	38:5H:30:PRO:HD2	2.50	0.42
39:5K:79:SER:O	39:5K:83:ASP:N	2.45	0.42
35:5R:261:LEU:HB2	35:5R:350:PHE:CE1	2.52	0.42
40:6F:123:TYR:HD2	40:6F:124:ARG:H	1.66	0.42
41:6G:114:LYS:HG3	41:6G:115:ILE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:167:VAL:HG21	35:6R:201:PRO:HB3	2.01	0.42
35:6R:604:SER:H	35:6R:604:SER:HG	1.63	0.42
35:7R:44:TYR:O	35:7R:45:ILE:HD13	2.19	0.42
35:7R:406:PRO:HB2	45:EB:218:THR:CG2	2.50	0.42
35:7R:437:ASP:HB3	35:7R:440:ARG:NE	2.34	0.42
42:8L:315:UNK:CA	44:SE:370:LYS:HE2	2.50	0.42
43:8R:153:UNK:O	43:8R:154:UNK:C	2.66	0.42
44:AA:21:TRP:HA	44:AA:24:PHE:HB2	2.02	0.42
44:AA:270:SER:HB2	44:AA:302:MET:CE	2.50	0.42
45:AB:21:TRP:CZ2	45:AB:61:PRO:HB3	2.54	0.42
45:AB:49:VAL:HG11	45:AB:240:LEU:HD22	2.02	0.42
45:AB:121:ARG:NH2	45:AB:158:GLU:OE2	2.35	0.42
45:AB:305:PRO:HB3	45:AB:310:TYR:OH	2.20	0.42
44:AC:217:LEU:CD2	44:AC:275:ILE:HG22	2.50	0.42
45:AD:205:GLU:HA	45:AD:208:TYR:HD2	1.85	0.42
45:AD:318:ARG:HH12	45:AD:355:ASP:CA	2.33	0.42
44:AE:97:GLU:CG	44:AE:105:ARG:HH22	2.32	0.42
45:AF:16:ILE:HG23	45:AF:17:GLY:N	2.35	0.42
45:AF:193:VAL:C	45:AF:264:HIS:HE2	2.21	0.42
45:AF:342:VAL:HG22	45:AF:344:TRP:CD1	2.55	0.42
45:AH:162:ARG:NE	45:AH:162:ARG:HA	2.35	0.42
45:AH:191:GLN:O	45:AH:191:GLN:HG3	2.19	0.42
44:AI:169:PHE:CD1	44:AI:235:ILE:HD11	2.55	0.42
45:AL:248:SER:HA	45:AL:252:LYS:HD2	2.02	0.42
45:AL:401:GLU:N	45:AL:401:GLU:OE1	2.53	0.42
45:AN:382:ALA:HA	45:AN:415:MET:CE	2.50	0.42
44:BA:24:PHE:CZ	44:BA:235:ILE:HG22	2.48	0.42
44:BA:155:GLU:O	44:BA:159:VAL:HG12	2.19	0.42
44:BA:196:GLU:H	44:BA:196:GLU:CD	2.22	0.42
44:BA:221:ARG:N	44:BA:222:PRO:HD3	2.35	0.42
45:BD:49:VAL:HG21	45:BD:241:ARG:CG	2.49	0.42
45:BD:107:THR:HG23	45:BD:108:GLU:HG2	2.01	0.42
45:BD:242:PHE:CD2	45:BD:356:ILE:HB	2.55	0.42
44:BE:256:GLN:CD	45:BH:397:TRP:HZ2	2.23	0.42
44:BE:395:PHE:CD2	44:BE:422:ARG:HD3	2.55	0.42
45:BF:156:ARG:HG3	45:BF:195:ASN:CG	2.40	0.42
44:BG:67:PHE:HB2	44:BG:92:LEU:HD22	2.01	0.42
44:BG:394:LYS:HZ2	44:BG:394:LYS:HB3	1.85	0.42
45:BH:3:GLU:HB2	45:BH:49:VAL:HA	2.01	0.42
45:BH:100:ASN:ND2	45:BH:401:GLU:OE1	2.53	0.42
45:BH:259:PRO:HD2	45:BH:260:PHE:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:109:THR:HG21	44:BK:411:GLU:OE1	2.20	0.42
45:BL:187:LEU:HD23	45:BL:187:LEU:HA	1.84	0.42
44:BM:50:ASN:O	44:BM:50:ASN:OD1	2.37	0.42
44:CA:213:CYS:HB3	44:CA:219:ILE:HD12	2.02	0.42
44:CA:234:VAL:O	44:CA:237:SER:HB2	2.20	0.42
44:CA:319:TYR:N	44:CA:354:GLY:O	2.53	0.42
44:CA:326:LYS:CG	45:CB:220:PRO:HD2	2.49	0.42
44:CC:168:GLY:N	44:CC:200:VAL:O	2.48	0.42
44:CC:270:SER:HB3	44:CC:378:ILE:CD1	2.49	0.42
45:CD:73:MET:CE	45:CD:90:PHE:CD1	3.03	0.42
44:CE:256:GLN:HA	44:CE:259:LEU:HD21	2.01	0.42
44:CE:402:ARG:C	44:CE:405:VAL:HG13	2.40	0.42
45:CF:163:ILE:CD1	45:CF:250:LEU:HB2	2.49	0.42
44:CG:89:PRO:HD3	44:DG:280:LYS:HG2	2.01	0.42
44:CG:406:HIS:HD1	44:CG:407:TRP:HD1	1.65	0.42
44:CI:20:CYS:HA	44:CI:232:ALA:HB1	2.01	0.42
44:CI:323:VAL:CG2	44:CI:355:ILE:HG23	2.50	0.42
45:CJ:20:PHE:HA	45:CJ:230:SER:HB3	2.02	0.42
44:CK:112:LYS:HD2	44:CK:113:GLU:N	2.34	0.42
44:CK:183:GLU:CG	44:CK:184:PRO:HD3	2.48	0.42
44:CK:242:LEU:HD23	44:CK:242:LEU:HA	1.86	0.42
44:CK:292:THR:HG23	44:CK:293:ASN:N	2.35	0.42
45:CL:42:LEU:HD12	45:CL:42:LEU:N	2.35	0.42
45:CL:372:THR:HA	45:CL:422:TYR:CE2	2.41	0.42
45:CN:19:LYS:HB3	45:CN:226:ASN:HB3	2.01	0.42
45:CN:170:VAL:O	45:CN:170:VAL:CG2	2.67	0.42
45:CN:341:PHE:HZ	45:CN:349:ILE:HD11	1.79	0.42
45:CN:353:ILE:HD12	45:CN:353:ILE:N	2.34	0.42
44:DA:209:ILE:HG22	44:DA:227:LEU:HD22	2.00	0.42
45:DB:38:GLY:HA3	45:DB:39:ASP:HA	1.82	0.42
45:DB:58:ARG:HD2	45:EB:280:GLN:OE1	2.20	0.42
45:DB:119:VAL:HA	45:DB:122:LYS:CG	2.45	0.42
45:DB:384:GLN:O	45:DB:388:MET:CE	2.68	0.42
44:DC:387:VAL:HG23	44:DC:388:PHE:N	2.35	0.42
45:DD:178:THR:H	45:DD:181:GLU:CD	2.19	0.42
44:DE:269:LEU:HG	44:DE:269:LEU:O	2.20	0.42
44:DE:317:MET:HA	44:DE:377:MET:HA	2.02	0.42
45:DF:46:ARG:O	45:DF:49:VAL:HG23	2.19	0.42
45:DF:72:THR:CG2	45:DF:73:MET:HE3	2.50	0.42
45:DF:105:HIS:HD1	45:DF:106:TYR:HD1	1.65	0.42
45:DF:256:ASN:O	45:DF:257:LEU:HD12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DF:266:PHE:HA	45:DF:369:GLY:O	2.20	0.42
44:DG:264:ARG:NH2	44:DG:431:ASP:OD1	2.53	0.42
44:DG:268:MET:HE2	44:DG:380:ASN:HB2	2.00	0.42
45:DH:167:PHE:CD2	45:DH:233:MET:HE3	2.55	0.42
45:DH:189:VAL:O	45:DH:192:LEU:N	2.48	0.42
45:DH:257:LEU:HB3	45:DH:266:PHE:CZ	2.54	0.42
45:DH:261:PRO:O	45:DH:264:HIS:HD2	2.03	0.42
44:DI:274:PRO:HD2	44:DI:374:ALA:HB1	2.01	0.42
45:DJ:206:ALA:O	45:DJ:210:ILE:N	2.44	0.42
44:DK:278:ALA:HB2	44:DK:369:ALA:HB1	2.01	0.42
45:DL:270:PHE:N	45:DL:300:MET:HE1	2.35	0.42
44:DM:67:PHE:HB2	44:DM:92:LEU:HG	2.02	0.42
45:DN:190:HIS:CD2	45:DN:414:ASN:HD22	2.38	0.42
44:EA:183:GLU:CG	44:EA:184:PRO:HD3	2.50	0.42
44:EA:304:LYS:O	44:EA:304:LYS:CD	2.67	0.42
45:EB:318:ARG:HB2	45:EB:364:ALA:CB	2.34	0.42
45:EB:417:ASP:HA	45:EB:420:SER:OG	2.20	0.42
44:EC:90:GLU:O	44:EC:90:GLU:HG3	2.18	0.42
44:EC:288:VAL:HG13	44:EC:289:ALA:N	2.34	0.42
45:ED:54:ALA:HA	45:FD:283:ALA:HB2	2.01	0.42
45:EF:174:LYS:CD	45:EF:205:GLU:HG3	2.49	0.42
45:EF:210:ILE:HG13	45:EF:213:ARG:HD2	2.02	0.42
45:EF:373:ALA:HA	45:EF:375:GLN:OE1	2.20	0.42
44:EG:3:GLU:OE2	44:EG:129:CYS:HA	2.19	0.42
44:EG:209:ILE:HG12	44:EG:302:MET:HE1	2.01	0.42
45:EH:254:ALA:O	44:EI:407:TRP:HH2	2.02	0.42
45:EH:269:GLY:HA2	45:EH:300:MET:HE2	2.00	0.42
45:EJ:28:HIS:O	45:EJ:43:GLN:NE2	2.53	0.42
45:EJ:347:ASN:HB3	44:EK:178:SER:OG	2.19	0.42
44:EK:79:ARG:O	44:EK:84:ARG:HB3	2.20	0.42
44:EK:211:ASP:O	44:EK:215:ARG:HG3	2.20	0.42
44:EK:276:ILE:HD12	44:EK:281:ALA:HA	2.02	0.42
45:EL:68:LEU:HD23	45:EL:143:THR:OG1	2.20	0.42
45:EL:234:SER:O	45:EL:236:VAL:N	2.53	0.42
44:EM:51:THR:CG2	44:EM:243:ARG:HD3	2.31	0.42
44:EM:317:MET:HG2	44:EM:352:LYS:O	2.20	0.42
45:EN:221:THR:HG23	45:EN:224:ASP:H	1.84	0.42
45:EN:394:PHE:HB3	45:EN:397:TRP:CD2	2.55	0.42
45:FB:131:GLN:HE21	45:FB:250:LEU:HB2	1.84	0.42
45:FB:139:LEU:C	45:FB:171:PRO:HD3	2.40	0.42
45:FB:143:THR:HG23	45:FB:144:GLY:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:239:CYS:HB2	45:FB:354:CYS:HB2	2.01	0.42
45:FB:334:GLN:HE22	45:FB:347:ASN:CA	2.33	0.42
45:FB:378:PHE:HB3	45:FB:415:MET:HE2	2.02	0.42
44:FC:122:ILE:HD12	44:FC:122:ILE:H	1.84	0.42
44:FC:278:ALA:HB2	44:FC:369:ALA:HA	2.02	0.42
45:FD:318:ARG:HA	45:FD:354:CYS:CB	2.32	0.42
45:FD:329:GLN:O	45:FD:333:VAL:HG23	2.20	0.42
45:FD:342:VAL:CG1	45:FD:345:ILE:HG22	2.49	0.42
44:FE:132:LEU:HD23	44:FE:132:LEU:C	2.40	0.42
44:FE:156:ARG:HG2	44:FE:156:ARG:NH1	2.33	0.42
44:FE:217:LEU:HD21	44:FE:367:ASP:CG	2.40	0.42
44:FE:262:TYR:HB3	44:FE:263:PRO:HD2	2.01	0.42
45:FF:302:ALA:HB3	45:FF:377:MET:HE2	2.00	0.42
44:FG:2:ARG:NH2	44:FG:47:ASP:OD1	2.53	0.42
44:FG:60:LYS:HD3	44:GG:283:HIS:HA	2.02	0.42
44:FG:265:ILE:HG23	44:FG:432:TYR:CE1	2.53	0.42
45:FH:89:ASN:HB3	45:FH:90:PHE:CE2	2.54	0.42
45:FH:200:MET:CE	45:FH:266:PHE:H	2.27	0.42
45:FH:325:GLU:HB3	45:FH:327:ASP:CB	2.49	0.42
44:FI:90:GLU:O	44:FI:121:ARG:NH1	2.53	0.42
44:FI:329:ASN:HD21	45:FL:175:VAL:HG12	1.85	0.42
44:FI:398:MET:CE	45:FJ:346:PRO:HD2	2.50	0.42
44:FK:372:MET:CG	44:FK:373:ARG:HH11	2.31	0.42
45:FL:21:TRP:CH2	45:FL:61:PRO:HB3	2.55	0.42
45:FL:178:THR:CG2	45:FL:180:VAL:HG12	2.50	0.42
45:FL:279:GLN:O	45:FL:282:ARG:NH1	2.52	0.42
44:FM:241:SER:HB3	44:FM:318:MET:CE	2.50	0.42
45:FN:16:ILE:HD12	45:FN:229:VAL:HG21	2.01	0.42
45:FN:86:ARG:HG2	45:FN:89:ASN:OD1	2.19	0.42
44:GA:319:TYR:HA	44:GA:375:VAL:CB	2.50	0.42
44:GA:326:LYS:HZ2	45:GD:208:TYR:CB	2.29	0.42
45:GB:66:MET:HB3	45:GB:116:VAL:HG21	2.01	0.42
45:GB:239:CYS:O	45:GB:242:PHE:O	2.38	0.42
45:GB:241:ARG:NH1	45:GB:242:PHE:HE1	2.18	0.42
45:GB:268:ILE:HD12	45:GB:368:VAL:HG22	2.01	0.42
44:GC:10:GLY:O	44:GC:14:ILE:N	2.44	0.42
44:GC:99:ALA:HB3	44:GC:145:THR:CG2	2.50	0.42
44:GC:271:SER:O	44:GC:377:MET:HG2	2.20	0.42
44:GC:307:PRO:HB3	44:GC:312:TYR:HE1	1.84	0.42
45:GD:317:PHE:CD2	45:GD:365:VAL:HG22	2.55	0.42
45:GF:174:LYS:CA	45:GF:205:GLU:OE2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GF:290:THR:CA	45:GF:293:MET:HG2	2.39	0.42
45:GF:311:LEU:CG	45:GF:372:THR:HG23	2.49	0.42
44:GG:344:VAL:HG12	44:GG:345:ASP:N	2.35	0.42
45:GH:40:SER:HG	45:GH:43:GLN:CD	2.23	0.42
45:GH:175:VAL:O	45:GH:175:VAL:HG23	2.20	0.42
45:GH:299:MET:HE2	45:GH:305:PRO:CG	2.50	0.42
45:GH:313:ALA:HB2	45:GH:369:GLY:HA3	2.01	0.42
44:GI:323:VAL:CG2	44:GI:328:VAL:HG13	2.50	0.42
44:GK:51:THR:HG22	44:GK:52:PHE:CE1	2.55	0.42
44:GK:328:VAL:HG11	44:GK:353:VAL:CG2	2.31	0.42
45:GL:166:THR:OG1	45:GL:198:GLU:O	2.32	0.42
45:GL:204:ASN:HA	45:GL:207:LEU:HD12	2.02	0.42
45:GL:242:PHE:HD2	45:GL:356:ILE:HB	1.84	0.42
44:GM:11:GLN:OE1	44:GM:15:GLN:NE2	2.52	0.42
44:GM:20:CYS:CA	44:GM:232:ALA:HB1	2.48	0.42
44:GM:270:SER:O	44:GM:302:MET:CB	2.67	0.42
44:GM:296:PHE:HD2	44:GM:335:ILE:CD1	2.33	0.42
45:GN:36:TYR:CD1	45:GN:44:LEU:HG	2.53	0.42
45:GN:200:MET:HE3	45:GN:266:PHE:HB2	1.99	0.42
45:HB:270:PHE:HZ	45:HB:358:PRO:HG2	1.85	0.42
45:HB:362:LYS:HG3	45:HB:363:MET:CE	2.50	0.42
44:HC:146:GLY:O	44:HC:150:GLY:N	2.50	0.42
44:HC:301:MET:CE	44:HC:307:PRO:HD3	2.49	0.42
44:HC:406:HIS:NE2	44:HC:407:TRP:CD1	2.88	0.42
44:HC:425:LEU:HA	44:HC:425:LEU:HD23	1.81	0.42
45:HD:208:TYR:O	45:HD:212:PHE:N	2.45	0.42
45:HF:23:VAL:HG13	45:HF:24:ILE:N	2.35	0.42
45:HF:117:LEU:HG	45:HF:121:ARG:NH2	2.35	0.42
44:HG:210:TYR:CE1	44:HG:227:LEU:HD21	2.55	0.42
44:HI:71:GLU:OE2	44:HI:73:THR:OG1	2.30	0.42
45:HJ:91:VAL:O	45:HJ:91:VAL:HG23	2.20	0.42
45:HJ:288:GLU:HA	45:HJ:291:GLN:HG3	2.02	0.42
44:HK:30:ILE:HD12	44:HK:53:PHE:CZ	2.54	0.42
45:HL:309:ARG:HH22	45:HL:341:PHE:CA	2.33	0.42
44:HM:23:LEU:HD22	44:HM:232:ALA:HB1	2.01	0.42
44:HM:307:PRO:HB2	44:HM:312:TYR:CE1	2.55	0.42
44:HM:344:VAL:CG1	44:HM:346:TRP:NE1	2.80	0.42
44:IA:105:ARG:O	44:IA:109:THR:HG22	2.19	0.42
45:IB:154:LYS:O	45:IB:158:GLU:OE1	2.38	0.42
44:IC:221:ARG:NE	45:ID:322:SER:OG	2.53	0.42
45:ID:67:ASP:OD1	45:ID:68:LEU:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:86:ARG:O	45:ID:86:ARG:HG3	2.20	0.42
45:ID:193:VAL:HG21	45:ID:418:LEU:HD22	2.02	0.42
44:IE:319:TYR:CE1	44:IE:375:VAL:HG23	2.54	0.42
45:IF:72:THR:O	45:IF:75:SER:OG	2.18	0.42
45:IF:192:LEU:CD1	45:IF:196:ALA:HB2	2.48	0.42
45:IH:64:ILE:HD11	45:IH:123:GLU:HG3	2.01	0.42
45:IH:167:PHE:CE1	45:IH:200:MET:HE2	2.55	0.42
45:IJ:406:MET:SD	45:IJ:406:MET:N	2.86	0.42
44:IK:183:GLU:HG2	44:IK:184:PRO:CD	2.49	0.42
44:IK:186:ASN:OD1	44:IK:187:SER:N	2.53	0.42
44:IK:223:THR:HG23	44:IK:225:THR:H	1.85	0.42
45:IN:66:MET:SD	45:IN:116:VAL:HB	2.60	0.42
45:JB:32:PRO:HA	45:JB:81:PHE:CZ	2.55	0.42
45:JB:167:PHE:CZ	45:JB:233:MET:HG2	2.55	0.42
44:JC:5:ILE:HB	44:JC:135:PHE:CD1	2.55	0.42
44:JC:66:VAL:HG13	44:JC:66:VAL:O	2.20	0.42
44:JC:96:LYS:HA	44:JC:96:LYS:HD3	1.69	0.42
44:JC:241:SER:CA	44:JC:356:ASN:HD21	2.31	0.42
45:JD:183:TYR:CZ	45:JD:388:MET:SD	3.13	0.42
45:JD:186:THR:HG23	45:JD:415:MET:HE3	2.00	0.42
44:JE:206:ASN:CG	46:JE:501:GTP:HN22	2.22	0.42
44:JG:33:ASP:OD2	44:JG:35:GLN:HB3	2.19	0.42
44:JG:51:THR:HG21	44:JG:243:ARG:HD3	2.01	0.42
44:JG:387:VAL:HA	44:JG:390:ARG:CD	2.49	0.42
44:JG:432:TYR:O	44:JG:435:VAL:HG12	2.20	0.42
45:JH:334:GLN:HG3	45:JH:349:ILE:CD1	2.50	0.42
44:JI:185:TYR:OH	44:JI:399:TYR:HA	2.20	0.42
44:JI:272:TYR:CD2	44:JI:275:ILE:HD11	2.54	0.42
45:JJ:1:MET:O	45:JJ:1:MET:HG3	2.20	0.42
44:JK:7:ILE:CB	44:JK:137:VAL:HG12	2.23	0.42
44:JM:221:ARG:HD2	45:JN:325:GLU:OE1	2.20	0.42
44:KA:5:ILE:CG2	44:KA:125:LEU:HD23	2.49	0.42
44:KA:13:GLY:CA	44:KA:16:VAL:HG22	2.48	0.42
44:KA:26:LEU:HD23	44:KA:26:LEU:C	2.39	0.42
44:KA:68:LEU:HD22	44:KA:153:LEU:CD1	2.42	0.42
45:KB:429:THR:HG22	45:KB:430:ALA:N	2.35	0.42
44:KC:70:LEU:HD21	44:KC:114:ILE:HG21	2.01	0.42
44:KC:112:LYS:O	44:KC:115:VAL:HG12	2.19	0.42
45:KD:6:HIS:HB2	45:KD:134:GLN:HE21	1.85	0.42
45:KD:67:ASP:HB3	45:KD:73:MET:CE	2.50	0.42
45:KD:143:THR:HG22	48:KD:501:GDP:PB	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KE:239:THR:HG22	44:KE:243:ARG:HH11	1.85	0.42
45:KF:267:MET:CE	45:KF:305:PRO:HB3	2.50	0.42
45:KF:342:VAL:CG1	45:KF:345:ILE:HG22	2.44	0.42
44:KG:277:SER:OG	44:KG:279:GLU:HG2	2.19	0.42
45:KH:105:HIS:ND1	45:KH:150:LEU:HB2	2.35	0.42
44:KI:123:ARG:HH11	44:KI:123:ARG:HG2	1.84	0.42
44:KI:288:VAL:O	44:KI:291:ILE:HG12	2.19	0.42
45:KJ:20:PHE:CD2	45:KJ:233:MET:HE3	2.55	0.42
45:KJ:391:ARG:O	45:KJ:392:LYS:HG2	2.19	0.42
44:KK:250:VAL:O	44:KK:250:VAL:HG23	2.20	0.42
44:KK:315:CYS:SG	44:KK:317:MET:CE	3.07	0.42
44:KK:317:MET:CE	44:KK:377:MET:SD	3.06	0.42
45:KL:58:ARG:NH2	45:LL:281:TYR:HE1	2.18	0.42
45:KL:77:ARG:NE	45:KL:77:ARG:HA	2.35	0.42
45:KL:355:ASP:C	45:KL:356:ILE:HD12	2.40	0.42
44:KM:50:ASN:HA	44:KM:53:PHE:O	2.20	0.42
44:KM:209:ILE:O	44:KM:213:CYS:N	2.32	0.42
44:KM:420:GLU:HG3	44:KM:421:ALA:N	2.35	0.42
45:KN:117:LEU:HD23	45:KN:117:LEU:O	2.20	0.42
44:LA:172:TYR:CD2	44:LA:203:MET:HE1	2.55	0.42
44:LA:196:GLU:C	44:LA:197:HIS:ND1	2.74	0.42
45:LB:342:VAL:HG22	45:LB:343:GLU:H	1.85	0.42
44:LC:175:PRO:HD2	44:LC:176:GLN:N	2.34	0.42
44:LE:122:ILE:HD13	44:LE:122:ILE:HA	1.94	0.42
44:LE:182:VAL:O	44:LE:182:VAL:HG22	2.20	0.42
44:LE:272:TYR:CD2	44:LE:273:ALA:N	2.88	0.42
44:LE:276:ILE:HD13	44:LE:281:ALA:HA	1.99	0.42
45:LF:163:ILE:HG13	45:LF:164:MET:N	2.35	0.42
45:LF:374:ILE:HG22	45:LF:422:TYR:CE2	2.55	0.42
44:LG:52:PHE:HZ	44:LG:239:THR:HG21	1.84	0.42
44:LG:63:PRO:HG3	44:LG:86:LEU:HG	2.02	0.42
44:LG:169:PHE:HA	44:LG:202:VAL:CG2	2.49	0.42
44:LG:203:MET:HG3	44:LG:384:ILE:HD11	2.02	0.42
44:LG:269:LEU:H	44:LG:269:LEU:CD2	2.30	0.42
44:LG:320:ARG:HD3	44:LG:360:PRO:HG3	2.01	0.42
44:LI:250:VAL:HB	44:LI:352:LYS:HZ2	1.85	0.42
45:LJ:80:PRO:O	45:LJ:81:PHE:HB2	2.20	0.42
45:LJ:311:LEU:HD23	45:LJ:311:LEU:HA	1.89	0.42
45:LL:68:LEU:HB2	45:LL:143:THR:OG1	2.20	0.42
45:LL:101:TRP:CZ2	45:LL:187:LEU:HB3	2.55	0.42
45:LL:218:THR:HG23	45:LL:219:THR:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LL:303:ALA:HA	45:LL:376:GLU:OE1	2.20	0.42
44:LM:107:HIS:O	44:LM:107:HIS:ND1	2.53	0.42
44:LM:267:PHE:CB	44:LM:384:ILE:HD13	2.50	0.42
45:LN:22:GLU:HA	45:LN:81:PHE:HD2	1.84	0.42
45:LN:382:ALA:CA	45:LN:415:MET:HE1	2.39	0.42
44:MC:88:HIS:ND1	44:MC:89:PRO:HD2	2.35	0.42
44:MC:195:LEU:HD12	44:MC:267:PHE:HE1	1.84	0.42
45:MD:5:VAL:HG22	45:MD:133:PHE:CD1	2.55	0.42
45:MD:72:THR:HG23	45:MD:73:MET:N	2.35	0.42
44:ME:155:GLU:HG2	44:ME:197:HIS:ND1	2.34	0.42
44:ME:291:ILE:HD12	44:ME:375:VAL:HG23	2.01	0.42
45:MF:149:THR:HG23	45:MF:150:LEU:N	2.35	0.42
45:MF:211:CYS:SG	45:MF:225:LEU:HD21	2.59	0.42
45:MF:274:THR:HB	45:MF:279:GLN:CA	2.50	0.42
44:MG:408:TYR:O	44:MG:413:MET:HE2	2.20	0.42
44:MG:413:MET:HE1	44:MG:418:PHE:CE2	2.55	0.42
45:MH:152:ILE:HD12	45:MH:164:MET:CE	2.50	0.42
44:MI:99:ALA:HB3	44:MI:145:THR:CG2	2.49	0.42
44:MI:259:LEU:HD21	44:MI:316:SER:HB2	2.00	0.42
45:MN:17:GLY:HA2	45:MN:20:PHE:CD1	2.53	0.42
44:NA:413:MET:HE1	44:NA:417:GLU:HG3	2.01	0.42
45:NB:12:CYS:O	45:NB:16:ILE:HD12	2.19	0.42
45:NB:64:ILE:C	45:NB:65:LEU:HD12	2.40	0.42
45:NB:95:THR:HG21	45:NB:108:GLU:HG3	2.02	0.42
45:NB:98:GLY:O	45:NB:99:ASN:HB2	2.20	0.42
44:NC:6:SER:O	44:NC:65:ALA:HA	2.19	0.42
44:NC:13:GLY:O	44:NC:16:VAL:HG12	2.20	0.42
44:NC:71:GLU:O	44:NC:75:ILE:HG12	2.20	0.42
44:NC:196:GLU:O	44:NC:196:GLU:OE1	2.38	0.42
45:ND:114:ASP:O	45:ND:117:LEU:HB2	2.20	0.42
45:ND:285:THR:HG1	45:ND:287:PRO:HD2	1.85	0.42
44:NE:7:ILE:HD12	44:NE:122:ILE:CD1	2.50	0.42
44:NE:285:GLN:O	44:NE:286:LEU:HB2	2.19	0.42
45:NF:154:LYS:HE2	45:NF:154:LYS:HB3	1.87	0.42
45:NF:219:THR:O	45:NF:219:THR:HG22	2.18	0.42
45:NF:318:ARG:HD2	45:NF:358:PRO:CG	2.29	0.42
44:NI:113:GLU:O	44:NI:114:ILE:HD13	2.19	0.42
44:NI:372:MET:O	44:NI:372:MET:HG3	2.19	0.42
45:NJ:86:ARG:HD2	45:NJ:89:ASN:HD21	1.84	0.42
45:NJ:164:MET:HB3	45:NJ:197:ASP:H	1.84	0.42
45:NJ:166:THR:O	45:NJ:200:MET:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:193:VAL:HG13	45:NJ:194:GLU:N	2.35	0.42
45:NL:55:THR:HG23	45:OL:284:LEU:H	1.85	0.42
45:NL:240:LEU:O	45:NL:240:LEU:HG	2.20	0.42
44:NM:227:LEU:CD2	46:NM:501:GTP:HN21	2.33	0.42
44:NM:284:GLU:HB2	44:NM:285:GLN:OE1	2.20	0.42
45:NN:167:PHE:CE2	45:NN:233:MET:HE3	2.55	0.42
45:NN:186:THR:HG21	45:NN:385:PHE:CZ	2.54	0.42
45:NN:249:ASP:OD1	45:NN:252:LYS:HB2	2.19	0.42
44:OA:55:GLU:HA	44:OA:61:HIS:HD2	1.85	0.42
44:OA:195:LEU:HD11	44:OA:428:LEU:HD13	2.02	0.42
44:OA:430:LYS:HZ1	44:OA:433:GLU:HG3	1.85	0.42
45:OB:122:LYS:HE2	45:PB:291:GLN:CB	2.43	0.42
45:OB:257:LEU:HD11	45:OB:314:SER:HB2	2.02	0.42
45:OB:290:THR:HG23	45:OB:291:GLN:N	2.35	0.42
45:OB:321:MET:CE	45:OB:325:GLU:HG3	2.49	0.42
44:OC:387:VAL:HG13	44:OC:388:PHE:N	2.34	0.42
45:OD:130:LEU:CD2	45:OD:162:ARG:HD2	2.48	0.42
45:OD:352:SER:C	45:OD:353:ILE:HG13	2.40	0.42
45:OD:374:ILE:HD12	45:OD:378:PHE:HE2	1.85	0.42
44:OE:387:VAL:O	44:OE:391:LEU:HD13	2.20	0.42
45:OF:248:SER:HA	45:OF:252:LYS:HE3	2.02	0.42
44:OG:52:PHE:CE2	44:OG:239:THR:HB	2.55	0.42
45:OH:181:GLU:N	45:OH:182:PRO:CD	2.83	0.42
45:OH:386:THR:HG1	45:OH:390:ARG:NH2	2.16	0.42
44:OI:346:TRP:O	45:OL:388:MET:CE	2.68	0.42
45:OJ:55:THR:HG23	45:PJ:284:LEU:H	1.85	0.42
45:OJ:60:VAL:HG11	45:OJ:86:ARG:HH21	1.85	0.42
45:OJ:115:SER:O	45:OJ:119:VAL:HG13	2.20	0.42
45:OJ:211:CYS:SG	45:OJ:215:LEU:HD12	2.60	0.42
44:OK:224:TYR:HA	44:OK:227:LEU:CD1	2.50	0.42
45:OL:5:VAL:HG12	45:OL:6:HIS:N	2.35	0.42
44:OM:182:VAL:C	44:OM:184:PRO:HD2	2.40	0.42
44:OM:344:VAL:HG21	44:OM:346:TRP:NE1	2.35	0.42
45:ON:3:GLU:CA	45:ON:49:VAL:HG23	2.47	0.42
45:ON:149:THR:O	45:ON:152:ILE:HB	2.19	0.42
44:PA:71:GLU:HB2	44:PA:98:ASP:CB	2.49	0.42
44:PA:200:VAL:HG13	44:PA:268:MET:CE	2.49	0.42
44:PA:334:THR:O	44:PA:337:THR:N	2.53	0.42
45:PB:252:LYS:O	45:PB:256:ASN:N	2.53	0.42
45:PB:271:ALA:HB1	45:PB:272:PRO:HA	2.02	0.42
44:PC:163:LYS:O	44:PC:163:LYS:CD	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:58:ARG:NH2	45:QB:280:GLN:OE1	2.47	0.42
45:PD:180:VAL:O	45:PD:180:VAL:HG22	2.19	0.42
45:PF:217:LEU:HD12	45:PF:217:LEU:O	2.19	0.42
45:PF:241:ARG:O	45:PF:242:PHE:HD1	2.03	0.42
45:PF:398:TYR:C	45:PF:403:MET:HB2	2.40	0.42
44:PG:6:SER:O	44:PG:7:ILE:HD13	2.19	0.42
44:PG:183:GLU:N	44:PG:184:PRO:CD	2.83	0.42
44:PG:395:PHE:HE1	44:PG:422:ARG:HD3	1.79	0.42
45:PH:406:MET:HA	45:PH:409:THR:CB	2.46	0.42
44:PI:167:LEU:HG	44:PI:200:VAL:HB	2.02	0.42
44:PI:260:VAL:HA	44:PI:261:PRO:HD3	1.81	0.42
44:PI:409:VAL:O	44:PI:409:VAL:HG12	2.20	0.42
45:PJ:183:TYR:OH	45:PJ:388:MET:HB3	2.19	0.42
45:PJ:192:LEU:HD11	45:PJ:196:ALA:HB2	2.01	0.42
45:PL:268:ILE:O	45:PL:300:MET:HG2	2.19	0.42
45:PL:410:GLU:O	45:PL:414:ASN:N	2.43	0.42
45:PN:164:MET:CB	45:PN:197:ASP:HB2	2.48	0.42
45:PN:266:PHE:HE1	45:PN:370:ASN:ND2	2.18	0.42
44:QA:153:LEU:O	44:QA:157:LEU:HG	2.20	0.42
44:QC:185:TYR:HE2	44:QC:404:PHE:CB	2.32	0.42
44:QC:317:MET:SD	44:QC:375:VAL:HG21	2.60	0.42
45:QD:279:GLN:O	45:QD:279:GLN:HG2	2.19	0.42
44:QE:60:LYS:HG2	44:QE:61:HIS:N	2.35	0.42
44:QE:109:THR:HG22	44:QE:110:ILE:HG23	2.02	0.42
44:QE:324:VAL:O	44:QE:324:VAL:HG23	2.20	0.42
45:QF:243:PRO:HA	44:QG:73:THR:HG21	2.02	0.42
44:QG:8:HIS:ND1	44:QG:67:PHE:HE1	2.18	0.42
45:QH:163:ILE:O	45:QH:164:MET:HE2	2.20	0.42
44:QI:133:GLN:O	44:QI:165:SER:OG	2.34	0.42
44:QI:166:LYS:O	44:QI:199:ASP:HB2	2.20	0.42
44:QI:264:ARG:HH11	44:QI:264:ARG:CG	2.32	0.42
44:QI:346:TRP:HE3	44:QI:346:TRP:O	2.03	0.42
45:QJ:1:MET:C	45:QJ:2:ARG:HG2	2.38	0.42
45:QJ:395:LEU:O	45:QJ:399:THR:HG23	2.20	0.42
44:QK:338:LYS:C	44:QK:339:ARG:HD2	2.41	0.42
45:QL:324:LYS:O	45:QL:328:GLU:HG2	2.20	0.42
44:QM:238:LEU:HD12	44:QM:378:ILE:HD11	2.02	0.42
44:QM:271:SER:HG	44:QM:301:MET:HA	1.80	0.42
45:QN:379:LYS:HE2	45:QN:379:LYS:HB2	1.84	0.42
44:RA:36:MET:N	44:RA:36:MET:HE2	2.35	0.42
44:RA:296:PHE:CE2	44:RA:335:ILE:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RB:262:ARG:O	45:RB:418:LEU:HD11	2.20	0.42
45:RD:55:THR:HG22	45:RD:56:GLY:N	2.35	0.42
45:RD:301:CYS:SG	45:RD:303:ALA:HB3	2.60	0.42
44:RE:55:GLU:HG3	44:RE:57:GLY:N	2.23	0.42
45:RF:143:THR:HG23	45:RF:144:GLY:H	1.83	0.42
45:RF:251:ARG:HH12	44:RG:105:ARG:CZ	2.33	0.42
45:RF:376:GLU:O	45:RF:379:LYS:HB2	2.20	0.42
44:RG:105:ARG:NE	44:RG:110:ILE:HD11	2.35	0.42
44:RG:122:ILE:HG13	44:RG:123:ARG:N	2.35	0.42
44:RG:172:TYR:HB3	44:RG:173:PRO:HD2	2.02	0.42
44:RG:275:ILE:N	44:RG:276:ILE:HD12	2.35	0.42
45:RH:97:ALA:CB	45:RH:143:THR:HB	2.50	0.42
45:RH:99:ASN:O	45:RH:180:VAL:HG11	2.19	0.42
45:RH:266:PHE:HB3	45:RH:369:GLY:O	2.20	0.42
44:RI:284:GLU:HG3	44:RI:286:LEU:CD2	2.40	0.42
44:RI:349:THR:O	44:RI:349:THR:HG23	2.20	0.42
45:RJ:322:SER:OG	45:RJ:324:LYS:HG2	2.20	0.42
45:RL:267:MET:SD	45:RL:267:MET:N	2.89	0.42
44:RM:405:VAL:O	44:RM:408:TYR:HB2	2.20	0.42
45:RN:233:MET:HA	45:RN:236:VAL:HG23	2.01	0.42
44:SA:16:VAL:O	44:SA:16:VAL:HG22	2.20	0.42
44:SA:437:ILE:HG13	44:SA:437:ILE:O	2.18	0.42
45:SB:68:LEU:HB2	45:SB:143:THR:HG21	2.02	0.42
45:SB:161:ASP:OD2	45:SB:162:ARG:NH1	2.52	0.42
45:SB:207:LEU:O	45:SB:210:ILE:N	2.53	0.42
45:SB:286:VAL:N	45:SB:287:PRO:CD	2.83	0.42
45:SB:313:ALA:HB3	45:SB:349:ILE:HG12	2.02	0.42
44:SC:239:THR:CA	44:SC:242:LEU:HD12	2.50	0.42
44:SE:56:THR:HB	44:SE:60:LYS:O	2.19	0.42
44:SE:105:ARG:HG2	44:SE:411:GLU:HB3	2.01	0.42
44:SE:176:GLN:OE1	44:SE:176:GLN:N	2.53	0.42
44:SE:406:HIS:ND1	44:SE:407:TRP:CD1	2.88	0.42
44:SG:98:ASP:OD1	44:SG:99:ALA:N	2.53	0.42
44:SG:216:ASN:CG	44:SG:275:ILE:HD11	2.40	0.42
44:SG:277:SER:O	44:SG:281:ALA:N	2.53	0.42
44:SG:278:ALA:HB2	44:SG:369:ALA:HB2	2.02	0.42
45:SH:251:ARG:CD	44:SI:105:ARG:HH12	2.33	0.42
44:SI:14:ILE:HD13	44:SI:74:VAL:HG21	2.01	0.42
44:SI:105:ARG:CB	44:SI:109:THR:HB	2.50	0.42
44:SI:218:ASP:C	44:SI:219:ILE:HD13	2.40	0.42
44:SI:392:ASP:HB2	44:SI:425:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:36:TYR:CE1	45:SJ:38:GLY:N	2.86	0.42
44:SK:14:ILE:O	44:SK:18:ASN:N	2.50	0.42
44:SK:141:VAL:HG23	44:SK:190:SER:OG	2.20	0.42
44:SK:291:ILE:HG13	44:SK:292:THR:N	2.35	0.42
45:SL:278:SER:O	45:SL:280:GLN:N	2.53	0.42
44:SM:31:GLN:HG3	44:SM:35:GLN:O	2.20	0.42
44:SM:101:ASN:HA	44:SM:144:GLY:H	1.85	0.42
44:SM:122:ILE:O	44:SM:125:LEU:HB2	2.20	0.42
44:TA:209:ILE:CD1	44:TA:227:LEU:HD11	2.50	0.42
45:TB:246:LEU:HA	44:TC:11:GLN:HE22	1.85	0.42
44:TC:232:ALA:HA	44:TC:235:ILE:HD13	2.01	0.42
44:TC:273:ALA:HB1	44:TC:274:PRO:HA	2.02	0.42
45:TD:42:LEU:HD23	45:TD:243:PRO:CD	2.49	0.42
45:TD:212:PHE:CE2	45:TD:220:PRO:HG2	2.54	0.42
45:TD:242:PHE:HB3	45:TD:243:PRO:CD	2.49	0.42
44:TE:20:CYS:O	44:TE:24:PHE:CD2	2.72	0.42
44:TE:286:LEU:HG	44:TE:286:LEU:O	2.20	0.42
45:TF:290:THR:HG21	45:TF:329:GLN:OE1	2.19	0.42
44:TG:103:PHE:HD1	44:TG:147:SER:OG	2.03	0.42
44:TG:422:ARG:HH12	44:TG:426:ALA:HB2	1.85	0.42
44:TK:238:LEU:HD21	44:TK:255:PHE:HE2	1.85	0.42
44:TK:242:LEU:HD23	44:TK:242:LEU:HA	1.92	0.42
45:TL:226:ASN:O	45:TL:229:VAL:HB	2.20	0.42
44:TM:202:VAL:HG13	44:TM:268:MET:C	2.41	0.42
44:TM:248:LEU:HB3	44:TM:355:ILE:N	2.29	0.42
44:TM:390:ARG:HG3	44:TM:391:LEU:H	1.83	0.42
45:TN:285:THR:HB	45:TN:287:PRO:HD2	2.02	0.42
45:TN:362:LYS:O	45:TN:363:MET:HG2	2.19	0.42
44:UA:217:LEU:HD11	44:UA:368:LEU:CD2	2.50	0.42
44:UA:269:LEU:O	44:UA:379:SER:N	2.47	0.42
44:UA:313:MET:HE3	44:UA:344:VAL:CG2	2.49	0.42
45:UB:318:ARG:CG	45:UB:354:CYS:HB3	2.43	0.42
44:UC:93:ILE:HD12	44:UC:93:ILE:H	1.84	0.42
45:UD:318:ARG:HH11	45:UD:358:PRO:HG3	1.84	0.42
45:UD:326:VAL:HG23	44:UE:221:ARG:HH22	1.85	0.42
44:UE:175:PRO:HB3	44:UE:390:ARG:CZ	2.50	0.42
45:UF:54:ALA:HB3	45:UF:58:ARG:CG	2.48	0.42
45:UF:173:PRO:HG3	45:UF:384:GLN:NE2	2.35	0.42
45:UF:180:VAL:HG22	45:UF:180:VAL:O	2.19	0.42
45:UF:330:MET:O	45:UF:334:GLN:CB	2.68	0.42
44:UG:90:GLU:HG2	44:UG:91:GLN:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:209:ILE:HG13	44:UG:302:MET:HG3	2.00	0.42
45:UH:103:LYS:N	45:UH:401:GLU:OE1	2.53	0.42
45:UH:283:ALA:O	45:UH:288:GLU:HG3	2.20	0.42
44:UI:398:MET:HE2	44:UI:398:MET:N	2.35	0.42
45:UJ:86:ARG:HB3	45:UJ:89:ASN:CG	2.40	0.42
44:UK:182:VAL:O	44:UK:182:VAL:HG22	2.19	0.42
44:UK:213:CYS:CB	44:UK:217:LEU:HD12	2.50	0.42
44:UK:306:ASP:OD1	44:UK:308:ARG:HB2	2.20	0.42
45:UL:178:THR:N	45:UL:181:GLU:OE2	2.53	0.42
45:UL:334:GLN:NE2	45:UL:348:ASN:H	2.18	0.42
45:UL:395:LEU:O	45:UL:399:THR:HG23	2.20	0.42
45:UN:76:VAL:HG23	45:UN:79:GLY:HA3	2.01	0.42
44:VA:102:ASN:OD1	44:VA:105:ARG:N	2.50	0.42
44:VA:210:TYR:HD1	44:VA:227:LEU:HD21	1.84	0.42
45:VB:257:LEU:HD11	45:VB:314:SER:HB3	2.02	0.42
44:VC:401:LYS:HE3	45:VD:344:TRP:CG	2.55	0.42
45:VD:18:ALA:O	45:VD:22:GLU:HG3	2.20	0.42
45:VD:135:ILE:O	45:VD:167:PHE:N	2.30	0.42
45:VD:138:SER:CB	45:VD:169:VAL:HB	2.49	0.42
45:VD:164:MET:SD	45:VD:197:ASP:HB2	2.60	0.42
45:VD:193:VAL:HA	45:VD:264:HIS:NE2	2.34	0.42
44:VE:11:GLN:OE1	45:VF:246:LEU:HA	2.20	0.42
44:VE:257:THR:CG2	45:VH:397:TRP:CE2	3.03	0.42
44:VE:329:ASN:ND2	45:VH:175:VAL:HG21	2.35	0.42
45:VF:109:GLY:HA3	45:VF:147:MET:SD	2.60	0.42
45:VF:163:ILE:HG22	45:VF:164:MET:N	2.35	0.42
45:VF:284:LEU:HD23	45:VF:284:LEU:HA	1.90	0.42
44:VG:141:VAL:CG1	44:VG:190:SER:HB2	2.50	0.42
44:VG:195:LEU:CD1	44:VG:267:PHE:HE1	2.33	0.42
44:VG:425:LEU:HD23	44:VG:425:LEU:HA	1.92	0.42
45:VH:131:GLN:HE22	45:VH:250:LEU:HB2	1.85	0.42
45:VH:139:LEU:O	45:VH:184:ASN:ND2	2.53	0.42
44:VI:108:TYR:HD2	44:VI:413:MET:HE3	1.85	0.42
44:VI:209:ILE:O	44:VI:212:ILE:HG22	2.20	0.42
45:VJ:23:VAL:O	45:VJ:26:ASP:HB2	2.19	0.42
45:VJ:166:THR:OG1	45:VJ:198:GLU:O	2.34	0.42
45:VJ:207:LEU:HD23	45:VJ:300:MET:HE2	2.02	0.42
45:VJ:223:GLY:O	45:VJ:227:HIS:HB2	2.20	0.42
44:VK:5:ILE:HD13	44:VK:125:LEU:CB	2.50	0.42
44:VK:97:GLU:HG3	44:VK:105:ARG:HH12	1.84	0.42
44:VK:276:ILE:HG13	44:VK:277:SER:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:22:GLU:HA	45:VL:81:PHE:CG	2.55	0.42
45:VL:68:LEU:HD22	45:VL:108:GLU:OE1	2.19	0.42
45:VL:161:ASP:OD1	45:VL:162:ARG:HG2	2.20	0.42
44:VM:181:VAL:O	44:VM:404:PHE:HE2	2.02	0.42
44:VM:220:GLU:C	44:VM:222:PRO:HD3	2.40	0.42
45:VN:120:VAL:HG23	45:VN:121:ARG:N	2.35	0.42
45:VN:317:PHE:CD2	45:VN:365:VAL:HG21	2.55	0.42
45:WB:193:VAL:HG23	45:WB:264:HIS:NE2	2.34	0.42
44:WC:155:GLU:HG2	44:WC:156:ARG:N	2.35	0.42
44:WC:346:TRP:HZ2	44:WC:435:VAL:CG1	2.32	0.42
44:WE:213:CYS:CB	44:WE:217:LEU:HD12	2.44	0.42
44:WE:268:MET:HB2	44:WE:379:SER:O	2.20	0.42
44:WE:407:TRP:HZ3	45:WF:255:VAL:CA	2.22	0.42
45:WF:253:LEU:O	45:WF:257:LEU:HB2	2.19	0.42
45:WF:390:ARG:HG3	45:WF:391:ARG:N	2.35	0.42
44:WG:132:LEU:HD12	44:WG:132:LEU:C	2.40	0.42
44:WK:73:THR:CB	45:WL:247:ASN:HD22	2.31	0.42
44:WK:323:VAL:O	44:WK:323:VAL:HG23	2.19	0.42
45:WN:1:MET:HA	45:WN:3:GLU:OE1	2.20	0.42
45:WN:285:THR:HB	45:WN:287:PRO:HD2	2.01	0.42
1:6H:172:SER:C	45:FB:320:ARG:NH1	2.73	0.42
3:0B:203:THR:CB	44:JI:57:GLY:HA2	2.50	0.42
4:0C:56:THR:HA	44:EI:219:ILE:CG1	2.13	0.42
7:0F:19:TRP:CD1	44:EE:370:LYS:HE2	2.54	0.42
12:0S:278:ARG:HD2	45:WB:119:VAL:HG13	2.02	0.42
14:0U:236:LEU:CD2	45:WB:33:THR:CG2	2.97	0.42
16:0X:1:MET:H1	44:MA:249:ASN:ND2	2.16	0.42
2:1A:61:TYR:HD2	45:MF:47:ILE:CG2	2.33	0.42
18:1F:168:ARG:H	44:GK:96:LYS:HE3	1.84	0.42
19:1I:23:ILE:HD12	45:ID:48:ASN:OD1	2.19	0.42
19:1I:23:ILE:CG1	45:ID:48:ASN:HD21	2.32	0.42
20:1J:142:VAL:HB	44:IE:285:GLN:O	2.18	0.42
20:1J:201:LYS:HD3	44:IG:285:GLN:CB	2.49	0.42
20:1J:260:ASP:OD1	44:II:370:LYS:HE2	2.19	0.42
26:1R:232:LEU:CD1	45:BF:77:ARG:HH12	2.29	0.42
15:1V:35:GLY:H	44:MI:304:LYS:HZ3	1.65	0.42
27:1W:195:TRP:HH2	44:LA:322:ASP:CB	2.28	0.42
16:1X:31:ASP:OD2	45:MH:218:THR:OG1	2.07	0.42
2:2A:3:GLN:NE2	35:5R:7:LYS:O	2.45	0.42
32:2I:45:LYS:HZ2	45:GH:332:ASN:CB	2.30	0.42
26:2R:29:LYS:HZ3	44:MG:47:ASP:N	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3X:67:GLU:OE1	45:MN:362:LYS:NZ	2.53	0.42
28:4C:298:PRO:CA	45:KN:357:PRO:HG2	2.49	0.42
34:4F:162:TYR:OH	44:IM:81:GLY:HA3	2.20	0.42
37:5D:39:ARG:CG	44:KK:260:VAL:HG22	2.49	0.42
38:5H:20:LEU:HD12	45:NL:45:GLU:HG2	2.02	0.42
39:5J:77:LYS:HE3	39:5J:78:THR:CG2	2.49	0.42
39:5K:45:LYS:HE2	44:JK:430:LYS:HZ1	1.84	0.42
35:5R:126:THR:OG1	35:5R:147:ARG:HG2	2.19	0.42
35:5R:157:THR:O	35:5R:157:THR:CG2	2.66	0.42
35:5R:409:PRO:HD3	45:EJ:218:THR:OG1	2.20	0.42
35:5R:485:TYR:HA	35:5R:489:ASP:OD2	2.20	0.42
35:5R:551:LEU:O	35:5R:554:LYS:HB2	2.20	0.42
36:5S:187:LEU:HD22	36:5S:240:MET:HG3	2.02	0.42
41:6G:214:LEU:CD2	45:VF:174:LYS:HE2	2.50	0.42
41:6G:227:PRO:HD3	44:VC:338:LYS:CD	2.50	0.42
11:6Q:64:ASP:HB2	11:6Q:65:PRO:CD	2.44	0.42
35:6R:323:LEU:HD13	45:CN:276:ARG:CD	2.44	0.42
35:6R:432:SER:OG	35:6R:433:GLN:N	2.51	0.42
35:6R:497:GLN:HB2	35:6R:502:ARG:HG2	2.01	0.42
35:7R:88:TYR:CB	35:7R:122:LEU:HG	2.50	0.42
35:7R:430:LEU:HB2	35:7R:442:PHE:CE1	2.55	0.42
42:8L:121:UNK:O	42:8L:124:UNK:N	2.53	0.42
44:AA:124:LYS:HE2	44:AA:124:LYS:HB2	1.88	0.42
44:AA:212:ILE:HD12	44:AA:300:ASN:HA	2.01	0.42
44:AA:283:HIS:CE1	44:MA:89:PRO:HD3	2.53	0.42
45:AB:403:MET:HB3	45:AB:407:GLU:OE2	2.20	0.42
44:AC:69:ASP:OD1	44:AC:70:LEU:N	2.53	0.42
45:AD:281:TYR:HD2	45:MD:87:PRO:CD	2.33	0.42
45:AD:404:ASP:OD1	45:AD:405:GLU:OE1	2.38	0.42
44:AE:22:GLU:HG3	44:AE:83:TYR:CE2	2.55	0.42
44:AE:63:PRO:HD3	44:AE:86:LEU:CD1	2.50	0.42
44:AE:176:GLN:HG3	45:AF:331:LEU:HD21	2.02	0.42
45:AF:202:ILE:CD1	45:AF:300:MET:HG2	2.46	0.42
45:AF:398:TYR:N	45:AF:398:TYR:CD2	2.87	0.42
44:AG:3:GLU:CG	44:AG:129:CYS:HB3	2.50	0.42
45:AH:156:ARG:NH1	45:AH:195:ASN:O	2.53	0.42
45:AH:186:THR:HG23	45:AH:187:LEU:N	2.34	0.42
44:AI:340:THR:HG23	44:AI:341:ILE:HG13	2.02	0.42
45:AJ:21:TRP:HA	45:AJ:24:ILE:CG2	2.45	0.42
45:AJ:178:THR:HG22	45:AJ:180:VAL:H	1.85	0.42
45:AJ:200:MET:CE	45:AJ:236:VAL:HG21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AL:149:THR:HG23	45:AL:150:LEU:N	2.35	0.42
45:AL:169:VAL:HA	45:AL:202:ILE:O	2.20	0.42
44:AM:6:SER:HA	44:AM:136:LEU:O	2.19	0.42
45:AN:214:THR:O	45:AN:275:SER:HB3	2.20	0.42
45:AN:291:GLN:NE2	45:AN:292:GLN:HB2	2.35	0.42
45:AN:342:VAL:HG22	45:AN:344:TRP:HD1	1.84	0.42
44:BA:202:VAL:CG1	44:BA:204:LEU:HG	2.47	0.42
44:BA:203:MET:HG2	44:BA:268:MET:O	2.19	0.42
44:BA:257:THR:HG22	45:BD:397:TRP:CZ2	2.55	0.42
45:BB:375:GLN:O	45:BB:379:LYS:HG3	2.20	0.42
44:BC:54:SER:OG	44:BC:62:VAL:HG13	2.19	0.42
44:BC:390:ARG:HG3	44:BC:391:LEU:N	2.34	0.42
45:BD:190:HIS:CE1	45:BD:414:ASN:HD22	2.38	0.42
45:BD:256:ASN:HD22	45:BD:350:LYS:HE2	1.84	0.42
44:BE:198:THR:CG2	44:BE:199:ASP:N	2.83	0.42
45:BF:100:ASN:O	45:BF:103:LYS:N	2.52	0.42
44:BG:23:LEU:HD13	44:BG:233:GLN:OE1	2.20	0.42
44:BG:51:THR:HG21	44:BG:243:ARG:CB	2.48	0.42
44:BG:154:LEU:HD13	44:BG:198:THR:HG1	1.85	0.42
45:BH:61:PRO:HG3	45:BH:84:LEU:HB3	2.02	0.42
44:BI:132:LEU:HD23	44:BI:164:LYS:HE2	2.00	0.42
44:BI:268:MET:SD	44:BI:268:MET:N	2.93	0.42
44:BI:324:VAL:HG22	44:BI:325:PRO:HD2	2.02	0.42
44:BK:88:HIS:C	44:BK:91:GLN:HB2	2.40	0.42
44:BK:183:GLU:HG2	44:BK:184:PRO:CD	2.50	0.42
44:BK:306:ASP:O	44:BK:383:ALA:HB1	2.19	0.42
45:BL:135:ILE:HG13	45:BL:166:THR:HG22	2.02	0.42
45:BL:222:TYR:CD1	48:BL:502:GDP:C6	3.08	0.42
45:BN:143:THR:CG2	45:BN:144:GLY:N	2.83	0.42
44:CA:171:ILE:HG21	44:CA:206:ASN:OD1	2.19	0.42
44:CA:185:TYR:HD1	44:CA:395:PHE:CD2	2.37	0.42
44:CA:257:THR:HG21	45:CB:98:GLY:O	2.20	0.42
44:CA:353:VAL:O	44:CA:353:VAL:HG13	2.20	0.42
45:CB:68:LEU:HG	45:CB:96:GLY:N	2.30	0.42
45:CB:180:VAL:CG2	45:CB:183:TYR:HB2	2.43	0.42
45:CD:259:PRO:C	45:CD:260:PHE:CD2	2.94	0.42
45:CD:325:GLU:O	45:CD:329:GLN:HB2	2.19	0.42
44:CE:372:MET:C	44:CE:373:ARG:HD2	2.40	0.42
44:CE:425:LEU:HD23	44:CE:425:LEU:HA	1.88	0.42
45:CF:7:ILE:CD1	45:CF:151:LEU:HD22	2.50	0.42
45:CF:60:VAL:HG21	45:CF:86:ARG:NH1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:200:MET:HA	45:CF:266:PHE:O	2.19	0.42
44:CG:206:ASN:OD1	44:CG:207:GLU:N	2.53	0.42
44:CG:326:LYS:HG3	45:CH:212:PHE:CE2	2.54	0.42
45:CH:4:ILE:HG12	45:CH:50:TYR:HE1	1.83	0.42
44:CI:198:THR:HG22	44:CI:200:VAL:O	2.19	0.42
45:CJ:167:PHE:HE1	45:CJ:200:MET:SD	2.42	0.42
45:CJ:186:THR:O	45:CJ:189:VAL:HG12	2.20	0.42
44:CK:61:HIS:O	44:CK:63:PRO:HD3	2.20	0.42
44:CK:62:VAL:HG21	44:DK:283:HIS:O	2.20	0.42
45:CL:3:GLU:N	45:CL:3:GLU:OE1	2.52	0.42
44:CM:70:LEU:HA	44:CM:95:GLY:HA3	2.01	0.42
44:CM:145:THR:HG23	46:CM:501:GTP:O2G	2.20	0.42
44:CM:295:ALA:CB	44:CM:377:MET:HE2	2.45	0.42
45:CN:47:ILE:HG22	45:CN:47:ILE:O	2.19	0.42
45:CN:107:THR:CG2	45:CN:108:GLU:N	2.81	0.42
45:CN:139:LEU:HD23	45:CN:185:ALA:CA	2.49	0.42
45:CN:389:PHE:O	45:CN:392:LYS:N	2.43	0.42
44:DA:2:ARG:HB2	44:DA:133:GLN:CG	2.50	0.42
45:DB:130:LEU:HD21	45:DB:133:PHE:CZ	2.55	0.42
45:DB:161:ASP:O	45:DB:162:ARG:NH2	2.53	0.42
44:DC:256:GLN:OE1	45:DD:397:TRP:CZ2	2.72	0.42
44:DC:437:ILE:O	44:DC:437:ILE:HG13	2.20	0.42
45:DD:8:GLN:HE21	45:DD:16:ILE:HB	1.83	0.42
45:DD:101:TRP:HB3	45:DD:398:TYR:CE1	2.38	0.42
45:DD:274:THR:HG21	45:DD:279:GLN:HA	2.00	0.42
45:DD:309:ARG:HA	45:DD:340:TYR:O	2.19	0.42
45:DD:318:ARG:HH11	45:DD:358:PRO:HG3	1.84	0.42
45:DD:391:ARG:HD2	45:DD:391:ARG:HA	1.87	0.42
45:DF:214:THR:HG21	45:DF:273:LEU:HB2	2.01	0.42
45:DF:257:LEU:HA	45:DF:312:THR:HG21	2.02	0.42
44:DG:88:HIS:HB3	44:DG:91:GLN:CD	2.40	0.42
44:DG:105:ARG:O	44:DG:110:ILE:HG12	2.20	0.42
44:DG:258:ASN:O	45:DH:179:VAL:HG21	2.20	0.42
44:DG:289:ALA:O	44:DG:292:THR:HG22	2.20	0.42
45:DH:121:ARG:HB2	45:DH:121:ARG:HH11	1.84	0.42
45:DH:133:PHE:HB2	45:DH:164:MET:HE1	2.02	0.42
45:DH:204:ASN:O	45:DH:207:LEU:N	2.52	0.42
45:DJ:76:VAL:O	45:DJ:82:GLY:HA3	2.20	0.42
45:DJ:275:SER:N	45:DJ:278:SER:OG	2.53	0.42
44:DK:320:ARG:N	44:DK:374:ALA:O	2.53	0.42
44:DK:346:TRP:CE3	44:DK:346:TRP:O	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:97:ALA:CB	45:DL:103:LYS:HG2	2.50	0.42
45:DL:165:GLU:CD	45:DL:250:LEU:HD23	2.39	0.42
45:DL:169:VAL:HG12	45:DL:202:ILE:CB	2.33	0.42
44:DM:1:MET:HE1	45:DN:94:GLN:HG2	2.01	0.42
44:DM:259:LEU:HD11	44:DM:316:SER:HB3	2.00	0.42
45:DN:23:VAL:HG21	45:DN:230:SER:HB3	2.00	0.42
45:DN:137:HIS:CE1	45:DN:139:LEU:HD12	2.55	0.42
45:EB:144:GLY:HA3	48:EB:501:GDP:O1B	2.19	0.42
45:EB:324:LYS:CA	44:EC:210:TYR:HE2	2.31	0.42
44:EC:1:MET:HE2	45:ED:92:PHE:CE2	2.54	0.42
45:ED:117:LEU:HD13	45:ED:154:LYS:HE2	2.02	0.42
45:ED:263:LEU:HD12	45:ED:263:LEU:N	2.34	0.42
44:EE:317:MET:HE2	44:EE:319:TYR:CZ	2.55	0.42
45:EF:44:LEU:HD23	45:EF:47:ILE:HD12	2.01	0.42
45:EF:146:GLY:O	45:EF:149:THR:HG22	2.20	0.42
45:EF:159:TYR:HB3	45:EF:162:ARG:HG2	2.00	0.42
44:EG:183:GLU:N	44:EG:184:PRO:CD	2.81	0.42
44:EG:317:MET:HE2	44:EG:377:MET:HB2	2.00	0.42
44:EI:235:ILE:HD12	44:EI:235:ILE:H	1.84	0.42
44:EI:316:SER:HB2	44:EI:352:LYS:HG2	2.02	0.42
44:EM:160:ASP:OD2	44:EM:161:TYR:CE2	2.73	0.42
44:EM:362:VAL:HG13	44:EM:362:VAL:O	2.20	0.42
45:EN:86:ARG:NH2	45:EN:87:PRO:HD2	2.34	0.42
45:EN:103:LYS:HG3	45:EN:108:GLU:HG2	2.01	0.42
45:EN:408:PHE:O	45:EN:411:ALA:HB3	2.19	0.42
44:FA:114:ILE:O	44:FA:114:ILE:HG22	2.19	0.42
45:FB:245:GLN:HG3	45:FB:353:ILE:HG21	2.01	0.42
44:FE:121:ARG:O	44:FE:125:LEU:HD23	2.20	0.42
44:FE:136:LEU:HB3	44:FE:138:PHE:CE1	2.55	0.42
45:FF:102:ALA:HB2	45:FF:398:TYR:HD1	1.85	0.42
45:FF:299:MET:HG3	45:FF:305:PRO:HG3	2.02	0.42
44:FG:271:SER:HA	44:FG:302:MET:HG3	2.02	0.42
44:FG:319:TYR:HB3	44:FG:323:VAL:HG21	2.02	0.42
45:FH:36:TYR:CE2	45:FH:44:LEU:HD11	2.55	0.42
45:FH:269:GLY:HA3	45:FH:299:MET:CE	2.50	0.42
45:FH:398:TYR:O	45:FH:403:MET:HB3	2.20	0.42
44:FI:88:HIS:O	44:FI:91:GLN:HG3	2.19	0.42
44:FK:181:VAL:HG12	45:FL:256:ASN:CB	2.49	0.42
44:FK:271:SER:CB	44:FK:301:MET:HE1	2.50	0.42
45:FL:46:ARG:HD3	45:FL:48:ASN:OD1	2.19	0.42
45:FL:310:TYR:HA	45:FL:371:SER:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:330:MET:O	45:FL:333:VAL:HB	2.20	0.42
44:FM:16:VAL:HG13	44:FM:17:GLY:N	2.35	0.42
44:FM:31:GLN:HB3	44:FM:32:PRO:CD	2.50	0.42
44:FM:103:PHE:HB2	44:FM:186:ASN:CB	2.42	0.42
44:FM:360:PRO:HG2	44:FM:374:ALA:HB2	2.02	0.42
44:GA:16:VAL:HG11	44:GA:231:ILE:HD13	2.00	0.42
44:GA:75:ILE:HG21	44:GA:79:ARG:NH1	2.35	0.42
44:GA:145:THR:HG23	44:GA:146:GLY:N	2.35	0.42
45:GB:42:LEU:C	45:GB:45:GLU:HG3	2.39	0.42
45:GB:237:THR:CG2	45:GB:241:ARG:HE	2.28	0.42
45:GB:413:SER:O	45:GB:416:ASN:OD1	2.37	0.42
45:GD:175:VAL:HG23	45:GD:175:VAL:O	2.20	0.42
45:GD:289:LEU:HB3	45:GD:365:VAL:HG21	2.02	0.42
44:GE:387:VAL:HG12	44:GE:390:ARG:HH11	1.85	0.42
45:GF:318:ARG:HH11	45:GF:358:PRO:CD	2.33	0.42
44:GG:247:ALA:H	44:GG:357:TYR:HE1	1.68	0.42
44:GG:271:SER:CA	44:GG:302:MET:HE2	2.50	0.42
45:GH:28:HIS:HB3	45:GH:30:ILE:HD11	2.02	0.42
44:GI:66:VAL:HG22	44:GI:68:LEU:HD11	2.01	0.42
45:GJ:415:MET:O	45:GJ:419:VAL:HG23	2.20	0.42
44:GK:99:ALA:HB3	44:GK:145:THR:HG22	2.01	0.42
44:GK:298:PRO:HA	44:GK:307:PRO:CG	2.50	0.42
45:GL:8:GLN:NE2	45:GL:14:ASN:N	2.68	0.42
45:GL:180:VAL:HG22	45:GL:180:VAL:O	2.20	0.42
45:GL:268:ILE:HG22	45:GL:368:VAL:HG22	2.01	0.42
44:GM:3:GLU:O	44:GM:133:GLN:HG2	2.19	0.42
44:GM:11:GLN:HG3	44:GM:74:VAL:CG1	2.47	0.42
44:GM:22:GLU:HG3	44:GM:83:TYR:OH	2.20	0.42
45:GN:116:VAL:HG22	45:GN:151:LEU:HD11	2.01	0.42
44:HA:28:HIS:O	44:HA:30:ILE:HD12	2.19	0.42
44:HA:71:GLU:CD	44:HA:72:PRO:HD2	2.40	0.42
44:HA:175:PRO:HG2	44:HA:304:LYS:CG	2.50	0.42
45:HB:60:VAL:O	45:HB:60:VAL:HG13	2.20	0.42
44:HC:259:LEU:HD21	44:HC:316:SER:CB	2.49	0.42
44:HE:5:ILE:HD12	44:HE:122:ILE:HG23	2.02	0.42
44:HE:62:VAL:O	44:HE:62:VAL:CG1	2.68	0.42
45:HF:207:LEU:HD23	45:HF:300:MET:SD	2.60	0.42
44:HG:99:ALA:HB2	44:HG:110:ILE:HD11	2.02	0.42
44:HG:103:PHE:CE2	44:HG:189:LEU:HD13	2.55	0.42
45:HH:167:PHE:CE1	45:HH:233:MET:HG3	2.48	0.42
45:HH:375:GLN:O	45:HH:379:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:100:ALA:O	45:HJ:255:VAL:HG21	2.20	0.42
44:HI:145:THR:HG23	44:HI:146:GLY:N	2.35	0.42
44:HI:166:LYS:C	44:HI:167:LEU:HD12	2.40	0.42
45:HJ:145:SER:OG	45:HJ:188:SER:HB3	2.20	0.42
45:HJ:258:ILE:HG13	45:HJ:266:PHE:CZ	2.49	0.42
45:HJ:263:LEU:HG	45:HJ:422:TYR:CD1	2.55	0.42
44:HK:272:TYR:HD1	44:HK:376:CYS:CB	2.31	0.42
44:HK:301:MET:HG3	44:HK:307:PRO:HG2	2.01	0.42
45:HL:49:VAL:HG21	45:HL:240:LEU:HD22	2.02	0.42
45:HL:178:THR:HG21	45:HL:180:VAL:HG12	2.01	0.42
45:HL:217:LEU:HD12	45:HL:217:LEU:O	2.19	0.42
44:HM:309:HIS:O	44:HM:383:ALA:HB2	2.20	0.42
44:HM:328:VAL:O	44:HM:332:ILE:HG12	2.20	0.42
45:HN:60:VAL:CG2	45:IN:281:TYR:HE2	2.32	0.42
45:HN:299:MET:HG3	45:HN:300:MET:N	2.35	0.42
44:IA:98:ASP:OD1	44:IA:98:ASP:C	2.58	0.42
45:IB:3:GLU:OE1	45:IB:129:CYS:O	2.37	0.42
45:IB:12:CYS:O	45:IB:15:GLN:HB2	2.20	0.42
45:IB:99:ASN:HA	45:IB:142:GLY:HA3	2.01	0.42
45:IB:154:LYS:C	45:IB:157:GLU:H	2.23	0.42
45:IB:237:THR:O	45:IB:237:THR:HG23	2.20	0.42
45:ID:3:GLU:HB3	45:ID:49:VAL:HA	2.02	0.42
45:ID:6:HIS:HB3	45:ID:63:ALA:CB	2.49	0.42
44:IE:210:TYR:CZ	45:IF:324:LYS:HB2	2.54	0.42
44:IE:332:ILE:HD12	44:IE:332:ILE:H	1.84	0.42
45:IF:24:ILE:C	45:IF:27:GLU:HG2	2.40	0.42
45:IF:112:LEU:O	45:IF:112:LEU:HG	2.20	0.42
44:IG:200:VAL:HG13	44:IG:268:MET:SD	2.59	0.42
45:IH:238:CYS:HA	45:IH:241:ARG:NH2	2.35	0.42
45:IJ:31:ASP:OD2	45:IJ:37:HIS:ND1	2.53	0.42
45:IJ:86:ARG:HH11	44:JG:284:GLU:HG3	1.84	0.42
45:IL:175:VAL:HG22	45:IL:205:GLU:HB2	2.02	0.42
44:IM:81:GLY:O	44:IM:83:TYR:N	2.53	0.42
44:IM:156:ARG:HB3	44:IM:156:ARG:CZ	2.50	0.42
44:IM:170:THR:HB	44:IM:172:TYR:CE1	2.55	0.42
45:IN:16:ILE:HD12	45:IN:16:ILE:H	1.84	0.42
45:IN:54:ALA:CA	44:JK:285:GLN:HA	2.50	0.42
45:IN:64:ILE:CD1	45:IN:123:GLU:HG3	2.33	0.42
45:IN:149:THR:O	45:IN:152:ILE:HB	2.20	0.42
45:IN:286:VAL:N	45:IN:287:PRO:CD	2.82	0.42
45:JB:61:PRO:CG	45:JB:84:LEU:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JC:350:GLY:CA	45:JF:179:VAL:HG12	2.49	0.42
44:JC:372:MET:O	44:JC:373:ARG:HG2	2.20	0.42
45:JD:66:MET:SD	45:JD:147:MET:CE	3.08	0.42
45:JD:69:GLU:HG2	45:JD:70:PRO:CD	2.50	0.42
45:JF:97:ALA:O	45:JF:103:LYS:HE3	2.20	0.42
44:JG:88:HIS:ND1	44:JG:90:GLU:HG2	2.35	0.42
44:JG:220:GLU:O	45:JH:324:LYS:HE2	2.20	0.42
44:JG:238:LEU:HD12	44:JG:238:LEU:O	2.19	0.42
44:JG:286:LEU:N	44:JG:290:GLU:OE2	2.53	0.42
44:JI:268:MET:HB2	44:JI:379:SER:C	2.41	0.42
45:JJ:240:LEU:HD12	45:JJ:240:LEU:O	2.20	0.42
44:JK:229:ARG:O	44:JK:233:GLN:HG2	2.20	0.42
45:JL:272:PRO:HB3	45:JL:289:LEU:HD21	2.02	0.42
44:JM:209:ILE:HG22	44:JM:227:LEU:CD2	2.48	0.42
45:JN:46:ARG:O	45:JN:49:VAL:HG12	2.20	0.42
45:JN:244:GLY:HA3	45:JN:354:CYS:HA	2.02	0.42
45:JN:263:LEU:O	45:JN:370:ASN:ND2	2.53	0.42
45:KB:100:ASN:CB	45:KB:103:LYS:HZ3	2.32	0.42
44:KC:1:MET:SD	44:KC:2:ARG:N	2.93	0.42
44:KC:181:VAL:O	44:KC:181:VAL:HG12	2.19	0.42
44:KC:263:PRO:HD3	45:KF:396:HIS:NE2	2.35	0.42
44:KC:307:PRO:HB2	44:KC:312:TYR:HE1	1.84	0.42
45:KD:51:TYR:HA	45:KD:60:VAL:O	2.20	0.42
45:KD:105:HIS:CD2	45:KD:150:LEU:HG	2.54	0.42
44:KE:55:GLU:HG3	44:KE:56:THR:N	2.34	0.42
44:KE:166:LYS:C	44:KE:167:LEU:HD12	2.39	0.42
44:KE:356:ASN:OD1	44:KE:357:TYR:N	2.47	0.42
44:KG:70:LEU:HD12	44:KG:145:THR:CB	2.50	0.42
44:KG:385:ALA:HA	44:KG:432:TYR:HD2	1.84	0.42
45:KH:265:PHE:HB3	45:KH:374:ILE:CD1	2.50	0.42
45:KH:344:TRP:CZ3	45:KH:345:ILE:HB	2.55	0.42
44:KK:9:VAL:HG11	44:KK:153:LEU:HD12	2.02	0.42
44:KK:169:PHE:CE2	44:KK:202:VAL:HB	2.55	0.42
44:KK:239:THR:CG2	44:KK:243:ARG:HH21	2.33	0.42
44:KK:388:PHE:CZ	44:KK:428:LEU:HD21	2.54	0.42
45:KL:136:THR:HG22	45:KL:167:PHE:HB2	2.01	0.42
44:KM:212:ILE:HD11	44:KM:301:MET:O	2.19	0.42
45:KN:198:GLU:HG2	45:KN:258:ILE:HD11	2.01	0.42
45:KN:397:TRP:O	45:KN:398:TYR:HD1	2.03	0.42
44:LA:2:ARG:HD3	44:LA:2:ARG:N	2.35	0.42
44:LA:51:THR:CB	44:LA:243:ARG:HD3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LB:114:ASP:OD1	45:LB:114:ASP:C	2.58	0.42
44:LC:320:ARG:CD	44:LC:360:PRO:HD3	2.48	0.42
45:LD:68:LEU:CD2	45:LD:97:ALA:HB2	2.29	0.42
45:LD:183:TYR:O	45:LD:187:LEU:HG	2.20	0.42
45:LD:218:THR:O	45:LD:219:THR:HG23	2.20	0.42
45:LD:292:GLN:HE22	45:LD:298:ASN:HD22	1.65	0.42
45:LD:320:ARG:HH12	45:LD:357:PRO:HD3	1.85	0.42
44:LG:56:THR:OG1	44:MG:285:GLN:HA	2.20	0.42
44:LG:288:VAL:HG13	44:LG:289:ALA:N	2.35	0.42
44:LG:404:PHE:CZ	45:LH:259:PRO:HA	2.54	0.42
45:LH:104:GLY:O	45:LH:147:MET:HB2	2.20	0.42
45:LH:166:THR:HG23	45:LH:199:CYS:SG	2.60	0.42
45:LH:317:PHE:CD1	45:LH:317:PHE:N	2.85	0.42
44:LI:302:MET:O	44:LI:302:MET:HG3	2.19	0.42
46:LI:501:GTP:H8	46:LI:501:GTP:O2A	2.03	0.42
45:LJ:236:VAL:HG13	45:LJ:237:THR:N	2.35	0.42
44:LK:49:PHE:CD1	44:LK:49:PHE:C	2.92	0.42
44:LK:88:HIS:HB3	44:LK:91:GLN:HG2	2.01	0.42
44:LK:439:THR:N	45:LN:391:ARG:HH21	2.17	0.42
44:LM:191:THR:HA	44:LM:194:LEU:HG	2.02	0.42
44:MA:173:PRO:HB3	44:MA:183:GLU:HG3	2.02	0.42
44:MA:348:PRO:HB2	45:MD:384:GLN:OE1	2.20	0.42
45:MB:58:ARG:HG2	45:MB:59:TYR:N	2.35	0.42
45:MB:116:VAL:HA	45:MB:119:VAL:CG1	2.49	0.42
45:MB:202:ILE:HA	45:MB:300:MET:O	2.20	0.42
44:MC:22:GLU:HG3	44:MC:83:TYR:CE1	2.55	0.42
44:MC:68:LEU:HD21	44:MC:118:CYS:SG	2.60	0.42
44:MC:141:VAL:HG22	44:MC:190:SER:OG	2.20	0.42
44:MC:155:GLU:HG2	44:MC:197:HIS:NE2	2.35	0.42
44:MC:224:TYR:HB3	46:MC:501:GTP:O6	2.20	0.42
45:MD:167:PHE:HE2	45:MD:233:MET:HB2	1.85	0.42
44:ME:88:HIS:CE1	44:ME:90:GLU:HG2	2.53	0.42
44:ME:251:ASP:H	44:ME:254:GLU:CG	2.32	0.42
44:ME:264:ARG:HH11	44:ME:264:ARG:CG	2.31	0.42
45:MF:62:ARG:HG2	45:MF:123:GLU:OE2	2.20	0.42
44:MG:9:VAL:O	44:MG:9:VAL:HG13	2.20	0.42
44:MG:172:TYR:CE2	44:MG:388:PHE:HE1	2.38	0.42
44:MG:210:TYR:O	44:MG:213:CYS:N	2.53	0.42
44:MG:290:GLU:O	44:MG:291:ILE:C	2.58	0.42
45:MH:65:LEU:HD22	45:MH:90:PHE:CE1	2.55	0.42
44:MI:99:ALA:O	44:MI:105:ARG:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:349:THR:O	44:MI:349:THR:HG23	2.19	0.42
44:MK:30:ILE:HD12	44:MK:36:MET:HG2	2.01	0.42
44:MK:238:LEU:HD23	44:MK:238:LEU:O	2.20	0.42
44:MK:350:GLY:C	45:MN:179:VAL:HG12	2.40	0.42
45:ML:38:GLY:HA3	45:ML:43:GLN:NE2	2.35	0.42
45:ML:101:TRP:NE1	45:ML:146:GLY:HA2	2.31	0.42
45:ML:252:LYS:HD3	45:ML:252:LYS:HA	1.79	0.42
44:MM:102:ASN:CB	44:MM:105:ARG:HG3	2.49	0.42
44:MM:103:PHE:HD1	44:MM:147:SER:OG	2.02	0.42
44:MM:171:ILE:HG12	44:MM:204:LEU:HB3	1.99	0.42
44:MM:183:GLU:O	44:MM:187:SER:HB3	2.19	0.42
44:MM:246:GLY:HA2	44:MM:357:TYR:CD2	2.55	0.42
44:MM:273:ALA:O	44:MM:375:VAL:HG12	2.19	0.42
44:MM:344:VAL:HG22	44:MM:345:ASP:H	1.85	0.42
44:NA:120:ASP:O	44:NA:124:LYS:HD3	2.19	0.42
44:NA:278:ALA:HB2	44:NA:368:LEU:C	2.40	0.42
44:NA:372:MET:CE	44:NA:372:MET:N	2.83	0.42
45:NB:173:PRO:HG2	45:NB:174:LYS:NZ	2.35	0.42
45:NB:190:HIS:HE2	45:NB:414:ASN:HD22	1.68	0.42
44:NC:311:LYS:N	44:NC:311:LYS:HD3	2.35	0.42
45:ND:302:ALA:CB	45:ND:377:MET:HE1	2.50	0.42
45:ND:343:GLU:CG	45:ND:430:ALA:HB2	2.49	0.42
44:NE:422:ARG:HA	44:NE:422:ARG:HD2	1.81	0.42
45:NF:4:ILE:HD12	45:NF:132:GLY:C	2.40	0.42
45:NF:216:LYS:O	45:NF:216:LYS:HG3	2.20	0.42
45:NF:328:GLU:HG3	45:NF:329:GLN:N	2.35	0.42
44:NG:137:VAL:HG12	44:NG:167:LEU:O	2.19	0.42
44:NG:181:VAL:HG13	44:NG:182:VAL:HG13	2.01	0.42
44:NG:313:MET:CE	44:NG:346:TRP:CH2	3.02	0.42
44:NI:188:ILE:HG23	44:NI:425:LEU:HD21	2.02	0.42
44:NK:183:GLU:HG2	44:NK:184:PRO:HD3	2.02	0.42
44:NK:288:VAL:C	44:NK:291:ILE:HG12	2.41	0.42
44:NK:391:LEU:HA	44:NK:391:LEU:HD23	1.82	0.42
45:NL:36:TYR:CE1	45:NL:44:LEU:HD11	2.54	0.42
45:NL:180:VAL:HG11	45:NL:398:TYR:OH	2.20	0.42
45:NL:224:ASP:O	45:NL:228:LEU:HD23	2.20	0.42
45:NL:298:ASN:O	45:NL:298:ASN:OD1	2.38	0.42
44:NM:260:VAL:HG12	44:NM:260:VAL:O	2.20	0.42
44:NM:319:TYR:HA	44:NM:374:ALA:O	2.19	0.42
45:NN:11:GLN:HA	45:NN:72:THR:HG21	2.01	0.42
45:NN:193:VAL:HG13	45:NN:194:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:101:ASN:OD1	45:OB:252:LYS:HE2	2.20	0.42
44:OA:217:LEU:HD21	44:OA:275:ILE:CG2	2.49	0.42
44:OA:314:ALA:O	44:OA:380:ASN:CB	2.68	0.42
45:OB:168:SER:N	45:OB:200:MET:O	2.45	0.42
45:OD:52:ASN:ND2	45:OD:62:ARG:HB3	2.35	0.42
45:OD:258:ILE:HD11	45:OD:266:PHE:CZ	2.54	0.42
45:OF:47:ILE:HG13	45:OF:51:TYR:HB2	2.02	0.42
45:OF:101:TRP:HD1	45:OF:145:SER:CB	2.32	0.42
44:OG:188:ILE:HG23	44:OG:189:LEU:N	2.34	0.42
45:OH:16:ILE:HD13	45:OH:226:ASN:OD1	2.20	0.42
45:OH:283:ALA:C	45:OH:284:LEU:HD22	2.40	0.42
44:OI:115:VAL:HG11	44:OI:152:LEU:HD21	2.02	0.42
44:OI:155:GLU:HA	44:OI:197:HIS:CD2	2.55	0.42
44:OI:177:VAL:HG22	45:OJ:331:LEU:HD13	2.02	0.42
45:OJ:65:LEU:HD11	45:OJ:85:PHE:CE2	2.55	0.42
45:OJ:152:ILE:HG23	45:OJ:164:MET:HE2	2.02	0.42
45:OJ:220:PRO:CB	45:OJ:225:LEU:HD21	2.50	0.42
44:OK:189:LEU:HD23	44:OK:189:LEU:C	2.40	0.42
45:OL:3:GLU:OE1	45:OL:3:GLU:N	2.53	0.42
45:OL:20:PHE:CD2	45:OL:233:MET:HE3	2.54	0.42
45:OL:102:ALA:HB3	45:OL:401:GLU:OE2	2.20	0.42
44:OM:60:LYS:HG2	44:OM:61:HIS:N	2.35	0.42
44:OM:115:VAL:HB	44:OM:152:LEU:CD2	2.50	0.42
44:OM:183:GLU:N	44:OM:184:PRO:CD	2.83	0.42
45:ON:374:ILE:HD11	45:ON:422:TYR:CZ	2.55	0.42
44:PA:21:TRP:CZ3	44:PA:63:PRO:HB3	2.55	0.42
44:PA:271:SER:HB2	44:PA:377:MET:CG	2.50	0.42
44:PA:277:SER:O	44:PA:369:ALA:HB2	2.19	0.42
45:PB:342:VAL:HG13	45:PB:345:ILE:CG2	2.50	0.42
44:PC:85:GLN:NE2	44:PC:86:LEU:HB2	2.34	0.42
45:PD:169:VAL:CG2	45:PD:202:ILE:HB	2.42	0.42
44:PE:63:PRO:HG3	44:PE:86:LEU:HG	2.01	0.42
44:PE:182:VAL:O	44:PE:182:VAL:HG22	2.20	0.42
44:PE:259:LEU:HD13	44:PE:268:MET:HE2	2.01	0.42
45:PF:132:GLY:O	45:PF:133:PHE:HD1	2.02	0.42
44:PG:88:HIS:CG	44:PG:89:PRO:HD2	2.54	0.42
45:PH:4:ILE:HG22	45:PH:132:GLY:N	2.34	0.42
45:PJ:1:MET:HG3	45:PJ:2:ARG:N	2.34	0.42
44:PK:35:GLN:OE1	44:PK:59:GLY:HA3	2.19	0.42
44:PK:182:VAL:O	44:PK:182:VAL:CG1	2.68	0.42
44:PK:221:ARG:CZ	45:PL:321:MET:HE2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:133:PHE:HD2	45:PL:155:VAL:HG11	1.84	0.42
44:PM:48:ALA:CA	44:PM:243:ARG:HB2	2.49	0.42
44:PM:121:ARG:O	44:PM:125:LEU:HG	2.20	0.42
44:PM:425:LEU:HD23	44:PM:425:LEU:HA	1.92	0.42
45:PN:319:GLY:CA	45:PN:321:MET:HE1	2.50	0.42
45:PN:389:PHE:HE1	45:PN:395:LEU:HD13	1.85	0.42
45:QB:26:ASP:C	45:QB:29:GLY:H	2.24	0.42
45:QB:68:LEU:HB2	45:QB:147:MET:HE3	2.01	0.42
45:QB:269:GLY:HA2	45:QB:300:MET:SD	2.60	0.42
45:QF:113:ILE:CD1	45:QF:150:LEU:HD22	2.30	0.42
45:QF:254:ALA:HB1	44:QG:407:TRP:CH2	2.50	0.42
45:QF:393:ALA:O	45:QF:394:PHE:HB2	2.20	0.42
44:QG:71:GLU:HA	44:QG:72:PRO:HD3	1.90	0.42
45:QH:19:LYS:HG3	45:QH:23:VAL:CG2	2.45	0.42
45:QH:134:GLN:O	45:QH:134:GLN:CG	2.68	0.42
44:QI:5:ILE:HB	44:QI:135:PHE:CD1	2.53	0.42
44:QI:270:SER:HB2	44:QI:378:ILE:HD13	2.02	0.42
45:QJ:68:LEU:HD23	45:QJ:97:ALA:CB	2.47	0.42
45:QJ:147:MET:CA	45:QJ:150:LEU:HD12	2.47	0.42
45:QJ:321:MET:HB3	45:QJ:363:MET:HE2	2.01	0.42
44:QK:317:MET:HE1	44:QK:377:MET:HG2	2.02	0.42
44:QK:319:TYR:O	44:QK:356:ASN:HB3	2.19	0.42
44:QK:387:VAL:HG23	44:QK:388:PHE:N	2.35	0.42
45:QL:286:VAL:CG1	45:QL:287:PRO:CD	2.97	0.42
44:QM:217:LEU:HD13	44:QM:367:ASP:HB3	2.01	0.42
44:QM:241:SER:HA	44:QM:356:ASN:OD1	2.20	0.42
44:QM:286:LEU:CA	44:QM:290:GLU:OE2	2.68	0.42
45:RD:11:GLN:HA	45:RD:72:THR:HG21	2.02	0.42
45:RD:231:ALA:O	45:RD:234:SER:OG	2.08	0.42
45:RD:306:ARG:HA	45:RD:340:TYR:CE2	2.41	0.42
45:RD:375:GLN:NE2	45:RD:378:PHE:HB2	2.34	0.42
44:RE:72:PRO:O	44:RE:75:ILE:HB	2.20	0.42
44:RE:151:SER:O	44:RE:155:GLU:HG3	2.19	0.42
44:RE:268:MET:CG	44:RE:380:ASN:HB2	2.47	0.42
45:RF:60:VAL:CG2	45:RF:86:ARG:HB2	2.50	0.42
45:RF:130:LEU:HD21	45:RF:133:PHE:CZ	2.55	0.42
45:RF:329:GLN:O	45:RF:332:ASN:HB3	2.20	0.42
44:RG:52:PHE:HZ	44:RG:239:THR:OG1	2.03	0.42
45:RH:69:GLU:CD	45:RH:70:PRO:HD2	2.40	0.42
45:RH:183:TYR:HD1	45:RH:385:PHE:HE1	1.67	0.42
44:RI:164:LYS:CE	44:RI:164:LYS:HA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RI:164:LYS:HA	44:RI:164:LYS:HE2	2.01	0.42
44:RI:363:VAL:HG13	44:RI:363:VAL:O	2.20	0.42
45:RJ:285:THR:C	45:RJ:289:LEU:HG	2.39	0.42
44:RM:141:VAL:HG13	44:RM:142:GLY:N	2.35	0.42
44:RM:145:THR:HG23	44:RM:146:GLY:N	2.35	0.42
44:SA:32:PRO:HB3	44:SA:83:TYR:HE1	1.85	0.42
45:SB:286:VAL:HA	45:SB:289:LEU:CG	2.50	0.42
45:SD:67:ASP:OD1	45:SD:69:GLU:N	2.45	0.42
45:SD:286:VAL:O	45:SD:289:LEU:HB2	2.20	0.42
44:SE:290:GLU:O	44:SE:294:SER:N	2.52	0.42
44:SE:399:TYR:O	44:SE:402:ARG:N	2.44	0.42
45:SF:171:PRO:HG3	45:SF:181:GLU:HB3	2.01	0.42
45:SF:317:PHE:HB3	45:SF:321:MET:HE2	2.00	0.42
45:SJ:395:LEU:O	45:SJ:395:LEU:HG	2.20	0.42
44:SK:114:ILE:O	44:SK:114:ILE:CG2	2.68	0.42
45:SL:238:CYS:SG	45:SL:239:CYS:N	2.92	0.42
45:SN:17:GLY:O	45:SN:20:PHE:N	2.53	0.42
44:TA:20:CYS:HA	44:TA:232:ALA:CB	2.50	0.42
44:TA:217:LEU:HD11	44:TA:368:LEU:CD2	2.49	0.42
44:TC:85:GLN:O	44:UC:283:HIS:NE2	2.52	0.42
45:TD:25:SER:CB	45:TD:30:ILE:HB	2.50	0.42
45:TD:161:ASP:O	45:TD:162:ARG:NH2	2.53	0.42
45:TD:231:ALA:HA	45:TD:234:SER:OG	2.20	0.42
45:TD:321:MET:CE	45:TD:326:VAL:HB	2.50	0.42
44:TE:182:VAL:HG22	44:TE:182:VAL:O	2.19	0.42
44:TE:210:TYR:CE1	44:TE:227:LEU:HD11	2.55	0.42
44:TE:295:ALA:HB1	44:TE:377:MET:HB3	2.02	0.42
45:TF:151:LEU:HA	45:TF:154:LYS:CB	2.38	0.42
44:TG:224:TYR:O	44:TG:228:ASN:ND2	2.53	0.42
45:TH:54:ALA:HB2	45:UH:283:ALA:HB2	2.02	0.42
44:TI:3:GLU:CB	44:TI:129:CYS:HB3	2.50	0.42
44:TI:305:CYS:O	44:TI:307:PRO:HD3	2.20	0.42
45:TJ:6:HIS:HB2	45:TJ:21:TRP:HZ2	1.84	0.42
45:TJ:105:HIS:ND1	45:TJ:150:LEU:HD12	2.34	0.42
45:TJ:116:VAL:O	45:TJ:119:VAL:HG12	2.20	0.42
45:TJ:217:LEU:HD11	45:TJ:220:PRO:HG3	2.02	0.42
45:TJ:290:THR:HG23	45:TJ:291:GLN:N	2.35	0.42
44:TK:183:GLU:HG2	44:TK:184:PRO:CD	2.50	0.42
45:TL:12:CYS:HA	48:TL:501:GDP:C8	2.54	0.42
45:TL:21:TRP:CE3	45:TL:61:PRO:HB3	2.55	0.42
45:TL:183:TYR:HE2	45:TL:394:PHE:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TL:242:PHE:CD1	45:TL:243:PRO:HD2	2.55	0.42
45:TL:313:ALA:CB	45:TL:349:ILE:HG12	2.50	0.42
45:TL:386:THR:HG23	45:TL:387:ALA:N	2.35	0.42
44:TM:132:LEU:HD21	44:TM:134:GLY:O	2.20	0.42
45:TN:2:ARG:NH1	45:TN:240:LEU:HG	2.35	0.42
45:TN:32:PRO:HG3	45:TN:81:PHE:CZ	2.55	0.42
45:TN:151:LEU:HD23	45:TN:155:VAL:HG23	2.02	0.42
44:UA:384:ILE:O	44:UA:384:ILE:HG13	2.20	0.42
45:UB:222:TYR:HB3	45:UB:226:ASN:ND2	2.34	0.42
45:UB:344:TRP:HB3	45:UB:430:ALA:HB2	2.01	0.42
44:UC:121:ARG:O	44:UC:125:LEU:HG	2.19	0.42
44:UC:217:LEU:HD22	44:UC:367:ASP:HB3	2.01	0.42
44:UC:348:PRO:HG3	45:UD:384:GLN:HB2	2.01	0.42
45:UD:8:GLN:OE1	45:UD:14:ASN:HA	2.19	0.42
44:UE:261:PRO:HG3	44:UE:313:MET:CG	2.50	0.42
45:UF:60:VAL:HG13	45:UF:60:VAL:O	2.20	0.42
45:UH:5:VAL:HG12	45:UH:62:ARG:CB	2.49	0.42
45:UH:29:GLY:O	45:UH:30:ILE:HD13	2.20	0.42
45:UH:319:GLY:O	45:UH:321:MET:HG2	2.20	0.42
44:UI:12:GLY:HA2	46:UI:501:GTP:C8	2.55	0.42
45:UJ:105:HIS:CG	45:UJ:150:LEU:HD12	2.54	0.42
45:UJ:386:THR:HG23	45:UJ:387:ALA:N	2.33	0.42
44:UK:425:LEU:HD23	44:UK:425:LEU:HA	1.88	0.42
44:UM:205:ASP:CG	44:UM:303:ALA:HA	2.40	0.42
45:UN:375:GLN:HA	45:UN:378:PHE:HB2	2.02	0.42
45:UN:405:GLU:O	45:UN:408:PHE:HB2	2.20	0.42
45:VB:295:ASP:CG	45:VB:297:LYS:HG2	2.40	0.42
45:VD:192:LEU:HD12	45:VD:196:ALA:HB2	2.02	0.42
45:VD:327:ASP:O	45:VD:330:MET:HB2	2.20	0.42
44:VE:206:ASN:O	44:VE:209:ILE:HG12	2.20	0.42
44:VG:137:VAL:HG11	44:VG:154:LEU:HD21	2.01	0.42
45:VH:149:THR:HG23	45:VH:150:LEU:N	2.35	0.42
45:VH:175:VAL:HG22	45:VH:205:GLU:OE1	2.18	0.42
45:VH:334:GLN:OE1	45:VH:347:ASN:HA	2.19	0.42
44:VI:314:ALA:N	44:VI:380:ASN:HB3	2.35	0.42
44:VI:420:GLU:CA	44:VI:423:GLU:HG2	2.49	0.42
45:VL:36:TYR:OH	45:VL:40:SER:O	2.38	0.42
45:VL:130:LEU:CG	45:VL:162:ARG:HD2	2.50	0.42
45:VL:158:GLU:HB3	45:VL:159:TYR:CE1	2.55	0.42
44:VM:190:SER:HB2	44:VM:194:LEU:HD21	2.02	0.42
45:VN:10:GLY:O	45:VN:13:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:181:VAL:H	45:WD:256:ASN:ND2	2.15	0.42
44:WC:268:MET:CB	44:WC:380:ASN:HA	2.50	0.42
44:WC:352:LYS:HD3	45:WF:178:THR:HA	2.01	0.42
45:WD:62:ARG:O	45:WD:62:ARG:HG3	2.20	0.42
45:WD:265:PHE:CD2	45:WD:378:PHE:CZ	3.07	0.42
45:WD:372:THR:HA	45:WD:422:TYR:CZ	2.54	0.42
44:WE:171:ILE:HD12	44:WE:171:ILE:N	2.34	0.42
44:WE:224:TYR:HD2	46:WE:501:GTP:O6	2.02	0.42
45:WF:22:GLU:HA	45:WF:81:PHE:HD2	1.84	0.42
44:WI:176:GLN:HG2	44:WI:177:VAL:N	2.35	0.42
45:WJ:105:HIS:HD1	45:WJ:106:TYR:HD1	1.67	0.42
45:WJ:372:THR:HA	45:WJ:422:TYR:CE1	2.55	0.42
45:WL:46:ARG:HD2	45:WL:46:ARG:HA	1.84	0.42
44:WM:24:PHE:CE1	44:WM:52:PHE:CE2	3.07	0.42
44:WM:150:GLY:O	44:WM:154:LEU:HD23	2.19	0.42
44:WM:203:MET:HB2	44:WM:303:ALA:HB2	2.02	0.42
44:WM:238:LEU:HD23	44:WM:238:LEU:O	2.20	0.42
44:WM:314:ALA:N	44:WM:380:ASN:HB3	2.30	0.42
44:WM:356:ASN:OD1	44:WM:357:TYR:N	2.47	0.42
45:WN:4:ILE:HG22	45:WN:132:GLY:H	1.82	0.42
45:WN:268:ILE:HG13	45:WN:300:MET:HG3	2.02	0.42
45:WN:295:ASP:OD2	45:WN:297:LYS:HE2	2.20	0.42
1:6H:167:LYS:CE	45:FB:360:GLY:O	2.58	0.41
7:0F:207:THR:HA	44:FC:219:ILE:CD1	2.26	0.41
8:0G:178:LYS:HD3	44:LM:329:ASN:CB	2.44	0.41
16:0X:42:LYS:HA	44:LA:58:ALA:HB2	2.00	0.41
25:1P:222:LEU:HD13	44:TG:282:TYR:CE2	2.55	0.41
15:1V:106:TYR:HH	44:LI:193:SER:HA	1.84	0.41
31:2H:169:THR:HG21	44:MA:58:ALA:CB	2.50	0.41
31:2H:174:PHE:HZ	44:AA:245:ASP:HB3	1.85	0.41
32:3I:204:TYR:CD2	44:FK:119:LEU:HB3	2.55	0.41
11:3Q:37:ILE:HD11	36:5S:208:GLN:CD	2.40	0.41
15:3V:98:LEU:HD13	44:LA:402:ARG:NH2	2.35	0.41
37:5B:146:VAL:HG11	44:NG:225:THR:CG2	2.48	0.41
37:5C:40:VAL:CB	44:KG:264:ARG:HG3	2.49	0.41
37:5D:27:LYS:NZ	45:KN:392:LYS:HG2	2.34	0.41
37:5D:58:TYR:N	45:KN:182:PRO:HG2	2.35	0.41
38:5E:126:LEU:HB3	44:OA:373:ARG:HH21	1.85	0.41
38:5F:46:LEU:CD2	44:OC:324:VAL:HG23	2.49	0.41
38:5G:75:PHE:CE2	45:KJ:420:SER:HB3	2.50	0.41
38:5G:154:TYR:CB	38:5H:14:ARG:HH22	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5H:40:TYR:HD2	38:5H:42:TYR:HE1	1.67	0.41
38:5H:71:PRO:CG	38:5H:106:VAL:HG23	2.50	0.41
11:5Q:105:ALA:C	11:5Q:123:MET:HE3	2.41	0.41
35:5R:129:VAL:HB	35:5R:145:ILE:CB	2.32	0.41
35:5R:175:GLU:OE1	45:AL:31:ASP:HB3	2.20	0.41
35:5R:223:PRO:HA	35:5R:224:ASN:HA	2.01	0.41
35:5R:296:GLY:CA	45:DJ:276:ARG:HB3	2.32	0.41
36:5S:87:ILE:HD13	36:5S:122:GLN:HG3	2.02	0.41
40:6F:85:THR:HG22	40:6F:87:ASN:H	1.85	0.41
41:6G:105:LYS:O	41:6G:105:LYS:HG3	2.19	0.41
41:6G:247:ASP:OD1	41:6G:247:ASP:O	2.38	0.41
41:6G:265:LEU:CD2	44:VA:339:ARG:HB2	2.50	0.41
11:6Q:17:ILE:HD13	11:6Q:163:ARG:HH22	1.84	0.41
35:7R:105:GLU:O	35:7R:107:PRO:HD3	2.19	0.41
35:7R:230:GLU:O	35:7R:234:VAL:HG23	2.20	0.41
35:7R:381:PHE:CD2	45:DB:32:PRO:HG2	2.55	0.41
35:7R:427:GLU:HB3	35:7R:507:ARG:HG2	2.01	0.41
35:7R:542:TYR:HD2	35:7R:548:PHE:HB2	1.85	0.41
35:7R:547:GLU:HG2	35:7R:551:LEU:HG	2.02	0.41
44:AA:105:ARG:O	44:AA:110:ILE:HG12	2.20	0.41
44:AA:258:ASN:C	44:AA:259:LEU:HD12	2.41	0.41
44:AA:362:VAL:O	44:AA:362:VAL:HG13	2.20	0.41
45:AB:47:ILE:O	45:AB:47:ILE:HG13	2.20	0.41
45:AB:72:THR:O	45:AB:76:VAL:HG12	2.20	0.41
45:AB:378:PHE:HB3	45:AB:415:MET:CE	2.48	0.41
45:AD:287:PRO:HA	45:AD:329:GLN:NE2	2.35	0.41
45:AD:380:ARG:HE	45:AD:380:ARG:HB3	1.62	0.41
44:AE:401:LYS:HD3	44:AE:401:LYS:N	2.35	0.41
45:AF:208:TYR:CE2	45:AF:225:LEU:HD11	2.55	0.41
44:AG:25:CYS:O	44:AG:30:ILE:HG12	2.20	0.41
45:AH:267:MET:CE	45:AH:299:MET:HB3	2.48	0.41
44:AI:4:VAL:HG23	44:AI:134:GLY:O	2.20	0.41
45:AJ:24:ILE:HD11	45:AJ:241:ARG:CZ	2.49	0.41
45:AJ:143:THR:O	45:AJ:147:MET:HB3	2.20	0.41
45:AJ:163:ILE:HG23	45:AJ:251:ARG:NH2	2.35	0.41
44:AK:253:THR:HG23	44:AK:256:GLN:HE21	1.85	0.41
44:AK:258:ASN:OD1	45:AN:179:VAL:HG12	2.20	0.41
44:AK:280:LYS:HD2	44:MK:88:HIS:HE1	1.83	0.41
45:AL:372:THR:HA	45:AL:422:TYR:HH	1.84	0.41
44:AM:31:GLN:NE2	44:AM:37:PRO:HG3	2.35	0.41
45:AN:317:PHE:HA	45:AN:365:VAL:HG22	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BA:291:ILE:HD13	44:BA:373:ARG:NE	2.35	0.41
44:BC:105:ARG:HD2	45:BD:251:ARG:HH22	1.84	0.41
44:BC:174:SER:HB3	44:BC:175:PRO:CD	2.49	0.41
44:BC:244:PHE:HE1	44:BC:358:GLN:HG2	1.84	0.41
44:BC:317:MET:SD	44:BC:332:ILE:HD11	2.59	0.41
44:BC:384:ILE:O	44:BC:384:ILE:HG13	2.20	0.41
45:BD:268:ILE:HA	45:BD:367:PHE:O	2.20	0.41
44:BE:105:ARG:HD2	45:BF:251:ARG:NH2	2.35	0.41
44:BE:326:LYS:NZ	45:BH:208:TYR:CD2	2.88	0.41
44:BE:394:LYS:HE3	45:BF:346:PRO:CG	2.50	0.41
45:BF:60:VAL:HG21	45:BF:86:ARG:CG	2.24	0.41
45:BF:181:GLU:N	45:BF:182:PRO:CD	2.84	0.41
45:BF:318:ARG:NH2	45:BF:356:ILE:O	2.53	0.41
45:BF:384:GLN:O	45:BF:387:ALA:HB3	2.19	0.41
44:BG:181:VAL:O	44:BG:181:VAL:HG22	2.19	0.41
44:BG:439:THR:HB	45:BJ:390:ARG:NH1	2.35	0.41
45:BH:73:MET:HE2	45:BH:92:PHE:CB	2.49	0.41
45:BH:152:ILE:HD12	45:BH:164:MET:CE	2.50	0.41
44:BI:221:ARG:NH1	45:BJ:322:SER:O	2.53	0.41
44:BI:221:ARG:HH12	45:BJ:325:GLU:HB2	1.85	0.41
44:BI:270:SER:CB	44:BI:378:ILE:HD13	2.51	0.41
44:BK:21:TRP:CZ2	44:BK:65:ALA:HB2	2.55	0.41
44:BK:210:TYR:CE1	44:BK:227:LEU:HD11	2.55	0.41
45:BL:132:GLY:HA3	45:BL:163:ILE:CG1	2.50	0.41
45:BL:189:VAL:CG1	45:BL:415:MET:HE2	2.40	0.41
45:BL:193:VAL:HG22	45:BL:262:ARG:HH12	1.85	0.41
44:BM:53:PHE:CD2	44:BM:63:PRO:HA	2.55	0.41
44:BM:385:ALA:O	44:BM:389:SER:N	2.44	0.41
45:BN:16:ILE:HA	45:BN:226:ASN:OD1	2.20	0.41
45:BN:143:THR:HG22	48:BN:501:GDP:PB	2.60	0.41
44:CA:89:PRO:CD	44:DA:280:LYS:HE2	2.49	0.41
44:CA:268:MET:HG2	44:CA:269:LEU:H	1.84	0.41
45:CB:192:LEU:O	45:CB:196:ALA:HB3	2.19	0.41
44:CC:260:VAL:CG2	45:CD:397:TRP:CZ3	3.02	0.41
44:CC:261:PRO:CD	44:CC:313:MET:SD	3.08	0.41
45:CD:294:PHE:CZ	45:CD:330:MET:HE1	2.55	0.41
44:CE:51:THR:HB	44:CE:243:ARG:HD3	2.01	0.41
44:CE:104:ALA:HB2	44:CE:413:MET:CG	2.49	0.41
44:CE:185:TYR:HD2	44:CE:408:TYR:CE1	2.38	0.41
44:CE:265:ILE:HD13	44:CE:435:VAL:HG21	2.02	0.41
45:CF:105:HIS:CE1	45:CF:150:LEU:HD21	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CG:35:GLN:HE21	44:CG:60:LYS:HG3	1.85	0.41
44:CG:242:LEU:HD11	44:CG:252:ILE:HG13	2.02	0.41
45:CH:262:ARG:O	45:CH:264:HIS:N	2.53	0.41
44:CI:4:VAL:HG21	44:CI:136:LEU:CD1	2.47	0.41
45:CJ:100:ASN:ND2	45:CJ:397:TRP:HB3	2.35	0.41
45:CJ:288:GLU:OE1	45:CJ:291:GLN:NE2	2.53	0.41
44:CK:305:CYS:SG	44:CK:306:ASP:N	2.92	0.41
45:CL:200:MET:SD	45:CL:200:MET:N	2.92	0.41
44:CM:425:LEU:HD23	44:CM:425:LEU:HA	1.94	0.41
45:CN:396:HIS:O	45:CN:399:THR:HG22	2.20	0.41
44:DA:316:SER:O	44:DA:378:ILE:N	2.30	0.41
44:DA:319:TYR:HD2	44:DA:323:VAL:HG21	1.80	0.41
44:DA:320:ARG:NH2	44:DA:360:PRO:HA	2.35	0.41
45:DB:4:ILE:HG22	45:DB:131:GLN:HB3	2.01	0.41
45:DB:253:LEU:HD21	45:DB:316:LEU:HD11	2.02	0.41
44:DC:20:CYS:HA	44:DC:232:ALA:HB1	2.02	0.41
44:DC:28:HIS:NE2	44:DC:48:ALA:HB3	2.36	0.41
44:DC:355:ILE:HD13	45:DD:222:TYR:HE2	1.83	0.41
45:DD:238:CYS:SG	45:DD:318:ARG:NE	2.93	0.41
44:DE:68:LEU:HD11	44:DE:93:ILE:HD13	2.02	0.41
45:DF:25:SER:HB3	45:DF:30:ILE:HG13	2.00	0.41
45:DF:342:VAL:HG12	45:DF:343:GLU:H	1.85	0.41
44:DG:250:VAL:HB	44:DG:318:MET:SD	2.60	0.41
44:DG:256:GLN:HB2	44:DG:260:VAL:CB	2.50	0.41
45:DH:105:HIS:HD1	45:DH:106:TYR:HD1	1.65	0.41
44:DI:212:ILE:HD13	44:DI:215:ARG:HH22	1.85	0.41
44:DI:220:GLU:C	44:DI:222:PRO:HD3	2.40	0.41
44:DI:311:LYS:HB3	44:DI:382:THR:OG1	2.20	0.41
44:DI:387:VAL:HG23	44:DI:388:PHE:N	2.34	0.41
45:DJ:206:ALA:CB	45:DJ:300:MET:HA	2.49	0.41
45:DJ:251:ARG:HD3	44:DK:105:ARG:NH1	2.34	0.41
44:DK:265:ILE:HG23	44:DK:432:TYR:CZ	2.55	0.41
45:DL:19:LYS:O	45:DL:22:GLU:N	2.53	0.41
45:DL:77:ARG:O	45:DL:77:ARG:HG2	2.20	0.41
45:DL:252:LYS:CD	45:DL:350:LYS:HZ1	2.32	0.41
45:DL:259:PRO:HB3	44:DM:404:PHE:CZ	2.55	0.41
44:DM:31:GLN:HE21	44:DM:35:GLN:N	2.14	0.41
45:DN:208:TYR:CE1	45:DN:225:LEU:HD11	2.55	0.41
45:DN:217:LEU:CD1	45:DN:220:PRO:HG3	2.50	0.41
44:EA:143:GLY:HA3	46:EA:501:GTP:PB	2.60	0.41
44:EA:151:SER:O	44:EA:155:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:316:LEU:HD13	45:EB:366:THR:HB	2.02	0.41
44:EC:183:GLU:HG2	44:EC:184:PRO:CD	2.49	0.41
44:EC:437:ILE:HG13	44:EC:437:ILE:O	2.20	0.41
45:ED:149:THR:O	45:ED:152:ILE:HB	2.20	0.41
45:ED:184:ASN:OD1	45:ED:185:ALA:N	2.52	0.41
45:ED:296:ALA:HB2	45:ED:306:ARG:NH2	2.35	0.41
44:EE:69:ASP:CG	44:EE:71:GLU:HG3	2.40	0.41
44:EE:248:LEU:HD23	44:EE:248:LEU:C	2.41	0.41
45:EF:52:ASN:HD21	45:EF:62:ARG:NE	2.14	0.41
45:EF:135:ILE:O	45:EF:166:THR:HA	2.20	0.41
44:EG:172:TYR:CD2	44:EG:203:MET:HE2	2.55	0.41
45:EH:65:LEU:HD11	45:EH:85:PHE:CE1	2.55	0.41
44:EI:108:TYR:CE2	44:EI:413:MET:HG3	2.53	0.41
44:EI:161:TYR:HB3	44:EI:164:LYS:HE2	2.01	0.41
44:EI:170:THR:C	44:EI:171:ILE:HD12	2.40	0.41
44:EI:181:VAL:O	44:EI:181:VAL:HG22	2.20	0.41
45:EJ:70:PRO:HD3	45:EJ:93:GLY:O	2.20	0.41
45:EJ:113:ILE:HD12	45:EJ:154:LYS:CE	2.44	0.41
45:EJ:272:PRO:HD3	45:EJ:289:LEU:HD22	2.00	0.41
44:EK:387:VAL:HG13	44:EK:388:PHE:N	2.35	0.41
44:EM:88:HIS:HB3	44:EM:91:GLN:HE21	1.84	0.41
44:EM:183:GLU:HG2	44:EM:184:PRO:N	2.33	0.41
45:EN:112:LEU:O	45:EN:115:SER:N	2.52	0.41
45:EN:372:THR:O	45:EN:372:THR:HG23	2.20	0.41
44:FA:325:PRO:HG2	45:FD:222:TYR:HE1	1.84	0.41
45:FB:237:THR:O	45:FB:241:ARG:N	2.53	0.41
45:FB:248:SER:O	45:FB:253:LEU:HD11	2.20	0.41
45:FB:296:ALA:CB	45:FB:305:PRO:HD2	2.50	0.41
44:FC:179:THR:O	45:FD:350:LYS:HG3	2.19	0.41
45:FD:21:TRP:CD1	45:FD:21:TRP:N	2.85	0.41
45:FF:60:VAL:HG21	45:FF:86:ARG:NE	2.26	0.41
45:FF:67:ASP:OD2	45:FF:72:THR:HG21	2.20	0.41
45:FF:269:GLY:CA	45:FF:300:MET:HG3	2.46	0.41
45:FF:383:GLU:HA	45:FF:386:THR:HG22	2.02	0.41
44:FG:34:GLY:O	44:FG:60:LYS:HA	2.20	0.41
44:FG:256:GLN:NE2	44:FG:257:THR:HG23	2.34	0.41
45:FH:202:ILE:HG23	45:FH:300:MET:HB3	2.01	0.41
45:FH:289:LEU:CD1	45:FH:363:MET:HE2	2.40	0.41
45:FH:348:ASN:OD1	45:FH:349:ILE:HD12	2.20	0.41
44:FI:1:MET:HG3	45:FL:94:GLN:HE22	1.84	0.41
44:FI:144:GLY:O	44:FI:147:SER:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:361:THR:O	44:FI:361:THR:HG23	2.20	0.41
45:FJ:4:ILE:HD11	45:FJ:50:TYR:CE1	2.55	0.41
45:FJ:136:THR:HG22	45:FJ:167:PHE:CB	2.36	0.41
45:FJ:256:ASN:HD22	45:FJ:350:LYS:CD	2.24	0.41
44:FK:362:VAL:O	44:FK:362:VAL:HG23	2.19	0.41
44:FK:394:LYS:HZ3	45:FL:346:PRO:HB2	1.83	0.41
45:FL:103:LYS:N	45:FL:401:GLU:OE1	2.53	0.41
45:FL:116:VAL:O	45:FL:119:VAL:HG12	2.20	0.41
45:FL:238:CYS:SG	45:FL:239:CYS:N	2.92	0.41
45:FN:269:GLY:O	45:FN:366:THR:HA	2.20	0.41
45:FN:382:ALA:HA	45:FN:385:PHE:CB	2.44	0.41
45:FN:420:SER:O	45:FN:423:GLN:HG3	2.20	0.41
44:GA:183:GLU:N	44:GA:184:PRO:CD	2.82	0.41
44:GA:185:TYR:CZ	44:GA:398:MET:HE3	2.55	0.41
44:GA:226:ASN:O	44:GA:229:ARG:HB2	2.20	0.41
44:GA:292:THR:HG23	44:GA:293:ASN:N	2.34	0.41
44:GA:337:THR:O	44:GA:337:THR:HG22	2.20	0.41
44:GA:371:VAL:HG13	44:GA:373:ARG:O	2.20	0.41
45:GB:45:GLU:C	45:GB:46:ARG:HD2	2.40	0.41
45:GB:72:THR:HG23	45:GB:73:MET:N	2.35	0.41
45:GB:105:HIS:CD2	45:GB:150:LEU:HB2	2.54	0.41
45:GB:240:LEU:CD1	45:GB:241:ARG:HG3	2.50	0.41
45:GD:20:PHE:HE1	45:GD:233:MET:HB3	1.84	0.41
45:GD:180:VAL:HG23	45:GD:183:TYR:CD2	2.55	0.41
45:GD:405:GLU:O	45:GD:409:THR:HG23	2.20	0.41
44:GE:243:ARG:O	44:GE:244:PHE:CD1	2.73	0.41
45:GF:116:VAL:O	45:GF:120:VAL:HG12	2.20	0.41
45:GF:139:LEU:HD12	45:GF:168:SER:HB3	2.02	0.41
44:GG:208:ALA:HA	44:GG:211:ASP:HB2	2.02	0.41
44:GG:320:ARG:HD3	44:GG:360:PRO:HG3	1.99	0.41
45:GH:211:CYS:HB3	45:GH:220:PRO:CG	2.50	0.41
45:GH:305:PRO:HA	45:GH:373:ALA:CB	2.50	0.41
44:GI:168:GLY:O	44:GI:201:ALA:HA	2.20	0.41
45:GJ:290:THR:OG1	45:GJ:329:GLN:NE2	2.53	0.41
44:GK:346:TRP:HD1	45:GN:391:ARG:NH1	2.18	0.41
45:GL:299:MET:HE2	45:GL:305:PRO:HB3	2.02	0.41
44:GM:117:LEU:HA	44:GM:120:ASP:OD2	2.20	0.41
45:GN:183:TYR:CB	45:GN:398:TYR:HE2	2.33	0.41
44:HA:275:ILE:CG2	44:HA:368:LEU:HD11	2.41	0.41
44:HA:288:VAL:O	44:HA:291:ILE:HG12	2.20	0.41
44:HA:405:VAL:O	44:HA:409:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:8:GLN:HB2	45:HB:136:THR:OG1	2.20	0.41
45:HB:273:LEU:H	45:HB:292:GLN:HE22	1.67	0.41
45:HB:285:THR:O	45:HB:287:PRO:HD2	2.20	0.41
44:HC:28:HIS:CE1	44:HC:49:PHE:HA	2.55	0.41
44:HC:103:PHE:HD2	44:HC:186:ASN:HB2	1.85	0.41
44:HC:158:SER:O	44:HC:162:GLY:HA2	2.20	0.41
44:HC:210:TYR:HD2	45:HD:324:LYS:HG3	1.85	0.41
44:HC:248:LEU:HD12	44:HC:248:LEU:HA	1.89	0.41
45:HD:254:ALA:HA	45:HD:258:ILE:CD1	2.50	0.41
44:HE:7:ILE:HD13	44:HE:66:VAL:CG2	2.50	0.41
44:HE:236:SER:O	44:HE:240:ALA:HB2	2.20	0.41
45:HF:173:PRO:HG2	45:HF:380:ARG:NH1	2.34	0.41
45:HF:290:THR:HG21	45:HF:329:GLN:NE2	2.35	0.41
45:HF:309:ARG:HH12	45:HF:339:SER:C	2.22	0.41
44:HG:233:GLN:O	44:HG:236:SER:N	2.53	0.41
44:HG:397:LEU:O	44:HG:397:LEU:HD12	2.19	0.41
45:HH:204:ASN:O	45:HH:207:LEU:HB2	2.20	0.41
44:HI:258:ASN:OD1	45:HL:179:VAL:CG2	2.68	0.41
45:HJ:8:GLN:NE2	45:HJ:14:ASN:HA	2.35	0.41
45:HJ:186:THR:HG23	45:HJ:187:LEU:N	2.35	0.41
44:HK:63:PRO:HG2	44:HK:86:LEU:HD11	2.01	0.41
44:HK:394:LYS:HZ3	45:HL:346:PRO:HB2	1.84	0.41
45:HL:2:ARG:HB2	45:HL:131:GLN:OE1	2.19	0.41
45:HL:156:ARG:NH1	45:HL:162:ARG:O	2.53	0.41
45:HL:268:ILE:O	45:HL:300:MET:HB2	2.19	0.41
45:HL:391:ARG:HA	45:HL:391:ARG:HD2	1.89	0.41
44:HM:5:ILE:HB	44:HM:135:PHE:CE1	2.56	0.41
44:HM:175:PRO:CB	44:HM:390:ARG:HD3	2.38	0.41
44:HM:405:VAL:HG12	44:HM:409:VAL:HG21	2.02	0.41
45:HN:64:ILE:C	45:HN:65:LEU:HD12	2.40	0.41
45:HN:83:GLN:HA	45:HN:83:GLN:OE1	2.19	0.41
45:HN:289:LEU:HD13	45:HN:365:VAL:HG13	2.02	0.41
45:HN:385:PHE:CE2	45:HN:412:GLU:HB2	2.55	0.41
45:IB:237:THR:O	45:IB:240:LEU:HB3	2.19	0.41
44:IC:184:PRO:CG	44:IC:398:MET:HE2	2.49	0.41
45:ID:49:VAL:HG13	45:ID:50:TYR:N	2.35	0.41
45:ID:323:THR:O	45:ID:324:LYS:C	2.58	0.41
44:IG:26:LEU:HD22	44:IG:363:VAL:HA	2.02	0.41
44:IG:70:LEU:HD12	44:IG:145:THR:OG1	2.21	0.41
44:IG:383:ALA:O	44:IG:386:GLU:HG2	2.20	0.41
45:IH:7:ILE:HD12	45:IH:120:VAL:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:II:8:HIS:ND1	44:II:67:PHE:HE1	2.18	0.41
44:II:231:ILE:O	44:II:235:ILE:HG12	2.20	0.41
44:II:331:SER:HA	44:II:334:THR:OG1	2.20	0.41
44:II:387:VAL:HA	44:II:390:ARG:HH11	1.85	0.41
44:IK:14:ILE:HG12	44:IK:75:ILE:HD13	1.99	0.41
44:IK:200:VAL:HG13	44:IK:268:MET:CE	2.49	0.41
44:IK:243:ARG:O	44:IK:244:PHE:CD1	2.73	0.41
45:IL:44:LEU:HD22	45:IL:44:LEU:N	2.35	0.41
45:IL:46:ARG:O	45:IL:49:VAL:HG22	2.20	0.41
45:IL:66:MET:HE1	45:IL:147:MET:HG2	2.02	0.41
45:IL:86:ARG:HD2	45:IL:86:ARG:C	2.40	0.41
45:IL:386:THR:HG23	45:IL:387:ALA:N	2.35	0.41
44:IM:89:PRO:HD3	45:JN:281:TYR:HD2	1.84	0.41
44:IM:273:ALA:HB1	44:IM:274:PRO:HA	2.01	0.41
45:IN:65:LEU:O	45:IN:66:MET:HE1	2.20	0.41
45:IN:99:ASN:HA	45:IN:142:GLY:CA	2.49	0.41
45:IN:154:LYS:O	45:IN:158:GLU:HG3	2.19	0.41
45:IN:342:VAL:HG13	45:IN:345:ILE:CG2	2.50	0.41
45:JB:22:GLU:HA	45:JB:25:SER:HB2	2.02	0.41
44:JE:208:ALA:HB2	44:JE:304:LYS:HB2	2.01	0.41
45:JF:1:MET:O	45:JF:2:ARG:HG2	2.20	0.41
45:JF:193:VAL:HG12	45:JF:193:VAL:O	2.20	0.41
45:JF:208:TYR:HE1	45:JF:225:LEU:HD11	1.79	0.41
45:JF:325:GLU:HA	45:JF:328:GLU:OE2	2.19	0.41
45:JH:4:ILE:HD11	45:JH:50:TYR:HE1	1.82	0.41
44:JI:372:MET:O	44:JI:373:ARG:HD2	2.19	0.41
45:JJ:163:ILE:HG13	45:JJ:164:MET:H	1.85	0.41
45:JJ:396:HIS:NE2	45:JJ:397:TRP:NE1	2.68	0.41
44:JK:89:PRO:HG3	44:KK:280:LYS:HA	2.00	0.41
44:JM:11:GLN:NE2	46:JM:501:GTP:O1B	2.53	0.41
44:JM:196:GLU:HG2	44:JM:197:HIS:CE1	2.55	0.41
44:KA:195:LEU:HD12	44:KA:266:HIS:HE2	1.85	0.41
44:KA:378:ILE:O	44:KA:378:ILE:CG2	2.66	0.41
45:KB:4:ILE:HA	45:KB:130:LEU:CD1	2.50	0.41
45:KB:268:ILE:HA	45:KB:367:PHE:O	2.20	0.41
45:KB:289:LEU:HD13	45:KB:365:VAL:HG23	2.02	0.41
45:KD:66:MET:HE1	45:KD:116:VAL:HG21	2.01	0.41
45:KD:67:ASP:HB3	45:KD:73:MET:HE2	2.02	0.41
45:KF:16:ILE:HD11	48:KF:502:GDP:N2	2.35	0.41
45:KF:68:LEU:HG	45:KF:143:THR:OG1	2.20	0.41
45:KF:174:LYS:HG2	45:KF:205:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:208:TYR:CD1	45:KF:225:LEU:HD21	2.55	0.41
45:KF:265:PHE:CB	45:KF:374:ILE:HD13	2.49	0.41
44:KG:350:GLY:HA2	45:KJ:179:VAL:CG2	2.49	0.41
45:KH:259:PRO:HB2	45:KH:260:PHE:CD2	2.55	0.41
45:KH:341:PHE:HB3	45:KH:348:ASN:ND2	2.35	0.41
45:KJ:207:LEU:HD13	45:KJ:225:LEU:HG	2.02	0.41
45:KJ:286:VAL:CG2	45:KJ:325:GLU:HG3	2.43	0.41
45:KL:201:VAL:HG13	45:KL:201:VAL:O	2.20	0.41
44:KM:81:GLY:O	44:KM:84:ARG:HG2	2.20	0.41
44:LA:56:THR:CG2	44:LA:60:LYS:O	2.68	0.41
44:LA:141:VAL:HA	44:LA:147:SER:HB3	2.01	0.41
45:LB:60:VAL:HG13	45:LB:60:VAL:O	2.19	0.41
45:LB:145:SER:O	45:LB:149:THR:HG23	2.21	0.41
45:LB:417:ASP:O	45:LB:421:GLU:HB2	2.19	0.41
44:LC:7:ILE:HD13	44:LC:66:VAL:HG12	2.02	0.41
44:LC:33:ASP:OD1	44:LC:34:GLY:N	2.53	0.41
44:LC:121:ARG:O	44:LC:125:LEU:HD23	2.20	0.41
44:LC:288:VAL:HG11	44:LC:327:ASP:CB	2.50	0.41
44:LC:363:VAL:HG23	44:LC:364:PRO:HD2	2.00	0.41
45:LD:113:ILE:O	45:LD:113:ILE:HG22	2.19	0.41
45:LD:251:ARG:NH2	45:LD:254:ALA:HB3	2.33	0.41
45:LD:263:LEU:HD12	45:LD:263:LEU:N	2.35	0.41
45:LD:294:PHE:HE2	45:LD:367:PHE:CE1	2.37	0.41
44:LE:56:THR:HG21	44:LE:60:LYS:CG	2.49	0.41
44:LE:425:LEU:O	44:LE:429:GLU:OE1	2.38	0.41
44:LG:221:ARG:HH12	45:LH:325:GLU:HG3	1.83	0.41
44:LI:103:PHE:O	44:LI:106:GLY:N	2.51	0.41
44:LI:132:LEU:N	44:LI:132:LEU:HD23	2.36	0.41
44:LI:138:PHE:CE2	44:LI:235:ILE:HD11	2.55	0.41
45:LJ:286:VAL:CG2	45:LJ:363:MET:HE3	2.50	0.41
45:LL:253:LEU:HD11	45:LL:314:SER:CB	2.50	0.41
45:LL:294:PHE:HZ	45:LL:349:ILE:HD13	1.84	0.41
45:LL:391:ARG:HA	45:LL:391:ARG:HD2	1.84	0.41
44:LM:86:LEU:HD23	44:LM:87:PHE:CE2	2.55	0.41
44:LM:176:GLN:N	44:LM:176:GLN:OE1	2.53	0.41
45:LN:21:TRP:HH2	45:LN:62:ARG:H	1.68	0.41
45:LN:206:ALA:HA	45:LN:209:ASP:HB3	2.02	0.41
45:LN:286:VAL:CG2	45:LN:287:PRO:HD3	2.50	0.41
45:MB:6:HIS:HE1	45:MB:136:THR:HG23	1.83	0.41
44:MC:285:GLN:O	44:MC:286:LEU:HB2	2.19	0.41
44:MC:332:ILE:HD12	44:MC:351:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MD:178:THR:HB	45:MD:181:GLU:CG	2.36	0.41
45:MD:183:TYR:OH	45:MD:389:PHE:HA	2.20	0.41
44:ME:208:ALA:HA	44:ME:304:LYS:HE2	2.01	0.41
44:ME:250:VAL:CG1	44:ME:254:GLU:HB2	2.50	0.41
44:MG:183:GLU:HG2	44:MG:184:PRO:N	2.35	0.41
44:MG:323:VAL:HG23	44:MG:355:ILE:HD12	2.01	0.41
44:MG:326:LYS:NZ	45:MJ:212:PHE:HZ	2.18	0.41
45:MH:334:GLN:O	45:MH:334:GLN:CG	2.66	0.41
44:MI:272:TYR:CD2	44:MI:275:ILE:HD11	2.54	0.41
45:MJ:180:VAL:HG22	45:MJ:180:VAL:O	2.20	0.41
44:MK:296:PHE:CZ	44:MK:317:MET:HE3	2.55	0.41
45:ML:23:VAL:HG21	45:ML:230:SER:HB3	2.02	0.41
45:ML:30:ILE:CD1	45:ML:51:TYR:HE2	2.27	0.41
45:ML:39:ASP:N	45:ML:43:GLN:OE1	2.51	0.41
45:ML:67:ASP:CG	45:ML:72:THR:HG21	2.40	0.41
44:MM:26:LEU:O	44:MM:26:LEU:HG	2.20	0.41
44:MM:181:VAL:HG23	45:MN:348:ASN:HA	2.01	0.41
45:MN:36:TYR:CE1	45:MN:38:GLY:N	2.86	0.41
44:NA:301:MET:HE3	44:NA:307:PRO:HD3	2.02	0.41
44:NA:340:THR:C	44:NA:341:ILE:HD13	2.40	0.41
44:NA:349:THR:HG21	45:ND:176:SER:OG	2.19	0.41
45:NB:207:LEU:HD23	45:NB:225:LEU:CD2	2.50	0.41
45:ND:116:VAL:CA	45:ND:119:VAL:HG22	2.49	0.41
45:ND:166:THR:CG2	45:ND:199:CYS:HA	2.50	0.41
45:NF:289:LEU:HD11	45:NF:363:MET:HG2	2.01	0.41
44:NG:141:VAL:O	44:NG:141:VAL:HG22	2.20	0.41
44:NG:242:LEU:HD21	44:NG:252:ILE:CD1	2.50	0.41
45:NH:267:MET:CE	45:NH:371:SER:H	2.32	0.41
45:NH:285:THR:O	45:NH:289:LEU:HG	2.20	0.41
45:NH:409:THR:HG23	45:NH:410:GLU:N	2.35	0.41
44:NI:283:HIS:O	44:NI:283:HIS:CG	2.73	0.41
44:NI:298:PRO:HG3	44:NI:308:ARG:HE	1.85	0.41
44:NK:313:MET:HE3	44:NK:380:ASN:C	2.41	0.41
45:NL:325:GLU:O	45:NL:329:GLN:N	2.46	0.41
44:NM:388:PHE:HB2	44:NM:429:GLU:OE2	2.20	0.41
45:NN:112:LEU:HD12	45:NN:112:LEU:O	2.20	0.41
45:NN:290:THR:HG23	45:NN:291:GLN:N	2.35	0.41
44:OA:89:PRO:HG2	44:PA:280:LYS:CD	2.50	0.41
44:OA:175:PRO:HD2	44:OA:304:LYS:HE3	2.01	0.41
44:OA:326:LYS:NZ	45:OD:220:PRO:CB	2.83	0.41
44:OA:326:LYS:HE2	44:OA:326:LYS:HB3	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:20:PHE:O	45:OB:24:ILE:HD12	2.19	0.41
45:OB:65:LEU:HB2	45:OB:73:MET:CE	2.50	0.41
45:OB:267:MET:HE3	45:OB:374:ILE:HG22	2.01	0.41
45:OB:418:LEU:O	45:OB:422:TYR:N	2.36	0.41
44:OC:318:MET:SD	44:OC:354:GLY:HA3	2.59	0.41
45:OD:7:ILE:CD1	45:OD:120:VAL:HG22	2.50	0.41
45:OD:242:PHE:CB	45:OD:356:ILE:HG13	2.49	0.41
45:OD:280:GLN:CB	45:OD:281:TYR:HA	2.24	0.41
44:OE:288:VAL:O	44:OE:291:ILE:HG12	2.20	0.41
44:OG:55:GLU:HG3	44:OG:57:GLY:H	1.85	0.41
44:OG:288:VAL:O	44:OG:292:THR:HG22	2.20	0.41
44:OG:349:THR:CG2	45:OJ:176:SER:HB3	2.45	0.41
45:OJ:116:VAL:O	45:OJ:120:VAL:HG23	2.20	0.41
44:OK:145:THR:HG23	44:OK:146:GLY:N	2.35	0.41
44:OK:156:ARG:HD3	44:OK:156:ARG:HA	1.82	0.41
45:OL:262:ARG:C	45:OL:263:LEU:HD12	2.40	0.41
44:OM:329:ASN:O	44:OM:332:ILE:N	2.51	0.41
44:OM:404:PHE:CZ	45:ON:259:PRO:HB3	2.55	0.41
45:ON:113:ILE:HD12	45:ON:150:LEU:HG	2.02	0.41
45:ON:159:TYR:CB	45:ON:162:ARG:HG2	2.36	0.41
45:ON:282:ARG:NH1	45:ON:284:LEU:HB2	2.35	0.41
44:PA:288:VAL:O	44:PA:292:THR:HG22	2.20	0.41
44:PA:372:MET:HE3	44:PA:373:ARG:HH12	1.83	0.41
45:PB:46:ARG:HH22	45:PB:243:PRO:HD3	1.83	0.41
45:PB:180:VAL:HG21	45:PB:398:TYR:HE2	1.84	0.41
45:PB:212:PHE:CZ	45:PB:220:PRO:HG2	2.55	0.41
45:PB:272:PRO:CD	45:PB:289:LEU:HD21	2.49	0.41
45:PB:290:THR:HG23	45:PB:291:GLN:N	2.35	0.41
44:PC:154:LEU:HB3	44:PC:166:LYS:NZ	2.35	0.41
44:PC:271:SER:CA	44:PC:302:MET:CE	2.98	0.41
44:PC:424:ASP:O	44:PC:427:ALA:HB3	2.20	0.41
44:PE:8:HIS:HA	44:PE:138:PHE:HB2	2.02	0.41
44:PE:313:MET:HE2	44:PE:346:TRP:HH2	1.85	0.41
45:PF:28:HIS:C	45:PF:43:GLN:HE21	2.23	0.41
45:PF:240:LEU:O	45:PF:240:LEU:HD23	2.19	0.41
44:PG:13:GLY:HA2	44:PG:16:VAL:CG2	2.49	0.41
44:PG:296:PHE:CD2	44:PG:335:ILE:CD1	3.03	0.41
44:PG:425:LEU:O	44:PG:429:GLU:HG3	2.19	0.41
45:PH:101:TRP:CZ2	45:PH:105:HIS:CD2	3.08	0.41
45:PH:105:HIS:HD2	45:PH:146:GLY:HA2	1.85	0.41
45:PH:237:THR:OG1	45:PH:240:LEU:HD22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:239:CYS:SG	45:PH:248:SER:O	2.78	0.41
45:PH:391:ARG:HD2	45:PH:391:ARG:HA	1.77	0.41
44:PI:1:MET:CE	45:PL:94:GLN:HB3	2.50	0.41
44:PI:224:TYR:HE2	45:PJ:246:LEU:CD1	2.33	0.41
45:PJ:290:THR:HG23	45:PJ:291:GLN:N	2.34	0.41
45:PL:124:ALA:HB1	45:PL:159:TYR:CE2	2.54	0.41
44:PM:56:THR:HG23	44:PM:58:ALA:H	1.84	0.41
44:PM:276:ILE:HG23	44:PM:281:ALA:HB2	2.02	0.41
44:PM:305:CYS:SG	44:PM:384:ILE:HA	2.60	0.41
45:PN:287:PRO:HA	45:PN:290:THR:CG2	2.47	0.41
45:PN:319:GLY:O	45:PN:321:MET:HE1	2.20	0.41
44:QA:23:LEU:HD23	44:QA:236:SER:HB2	2.02	0.41
44:QA:204:LEU:HD22	44:QA:231:ILE:HD13	2.01	0.41
44:QA:319:TYR:CE1	44:QA:328:VAL:HG22	2.55	0.41
45:QB:68:LEU:O	45:QB:96:GLY:N	2.53	0.41
45:QB:163:ILE:HA	45:QB:197:ASP:OD2	2.20	0.41
45:QB:254:ALA:O	44:QC:407:TRP:HH2	2.03	0.41
45:QB:345:ILE:HG13	44:QC:398:MET:HE3	2.02	0.41
45:QB:375:GLN:HG3	45:QB:379:LYS:CD	2.50	0.41
45:QB:416:ASN:O	45:QB:420:SER:N	2.47	0.41
44:QC:185:TYR:HA	44:QC:395:PHE:HE2	1.85	0.41
45:QD:121:ARG:O	45:QD:124:ALA:HB3	2.20	0.41
45:QD:140:GLY:HA3	45:QD:171:PRO:HG3	2.01	0.41
44:QE:279:GLU:OE2	44:QE:280:LYS:HB2	2.20	0.41
45:QF:377:MET:HA	45:QF:380:ARG:HD2	2.02	0.41
44:QG:30:ILE:HG23	44:QG:35:GLN:N	2.35	0.41
44:QG:268:MET:HB3	44:QG:380:ASN:HB2	2.00	0.41
44:QI:352:LYS:HE3	45:QJ:178:THR:CA	2.36	0.41
46:QI:501:GTP:O2A	46:QI:501:GTP:H8	2.03	0.41
45:QJ:254:ALA:O	44:QK:407:TRP:HZ3	2.03	0.41
44:QK:19:ALA:HA	44:QK:22:GLU:OE1	2.20	0.41
44:QK:240:ALA:O	44:QK:244:PHE:HB2	2.20	0.41
44:QK:240:ALA:HB1	44:QK:356:ASN:HD21	1.85	0.41
44:QK:435:VAL:O	44:QK:435:VAL:HG22	2.20	0.41
45:QL:350:LYS:CB	44:QM:180:ALA:HA	2.50	0.41
45:QL:377:MET:HE3	45:QL:377:MET:HA	2.02	0.41
45:QN:260:PHE:HB2	45:QN:263:LEU:HD13	2.02	0.41
44:RA:92:LEU:N	44:RA:92:LEU:HD12	2.36	0.41
44:RA:102:ASN:HB3	44:RA:105:ARG:HB2	2.01	0.41
44:RA:174:SER:CB	44:RA:207:GLU:HB2	2.50	0.41
44:RA:234:VAL:CA	44:RA:237:SER:HB2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:256:GLN:HB2	44:RA:260:VAL:HG21	2.02	0.41
45:RB:255:VAL:HA	44:RC:407:TRP:CH2	2.53	0.41
44:RC:1:MET:CE	45:RD:94:GLN:HB3	2.50	0.41
44:RC:16:VAL:HG13	44:RC:17:GLY:N	2.35	0.41
44:RC:280:LYS:HE2	44:RC:280:LYS:HB3	1.88	0.41
44:RC:319:TYR:HB2	44:RC:355:ILE:HD13	2.02	0.41
44:RC:346:TRP:CH2	45:RD:394:PHE:HE1	2.38	0.41
45:RD:192:LEU:HD12	45:RD:196:ALA:HB2	1.98	0.41
45:RD:318:ARG:HD3	45:RD:358:PRO:CD	2.49	0.41
45:RD:324:LYS:HD3	44:RE:222:PRO:HG3	2.01	0.41
45:RD:374:ILE:CA	45:RD:377:MET:HE2	2.47	0.41
44:RE:128:ASN:HD21	44:SE:285:GLN:HE21	1.67	0.41
44:RE:191:THR:O	44:RE:195:LEU:N	2.53	0.41
44:RG:268:MET:SD	44:RG:380:ASN:HB2	2.59	0.41
45:RH:348:ASN:HA	44:RI:181:VAL:CG1	2.49	0.41
44:RI:103:PHE:HD1	44:RI:147:SER:OG	2.02	0.41
45:RJ:127:CYS:SG	45:RJ:130:LEU:N	2.93	0.41
44:RK:8:HIS:HB2	44:RK:67:PHE:CD1	2.55	0.41
44:RK:105:ARG:HG2	44:RK:411:GLU:OE1	2.20	0.41
44:RK:187:SER:HA	44:RK:190:SER:OG	2.20	0.41
45:RL:73:MET:C	45:RL:76:VAL:HG12	2.40	0.41
45:RL:239:CYS:SG	45:RL:248:SER:HB3	2.60	0.41
44:RM:9:VAL:HG11	44:RM:153:LEU:CD1	2.49	0.41
44:RM:141:VAL:HG21	44:RM:172:TYR:HE1	1.83	0.41
45:RN:44:LEU:HA	45:RN:47:ILE:HG21	1.99	0.41
45:RN:257:LEU:HD11	45:RN:314:SER:HB2	2.01	0.41
44:SA:176:GLN:HG2	44:SA:177:VAL:HG23	2.01	0.41
45:SB:70:PRO:HG3	45:SB:92:PHE:CD1	2.55	0.41
44:SC:211:ASP:OD2	44:SC:304:LYS:NZ	2.28	0.41
44:SC:254:GLU:O	44:SC:255:PHE:HD1	2.03	0.41
45:SD:272:PRO:HD3	45:SD:364:ALA:HA	2.01	0.41
44:SE:166:LYS:O	44:SE:167:LEU:HD12	2.20	0.41
44:SE:439:THR:HG21	45:SF:390:ARG:CD	2.50	0.41
45:SF:66:MET:SD	45:SF:116:VAL:HG21	2.59	0.41
44:SG:329:ASN:HB3	45:SH:175:VAL:HG11	2.02	0.41
45:SH:44:LEU:CD2	45:SH:47:ILE:HD13	2.50	0.41
44:SI:138:PHE:CE2	44:SI:169:PHE:HD2	2.38	0.41
44:SI:312:TYR:HA	44:SI:381:SER:HB2	2.01	0.41
44:SI:319:TYR:N	44:SI:354:GLY:O	2.50	0.41
45:SJ:8:GLN:OE1	45:SJ:17:GLY:HA3	2.20	0.41
44:SK:67:PHE:O	44:SK:68:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:229:ARG:HH11	44:SK:229:ARG:HG2	1.85	0.41
45:SL:173:PRO:HD3	45:SL:380:ARG:NE	2.35	0.41
44:SM:121:ARG:NE	44:SM:121:ARG:HA	2.36	0.41
44:SM:275:ILE:C	44:SM:276:ILE:HG23	2.40	0.41
45:SN:14:ASN:HD21	45:SN:67:ASP:CG	2.23	0.41
45:SN:137:HIS:CE1	45:SN:148:GLY:HA3	2.54	0.41
44:TA:55:GLU:HG3	44:TA:57:GLY:H	1.85	0.41
44:TA:324:VAL:O	44:TA:327:ASP:HB2	2.20	0.41
45:TB:66:MET:CE	45:TB:116:VAL:HG21	2.50	0.41
45:TD:316:LEU:HB2	45:TD:366:THR:CB	2.43	0.41
45:TD:362:LYS:O	45:TD:363:MET:CE	2.68	0.41
44:TE:34:GLY:HA3	44:TE:60:LYS:HB2	2.02	0.41
45:TF:44:LEU:HD22	45:TF:47:ILE:CD1	2.50	0.41
45:TF:174:LYS:HB2	45:TF:205:GLU:CD	2.41	0.41
45:TF:257:LEU:CA	45:TF:312:THR:HG21	2.49	0.41
44:TG:141:VAL:HG13	44:TG:190:SER:OG	2.20	0.41
44:TG:176:GLN:NE2	44:TG:207:GLU:OE2	2.52	0.41
44:TG:240:ALA:CB	44:TG:320:ARG:HH21	2.32	0.41
45:TH:248:SER:OG	45:TH:252:LYS:HB3	2.20	0.41
45:TJ:199:CYS:HB3	45:TJ:265:PHE:CE2	2.55	0.41
45:TJ:345:ILE:O	45:TJ:345:ILE:HG23	2.19	0.41
44:TK:183:GLU:HG2	44:TK:184:PRO:HD3	2.02	0.41
44:TK:250:VAL:HG12	44:TK:251:ASP:N	2.34	0.41
44:TM:89:PRO:HG3	44:UM:280:LYS:CB	2.50	0.41
44:TM:103:PHE:HB2	44:TM:186:ASN:CB	2.50	0.41
45:TN:203:ASP:OD2	45:TN:301:CYS:HB3	2.20	0.41
45:TN:245:GLN:NE2	45:TN:355:ASP:OD1	2.53	0.41
44:UA:269:LEU:O	44:UA:269:LEU:HG	2.20	0.41
44:UA:302:MET:HE3	44:UA:302:MET:CA	2.45	0.41
45:UB:330:MET:CE	45:UB:349:ILE:HG22	2.44	0.41
44:UC:114:ILE:O	44:UC:114:ILE:CG2	2.67	0.41
44:UC:218:ASP:OD1	44:UC:218:ASP:O	2.38	0.41
45:UD:2:ARG:NH1	45:UD:249:ASP:HB3	2.34	0.41
45:UD:289:LEU:HD23	45:UD:289:LEU:HA	1.90	0.41
44:UE:270:SER:HA	44:UE:377:MET:O	2.20	0.41
44:UE:346:TRP:HZ3	45:UF:394:PHE:HE1	1.67	0.41
44:UG:166:LYS:C	44:UG:167:LEU:HD12	2.40	0.41
45:UH:47:ILE:HD13	45:UH:59:TYR:HE1	1.85	0.41
45:UH:161:ASP:OD1	45:UH:162:ARG:HG2	2.20	0.41
45:UH:256:ASN:HD22	45:UH:350:LYS:CD	2.32	0.41
44:UI:169:PHE:CE1	44:UI:202:VAL:HG21	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:387:VAL:HA	44:UI:390:ARG:CG	2.40	0.41
44:UI:425:LEU:HD23	44:UI:425:LEU:HA	1.84	0.41
45:UJ:42:LEU:CD2	45:UJ:356:ILE:HD11	2.49	0.41
45:UL:49:VAL:HB	45:UL:241:ARG:HE	1.85	0.41
45:UL:116:VAL:HG13	45:UL:117:LEU:N	2.35	0.41
45:UL:130:LEU:HG	45:UL:162:ARG:HD3	2.01	0.41
45:UL:350:LYS:HA	44:UM:179:THR:O	2.20	0.41
44:UM:16:VAL:HG21	44:UM:231:ILE:CG2	2.50	0.41
44:UM:152:LEU:O	44:UM:156:ARG:HB2	2.20	0.41
44:UM:161:TYR:HB2	44:UM:164:LYS:HD3	2.02	0.41
45:UN:178:THR:HG22	45:UN:179:VAL:N	2.35	0.41
45:UN:210:ILE:HG23	45:UN:214:THR:OG1	2.19	0.41
45:VB:36:TYR:CD2	45:VB:44:LEU:HD11	2.55	0.41
45:VB:305:PRO:HB3	45:VB:310:TYR:OH	2.20	0.41
45:VB:337:ASN:O	45:VB:341:PHE:HD2	2.03	0.41
44:VC:72:PRO:HD2	45:VD:1:MET:CE	2.51	0.41
44:VC:124:LYS:O	44:VC:127:ASP:N	2.53	0.41
45:VD:303:ALA:HB1	45:VD:373:ALA:C	2.40	0.41
44:VE:23:LEU:HD23	44:VE:233:GLN:HA	2.00	0.41
45:VF:106:TYR:O	45:VF:110:ALA:HB3	2.20	0.41
45:VF:391:ARG:O	45:VF:392:LYS:HB2	2.20	0.41
44:VG:35:GLN:OE1	44:VG:59:GLY:HA2	2.19	0.41
44:VG:62:VAL:HG13	44:VG:62:VAL:O	2.20	0.41
44:VG:265:ILE:HG23	44:VG:432:TYR:CZ	2.54	0.41
44:VK:124:LYS:HE2	44:VK:124:LYS:HB2	1.83	0.41
44:VK:224:TYR:CE1	45:VL:323:THR:HG21	2.54	0.41
44:VK:229:ARG:HH11	44:VK:229:ARG:HG2	1.85	0.41
44:VK:241:SER:HB2	44:VK:250:VAL:O	2.19	0.41
44:VK:384:ILE:HG13	44:VK:387:VAL:HG22	2.01	0.41
45:VL:211:CYS:HA	45:VL:215:LEU:HB2	2.02	0.41
44:VM:70:LEU:CD1	44:VM:110:ILE:HG13	2.50	0.41
44:VM:219:ILE:HG22	44:VM:222:PRO:HG3	2.01	0.41
44:VM:276:ILE:HD13	44:VM:281:ALA:HA	2.02	0.41
45:VN:105:HIS:CE1	45:VN:150:LEU:HB2	2.54	0.41
45:VN:168:SER:O	45:VN:201:VAL:HA	2.20	0.41
45:VN:245:GLN:H	45:VN:353:ILE:HG22	1.85	0.41
44:WA:288:VAL:HA	44:WA:291:ILE:HD11	2.02	0.41
45:WB:38:GLY:HA3	45:WB:43:GLN:HE22	1.83	0.41
45:WB:216:LYS:HG2	45:WB:275:SER:CB	2.50	0.41
45:WB:324:LYS:HE3	45:WB:325:GLU:HB2	2.02	0.41
44:WC:121:ARG:O	44:WC:125:LEU:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WC:221:ARG:HE	45:WD:322:SER:HB3	1.80	0.41
44:WC:272:TYR:HD2	44:WC:275:ILE:HD11	1.81	0.41
45:WD:248:SER:HB3	45:WD:352:SER:OG	2.19	0.41
44:WE:344:VAL:HG12	44:WE:345:ASP:N	2.35	0.41
45:WF:174:LYS:HG3	45:WF:205:GLU:OE2	2.20	0.41
45:WF:193:VAL:HG21	45:WF:418:LEU:CD2	2.50	0.41
45:WF:245:GLN:C	45:WF:246:LEU:HD12	2.40	0.41
45:WH:185:ALA:O	45:WH:188:SER:OG	2.31	0.41
45:WH:337:ASN:HB3	45:WH:340:TYR:HB2	2.01	0.41
45:WH:415:MET:HA	45:WH:415:MET:CE	2.48	0.41
45:WJ:139:LEU:HA	45:WJ:145:SER:HB3	2.02	0.41
45:WL:165:GLU:OE1	45:WL:250:LEU:HD13	2.20	0.41
45:WL:241:ARG:O	45:WL:242:PHE:HD1	2.02	0.41
44:WM:114:ILE:O	44:WM:114:ILE:HG22	2.20	0.41
45:WN:21:TRP:CZ2	45:WN:61:PRO:HB2	2.55	0.41
5:0D:75:ASP:OD2	45:EB:361:LEU:HD22	2.21	0.41
6:0E:46:ASP:OD2	35:7R:379:LYS:HB2	2.21	0.41
15:0V:82:THR:HG21	45:LN:403:MET:HA	2.02	0.41
8:1G:91:VAL:HA	45:JB:361:LEU:CD2	2.46	0.41
19:1I:23:ILE:HD12	45:ID:48:ASN:ND2	2.35	0.41
25:1P:226:HIS:CE1	44:TG:278:ALA:O	2.73	0.41
2:2A:46:LYS:HG2	35:5R:67:TYR:OH	2.20	0.41
2:2A:95:LEU:HD22	45:MJ:33:THR:HB	2.02	0.41
32:2I:73:LYS:HE2	44:FE:164:LYS:HG2	2.02	0.41
21:2K:270:ILE:HG13	44:GK:282:TYR:CD2	2.55	0.41
28:3C:68:ASN:CB	44:LA:84:ARG:NH2	2.82	0.41
34:4F:9:GLN:HE22	44:HI:280:LYS:HB3	1.85	0.41
34:4F:57:VAL:HG11	45:IJ:245:GLN:NE2	2.36	0.41
34:4F:169:PHE:CE1	44:IM:84:ARG:HD3	2.55	0.41
35:4R:146:LYS:HD3	44:AE:245:ASP:OD2	2.19	0.41
37:5D:21:GLN:HG2	45:KN:189:VAL:HG11	2.02	0.41
37:5D:37:ASP:CB	44:KK:264:ARG:H	2.25	0.41
37:5D:110:ARG:HB2	44:NM:280:LYS:HA	2.02	0.41
38:5E:210:THR:HG22	44:LC:431:ASP:CG	2.39	0.41
38:5F:213:TYR:CD1	38:5F:216:LYS:HG3	2.55	0.41
38:5G:64:ALA:O	38:5G:65:GLU:HB3	2.20	0.41
38:5G:126:LEU:O	44:OI:373:ARG:NH2	2.53	0.41
11:5Q:10:PHE:CG	11:5Q:181:PHE:HE2	2.38	0.41
35:5R:12:LEU:HD21	45:LJ:359:LYS:O	2.20	0.41
35:5R:318:TYR:CD2	35:5R:319:PRO:HD2	2.55	0.41
35:5R:383:GLN:OE1	35:5R:383:GLN:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:547:GLU:CA	35:5R:550:VAL:HG22	2.50	0.41
41:6G:270:THR:HG23	44:VA:298:PRO:CD	2.50	0.41
11:6Q:108:TYR:OH	44:AM:423:GLU:OE1	2.28	0.41
35:7R:116:CYS:HB3	35:7R:131:GLU:HB3	2.02	0.41
35:7R:167:VAL:HG12	35:7R:168:GLY:N	2.35	0.41
44:AA:230:LEU:O	44:AA:234:VAL:HG23	2.20	0.41
44:AC:171:ILE:HG23	44:AC:204:LEU:O	2.20	0.41
44:AC:187:SER:O	44:AC:191:THR:HG22	2.20	0.41
45:AD:318:ARG:NH2	45:AD:356:ILE:C	2.72	0.41
45:AD:414:ASN:O	45:AD:417:ASP:HB3	2.20	0.41
44:AG:284:GLU:HG3	44:AG:286:LEU:HD23	1.99	0.41
45:AH:150:LEU:O	45:AH:150:LEU:HD23	2.20	0.41
45:AH:384:GLN:O	45:AH:388:MET:HG3	2.19	0.41
44:AI:114:ILE:HG22	44:AI:114:ILE:O	2.20	0.41
44:AI:329:ASN:HD21	45:AL:175:VAL:HG12	1.84	0.41
45:AJ:6:HIS:NE2	45:AJ:8:GLN:HB3	2.34	0.41
44:AK:258:ASN:ND2	44:AK:352:LYS:HB2	2.34	0.41
45:AL:45:GLU:OE2	45:AL:243:PRO:HD3	2.20	0.41
45:AL:86:ARG:O	45:AL:86:ARG:HG3	2.19	0.41
45:AL:139:LEU:HG	45:AL:188:SER:OG	2.20	0.41
45:AL:299:MET:HE1	45:AL:367:PHE:CE2	2.54	0.41
44:AM:34:GLY:O	44:AM:60:LYS:HA	2.20	0.41
44:AM:54:SER:HB3	44:AM:64:ARG:CZ	2.50	0.41
44:AM:68:LEU:HD22	44:AM:153:LEU:HD11	2.02	0.41
44:AM:103:PHE:HD1	44:AM:147:SER:OG	2.03	0.41
44:AM:171:ILE:HD13	44:AM:204:LEU:HB3	2.01	0.41
44:AM:287:SER:CA	44:AM:373:ARG:HH21	2.29	0.41
44:BA:203:MET:HG2	44:BA:268:MET:C	2.40	0.41
45:BB:131:GLN:O	45:BB:163:ILE:HG12	2.20	0.41
44:BE:224:TYR:OH	45:BF:323:THR:HG21	2.19	0.41
45:BF:172:SER:OG	45:BF:205:GLU:HB2	2.21	0.41
45:BF:311:LEU:HA	45:BF:342:VAL:HG21	2.02	0.41
44:BG:128:ASN:OD1	44:CG:285:GLN:NE2	2.53	0.41
44:BG:403:ALA:O	44:BG:404:PHE:HB2	2.20	0.41
44:BI:108:TYR:CE2	44:BI:413:MET:CE	3.03	0.41
45:BJ:167:PHE:CZ	45:BJ:233:MET:HE2	2.55	0.41
45:BJ:170:VAL:HG23	45:BJ:171:PRO:HD2	2.01	0.41
45:BJ:377:MET:C	45:BJ:380:ARG:HG2	2.41	0.41
44:BK:5:ILE:HD12	44:BK:135:PHE:HE1	1.85	0.41
44:BK:242:LEU:HD11	44:BK:252:ILE:CG1	2.50	0.41
44:BK:326:LYS:CD	45:BN:212:PHE:HZ	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BM:14:ILE:CD1	44:BM:75:ILE:HD11	2.50	0.41
44:BM:308:ARG:NH2	44:BM:340:THR:O	2.52	0.41
44:BM:421:ALA:O	44:BM:424:ASP:HB2	2.20	0.41
44:CA:101:ASN:HA	44:CA:144:GLY:N	2.35	0.41
45:CB:259:PRO:HA	44:CC:404:PHE:CD1	2.54	0.41
45:CB:344:TRP:CZ3	45:CB:345:ILE:HD11	2.55	0.41
45:CB:381:VAL:HG23	45:CB:382:ALA:N	2.35	0.41
44:CE:115:VAL:HB	44:CE:152:LEU:CD2	2.50	0.41
44:CE:115:VAL:HB	44:CE:152:LEU:HD23	2.02	0.41
45:CF:33:THR:O	45:CF:33:THR:HG22	2.19	0.41
45:CF:116:VAL:HA	45:CF:119:VAL:HG12	2.01	0.41
45:CF:117:LEU:O	45:CF:120:VAL:HG12	2.20	0.41
45:CF:139:LEU:HD23	45:CF:139:LEU:C	2.41	0.41
45:CF:165:GLU:OE2	45:CF:250:LEU:HD22	2.20	0.41
45:CL:2:ARG:C	45:CL:131:GLN:HB2	2.41	0.41
45:CL:149:THR:O	45:CL:152:ILE:HB	2.19	0.41
45:CL:317:PHE:HB2	45:CL:352:SER:O	2.20	0.41
44:CM:256:GLN:NE2	45:CN:397:TRP:CZ2	2.89	0.41
44:CM:261:PRO:HG3	44:CM:313:MET:SD	2.61	0.41
44:CM:312:TYR:CE2	44:CM:379:SER:HB2	2.55	0.41
44:CM:317:MET:HE2	44:CM:375:VAL:HG23	2.01	0.41
45:CN:19:LYS:CB	45:CN:226:ASN:HB3	2.49	0.41
45:CN:51:TYR:N	45:CN:62:ARG:HH21	2.18	0.41
45:CN:167:PHE:HB3	45:CN:202:ILE:HD11	2.02	0.41
45:CN:204:ASN:HA	45:CN:207:LEU:HD23	1.98	0.41
44:DA:74:VAL:O	44:DA:78:VAL:HG23	2.21	0.41
44:DA:75:ILE:HD11	44:DA:92:LEU:CA	2.49	0.41
45:DB:105:HIS:HD2	45:DB:146:GLY:CA	2.32	0.41
44:DC:17:GLY:O	44:DC:21:TRP:CD1	2.73	0.41
44:DC:64:ARG:HH12	44:DC:128:ASN:HB3	1.85	0.41
44:DC:71:GLU:OE1	44:DC:73:THR:N	2.52	0.41
45:DD:274:THR:CG2	45:DD:279:GLN:HA	2.50	0.41
44:DE:402:ARG:C	44:DE:405:VAL:HG23	2.40	0.41
45:DF:49:VAL:HG21	45:DF:241:ARG:CG	2.51	0.41
45:DF:199:CYS:HB3	45:DF:265:PHE:HD1	1.81	0.41
44:DG:439:THR:HG21	45:DH:390:ARG:HD2	2.02	0.41
45:DH:44:LEU:O	45:DH:47:ILE:HG12	2.20	0.41
45:DH:272:PRO:O	45:DH:273:LEU:C	2.58	0.41
44:DI:46:ASP:O	44:DI:47:ASP:HB2	2.18	0.41
44:DI:96:LYS:HD2	44:DI:97:GLU:CB	2.45	0.41
44:DI:136:LEU:CD2	44:DI:167:LEU:HD22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:267:MET:CE	45:DJ:371:SER:HB3	2.50	0.41
44:DK:292:THR:O	44:DK:295:ALA:HB3	2.20	0.41
44:DK:313:MET:SD	44:DK:313:MET:N	2.92	0.41
45:DL:6:HIS:O	45:DL:63:ALA:HA	2.20	0.41
44:DM:419:SER:O	44:DM:423:GLU:HG3	2.20	0.41
45:DN:68:LEU:HD23	45:DN:96:GLY:C	2.40	0.41
45:DN:183:TYR:CZ	45:DN:394:PHE:O	2.73	0.41
45:DN:207:LEU:HD23	45:DN:210:ILE:HD12	2.02	0.41
45:DN:343:GLU:OE2	45:DN:430:ALA:HB3	2.20	0.41
44:EA:121:ARG:HE	44:EA:125:LEU:HG	1.84	0.41
44:EA:419:SER:O	44:EA:423:GLU:HG3	2.20	0.41
45:EB:135:ILE:HG13	45:EB:152:ILE:CD1	2.50	0.41
45:EB:184:ASN:O	45:EB:188:SER:OG	2.17	0.41
44:EC:153:LEU:HA	44:EC:156:ARG:HH12	1.82	0.41
45:ED:7:ILE:HD13	45:ED:120:VAL:CG2	2.33	0.41
45:ED:12:CYS:SG	45:ED:138:SER:N	2.93	0.41
45:ED:172:SER:CB	45:ED:205:GLU:HB2	2.49	0.41
44:EE:276:ILE:HG23	44:EE:281:ALA:CB	2.50	0.41
44:EE:321:GLY:C	44:EE:357:TYR:HA	2.38	0.41
45:EF:52:ASN:CG	45:EF:62:ARG:HE	2.24	0.41
45:EF:326:VAL:CG1	45:EF:353:ILE:HD11	2.22	0.41
44:EG:403:ALA:O	44:EG:404:PHE:HB2	2.20	0.41
44:EI:15:GLN:O	44:EI:18:ASN:HB3	2.21	0.41
44:EI:22:GLU:O	44:EI:25:CYS:N	2.53	0.41
45:EJ:241:ARG:C	45:EJ:242:PHE:HD1	2.23	0.41
45:EJ:255:VAL:HG22	44:EK:407:TRP:CZ3	2.55	0.41
45:EJ:378:PHE:HA	45:EJ:381:VAL:CG2	2.50	0.41
44:EK:84:ARG:HG3	44:EK:85:GLN:HG2	2.02	0.41
44:EK:209:ILE:HG22	44:EK:227:LEU:HD22	2.02	0.41
44:EK:241:SER:HB2	44:EK:250:VAL:H	1.85	0.41
44:EK:304:LYS:NZ	44:EK:390:ARG:NH1	2.68	0.41
44:EM:189:LEU:HD11	44:EM:418:PHE:CZ	2.55	0.41
44:EM:195:LEU:HD13	44:EM:428:LEU:HD22	2.01	0.41
44:FA:208:ALA:O	44:FA:212:ILE:HG12	2.20	0.41
44:FA:209:ILE:CB	44:FA:227:LEU:HD22	2.51	0.41
44:FA:288:VAL:HG11	44:FA:327:ASP:HB3	2.01	0.41
45:FB:30:ILE:O	45:FB:81:PHE:HE2	2.03	0.41
45:FB:50:TYR:OH	45:FB:237:THR:HG21	2.19	0.41
45:FB:103:LYS:HD3	45:FB:401:GLU:OE2	2.20	0.41
45:FB:118:ASP:O	45:FB:121:ARG:HB3	2.19	0.41
45:FB:258:ILE:HD11	45:FB:266:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FC:115:VAL:HG22	44:FC:119:LEU:HD21	2.00	0.41
44:FC:120:ASP:OD1	44:FC:123:ARG:NE	2.53	0.41
44:FC:288:VAL:HA	44:FC:291:ILE:HG12	2.02	0.41
44:FE:215:ARG:NH2	44:FE:299:ALA:O	2.53	0.41
44:FE:346:TRP:HZ3	45:FH:394:PHE:HE1	1.66	0.41
45:FF:309:ARG:CZ	45:FF:342:VAL:HG22	2.49	0.41
44:FG:326:LYS:HE2	45:FJ:219:THR:C	2.39	0.41
45:FH:317:PHE:CD2	45:FH:365:VAL:HG11	2.55	0.41
45:FH:335:ASN:O	45:FH:338:SER:N	2.53	0.41
44:FI:237:SER:HB3	44:FI:376:CYS:HB2	2.02	0.41
45:FJ:258:ILE:HD11	45:FJ:266:PHE:CZ	2.54	0.41
45:FL:67:ASP:HB3	45:FL:73:MET:CE	2.41	0.41
44:FM:105:ARG:HG2	44:FM:109:THR:HG21	2.02	0.41
44:FM:225:THR:O	44:FM:229:ARG:HG2	2.20	0.41
44:FM:296:PHE:HE2	44:FM:335:ILE:HG13	1.86	0.41
44:GA:165:SER:HA	44:GA:199:ASP:OD2	2.20	0.41
44:GC:141:VAL:HG22	44:GC:187:SER:OG	2.19	0.41
44:GE:14:ILE:HD13	44:GE:75:ILE:CD1	2.49	0.41
44:GE:101:ASN:HA	44:GE:144:GLY:CA	2.50	0.41
45:GF:170:VAL:HG23	45:GF:171:PRO:HD2	2.02	0.41
45:GF:183:TYR:CZ	45:GF:388:MET:HB3	2.56	0.41
44:GG:182:VAL:C	44:GG:184:PRO:HD2	2.40	0.41
44:GI:71:GLU:CD	44:GI:73:THR:H	2.18	0.41
44:GI:204:LEU:HD22	44:GI:231:ILE:HD12	2.02	0.41
44:GI:322:ASP:OD1	44:GI:373:ARG:HG3	2.20	0.41
45:GJ:34:GLY:O	45:GJ:58:ARG:HA	2.20	0.41
44:GK:272:TYR:OH	44:GK:374:ALA:HB1	2.20	0.41
45:GL:4:ILE:HD12	45:GL:132:GLY:O	2.20	0.41
45:GL:318:ARG:HH21	45:GL:364:ALA:HB3	1.83	0.41
44:GM:6:SER:HA	44:GM:136:LEU:HB2	2.02	0.41
45:GN:28:HIS:ND1	45:GN:43:GLN:O	2.54	0.41
45:GN:325:GLU:O	45:GN:328:GLU:HG2	2.20	0.41
44:HA:89:PRO:HG2	44:IA:280:LYS:HG2	2.02	0.41
44:HA:437:ILE:O	44:HA:437:ILE:HG13	2.20	0.41
45:HB:209:ASP:O	45:HB:213:ARG:HB2	2.20	0.41
45:HB:217:LEU:CD1	45:HB:220:PRO:HG3	2.49	0.41
45:HD:151:LEU:O	45:HD:151:LEU:HD23	2.19	0.41
45:HD:268:ILE:HG13	45:HD:300:MET:HB2	2.01	0.41
44:HE:21:TRP:HA	44:HE:24:PHE:HB2	2.01	0.41
45:HF:260:PHE:HB3	45:HF:261:PRO:HD2	2.02	0.41
44:HG:235:ILE:O	44:HG:239:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:198:GLU:CG	45:HH:266:PHE:HE2	2.29	0.41
45:HH:301:CYS:HB3	45:HH:377:MET:HE3	1.95	0.41
45:HH:342:VAL:HG12	45:HH:344:TRP:H	1.85	0.41
45:HH:378:PHE:HB3	45:HH:415:MET:HE2	2.02	0.41
44:HI:2:ARG:HD3	44:HI:242:LEU:CD1	2.49	0.41
44:HI:151:SER:HB3	44:HI:193:SER:CB	2.50	0.41
44:HI:194:LEU:O	44:HI:194:LEU:HD23	2.19	0.41
44:HI:288:VAL:HA	44:HI:291:ILE:HG12	2.02	0.41
44:HK:105:ARG:O	44:HK:109:THR:HB	2.20	0.41
44:HK:401:LYS:C	44:HK:402:ARG:HG3	2.41	0.41
45:HL:4:ILE:HD11	45:HL:50:TYR:OH	2.19	0.41
44:HM:313:MET:HE2	44:HM:382:THR:HG22	2.02	0.41
44:HM:385:ALA:HA	44:HM:388:PHE:CD2	2.55	0.41
45:HN:208:TYR:CE1	45:HN:225:LEU:HD21	2.54	0.41
45:HN:309:ARG:HH22	45:HN:342:VAL:CB	2.33	0.41
44:IA:183:GLU:N	44:IA:184:PRO:CD	2.82	0.41
44:IA:218:ASP:HB2	44:IA:279:GLU:OE2	2.19	0.41
44:IA:238:LEU:CD2	44:IA:255:PHE:HE2	2.32	0.41
44:IA:288:VAL:O	44:IA:291:ILE:HG12	2.20	0.41
44:IA:406:HIS:HE2	45:IB:261:PRO:HD3	1.84	0.41
45:IB:34:GLY:O	45:IB:58:ARG:HA	2.20	0.41
45:IB:317:PHE:CD2	45:IB:326:VAL:HG22	2.55	0.41
45:ID:329:GLN:O	45:ID:333:VAL:HG12	2.20	0.41
45:IH:165:GLU:HG2	45:IH:198:GLU:OE1	2.20	0.41
44:II:8:HIS:CD2	44:II:138:PHE:HB2	2.54	0.41
44:II:145:THR:HG23	44:II:146:GLY:N	2.36	0.41
44:II:270:SER:CB	44:II:378:ILE:HD13	2.50	0.41
45:IJ:4:ILE:HD11	45:IJ:134:GLN:N	2.36	0.41
45:IJ:86:ARG:CZ	45:IJ:87:PRO:HD2	2.50	0.41
44:IK:395:PHE:CE2	44:IK:422:ARG:HB2	2.52	0.41
44:IM:288:VAL:N	44:IM:373:ARG:HH21	2.18	0.41
45:IN:42:LEU:HD22	45:IN:356:ILE:HD11	1.99	0.41
45:IN:99:ASN:CA	45:IN:142:GLY:HA3	2.49	0.41
44:JA:23:LEU:HD23	44:JA:23:LEU:C	2.39	0.41
44:JA:278:ALA:CA	44:JA:369:ALA:HB2	2.50	0.41
45:JB:236:VAL:HA	45:JB:316:LEU:HD22	2.02	0.41
44:JC:20:CYS:HA	44:JC:232:ALA:HB1	2.02	0.41
45:JD:186:THR:O	45:JD:189:VAL:HG12	2.20	0.41
44:JE:182:VAL:O	44:JE:182:VAL:HG22	2.20	0.41
45:JF:217:LEU:O	45:JF:220:PRO:CD	2.69	0.41
45:JH:239:CYS:CB	45:JH:248:SER:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JH:353:ILE:HG22	45:JH:354:CYS:N	2.35	0.41
45:JH:415:MET:O	45:JH:419:VAL:HG23	2.20	0.41
44:JI:13:GLY:HA2	44:JI:16:VAL:CG1	2.47	0.41
44:JI:121:ARG:NE	44:JI:121:ARG:HA	2.34	0.41
44:JI:260:VAL:HG23	45:JL:397:TRP:CZ2	2.55	0.41
44:JI:269:LEU:HD12	44:JI:269:LEU:C	2.40	0.41
44:JI:392:ASP:OD1	44:JI:422:ARG:NE	2.54	0.41
45:JJ:7:ILE:O	45:JJ:135:ILE:HA	2.20	0.41
44:JK:31:GLN:HE22	44:JK:37:PRO:CD	2.33	0.41
44:JK:67:PHE:O	44:JK:93:ILE:HB	2.20	0.41
44:JK:119:LEU:HD11	44:JK:156:ARG:CG	2.50	0.41
45:JL:11:GLN:NE2	45:JL:72:THR:HB	2.35	0.41
45:JL:103:LYS:HA	45:JL:401:GLU:OE2	2.20	0.41
45:JL:105:HIS:NE2	45:JL:150:LEU:HB2	2.35	0.41
44:JM:203:MET:CE	44:JM:384:ILE:HD11	2.50	0.41
45:JN:268:ILE:HG22	45:JN:368:VAL:HA	2.03	0.41
44:KA:31:GLN:HG2	44:KA:35:GLN:H	1.84	0.41
44:KA:131:GLY:O	44:KA:132:LEU:C	2.59	0.41
44:KA:183:GLU:HG3	44:KA:184:PRO:HD3	2.02	0.41
44:KA:206:ASN:O	44:KA:209:ILE:N	2.47	0.41
44:KA:428:LEU:HG	44:KA:432:TYR:CZ	2.55	0.41
45:KB:139:LEU:HD23	45:KB:188:SER:CB	2.51	0.41
45:KB:229:VAL:O	45:KB:232:ALA:HB3	2.19	0.41
45:KB:293:MET:CE	45:KB:294:PHE:CE1	3.03	0.41
44:KC:337:THR:O	44:KC:339:ARG:NH1	2.52	0.41
45:KD:67:ASP:CG	45:KD:72:THR:HG21	2.41	0.41
45:KD:399:THR:HA	45:KD:403:MET:O	2.20	0.41
44:KE:220:GLU:C	44:KE:222:PRO:HD3	2.41	0.41
44:KE:292:THR:HG21	44:KE:331:SER:HG	1.81	0.41
44:KE:390:ARG:HA	44:KE:393:HIS:HD2	1.85	0.41
44:KG:1:MET:HE3	45:KJ:94:GLN:HG3	2.02	0.41
44:KG:75:ILE:HG21	44:KG:94:SER:OG	2.20	0.41
44:KG:265:ILE:HD11	44:KG:313:MET:HE1	2.02	0.41
44:KG:340:THR:HG23	44:KG:341:ILE:HD11	1.97	0.41
44:KK:3:GLU:HG2	44:KK:64:ARG:CZ	2.50	0.41
44:KK:66:VAL:HG23	44:KK:91:GLN:O	2.20	0.41
44:KK:172:TYR:CD1	44:KK:173:PRO:HD2	2.55	0.41
44:KK:435:VAL:O	44:KK:435:VAL:HG22	2.20	0.41
45:KL:315:ALA:C	45:KL:316:LEU:HD12	2.41	0.41
44:KM:123:ARG:NH2	44:KM:126:ALA:HB3	2.35	0.41
44:KM:270:SER:CB	44:KM:378:ILE:HG12	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KM:295:ALA:CB	44:KM:377:MET:CE	2.97	0.41
45:KN:165:GLU:OE2	45:KN:250:LEU:HD21	2.20	0.41
44:LA:73:THR:HG21	45:LB:243:PRO:HA	2.00	0.41
44:LA:273:ALA:HB2	44:LA:300:ASN:ND2	2.35	0.41
45:LB:113:ILE:HG21	45:LB:150:LEU:CD2	2.48	0.41
45:LB:228:LEU:HB3	45:LB:300:MET:HE1	2.02	0.41
44:LC:92:LEU:HD12	44:LC:92:LEU:N	2.36	0.41
44:LC:191:THR:HG21	44:LC:425:LEU:HD21	2.01	0.41
44:LE:82:THR:HG23	44:LE:83:TYR:CD1	2.55	0.41
44:LG:222:PRO:HG2	45:LH:324:LYS:HB2	2.01	0.41
45:LH:187:LEU:HD23	45:LH:411:ALA:CB	2.51	0.41
44:LI:72:PRO:HA	44:LI:75:ILE:CG2	2.46	0.41
44:LI:384:ILE:HG23	44:LI:432:TYR:CE2	2.55	0.41
45:LJ:201:VAL:O	45:LJ:202:ILE:HD13	2.20	0.41
45:LJ:242:PHE:CD2	45:LJ:356:ILE:CB	3.00	0.41
44:LK:285:GLN:O	44:LK:286:LEU:C	2.59	0.41
44:LK:377:MET:SD	44:LK:379:SER:HB3	2.60	0.41
45:LL:143:THR:HG23	45:LL:144:GLY:N	2.35	0.41
44:LM:150:GLY:HA2	44:LM:153:LEU:HB2	2.01	0.41
44:LM:256:GLN:H	44:LM:256:GLN:HG3	1.73	0.41
44:LM:290:GLU:HA	44:LM:293:ASN:HD22	1.85	0.41
44:LM:402:ARG:O	44:LM:405:VAL:HG22	2.20	0.41
45:LN:238:CYS:HB3	45:LN:318:ARG:HH22	1.85	0.41
44:MA:295:ALA:CB	44:MA:377:MET:HE2	2.48	0.41
45:MB:102:ALA:HB1	45:MB:401:GLU:HB2	2.01	0.41
45:MB:113:ILE:HG13	45:MB:116:VAL:CG1	2.50	0.41
45:MB:328:GLU:HG3	45:MB:329:GLN:CD	2.41	0.41
44:MC:210:TYR:CB	45:MD:324:LYS:NZ	2.84	0.41
45:MD:139:LEU:HG	45:MD:188:SER:HB2	2.02	0.41
45:MD:294:PHE:HE2	45:MD:333:VAL:HG11	1.85	0.41
45:MD:322:SER:OG	45:MD:325:GLU:HG3	2.20	0.41
44:ME:66:VAL:HG23	44:ME:66:VAL:O	2.20	0.41
44:ME:304:LYS:HD3	44:ME:304:LYS:HA	1.67	0.41
44:ME:308:ARG:NH1	44:ME:308:ARG:CB	2.79	0.41
45:MF:185:ALA:O	45:MF:188:SER:OG	2.21	0.41
44:MG:108:TYR:HA	44:MG:112:LYS:HE3	2.01	0.41
44:MG:407:TRP:CZ3	45:MH:254:ALA:O	2.73	0.41
45:MH:99:ASN:HA	45:MH:142:GLY:N	2.29	0.41
45:MH:213:ARG:HD3	45:MH:297:LYS:NZ	2.31	0.41
45:MH:245:GLN:HB2	45:MH:246:LEU:HD12	2.02	0.41
45:MH:349:ILE:HD12	45:MH:349:ILE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MI:285:GLN:HG3	44:MI:287:SER:H	1.85	0.41
44:MI:306:ASP:OD1	44:MI:308:ARG:HG2	2.20	0.41
44:MK:232:ALA:O	44:MK:235:ILE:HG22	2.20	0.41
45:ML:260:PHE:HB3	45:ML:261:PRO:HD2	2.02	0.41
44:MM:269:LEU:CD2	44:MM:384:ILE:HD13	2.40	0.41
45:MN:73:MET:HE3	45:MN:92:PHE:HB3	2.02	0.41
44:NA:195:LEU:HD21	44:NA:264:ARG:NH2	2.34	0.41
44:NA:227:LEU:O	44:NA:230:LEU:HB2	2.19	0.41
44:NA:246:GLY:HA2	44:NA:357:TYR:HD2	1.85	0.41
44:NA:421:ALA:O	44:NA:425:LEU:HD23	2.20	0.41
45:NB:65:LEU:HD12	45:NB:65:LEU:N	2.35	0.41
44:NC:10:GLY:O	44:NC:14:ILE:HG12	2.21	0.41
44:NC:205:ASP:OD2	44:NC:304:LYS:HG3	2.20	0.41
45:ND:318:ARG:O	45:ND:321:MET:HE1	2.19	0.41
44:NG:172:TYR:HB3	44:NG:173:PRO:HD2	2.02	0.41
44:NG:370:LYS:HD2	44:NG:370:LYS:O	2.20	0.41
45:NH:251:ARG:O	45:NH:254:ALA:HB3	2.19	0.41
44:NI:177:VAL:HG23	44:NI:177:VAL:O	2.20	0.41
44:NI:219:ILE:HG22	44:NI:221:ARG:H	1.85	0.41
44:NI:318:MET:HA	44:NI:318:MET:CE	2.45	0.41
45:NJ:379:LYS:NZ	45:NJ:379:LYS:HB3	2.34	0.41
44:NK:260:VAL:HG22	45:NN:397:TRP:HZ2	1.85	0.41
44:NK:275:ILE:CD1	44:NK:368:LEU:HD13	2.50	0.41
44:NK:407:TRP:CZ3	45:NL:255:VAL:HA	2.55	0.41
45:NL:135:ILE:O	45:NL:166:THR:HA	2.19	0.41
45:NL:193:VAL:HA	45:NL:264:HIS:NE2	2.35	0.41
45:NN:197:ASP:O	45:NN:264:HIS:HB2	2.21	0.41
44:OA:115:VAL:CG2	44:OA:119:LEU:HD23	2.48	0.41
44:OA:183:GLU:CG	44:OA:184:PRO:HD3	2.50	0.41
44:OA:221:ARG:HB3	45:OB:322:SER:OG	2.19	0.41
44:OC:210:TYR:HB3	45:OD:324:LYS:NZ	2.34	0.41
44:OE:115:VAL:HG22	44:OE:119:LEU:CD2	2.49	0.41
45:OF:58:ARG:O	45:OF:59:TYR:CD1	2.73	0.41
45:OF:119:VAL:HA	45:OF:122:LYS:CG	2.38	0.41
44:OG:19:ALA:HB3	44:OG:228:ASN:HB3	2.02	0.41
45:OH:36:TYR:CZ	45:OH:38:GLY:HA3	2.56	0.41
45:OH:67:ASP:OD1	45:OH:143:THR:HG21	2.20	0.41
45:OH:164:MET:H	45:OH:197:ASP:CB	2.26	0.41
44:OI:268:MET:SD	44:OI:380:ASN:HB2	2.60	0.41
44:OI:340:THR:HG23	44:OI:341:ILE:HG13	2.01	0.41
45:OJ:134:GLN:HA	45:OJ:165:GLU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OJ:322:SER:OG	45:OJ:325:GLU:HG2	2.20	0.41
44:OK:123:ARG:O	44:OK:126:ALA:HB3	2.20	0.41
44:OK:338:LYS:HD3	44:OK:340:THR:CG2	2.50	0.41
45:OL:173:PRO:HG3	45:OL:380:ARG:NE	2.35	0.41
45:OL:186:THR:HG21	45:OL:385:PHE:CG	2.55	0.41
44:OM:198:THR:HG21	44:OM:201:ALA:HB2	2.02	0.41
44:OM:242:LEU:HD12	44:OM:242:LEU:N	2.35	0.41
44:OM:270:SER:O	44:OM:302:MET:HE2	2.20	0.41
45:ON:287:PRO:HA	45:ON:329:GLN:OE1	2.20	0.41
45:ON:323:THR:O	45:ON:326:VAL:HG12	2.19	0.41
45:ON:362:LYS:O	45:ON:363:MET:HE2	2.20	0.41
45:PB:20:PHE:CE2	45:PB:233:MET:HG3	2.51	0.41
45:PB:183:TYR:OH	45:PB:388:MET:HB3	2.19	0.41
44:PC:222:PRO:HG2	45:PD:324:LYS:CD	2.41	0.41
44:PC:324:VAL:O	44:PC:327:ASP:HB2	2.20	0.41
45:PD:175:VAL:O	45:PD:175:VAL:CG2	2.68	0.41
45:PD:344:TRP:CE3	45:PD:345:ILE:HB	2.55	0.41
45:PD:410:GLU:HA	45:PD:413:SER:OG	2.20	0.41
44:PE:3:GLU:O	44:PE:132:LEU:HA	2.20	0.41
45:PF:200:MET:SD	45:PF:268:ILE:HD13	2.60	0.41
44:PG:154:LEU:HD22	44:PG:198:THR:OG1	2.20	0.41
44:PG:255:PHE:O	44:PG:259:LEU:HD22	2.20	0.41
44:PG:317:MET:HE2	44:PG:332:ILE:HD11	2.00	0.41
45:PH:3:GLU:HB2	45:PH:49:VAL:O	2.20	0.41
45:PH:166:THR:O	45:PH:199:CYS:HA	2.19	0.41
45:PH:415:MET:O	45:PH:419:VAL:HG23	2.19	0.41
44:PI:181:VAL:CG2	45:PJ:256:ASN:HA	2.51	0.41
44:PI:183:GLU:CG	44:PI:184:PRO:HD3	2.50	0.41
44:PI:265:ILE:HG23	44:PI:432:TYR:OH	2.19	0.41
44:PI:352:LYS:HD3	45:PL:178:THR:HA	2.01	0.41
45:PJ:274:THR:HG21	45:PJ:279:GLN:HG3	2.01	0.41
44:PK:115:VAL:HG11	44:PK:152:LEU:HD21	2.02	0.41
45:PL:66:MET:SD	45:PL:67:ASP:N	2.93	0.41
45:PL:225:LEU:HD12	48:PL:501:GDP:N2	2.35	0.41
44:PM:208:ALA:HB3	44:PM:302:MET:O	2.20	0.41
44:PM:265:ILE:HG23	44:PM:432:TYR:CZ	2.56	0.41
44:PM:433:GLU:O	44:PM:437:ILE:HG23	2.20	0.41
45:PN:266:PHE:HB3	45:PN:369:GLY:O	2.21	0.41
44:QA:201:ALA:HB3	44:QA:267:PHE:HA	2.02	0.41
44:QA:259:LEU:HD21	44:QA:316:SER:HB3	2.01	0.41
44:QC:88:HIS:HB3	44:QC:91:GLN:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:249:ASN:OD1	44:QC:250:VAL:N	2.52	0.41
44:QC:394:LYS:O	44:QC:397:LEU:HB2	2.20	0.41
44:QC:437:ILE:O	44:QC:437:ILE:HG13	2.19	0.41
45:QD:156:ARG:HD3	45:QD:164:MET:CE	2.50	0.41
45:QD:159:TYR:HB3	45:QD:162:ARG:HG2	2.02	0.41
45:QD:167:PHE:HD1	45:QD:200:MET:HB2	1.81	0.41
45:QD:173:PRO:HG2	45:QD:380:ARG:CD	2.38	0.41
45:QF:67:ASP:OD1	45:QF:68:LEU:HD12	2.20	0.41
44:QG:18:ASN:OD1	44:QG:18:ASN:C	2.58	0.41
44:QG:173:PRO:HD2	44:QG:391:LEU:HD11	2.02	0.41
44:QG:195:LEU:HD21	44:QG:264:ARG:HH11	1.85	0.41
45:QH:185:ALA:HA	45:QH:188:SER:OG	2.20	0.41
45:QH:199:CYS:O	45:QH:265:PHE:HA	2.20	0.41
44:QI:3:GLU:HB3	44:QI:51:THR:O	2.21	0.41
45:QJ:258:ILE:CG1	45:QJ:266:PHE:HZ	2.34	0.41
45:QJ:325:GLU:O	45:QJ:328:GLU:HG2	2.21	0.41
45:QL:22:GLU:HG2	45:QL:81:PHE:CE1	2.55	0.41
45:QL:215:LEU:HD12	45:QL:217:LEU:N	2.34	0.41
45:QL:252:LYS:NZ	44:QM:101:ASN:HB2	2.35	0.41
45:QL:309:ARG:HG2	45:QL:340:TYR:C	2.41	0.41
44:QM:67:PHE:C	44:QM:68:LEU:HD12	2.40	0.41
44:QM:340:THR:HG23	44:QM:341:ILE:N	2.36	0.41
45:QN:200:MET:HB2	45:QN:200:MET:HE2	1.90	0.41
44:RA:209:ILE:HD12	44:RA:227:LEU:HD13	2.02	0.41
44:RA:296:PHE:HZ	44:RA:317:MET:HE2	1.85	0.41
44:RA:324:VAL:CG1	44:RA:325:PRO:HD2	2.50	0.41
45:RB:286:VAL:N	45:RB:287:PRO:CD	2.82	0.41
45:RB:286:VAL:HG22	45:RB:321:MET:SD	2.60	0.41
45:RB:360:GLY:O	45:RB:361:LEU:HD23	2.19	0.41
44:RC:349:THR:CG2	45:RD:179:VAL:HA	2.47	0.41
45:RD:21:TRP:CZ3	45:RD:61:PRO:HB3	2.55	0.41
45:RD:169:VAL:O	45:RD:169:VAL:CG1	2.67	0.41
45:RD:286:VAL:N	45:RD:287:PRO:CD	2.82	0.41
44:RE:9:VAL:HB	44:RE:68:LEU:HB2	2.02	0.41
44:RE:260:VAL:O	44:RE:260:VAL:CG1	2.67	0.41
45:RF:46:ARG:HH22	44:RG:76:ASP:HB3	1.84	0.41
44:RG:18:ASN:HD21	44:RG:78:VAL:HG21	1.85	0.41
44:RG:31:GLN:HB3	44:RG:32:PRO:HD2	2.00	0.41
44:RG:258:ASN:ND2	44:RG:352:LYS:HE3	2.35	0.41
44:RG:261:PRO:HG3	44:RG:313:MET:HG2	2.02	0.41
44:RG:419:SER:HA	44:RG:422:ARG:HH12	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:332:ASN:HD21	45:RH:336:LYS:HE2	1.85	0.41
44:RI:76:ASP:O	44:RI:79:ARG:HG2	2.20	0.41
44:RI:87:PHE:HB3	44:RI:92:LEU:HD11	2.02	0.41
44:RI:158:SER:O	44:RI:162:GLY:HA2	2.20	0.41
45:RJ:106:TYR:HD2	45:RJ:403:MET:SD	2.43	0.41
44:RK:238:LEU:HD21	44:RK:255:PHE:HE2	1.84	0.41
44:RK:384:ILE:CD1	44:RK:387:VAL:HG21	2.51	0.41
45:RL:210:ILE:HD13	45:RL:214:THR:HG21	2.01	0.41
45:RL:375:GLN:C	45:RL:379:LYS:HZ3	2.23	0.41
44:RM:174:SER:HB2	44:RM:177:VAL:HB	2.02	0.41
45:RN:21:TRP:CZ3	45:RN:51:TYR:HE1	2.38	0.41
45:RN:304:ASP:HB3	45:RN:307:HIS:ND1	2.35	0.41
44:SA:235:ILE:O	44:SA:238:LEU:HB3	2.19	0.41
45:SB:23:VAL:HG11	45:SB:231:ALA:CA	2.37	0.41
45:SB:293:MET:SD	45:SB:365:VAL:HG11	2.59	0.41
45:SB:321:MET:CE	45:SB:363:MET:SD	3.08	0.41
44:SC:171:ILE:CD1	46:SC:501:GTP:HN22	2.33	0.41
44:SC:405:VAL:HG12	44:SC:409:VAL:HG23	2.01	0.41
45:SD:25:SER:HA	45:SD:51:TYR:OH	2.20	0.41
45:SD:321:MET:HE1	45:SD:363:MET:HE3	2.02	0.41
44:SE:4:VAL:HG12	44:SE:51:THR:HG23	2.00	0.41
44:SE:331:SER:O	44:SE:334:THR:HB	2.19	0.41
44:SE:401:LYS:O	44:SE:402:ARG:HG2	2.20	0.41
45:SF:327:ASP:HB3	44:SG:177:VAL:HG13	2.02	0.41
44:SG:326:LYS:HE2	45:SH:219:THR:CG2	2.44	0.41
45:SH:161:ASP:OD1	45:SH:162:ARG:HG2	2.21	0.41
45:SH:413:SER:O	45:SH:416:ASN:N	2.53	0.41
45:SH:415:MET:O	45:SH:419:VAL:HG23	2.20	0.41
44:SI:60:LYS:HZ1	44:SI:86:LEU:HA	1.85	0.41
44:SI:208:ALA:HA	44:SI:304:LYS:CE	2.26	0.41
45:SJ:342:VAL:HG22	45:SJ:343:GLU:N	2.35	0.41
45:SJ:391:ARG:HD2	45:SJ:391:ARG:HA	1.77	0.41
44:SK:14:ILE:HD12	44:SK:14:ILE:H	1.85	0.41
44:SK:89:PRO:HG2	44:TK:280:LYS:CB	2.50	0.41
45:SL:256:ASN:HD22	44:SM:181:VAL:CG2	2.34	0.41
45:SL:258:ILE:O	45:SL:258:ILE:HG22	2.20	0.41
45:SL:323:THR:HA	45:SL:326:VAL:CG2	2.50	0.41
45:SL:413:SER:O	45:SL:417:ASP:HB2	2.20	0.41
44:SM:183:GLU:N	44:SM:184:PRO:CD	2.83	0.41
44:SM:203:MET:CG	44:SM:384:ILE:HD11	2.40	0.41
44:SM:389:SER:HA	44:SM:429:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SN:229:VAL:C	45:SN:233:MET:HE2	2.40	0.41
44:TA:25:CYS:HG	44:TA:53:PHE:HZ	1.69	0.41
44:TA:175:PRO:O	44:TA:394:LYS:HE3	2.19	0.41
44:TA:272:TYR:HA	44:TA:376:CYS:HA	2.01	0.41
45:TB:68:LEU:HG	45:TB:96:GLY:HA2	2.02	0.41
45:TB:69:GLU:HA	45:TB:70:PRO:HD3	1.89	0.41
45:TB:276:ARG:HH21	45:TB:279:GLN:HB3	1.84	0.41
44:TC:10:GLY:HA2	44:TC:145:THR:CG2	2.34	0.41
44:TC:348:PRO:HB3	45:TD:384:GLN:HG2	2.02	0.41
45:TD:292:GLN:O	45:TD:292:GLN:CG	2.68	0.41
44:TE:93:ILE:HG22	44:TE:114:ILE:HG23	2.02	0.41
44:TE:139:ASN:N	44:TE:139:ASN:OD1	2.53	0.41
44:TE:288:VAL:HB	44:TE:323:VAL:CG2	2.50	0.41
44:TE:292:THR:CG2	44:TE:331:SER:HB2	2.38	0.41
44:TE:344:VAL:HG12	44:TE:347:CYS:HB3	2.01	0.41
45:TF:2:ARG:CZ	45:TF:240:LEU:HD11	2.50	0.41
45:TF:330:MET:HE3	45:TF:330:MET:CA	2.48	0.41
45:TH:178:THR:CG2	45:TH:181:GLU:HG3	2.51	0.41
44:TK:151:SER:HB3	44:TK:193:SER:HB3	2.01	0.41
45:TL:230:SER:O	45:TL:234:SER:N	2.36	0.41
45:TL:322:SER:CB	44:TM:223:THR:HB	2.50	0.41
45:TL:325:GLU:HA	45:TL:328:GLU:OE2	2.19	0.41
44:TM:431:ASP:O	44:TM:435:VAL:HG23	2.19	0.41
45:TN:330:MET:HB3	45:TN:349:ILE:HD13	2.01	0.41
44:UA:91:GLN:O	44:UA:93:ILE:HD12	2.19	0.41
45:UB:103:LYS:HD3	45:UB:401:GLU:OE2	2.21	0.41
45:UB:245:GLN:HB3	44:UC:224:TYR:HD2	1.81	0.41
45:UB:246:LEU:HD11	44:UC:224:TYR:OH	2.20	0.41
44:UC:5:ILE:HG21	44:UC:122:ILE:CD1	2.44	0.41
44:UC:25:CYS:HB3	44:UC:30:ILE:O	2.21	0.41
45:UD:4:ILE:HG22	45:UD:132:GLY:H	1.84	0.41
45:UD:70:PRO:HG3	45:UD:92:PHE:CD1	2.55	0.41
45:UD:149:THR:O	45:UD:152:ILE:HB	2.20	0.41
44:UE:108:TYR:CZ	44:UE:413:MET:HG3	2.55	0.41
45:UF:4:ILE:HA	45:UF:132:GLY:H	1.84	0.41
45:UF:151:LEU:O	45:UF:154:LYS:N	2.48	0.41
45:UF:256:ASN:CB	44:UG:181:VAL:HG22	2.50	0.41
45:UF:296:ALA:HB3	45:UF:306:ARG:NH2	2.36	0.41
44:UG:67:PHE:CE2	44:UG:87:PHE:HE2	2.38	0.41
44:UG:77:GLU:HA	44:UG:80:THR:OG1	2.20	0.41
44:UG:439:THR:HG21	45:UH:390:ARG:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:14:ILE:HG21	44:UI:74:VAL:HG12	2.02	0.41
44:UI:240:ALA:HB1	44:UI:356:ASN:HD22	1.85	0.41
44:UI:387:VAL:CA	44:UI:390:ARG:HG2	2.40	0.41
45:UJ:7:ILE:HG23	45:UJ:66:MET:HE1	2.02	0.41
45:UJ:169:VAL:HA	45:UJ:202:ILE:HB	2.02	0.41
45:UJ:274:THR:O	45:UJ:274:THR:HG23	2.19	0.41
44:UK:38:SER:O	44:UK:38:SER:OG	2.30	0.41
44:UK:271:SER:HB2	44:UK:377:MET:HE3	2.00	0.41
44:UK:275:ILE:O	44:UK:275:ILE:CG1	2.68	0.41
44:UK:387:VAL:HG23	44:UK:388:PHE:N	2.35	0.41
45:UL:7:ILE:CD1	45:UL:151:LEU:HD21	2.48	0.41
45:UL:292:GLN:NE2	45:UL:292:GLN:HA	2.35	0.41
44:UM:68:LEU:HD21	44:UM:118:CYS:CB	2.31	0.41
44:UM:69:ASP:OD1	44:UM:71:GLU:N	2.47	0.41
45:UN:33:THR:O	45:UN:58:ARG:NE	2.53	0.41
45:UN:209:ASP:HA	45:UN:213:ARG:CZ	2.50	0.41
44:VA:22:GLU:HG3	44:VA:83:TYR:CE2	2.55	0.41
45:VB:200:MET:HE3	45:VB:268:ILE:CG1	2.46	0.41
44:VC:88:HIS:HE1	44:VC:90:GLU:HG2	1.80	0.41
44:VC:207:GLU:O	44:VC:210:TYR:HB2	2.20	0.41
45:VD:72:THR:O	45:VD:75:SER:N	2.42	0.41
45:VD:86:ARG:HG3	45:VD:89:ASN:H	1.84	0.41
45:VD:257:LEU:CD2	45:VD:368:VAL:HG12	2.50	0.41
44:VE:256:GLN:NE2	45:VH:397:TRP:CZ2	2.87	0.41
44:VE:404:PHE:HE2	45:VF:342:VAL:O	2.02	0.41
45:VF:20:PHE:O	45:VF:24:ILE:HG12	2.20	0.41
45:VF:171:PRO:HG2	45:VF:185:ALA:HB2	2.02	0.41
44:VG:201:ALA:O	44:VG:268:MET:SD	2.78	0.41
45:VH:50:TYR:HE2	45:VH:237:THR:HG21	1.85	0.41
45:VH:86:ARG:HH12	45:WH:281:TYR:HB2	1.86	0.41
45:VH:359:LYS:HG3	45:VH:359:LYS:O	2.20	0.41
44:VI:141:VAL:HG12	44:VI:171:ILE:O	2.18	0.41
45:VJ:405:GLU:HG2	45:VJ:406:MET:CE	2.50	0.41
44:VK:60:LYS:HZ2	44:WK:283:HIS:HE1	1.68	0.41
44:VK:268:MET:HB2	44:VK:379:SER:C	2.41	0.41
44:VK:402:ARG:HB3	44:VK:405:VAL:HG21	2.01	0.41
45:VL:67:ASP:OD1	45:VL:68:LEU:N	2.53	0.41
45:VL:134:GLN:HA	45:VL:165:GLU:CB	2.50	0.41
45:VL:149:THR:HG23	45:VL:150:LEU:N	2.34	0.41
45:VL:412:GLU:HA	45:VL:415:MET:HE3	2.02	0.41
44:VM:16:VAL:O	44:VM:19:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VM:344:VAL:HG21	44:VM:346:TRP:CE2	2.55	0.41
45:VN:100:ASN:ND2	45:VN:401:GLU:OE1	2.53	0.41
45:VN:211:CYS:HA	45:VN:215:LEU:HD12	2.02	0.41
45:VN:272:PRO:CG	45:VN:284:LEU:HD22	2.49	0.41
44:WA:186:ASN:OD1	44:WA:187:SER:N	2.53	0.41
44:WA:202:VAL:HA	44:WA:268:MET:O	2.20	0.41
44:WA:306:ASP:OD1	44:WA:308:ARG:HB2	2.20	0.41
45:WD:268:ILE:HA	45:WD:367:PHE:O	2.20	0.41
44:WE:184:PRO:HB3	44:WE:394:LYS:HD3	2.01	0.41
44:WE:231:ILE:HG13	44:WE:232:ALA:N	2.34	0.41
45:WF:101:TRP:NE1	45:WF:146:GLY:HA2	2.36	0.41
45:WF:105:HIS:O	45:WF:105:HIS:ND1	2.53	0.41
44:WG:105:ARG:HD2	45:WH:251:ARG:HH21	1.85	0.41
45:WH:395:LEU:O	45:WH:399:THR:HG23	2.20	0.41
45:WJ:286:VAL:N	45:WJ:287:PRO:CD	2.83	0.41
44:WK:5:ILE:HD11	44:WK:132:LEU:HD11	2.02	0.41
44:WK:93:ILE:HD11	44:WK:117:LEU:CD2	2.48	0.41
45:WL:135:ILE:HG13	45:WL:152:ILE:HD13	2.02	0.41
45:WL:154:LYS:HA	45:WL:154:LYS:HD3	1.76	0.41
45:WL:158:GLU:O	45:WL:159:TYR:HD1	2.03	0.41
45:WL:185:ALA:HA	45:WL:188:SER:OG	2.21	0.41
44:WM:112:LYS:O	44:WM:115:VAL:HG12	2.20	0.41
44:WM:275:ILE:HG23	44:WM:368:LEU:CD1	2.50	0.41
45:WN:103:LYS:HG3	45:WN:108:GLU:CG	2.50	0.41
45:WN:222:TYR:O	45:WN:225:LEU:HB2	2.20	0.41
1:6H:342:VAL:HG22	45:FJ:42:LEU:HD21	2.02	0.41
1:6H:382:PHE:CG	44:FK:364:PRO:HG3	2.52	0.41
3:0B:240:TRP:CE3	45:JL:215:LEU:HD11	2.54	0.41
4:0C:81:TYR:HA	45:EH:356:ILE:HD11	1.97	0.41
10:0N:249:LEU:CD1	45:KN:73:MET:HB2	2.31	0.41
18:1F:123:TYR:HB3	44:GI:22:GLU:OE2	2.19	0.41
18:1F:140:LYS:NZ	45:GL:71:GLY:HA2	2.35	0.41
9:1H:297:THR:HG23	44:GC:58:ALA:CA	2.45	0.41
19:1I:22:LEU:HD12	45:ID:45:GLU:HG2	2.01	0.41
20:1J:111:TYR:OH	45:HF:57:GLY:N	2.09	0.41
21:1K:155:GLU:HB2	44:GC:372:MET:CE	2.50	0.41
22:1L:752:LEU:CD2	45:BD:320:ARG:HD2	2.50	0.41
10:1N:179:ILE:HD12	45:KJ:37:HIS:HB3	1.91	0.41
24:1O:261:LEU:HD23	44:TA:58:ALA:HB2	2.02	0.41
26:1R:92:TRP:C	44:AC:370:LYS:HZ3	2.19	0.41
26:1R:92:TRP:CZ2	44:AC:372:MET:HG3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2K:290:GLN:CB	45:GL:362:LYS:HZ2	2.34	0.41
22:2L:766:LYS:HZ2	45:AL:41:ASP:HB3	1.82	0.41
26:2R:88:TYR:CD2	44:MG:35:GLN:HG2	2.54	0.41
26:2R:310:LEU:HD11	45:CH:227:HIS:CE1	2.56	0.41
26:2R:427:LYS:CD	45:FH:280:GLN:HE22	2.33	0.41
26:2R:429:GLU:HB2	45:FH:276:ARG:NH1	2.35	0.41
32:3I:263:PHE:N	45:GJ:337:ASN:HD21	2.10	0.41
26:3R:394:TYR:CE1	45:EL:216:LYS:HE2	2.56	0.41
28:4C:223:GLN:HG2	44:KM:219:ILE:CG2	2.49	0.41
16:4X:121:LYS:HG2	45:LH:362:LYS:NZ	2.35	0.41
37:5D:37:ASP:CA	44:KK:263:PRO:HD2	2.44	0.41
37:5D:48:LEU:HB2	44:KK:434:GLU:OE2	2.20	0.41
37:5D:107:TYR:O	44:NM:277:SER:OG	1.78	0.41
38:5E:203:PHE:HE2	44:LC:419:SER:HB2	1.84	0.41
38:5F:212:THR:O	38:5F:212:THR:HG22	2.18	0.41
38:5G:146:PHE:HB2	45:OL:280:GLN:OE1	2.21	0.41
38:5H:66:THR:HG22	45:NN:35:THR:HB	2.02	0.41
39:5I:106:GLY:O	39:5I:110:LYS:HE2	2.20	0.41
39:5K:41:ILE:O	39:5K:44:ARG:HB3	2.20	0.41
35:5R:500:VAL:HB	45:EJ:32:PRO:CG	2.49	0.41
40:6F:68:TRP:HH2	45:JF:228:LEU:CD2	2.33	0.41
40:6F:69:LEU:HD23	40:6F:70:ASN:CB	2.49	0.41
41:6G:212:ASN:ND2	45:VF:205:GLU:OE2	2.53	0.41
35:7R:318:TYR:CG	35:7R:319:PRO:CD	2.98	0.41
42:8L:305:UNK:HA	42:8L:308:UNK:CB	2.51	0.41
42:8N:149:UNK:CB	45:QH:55:THR:HG21	2.50	0.41
44:AA:317:MET:HG2	44:AA:319:TYR:CE1	2.55	0.41
45:AB:72:THR:HG23	45:AB:73:MET:N	2.35	0.41
45:AB:355:ASP:O	45:AB:357:PRO:HD3	2.21	0.41
44:AC:49:PHE:HE2	44:AC:55:GLU:HG2	1.86	0.41
44:AC:387:VAL:HG22	44:AC:390:ARG:NH1	2.35	0.41
45:AD:49:VAL:HG13	45:AD:50:TYR:N	2.36	0.41
45:AD:313:ALA:HB3	45:AD:349:ILE:CD1	2.51	0.41
45:AD:318:ARG:N	45:AD:321:MET:HE3	2.35	0.41
45:AD:399:THR:HA	45:AD:403:MET:HG3	2.03	0.41
44:AE:22:GLU:HG3	44:AE:83:TYR:HE2	1.85	0.41
45:AF:376:GLU:O	45:AF:380:ARG:HG2	2.20	0.41
45:AH:167:PHE:CD2	45:AH:233:MET:HE2	2.55	0.41
45:AH:207:LEU:CD1	45:AH:225:LEU:HB3	2.24	0.41
44:AI:188:ILE:HG23	44:AI:425:LEU:CD2	2.50	0.41
45:AJ:113:ILE:HD12	45:AJ:150:LEU:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AJ:113:ILE:O	45:AJ:116:VAL:HG12	2.20	0.41
45:AJ:324:LYS:O	45:AJ:328:GLU:HG2	2.20	0.41
44:AK:205:ASP:OD1	44:AK:208:ALA:HB3	2.21	0.41
44:AK:323:VAL:CG1	44:AK:355:ILE:HD12	2.50	0.41
44:AK:326:LYS:HD3	45:AN:212:PHE:CE2	2.54	0.41
45:AL:19:LYS:CB	45:AL:226:ASN:HB3	2.50	0.41
45:AL:391:ARG:HD2	45:AL:391:ARG:HA	1.79	0.41
44:AM:176:GLN:HG3	45:AN:331:LEU:CD2	2.50	0.41
44:AM:182:VAL:C	44:AM:184:PRO:HD2	2.41	0.41
44:AM:422:ARG:HH11	44:AM:425:LEU:HD11	1.85	0.41
45:AN:392:LYS:HD2	45:AN:392:LYS:N	2.35	0.41
44:BA:85:GLN:OE1	44:BA:85:GLN:HA	2.20	0.41
44:BA:169:PHE:HB3	44:BA:204:LEU:CD1	2.50	0.41
44:BA:195:LEU:HA	44:BA:266:HIS:CE1	2.55	0.41
44:BC:396:ASP:OD2	44:BC:422:ARG:NH2	2.50	0.41
45:BD:256:ASN:ND2	45:BD:350:LYS:HE2	2.35	0.41
45:BD:304:ASP:CG	45:BD:306:ARG:HG2	2.39	0.41
44:BE:11:GLN:HB3	46:BE:501:GTP:PA	2.60	0.41
44:BE:107:HIS:NE2	44:BE:152:LEU:HD13	2.35	0.41
45:BF:182:PRO:HG2	45:BF:388:MET:HE1	2.01	0.41
45:BF:248:SER:CB	45:BF:252:LYS:HD2	2.50	0.41
45:BF:314:SER:CB	45:BF:350:LYS:HB3	2.50	0.41
44:BG:325:PRO:HG3	45:BJ:222:TYR:CZ	2.55	0.41
44:BG:337:THR:O	44:BG:339:ARG:NH1	2.53	0.41
45:BH:295:ASP:OD1	45:BH:297:LYS:N	2.47	0.41
45:BJ:294:PHE:CZ	45:BJ:330:MET:HE1	2.55	0.41
44:BK:254:GLU:OE1	45:BN:99:ASN:ND2	2.53	0.41
45:BL:294:PHE:HE2	45:BL:333:VAL:HG21	1.84	0.41
44:BM:13:GLY:CA	44:BM:16:VAL:HG12	2.51	0.41
44:BM:71:GLU:OE1	44:BM:73:THR:N	2.54	0.41
44:BM:188:ILE:O	44:BM:191:THR:HB	2.20	0.41
44:BM:202:VAL:HG12	44:BM:203:MET:N	2.36	0.41
44:BM:288:VAL:HG13	44:BM:289:ALA:N	2.36	0.41
45:BN:8:GLN:OE1	45:BN:14:ASN:HA	2.20	0.41
45:BN:313:ALA:O	45:BN:349:ILE:HA	2.20	0.41
44:CA:270:SER:OG	44:CA:378:ILE:HD13	2.19	0.41
44:CA:427:ALA:HA	44:CA:430:LYS:HZ3	1.86	0.41
45:CB:130:LEU:HD11	45:CB:133:PHE:CE1	2.55	0.41
45:CB:342:VAL:HG13	45:CB:342:VAL:O	2.19	0.41
45:CD:52:ASN:HB3	45:CD:60:VAL:HG13	1.99	0.41
44:CE:71:GLU:HA	44:CE:72:PRO:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CF:186:THR:HG21	45:CF:385:PHE:CD1	2.55	0.41
45:CF:207:LEU:CD2	45:CF:300:MET:HE3	2.50	0.41
44:CG:103:PHE:CD2	44:CG:189:LEU:HD13	2.56	0.41
45:CH:8:GLN:O	45:CH:66:MET:HB3	2.20	0.41
45:CH:106:TYR:CD2	45:CH:403:MET:HE3	2.54	0.41
44:CI:207:GLU:OE1	44:CI:304:LYS:HB2	2.19	0.41
44:CK:208:ALA:HB1	44:CK:302:MET:C	2.40	0.41
45:CL:233:MET:O	45:CL:236:VAL:HG23	2.21	0.41
45:CL:265:PHE:CE1	45:CL:418:LEU:HD21	2.55	0.41
44:CM:151:SER:HB3	44:CM:193:SER:OG	2.20	0.41
44:CM:188:ILE:HG23	44:CM:425:LEU:CD1	2.49	0.41
45:CN:149:THR:O	45:CN:152:ILE:HB	2.19	0.41
44:DA:159:VAL:HG13	44:DA:160:ASP:N	2.35	0.41
44:DC:268:MET:HB2	44:DC:379:SER:C	2.40	0.41
44:DC:268:MET:HB3	44:DC:380:ASN:HA	2.02	0.41
44:DE:35:GLN:OE1	44:DE:59:GLY:HA2	2.20	0.41
44:DE:260:VAL:HG23	44:DE:266:HIS:HA	2.01	0.41
44:DG:108:TYR:HA	44:DG:112:LYS:HE3	2.02	0.41
44:DG:256:GLN:NE2	45:DH:397:TRP:CZ2	2.88	0.41
45:DH:165:GLU:OE2	45:DH:250:LEU:HD13	2.20	0.41
45:DJ:52:ASN:O	45:DJ:59:TYR:HD2	2.03	0.41
45:DJ:105:HIS:NE2	45:DJ:150:LEU:HB2	2.34	0.41
45:DJ:192:LEU:HG	45:DJ:196:ALA:HB2	2.02	0.41
44:DK:215:ARG:HG3	44:DK:215:ARG:O	2.19	0.41
45:DL:294:PHE:HD2	45:DL:333:VAL:HG11	1.78	0.41
44:DM:70:LEU:HD11	44:DM:149:LEU:HD21	2.01	0.41
44:DM:88:HIS:HB3	44:DM:91:GLN:HB2	2.03	0.41
44:DM:182:VAL:HG23	44:DM:185:TYR:HD2	1.85	0.41
45:DN:28:HIS:HB3	45:DN:30:ILE:HD11	2.02	0.41
45:DN:203:ASP:CB	45:DN:301:CYS:HA	2.40	0.41
45:DN:270:PHE:HD2	45:DN:273:LEU:HD21	1.85	0.41
44:EA:3:GLU:OE1	44:EA:51:THR:HA	2.21	0.41
44:EA:260:VAL:O	45:EB:397:TRP:CH2	2.73	0.41
45:EB:80:PRO:O	45:EB:81:PHE:HB2	2.19	0.41
45:EB:83:GLN:OE1	45:EB:83:GLN:HA	2.20	0.41
45:EB:169:VAL:HA	45:EB:202:ILE:C	2.41	0.41
44:EC:108:TYR:HA	44:EC:112:LYS:CD	2.50	0.41
44:EC:390:ARG:HD3	44:EC:394:LYS:HE2	2.03	0.41
45:ED:51:TYR:HA	45:ED:60:VAL:O	2.20	0.41
45:ED:305:PRO:HB2	45:ED:310:TYR:OH	2.20	0.41
44:EE:219:ILE:CG2	44:EE:222:PRO:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:81:PHE:HA	45:EF:84:LEU:HD13	2.01	0.41
45:EF:151:LEU:O	45:EF:155:VAL:HG23	2.19	0.41
45:EF:324:LYS:HD2	44:EG:210:TYR:CG	2.55	0.41
45:EJ:232:ALA:HB1	45:EJ:268:ILE:CD1	2.50	0.41
45:EJ:280:GLN:OE1	45:EJ:281:TYR:CD1	2.73	0.41
45:EJ:309:ARG:N	45:EJ:372:THR:OG1	2.38	0.41
45:EJ:396:HIS:HA	45:EJ:399:THR:OG1	2.20	0.41
44:EK:30:ILE:HA	44:EK:36:MET:HE2	2.02	0.41
44:EK:270:SER:O	44:EK:302:MET:N	2.53	0.41
45:EL:210:ILE:CG2	45:EL:273:LEU:HD13	2.50	0.41
44:EM:13:GLY:HA2	44:EM:16:VAL:HG22	2.02	0.41
44:EM:257:THR:HG22	45:EN:397:TRP:CD2	2.55	0.41
44:EM:275:ILE:HA	44:EM:368:LEU:CD1	2.44	0.41
45:EN:21:TRP:CZ3	45:EN:51:TYR:CE1	3.09	0.41
45:EN:210:ILE:O	45:EN:214:THR:OG1	2.36	0.41
44:FA:1:MET:CE	45:FD:94:GLN:HG3	2.49	0.41
44:FC:108:TYR:CD1	44:FC:413:MET:HE1	2.55	0.41
44:FC:108:TYR:CZ	44:FC:413:MET:HE1	2.55	0.41
45:FD:271:ALA:HB1	45:FD:292:GLN:CD	2.40	0.41
44:FG:217:LEU:HD13	44:FG:367:ASP:CB	2.48	0.41
44:FG:329:ASN:CA	44:FG:332:ILE:HG22	2.48	0.41
44:FG:398:MET:HE2	45:FH:346:PRO:HG2	2.01	0.41
44:FI:221:ARG:HG3	44:FI:221:ARG:O	2.21	0.41
45:FJ:5:VAL:HG22	45:FJ:6:HIS:N	2.36	0.41
44:FK:37:PRO:O	44:FK:38:SER:HB2	2.21	0.41
44:FK:71:GLU:OE1	44:FK:73:THR:HB	2.20	0.41
44:FK:114:ILE:O	44:FK:114:ILE:HG22	2.20	0.41
44:FK:205:ASP:OD1	44:FK:208:ALA:HB3	2.20	0.41
45:FL:242:PHE:CD2	45:FL:356:ILE:HB	2.48	0.41
45:FL:376:GLU:HB3	45:FL:380:ARG:CZ	2.50	0.41
44:FM:238:LEU:O	44:FM:238:LEU:HD23	2.20	0.41
45:FN:183:TYR:CE1	45:FN:388:MET:HE2	2.55	0.41
44:GA:88:HIS:CB	44:GA:91:GLN:HG2	2.38	0.41
44:GA:169:PHE:HD1	44:GA:202:VAL:HG21	1.85	0.41
44:GA:333:ALA:O	44:GA:336:LYS:N	2.53	0.41
44:GA:425:LEU:O	44:GA:428:LEU:N	2.53	0.41
45:GB:9:GLY:H	45:GB:136:THR:HG1	1.68	0.41
45:GB:221:THR:HG22	45:GB:224:ASP:OD2	2.20	0.41
44:GC:27:GLU:OE1	44:GC:361:THR:HB	2.20	0.41
44:GC:88:HIS:HA	44:GC:89:PRO:HD3	1.90	0.41
44:GC:114:ILE:O	44:GC:114:ILE:HG22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:189:VAL:HA	45:GD:192:LEU:HB3	2.01	0.41
45:GD:293:MET:SD	45:GD:367:PHE:CD1	3.14	0.41
45:GF:112:LEU:O	45:GF:112:LEU:HD23	2.21	0.41
45:GF:202:ILE:HG22	45:GF:203:ASP:N	2.35	0.41
45:GF:237:THR:HG22	45:GF:250:LEU:CD2	2.48	0.41
44:GG:141:VAL:HG21	44:GG:172:TYR:HE1	1.85	0.41
44:GG:177:VAL:HG22	45:GH:331:LEU:HD22	2.00	0.41
45:GH:214:THR:HG23	45:GH:215:LEU:N	2.35	0.41
45:GH:291:GLN:O	45:GH:295:ASP:HB2	2.20	0.41
45:GH:317:PHE:CE2	45:GH:326:VAL:HG22	2.54	0.41
45:GJ:165:GLU:OE2	45:GJ:250:LEU:HD13	2.20	0.41
44:GK:19:ALA:HA	44:GK:22:GLU:OE1	2.19	0.41
45:GL:23:VAL:HG13	45:GL:24:ILE:N	2.35	0.41
44:GM:9:VAL:HG13	44:GM:146:GLY:O	2.19	0.41
44:GM:68:LEU:HD21	44:GM:118:CYS:SG	2.61	0.41
45:GN:68:LEU:HD11	45:GN:108:GLU:HG2	2.03	0.41
44:HA:88:HIS:HB3	44:HA:91:GLN:OE1	2.19	0.41
44:HA:271:SER:CA	44:HA:302:MET:HG2	2.42	0.41
44:HA:348:PRO:HD3	45:HD:388:MET:CE	2.50	0.41
45:HB:69:GLU:OE2	45:HB:72:THR:HG22	2.20	0.41
45:HB:105:HIS:NE2	45:HB:150:LEU:HD12	2.35	0.41
44:HC:287:SER:O	44:HC:291:ILE:HG12	2.21	0.41
45:HD:203:ASP:OD1	45:HD:203:ASP:O	2.38	0.41
44:HE:14:ILE:HD11	44:HE:69:ASP:CB	2.35	0.41
44:HE:224:TYR:CE1	45:HF:323:THR:HG21	2.54	0.41
45:HF:9:GLY:HA3	45:HF:66:MET:HE2	2.02	0.41
45:HF:309:ARG:N	45:HF:372:THR:HG22	2.33	0.41
44:HG:402:ARG:HA	44:HG:405:VAL:HG21	2.02	0.41
45:HH:9:GLY:HA2	45:HH:66:MET:SD	2.60	0.41
45:HH:162:ARG:NE	45:HH:163:ILE:H	2.06	0.41
44:HK:195:LEU:HD21	44:HK:264:ARG:NH2	2.35	0.41
44:HK:238:LEU:O	44:HK:238:LEU:HD23	2.19	0.41
45:HL:104:GLY:O	45:HL:147:MET:N	2.53	0.41
44:HM:203:MET:HG3	44:HM:303:ALA:HB1	2.03	0.41
45:HN:173:PRO:CG	45:HN:380:ARG:HD3	2.46	0.41
45:HN:174:LYS:HB2	45:HN:205:GLU:OE1	2.20	0.41
45:HN:290:THR:HG22	45:HN:330:MET:CE	2.50	0.41
45:HN:378:PHE:HB3	45:HN:419:VAL:HG22	2.03	0.41
44:IA:261:PRO:HA	45:ID:394:PHE:CE1	2.55	0.41
44:IA:363:VAL:HG13	44:IA:363:VAL:O	2.20	0.41
44:IA:394:LYS:O	44:IA:398:MET:CE	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IB:86:ARG:CZ	45:IB:87:PRO:HD2	2.50	0.41
45:IB:203:ASP:OD2	45:IB:301:CYS:HA	2.20	0.41
44:IC:183:GLU:OE2	44:IC:184:PRO:HD3	2.20	0.41
44:IC:272:TYR:HE2	44:IC:275:ILE:HD11	1.79	0.41
45:ID:42:LEU:CD2	45:ID:356:ILE:HD11	2.36	0.41
44:IE:224:TYR:HE2	45:IF:246:LEU:CD1	2.30	0.41
45:IF:24:ILE:HA	45:IF:27:GLU:CD	2.40	0.41
45:IF:285:THR:C	45:IF:287:PRO:HD2	2.41	0.41
44:IG:11:GLN:HG3	44:IG:74:VAL:HG11	2.02	0.41
44:IG:114:ILE:O	44:IG:114:ILE:CG2	2.68	0.41
44:IG:137:VAL:O	44:IG:137:VAL:HG13	2.20	0.41
45:IH:204:ASN:CA	45:IH:207:LEU:HD12	2.34	0.41
45:IJ:162:ARG:NE	45:IJ:162:ARG:HA	2.35	0.41
44:IK:2:ARG:CD	44:IK:242:LEU:HD11	2.43	0.41
44:IK:159:VAL:HG13	44:IK:160:ASP:N	2.35	0.41
44:IK:188:ILE:HD12	44:IK:425:LEU:CD1	2.50	0.41
44:IK:224:TYR:HD1	44:IK:227:LEU:HD12	1.84	0.41
44:IK:390:ARG:HG3	44:IK:391:LEU:N	2.35	0.41
45:IL:199:CYS:O	45:IL:265:PHE:HA	2.19	0.41
44:IM:223:THR:HG23	44:IM:224:TYR:N	2.35	0.41
44:IM:315:CYS:HG	44:IM:379:SER:HG	1.64	0.41
45:IN:4:ILE:HD11	45:IN:50:TYR:CZ	2.54	0.41
45:IN:204:ASN:O	45:IN:207:LEU:HB2	2.20	0.41
45:IN:262:ARG:NH2	45:IN:418:LEU:HB2	2.34	0.41
45:JB:64:ILE:HG22	45:JB:66:MET:HE3	2.02	0.41
45:JB:86:ARG:CG	45:KB:281:TYR:HB3	2.37	0.41
45:JB:136:THR:HB	45:JB:167:PHE:HB2	2.03	0.41
44:JC:149:LEU:HD12	44:JC:149:LEU:HA	1.91	0.41
45:JD:286:VAL:N	45:JD:287:PRO:CD	2.82	0.41
44:JE:70:LEU:HD13	44:JE:110:ILE:CD1	2.38	0.41
44:JE:352:LYS:HD2	44:JE:352:LYS:O	2.20	0.41
45:JF:5:VAL:HG12	45:JF:62:ARG:CD	2.50	0.41
45:JF:19:LYS:HG3	45:JF:226:ASN:CG	2.40	0.41
45:JF:391:ARG:HG3	45:JF:391:ARG:NH1	2.35	0.41
44:JG:181:VAL:HG22	44:JG:181:VAL:O	2.21	0.41
44:JI:119:LEU:HD22	44:JI:156:ARG:CD	2.50	0.41
44:JI:120:ASP:HB3	44:JI:124:LYS:NZ	2.35	0.41
44:JI:257:THR:HA	45:JL:397:TRP:CD2	2.53	0.41
44:JI:310:GLY:HA3	44:JI:382:THR:HG23	2.03	0.41
45:JJ:314:SER:OG	45:JJ:368:VAL:HG21	2.19	0.41
45:JL:386:THR:HG23	45:JL:387:ALA:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:156:ARG:O	44:JM:160:ASP:N	2.49	0.41
44:JM:269:LEU:HB2	44:JM:301:MET:CE	2.50	0.41
44:JM:313:MET:HB2	44:JM:380:ASN:O	2.19	0.41
45:JN:404:ASP:HB3	45:JN:406:MET:CE	2.49	0.41
44:KA:5:ILE:HG23	44:KA:125:LEU:HD23	2.02	0.41
44:KA:276:ILE:HD11	44:KA:280:LYS:CE	2.48	0.41
45:KB:267:MET:HB2	45:KB:301:CYS:SG	2.60	0.41
45:KB:407:GLU:O	45:KB:410:GLU:HG2	2.20	0.41
44:KC:21:TRP:O	44:KC:25:CYS:N	2.48	0.41
44:KC:115:VAL:HG23	44:KC:153:LEU:CD2	2.50	0.41
44:KC:223:THR:HG23	44:KC:225:THR:H	1.85	0.41
44:KC:270:SER:CB	44:KC:378:ILE:HD13	2.50	0.41
45:KD:391:ARG:HG3	45:KD:391:ARG:HH11	1.85	0.41
44:KG:62:VAL:HG13	44:KG:62:VAL:O	2.20	0.41
45:KH:330:MET:HG3	45:KH:349:ILE:HG21	2.01	0.41
45:KJ:156:ARG:CZ	45:KJ:156:ARG:HB3	2.50	0.41
45:KJ:258:ILE:HG23	45:KJ:266:PHE:HZ	1.85	0.41
45:KJ:318:ARG:O	45:KJ:363:MET:HB2	2.19	0.41
45:KL:345:ILE:HG22	45:KL:348:ASN:HB3	2.01	0.41
45:KL:382:ALA:O	45:KL:385:PHE:HB3	2.20	0.41
44:KM:75:ILE:HG22	44:KM:79:ARG:NH1	2.35	0.41
45:KN:98:GLY:C	45:KN:99:ASN:OD1	2.59	0.41
45:KN:112:LEU:HD23	45:KN:112:LEU:O	2.20	0.41
45:KN:120:VAL:HG13	45:KN:121:ARG:N	2.36	0.41
45:KN:309:ARG:HB3	45:KN:342:VAL:HG22	2.02	0.41
45:LB:321:MET:SD	45:LB:353:ILE:HG23	2.61	0.41
44:LC:271:SER:HB2	44:LC:301:MET:SD	2.61	0.41
45:LD:310:TYR:CE1	45:LD:371:SER:HB2	2.55	0.41
45:LD:410:GLU:O	45:LD:413:SER:N	2.52	0.41
45:LF:397:TRP:CE3	45:LF:397:TRP:HA	2.54	0.41
44:LG:36:MET:CG	44:LG:37:PRO:HD2	2.50	0.41
45:LH:3:GLU:CG	45:LH:127:CYS:HB3	2.50	0.41
45:LH:380:ARG:O	45:LH:384:GLN:HG3	2.20	0.41
44:LI:139:ASN:N	44:LI:139:ASN:OD1	2.52	0.41
45:LJ:67:ASP:HB3	45:LJ:73:MET:CE	2.50	0.41
45:LJ:86:ARG:HB2	45:LJ:87:PRO:HD2	2.01	0.41
45:LJ:334:GLN:HE22	45:LJ:347:ASN:CA	2.33	0.41
45:LL:100:ASN:HB3	45:LL:103:LYS:CG	2.50	0.41
45:LL:285:THR:C	45:LL:287:PRO:HD2	2.40	0.41
44:LM:150:GLY:O	44:LM:153:LEU:HB2	2.20	0.41
45:LN:208:TYR:OH	45:LN:222:TYR:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:210:ILE:HG23	45:LN:214:THR:OG1	2.20	0.41
44:MA:192:HIS:ND1	44:MA:424:ASP:OD2	2.53	0.41
44:MA:332:ILE:HD12	44:MA:351:PHE:CE1	2.55	0.41
45:MB:170:VAL:HG23	45:MB:203:ASP:OD1	2.21	0.41
44:MC:217:LEU:CD2	44:MC:275:ILE:HG22	2.50	0.41
44:MC:320:ARG:HA	44:MC:356:ASN:O	2.21	0.41
45:MD:60:VAL:HG13	45:MD:60:VAL:O	2.20	0.41
45:MD:262:ARG:C	45:MD:263:LEU:HD12	2.40	0.41
44:ME:248:LEU:HD21	48:MH:501:GDP:H8	1.84	0.41
44:ME:259:LEU:HD21	44:ME:316:SER:HB2	2.00	0.41
44:ME:261:PRO:HB2	44:ME:262:TYR:CD2	2.55	0.41
44:ME:279:GLU:O	44:ME:280:LYS:HG2	2.20	0.41
45:MF:314:SER:CB	45:MF:350:LYS:HB3	2.50	0.41
44:MI:11:GLN:NE2	44:MI:15:GLN:HG3	2.34	0.41
45:MJ:3:GLU:O	45:MJ:131:GLN:HB3	2.21	0.41
45:MJ:271:ALA:HB1	45:MJ:272:PRO:HA	2.01	0.41
45:MJ:330:MET:SD	45:MJ:349:ILE:HG21	2.61	0.41
45:ML:169:VAL:HG23	45:ML:169:VAL:O	2.21	0.41
44:MM:169:PHE:CB	44:MM:204:LEU:HD11	2.44	0.41
44:MM:182:VAL:C	44:MM:184:PRO:HD2	2.41	0.41
44:NA:220:GLU:CD	44:NA:220:GLU:H	2.24	0.41
44:NA:278:ALA:CB	44:NA:369:ALA:HB2	2.49	0.41
45:NB:58:ARG:HG2	45:NB:59:TYR:H	1.84	0.41
45:NB:262:ARG:HD3	45:NB:421:GLU:CD	2.41	0.41
45:NB:330:MET:C	45:NB:333:VAL:HG12	2.41	0.41
45:NB:372:THR:HB	45:NB:426:GLN:OE1	2.20	0.41
44:NC:143:GLY:O	44:NC:147:SER:N	2.44	0.41
44:NC:298:PRO:CA	44:NC:301:MET:HE1	2.44	0.41
44:NE:19:ALA:O	44:NE:22:GLU:HG2	2.20	0.41
44:NE:277:SER:OG	44:NE:278:ALA:N	2.53	0.41
45:NF:198:GLU:HG2	45:NF:266:PHE:CE2	2.55	0.41
45:NF:207:LEU:HB3	45:NF:225:LEU:HD22	2.01	0.41
45:NF:361:LEU:HD23	45:NF:361:LEU:HA	1.87	0.41
44:NG:6:SER:O	44:NG:7:ILE:HD13	2.21	0.41
44:NG:137:VAL:O	44:NG:137:VAL:HG13	2.21	0.41
44:NG:138:PHE:HE1	44:NG:169:PHE:HD2	1.69	0.41
45:NH:4:ILE:HD11	45:NH:131:GLN:OE1	2.20	0.41
45:NH:201:VAL:HG23	45:NH:265:PHE:HD2	1.85	0.41
45:NH:286:VAL:HG11	45:NH:325:GLU:CG	2.51	0.41
44:NI:268:MET:SD	44:NI:378:ILE:HG22	2.60	0.41
45:NJ:9:GLY:N	45:NJ:66:MET:HE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NJ:293:MET:HE2	45:NJ:367:PHE:CB	2.50	0.41
45:NJ:309:ARG:HB3	45:NJ:342:VAL:CG2	2.50	0.41
44:NK:71:GLU:CD	44:NK:98:ASP:HB2	2.40	0.41
44:NK:183:GLU:N	44:NK:184:PRO:CD	2.83	0.41
44:NK:283:HIS:O	44:NK:284:GLU:HG2	2.21	0.41
44:NK:398:MET:CE	45:NL:345:ILE:HD12	2.50	0.41
45:NL:201:VAL:O	45:NL:202:ILE:HD13	2.20	0.41
45:NL:323:THR:O	45:NL:326:VAL:HB	2.20	0.41
44:NM:99:ALA:CB	44:NM:145:THR:HB	2.39	0.41
44:NM:103:PHE:H	44:NM:408:TYR:HE2	1.64	0.41
44:NM:231:ILE:O	44:NM:234:VAL:HB	2.20	0.41
45:NN:257:LEU:HD11	45:NN:314:SER:HB2	2.02	0.41
45:OB:154:LYS:O	45:OB:157:GLU:HB2	2.20	0.41
45:OB:161:ASP:C	45:OB:162:ARG:HD2	2.41	0.41
45:OD:138:SER:OG	48:OD:502:GDP:H4'	2.20	0.41
45:OD:213:ARG:HG2	45:OD:213:ARG:HH11	1.86	0.41
45:OD:217:LEU:HG	45:OD:220:PRO:HD3	2.03	0.41
45:OD:274:THR:CG2	45:OD:278:SER:O	2.68	0.41
44:OE:339:ARG:HA	44:OE:339:ARG:HD3	1.84	0.41
44:OG:182:VAL:HG13	44:OG:186:ASN:OD1	2.20	0.41
44:OG:257:THR:HA	45:OJ:397:TRP:CH2	2.56	0.41
44:OG:336:LYS:HE2	44:OG:343:PHE:CD2	2.55	0.41
45:OH:3:GLU:HB2	45:OH:49:VAL:HA	2.03	0.41
45:OH:3:GLU:HG2	45:OH:4:ILE:N	2.35	0.41
45:OH:321:MET:HE1	45:OH:326:VAL:HG22	2.01	0.41
44:OI:108:TYR:HA	44:OI:112:LYS:HE3	2.02	0.41
44:OI:126:ALA:HB1	44:OI:132:LEU:CD2	2.46	0.41
44:OI:246:GLY:N	44:OI:249:ASN:OD1	2.53	0.41
45:OJ:108:GLU:HG2	45:OJ:109:GLY:N	2.35	0.41
45:OJ:267:MET:HE2	45:OJ:299:MET:HB3	2.01	0.41
45:OJ:403:MET:CE	45:OJ:407:GLU:OE2	2.68	0.41
44:OM:234:VAL:HG13	44:OM:235:ILE:N	2.35	0.41
44:OM:313:MET:SD	44:OM:435:VAL:HG11	2.60	0.41
44:OM:393:HIS:O	44:OM:396:ASP:OD1	2.38	0.41
45:ON:87:PRO:HD2	45:PN:281:TYR:CE1	2.56	0.41
45:ON:202:ILE:HG22	45:ON:207:LEU:HD11	2.02	0.41
44:PA:363:VAL:CG2	44:PA:364:PRO:HD2	2.50	0.41
44:PC:185:TYR:HE2	44:PC:404:PHE:O	2.02	0.41
44:PC:255:PHE:CD1	44:PC:259:LEU:HD12	2.52	0.41
44:PC:291:ILE:HG22	44:PC:375:VAL:HG12	2.02	0.41
44:PC:435:VAL:CB	45:PF:391:ARG:HH22	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PD:149:THR:HG23	45:PD:150:LEU:N	2.36	0.41
45:PD:153:SER:OG	45:PD:191:GLN:NE2	2.44	0.41
45:PD:180:VAL:HG22	45:PD:183:TYR:HB2	2.01	0.41
45:PD:253:LEU:C	45:PD:257:LEU:HD13	2.40	0.41
45:PD:286:VAL:HB	45:PD:287:PRO:HD3	2.02	0.41
45:PD:318:ARG:HD3	45:PD:358:PRO:CD	2.44	0.41
44:PE:328:VAL:O	44:PE:331:SER:HB2	2.21	0.41
45:PF:25:SER:OG	45:PF:26:ASP:N	2.53	0.41
45:PF:87:PRO:O	45:PF:90:PHE:HB2	2.20	0.41
45:PF:276:ARG:HA	45:PF:276:ARG:HD3	1.82	0.41
44:PG:258:ASN:ND2	44:PG:352:LYS:HG2	2.35	0.41
45:PH:286:VAL:CG1	45:PH:287:PRO:CD	2.95	0.41
44:PI:183:GLU:N	44:PI:184:PRO:CD	2.82	0.41
44:PI:236:SER:O	44:PI:240:ALA:HB2	2.20	0.41
44:PI:261:PRO:CB	45:PL:394:PHE:HD1	2.33	0.41
44:PI:318:MET:O	44:PI:375:VAL:HA	2.20	0.41
44:PI:419:SER:O	44:PI:422:ARG:N	2.53	0.41
45:PJ:3:GLU:O	45:PJ:3:GLU:HG2	2.20	0.41
45:PJ:65:LEU:CB	45:PJ:90:PHE:HE1	2.32	0.41
45:PJ:248:SER:HA	45:PJ:252:LYS:CD	2.44	0.41
45:PL:146:GLY:O	45:PL:150:LEU:HD23	2.20	0.41
44:PM:268:MET:CE	44:PM:379:SER:N	2.83	0.41
45:PN:151:LEU:O	45:PN:155:VAL:HG23	2.20	0.41
45:PN:321:MET:N	45:PN:321:MET:SD	2.94	0.41
45:PN:415:MET:O	45:PN:419:VAL:HG23	2.20	0.41
44:QA:182:VAL:HG22	44:QA:182:VAL:O	2.21	0.41
44:QA:344:VAL:HG22	44:QA:345:ASP:N	2.36	0.41
45:QB:19:LYS:HG2	45:QB:226:ASN:O	2.20	0.41
45:QB:177:ASP:OD1	45:QB:177:ASP:N	2.48	0.41
44:QC:296:PHE:HD2	44:QC:341:ILE:CD1	2.30	0.41
44:QC:402:ARG:O	44:QC:405:VAL:HG23	2.20	0.41
45:QD:308:GLY:CA	45:QD:372:THR:HG23	2.49	0.41
44:QE:19:ALA:HB3	44:QE:228:ASN:HB3	2.02	0.41
44:QE:119:LEU:HD21	44:QE:156:ARG:CD	2.40	0.41
44:QE:387:VAL:HG12	44:QE:390:ARG:HH12	1.85	0.41
45:QF:177:ASP:N	45:QF:181:GLU:OE2	2.52	0.41
44:QG:3:GLU:HB3	44:QG:64:ARG:NH2	2.35	0.41
45:QH:215:LEU:O	45:QH:275:SER:HA	2.20	0.41
44:QI:346:TRP:HD1	45:QJ:391:ARG:NH1	2.18	0.41
45:QJ:333:VAL:O	45:QJ:337:ASN:N	2.52	0.41
44:QK:261:PRO:HG3	45:QL:394:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QL:72:THR:HG23	45:QL:73:MET:CE	2.49	0.41
45:QL:290:THR:CA	45:QL:293:MET:HG3	2.47	0.41
44:QM:6:SER:O	44:QM:65:ALA:HA	2.20	0.41
44:QM:210:TYR:HD1	44:QM:227:LEU:HD21	1.81	0.41
45:QN:107:THR:O	45:QN:111:GLU:HG3	2.19	0.41
45:RD:81:PHE:O	45:RD:84:LEU:HD13	2.21	0.41
45:RD:86:ARG:HH21	45:RD:87:PRO:CD	2.32	0.41
45:RD:116:VAL:O	45:RD:120:VAL:HG23	2.21	0.41
45:RD:269:GLY:HA3	45:RD:299:MET:CE	2.50	0.41
44:RE:8:HIS:O	44:RE:67:PHE:HA	2.20	0.41
44:RE:71:GLU:CD	44:RE:73:THR:H	2.23	0.41
44:RE:152:LEU:O	44:RE:155:GLU:HB2	2.21	0.41
44:RE:274:PRO:HD2	44:RE:374:ALA:HA	1.98	0.41
45:RF:192:LEU:HD12	45:RF:196:ALA:HB2	2.02	0.41
44:RG:122:ILE:CD1	44:RG:157:LEU:HD21	2.49	0.41
44:RG:291:ILE:HG13	44:RG:292:THR:N	2.35	0.41
44:RG:319:TYR:HE2	44:RG:328:VAL:CG1	2.33	0.41
45:RH:255:VAL:HG21	44:RI:100:ALA:O	2.20	0.41
45:RH:324:LYS:HD2	44:RI:210:TYR:CG	2.55	0.41
44:RI:250:VAL:HG22	44:RI:255:PHE:CE1	2.55	0.41
45:RJ:256:ASN:HD22	45:RJ:350:LYS:CD	2.33	0.41
45:RL:310:TYR:HD1	45:RL:371:SER:HB2	1.85	0.41
45:RL:345:ILE:HG12	45:RL:348:ASN:HB3	2.03	0.41
44:RM:240:ALA:HB1	44:RM:356:ASN:ND2	2.35	0.41
44:RM:392:ASP:HA	44:RM:395:PHE:HB3	2.02	0.41
45:RN:163:ILE:CD1	45:RN:250:LEU:HB2	2.50	0.41
44:SA:9:VAL:HG13	44:SA:139:ASN:ND2	2.35	0.41
44:SA:21:TRP:CZ2	44:SA:65:ALA:HB2	2.50	0.41
44:SA:171:ILE:HG21	46:SA:501:GTP:HN22	1.84	0.41
45:SB:58:ARG:NH1	45:TB:281:TYR:HE2	2.19	0.41
45:SB:275:SER:OG	45:SB:278:SER:HB3	2.20	0.41
45:SB:285:THR:OG1	45:SB:288:GLU:N	2.44	0.41
44:SC:408:TYR:HB3	44:SC:413:MET:CE	2.51	0.41
45:SD:92:PHE:O	45:SD:112:LEU:HD11	2.19	0.41
45:SD:210:ILE:O	45:SD:214:THR:OG1	2.37	0.41
45:SD:317:PHE:HD1	45:SD:365:VAL:CG2	2.33	0.41
45:SD:324:LYS:HZ1	44:SE:214:ARG:HH21	1.68	0.41
44:SE:222:PRO:HB2	44:SE:226:ASN:HB2	2.00	0.41
45:SF:29:GLY:N	45:SF:43:GLN:OE1	2.53	0.41
45:SF:173:PRO:HD3	45:SF:380:ARG:HH11	1.85	0.41
45:SJ:4:ILE:HD11	45:SJ:50:TYR:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SJ:130:LEU:HB3	45:SJ:162:ARG:HD2	2.02	0.41
45:SJ:168:SER:O	45:SJ:201:VAL:HA	2.20	0.41
45:SL:145:SER:OG	45:SL:184:ASN:HB2	2.20	0.41
45:SL:231:ALA:HB1	45:SL:270:PHE:CD1	2.55	0.41
45:SL:256:ASN:HD22	44:SM:181:VAL:HG22	1.84	0.41
45:SL:259:PRO:HA	44:SM:404:PHE:CD1	2.54	0.41
44:SM:66:VAL:HG22	44:SM:68:LEU:HD12	2.03	0.41
45:SN:169:VAL:HA	45:SN:202:ILE:O	2.20	0.41
45:SN:229:VAL:O	45:SN:233:MET:HG3	2.20	0.41
45:SN:334:GLN:HB2	45:SN:349:ILE:HD11	2.02	0.41
44:TA:23:LEU:O	44:TA:27:GLU:OE1	2.38	0.41
45:TB:6:HIS:HB3	45:TB:21:TRP:HZ2	1.85	0.41
45:TB:22:GLU:HG2	45:TB:81:PHE:CG	2.55	0.41
45:TB:244:GLY:HA2	45:TB:355:ASP:OD2	2.21	0.41
44:TC:170:THR:O	44:TC:204:LEU:N	2.53	0.41
45:TD:7:ILE:O	45:TD:135:ILE:HG23	2.20	0.41
45:TD:133:PHE:N	45:TD:163:ILE:O	2.39	0.41
45:TD:228:LEU:HB3	45:TD:300:MET:HE1	2.01	0.41
45:TD:372:THR:HA	45:TD:422:TYR:HE2	1.85	0.41
45:TD:386:THR:HG23	45:TD:387:ALA:N	2.36	0.41
44:TE:80:THR:O	44:TE:84:ARG:HD2	2.21	0.41
45:TF:229:VAL:HG12	45:TF:233:MET:CE	2.48	0.41
45:TF:252:LYS:HG3	44:TG:101:ASN:OD1	2.19	0.41
44:TG:100:ALA:O	44:TG:101:ASN:HB2	2.20	0.41
45:TH:44:LEU:HD22	45:TH:47:ILE:CG2	2.49	0.41
45:TH:72:THR:HG23	45:TH:73:MET:N	2.35	0.41
45:TH:105:HIS:CD2	45:TH:150:LEU:HD12	2.56	0.41
45:TH:144:GLY:O	45:TH:148:GLY:HA3	2.20	0.41
45:TH:274:THR:O	45:TH:274:THR:HG23	2.20	0.41
44:TI:235:ILE:O	44:TI:239:THR:HG23	2.20	0.41
44:TI:268:MET:CB	44:TI:380:ASN:HA	2.50	0.41
45:TJ:113:ILE:O	45:TJ:117:LEU:HB2	2.20	0.41
45:TJ:141:GLY:O	45:TJ:145:SER:HB3	2.21	0.41
45:TJ:263:LEU:HD23	45:TJ:422:TYR:CE1	2.55	0.41
45:TJ:380:ARG:HE	45:TJ:380:ARG:HB3	1.71	0.41
45:TL:239:CYS:SG	45:TL:248:SER:HB3	2.61	0.41
44:TM:25:CYS:SG	44:TM:86:LEU:HD21	2.60	0.41
44:TM:183:GLU:HG2	44:TM:184:PRO:HD3	2.02	0.41
45:TN:375:GLN:O	45:TN:379:LYS:HG3	2.19	0.41
45:TN:391:ARG:O	45:TN:392:LYS:HB2	2.20	0.41
44:UC:348:PRO:N	45:UD:388:MET:HE1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UD:215:LEU:HD22	45:UD:217:LEU:CD2	2.49	0.41
45:UD:315:ALA:C	45:UD:316:LEU:HD12	2.40	0.41
44:UE:69:ASP:OD1	44:UE:69:ASP:C	2.59	0.41
44:UE:151:SER:O	44:UE:155:GLU:N	2.37	0.41
45:UF:150:LEU:O	45:UF:150:LEU:HD23	2.20	0.41
45:UF:242:PHE:CG	45:UF:356:ILE:HG13	2.56	0.41
44:UG:276:ILE:HD11	44:UG:280:LYS:O	2.19	0.41
45:UH:40:SER:OG	45:UH:43:GLN:HG3	2.19	0.41
45:UH:58:ARG:NH2	45:VH:281:TYR:HE1	2.19	0.41
45:UH:81:PHE:O	45:UH:84:LEU:HD13	2.20	0.41
44:UI:200:VAL:HG13	44:UI:268:MET:CE	2.50	0.41
45:UJ:11:GLN:CA	45:UJ:14:ASN:HD22	2.33	0.41
45:UJ:46:ARG:HG3	45:UJ:241:ARG:O	2.21	0.41
44:UK:268:MET:CB	44:UK:380:ASN:OD1	2.68	0.41
45:UL:68:LEU:HD12	45:UL:68:LEU:HA	1.88	0.41
44:UM:344:VAL:HG11	44:UM:346:TRP:CZ2	2.55	0.41
44:UM:420:GLU:HA	44:UM:423:GLU:CB	2.45	0.41
45:UN:139:LEU:HD23	45:UN:188:SER:OG	2.19	0.41
44:VA:7:ILE:CD1	44:VA:66:VAL:HG11	2.49	0.41
44:VA:121:ARG:NH2	44:VA:124:LYS:HE3	2.35	0.41
44:VA:312:TYR:C	44:VA:313:MET:HE1	2.40	0.41
44:VA:432:TYR:HA	44:VA:435:VAL:HB	2.02	0.41
45:VB:276:ARG:HA	45:VB:276:ARG:HD3	1.92	0.41
44:VC:8:HIS:ND1	44:VC:67:PHE:CE1	2.88	0.41
44:VC:141:VAL:HA	44:VC:147:SER:CB	2.46	0.41
44:VC:378:ILE:HG23	44:VC:378:ILE:O	2.19	0.41
45:VD:183:TYR:OH	45:VD:394:PHE:HB2	2.19	0.41
45:VD:228:LEU:HD23	45:VD:228:LEU:C	2.41	0.41
45:VD:290:THR:HA	45:VD:293:MET:HE2	2.02	0.41
45:VF:103:LYS:O	45:VF:108:GLU:HB2	2.19	0.41
45:VF:296:ALA:HB1	45:VF:305:PRO:HD2	2.01	0.41
44:VG:183:GLU:O	44:VG:186:ASN:OD1	2.38	0.41
44:VG:328:VAL:CG1	44:VG:353:VAL:HG21	2.42	0.41
44:VG:394:LYS:CE	45:VH:346:PRO:HG2	2.50	0.41
44:VI:326:LYS:CG	45:VL:220:PRO:HD2	2.47	0.41
44:VK:70:LEU:HD11	44:VK:149:LEU:CD2	2.46	0.41
44:VK:103:PHE:CD2	44:VK:413:MET:HE3	2.55	0.41
44:VK:108:TYR:CD2	44:VK:413:MET:HG2	2.55	0.41
44:VK:141:VAL:CG1	44:VK:173:PRO:HD3	2.49	0.41
44:VK:322:ASP:OD1	44:VK:372:MET:HG3	2.21	0.41
45:VL:164:MET:HE2	45:VL:196:ALA:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VL:398:TYR:CD2	45:VL:408:PHE:HZ	2.38	0.41
44:VM:314:ALA:O	44:VM:380:ASN:N	2.51	0.41
44:VM:425:LEU:HD23	44:VM:425:LEU:HA	1.77	0.41
45:VN:69:GLU:HA	45:VN:70:PRO:HD3	1.90	0.41
45:VN:149:THR:HG23	45:VN:150:LEU:N	2.35	0.41
45:VN:345:ILE:HG12	45:VN:345:ILE:O	2.20	0.41
45:WB:191:GLN:O	45:WB:194:GLU:HB3	2.20	0.41
44:WC:26:LEU:HG	44:WC:26:LEU:O	2.20	0.41
44:WC:37:PRO:O	44:WC:38:SER:C	2.59	0.41
44:WC:185:TYR:OH	44:WC:398:MET:HG3	2.21	0.41
44:WC:222:PRO:CG	45:WD:324:LYS:HD3	2.50	0.41
45:WD:4:ILE:CG2	45:WD:131:GLN:HB3	2.50	0.41
44:WE:32:PRO:HB3	44:WE:83:TYR:CD1	2.55	0.41
45:WF:325:GLU:HA	45:WF:328:GLU:CD	2.41	0.41
44:WG:107:HIS:O	44:WG:107:HIS:CG	2.73	0.41
44:WG:346:TRP:HD1	45:WJ:391:ARG:NH1	2.18	0.41
44:WG:352:LYS:HD2	45:WJ:177:ASP:O	2.20	0.41
44:WG:422:ARG:HH12	44:WG:426:ALA:HB2	1.85	0.41
45:WH:135:ILE:HG22	45:WH:137:HIS:CE1	2.54	0.41
45:WH:352:SER:C	45:WH:353:ILE:HD12	2.40	0.41
44:WI:210:TYR:CD1	45:WJ:324:LYS:HD2	2.54	0.41
45:WJ:327:ASP:O	45:WJ:331:LEU:HB2	2.21	0.41
44:WK:17:GLY:O	44:WK:18:ASN:C	2.58	0.41
44:WK:17:GLY:HA2	44:WK:20:CYS:SG	2.60	0.41
44:WK:150:GLY:O	44:WK:154:LEU:HD23	2.20	0.41
45:WL:258:ILE:HD13	45:WL:266:PHE:HZ	1.86	0.41
44:WM:122:ILE:HG22	44:WM:161:TYR:OH	2.20	0.41
45:WN:231:ALA:HB1	45:WN:270:PHE:CE2	2.56	0.41
45:WN:296:ALA:HA	45:WN:305:PRO:HG2	2.02	0.41
1:6H:266:LYS:HZ1	44:FE:363:VAL:CG2	2.30	0.41
7:0F:190:GLY:C	44:EE:79:ARG:CZ	2.89	0.41
5:1D:93:GLN:OE1	44:EG:31:GLN:HB3	2.20	0.41
5:1D:177:THR:CG2	45:EF:47:ILE:HG22	2.51	0.41
19:1I:28:GLU:OE2	45:JD:216:LYS:HD3	2.19	0.41
20:1J:48:TYR:CE1	45:HD:45:GLU:HA	2.55	0.41
22:1L:549:LEU:CD2	44:BE:367:ASP:HA	2.43	0.41
25:1P:165:LEU:HA	44:TI:282:TYR:CE2	2.55	0.41
32:2I:75:SER:CB	44:FE:123:ARG:HG3	2.51	0.41
22:2L:643:ARG:O	45:CL:357:PRO:HG3	2.20	0.41
25:2P:381:PHE:CZ	44:TM:372:MET:HA	2.54	0.41
26:2R:392:LEU:HD12	45:EH:276:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2W:189:ARG:HH11	44:KM:46:ASP:N	2.18	0.41
28:3C:67:LYS:CD	44:LA:82:THR:HG22	2.50	0.41
32:3I:210:PRO:HD2	44:FK:117:LEU:CD1	2.45	0.41
32:3I:213:SER:CB	44:FK:94:SER:HB3	2.50	0.41
15:3V:128:GLN:HG2	45:LD:413:SER:HA	2.03	0.41
34:4F:5:VAL:CG2	44:GI:84:ARG:HH12	2.32	0.41
34:4F:57:VAL:CG1	45:IJ:245:GLN:HE22	2.32	0.41
16:4X:92:LYS:HD3	35:5R:21:LEU:CD1	2.40	0.41
37:5D:20:LEU:CA	45:KN:415:MET:O	2.66	0.41
38:5G:119:GLU:HG3	38:5G:122:PHE:HD2	1.84	0.41
39:5J:48:LEU:HD21	44:JE:430:LYS:CE	2.50	0.41
11:5Q:69:LEU:O	11:5Q:69:LEU:CD2	2.63	0.41
35:5R:547:GLU:O	35:5R:550:VAL:HG22	2.20	0.41
36:5S:73:ASP:OD1	36:5S:73:ASP:N	2.50	0.41
36:5S:186:ILE:C	36:5S:188:PRO:HD2	2.41	0.41
41:6G:265:LEU:CD2	44:VA:339:ARG:HD2	2.50	0.41
11:6Q:185:LEU:HD23	11:6Q:186:PRO:N	2.35	0.41
35:6R:12:LEU:HD12	35:6R:15:HIS:NE2	2.35	0.41
35:6R:319:PRO:CG	45:CN:228:LEU:CD2	2.98	0.41
35:7R:207:ASP:OD1	35:7R:207:ASP:C	2.59	0.41
35:7R:245:LEU:HD11	35:7R:249:LEU:CD1	2.51	0.41
35:7R:429:LYS:O	35:7R:504:GLN:N	2.42	0.41
35:7R:497:GLN:CG	35:7R:502:ARG:HG2	2.49	0.41
42:8L:32:UNK:O	42:8L:36:UNK:N	2.52	0.41
43:8P:63:UNK:O	43:8P:64:UNK:C	2.69	0.41
43:8R:81:UNK:O	43:8R:87:UNK:HA	2.19	0.41
44:AC:288:VAL:HG23	44:AC:291:ILE:HD11	2.01	0.41
44:AC:430:LYS:O	44:AC:430:LYS:HD3	2.20	0.41
45:AD:36:TYR:CE1	45:AD:44:LEU:HD11	2.54	0.41
44:AG:99:ALA:O	44:AG:105:ARG:HD3	2.20	0.41
44:AG:194:LEU:O	44:AG:194:LEU:HD12	2.21	0.41
45:AH:31:ASP:CB	45:AH:32:PRO:HD2	2.50	0.41
44:AI:323:VAL:HG23	44:AI:355:ILE:HG23	2.02	0.41
44:AI:407:TRP:CE3	45:AJ:255:VAL:HA	2.53	0.41
45:AJ:215:LEU:HB3	45:AJ:217:LEU:HD23	2.01	0.41
44:AK:238:LEU:CD2	44:AK:255:PHE:HE2	2.33	0.41
45:AL:52:ASN:OD1	45:AL:62:ARG:NH1	2.52	0.41
45:AL:314:SER:HB3	45:AL:368:VAL:O	2.20	0.41
45:AL:321:MET:HB3	45:AL:363:MET:CE	2.51	0.41
44:AM:96:LYS:HD3	45:AN:1:MET:CE	2.49	0.41
44:AM:118:CYS:SG	44:AM:153:LEU:HD21	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:81:PHE:HA	45:AN:84:LEU:HD13	2.03	0.41
45:AN:143:THR:HG22	48:AN:501:GDP:O2B	2.19	0.41
44:BA:17:GLY:HA2	44:BA:20:CYS:SG	2.59	0.41
44:BA:223:THR:HG23	44:BA:225:THR:N	2.22	0.41
44:BA:401:LYS:O	44:BA:402:ARG:HG2	2.20	0.41
44:BA:408:TYR:HB3	44:BA:413:MET:HE1	2.02	0.41
44:BC:21:TRP:HZ2	44:BC:65:ALA:HB2	1.85	0.41
44:BC:387:VAL:HA	44:BC:390:ARG:CG	2.50	0.41
45:BD:49:VAL:CG2	45:BD:241:ARG:HG2	2.50	0.41
45:BD:91:VAL:O	45:BD:91:VAL:HG23	2.20	0.41
45:BD:107:THR:CG2	45:BD:108:GLU:N	2.83	0.41
45:BD:192:LEU:HD11	45:BD:196:ALA:HB2	2.01	0.41
44:BE:326:LYS:HE2	45:BH:208:TYR:CD2	2.55	0.41
45:BF:3:GLU:HB2	45:BF:49:VAL:O	2.20	0.41
44:BG:252:ILE:HA	44:BG:255:PHE:CD2	2.56	0.41
44:BG:362:VAL:HG13	44:BG:362:VAL:O	2.19	0.41
45:BH:112:LEU:HD23	45:BH:112:LEU:O	2.19	0.41
44:BI:22:GLU:HG3	44:BI:83:TYR:CZ	2.55	0.41
44:BI:91:GLN:C	44:BI:93:ILE:HD12	2.40	0.41
44:BI:182:VAL:HG22	44:BI:182:VAL:O	2.21	0.41
44:BI:221:ARG:HH11	45:BJ:322:SER:HB3	1.85	0.41
45:BJ:141:GLY:O	45:BJ:145:SER:HB3	2.20	0.41
45:BJ:248:SER:OG	45:BJ:252:LYS:HD2	2.19	0.41
44:BK:8:HIS:HB3	44:BK:14:ILE:HD13	2.02	0.41
44:BK:212:ILE:HD13	44:BK:215:ARG:NH2	2.31	0.41
45:BL:249:ASP:O	45:BL:252:LYS:HG2	2.20	0.41
45:BL:320:ARG:HD3	45:BL:320:ARG:HA	1.75	0.41
44:BM:268:MET:HG3	44:BM:378:ILE:CG2	2.50	0.41
44:BM:301:MET:CE	44:BM:307:PRO:HG3	2.51	0.41
45:BN:309:ARG:HD2	45:BN:342:VAL:N	2.34	0.41
44:CA:228:ASN:O	44:CA:232:ALA:N	2.36	0.41
44:CA:322:ASP:OD1	44:CA:373:ARG:HD3	2.20	0.41
44:CC:166:LYS:HG3	44:CC:198:THR:HG23	2.02	0.41
44:CC:261:PRO:HG2	44:CC:346:TRP:CH2	2.55	0.41
45:CD:77:ARG:NH1	45:CD:77:ARG:HB2	2.35	0.41
45:CD:161:ASP:O	45:CD:162:ARG:NE	2.53	0.41
44:CE:301:MET:HG3	44:CE:307:PRO:HD3	2.02	0.41
45:CF:191:GLN:OE1	45:CF:191:GLN:HA	2.20	0.41
44:CG:103:PHE:HE1	44:CG:147:SER:HB2	1.85	0.41
44:CG:344:VAL:HG22	44:CG:345:ASP:N	2.36	0.41
45:CH:73:MET:O	45:CH:76:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:101:TRP:HB3	45:CH:398:TYR:CE1	2.50	0.41
45:CH:238:CYS:CB	45:CH:318:ARG:HE	2.33	0.41
44:CI:89:PRO:HB3	44:DI:280:LYS:CD	2.51	0.41
44:CI:252:ILE:HA	44:CI:255:PHE:HD2	1.85	0.41
44:CI:262:TYR:HE1	45:CJ:393:ALA:HA	1.84	0.41
44:CI:294:SER:HA	44:CI:297:GLU:CD	2.41	0.41
44:CK:7:ILE:CD1	44:CK:135:PHE:HD1	2.33	0.41
44:CK:104:ALA:CB	44:CK:411:GLU:HB2	2.49	0.41
45:CN:50:TYR:HE2	45:CN:241:ARG:NE	2.18	0.41
45:CN:180:VAL:HG22	45:CN:180:VAL:O	2.20	0.41
45:CN:423:GLN:HG3	45:CN:423:GLN:H	1.71	0.41
45:DB:52:ASN:ND2	45:DB:62:ARG:HH21	2.18	0.41
45:DB:73:MET:O	45:DB:76:VAL:HG12	2.21	0.41
45:DB:86:ARG:NH2	45:EB:281:TYR:HD2	2.18	0.41
45:DB:238:CYS:HB2	45:DB:318:ARG:CZ	2.50	0.41
45:DD:72:THR:CG2	45:DD:73:MET:N	2.83	0.41
44:DE:143:GLY:HA3	46:DE:501:GTP:PB	2.61	0.41
44:DE:183:GLU:N	44:DE:184:PRO:CD	2.83	0.41
44:DE:319:TYR:CZ	44:DE:375:VAL:HG23	2.55	0.41
45:DF:337:ASN:O	45:DF:341:PHE:HD2	2.04	0.41
44:DG:71:GLU:CD	44:DG:73:THR:H	2.19	0.41
44:DG:419:SER:O	44:DG:423:GLU:OE1	2.38	0.41
44:DG:428:LEU:N	44:DG:428:LEU:HD12	2.35	0.41
45:DH:203:ASP:HB2	45:DH:301:CYS:HA	2.01	0.41
45:DH:270:PHE:HD2	45:DH:273:LEU:CD2	2.34	0.41
44:DI:292:THR:HG23	44:DI:293:ASN:N	2.36	0.41
44:DM:1:MET:HE2	45:DN:94:GLN:HG2	2.01	0.41
44:DM:323:VAL:HG11	44:DM:373:ARG:NH1	2.35	0.41
45:DN:175:VAL:HG22	45:DN:205:GLU:HB3	2.00	0.41
44:EA:233:GLN:O	44:EA:236:SER:N	2.53	0.41
45:EB:1:MET:C	45:EB:2:ARG:HG2	2.40	0.41
45:EB:52:ASN:HD21	45:EB:62:ARG:NH1	2.18	0.41
44:EC:5:ILE:HG13	44:EC:64:ARG:CD	2.50	0.41
44:EC:174:SER:HB2	44:EC:177:VAL:HB	2.02	0.41
44:EC:331:SER:O	44:EC:335:ILE:HG12	2.20	0.41
45:ED:143:THR:N	48:ED:501:GDP:O1B	2.53	0.41
44:EE:11:GLN:HE22	44:EE:74:VAL:CG2	2.33	0.41
44:EE:261:PRO:HB3	45:EF:394:PHE:CE1	2.55	0.41
45:EF:25:SER:HB3	45:EF:81:PHE:CE2	2.55	0.41
45:EF:27:GLU:CD	45:EF:241:ARG:HH12	2.24	0.41
45:EF:62:ARG:HG2	45:EF:123:GLU:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EF:99:ASN:HA	45:EF:142:GLY:CA	2.50	0.41
45:EF:334:GLN:O	45:EF:338:SER:N	2.54	0.41
45:EF:391:ARG:HA	45:EF:391:ARG:HD2	1.85	0.41
44:EG:5:ILE:O	44:EG:7:ILE:HD12	2.21	0.41
44:EG:31:GLN:CD	44:EG:37:PRO:HA	2.40	0.41
44:EG:128:ASN:HD21	44:FE:285:GLN:NE2	2.19	0.41
44:EG:262:TYR:CZ	45:EH:393:ALA:HA	2.55	0.41
44:EG:278:ALA:CA	44:EG:369:ALA:HB2	2.50	0.41
45:EH:11:GLN:CB	45:EH:72:THR:HG21	2.50	0.41
45:EH:58:ARG:CZ	45:FH:281:TYR:HE1	2.33	0.41
45:EH:363:MET:SD	45:EH:363:MET:C	2.99	0.41
44:EI:195:LEU:HA	44:EI:266:HIS:CE1	2.56	0.41
44:EI:206:ASN:HA	44:EI:209:ILE:CD1	2.49	0.41
44:EI:344:VAL:HG12	44:EI:345:ASP:H	1.85	0.41
46:EI:501:GTP:O2A	46:EI:501:GTP:H8	2.04	0.41
45:EJ:69:GLU:OE2	45:EJ:72:THR:HB	2.20	0.41
45:EJ:246:LEU:HA	44:EK:11:GLN:NE2	2.28	0.41
45:EJ:331:LEU:HD22	44:EK:176:GLN:O	2.20	0.41
44:EK:248:LEU:HD11	48:EL:501:GDP:H5"	2.02	0.41
45:EL:252:LYS:CB	44:EM:100:ALA:HA	2.50	0.41
44:EM:182:VAL:O	44:EM:182:VAL:HG22	2.21	0.41
45:EN:254:ALA:CA	45:EN:258:ILE:HD13	2.46	0.41
45:EN:259:PRO:HB2	45:EN:260:PHE:CD2	2.55	0.41
44:FA:145:THR:OG1	44:FA:149:LEU:HG	2.20	0.41
44:FA:287:SER:O	44:FA:291:ILE:HG23	2.20	0.41
44:FA:352:LYS:HD3	45:FD:178:THR:HG22	2.03	0.41
44:FA:386:GLU:O	44:FA:390:ARG:HG2	2.20	0.41
44:FA:403:ALA:HA	45:FB:260:PHE:CZ	2.55	0.41
45:FB:1:MET:C	45:FB:2:ARG:HG2	2.38	0.41
45:FB:306:ARG:C	45:FB:340:TYR:HE2	2.24	0.41
44:FC:325:PRO:O	44:FC:328:VAL:N	2.51	0.41
44:FC:404:PHE:CZ	45:FD:259:PRO:HA	2.55	0.41
45:FD:120:VAL:HG13	45:FD:121:ARG:N	2.36	0.41
45:FD:262:ARG:HG3	45:FD:263:LEU:HD12	2.03	0.41
45:FD:268:ILE:HG23	45:FD:300:MET:CE	2.48	0.41
44:FE:91:GLN:CG	44:FE:92:LEU:HD12	2.48	0.41
44:FE:300:ASN:C	44:FE:301:MET:HE2	2.41	0.41
44:FG:308:ARG:HG3	44:FG:308:ARG:HH11	1.85	0.41
44:FI:70:LEU:HD11	44:FI:149:LEU:CD2	2.51	0.41
45:FJ:68:LEU:HD13	45:FJ:93:GLY:HA3	2.02	0.41
45:FJ:86:ARG:NE	45:FJ:87:PRO:HD2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FK:14:ILE:HD13	44:FK:74:VAL:HG13	2.03	0.41
44:FK:285:GLN:OE1	44:FK:287:SER:HA	2.20	0.41
44:FK:387:VAL:HG23	44:FK:388:PHE:CD1	2.56	0.41
45:FL:4:ILE:HG22	45:FL:5:VAL:O	2.21	0.41
45:FL:185:ALA:O	45:FL:189:VAL:HG23	2.21	0.41
45:FL:217:LEU:CD1	45:FL:220:PRO:HG3	2.50	0.41
45:FL:406:MET:O	45:FL:410:GLU:HG3	2.21	0.41
44:FM:230:LEU:HD13	44:FM:233:GLN:OE1	2.20	0.41
44:FM:313:MET:HG3	44:FM:346:TRP:CH2	2.55	0.41
44:FM:403:ALA:HB2	45:FN:260:PHE:CE1	2.56	0.41
45:FN:21:TRP:CZ2	45:FN:63:ALA:HB2	2.56	0.41
44:GA:320:ARG:HG3	44:GA:360:PRO:HD3	2.03	0.41
45:GB:101:TRP:H	45:GB:398:TYR:HE1	1.65	0.41
45:GD:39:ASP:OD1	45:GD:39:ASP:C	2.58	0.41
45:GD:149:THR:O	45:GD:153:SER:N	2.44	0.41
45:GF:178:THR:HG22	45:GF:181:GLU:HG3	2.02	0.41
45:GF:289:LEU:HD11	45:GF:363:MET:HB3	2.02	0.41
45:GF:290:THR:CB	45:GF:293:MET:HE2	2.49	0.41
44:GG:99:ALA:HB2	44:GG:145:THR:HB	2.01	0.41
44:GG:182:VAL:O	44:GG:182:VAL:HG22	2.19	0.41
44:GG:231:ILE:O	44:GG:234:VAL:N	2.53	0.41
45:GH:21:TRP:CH2	45:GH:61:PRO:HB3	2.55	0.41
45:GH:49:VAL:HG13	45:GH:50:TYR:N	2.35	0.41
45:GH:150:LEU:HD23	45:GH:150:LEU:C	2.40	0.41
45:GH:247:ASN:O	45:GH:247:ASN:OD1	2.39	0.41
45:GH:258:ILE:HG22	45:GH:260:PHE:O	2.20	0.41
44:GI:259:LEU:HD11	44:GI:316:SER:HB3	2.02	0.41
44:GI:326:LYS:HD3	44:GI:326:LYS:HA	1.85	0.41
45:GJ:85:PHE:N	45:GJ:85:PHE:CD1	2.88	0.41
45:GJ:101:TRP:NE1	45:GJ:146:GLY:HA2	2.35	0.41
45:GJ:113:ILE:CA	45:GJ:116:VAL:HG12	2.48	0.41
44:GK:84:ARG:NH1	44:GK:85:GLN:OE1	2.53	0.41
44:GM:377:MET:HE1	44:GM:379:SER:HB3	2.01	0.41
45:GN:12:CYS:CB	45:GN:138:SER:HB2	2.48	0.41
45:GN:100:ASN:ND2	45:GN:103:LYS:H	2.18	0.41
45:GN:165:GLU:OE2	45:GN:250:LEU:HD13	2.20	0.41
45:GN:192:LEU:CD1	45:GN:196:ALA:HB2	2.51	0.41
45:GN:263:LEU:HG	45:GN:422:TYR:HD1	1.85	0.41
45:GN:334:GLN:HB2	45:GN:349:ILE:CD1	2.51	0.41
44:HA:91:GLN:HG3	44:HA:121:ARG:CD	2.50	0.41
44:HA:224:TYR:CG	46:HA:501:GTP:O6	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HA:258:ASN:HD21	45:HD:178:THR:HG23	1.84	0.41
45:HB:316:LEU:C	45:HB:365:VAL:HG13	2.41	0.41
44:HC:223:THR:HB	45:HD:322:SER:HB2	2.02	0.41
45:HD:8:GLN:O	45:HD:8:GLN:HG2	2.19	0.41
45:HD:162:ARG:HA	45:HD:162:ARG:NE	2.36	0.41
45:HD:212:PHE:CE1	45:HD:220:PRO:HG2	2.55	0.41
44:HG:88:HIS:CE1	44:HG:90:GLU:HG2	2.55	0.41
44:HG:285:GLN:O	44:HG:286:LEU:HB2	2.19	0.41
44:HG:288:VAL:C	44:HG:291:ILE:HG12	2.41	0.41
45:HH:11:GLN:N	48:HH:501:GDP:O1B	2.39	0.41
44:HI:22:GLU:HG3	44:HI:83:TYR:CE2	2.56	0.41
44:HI:182:VAL:HG22	44:HI:182:VAL:O	2.21	0.41
45:HJ:217:LEU:C	45:HJ:217:LEU:HD12	2.41	0.41
45:HJ:268:ILE:O	45:HJ:300:MET:HB2	2.20	0.41
44:HK:93:ILE:HD12	44:HK:93:ILE:H	1.85	0.41
45:HL:21:TRP:CZ2	45:HL:63:ALA:HB2	2.55	0.41
45:HL:201:VAL:HG22	45:HL:266:PHE:O	2.21	0.41
45:HL:392:LYS:HE2	45:HL:395:LEU:CD2	2.50	0.41
45:HL:403:MET:HG3	45:HL:407:GLU:OE2	2.20	0.41
44:HM:88:HIS:O	44:HM:92:LEU:HD13	2.20	0.41
44:HM:276:ILE:HD11	44:HM:280:LYS:HG2	2.02	0.41
45:HN:221:THR:HG23	45:HN:224:ASP:N	2.34	0.41
45:HN:236:VAL:HG23	45:HN:237:THR:N	2.36	0.41
44:IA:210:TYR:CZ	45:IB:324:LYS:HG2	2.55	0.41
44:IA:402:ARG:C	44:IA:405:VAL:HG13	2.41	0.41
44:IA:429:GLU:HA	44:IA:432:TYR:CD2	2.53	0.41
45:IB:21:TRP:CE2	45:IB:63:ALA:HB2	2.54	0.41
44:IC:175:PRO:HD2	44:IC:207:GLU:OE1	2.20	0.41
44:IC:285:GLN:HG3	44:IC:287:SER:HB3	2.01	0.41
44:IC:420:GLU:HA	44:IC:423:GLU:OE2	2.20	0.41
44:IE:1:MET:SD	45:IH:94:GLN:HG2	2.60	0.41
44:IE:349:THR:O	44:IE:349:THR:HG23	2.19	0.41
45:IF:9:GLY:HA2	45:IF:66:MET:O	2.20	0.41
44:IG:42:ILE:HG13	44:IG:42:ILE:O	2.21	0.41
44:IG:172:TYR:CB	44:IG:173:PRO:HD2	2.46	0.41
44:IG:355:ILE:HG22	44:IG:356:ASN:N	2.35	0.41
45:IH:341:PHE:HD2	45:IH:348:ASN:HD21	1.68	0.41
44:II:137:VAL:O	44:II:168:GLY:HA2	2.20	0.41
45:IJ:164:MET:HE3	45:IJ:166:THR:HG23	2.02	0.41
45:IJ:238:CYS:HA	45:IJ:241:ARG:NH1	2.34	0.41
44:IK:115:VAL:HG23	44:IK:153:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:254:GLU:HG2	45:IN:98:GLY:CA	2.48	0.41
45:IN:47:ILE:HG13	45:IN:47:ILE:O	2.20	0.41
44:JA:103:PHE:CE2	44:JA:107:HIS:HB2	2.55	0.41
44:JA:103:PHE:HD1	44:JA:189:LEU:CD2	2.33	0.41
44:JA:188:ILE:HG23	44:JA:189:LEU:N	2.35	0.41
45:JB:149:THR:HG23	45:JB:150:LEU:N	2.35	0.41
45:JB:214:THR:CG2	45:JB:274:THR:HA	2.51	0.41
45:JB:288:GLU:HA	45:JB:288:GLU:OE1	2.20	0.41
44:JC:251:ASP:HB2	44:JC:254:GLU:OE2	2.20	0.41
44:JC:260:VAL:HG23	44:JC:266:HIS:HB3	2.01	0.41
44:JC:404:PHE:CE1	45:JD:259:PRO:HA	2.55	0.41
45:JD:102:ALA:CB	45:JD:401:GLU:HB2	2.50	0.41
44:JE:107:HIS:O	44:JE:108:TYR:CD1	2.74	0.41
44:JE:326:LYS:HZ1	45:JH:220:PRO:HB2	1.85	0.41
45:JF:347:ASN:O	45:JF:347:ASN:OD1	2.39	0.41
44:JG:269:LEU:HD12	44:JG:379:SER:OG	2.20	0.41
44:JI:277:SER:O	44:JI:369:ALA:HB2	2.20	0.41
44:JI:325:PRO:HG3	45:JL:222:TYR:CE2	2.55	0.41
45:JJ:143:THR:H	48:JJ:501:GDP:PB	2.43	0.41
45:JJ:289:LEU:HD11	45:JJ:363:MET:CB	2.50	0.41
44:JK:12:GLY:HA2	46:JK:501:GTP:N7	2.35	0.41
44:JK:16:VAL:CG2	44:JK:231:ILE:HG21	2.51	0.41
44:JK:26:LEU:HD13	44:JK:363:VAL:CG1	2.38	0.41
45:JL:47:ILE:HG13	45:JL:47:ILE:O	2.21	0.41
45:JL:152:ILE:O	45:JL:155:VAL:HG12	2.19	0.41
45:JL:266:PHE:HE1	45:JL:370:ASN:ND2	2.18	0.41
44:JM:72:PRO:HD2	45:JN:2:ARG:NH1	2.35	0.41
45:JN:215:LEU:CA	45:JN:275:SER:HB3	2.41	0.41
45:JN:237:THR:HG23	45:JN:241:ARG:NH2	2.34	0.41
45:JN:257:LEU:HD21	45:JN:314:SER:HB3	2.02	0.41
44:KA:221:ARG:NE	45:KB:322:SER:HB3	2.29	0.41
44:KA:404:PHE:CE2	45:KB:259:PRO:HA	2.55	0.41
45:KB:116:VAL:HG13	45:KB:117:LEU:N	2.35	0.41
44:KC:256:GLN:O	44:KC:260:VAL:HG22	2.20	0.41
44:KC:269:LEU:C	44:KC:269:LEU:HD12	2.40	0.41
45:KD:167:PHE:CE1	45:KD:233:MET:CG	3.03	0.41
44:KE:206:ASN:OD1	44:KE:206:ASN:C	2.58	0.41
44:KE:221:ARG:N	44:KE:222:PRO:HD3	2.35	0.41
44:KE:350:GLY:HA2	45:KH:179:VAL:HG23	2.02	0.41
44:KE:426:ALA:HA	44:KE:429:GLU:HB2	2.01	0.41
45:KF:193:VAL:HG21	45:KF:262:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:258:ILE:HD11	45:KF:266:PHE:HZ	1.86	0.41
45:KF:343:GLU:OE2	45:KF:429:THR:HA	2.20	0.41
44:KG:247:ALA:O	44:KG:248:LEU:HD12	2.19	0.41
44:KG:387:VAL:HG13	44:KG:388:PHE:N	2.35	0.41
45:KH:310:TYR:CE1	45:KH:371:SER:HB2	2.55	0.41
44:KI:200:VAL:HG13	44:KI:268:MET:HE2	2.03	0.41
44:KI:280:LYS:HB3	44:KI:280:LYS:HE2	1.89	0.41
44:KI:363:VAL:CG1	44:KI:364:PRO:HD2	2.50	0.41
45:KJ:167:PHE:CE1	45:KJ:200:MET:HB2	2.55	0.41
45:KL:11:GLN:HG2	45:KL:72:THR:HG22	2.01	0.41
45:KL:262:ARG:O	45:KL:262:ARG:HG2	2.20	0.41
44:KM:19:ALA:CB	44:KM:229:ARG:HH11	2.33	0.41
45:KN:181:GLU:HB3	45:KN:182:PRO:HD3	2.02	0.41
44:LA:36:MET:CE	44:LA:61:HIS:NE2	2.84	0.41
45:LB:141:GLY:HA3	48:LB:502:GDP:PB	2.61	0.41
45:LB:172:SER:OG	45:LB:175:VAL:HG22	2.20	0.41
45:LD:219:THR:HA	45:LD:220:PRO:HD3	1.95	0.41
44:LE:14:ILE:HD13	44:LE:75:ILE:HD13	2.01	0.41
44:LE:80:THR:O	44:LE:80:THR:CG2	2.68	0.41
44:LE:152:LEU:HD12	44:LE:152:LEU:HA	1.88	0.41
44:LE:269:LEU:HD13	44:LE:305:CYS:SG	2.61	0.41
45:LF:36:TYR:CE1	45:LF:44:LEU:HD21	2.55	0.41
45:LF:192:LEU:HD12	45:LF:196:ALA:HB2	2.02	0.41
45:LF:203:ASP:CB	45:LF:302:ALA:H	2.34	0.41
45:LH:66:MET:HE1	45:LH:147:MET:SD	2.61	0.41
45:LH:105:HIS:HB2	45:LH:146:GLY:HA3	2.03	0.41
45:LH:186:THR:HA	45:LH:189:VAL:HG12	2.02	0.41
45:LH:285:THR:OG1	45:LH:287:PRO:HG2	2.20	0.41
45:LH:392:LYS:CE	45:LH:395:LEU:HD23	2.50	0.41
44:LI:16:VAL:HG23	44:LI:17:GLY:N	2.35	0.41
45:LJ:65:LEU:HD13	45:LJ:90:PHE:CE1	2.42	0.41
45:LL:68:LEU:HD13	45:LL:143:THR:OG1	2.20	0.41
45:LL:201:VAL:HG23	45:LL:301:CYS:SG	2.61	0.41
44:LM:30:ILE:HD13	44:LM:36:MET:CE	2.51	0.41
44:LM:44:GLY:HA2	44:LM:245:ASP:OD2	2.21	0.41
44:LM:135:PHE:C	44:LM:136:LEU:HD12	2.41	0.41
44:LM:141:VAL:HG21	44:LM:172:TYR:HD1	1.83	0.41
44:LM:141:VAL:CG2	44:LM:170:THR:HB	2.50	0.41
44:LM:167:LEU:CD1	44:LM:200:VAL:HB	2.50	0.41
44:MA:205:ASP:OD2	44:MA:304:LYS:N	2.48	0.41
44:MC:173:PRO:CD	44:MC:391:LEU:HD21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MC:349:THR:O	44:MC:349:THR:HG23	2.20	0.41
45:MD:2:ARG:HH12	45:MD:46:ARG:NH1	2.18	0.41
45:MD:7:ILE:HB	45:MD:135:ILE:HD13	2.02	0.41
44:ME:119:LEU:HD13	44:ME:156:ARG:HH11	1.86	0.41
44:ME:377:MET:SD	44:ME:377:MET:N	2.93	0.41
45:MF:177:ASP:N	45:MF:181:GLU:OE2	2.46	0.41
45:MF:245:GLN:HG3	45:MF:353:ILE:CG2	2.50	0.41
45:MH:325:GLU:HA	45:MH:328:GLU:CG	2.49	0.41
44:MI:344:VAL:HG22	44:MI:345:ASP:N	2.35	0.41
44:MK:268:MET:HG3	44:MK:378:ILE:HG22	2.03	0.41
44:MK:312:TYR:HB2	44:MK:343:PHE:CD1	2.55	0.41
45:ML:8:GLN:O	45:ML:66:MET:HG3	2.21	0.41
45:ML:65:LEU:HD21	45:ML:85:PHE:HE2	1.85	0.41
45:ML:342:VAL:HG13	45:ML:345:ILE:HG22	2.02	0.41
44:MM:49:PHE:O	44:MM:53:PHE:N	2.54	0.41
44:MM:102:ASN:OD1	44:MM:105:ARG:N	2.53	0.41
44:MM:109:THR:CG2	44:MM:110:ILE:N	2.83	0.41
45:MN:11:GLN:HA	45:MN:72:THR:HG21	2.02	0.41
45:MN:143:THR:HG22	48:MN:502:GDP:PB	2.60	0.41
45:MN:364:ALA:O	45:MN:365:VAL:HG23	2.20	0.41
45:NB:309:ARG:HH11	45:NB:309:ARG:HG2	1.85	0.41
44:NC:63:PRO:HG2	44:NC:86:LEU:HD21	2.01	0.41
44:NC:293:ASN:O	44:NC:296:PHE:N	2.50	0.41
45:ND:325:GLU:N	45:ND:325:GLU:OE1	2.32	0.41
44:NE:138:PHE:O	44:NE:139:ASN:HB3	2.20	0.41
44:NE:141:VAL:HG22	44:NE:187:SER:HA	2.03	0.41
45:NF:68:LEU:HB3	45:NF:143:THR:OG1	2.21	0.41
45:NF:260:PHE:HE2	45:NF:425:TYR:CE2	2.38	0.41
45:NH:60:VAL:O	45:NH:60:VAL:HG13	2.20	0.41
45:NH:268:ILE:O	45:NH:300:MET:HB2	2.20	0.41
44:NI:90:GLU:OE2	44:OI:280:LYS:HE3	2.20	0.41
44:NI:195:LEU:HG	44:NI:266:HIS:HE1	1.85	0.41
44:NI:326:LYS:HD3	45:NL:220:PRO:CD	2.51	0.41
45:NJ:2:ARG:HB2	45:NJ:131:GLN:CG	2.46	0.41
45:NJ:65:LEU:HD22	45:NJ:90:PHE:HE1	1.85	0.41
45:NJ:193:VAL:CG2	45:NJ:264:HIS:HE1	2.34	0.41
44:NK:158:SER:O	44:NK:162:GLY:N	2.53	0.41
44:NK:273:ALA:HB2	44:NK:300:ASN:ND2	2.35	0.41
45:NL:19:LYS:O	45:NL:22:GLU:N	2.53	0.41
45:NL:20:PHE:HA	45:NL:23:VAL:CG1	2.45	0.41
45:NL:328:GLU:HG3	45:NL:329:GLN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:313:MET:HG3	44:NM:346:TRP:HH2	1.86	0.41
44:OA:91:GLN:CG	44:OA:92:LEU:HD12	2.51	0.41
44:OA:141:VAL:HG11	44:OA:172:TYR:CD1	2.56	0.41
45:OB:49:VAL:HG13	45:OB:50:TYR:N	2.35	0.41
45:OB:257:LEU:HB3	45:OB:266:PHE:HZ	1.85	0.41
44:OE:329:ASN:HB3	45:OH:175:VAL:HG11	2.01	0.41
45:OF:342:VAL:HG22	45:OF:343:GLU:H	1.85	0.41
44:OG:208:ALA:N	44:OG:304:LYS:CE	2.83	0.41
44:OG:326:LYS:NZ	45:OJ:220:PRO:HD3	2.35	0.41
44:OI:93:ILE:HD12	44:OI:117:LEU:HD23	2.02	0.41
44:OI:137:VAL:HG23	44:OI:168:GLY:HA2	2.03	0.41
44:OI:313:MET:CE	44:OI:346:TRP:HZ2	2.33	0.41
45:OJ:133:PHE:CE2	45:OJ:155:VAL:CG1	3.03	0.41
45:OL:63:ALA:C	45:OL:64:ILE:HD12	2.40	0.41
45:OL:113:ILE:HD12	45:OL:150:LEU:HD22	2.00	0.41
45:OL:278:SER:O	45:OL:281:TYR:N	2.46	0.41
45:OL:319:GLY:HA2	45:OL:357:PRO:HG3	2.02	0.41
44:OM:183:GLU:HG2	44:OM:184:PRO:N	2.34	0.41
44:OM:220:GLU:O	44:OM:221:ARG:HD3	2.21	0.41
44:PA:329:ASN:ND2	45:PD:175:VAL:CG1	2.84	0.41
45:PB:44:LEU:HD23	45:PB:47:ILE:HD12	2.03	0.41
44:PC:210:TYR:HE1	44:PC:227:LEU:HD21	1.82	0.41
45:PD:258:ILE:HG23	45:PD:266:PHE:HZ	1.86	0.41
45:PD:276:ARG:HA	45:PD:276:ARG:HD3	1.86	0.41
44:PE:243:ARG:O	44:PE:244:PHE:CD1	2.74	0.41
45:PF:318:ARG:O	45:PF:321:MET:HE3	2.20	0.41
45:PF:394:PHE:HA	45:PF:397:TRP:HZ3	1.85	0.41
44:PG:191:THR:HA	44:PG:194:LEU:HD21	2.03	0.41
45:PH:3:GLU:OE1	45:PH:3:GLU:N	2.46	0.41
45:PH:69:GLU:HA	45:PH:70:PRO:HD3	1.88	0.41
45:PH:107:THR:HG21	45:PH:401:GLU:HB3	2.03	0.41
45:PH:152:ILE:HD12	45:PH:164:MET:HE1	2.02	0.41
44:PI:258:ASN:CG	45:PL:179:VAL:HG22	2.40	0.41
44:PK:202:VAL:HG22	44:PK:268:MET:O	2.20	0.41
45:PL:32:PRO:HA	45:PL:81:PHE:CD1	2.55	0.41
45:PL:253:LEU:O	45:PL:257:LEU:HB2	2.20	0.41
45:PL:405:GLU:HG2	45:PL:406:MET:CE	2.50	0.41
44:PM:271:SER:O	44:PM:377:MET:HG2	2.21	0.41
45:PN:68:LEU:HD23	45:PN:96:GLY:C	2.41	0.41
45:PN:70:PRO:HG3	45:PN:92:PHE:CD2	2.55	0.41
45:QB:85:PHE:HB3	45:QB:90:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:337:ASN:O	45:QB:341:PHE:HD2	2.02	0.41
45:QD:167:PHE:HE2	45:QD:233:MET:CG	2.31	0.41
44:QE:176:GLN:NE2	44:QE:207:GLU:OE2	2.52	0.41
44:QE:269:LEU:HD22	44:QE:384:ILE:CD1	2.33	0.41
44:QE:325:PRO:O	44:QE:328:VAL:N	2.53	0.41
44:QE:333:ALA:HB2	45:QF:174:LYS:HZ3	1.85	0.41
45:QF:67:ASP:HB3	45:QF:73:MET:CG	2.50	0.41
45:QF:255:VAL:CA	44:QG:407:TRP:HZ3	2.33	0.41
44:QG:209:ILE:H	44:QG:209:ILE:HG13	1.70	0.41
44:QG:346:TRP:HB3	45:QH:391:ARG:HG3	2.03	0.41
45:QH:256:ASN:C	45:QH:257:LEU:HD12	2.41	0.41
45:QH:282:ARG:HG3	45:QH:283:ALA:N	2.36	0.41
44:QK:119:LEU:HD21	44:QK:156:ARG:HD2	2.01	0.41
44:QK:362:VAL:HG22	44:QK:363:VAL:N	2.34	0.41
45:QL:215:LEU:HD12	45:QL:215:LEU:C	2.41	0.41
45:QL:283:ALA:O	45:QL:288:GLU:HG3	2.20	0.41
44:QM:32:PRO:O	44:QM:86:LEU:HD23	2.19	0.41
45:RB:70:PRO:HG3	45:RB:92:PHE:CE2	2.54	0.41
45:RB:395:LEU:O	45:RB:399:THR:HG23	2.20	0.41
44:RC:9:VAL:HG23	44:RC:68:LEU:HB3	2.02	0.41
44:RC:261:PRO:HA	45:RD:394:PHE:CE1	2.56	0.41
44:RE:191:THR:HA	44:RE:194:LEU:CD2	2.50	0.41
44:RE:311:LYS:CE	44:RE:344:VAL:HG23	2.50	0.41
45:RF:163:ILE:HD11	45:RF:250:LEU:HB2	2.03	0.41
45:RF:398:TYR:HD1	45:RF:403:MET:CE	2.34	0.41
44:RG:71:GLU:OE2	44:RG:73:THR:OG1	2.35	0.41
44:RG:312:TYR:HA	44:RG:381:SER:OG	2.20	0.41
44:RI:213:CYS:HB3	44:RI:217:LEU:HD12	2.03	0.41
44:RI:387:VAL:HG12	44:RI:390:ARG:NH1	2.34	0.41
45:RJ:106:TYR:CD2	45:RJ:403:MET:SD	3.14	0.41
44:RK:11:GLN:HB2	46:RK:501:GTP:O1B	2.20	0.41
45:RL:24:ILE:O	45:RL:27:GLU:HB3	2.20	0.41
44:RM:11:GLN:O	44:RM:13:GLY:N	2.54	0.41
44:RM:118:CYS:O	44:RM:122:ILE:N	2.46	0.41
44:RM:284:GLU:O	44:RM:286:LEU:HD23	2.20	0.41
45:RN:42:LEU:HA	45:RN:45:GLU:CG	2.48	0.41
45:RN:51:TYR:CD2	45:RN:59:TYR:HB3	2.55	0.41
45:RN:202:ILE:HD11	45:RN:300:MET:HB2	2.00	0.41
44:SA:151:SER:O	44:SA:154:LEU:HB2	2.20	0.41
44:SA:315:CYS:HB3	44:SA:351:PHE:CE1	2.56	0.41
45:SB:251:ARG:HA	45:SB:254:ALA:CB	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SC:245:ASP:O	44:SC:357:TYR:HD2	2.03	0.41
44:SC:301:MET:HE2	44:SC:303:ALA:HB3	2.02	0.41
45:SF:4:ILE:HD11	45:SF:50:TYR:CE1	2.53	0.41
44:SG:102:ASN:OD1	44:SG:411:GLU:HG3	2.20	0.41
44:SG:286:LEU:HA	44:SG:290:GLU:OE2	2.19	0.41
45:SH:103:LYS:HA	45:SH:107:THR:HG21	2.00	0.41
45:SH:130:LEU:HD11	45:SH:133:PHE:CE1	2.56	0.41
44:SI:23:LEU:HD21	44:SI:236:SER:CB	2.47	0.41
44:SI:200:VAL:HG13	44:SI:268:MET:CE	2.50	0.41
45:SJ:1:MET:CG	44:SK:72:PRO:HG2	2.51	0.41
44:SK:268:MET:HB2	44:SK:380:ASN:CA	2.50	0.41
44:SK:292:THR:HG23	44:SK:293:ASN:N	2.35	0.41
44:SK:306:ASP:OD1	44:SK:308:ARG:HB2	2.20	0.41
44:SK:316:SER:CA	44:SK:352:LYS:HE3	2.50	0.41
45:SL:54:ALA:HB1	45:TL:282:ARG:C	2.40	0.41
45:SL:232:ALA:HB2	45:SL:268:ILE:HD12	2.03	0.41
45:SN:146:GLY:CA	45:SN:149:THR:HG22	2.50	0.41
45:TB:127:CYS:SG	45:TB:130:LEU:HB2	2.60	0.41
45:TB:146:GLY:O	45:TB:149:THR:HG22	2.20	0.41
45:TB:252:LYS:HE2	44:TC:101:ASN:HD21	1.82	0.41
45:TB:398:TYR:C	45:TB:403:MET:HE2	2.41	0.41
44:TC:270:SER:O	44:TC:271:SER:OG	2.22	0.41
45:TD:117:LEU:C	45:TD:120:VAL:HG22	2.41	0.41
44:TE:251:ASP:HB2	44:TE:253:THR:HG22	2.02	0.41
44:TE:387:VAL:HA	44:TE:390:ARG:HD2	2.01	0.41
45:TF:105:HIS:CD2	45:TF:150:LEU:HB2	2.56	0.41
45:TF:116:VAL:O	45:TF:119:VAL:HG22	2.21	0.41
45:TF:151:LEU:HD23	45:TF:155:VAL:HG23	2.01	0.41
44:TG:4:VAL:HG13	44:TG:52:PHE:CE1	2.52	0.41
44:TG:179:THR:CG2	46:TG:501:GTP:H3'	2.41	0.41
44:TG:224:TYR:CD2	46:TG:501:GTP:O6	2.73	0.41
45:TH:99:ASN:CA	45:TH:142:GLY:HA3	2.47	0.41
45:TJ:2:ARG:NE	45:TJ:240:LEU:HG	2.35	0.41
45:TJ:325:GLU:HG3	45:TJ:328:GLU:OE2	2.20	0.41
44:TK:259:LEU:HD21	44:TK:316:SER:CB	2.50	0.41
45:TL:17:GLY:HA2	45:TL:20:PHE:HB2	2.02	0.41
45:TL:183:TYR:HB3	45:TL:398:TYR:CE2	2.55	0.41
44:TM:225:THR:O	44:TM:229:ARG:HG3	2.20	0.41
44:TM:233:GLN:HA	44:TM:236:SER:CB	2.46	0.41
45:TN:42:LEU:CD2	45:TN:242:PHE:HD1	2.33	0.41
44:UA:115:VAL:HB	44:UA:152:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UB:49:VAL:CG1	45:UB:241:ARG:HD3	2.46	0.41
45:UB:113:ILE:HD13	45:UB:150:LEU:HD22	2.02	0.41
44:UC:70:LEU:HD13	44:UC:110:ILE:CD1	2.50	0.41
45:UD:265:PHE:HE1	45:UD:418:LEU:HD21	1.85	0.41
45:UD:269:GLY:HA2	45:UD:300:MET:HG2	2.02	0.41
44:UE:175:PRO:HB2	44:UE:176:GLN:OE1	2.20	0.41
44:UE:320:ARG:HB2	44:UE:358:GLN:O	2.20	0.41
44:UE:360:PRO:HG2	44:UE:374:ALA:CB	2.50	0.41
45:UF:133:PHE:CB	45:UF:164:MET:HG2	2.28	0.41
45:UF:242:PHE:CB	45:UF:356:ILE:HG13	2.50	0.41
45:UF:256:ASN:HB3	44:UG:181:VAL:CG2	2.50	0.41
45:UF:344:TRP:CE3	44:UG:401:LYS:HE3	2.56	0.41
44:UG:93:ILE:HD12	44:UG:93:ILE:H	1.85	0.41
44:UG:200:VAL:HG13	44:UG:268:MET:HE1	2.02	0.41
44:UG:251:ASP:O	44:UG:254:GLU:N	2.48	0.41
45:UH:64:ILE:HG13	45:UH:89:ASN:CG	2.41	0.41
45:UH:114:ASP:HA	45:UH:117:LEU:CB	2.50	0.41
45:UH:242:PHE:CB	45:UH:356:ILE:HG13	2.50	0.41
45:UH:342:VAL:CG2	45:UH:344:TRP:CD1	3.04	0.41
44:UI:260:VAL:HG12	44:UI:262:TYR:O	2.21	0.41
44:UI:405:VAL:O	44:UI:409:VAL:HG23	2.20	0.41
45:UJ:16:ILE:HD13	45:UJ:226:ASN:HA	2.02	0.41
45:UJ:86:ARG:HB3	45:UJ:89:ASN:ND2	2.36	0.41
45:UJ:318:ARG:NH1	45:UJ:358:PRO:HG3	2.35	0.41
45:UJ:324:LYS:HD3	44:UK:222:PRO:HG2	1.98	0.41
44:UK:136:LEU:HD22	44:UK:167:LEU:CB	2.49	0.41
44:UK:256:GLN:OE1	45:UL:397:TRP:HZ2	2.03	0.41
44:UK:311:LYS:HE2	44:UK:342:GLN:NE2	2.35	0.41
45:UL:341:PHE:HD2	45:UL:348:ASN:OD1	2.03	0.41
44:UM:105:ARG:O	44:UM:110:ILE:HG12	2.21	0.41
44:UM:194:LEU:HD12	44:UM:195:LEU:N	2.35	0.41
45:UN:7:ILE:HG21	45:UN:151:LEU:CD1	2.51	0.41
45:UN:318:ARG:HH12	45:UN:358:PRO:HA	1.86	0.41
44:VA:238:LEU:N	44:VA:318:MET:HE1	2.35	0.41
45:VB:130:LEU:HD21	45:VB:133:PHE:CE1	2.53	0.41
45:VB:131:GLN:CG	45:VB:250:LEU:HD12	2.49	0.41
45:VB:175:VAL:O	45:VB:175:VAL:HG23	2.20	0.41
45:VB:323:THR:O	45:VB:326:VAL:HB	2.19	0.41
45:VB:334:GLN:HG3	45:VB:341:PHE:CG	2.55	0.41
44:VC:141:VAL:HG23	44:VC:147:SER:CB	2.49	0.41
45:VD:143:THR:HG23	45:VD:144:GLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:183:TYR:CD2	45:VD:398:TYR:HE2	2.38	0.41
44:VE:276:ILE:HG23	44:VE:281:ALA:HB2	2.02	0.41
44:VG:386:GLU:HA	44:VG:389:SER:OG	2.20	0.41
45:VH:284:LEU:HB3	45:VH:363:MET:HE2	2.01	0.41
44:VI:47:ASP:HB2	44:VI:50:ASN:OD1	2.20	0.41
44:VI:88:HIS:CG	44:VI:89:PRO:HD2	2.55	0.41
44:VI:288:VAL:HA	44:VI:291:ILE:HG12	2.02	0.41
44:VI:319:TYR:O	44:VI:355:ILE:HA	2.20	0.41
44:VI:348:PRO:C	45:VL:384:GLN:HE22	2.24	0.41
44:VI:402:ARG:HG3	44:VI:402:ARG:O	2.20	0.41
44:VI:416:GLY:O	44:VI:419:SER:N	2.53	0.41
44:VK:278:ALA:HA	44:VK:369:ALA:CB	2.50	0.41
44:VK:433:GLU:O	44:VK:437:ILE:HG23	2.19	0.41
45:VL:139:LEU:HD23	45:VL:188:SER:OG	2.21	0.41
44:VM:146:GLY:N	46:VM:501:GTP:O1B	2.53	0.41
44:VM:183:GLU:N	44:VM:184:PRO:HD2	2.35	0.41
44:VM:258:ASN:ND2	44:VM:352:LYS:HE2	2.34	0.41
45:VN:272:PRO:HB3	45:VN:289:LEU:CD2	2.50	0.41
44:WA:55:GLU:HG3	44:WA:57:GLY:H	1.85	0.41
44:WA:73:THR:O	44:WA:76:ASP:N	2.53	0.41
44:WA:186:ASN:CA	44:WA:189:LEU:HB2	2.42	0.41
44:WC:137:VAL:O	44:WC:137:VAL:HG13	2.19	0.41
45:WD:234:SER:HA	45:WD:237:THR:HG22	2.03	0.41
44:WG:273:ALA:HB1	44:WG:274:PRO:HA	2.02	0.41
44:WI:112:LYS:HA	44:WI:115:VAL:HG12	2.03	0.41
44:WI:317:MET:CE	44:WI:375:VAL:HG21	2.48	0.41
44:WI:328:VAL:O	44:WI:332:ILE:HG12	2.20	0.41
45:WJ:251:ARG:O	45:WJ:254:ALA:HB3	2.19	0.41
44:WK:28:HIS:NE2	44:WK:49:PHE:HB3	2.34	0.41
44:WK:67:PHE:HD2	44:WK:92:LEU:HG	1.85	0.41
44:WK:213:CYS:O	44:WK:217:LEU:HB2	2.20	0.41
45:WL:186:THR:HG21	45:WL:385:PHE:CD1	2.55	0.41
44:WM:207:GLU:O	44:WM:210:TYR:HB2	2.20	0.41
44:WM:343:PHE:HE2	44:WM:350:GLY:C	2.23	0.41
5:0D:213:PHE:CG	35:7R:433:GLN:HG2	2.55	0.41
10:0N:215:CYS:CB	45:KN:32:PRO:HG2	2.50	0.41
5:1D:14:TYR:HA	44:CG:79:ARG:CZ	2.45	0.41
20:1J:198:ARG:HA	44:IG:370:LYS:CG	2.26	0.41
20:1J:332:ILE:HB	45:HN:77:ARG:NH1	2.36	0.41
12:1S:96:LEU:CD2	45:MF:410:GLU:HB3	2.49	0.41
13:1T:78:THR:HG22	44:MC:156:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1V:82:THR:HG21	45:LJ:402:GLY:C	2.40	0.41
27:1W:60:LEU:HD23	45:LH:273:LEU:CD2	2.34	0.41
2:2A:150:LEU:HB2	35:5R:86:LEU:HD11	2.01	0.41
29:2F:52:LYS:NZ	44:GC:28:HIS:HA	2.35	0.41
32:2I:142:LEU:HD11	45:GD:297:LYS:NZ	2.35	0.41
21:2K:354:TRP:HE1	45:GJ:276:ARG:HD3	1.84	0.41
22:2L:826:LYS:NZ	35:5R:177:VAL:CG2	2.83	0.41
11:2Q:53:ASN:ND2	44:AE:400:ALA:HA	2.35	0.41
26:2R:505:TYR:HB2	44:EG:39:ASP:O	2.19	0.41
13:2T:82:ALA:HB2	44:MG:414:GLU:HG2	2.03	0.41
14:2U:191:ASN:O	45:WJ:78:ALA:HB1	2.21	0.41
27:2W:189:ARG:NH1	44:KM:48:ALA:HB3	2.34	0.41
27:2W:245:LEU:CA	45:LN:276:ARG:HH21	2.33	0.41
2:3A:154:ASN:ND2	35:6R:80:ARG:O	2.45	0.41
34:4F:34:VAL:N	45:HJ:41:ASP:OD2	2.51	0.41
37:5A:122:ASN:HB2	45:ND:19:LYS:HE3	2.03	0.41
37:5D:25:ASP:OD1	45:KN:389:PHE:O	2.38	0.41
38:5E:181:TYR:CE2	45:KD:161:ASP:HB3	2.55	0.41
38:5F:44:ARG:O	44:OC:373:ARG:NH2	2.45	0.41
38:5F:123:ARG:HH11	44:OE:370:LYS:NZ	2.19	0.41
38:5F:140:ASN:HA	45:OH:279:GLN:OE1	2.20	0.41
39:5J:155:TYR:OH	44:JI:422:ARG:CB	2.68	0.41
39:5K:25:VAL:CA	39:5K:28:LYS:HZ3	2.33	0.41
11:5Q:73:LEU:HD22	11:5Q:169:ASP:CG	2.39	0.41
35:5R:89:ASP:OD2	44:AI:370:LYS:HE3	2.20	0.41
35:5R:256:LEU:HD13	35:5R:356:THR:CG2	2.51	0.41
35:5R:425:ARG:HD2	44:EI:40:LYS:CE	2.51	0.41
35:5R:550:VAL:HG23	35:5R:551:LEU:N	2.35	0.41
40:6F:92:LYS:HG3	40:6F:93:LYS:H	1.86	0.41
41:6G:89:PHE:CE2	44:UK:89:PRO:HB2	2.55	0.41
41:6G:124:GLU:HA	41:6G:128:LYS:CB	2.47	0.41
11:6Q:32:GLY:HA3	11:6Q:51:GLY:HA3	2.02	0.41
11:6Q:48:GLU:HG3	11:6Q:161:ARG:CG	2.45	0.41
35:6R:128:HIS:HE1	44:AM:45:GLY:H	1.67	0.41
35:6R:554:LYS:HE2	35:6R:560:ARG:HH22	1.82	0.41
35:7R:88:TYR:CG	35:7R:122:LEU:HD21	2.54	0.41
35:7R:220:ILE:HG23	35:7R:221:PRO:HD2	2.02	0.41
35:7R:311:LYS:CD	35:7R:329:TYR:HE1	2.33	0.41
44:AA:29:GLY:HA2	44:AA:42:ILE:HD11	2.02	0.41
44:AA:98:ASP:O	44:AA:105:ARG:NH1	2.53	0.41
44:AA:312:TYR:O	44:AA:344:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AC:23:LEU:C	44:AC:23:LEU:HD23	2.41	0.41
44:AC:209:ILE:HG21	44:AC:227:LEU:CD1	2.49	0.41
44:AC:434:GLU:O	44:AC:437:ILE:HG22	2.20	0.41
45:AD:163:ILE:HG13	45:AD:164:MET:N	2.33	0.41
45:AD:228:LEU:CD2	45:AD:273:LEU:HD21	2.46	0.41
45:AF:167:PHE:CD1	45:AF:233:MET:HE1	2.55	0.41
45:AF:330:MET:O	45:AF:333:VAL:HG12	2.20	0.41
44:AG:14:ILE:HG12	44:AG:75:ILE:HD11	2.03	0.41
45:AH:257:LEU:HD21	45:AH:314:SER:HB2	2.01	0.41
45:AH:321:MET:HE1	45:AH:326:VAL:HG22	2.03	0.41
44:AI:224:TYR:CE2	45:AJ:246:LEU:HD11	2.55	0.41
44:AI:319:TYR:HE2	44:AI:328:VAL:HG13	1.85	0.41
44:AK:105:ARG:NH1	45:AL:251:ARG:HD2	2.36	0.41
44:AK:384:ILE:HG23	44:AK:432:TYR:CE2	2.55	0.41
44:AM:204:LEU:CD2	44:AM:231:ILE:HD13	2.49	0.41
45:AN:68:LEU:HD12	45:AN:112:LEU:HD13	2.03	0.41
44:BC:103:PHE:N	44:BC:408:TYR:HE2	2.19	0.41
44:BC:264:ARG:NE	44:BC:264:ARG:HA	2.36	0.41
45:BD:52:ASN:HD21	45:BD:86:ARG:NH2	2.18	0.41
45:BD:117:LEU:O	45:BD:120:VAL:HB	2.21	0.41
45:BF:21:TRP:CE3	45:BF:61:PRO:HB3	2.54	0.41
45:BF:272:PRO:HB3	45:BF:289:LEU:CD2	2.50	0.41
45:BF:286:VAL:N	45:BF:287:PRO:CD	2.84	0.41
45:BF:299:MET:HG3	45:BF:305:PRO:HG3	2.03	0.41
44:BG:344:VAL:HG21	44:BG:346:TRP:NE1	2.36	0.41
44:BG:370:LYS:HG3	44:BG:370:LYS:O	2.21	0.41
45:BH:135:ILE:O	45:BH:166:THR:HA	2.21	0.41
45:BH:202:ILE:HG23	45:BH:207:LEU:HD21	2.03	0.41
45:BH:239:CYS:HA	45:BH:354:CYS:SG	2.61	0.41
45:BJ:149:THR:OG1	45:BJ:191:GLN:HB3	2.21	0.41
45:BJ:370:ASN:OD1	45:BJ:422:TYR:OH	2.31	0.41
44:BK:257:THR:HG22	45:BN:397:TRP:NE1	2.36	0.41
44:BM:13:GLY:HA2	44:BM:16:VAL:CG1	2.51	0.41
44:BM:194:LEU:HD13	44:BM:267:PHE:HZ	1.85	0.41
45:BN:133:PHE:N	45:BN:164:MET:HE1	2.31	0.41
45:BN:319:GLY:N	45:BN:354:CYS:O	2.52	0.41
44:CA:66:VAL:HG22	44:CA:68:LEU:HD12	2.02	0.41
44:CA:101:ASN:HA	44:CA:144:GLY:CA	2.51	0.41
44:CA:265:ILE:HG23	44:CA:432:TYR:CE1	2.56	0.41
45:CB:256:ASN:ND2	44:CC:180:ALA:HA	2.29	0.41
44:CC:267:PHE:CD2	44:CC:388:PHE:HZ	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CD:7:ILE:HB	45:CD:135:ILE:CD1	2.51	0.41
45:CD:15:GLN:O	45:CD:18:ALA:HB3	2.20	0.41
45:CD:192:LEU:HD12	45:CD:196:ALA:HB2	2.02	0.41
45:CD:294:PHE:HD2	45:CD:333:VAL:HG21	1.83	0.41
45:CF:345:ILE:CG1	44:CG:398:MET:HE3	2.44	0.41
44:CG:349:THR:CG2	45:CH:179:VAL:HA	2.37	0.41
45:CH:24:ILE:CG1	45:CH:233:MET:CE	2.98	0.41
45:CH:62:ARG:NH1	45:CH:62:ARG:CB	2.83	0.41
45:CH:391:ARG:HD2	45:CH:391:ARG:HA	1.82	0.41
44:CI:320:ARG:HB3	44:CI:356:ASN:HB3	2.02	0.41
44:CI:326:LYS:HD3	45:CJ:212:PHE:CZ	2.55	0.41
45:CJ:232:ALA:HB1	45:CJ:268:ILE:CD1	2.50	0.41
45:CJ:284:LEU:CB	45:CJ:362:LYS:HD2	2.50	0.41
44:CK:48:ALA:HA	44:CK:243:ARG:HB2	2.01	0.41
44:CK:220:GLU:O	44:CK:221:ARG:HG3	2.21	0.41
44:CK:276:ILE:HG23	44:CK:281:ALA:CB	2.46	0.41
45:CL:313:ALA:CB	45:CL:369:GLY:HA2	2.51	0.41
45:CL:339:SER:HB3	45:CL:340:TYR:HE1	1.85	0.41
44:DA:103:PHE:HA	44:DA:144:GLY:C	2.41	0.41
44:DA:103:PHE:HD1	44:DA:147:SER:OG	2.02	0.41
44:DA:213:CYS:HB3	44:DA:217:LEU:HD12	2.03	0.41
44:DA:227:LEU:O	44:DA:230:LEU:HB2	2.19	0.41
44:DA:256:GLN:HE21	44:DA:257:THR:HG23	1.78	0.41
44:DC:137:VAL:HG13	44:DC:168:GLY:HA2	2.00	0.41
44:DE:123:ARG:HA	44:DE:161:TYR:OH	2.21	0.41
45:DF:353:ILE:HD12	45:DF:353:ILE:N	2.36	0.41
44:DG:238:LEU:HD23	44:DG:238:LEU:C	2.40	0.41
45:DH:130:LEU:HB3	45:DH:162:ARG:HD2	2.01	0.41
45:DH:256:ASN:HD21	44:DI:180:ALA:CB	2.34	0.41
45:DJ:46:ARG:HH11	45:DJ:46:ARG:CG	2.33	0.41
45:DJ:309:ARG:N	45:DJ:372:THR:OG1	2.44	0.41
45:DJ:428:ALA:HB1	44:DK:401:LYS:NZ	2.35	0.41
44:DM:7:ILE:HD11	44:DM:122:ILE:HD11	2.01	0.41
44:DM:22:GLU:CG	44:DM:83:TYR:HE2	2.31	0.41
44:DM:326:LYS:HD2	44:DM:327:ASP:N	2.35	0.41
45:DN:187:LEU:HD11	45:DN:408:PHE:CZ	2.55	0.41
45:DN:212:PHE:O	45:DN:216:LYS:HA	2.21	0.41
45:DN:222:TYR:O	45:DN:225:LEU:HB2	2.20	0.41
45:DN:318:ARG:HD3	45:DN:358:PRO:CD	2.51	0.41
45:DN:385:PHE:O	45:DN:389:PHE:HB2	2.19	0.41
44:EA:320:ARG:O	44:EA:320:ARG:CG	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:258:ASN:HA	45:ED:179:VAL:CG2	2.51	0.41
44:EC:258:ASN:HD21	44:EC:352:LYS:HD3	1.84	0.41
44:EE:16:VAL:HG23	44:EE:17:GLY:N	2.36	0.41
44:EE:30:ILE:HG23	44:EE:36:MET:HE1	2.02	0.41
44:EE:51:THR:HG21	44:EE:243:ARG:CB	2.51	0.41
44:EE:207:GLU:HA	44:EE:210:TYR:CE2	2.55	0.41
44:EE:276:ILE:CG1	44:EE:281:ALA:HA	2.50	0.41
44:EE:292:THR:HG23	44:EE:293:ASN:N	2.35	0.41
44:EE:422:ARG:HA	44:EE:422:ARG:HD3	1.92	0.41
45:EF:183:TYR:O	45:EF:186:THR:HG22	2.21	0.41
45:EF:221:THR:CG2	45:EF:222:TYR:N	2.82	0.41
45:EF:286:VAL:N	45:EF:287:PRO:CD	2.83	0.41
44:EG:209:ILE:HG21	44:EG:227:LEU:HB3	2.01	0.41
44:EG:294:SER:O	44:EG:297:GLU:HB2	2.20	0.41
45:EH:113:ILE:O	45:EH:116:VAL:HG12	2.21	0.41
44:EI:169:PHE:CE1	44:EI:202:VAL:HG21	2.56	0.41
44:EI:288:VAL:CG2	44:EI:327:ASP:HB3	2.42	0.41
45:EJ:135:ILE:HB	45:EJ:166:THR:CG2	2.31	0.41
44:EK:96:LYS:HE2	44:EK:96:LYS:HA	2.03	0.41
44:EK:209:ILE:HG22	44:EK:227:LEU:CD2	2.51	0.41
45:EL:44:LEU:HD23	45:EL:47:ILE:CD1	2.51	0.41
45:EL:86:ARG:NH1	45:FL:278:SER:HA	2.34	0.41
45:EL:324:LYS:HE2	44:EM:224:TYR:CE1	2.56	0.41
44:EM:136:LEU:HD23	44:EM:167:LEU:HB2	2.02	0.41
44:EM:328:VAL:O	44:EM:332:ILE:HG12	2.21	0.41
45:EN:70:PRO:O	45:EN:74:ASP:HB2	2.21	0.41
45:EN:124:ALA:HB1	45:EN:130:LEU:HD22	2.01	0.41
44:FA:185:TYR:CE1	44:FA:398:MET:HB3	2.56	0.41
45:FB:372:THR:HG22	45:FB:422:TYR:CD2	2.55	0.41
44:FC:14:ILE:HD11	44:FC:75:ILE:HD11	2.03	0.41
44:FC:35:GLN:OE1	44:FC:60:LYS:N	2.53	0.41
45:FD:72:THR:HG23	45:FD:73:MET:N	2.36	0.41
44:FE:230:LEU:CD2	44:FE:302:MET:HE3	2.50	0.41
44:FE:267:PHE:CD2	44:FE:388:PHE:HZ	2.39	0.41
44:FG:74:VAL:O	44:FG:78:VAL:HG23	2.20	0.41
44:FG:93:ILE:HD12	44:FG:93:ILE:H	1.85	0.41
44:FG:344:VAL:HG12	44:FG:345:ASP:N	2.35	0.41
44:FG:437:ILE:O	44:FG:437:ILE:HG13	2.20	0.41
44:FI:1:MET:C	44:FI:2:ARG:HD3	2.41	0.41
44:FI:106:GLY:O	44:FI:148:GLY:HA3	2.20	0.41
44:FI:244:PHE:CE2	44:FI:358:GLN:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:246:GLY:HA3	44:FI:249:ASN:OD1	2.19	0.41
44:FI:250:VAL:HG11	44:FI:318:MET:HE1	2.03	0.41
44:FI:270:SER:HB2	44:FI:377:MET:O	2.20	0.41
45:FJ:2:ARG:O	45:FJ:2:ARG:HG3	2.20	0.41
45:FL:50:TYR:CD2	45:FL:241:ARG:HD3	2.55	0.41
45:FL:138:SER:HA	45:FL:169:VAL:CG2	2.51	0.41
45:FL:306:ARG:HB2	45:FL:340:TYR:HE1	1.82	0.41
44:FM:49:PHE:O	44:FM:53:PHE:HD1	2.02	0.41
44:FM:118:CYS:SG	44:FM:153:LEU:HD22	2.60	0.41
45:FN:2:ARG:HA	45:FN:131:GLN:HB2	2.01	0.41
44:GA:70:LEU:HD13	44:GA:110:ILE:CD1	2.50	0.41
44:GA:165:SER:O	44:GA:166:LYS:HG3	2.20	0.41
44:GA:311:LYS:CG	44:GA:312:TYR:N	2.83	0.41
44:GA:408:TYR:O	44:GA:413:MET:HE1	2.20	0.41
44:GC:276:ILE:HD11	44:GC:280:LYS:HG3	2.02	0.41
45:GD:38:GLY:HA3	45:GD:43:GLN:OE1	2.21	0.41
45:GD:68:LEU:HG	45:GD:96:GLY:CA	2.51	0.41
45:GD:91:VAL:HG23	45:GD:91:VAL:O	2.20	0.41
45:GD:310:TYR:HA	45:GD:371:SER:CB	2.50	0.41
44:GE:318:MET:SD	44:GE:354:GLY:HA3	2.60	0.41
45:GF:49:VAL:CB	45:GF:241:ARG:HG2	2.50	0.41
45:GF:254:ALA:O	45:GF:258:ILE:HD13	2.20	0.41
45:GF:294:PHE:CE1	45:GF:333:VAL:HG21	2.55	0.41
44:GG:244:PHE:CD2	44:GG:358:GLN:HB2	2.56	0.41
44:GG:407:TRP:HH2	45:GH:254:ALA:HB1	1.85	0.41
45:GH:112:LEU:HB3	45:GH:147:MET:CE	2.50	0.41
44:GI:263:PRO:HB2	44:GI:264:ARG:CZ	2.51	0.41
45:GJ:163:ILE:HG13	45:GJ:163:ILE:O	2.19	0.41
44:GK:102:ASN:OD1	44:GK:408:TYR:HE2	2.03	0.41
44:GK:141:VAL:HG12	44:GK:171:ILE:O	2.19	0.41
44:GK:287:SER:HB3	44:GK:290:GLU:CG	2.48	0.41
44:GK:340:THR:HG23	44:GK:341:ILE:N	2.35	0.41
45:GL:189:VAL:HG11	45:GL:415:MET:HE2	1.99	0.41
45:GL:314:SER:CB	45:GL:350:LYS:H	2.31	0.41
44:GM:229:ARG:O	44:GM:233:GLN:HG2	2.21	0.41
44:GM:229:ARG:O	44:GM:233:GLN:N	2.27	0.41
44:GM:313:MET:HG3	44:GM:346:TRP:HH2	1.86	0.41
45:GN:310:TYR:HA	45:GN:371:SER:HA	2.02	0.41
44:HA:156:ARG:O	44:HA:159:VAL:HG12	2.20	0.41
44:HA:169:PHE:HZ	44:HA:238:LEU:HD13	1.85	0.41
44:HA:242:LEU:CD1	44:HA:252:ILE:HG13	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HB:25:SER:O	45:HB:30:ILE:N	2.53	0.41
45:HB:134:GLN:HA	45:HB:165:GLU:CB	2.50	0.41
45:HB:139:LEU:C	45:HB:145:SER:HB3	2.41	0.41
45:HB:267:MET:HE2	45:HB:299:MET:SD	2.59	0.41
45:HB:342:VAL:CG1	45:HB:348:ASN:HD21	2.34	0.41
44:HC:346:TRP:O	44:HC:346:TRP:HE3	2.04	0.41
44:HE:141:VAL:HG12	44:HE:141:VAL:O	2.21	0.41
44:HE:413:MET:SD	44:HE:417:GLU:HB2	2.59	0.41
45:HF:2:ARG:NH2	45:HF:240:LEU:HD12	2.35	0.41
45:HF:333:VAL:O	45:HF:333:VAL:HG12	2.20	0.41
44:HG:291:ILE:HG13	44:HG:292:THR:H	1.84	0.41
44:HG:428:LEU:HG	44:HG:432:TYR:HE2	1.85	0.41
45:HH:69:GLU:HA	45:HH:70:PRO:HD3	1.90	0.41
45:HH:257:LEU:HA	45:HH:312:THR:HG23	2.01	0.41
45:HH:342:VAL:HG11	45:HH:344:TRP:CE2	2.54	0.41
44:HI:199:ASP:O	44:HI:266:HIS:HB2	2.20	0.41
44:HI:285:GLN:CD	44:HI:287:SER:HB3	2.41	0.41
44:HK:385:ALA:HA	44:HK:388:PHE:CD2	2.55	0.41
45:HL:371:SER:O	45:HL:374:ILE:HD12	2.21	0.41
44:HM:186:ASN:OD1	44:HM:187:SER:N	2.53	0.41
44:HM:235:ILE:CD1	44:HM:238:LEU:HD21	2.49	0.41
44:IA:167:LEU:HG	44:IA:200:VAL:CG2	2.50	0.41
44:IA:279:GLU:OE2	44:IA:280:LYS:HD3	2.20	0.41
45:IB:8:GLN:HB2	45:IB:13:GLY:O	2.20	0.41
45:IB:149:THR:OG1	45:IB:191:GLN:HB3	2.20	0.41
45:IB:156:ARG:HH11	45:IB:164:MET:HE1	1.86	0.41
45:IB:294:PHE:CE1	45:IB:333:VAL:HG21	2.56	0.41
45:IB:372:THR:HA	45:IB:422:TYR:CE2	2.47	0.41
44:IC:195:LEU:HD12	44:IC:266:HIS:NE2	2.35	0.41
44:IC:288:VAL:HG21	44:IC:327:ASP:C	2.41	0.41
45:ID:318:ARG:NH2	45:ID:358:PRO:HB3	2.36	0.41
44:IG:63:PRO:HG2	44:IG:87:PHE:CD1	2.54	0.41
44:IG:311:LYS:N	44:IG:382:THR:OG1	2.53	0.41
45:IH:49:VAL:HG21	45:IH:241:ARG:CD	2.50	0.41
45:IH:86:ARG:NH2	45:IH:87:PRO:HD2	2.36	0.41
45:IH:294:PHE:CE2	45:IH:333:VAL:HG11	2.48	0.41
44:IK:165:SER:C	44:IK:166:LYS:HD3	2.40	0.41
44:IK:181:VAL:O	44:IK:181:VAL:HG22	2.20	0.41
44:IK:205:ASP:CG	44:IK:304:LYS:H	2.19	0.41
44:IK:268:MET:HG3	44:IK:378:ILE:CG2	2.50	0.41
45:IL:289:LEU:HD11	45:IL:363:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IM:88:HIS:HB3	44:IM:91:GLN:CG	2.51	0.41
45:IN:245:GLN:C	45:IN:246:LEU:HD12	2.40	0.41
44:JA:30:ILE:CG2	44:JA:34:GLY:HA2	2.51	0.41
45:JB:21:TRP:O	45:JB:25:SER:OG	2.36	0.41
44:JC:326:LYS:HZ1	45:JF:220:PRO:HD2	1.84	0.41
44:JE:76:ASP:HA	44:JE:79:ARG:CD	2.48	0.41
44:JG:247:ALA:HB1	45:JJ:222:TYR:HD2	1.82	0.41
44:JG:420:GLU:CG	44:NG:308:ARG:HH11	2.32	0.41
45:JH:22:GLU:OE1	45:JH:81:PHE:CD2	2.74	0.41
45:JH:162:ARG:N	45:JH:162:ARG:HD3	2.35	0.41
44:JI:253:THR:HG23	44:JI:254:GLU:CD	2.40	0.41
45:JJ:25:SER:CB	45:JJ:30:ILE:HB	2.49	0.41
45:JJ:143:THR:HG22	48:JJ:501:GDP:PB	2.61	0.41
45:JJ:209:ASP:OD1	45:JJ:210:ILE:N	2.53	0.41
45:JL:263:LEU:HD12	45:JL:263:LEU:N	2.35	0.41
45:JL:318:ARG:NH1	45:JL:358:PRO:HD3	2.36	0.41
45:JL:330:MET:N	45:JL:330:MET:HE3	2.34	0.41
45:JN:317:PHE:CE2	45:JN:326:VAL:HG13	2.55	0.41
44:KA:362:VAL:O	44:KA:362:VAL:HG23	2.21	0.41
44:KA:377:MET:HE2	44:KA:379:SER:HB3	1.96	0.41
45:KB:304:ASP:HB3	45:KB:307:HIS:CE1	2.55	0.41
44:KC:64:ARG:CG	44:KC:125:LEU:HD11	2.48	0.41
45:KF:286:VAL:CG1	45:KF:325:GLU:HG3	2.51	0.41
44:KG:276:ILE:HD11	44:KG:280:LYS:CG	2.50	0.41
44:KI:3:GLU:HB3	44:KI:64:ARG:NH1	2.36	0.41
44:KI:387:VAL:HG23	44:KI:388:PHE:N	2.35	0.41
44:KK:202:VAL:HG22	44:KK:268:MET:HB2	2.01	0.41
44:KM:30:ILE:HG12	44:KM:36:MET:CG	2.50	0.41
44:KM:169:PHE:HZ	44:KM:238:LEU:CD1	2.33	0.41
45:KN:246:LEU:HB2	45:KN:353:ILE:CD1	2.51	0.41
45:LB:173:PRO:HD2	45:LB:174:LYS:HZ3	1.85	0.41
44:LC:158:SER:CB	44:LC:197:HIS:HD2	2.33	0.41
44:LC:184:PRO:HG3	44:LC:398:MET:HE2	2.03	0.41
44:LC:268:MET:HA	44:LC:384:ILE:HD11	2.01	0.41
45:LD:117:LEU:HA	45:LD:120:VAL:HG12	2.03	0.41
45:LD:262:ARG:HE	45:LD:263:LEU:CD1	2.33	0.41
45:LD:264:HIS:O	45:LD:265:PHE:HD1	2.03	0.41
44:LE:244:PHE:CE2	44:LE:358:GLN:OE1	2.73	0.41
45:LF:217:LEU:C	45:LF:217:LEU:HD12	2.40	0.41
45:LF:342:VAL:CG1	45:LF:343:GLU:N	2.83	0.41
44:LG:111:GLY:HA2	44:LG:149:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LH:228:LEU:HD11	45:LH:273:LEU:HD11	2.03	0.41
45:LL:303:ALA:CB	45:LL:376:GLU:HB2	2.47	0.41
44:LM:217:LEU:CD1	44:LM:277:SER:HB3	2.37	0.41
44:LM:278:ALA:N	44:LM:369:ALA:HB2	2.36	0.41
44:LM:426:ALA:HA	44:LM:429:GLU:OE2	2.20	0.41
45:LN:173:PRO:HB3	45:LN:384:GLN:OE1	2.20	0.41
44:MA:132:LEU:HD23	44:MA:134:GLY:N	2.35	0.41
45:MB:325:GLU:HG2	45:MB:329:GLN:HE22	1.85	0.41
45:MB:345:ILE:HG21	45:MB:348:ASN:HD21	1.83	0.41
45:MD:263:LEU:HD12	45:MD:263:LEU:N	2.35	0.41
44:MG:260:VAL:HG23	45:MJ:397:TRP:HE1	1.85	0.41
44:MG:265:ILE:HG23	44:MG:432:TYR:CE1	2.55	0.41
44:MI:155:GLU:HG2	44:MI:197:HIS:CD2	2.56	0.41
44:MI:288:VAL:HG11	44:MI:327:ASP:CG	2.40	0.41
45:MJ:257:LEU:CD2	45:MJ:368:VAL:HG12	2.50	0.41
44:MK:69:ASP:OD2	44:MK:74:VAL:HG11	2.20	0.41
45:ML:246:LEU:HD23	45:ML:246:LEU:O	2.20	0.41
44:NA:232:ALA:CA	44:NA:235:ILE:HG12	2.49	0.41
45:NB:262:ARG:HD3	45:NB:421:GLU:OE1	2.20	0.41
45:NB:374:ILE:HG22	45:NB:422:TYR:HH	1.85	0.41
44:NC:371:VAL:HG22	44:NC:372:MET:H	1.83	0.41
45:ND:167:PHE:HE1	45:ND:200:MET:SD	2.42	0.41
45:ND:302:ALA:HB3	45:ND:377:MET:CE	2.51	0.41
45:NF:124:ALA:HB1	45:NF:130:LEU:CD1	2.50	0.41
45:NF:260:PHE:CB	45:NF:261:PRO:HD2	2.40	0.41
44:NG:60:LYS:HD3	44:OG:283:HIS:NE2	2.35	0.41
45:NH:68:LEU:CD2	45:NH:147:MET:HG3	2.49	0.41
44:NI:318:MET:HE1	44:NI:354:GLY:HA3	2.01	0.41
44:NI:326:LYS:HG3	44:NI:327:ASP:H	1.81	0.41
44:NI:371:VAL:HG22	44:NI:372:MET:H	1.85	0.41
45:NJ:286:VAL:N	45:NJ:287:PRO:CD	2.83	0.41
45:NL:11:GLN:CG	45:NL:72:THR:HG21	2.50	0.41
45:NL:101:TRP:CZ3	45:NL:187:LEU:HB2	2.55	0.41
45:NL:101:TRP:CZ3	45:NL:187:LEU:CB	3.03	0.41
45:NL:417:ASP:O	45:NL:421:GLU:HG2	2.21	0.41
44:NM:315:CYS:CB	44:NM:351:PHE:CD1	3.03	0.41
45:NN:68:LEU:O	45:NN:96:GLY:N	2.54	0.41
45:NN:143:THR:O	45:NN:147:MET:HE2	2.19	0.41
45:NN:148:GLY:O	45:NN:152:ILE:HG12	2.19	0.41
44:OA:89:PRO:CG	44:PA:280:LYS:HD2	2.50	0.41
44:OA:142:GLY:O	46:OA:501:GTP:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OA:222:PRO:HG2	45:OB:324:LYS:HB3	2.03	0.41
44:OA:229:ARG:HH12	44:OA:363:VAL:HB	1.85	0.41
44:OA:246:GLY:N	44:OA:249:ASN:OD1	2.53	0.41
44:OA:319:TYR:CZ	44:OA:375:VAL:HG21	2.55	0.41
44:OA:358:GLN:CD	44:OA:359:PRO:HD2	2.40	0.41
44:OA:390:ARG:HG3	44:OA:391:LEU:N	2.36	0.41
45:OB:200:MET:HE1	45:OB:266:PHE:CD2	2.54	0.41
44:OE:88:HIS:CE1	44:OE:90:GLU:CG	3.02	0.41
44:OG:142:GLY:HA2	44:OG:186:ASN:HB2	2.03	0.41
44:OG:261:PRO:HG3	44:OG:313:MET:SD	2.60	0.41
45:OH:193:VAL:HG13	45:OH:194:GLU:N	2.36	0.41
45:OH:238:CYS:SG	45:OH:239:CYS:N	2.93	0.41
45:OH:374:ILE:HD11	45:OH:422:TYR:CZ	2.55	0.41
44:OI:310:GLY:N	44:OI:383:ALA:HB2	2.34	0.41
45:OJ:64:ILE:HG23	45:OJ:89:ASN:O	2.19	0.41
45:OJ:169:VAL:HG22	45:OJ:202:ILE:CG2	2.51	0.41
44:OM:174:SER:OG	44:OM:207:GLU:HB2	2.21	0.41
44:OM:256:GLN:HA	44:OM:260:VAL:CG2	2.49	0.41
45:ON:4:ILE:HG22	45:ON:5:VAL:O	2.20	0.41
45:ON:217:LEU:HD23	45:ON:217:LEU:H	1.86	0.41
45:ON:270:PHE:CD2	45:ON:273:LEU:HD11	2.54	0.41
45:PB:198:GLU:HA	45:PB:264:HIS:HB2	2.03	0.41
44:PC:102:ASN:HB3	44:PC:105:ARG:CG	2.50	0.41
44:PC:166:LYS:HE2	44:PC:166:LYS:HB3	1.59	0.41
44:PC:212:ILE:HD11	44:PC:300:ASN:HA	2.02	0.41
44:PC:212:ILE:HD13	44:PC:215:ARG:NH2	2.36	0.41
44:PC:294:SER:HA	44:PC:297:GLU:CG	2.51	0.41
45:PD:116:VAL:O	45:PD:119:VAL:HG12	2.20	0.41
44:PE:55:GLU:HG3	44:PE:57:GLY:H	1.85	0.41
44:PE:219:ILE:CG2	44:PE:222:PRO:HG3	2.50	0.41
44:PI:381:SER:C	44:PI:383:ALA:H	2.23	0.41
44:PI:428:LEU:O	44:PI:431:ASP:HB2	2.20	0.41
45:PJ:256:ASN:HD22	45:PJ:350:LYS:CD	2.33	0.41
44:PK:198:THR:HG22	44:PK:199:ASP:H	1.86	0.41
44:PK:334:THR:O	44:PK:337:THR:HB	2.20	0.41
45:PL:32:PRO:CG	45:PL:81:PHE:HE1	2.31	0.41
45:PL:221:THR:O	45:PL:224:ASP:HB2	2.20	0.41
44:PM:8:HIS:CE1	44:PM:17:GLY:HA3	2.56	0.41
44:PM:110:ILE:O	44:PM:113:GLU:HG3	2.21	0.41
44:PM:175:PRO:HB3	44:PM:390:ARG:NE	2.35	0.41
44:PM:198:THR:HG22	44:PM:200:VAL:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PM:277:SER:O	44:PM:281:ALA:N	2.54	0.41
44:PM:370:LYS:O	44:PM:370:LYS:HG3	2.20	0.41
45:PN:403:MET:HE1	45:PN:407:GLU:CD	2.40	0.41
44:QA:238:LEU:HD23	44:QA:238:LEU:O	2.20	0.41
44:QA:332:ILE:CA	44:QA:335:ILE:HG22	2.46	0.41
45:QB:156:ARG:NE	45:QB:164:MET:HE3	2.35	0.41
45:QB:218:THR:HG23	45:QB:219:THR:N	2.35	0.41
44:QC:119:LEU:HD13	44:QC:122:ILE:CG1	2.43	0.41
45:QD:73:MET:CE	45:QD:90:PHE:HB3	2.48	0.41
45:QD:304:ASP:OD2	45:QD:307:HIS:NE2	2.53	0.41
45:QF:318:ARG:CB	45:QF:364:ALA:HB3	2.30	0.41
44:QG:92:LEU:HD23	44:QG:92:LEU:HA	1.89	0.41
45:QH:208:TYR:O	45:QH:212:PHE:HD2	2.03	0.41
44:QI:3:GLU:HG2	44:QI:51:THR:O	2.21	0.41
45:QJ:255:VAL:HA	44:QK:407:TRP:CE3	2.55	0.41
44:QK:319:TYR:HB2	44:QK:354:GLY:O	2.21	0.41
45:QL:2:ARG:NH2	44:QM:73:THR:OG1	2.54	0.41
45:QL:86:ARG:HD2	45:RL:281:TYR:CD2	2.55	0.41
45:QL:272:PRO:HB3	45:QL:282:ARG:HH22	1.86	0.41
44:QM:363:VAL:O	44:QM:363:VAL:HG13	2.19	0.41
44:RA:30:ILE:HG12	44:RA:36:MET:CE	2.48	0.41
44:RA:103:PHE:HD2	44:RA:147:SER:OG	2.03	0.41
45:RB:206:ALA:O	45:RB:210:ILE:N	2.49	0.41
44:RC:9:VAL:HG23	44:RC:68:LEU:CB	2.50	0.41
44:RC:225:THR:HA	44:RC:228:ASN:CB	2.43	0.41
44:RC:319:TYR:HE2	44:RC:328:VAL:HG22	1.83	0.41
45:RD:322:SER:N	44:RE:221:ARG:HH21	2.19	0.41
44:RE:331:SER:O	44:RE:335:ILE:HD12	2.21	0.41
45:RF:101:TRP:NE1	45:RF:146:GLY:HA2	2.35	0.41
45:RF:316:LEU:HG	45:RF:352:SER:HB2	2.02	0.41
44:RG:113:GLU:O	44:RG:114:ILE:HD13	2.20	0.41
44:RG:258:ASN:CG	45:RH:179:VAL:HG22	2.41	0.41
44:RI:261:PRO:HA	45:RJ:394:PHE:CE1	2.55	0.41
44:RK:5:ILE:HB	44:RK:135:PHE:HE1	1.80	0.41
44:RK:311:LYS:O	44:RK:381:SER:HB2	2.20	0.41
44:RK:431:ASP:O	44:RK:435:VAL:N	2.36	0.41
45:RL:70:PRO:CD	45:RL:71:GLY:N	2.82	0.41
44:RM:315:CYS:HA	44:RM:379:SER:HA	2.02	0.41
45:RN:187:LEU:O	45:RN:190:HIS:HB3	2.20	0.41
45:RN:221:THR:O	45:RN:224:ASP:HB2	2.21	0.41
44:SA:145:THR:HG22	46:SA:501:GTP:PB	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:171:PRO:HG3	45:SB:181:GLU:HB3	2.03	0.41
45:SB:282:ARG:NE	45:SB:282:ARG:HA	2.36	0.41
45:SB:317:PHE:HD2	45:SB:326:VAL:CG2	2.34	0.41
45:SB:328:GLU:HG3	45:SB:329:GLN:N	2.36	0.41
44:SC:104:ALA:HB2	44:SC:413:MET:HE2	2.01	0.41
44:SC:182:VAL:CG2	44:SC:185:TYR:HD2	2.33	0.41
44:SC:273:ALA:C	44:SC:375:VAL:HG12	2.41	0.41
45:SD:204:ASN:O	45:SD:207:LEU:HB2	2.20	0.41
44:SE:76:ASP:HA	44:SE:79:ARG:CG	2.45	0.41
44:SE:103:PHE:HB2	44:SE:186:ASN:CG	2.39	0.41
44:SE:278:ALA:HA	44:SE:281:ALA:HB3	2.03	0.41
44:SE:329:ASN:OD1	45:SF:208:TYR:HE2	2.04	0.41
45:SF:34:GLY:O	45:SF:58:ARG:HA	2.20	0.41
44:SG:102:ASN:CG	44:SG:411:GLU:HG3	2.40	0.41
44:SG:206:ASN:OD1	44:SG:207:GLU:N	2.54	0.41
44:SG:206:ASN:O	44:SG:207:GLU:C	2.58	0.41
44:SG:270:SER:HB3	44:SG:378:ILE:CD1	2.45	0.41
45:SH:178:THR:HG22	45:SH:180:VAL:HG12	2.01	0.41
44:SI:103:PHE:CE2	44:SI:189:LEU:HD13	2.55	0.41
44:SI:137:VAL:CG1	44:SI:168:GLY:HA3	2.50	0.41
44:SK:319:TYR:CE1	44:SK:375:VAL:HG11	2.54	0.41
45:SN:173:PRO:CG	45:SN:380:ARG:HD3	2.47	0.41
45:SN:210:ILE:HG23	45:SN:214:THR:OG1	2.19	0.41
44:TA:8:HIS:CD2	44:TA:17:GLY:HA3	2.55	0.41
44:TC:5:ILE:CG2	44:TC:7:ILE:HD11	2.49	0.41
45:TD:86:ARG:HH22	45:UD:280:GLN:N	2.19	0.41
45:TD:240:LEU:HD12	45:TD:249:ASP:HB2	2.02	0.41
45:TD:272:PRO:C	45:TD:273:LEU:HG	2.40	0.41
44:TE:231:ILE:O	44:TE:235:ILE:HD12	2.21	0.41
44:TE:248:LEU:CD2	44:TE:354:GLY:HA2	2.43	0.41
44:TG:271:SER:CB	44:TG:301:MET:HA	2.50	0.41
44:TI:153:LEU:O	44:TI:157:LEU:N	2.38	0.41
44:TI:422:ARG:O	44:TI:426:ALA:HB2	2.20	0.41
45:TJ:150:LEU:O	45:TJ:150:LEU:HD23	2.20	0.41
44:TK:81:GLY:O	44:TK:84:ARG:HG2	2.20	0.41
45:TL:251:ARG:HG2	44:TM:100:ALA:O	2.20	0.41
44:TM:2:ARG:HB2	44:TM:133:GLN:OE1	2.21	0.41
44:TM:75:ILE:HG21	44:TM:92:LEU:HB3	2.01	0.41
44:TM:88:HIS:H	44:TM:91:GLN:CD	2.23	0.41
44:TM:326:LYS:HD2	44:TM:327:ASP:N	2.34	0.41
45:TN:28:HIS:ND1	45:TN:43:GLN:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:155:GLU:O	44:UA:159:VAL:HG12	2.20	0.41
44:UA:171:ILE:HA	44:UA:204:LEU:HB2	2.01	0.41
44:UA:254:GLU:CD	44:UA:352:LYS:HE2	2.40	0.41
45:UB:238:CYS:HB2	45:UB:318:ARG:NE	2.35	0.41
44:UC:89:PRO:HG3	44:VA:283:HIS:CE1	2.56	0.41
44:UC:114:ILE:O	44:UC:114:ILE:HG22	2.20	0.41
44:UC:259:LEU:HD11	44:UC:316:SER:CB	2.50	0.41
45:UD:60:VAL:HA	45:UD:61:PRO:HD3	1.91	0.41
45:UD:117:LEU:HG	45:UD:121:ARG:NH2	2.19	0.41
45:UD:274:THR:HG23	45:UD:279:GLN:CB	2.41	0.41
44:UE:408:TYR:HB3	44:UE:413:MET:HE2	2.02	0.41
44:UG:70:LEU:HD11	44:UG:149:LEU:CD2	2.51	0.41
44:UG:257:THR:HG23	44:UG:258:ASN:OD1	2.21	0.41
45:UH:136:THR:HG22	45:UH:233:MET:HE3	2.03	0.41
45:UH:204:ASN:OD1	48:UH:501:GDP:O2'	2.39	0.41
45:UH:252:LYS:HA	44:UI:100:ALA:HB1	2.02	0.41
45:UH:323:THR:HG21	45:UH:353:ILE:CG2	2.40	0.41
44:UI:126:ALA:HB2	44:UI:161:TYR:OH	2.19	0.41
44:UI:280:LYS:O	44:UI:280:LYS:CG	2.68	0.41
45:UJ:226:ASN:ND2	48:UJ:501:GDP:HN1	2.18	0.41
44:UK:166:LYS:HE2	44:UK:166:LYS:HA	2.03	0.41
44:UK:353:VAL:CG1	45:UL:177:ASP:HB3	2.51	0.41
44:UK:387:VAL:HA	44:UK:390:ARG:CG	2.49	0.41
45:UL:139:LEU:HA	45:UL:145:SER:HB3	2.01	0.41
44:UM:356:ASN:OD1	44:UM:357:TYR:N	2.53	0.41
45:UN:296:ALA:HB3	45:UN:306:ARG:HH12	1.85	0.41
44:VA:5:ILE:HD12	44:VA:135:PHE:HE1	1.84	0.41
44:VA:71:GLU:OE1	44:VA:73:THR:CB	2.68	0.41
44:VA:221:ARG:NH1	45:VB:325:GLU:N	2.64	0.41
44:VC:204:LEU:HD13	44:VC:231:ILE:HD11	2.02	0.41
44:VC:372:MET:HA	44:VC:372:MET:CE	2.50	0.41
45:VD:180:VAL:O	45:VD:180:VAL:HG22	2.20	0.41
44:VE:51:THR:CG2	44:VE:242:LEU:HD23	2.50	0.41
45:VF:271:ALA:HB2	45:VF:298:ASN:HD21	1.84	0.41
44:VG:268:MET:HB3	44:VG:380:ASN:CB	2.46	0.41
44:VG:332:ILE:HG22	44:VG:336:LYS:HE2	2.02	0.41
45:VH:252:LYS:HE3	45:VH:350:LYS:NZ	2.35	0.41
45:VH:379:LYS:O	45:VH:382:ALA:HB3	2.20	0.41
44:VI:200:VAL:CG2	44:VI:256:GLN:HG3	2.50	0.41
44:VI:260:VAL:HG23	44:VI:265:ILE:O	2.21	0.41
44:VI:263:PRO:O	44:VI:266:HIS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VI:298:PRO:O	44:VI:301:MET:HG2	2.21	0.41
44:VK:122:ILE:HG21	44:VK:157:LEU:HD21	2.02	0.41
44:VK:210:TYR:HE1	44:VK:227:LEU:HD11	1.84	0.41
45:VL:309:ARG:CZ	45:VL:342:VAL:HA	2.49	0.41
45:VL:380:ARG:O	45:VL:384:GLN:HB2	2.20	0.41
45:VN:66:MET:SD	45:VN:67:ASP:N	2.94	0.41
45:VN:99:ASN:OD1	45:VN:142:GLY:N	2.53	0.41
45:VN:268:ILE:HB	45:VN:368:VAL:HG22	2.02	0.41
44:WA:70:LEU:HB3	44:WA:97:GLU:O	2.19	0.41
44:WA:195:LEU:HG	44:WA:195:LEU:O	2.20	0.41
45:WB:40:SER:O	45:WB:43:GLN:HB2	2.20	0.41
44:WC:195:LEU:HD21	44:WC:428:LEU:HD12	2.01	0.41
44:WC:254:GLU:CG	45:WF:98:GLY:HA2	2.51	0.41
44:WC:437:ILE:O	44:WC:437:ILE:HG13	2.19	0.41
45:WD:25:SER:O	45:WD:30:ILE:HB	2.21	0.41
45:WD:321:MET:SD	45:WD:353:ILE:HG23	2.60	0.41
44:WE:13:GLY:HA2	44:WE:16:VAL:HG22	2.02	0.41
44:WE:145:THR:HG22	46:WE:501:GTP:O3B	2.20	0.41
44:WE:205:ASP:OD1	44:WE:303:ALA:HA	2.21	0.41
44:WG:175:PRO:HG2	44:WG:304:LYS:CG	2.51	0.41
45:WH:252:LYS:HG2	45:WH:350:LYS:HZ3	1.85	0.41
45:WH:314:SER:HB2	45:WH:350:LYS:CB	2.40	0.41
44:WI:144:GLY:N	46:WI:501:GTP:O2G	2.46	0.41
44:WI:145:THR:O	44:WI:149:LEU:HB2	2.20	0.41
45:WJ:50:TYR:HE2	45:WJ:237:THR:HG21	1.86	0.41
45:WJ:130:LEU:CB	45:WJ:162:ARG:HD2	2.50	0.41
45:WJ:185:ALA:HA	45:WJ:188:SER:HG	1.86	0.41
44:WK:257:THR:CA	45:WN:397:TRP:HH2	2.29	0.41
44:WM:3:GLU:CB	44:WM:51:THR:HA	2.51	0.41
1:6H:339:GLN:HE21	45:FJ:357:PRO:HG2	1.85	0.41
7:0F:51:THR:HG22	44:EE:219:ILE:HG12	1.88	0.41
5:1D:82:TYR:O	45:EF:356:ILE:HD11	2.20	0.41
19:1I:152:LYS:HD3	44:KE:364:PRO:CG	2.43	0.41
20:1J:198:ARG:HD3	44:IG:370:LYS:CB	2.51	0.41
22:1L:149:THR:OG1	45:CH:40:SER:HB2	2.20	0.41
22:1L:176:ARG:HH22	44:CI:367:ASP:CB	2.32	0.41
23:1M:288:LEU:HB3	40:6F:55:THR:CB	2.51	0.41
5:2D:38:ILE:HG23	44:EK:280:LYS:NZ	2.36	0.41
22:2L:533:ASP:OD2	44:BM:220:GLU:HB2	2.20	0.41
22:2L:537:LEU:HD13	44:AM:80:THR:HG21	2.03	0.41
12:2S:272:GLN:HG3	45:WJ:55:THR:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2V:37:THR:HG23	44:ME:211:ASP:OD1	2.19	0.41
28:3C:4:TYR:CD1	45:LB:359:LYS:HE2	2.56	0.41
26:3R:152:LEU:CA	45:AN:78:ALA:HB1	2.51	0.41
15:3V:37:THR:HG22	44:MA:214:ARG:HE	1.84	0.41
16:3X:1:MET:CE	44:MM:244:PHE:O	2.69	0.41
37:5C:102:TYR:CE1	44:KI:394:LYS:HG2	2.55	0.41
37:5D:116:ALA:HB2	44:NM:288:VAL:CG2	2.38	0.41
38:5F:111:ASN:HB3	45:NF:44:LEU:HD12	2.02	0.41
38:5G:70:GLU:O	38:5G:70:GLU:CD	2.59	0.41
38:5G:85:GLN:HG3	38:5G:96:TYR:CZ	2.55	0.41
38:5H:121:GLU:HG2	44:OM:370:LYS:HD3	2.01	0.41
39:5I:111:PHE:O	39:5I:114:THR:OG1	2.32	0.41
35:5R:52:TYR:O	35:5R:55:ASP:N	2.54	0.41
35:5R:126:THR:HG21	35:5R:147:ARG:HD2	2.02	0.41
35:5R:174:PHE:O	35:5R:175:GLU:CG	2.69	0.41
35:5R:260:VAL:HG23	35:5R:276:LEU:HB2	2.01	0.41
35:5R:466:TRP:CZ3	45:EJ:77:ARG:HD3	2.47	0.41
36:5S:180:VAL:N	36:5S:181:PRO:CD	2.84	0.41
41:6G:166:PHE:CE1	41:6G:167:ILE:HD12	2.55	0.41
41:6G:272:LYS:O	41:6G:273:MET:HE3	2.20	0.41
41:6G:298:SER:OG	41:6G:300:VAL:HG22	2.21	0.41
35:6R:600:LEU:HD13	35:6R:601:ASP:N	2.36	0.41
35:7R:242:ASN:ND2	44:CA:285:GLN:HA	2.36	0.41
35:7R:307:LYS:CD	35:7R:308:LYS:H	2.33	0.41
35:7R:404:LEU:CD1	45:DB:77:ARG:HD3	2.50	0.41
35:7R:411:LYS:HD3	35:7R:411:LYS:N	2.36	0.41
35:7R:600:LEU:HD23	35:7R:601:ASP:C	2.40	0.41
42:8L:196:UNK:O	42:8L:200:UNK:N	2.53	0.41
42:8L:273:UNK:O	42:8L:274:UNK:CB	2.68	0.41
43:8P:338:UNK:HA	43:8P:341:UNK:CB	2.51	0.41
44:AA:18:ASN:HD21	44:AA:78:VAL:HG21	1.84	0.41
45:AB:73:MET:HE2	45:AB:90:PHE:CD2	2.56	0.41
44:AC:71:GLU:OE2	44:AC:73:THR:HG23	2.20	0.41
45:AD:36:TYR:CG	45:AD:44:LEU:HD11	2.55	0.41
45:AD:46:ARG:HA	45:AD:46:ARG:HD3	1.87	0.41
44:AE:135:PHE:HZ	44:AE:161:TYR:HE2	1.69	0.41
44:AE:362:VAL:O	44:AE:362:VAL:HG13	2.19	0.41
45:AF:86:ARG:CD	45:BF:281:TYR:HB3	2.50	0.41
45:AF:232:ALA:HB1	45:AF:268:ILE:HD12	2.02	0.41
44:AG:198:THR:HG22	44:AG:199:ASP:N	2.35	0.41
44:AG:308:ARG:HH11	44:AG:308:ARG:HG3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AH:116:VAL:O	45:AH:119:VAL:HG12	2.20	0.41
45:AH:180:VAL:HG22	45:AH:180:VAL:O	2.21	0.41
45:AH:299:MET:HE1	45:AH:367:PHE:CD2	2.56	0.41
45:AJ:9:GLY:O	45:AJ:13:GLY:HA3	2.20	0.41
45:AJ:170:VAL:HG22	45:AJ:171:PRO:CD	2.50	0.41
44:AK:31:GLN:HB3	44:AK:32:PRO:CD	2.48	0.41
44:AK:99:ALA:HB2	44:AK:145:THR:HB	2.02	0.41
44:AK:151:SER:CB	44:AK:193:SER:HG	2.23	0.41
44:AK:258:ASN:HA	45:AN:179:VAL:CG1	2.49	0.41
44:AK:276:ILE:HD12	44:AK:284:GLU:OE2	2.20	0.41
45:AL:318:ARG:CD	45:AL:357:PRO:HA	2.50	0.41
45:AN:268:ILE:HA	45:AN:367:PHE:O	2.20	0.41
45:AN:416:ASN:O	45:AN:420:SER:N	2.38	0.41
44:BA:192:HIS:ND1	44:BA:424:ASP:OD2	2.50	0.41
44:BA:203:MET:CB	44:BA:269:LEU:HA	2.41	0.41
44:BC:75:ILE:O	44:BC:78:VAL:N	2.54	0.41
44:BC:176:GLN:O	45:BD:347:ASN:ND2	2.48	0.41
44:BC:181:VAL:HG12	45:BD:256:ASN:CB	2.50	0.41
45:BD:10:GLY:O	45:BD:14:ASN:ND2	2.54	0.41
45:BD:238:CYS:SG	45:BD:316:LEU:HD23	2.61	0.41
45:BD:391:ARG:HA	45:BD:391:ARG:HD2	1.85	0.41
44:BE:22:GLU:HG3	44:BE:83:TYR:CE2	2.55	0.41
44:BG:141:VAL:HG13	44:BG:170:THR:OG1	2.20	0.41
44:BI:217:LEU:HD21	44:BI:275:ILE:CG2	2.51	0.41
44:BI:311:LYS:HE2	44:BI:311:LYS:HA	2.03	0.41
45:BL:211:CYS:HA	45:BL:215:LEU:HB2	2.02	0.41
45:BL:345:ILE:O	45:BL:345:ILE:CG2	2.68	0.41
44:BM:121:ARG:HH12	44:BM:124:LYS:HD2	1.84	0.41
45:BN:6:HIS:NE2	45:BN:8:GLN:HB2	2.36	0.41
45:BN:20:PHE:CE2	45:BN:24:ILE:CD1	3.01	0.41
45:BN:130:LEU:HD12	45:BN:130:LEU:HA	1.87	0.41
44:CA:248:LEU:HB3	44:CA:355:ILE:HG12	2.02	0.41
45:CB:270:PHE:HD1	45:CB:366:THR:HG22	1.85	0.41
45:CB:279:GLN:HG2	45:CB:279:GLN:O	2.21	0.41
45:CB:378:PHE:CB	45:CB:419:VAL:HG22	2.50	0.41
45:CB:393:ALA:O	45:CB:394:PHE:HB2	2.20	0.41
44:CC:2:ARG:NE	44:CC:242:LEU:O	2.40	0.41
45:CD:27:GLU:OE1	45:CD:241:ARG:NH2	2.49	0.41
45:CD:127:CYS:SG	45:CD:130:LEU:HD13	2.61	0.41
45:CD:286:VAL:N	45:CD:287:PRO:CD	2.83	0.41
44:CE:71:GLU:OE1	44:CE:73:THR:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CE:286:LEU:N	44:CE:290:GLU:OE2	2.53	0.41
44:CG:312:TYR:HE1	44:CG:379:SER:HB2	1.86	0.41
45:CH:152:ILE:HG23	45:CH:164:MET:SD	2.59	0.41
44:CI:223:THR:HG22	44:CI:226:ASN:ND2	2.35	0.41
44:CI:284:GLU:OE2	44:CI:290:GLU:OE2	2.39	0.41
44:CI:428:LEU:HG	44:CI:432:TYR:HE2	1.86	0.41
45:CJ:376:GLU:O	45:CJ:380:ARG:HG2	2.20	0.41
44:CK:66:VAL:O	44:CK:66:VAL:HG13	2.21	0.41
44:CK:261:PRO:O	45:CL:394:PHE:N	2.43	0.41
44:CK:344:VAL:HG21	44:CK:346:TRP:NE1	2.35	0.41
45:CL:255:VAL:CA	44:CM:407:TRP:HZ3	2.27	0.41
45:CL:256:ASN:HD22	44:CM:181:VAL:HG22	1.86	0.41
45:CN:68:LEU:HG	45:CN:68:LEU:O	2.21	0.41
45:CN:143:THR:HG23	45:CN:144:GLY:N	2.36	0.41
45:CN:206:ALA:HB3	45:CN:300:MET:C	2.41	0.41
44:DA:164:LYS:O	44:DA:166:LYS:NZ	2.52	0.41
44:DA:292:THR:HG23	44:DA:293:ASN:N	2.35	0.41
45:DB:315:ALA:N	45:DB:350:LYS:O	2.52	0.41
44:DC:259:LEU:HD23	44:DC:259:LEU:HA	1.95	0.41
44:DC:343:PHE:HE2	44:DC:351:PHE:CZ	2.38	0.41
44:DE:425:LEU:HD23	44:DE:425:LEU:HA	1.97	0.41
45:DH:35:THR:HG22	45:DH:36:TYR:N	2.35	0.41
45:DH:340:TYR:O	45:DH:341:PHE:HD1	2.03	0.41
44:DI:21:TRP:O	44:DI:25:CYS:N	2.42	0.41
45:DJ:274:THR:HB	45:DJ:282:ARG:NH1	2.33	0.41
44:DK:235:ILE:O	44:DK:239:THR:HG23	2.21	0.41
44:DM:71:GLU:OE1	44:DM:73:THR:CB	2.68	0.41
44:DM:225:THR:O	44:DM:228:ASN:N	2.54	0.41
45:DN:20:PHE:O	45:DN:24:ILE:N	2.47	0.41
45:DN:50:TYR:CE2	45:DN:237:THR:HG21	2.54	0.41
45:DN:239:CYS:CB	45:DN:354:CYS:HB2	2.50	0.41
44:EA:147:SER:HB2	44:EA:190:SER:HB3	2.02	0.41
45:EB:130:LEU:CB	45:EB:162:ARG:HD2	2.49	0.41
44:EC:5:ILE:HG13	44:EC:64:ARG:HD3	2.01	0.41
44:EC:289:ALA:O	44:EC:292:THR:HB	2.20	0.41
44:EE:105:ARG:HB3	44:EE:110:ILE:HD13	2.01	0.41
44:EE:372:MET:HG3	44:EE:373:ARG:N	2.35	0.41
45:EF:102:ALA:HA	45:EF:403:MET:HE1	2.00	0.41
45:EF:178:THR:CB	45:EF:181:GLU:HG3	2.26	0.41
45:EF:320:ARG:O	45:EF:321:MET:CE	2.68	0.41
45:EH:86:ARG:CG	45:EH:89:ASN:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EH:146:GLY:O	45:EH:149:THR:HG22	2.20	0.41
45:EJ:27:GLU:CD	45:EJ:241:ARG:HH12	2.24	0.41
45:EJ:131:GLN:C	45:EJ:162:ARG:HD3	2.40	0.41
44:EK:32:PRO:HD2	44:EK:34:GLY:H	1.86	0.41
44:EK:137:VAL:CG1	44:EK:168:GLY:HA2	2.50	0.41
45:EL:65:LEU:HB2	45:EL:90:PHE:CE1	2.55	0.41
45:EL:116:VAL:O	45:EL:120:VAL:HG13	2.20	0.41
44:EM:159:VAL:HG13	44:EM:160:ASP:N	2.36	0.41
44:EM:311:LYS:O	44:EM:382:THR:HG23	2.21	0.41
44:EM:322:ASP:OD1	44:EM:373:ARG:NE	2.54	0.41
44:FA:182:VAL:HG23	44:FA:185:TYR:CD2	2.55	0.41
44:FA:199:ASP:HB3	44:FA:256:GLN:HG2	2.03	0.41
45:FB:317:PHE:CD2	45:FB:365:VAL:HG11	2.55	0.41
45:FB:386:THR:HA	45:FB:389:PHE:CB	2.51	0.41
44:FC:11:GLN:HA	44:FC:14:ILE:HB	2.01	0.41
44:FE:46:ASP:O	44:FE:47:ASP:HB2	2.19	0.41
44:FE:185:TYR:CZ	44:FE:398:MET:HE3	2.56	0.41
44:FE:242:LEU:HD21	44:FE:251:ASP:CA	2.47	0.41
45:FF:146:GLY:HA2	45:FF:149:THR:HG22	2.02	0.41
45:FF:149:THR:HG23	45:FF:150:LEU:N	2.36	0.41
45:FF:163:ILE:CD1	45:FF:251:ARG:HB2	2.50	0.41
45:FH:68:LEU:HB3	45:FH:143:THR:OG1	2.21	0.41
45:FH:105:HIS:ND1	45:FH:105:HIS:O	2.53	0.41
45:FH:324:LYS:O	45:FH:325:GLU:HG2	2.19	0.41
44:FI:141:VAL:HG23	44:FI:190:SER:HB2	2.03	0.41
44:FI:266:HIS:CE1	44:FI:267:PHE:HE1	2.39	0.41
45:FJ:113:ILE:HA	45:FJ:116:VAL:CG1	2.50	0.41
45:FJ:117:LEU:HD21	45:FJ:121:ARG:HH22	1.86	0.41
44:FK:287:SER:HB3	44:FK:290:GLU:CB	2.51	0.41
44:FK:313:MET:SD	44:FK:382:THR:HG22	2.60	0.41
44:FK:344:VAL:HG22	44:FK:345:ASP:N	2.36	0.41
44:FM:142:GLY:HA3	46:FM:501:GTP:O3'	2.20	0.41
44:FM:210:TYR:CE2	45:FN:324:LYS:HB2	2.55	0.41
45:FN:72:THR:O	45:FN:76:VAL:HB	2.21	0.41
45:FN:287:PRO:O	45:FN:290:THR:HG22	2.19	0.41
44:GA:224:TYR:HE2	45:GB:246:LEU:HD11	1.85	0.41
45:GB:236:VAL:HG13	45:GB:253:LEU:HD22	2.03	0.41
44:GC:148:GLY:O	44:GC:152:LEU:N	2.34	0.41
44:GC:176:GLN:CD	45:GD:331:LEU:HD11	2.41	0.41
44:GC:256:GLN:OE1	45:GF:397:TRP:HZ2	2.04	0.41
44:GC:336:LYS:HE2	44:GC:351:PHE:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:162:ARG:NE	45:GD:162:ARG:HA	2.36	0.41
44:GE:109:THR:HG21	44:GE:411:GLU:OE2	2.20	0.41
44:GE:186:ASN:OD1	44:GE:187:SER:N	2.53	0.41
45:GF:134:GLN:O	45:GF:134:GLN:HG3	2.20	0.41
45:GH:73:MET:HA	45:GH:76:VAL:HG12	2.01	0.41
45:GH:318:ARG:HB2	45:GH:364:ALA:HB3	2.01	0.41
44:GI:145:THR:HG23	46:GI:501:GTP:PG	2.60	0.41
44:GI:183:GLU:HG2	44:GI:184:PRO:N	2.36	0.41
44:GK:246:GLY:HA2	44:GK:357:TYR:CE2	2.56	0.41
44:GK:386:GLU:HB3	44:GK:390:ARG:HH22	1.84	0.41
44:GM:11:GLN:HG2	44:GM:15:GLN:NE2	2.35	0.41
44:GM:35:GLN:C	44:GM:36:MET:HE2	2.40	0.41
44:GM:71:GLU:OE1	44:GM:73:THR:CB	2.68	0.41
44:GM:90:GLU:HB3	44:HM:280:LYS:HZ2	1.85	0.41
45:GN:315:ALA:HB1	45:GN:365:VAL:HG11	2.03	0.41
44:HA:22:GLU:CG	44:HA:83:TYR:HE2	2.25	0.41
44:HA:28:HIS:HB3	44:HA:30:ILE:CD1	2.50	0.41
44:HA:103:PHE:CE1	44:HA:148:GLY:HA2	2.56	0.41
44:HA:313:MET:SD	44:HA:314:ALA:N	2.93	0.41
44:HA:413:MET:HA	44:HA:413:MET:HE3	2.01	0.41
45:HB:30:ILE:HD11	45:HB:36:TYR:CD1	2.51	0.41
45:HB:180:VAL:HG22	45:HB:180:VAL:O	2.20	0.41
45:HB:285:THR:O	45:HB:287:PRO:N	2.54	0.41
45:HB:309:ARG:CD	45:HB:426:GLN:HA	2.50	0.41
45:HD:180:VAL:HG23	45:HD:183:TYR:CD2	2.55	0.41
45:HD:275:SER:OG	45:HD:278:SER:HB3	2.21	0.41
44:HE:377:MET:SD	44:HE:379:SER:HB3	2.61	0.41
44:HE:401:LYS:HE3	45:HF:344:TRP:CZ2	2.56	0.41
44:HE:418:PHE:O	44:HE:421:ALA:N	2.54	0.41
45:HF:144:GLY:O	45:HF:148:GLY:HA3	2.20	0.41
45:HF:217:LEU:O	45:HF:217:LEU:HD12	2.20	0.41
44:HG:82:THR:O	44:HG:82:THR:HG22	2.20	0.41
44:HG:301:MET:HE1	44:HG:307:PRO:CD	2.50	0.41
45:HH:27:GLU:OE2	45:HH:242:PHE:HE2	2.04	0.41
45:HH:269:GLY:HA2	45:HH:300:MET:HG3	1.93	0.41
45:HH:404:ASP:OD1	45:HH:407:GLU:HG3	2.21	0.41
45:HJ:186:THR:HA	45:HJ:189:VAL:CG2	2.50	0.41
45:HJ:368:VAL:HG23	45:HJ:368:VAL:O	2.21	0.41
44:HK:224:TYR:HD1	45:HL:323:THR:HG1	1.64	0.41
45:HL:182:PRO:HG3	45:HL:388:MET:HE2	2.02	0.41
44:HM:301:MET:CE	44:HM:305:CYS:H	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:45:GLU:HB3	45:HN:46:ARG:CZ	2.50	0.41
45:HN:127:CYS:SG	45:HN:130:LEU:HB2	2.61	0.41
45:IB:163:ILE:O	45:IB:163:ILE:HG13	2.20	0.41
45:IB:270:PHE:HE2	45:IB:273:LEU:HD21	1.86	0.41
45:IB:295:ASP:OD1	45:IB:296:ALA:N	2.53	0.41
45:IB:312:THR:N	45:IB:370:ASN:O	2.50	0.41
45:IB:317:PHE:HB3	45:IB:321:MET:CE	2.51	0.41
45:IB:343:GLU:OE2	45:IB:430:ALA:N	2.45	0.41
44:IE:323:VAL:HG23	44:IE:323:VAL:O	2.20	0.41
44:IG:71:GLU:CD	44:IG:73:THR:H	2.24	0.41
45:IH:7:ILE:HD12	45:IH:120:VAL:CG2	2.51	0.41
45:IJ:7:ILE:CB	45:IJ:135:ILE:HD12	2.32	0.41
45:IJ:86:ARG:HH21	45:IJ:87:PRO:CD	2.33	0.41
44:IK:14:ILE:HD12	44:IK:14:ILE:H	1.86	0.41
44:IK:176:GLN:HG2	44:IK:177:VAL:HG13	2.02	0.41
45:IL:10:GLY:O	45:IL:14:ASN:OD1	2.38	0.41
45:IL:187:LEU:HD11	45:IL:408:PHE:CE1	2.56	0.41
44:IM:421:ALA:O	44:IM:425:LEU:HG	2.19	0.41
45:IN:65:LEU:HD11	45:IN:85:PHE:CE2	2.55	0.41
45:IN:341:PHE:HD2	45:IN:348:ASN:ND2	2.19	0.41
44:JA:128:ASN:ND2	44:KA:290:GLU:OE1	2.51	0.41
44:JA:145:THR:HG23	44:JA:146:GLY:N	2.35	0.41
45:JB:326:VAL:HG13	45:JB:327:ASP:N	2.36	0.41
44:JC:156:ARG:HD2	44:JC:156:ARG:HA	1.87	0.41
45:JD:36:TYR:CZ	45:JD:44:LEU:HD11	2.55	0.41
45:JD:101:TRP:CZ3	45:JD:187:LEU:HB2	2.56	0.41
45:JF:88:ASP:C	45:JF:90:PHE:HB2	2.41	0.41
44:JG:56:THR:OG1	44:JG:60:LYS:O	2.25	0.41
45:JH:221:THR:CG2	45:JH:222:TYR:N	2.83	0.41
45:JH:253:LEU:HB3	45:JH:257:LEU:HD12	2.02	0.41
45:JJ:348:ASN:O	45:JJ:349:ILE:HD13	2.21	0.41
44:JK:326:LYS:HZ2	45:JN:220:PRO:C	2.24	0.41
45:JL:134:GLN:HB3	45:JL:165:GLU:OE1	2.20	0.41
45:JL:185:ALA:O	45:JL:188:SER:HB2	2.20	0.41
44:JM:145:THR:HG22	46:JM:501:GTP:PG	2.60	0.41
45:JN:43:GLN:O	45:JN:47:ILE:HD11	2.21	0.41
45:KB:345:ILE:O	45:KB:348:ASN:HB3	2.21	0.41
44:KC:2:ARG:NH2	45:KF:70:PRO:HD2	2.35	0.41
44:KC:184:PRO:HA	44:KC:187:SER:OG	2.20	0.41
44:KC:387:VAL:HA	44:KC:390:ARG:CZ	2.50	0.41
44:KC:387:VAL:HA	44:KC:390:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KD:2:ARG:HB2	45:KD:131:GLN:HG3	1.98	0.41
45:KD:103:LYS:HE2	45:KD:103:LYS:HB2	1.80	0.41
44:KE:159:VAL:O	44:KE:159:VAL:HG22	2.21	0.41
45:KF:157:GLU:HA	45:KF:157:GLU:OE1	2.20	0.41
45:KF:251:ARG:O	45:KF:254:ALA:HB3	2.19	0.41
44:KG:224:TYR:O	44:KG:227:LEU:HB2	2.19	0.41
44:KG:256:GLN:OE1	45:KJ:397:TRP:CH2	2.74	0.41
44:KG:272:TYR:CE2	44:KG:275:ILE:HD11	2.56	0.41
44:KG:319:TYR:CE2	44:KG:328:VAL:CG1	3.01	0.41
44:KI:72:PRO:HG2	45:KJ:2:ARG:NH1	2.35	0.41
44:KI:103:PHE:HB2	44:KI:186:ASN:HB3	2.02	0.41
44:KI:258:ASN:HD22	45:KL:179:VAL:HG12	1.84	0.41
44:KI:260:VAL:HG22	44:KI:262:TYR:O	2.21	0.41
45:KJ:287:PRO:CA	45:KJ:290:THR:HG22	2.46	0.41
44:KM:274:PRO:O	44:KM:274:PRO:CD	2.66	0.41
44:KM:340:THR:HG23	44:KM:341:ILE:CG1	2.47	0.41
45:KN:180:VAL:O	45:KN:180:VAL:HG12	2.20	0.41
45:KN:258:ILE:HG13	45:KN:266:PHE:HZ	1.85	0.41
44:LA:196:GLU:CG	44:LA:197:HIS:CE1	2.96	0.41
45:LB:44:LEU:HD23	45:LB:47:ILE:CD1	2.51	0.41
45:LB:60:VAL:HG23	45:LB:84:LEU:O	2.21	0.41
44:LC:13:GLY:CA	44:LC:16:VAL:HG12	2.49	0.41
44:LC:239:THR:O	44:LC:239:THR:CG2	2.69	0.41
44:LE:168:GLY:O	44:LE:201:ALA:HA	2.21	0.41
45:LF:156:ARG:HA	45:LF:156:ARG:HD2	1.76	0.41
44:LG:5:ILE:HB	44:LG:135:PHE:CD1	2.54	0.41
44:LG:96:LYS:HG2	45:LH:1:MET:HE3	2.01	0.41
44:LG:258:ASN:C	44:LG:259:LEU:HD23	2.41	0.41
44:LG:261:PRO:HG2	44:LG:313:MET:SD	2.61	0.41
45:LH:317:PHE:CB	45:LH:321:MET:CE	2.95	0.41
44:LI:344:VAL:HG12	44:LI:345:ASP:N	2.35	0.41
45:LJ:143:THR:HG23	48:LJ:501:GDP:O1B	2.21	0.41
44:LK:37:PRO:N	44:LK:40:LYS:CE	2.79	0.41
44:LK:118:CYS:O	44:LK:122:ILE:HG12	2.21	0.41
45:LL:159:TYR:HB3	45:LL:162:ARG:CG	2.51	0.41
45:LL:190:HIS:O	45:LL:193:VAL:HG12	2.21	0.41
45:LL:343:GLU:OE2	45:LL:430:ALA:N	2.54	0.41
44:LM:267:PHE:HB2	44:LM:384:ILE:HD13	2.03	0.41
45:LN:2:ARG:C	45:LN:131:GLN:HB2	2.41	0.41
45:LN:61:PRO:HD2	45:LN:84:LEU:O	2.21	0.41
45:LN:175:VAL:HG22	45:LN:205:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:218:THR:CG2	45:LN:219:THR:N	2.84	0.41
44:MA:292:THR:O	44:MA:295:ALA:CB	2.67	0.41
44:MA:387:VAL:HG23	44:MA:388:PHE:N	2.36	0.41
44:MC:417:GLU:O	44:MC:420:GLU:HG2	2.21	0.41
44:ME:209:ILE:HG22	44:ME:227:LEU:CD2	2.50	0.41
45:MF:30:ILE:HG22	45:MF:84:LEU:HD21	2.02	0.41
45:MF:36:TYR:CE1	45:MF:44:LEU:HD21	2.55	0.41
45:MF:66:MET:CE	45:MF:147:MET:SD	3.09	0.41
44:MG:13:GLY:HA2	44:MG:16:VAL:CG1	2.50	0.41
44:MG:74:VAL:O	44:MG:77:GLU:HB3	2.21	0.41
45:MH:198:GLU:OE2	45:MH:254:ALA:HB2	2.20	0.41
45:MH:238:CYS:SG	45:MH:239:CYS:N	2.94	0.41
45:MJ:233:MET:O	45:MJ:236:VAL:HG12	2.20	0.41
45:MJ:244:GLY:HA2	45:MJ:355:ASP:OD2	2.20	0.41
45:MJ:293:MET:CE	45:MJ:367:PHE:HB2	2.45	0.41
44:MK:95:GLY:O	44:MK:96:LYS:HD2	2.21	0.41
44:MK:172:TYR:CD2	44:MK:203:MET:HE1	2.56	0.41
44:MK:333:ALA:CB	45:MN:174:LYS:HE3	2.49	0.41
45:ML:3:GLU:HB2	45:ML:49:VAL:O	2.20	0.41
45:ML:33:THR:O	45:ML:58:ARG:CD	2.69	0.41
45:ML:47:ILE:HG13	45:ML:47:ILE:O	2.21	0.41
45:ML:106:TYR:CD1	45:ML:403:MET:HE3	2.55	0.41
45:ML:240:LEU:HD12	45:ML:240:LEU:O	2.21	0.41
45:ML:381:VAL:HB	45:ML:415:MET:HE1	2.01	0.41
44:MM:109:THR:HG23	44:MM:110:ILE:HG23	2.03	0.41
44:MM:276:ILE:HD11	44:MM:281:ALA:HA	2.01	0.41
44:MM:344:VAL:HG22	44:MM:345:ASP:N	2.36	0.41
44:MM:375:VAL:HG22	44:MM:377:MET:HE3	2.03	0.41
45:MN:263:LEU:HG	45:MN:422:TYR:HD1	1.85	0.41
44:NA:103:PHE:HD1	44:NA:147:SER:OG	2.04	0.41
44:NA:294:SER:HA	44:NA:297:GLU:HG3	2.02	0.41
45:NB:164:MET:CE	45:NB:196:ALA:HA	2.50	0.41
45:NB:224:ASP:HA	45:NB:227:HIS:HB3	2.03	0.41
44:NC:7:ILE:HD12	44:NC:66:VAL:CG1	2.50	0.41
44:NC:21:TRP:HA	44:NC:24:PHE:HB2	2.03	0.41
44:NC:141:VAL:HG13	44:NC:142:GLY:N	2.36	0.41
44:NC:145:THR:O	44:NC:149:LEU:N	2.51	0.41
45:ND:6:HIS:HB2	45:ND:134:GLN:NE2	2.36	0.41
44:NE:4:VAL:CG1	44:NE:52:PHE:HE2	2.33	0.41
44:NE:28:HIS:HE1	44:NE:48:ALA:CB	2.29	0.41
44:NE:99:ALA:HB3	44:NE:145:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NE:181:VAL:O	44:NE:181:VAL:HG22	2.20	0.41
45:NH:28:HIS:CE1	45:NH:241:ARG:HH11	2.38	0.41
45:NH:363:MET:HE1	45:NH:364:ALA:O	2.21	0.41
44:NI:63:PRO:HG2	44:NI:86:LEU:CG	2.51	0.41
44:NI:174:SER:CB	44:NI:177:VAL:HG23	2.50	0.41
44:NI:256:GLN:O	45:NL:397:TRP:CH2	2.74	0.41
45:NJ:60:VAL:O	45:NJ:60:VAL:HG13	2.20	0.41
45:NJ:116:VAL:HA	45:NJ:119:VAL:HG22	2.03	0.41
45:NJ:208:TYR:CE1	45:NJ:225:LEU:HD11	2.56	0.41
45:NJ:258:ILE:HD11	45:NJ:266:PHE:HZ	1.85	0.41
45:NJ:268:ILE:C	45:NJ:299:MET:HE1	2.41	0.41
45:NJ:309:ARG:HB3	45:NJ:342:VAL:HG22	2.02	0.41
45:NJ:378:PHE:HB3	45:NJ:419:VAL:HG22	2.02	0.41
44:NM:183:GLU:CG	44:NM:184:PRO:HD3	2.46	0.41
45:NN:68:LEU:HD11	45:NN:95:THR:HG22	2.02	0.41
45:NN:86:ARG:HG2	45:NN:89:ASN:CG	2.40	0.41
45:NN:217:LEU:HD12	45:NN:217:LEU:C	2.39	0.41
45:NN:218:THR:HG23	45:NN:219:THR:N	2.34	0.41
45:NN:315:ALA:C	45:NN:316:LEU:HD12	2.41	0.41
44:OA:258:ASN:O	44:OA:314:ALA:HB1	2.20	0.41
44:OA:407:TRP:NE1	45:OB:258:ILE:O	2.52	0.41
44:OC:287:SER:O	44:OC:290:GLU:HG2	2.21	0.41
44:OC:417:GLU:HA	44:OC:420:GLU:OE2	2.19	0.41
45:OD:404:ASP:OD1	45:OD:407:GLU:HG3	2.20	0.41
44:OE:276:ILE:HG22	44:OE:281:ALA:HB2	2.01	0.41
44:OG:4:VAL:HG12	44:OG:5:ILE:N	2.36	0.41
44:OG:51:THR:HG23	44:OG:52:PHE:N	2.35	0.41
44:OG:210:TYR:HB3	45:OH:324:LYS:NZ	2.34	0.41
44:OG:301:MET:HA	44:OG:301:MET:HE2	2.03	0.41
45:OH:3:GLU:CB	45:OH:49:VAL:HA	2.50	0.41
44:OI:21:TRP:CE3	44:OI:21:TRP:HA	2.55	0.41
44:OI:67:PHE:HB2	44:OI:92:LEU:HD22	2.02	0.41
44:OI:220:GLU:O	44:OI:221:ARG:HD2	2.20	0.41
44:OI:291:ILE:HA	44:OI:294:SER:OG	2.20	0.41
44:OI:315:CYS:CB	44:OI:379:SER:HB3	2.51	0.41
45:OJ:167:PHE:HE2	45:OJ:233:MET:HB2	1.84	0.41
45:OJ:242:PHE:HE2	45:OJ:356:ILE:HG21	1.83	0.41
45:OJ:372:THR:OG1	45:OJ:426:GLN:NE2	2.53	0.41
44:OK:69:ASP:HB3	44:OK:75:ILE:CD1	2.41	0.41
44:OK:201:ALA:O	44:OK:267:PHE:HA	2.20	0.41
45:OL:87:PRO:HD2	45:PL:281:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:204:ASN:HD21	48:OL:502:GDP:HO2'	1.64	0.41
45:OL:274:THR:HG21	45:OL:279:GLN:HA	2.02	0.41
45:OL:311:LEU:O	45:OL:345:ILE:HD11	2.21	0.41
44:OM:12:GLY:N	46:OM:501:GTP:O1B	2.52	0.41
44:OM:174:SER:HB2	44:OM:177:VAL:HB	2.02	0.41
44:OM:326:LYS:HB2	44:OM:326:LYS:HE3	1.72	0.41
45:ON:272:PRO:HD3	45:ON:363:MET:O	2.21	0.41
44:PA:135:PHE:O	44:PA:166:LYS:HA	2.21	0.41
44:PA:226:ASN:O	44:PA:229:ARG:N	2.54	0.41
45:PB:32:PRO:HD2	45:PB:33:THR:H	1.85	0.41
45:PB:130:LEU:HD12	45:PB:130:LEU:HA	1.91	0.41
45:PB:146:GLY:O	45:PB:149:THR:HG22	2.21	0.41
45:PB:312:THR:OG1	45:PB:348:ASN:O	2.23	0.41
45:PB:374:ILE:HD11	45:PB:422:TYR:CE2	2.56	0.41
44:PC:323:VAL:CG1	44:PC:355:ILE:HG23	2.51	0.41
45:PD:164:MET:H	45:PD:197:ASP:HB2	1.83	0.41
45:PD:258:ILE:HG22	45:PD:264:HIS:HA	2.02	0.41
44:PG:28:HIS:ND1	44:PG:28:HIS:O	2.54	0.41
44:PG:67:PHE:O	44:PG:68:LEU:HD12	2.20	0.41
44:PG:89:PRO:CG	44:QG:280:LYS:HD2	2.39	0.41
44:PG:294:SER:HA	44:PG:297:GLU:CG	2.45	0.41
45:PH:105:HIS:HD1	45:PH:106:TYR:HD1	1.65	0.41
45:PH:130:LEU:HD23	45:PH:162:ARG:HG3	2.03	0.41
44:PI:101:ASN:OD1	45:PJ:252:LYS:HG3	2.20	0.41
44:PI:189:LEU:HD11	44:PI:418:PHE:CE1	2.55	0.41
45:PJ:69:GLU:OE2	45:PJ:70:PRO:HD2	2.21	0.41
45:PJ:274:THR:HG23	45:PJ:274:THR:O	2.20	0.41
45:PJ:417:ASP:OD1	45:PJ:421:GLU:HG3	2.20	0.41
44:PK:63:PRO:HG2	44:PK:86:LEU:HG	2.03	0.41
45:PL:32:PRO:HA	45:PL:81:PHE:CE1	2.55	0.41
45:PN:311:LEU:HB2	45:PN:370:ASN:O	2.21	0.41
45:PN:405:GLU:HG2	45:PN:406:MET:CE	2.49	0.41
45:QB:267:MET:CE	45:QB:305:PRO:HB3	2.51	0.41
45:QB:362:LYS:O	45:QB:363:MET:HG3	2.19	0.41
44:QC:244:PHE:CE1	44:QC:358:GLN:HG2	2.56	0.41
44:QC:330:ALA:O	44:QC:333:ALA:HB3	2.21	0.41
44:QE:66:VAL:HG21	44:QE:122:ILE:CD1	2.48	0.41
44:QE:171:ILE:HG23	44:QE:204:LEU:O	2.20	0.41
45:QF:217:LEU:HD11	45:QF:220:PRO:HB3	2.02	0.41
45:QF:240:LEU:HD23	45:QF:240:LEU:C	2.41	0.41
44:QG:118:CYS:O	44:QG:122:ILE:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QG:159:VAL:HG22	44:QG:159:VAL:O	2.21	0.41
45:QH:382:ALA:N	45:QH:415:MET:HE1	2.36	0.41
44:QI:106:GLY:O	44:QI:149:LEU:HD22	2.21	0.41
45:QJ:172:SER:HG	45:QJ:175:VAL:HG22	1.86	0.41
45:QJ:242:PHE:HB3	45:QJ:243:PRO:CD	2.50	0.41
45:QJ:391:ARG:HA	45:QJ:391:ARG:HD2	1.82	0.41
45:QJ:399:THR:HA	45:QJ:403:MET:O	2.20	0.41
45:QL:175:VAL:HG21	45:QL:204:ASN:HB2	2.03	0.41
44:QM:5:ILE:HD12	44:QM:132:LEU:HD12	2.02	0.41
45:QN:102:ALA:HB3	45:QN:401:GLU:OE1	2.20	0.41
45:QN:180:VAL:HG22	45:QN:180:VAL:O	2.20	0.41
45:QN:272:PRO:HG3	45:QN:282:ARG:NH1	2.35	0.41
44:RA:2:ARG:HB2	44:RA:133:GLN:CG	2.49	0.41
44:RA:177:VAL:HG11	44:RA:207:GLU:HB2	2.02	0.41
44:RA:213:CYS:SG	44:RA:217:LEU:HD12	2.60	0.41
44:RA:259:LEU:HD11	44:RA:378:ILE:O	2.21	0.41
44:RA:291:ILE:HG13	44:RA:292:THR:N	2.35	0.41
44:RA:348:PRO:HB2	45:RB:384:GLN:HG2	2.03	0.41
45:RB:47:ILE:HD13	45:RB:59:TYR:CD2	2.55	0.41
45:RB:163:ILE:O	45:RB:163:ILE:HG13	2.21	0.41
45:RB:323:THR:CG2	45:RB:353:ILE:HD13	2.50	0.41
44:RC:53:PHE:CD2	44:RC:61:HIS:HB3	2.55	0.41
44:RC:98:ASP:OD1	44:RC:99:ALA:N	2.53	0.41
45:RD:68:LEU:HD21	45:RD:97:ALA:CB	2.50	0.41
45:RD:100:ASN:ND2	45:RD:397:TRP:HB3	2.35	0.41
45:RD:378:PHE:O	45:RD:381:VAL:HG22	2.20	0.41
45:RD:391:ARG:HA	45:RD:391:ARG:HD2	1.81	0.41
45:RF:193:VAL:HG21	45:RF:418:LEU:HD22	2.03	0.41
44:RG:274:PRO:HB3	44:RG:286:LEU:CG	2.49	0.41
45:RH:86:ARG:HH11	45:RH:89:ASN:CG	2.23	0.41
45:RH:108:GLU:O	45:RH:111:GLU:N	2.53	0.41
45:RH:139:LEU:CA	45:RH:145:SER:HB3	2.47	0.41
45:RH:266:PHE:CZ	45:RH:370:ASN:HB2	2.56	0.41
44:RI:230:LEU:CD1	44:RI:368:LEU:HD21	2.46	0.41
45:RJ:163:ILE:O	45:RJ:163:ILE:HG13	2.20	0.41
44:RK:251:ASP:HB2	44:RK:254:GLU:HG3	2.01	0.41
45:RL:105:HIS:ND1	45:RL:105:HIS:O	2.54	0.41
45:RL:228:LEU:HD22	45:RL:273:LEU:HD13	2.03	0.41
45:RL:255:VAL:CA	44:RM:407:TRP:HZ3	2.25	0.41
44:RM:210:TYR:CD1	44:RM:227:LEU:HD21	2.55	0.41
44:RM:372:MET:HE1	44:RM:373:ARG:HH12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RM:391:LEU:O	44:RM:394:LYS:N	2.54	0.41
44:SA:107:HIS:O	44:SA:107:HIS:ND1	2.53	0.41
44:SA:287:SER:C	44:SA:291:ILE:HG23	2.40	0.41
45:SB:7:ILE:HG13	45:SB:64:ILE:CD1	2.51	0.41
45:SB:91:VAL:CG2	45:SB:116:VAL:HB	2.48	0.41
45:SB:325:GLU:CG	44:SC:221:ARG:HD2	2.51	0.41
45:SB:376:GLU:O	45:SB:378:PHE:N	2.54	0.41
44:SC:171:ILE:HD13	46:SC:501:GTP:HN22	1.85	0.41
44:SC:211:ASP:N	44:SC:214:ARG:NH1	2.68	0.41
44:SC:387:VAL:O	44:SC:390:ARG:HG2	2.21	0.41
45:SD:286:VAL:HA	45:SD:289:LEU:CG	2.50	0.41
45:SF:333:VAL:O	45:SF:333:VAL:HG12	2.21	0.41
44:SG:226:ASN:O	44:SG:230:LEU:HD23	2.20	0.41
44:SG:257:THR:CB	45:SH:397:TRP:HH2	2.32	0.41
44:SG:270:SER:HB2	44:SG:377:MET:O	2.20	0.41
44:SG:372:MET:C	44:SG:373:ARG:HD3	2.41	0.41
45:SH:68:LEU:HB3	45:SH:143:THR:OG1	2.21	0.41
45:SH:174:LYS:HD2	45:SH:175:VAL:N	2.35	0.41
44:SI:261:PRO:HA	45:SJ:394:PHE:CD1	2.54	0.41
44:SI:326:LYS:HG2	45:SJ:220:PRO:HD2	2.02	0.41
44:SI:385:ALA:HA	44:SI:388:PHE:HD2	1.85	0.41
44:SI:385:ALA:HB2	44:SI:432:TYR:CD1	2.55	0.41
45:SJ:61:PRO:CD	45:SJ:84:LEU:HB3	2.50	0.41
45:SJ:151:LEU:HD23	45:SJ:155:VAL:HG21	2.02	0.41
44:SK:137:VAL:CG1	44:SK:168:GLY:HA2	2.50	0.41
45:SL:202:ILE:HD11	45:SL:268:ILE:CD1	2.41	0.41
45:SL:263:LEU:HG	45:SL:422:TYR:CE1	2.54	0.41
44:SM:269:LEU:N	44:SM:379:SER:O	2.45	0.41
45:SN:47:ILE:HD13	45:SN:59:TYR:CE2	2.56	0.41
45:SN:73:MET:HE1	45:SN:92:PHE:HD2	1.85	0.41
44:TA:16:VAL:HG13	44:TA:138:PHE:HB3	2.03	0.41
44:TA:183:GLU:CG	44:TA:184:PRO:HD3	2.50	0.41
45:TB:121:ARG:NH2	45:TB:159:TYR:OH	2.54	0.41
44:TC:183:GLU:N	44:TC:184:PRO:HD2	2.35	0.41
44:TE:109:THR:HG22	44:TE:110:ILE:HG23	2.02	0.41
44:TE:326:LYS:HD2	44:TE:327:ASP:OD1	2.21	0.41
45:TF:132:GLY:CA	45:TF:162:ARG:HB3	2.46	0.41
44:TG:223:THR:HG22	44:TG:226:ASN:OD1	2.21	0.41
44:TG:310:GLY:HA3	44:TG:382:THR:CG2	2.50	0.41
44:TG:387:VAL:O	44:TG:391:LEU:N	2.32	0.41
44:TG:424:ASP:O	44:TG:427:ALA:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TH:32:PRO:HG3	45:TH:81:PHE:CE1	2.55	0.41
45:TH:127:CYS:SG	45:TH:130:LEU:HB2	2.60	0.41
45:TJ:89:ASN:HA	45:TJ:119:VAL:HG21	2.02	0.41
45:TJ:286:VAL:HB	45:TJ:287:PRO:HD3	2.02	0.41
45:TL:45:GLU:O	45:TL:46:ARG:HD3	2.21	0.41
45:TL:309:ARG:HG2	45:TL:340:TYR:O	2.20	0.41
45:TL:350:LYS:CE	44:TM:179:THR:O	2.68	0.41
44:TM:428:LEU:HG	44:TM:432:TYR:HE2	1.86	0.41
45:TN:189:VAL:HA	45:TN:192:LEU:HB3	2.03	0.41
45:TN:192:LEU:CD1	45:TN:196:ALA:HB2	2.51	0.41
44:UC:9:VAL:HA	44:UC:68:LEU:O	2.20	0.41
44:UC:185:TYR:HE1	44:UC:398:MET:HG3	1.84	0.41
44:UC:244:PHE:CD2	44:UC:358:GLN:HG2	2.56	0.41
44:UC:262:TYR:OH	45:UD:393:ALA:HB2	2.21	0.41
44:UC:276:ILE:HG22	44:UC:277:SER:N	2.35	0.41
44:UC:437:ILE:HG12	45:UD:391:ARG:NH2	2.36	0.41
45:UD:2:ARG:HH22	44:UE:71:GLU:CD	2.24	0.41
45:UD:155:VAL:HG23	45:UD:156:ARG:N	2.36	0.41
44:UE:91:GLN:NE2	44:UE:125:LEU:HD21	2.32	0.41
44:UG:17:GLY:HA2	44:UG:20:CYS:SG	2.60	0.41
44:UG:102:ASN:OD1	44:UG:105:ARG:N	2.45	0.41
44:UG:143:GLY:O	44:UG:147:SER:N	2.42	0.41
44:UG:277:SER:O	44:UG:281:ALA:HB2	2.21	0.41
44:UI:51:THR:CG2	44:UI:243:ARG:HD3	2.49	0.41
44:UI:306:ASP:CG	44:UI:308:ARG:HE	2.24	0.41
45:UJ:2:ARG:NH2	45:UJ:240:LEU:HG	2.36	0.41
45:UJ:113:ILE:HD11	45:UJ:151:LEU:HD13	2.03	0.41
45:UJ:375:GLN:O	45:UJ:379:LYS:CD	2.67	0.41
44:UK:144:GLY:H	46:UK:501:GTP:PG	2.44	0.41
44:UK:292:THR:HG23	44:UK:293:ASN:N	2.36	0.41
45:UL:321:MET:HB2	45:UL:321:MET:HE2	1.88	0.41
44:UM:69:ASP:O	44:UM:95:GLY:N	2.47	0.41
45:UN:36:TYR:OH	45:UN:43:GLN:HB2	2.20	0.41
45:UN:213:ARG:HD3	45:UN:213:ARG:N	2.36	0.41
45:UN:305:PRO:HA	45:UN:373:ALA:HB2	2.01	0.41
45:UN:396:HIS:CE1	45:UN:397:TRP:CD1	3.08	0.41
44:VA:407:TRP:CD2	45:VB:255:VAL:HG22	2.56	0.41
44:VA:427:ALA:O	44:VA:430:LYS:HG3	2.19	0.41
45:VD:164:MET:SD	45:VD:196:ALA:HA	2.60	0.41
45:VD:265:PHE:HD2	45:VD:378:PHE:HE2	1.69	0.41
44:VE:107:HIS:O	44:VE:107:HIS:ND1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VF:66:MET:HA	45:VF:73:MET:HE1	2.01	0.41
45:VF:172:SER:OG	45:VF:173:PRO:CD	2.69	0.41
45:VF:286:VAL:HB	45:VF:325:GLU:CD	2.41	0.41
44:VG:55:GLU:HG3	44:VG:57:GLY:H	1.86	0.41
44:VG:108:TYR:CD2	44:VG:413:MET:HE3	2.55	0.41
44:VG:209:ILE:O	44:VG:212:ILE:N	2.53	0.41
45:VH:65:LEU:HD11	45:VH:85:PHE:CE2	2.56	0.41
45:VH:68:LEU:HG	45:VH:96:GLY:H	1.84	0.41
45:VH:86:ARG:CZ	45:WH:281:TYR:HB2	2.50	0.41
44:VI:325:PRO:HG3	45:VL:222:TYR:CE2	2.54	0.41
44:VI:387:VAL:HG12	44:VI:390:ARG:HH12	1.85	0.41
44:VK:30:ILE:HG12	44:VK:36:MET:SD	2.60	0.41
44:VK:60:LYS:HZ2	44:WK:283:HIS:CE1	2.38	0.41
44:VK:172:TYR:HE2	44:VK:203:MET:CE	2.33	0.41
44:VK:186:ASN:CA	44:VK:189:LEU:HB2	2.42	0.41
44:VK:217:LEU:CD2	44:VK:219:ILE:HD12	2.50	0.41
45:VL:101:TRP:HZ3	45:VL:403:MET:HE1	1.86	0.41
45:VL:186:THR:HG1	45:VL:385:PHE:CB	2.32	0.41
45:VL:362:LYS:HD3	45:VL:362:LYS:N	2.36	0.41
45:VN:99:ASN:HA	45:VN:142:GLY:N	2.35	0.41
45:VN:257:LEU:O	45:VN:312:THR:HG21	2.20	0.41
45:VN:313:ALA:HB1	45:VN:349:ILE:HG23	2.03	0.41
45:VN:391:ARG:HA	45:VN:391:ARG:HD2	1.71	0.41
44:WA:2:ARG:NH2	45:WD:71:GLY:H	2.17	0.41
44:WA:176:GLN:HG3	45:WB:331:LEU:CD2	2.51	0.41
44:WA:224:TYR:CE2	45:WB:323:THR:HG21	2.56	0.41
44:WA:229:ARG:NH1	44:WA:229:ARG:CG	2.84	0.41
44:WA:274:PRO:HG2	44:WA:286:LEU:HD12	2.03	0.41
45:WB:2:ARG:HA	45:WB:129:CYS:O	2.20	0.41
45:WB:207:LEU:HD12	45:WB:225:LEU:HD13	2.02	0.41
44:WC:71:GLU:HA	44:WC:72:PRO:HD3	1.91	0.41
44:WE:224:TYR:HE1	45:WF:323:THR:OG1	2.03	0.41
45:WF:100:ASN:ND2	45:WF:397:TRP:HE3	2.18	0.41
45:WF:167:PHE:CD1	45:WF:233:MET:HE1	2.56	0.41
45:WJ:77:ARG:HB3	45:WJ:77:ARG:CZ	2.49	0.41
44:WK:75:ILE:O	44:WK:78:VAL:HG22	2.21	0.41
44:WK:91:GLN:HA	44:WK:121:ARG:CZ	2.50	0.41
44:WK:185:TYR:CE2	44:WK:404:PHE:HB2	2.42	0.41
44:WK:257:THR:HA	45:WN:397:TRP:CZ3	2.49	0.41
44:WK:363:VAL:HG23	44:WK:364:PRO:HD2	2.01	0.41
45:WL:207:LEU:HD21	45:WL:300:MET:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:123:ARG:HA	44:WM:126:ALA:HB3	2.02	0.41
44:WM:401:LYS:O	44:WM:402:ARG:HG2	2.19	0.41
45:WN:238:CYS:HA	45:WN:241:ARG:NH2	2.36	0.41
1:6H:266:LYS:HZ2	44:FE:364:PRO:HD2	1.57	0.41
2:0A:138:TRP:CZ2	44:AA:80:THR:HG23	2.55	0.41
8:0G:40:LEU:HD11	45:JL:359:LYS:HG2	2.02	0.41
2:1A:67:PRO:HB3	45:MF:53:GLU:CG	2.40	0.41
5:1D:93:GLN:HE22	44:EG:31:GLN:HA	1.85	0.41
20:1J:160:PRO:HG3	40:6F:131:ALA:HB1	2.01	0.41
23:1M:69:ARG:HH22	45:IF:83:GLN:CD	2.23	0.41
25:1P:341:LEU:HD11	44:TC:26:LEU:HD21	2.03	0.41
26:1R:310:LEU:HD21	45:CD:227:HIS:NE2	2.35	0.41
12:1S:105:SER:HB2	44:ME:410:GLY:O	2.19	0.41
16:1X:81:ARG:HD2	45:MF:276:ARG:CZ	2.51	0.41
2:2A:36:ARG:CZ	45:MJ:356:ILE:HG12	2.50	0.41
2:2A:149:PRO:CG	44:AI:364:PRO:HA	2.51	0.41
28:2C:4:TYR:OH	35:5R:10:PRO:HG3	2.20	0.41
31:2H:174:PHE:HD2	35:7R:147:ARG:CD	2.31	0.41
32:2I:45:LYS:HZ2	45:GH:332:ASN:CA	2.18	0.41
32:2I:77:GLY:C	44:GE:340:THR:HG21	2.41	0.41
14:2U:236:LEU:CB	45:WJ:33:THR:HG22	2.50	0.41
2:3A:141:GLN:OE1	44:AM:229:ARG:NH2	2.52	0.41
32:3I:213:SER:HB3	44:FK:94:SER:HB3	2.01	0.41
26:3R:248:GLN:HG3	44:CK:372:MET:SD	2.60	0.41
12:3S:149:HIS:HB2	44:WK:164:LYS:HZ2	1.85	0.41
14:3U:449:ARG:HH12	44:VM:84:ARG:HD2	1.86	0.41
35:4R:38:HIS:HD2	45:LF:92:PHE:CD2	2.38	0.41
35:4R:105:GLU:CG	45:BH:279:GLN:HG3	2.51	0.41
35:4R:174:PHE:CZ	45:AH:80:PRO:HG3	2.55	0.41
37:5D:59:TYR:C	45:KN:382:ALA:O	2.58	0.41
38:5F:47:GLU:OE2	44:OC:324:VAL:HG22	2.19	0.41
38:5F:51:GLU:OE2	45:OF:276:ARG:HB2	2.21	0.41
38:5G:200:LEU:HD23	38:5G:202:LYS:HZ1	1.83	0.41
38:5H:16:GLN:CG	38:5H:22:LYS:HE2	2.50	0.41
39:5I:112:PRO:HA	45:ND:309:ARG:HH22	1.85	0.41
11:5Q:46:VAL:HG23	11:5Q:162:ILE:O	2.20	0.41
11:5Q:77:VAL:CG1	11:5Q:166:TYR:CE2	3.03	0.41
35:5R:175:GLU:OE2	45:AL:33:THR:HG23	2.20	0.41
36:5S:87:ILE:CD1	36:5S:122:GLN:HG3	2.51	0.41
40:6F:73:GLU:HA	40:6F:73:GLU:OE1	2.21	0.41
40:6F:73:GLU:CD	40:6F:74:ASN:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6F:82:GLN:HE22	45:JF:360:GLY:N	2.18	0.41
41:6G:169:GLN:HA	41:6G:172:LEU:HD23	1.99	0.41
35:6R:565:ASP:OD2	35:6R:566:PHE:N	2.50	0.41
35:7R:171:ILE:HG22	35:7R:173:LEU:HD11	2.01	0.41
35:7R:222:PRO:HA	35:7R:224:ASN:HB2	2.03	0.41
35:7R:257:SER:O	35:7R:356:THR:HG21	2.20	0.41
42:8L:121:UNK:O	42:8L:125:UNK:N	2.53	0.41
43:8P:37:UNK:O	43:8P:41:UNK:N	2.54	0.41
44:AA:88:HIS:O	44:AA:91:GLN:HG2	2.21	0.41
44:AC:285:GLN:HA	44:MC:56:THR:OG1	2.21	0.41
44:AC:384:ILE:CG2	44:AC:432:TYR:HE2	2.33	0.41
44:AC:387:VAL:O	44:AC:390:ARG:HG3	2.21	0.41
45:AD:130:LEU:HD21	45:AD:133:PHE:CZ	2.55	0.41
44:AE:108:TYR:HE2	44:AE:413:MET:HG3	1.84	0.41
44:AE:202:VAL:HA	44:AE:268:MET:O	2.19	0.41
45:AF:191:GLN:HG3	45:AF:195:ASN:HD21	1.85	0.41
45:AF:335:ASN:O	45:AF:338:SER:N	2.54	0.41
45:AF:377:MET:O	45:AF:380:ARG:HG2	2.20	0.41
44:AG:51:THR:C	44:AG:52:PHE:HD1	2.23	0.41
44:AG:88:HIS:ND1	44:AG:90:GLU:HG2	2.35	0.41
45:AH:104:GLY:O	45:AH:147:MET:N	2.54	0.41
45:AH:137:HIS:O	45:AH:168:SER:HA	2.21	0.41
45:AH:142:GLY:O	45:AH:145:SER:N	2.53	0.41
44:AI:406:HIS:NE2	45:AJ:261:PRO:HD3	2.35	0.41
45:AJ:163:ILE:HG23	45:AJ:251:ARG:HH22	1.86	0.41
45:AJ:295:ASP:OD1	45:AJ:296:ALA:N	2.54	0.41
45:AJ:391:ARG:O	45:AJ:392:LYS:HB2	2.19	0.41
44:AM:203:MET:HG3	44:AM:384:ILE:HD11	2.03	0.41
44:BA:14:ILE:HD11	44:BA:69:ASP:CB	2.41	0.41
45:BB:257:LEU:HD11	45:BB:314:SER:HB2	2.03	0.41
44:BC:3:GLU:N	44:BC:3:GLU:OE1	2.54	0.41
44:BC:132:LEU:HD11	44:BC:135:PHE:HE2	1.85	0.41
44:BC:221:ARG:CD	45:BD:322:SER:OG	2.68	0.41
44:BC:222:PRO:HG2	45:BD:324:LYS:HD3	2.00	0.41
44:BC:278:ALA:HA	44:BC:369:ALA:HB2	2.03	0.41
45:BD:254:ALA:HA	45:BD:258:ILE:CD1	2.50	0.41
45:BF:3:GLU:CB	45:BF:49:VAL:HA	2.51	0.41
45:BF:270:PHE:HD2	45:BF:273:LEU:HD21	1.85	0.41
44:BG:35:GLN:O	44:BG:37:PRO:HD3	2.21	0.41
44:BG:63:PRO:HD3	44:BG:86:LEU:HG	2.02	0.41
44:BG:70:LEU:HD13	44:BG:110:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BG:141:VAL:HG11	44:BG:172:TYR:CD1	2.56	0.41
45:BJ:101:TRP:NE1	45:BJ:146:GLY:HA2	2.35	0.41
45:BJ:293:MET:HG3	45:BJ:367:PHE:HB2	2.02	0.41
44:BK:3:GLU:N	44:BK:3:GLU:OE1	2.54	0.41
45:BL:320:ARG:NH1	45:BL:320:ARG:HG2	2.36	0.41
45:BN:419:VAL:HG13	45:BN:420:SER:N	2.36	0.41
44:CA:66:VAL:HG22	44:CA:68:LEU:CD1	2.51	0.41
44:CA:399:TYR:OH	44:CA:418:PHE:HB2	2.21	0.41
45:CB:99:ASN:C	45:CB:142:GLY:HA3	2.40	0.41
45:CD:46:ARG:HD2	45:CD:46:ARG:HA	1.83	0.41
44:CE:284:GLU:HG3	44:CE:286:LEU:CD2	2.40	0.41
45:CF:256:ASN:CG	45:CF:350:LYS:HD2	2.41	0.41
44:CG:287:SER:O	44:CG:290:GLU:HG2	2.21	0.41
45:CH:36:TYR:CZ	45:CH:38:GLY:CA	3.04	0.41
45:CH:251:ARG:HG2	44:CI:100:ALA:CB	2.50	0.41
45:CH:259:PRO:HB3	44:CI:404:PHE:CZ	2.55	0.41
45:CH:324:LYS:HB2	44:CI:210:TYR:CE1	2.55	0.41
45:CJ:1:MET:C	45:CJ:2:ARG:HG2	2.41	0.41
45:CJ:86:ARG:HD2	45:DJ:281:TYR:HA	2.03	0.41
45:CJ:101:TRP:HB3	45:CJ:398:TYR:CE2	2.49	0.41
45:CJ:241:ARG:O	45:CJ:242:PHE:HD1	2.03	0.41
45:CJ:262:ARG:HB2	45:CJ:262:ARG:CZ	2.51	0.41
45:CL:100:ASN:ND2	45:CL:401:GLU:OE1	2.53	0.41
45:CL:212:PHE:C	45:CL:213:ARG:HD3	2.41	0.41
45:CL:222:TYR:HD2	48:CL:501:GDP:O6	2.04	0.41
45:CL:311:LEU:HD12	45:CL:312:THR:CG2	2.47	0.41
44:CM:18:ASN:O	44:CM:21:TRP:N	2.53	0.41
44:CM:26:LEU:HD21	44:CM:364:PRO:HD3	2.02	0.41
45:CN:12:CYS:SG	45:CN:138:SER:HB3	2.60	0.41
45:CN:85:PHE:HB3	45:CN:90:PHE:CE2	2.56	0.41
45:CN:200:MET:HE2	45:CN:268:ILE:CG2	2.51	0.41
44:DA:3:GLU:HB3	44:DA:64:ARG:NE	2.36	0.41
44:DA:172:TYR:O	44:DA:205:ASP:HA	2.21	0.41
44:DC:88:HIS:HB3	44:DC:91:GLN:CD	2.41	0.41
44:DC:278:ALA:HA	44:DC:369:ALA:CB	2.46	0.41
45:DD:49:VAL:HG11	45:DD:241:ARG:HD3	2.03	0.41
45:DD:269:GLY:O	45:DD:367:PHE:HB3	2.21	0.41
44:DE:236:SER:O	44:DE:240:ALA:HB2	2.21	0.41
44:DE:302:MET:HB3	44:DE:302:MET:HE2	1.93	0.41
45:DH:314:SER:HG	45:DH:315:ALA:N	2.18	0.41
44:DI:2:ARG:HA	44:DI:131:GLY:HA3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DI:26:LEU:O	44:DI:26:LEU:HG	2.21	0.41
44:DI:141:VAL:HG23	44:DI:190:SER:OG	2.20	0.41
45:DJ:1:MET:CE	44:DK:96:LYS:HA	2.50	0.41
45:DJ:300:MET:SD	45:DJ:300:MET:N	2.94	0.41
44:DK:439:THR:HG21	45:DL:390:ARG:HD2	2.03	0.41
45:DL:101:TRP:HD1	45:DL:145:SER:OG	2.04	0.41
45:DL:285:THR:OG1	45:DL:288:GLU:HG2	2.21	0.41
45:DL:385:PHE:CE2	45:DL:412:GLU:HB2	2.55	0.41
44:DM:21:TRP:CE3	44:DM:24:PHE:HD2	2.38	0.41
44:DM:191:THR:HA	44:DM:194:LEU:HG	2.02	0.41
44:DM:254:GLU:CD	45:DN:98:GLY:HA2	2.41	0.41
44:DM:320:ARG:HA	44:DM:356:ASN:C	2.40	0.41
45:DN:100:ASN:ND2	45:DN:103:LYS:HB2	2.35	0.41
45:DN:327:ASP:HA	45:DN:330:MET:HG2	2.03	0.41
45:DN:332:ASN:O	45:DN:336:LYS:N	2.47	0.41
44:EA:103:PHE:CD2	44:EA:189:LEU:HD13	2.55	0.41
45:EB:343:GLU:O	45:EB:345:ILE:N	2.53	0.41
45:EB:377:MET:HG3	45:EB:378:PHE:N	2.36	0.41
45:ED:253:LEU:HB3	45:ED:257:LEU:HD13	2.02	0.41
44:EE:249:ASN:OD1	44:EE:250:VAL:N	2.53	0.41
45:EF:49:VAL:HG11	45:EF:241:ARG:CD	2.50	0.41
45:EF:181:GLU:N	45:EF:182:PRO:CD	2.83	0.41
44:EG:63:PRO:O	44:EG:91:GLN:NE2	2.52	0.41
44:EG:105:ARG:HG3	44:EG:411:GLU:CG	2.40	0.41
44:EG:205:ASP:OD1	44:EG:303:ALA:HA	2.20	0.41
44:EG:272:TYR:HD2	44:EG:275:ILE:CD1	2.28	0.41
44:EG:288:VAL:C	44:EG:291:ILE:HG12	2.40	0.41
44:EG:296:PHE:CE1	44:EG:317:MET:HE3	2.56	0.41
45:EH:163:ILE:CG2	45:EH:251:ARG:HH11	2.34	0.41
45:EJ:239:CYS:HA	45:EJ:354:CYS:SG	2.60	0.41
44:EK:168:GLY:C	44:EK:169:PHE:HD1	2.23	0.41
44:EK:203:MET:HB2	44:EK:269:LEU:HA	2.03	0.41
45:EL:118:ASP:OD1	45:EL:118:ASP:C	2.56	0.41
45:EL:153:SER:HA	45:EL:156:ARG:NH1	2.35	0.41
45:EL:317:PHE:HB2	45:EL:353:ILE:HG13	2.02	0.41
44:EM:209:ILE:HB	44:EM:227:LEU:HD22	2.02	0.41
44:EM:270:SER:O	44:EM:302:MET:HB3	2.20	0.41
44:EM:298:PRO:O	44:EM:301:MET:HG2	2.21	0.41
45:EN:101:TRP:HB3	45:EN:398:TYR:HE2	1.85	0.41
45:EN:216:LYS:NZ	45:EN:275:SER:OG	2.35	0.41
44:FA:276:ILE:CD1	44:FA:286:LEU:HD11	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FB:217:LEU:HD11	45:FB:220:PRO:CG	2.50	0.41
45:FB:258:ILE:HG23	45:FB:260:PHE:O	2.21	0.41
45:FB:419:VAL:O	45:FB:423:GLN:HG3	2.21	0.41
44:FC:209:ILE:HG21	44:FC:227:LEU:HD22	2.02	0.41
45:FD:405:GLU:HA	45:FD:408:PHE:HD2	1.86	0.41
44:FE:14:ILE:O	44:FE:18:ASN:N	2.33	0.41
45:FF:7:ILE:O	45:FF:135:ILE:HD13	2.20	0.41
45:FF:9:GLY:HA3	45:FF:66:MET:HE2	2.02	0.41
45:FF:318:ARG:HB2	45:FF:364:ALA:O	2.20	0.41
44:FG:223:THR:HG23	44:FG:225:THR:H	1.84	0.41
44:FG:248:LEU:HA	45:FJ:11:GLN:OE1	2.21	0.41
45:FH:49:VAL:CB	45:FH:241:ARG:HG2	2.50	0.41
45:FH:132:GLY:HA2	45:FH:163:ILE:O	2.20	0.41
45:FH:263:LEU:HD23	45:FH:422:TYR:HE1	1.86	0.41
45:FH:391:ARG:CZ	45:FH:391:ARG:HB2	2.51	0.41
45:FJ:86:ARG:NH2	45:FJ:87:PRO:HG2	2.28	0.41
44:FK:221:ARG:NH2	45:FL:321:MET:HG3	2.35	0.41
44:FK:255:PHE:O	44:FK:259:LEU:HD12	2.21	0.41
45:FL:210:ILE:HG22	45:FL:214:THR:OG1	2.21	0.41
45:FL:359:LYS:HG3	45:FL:359:LYS:O	2.21	0.41
45:FN:14:ASN:HD21	45:FN:67:ASP:HB2	1.86	0.41
45:FN:218:THR:HG1	45:FN:219:THR:N	2.18	0.41
45:FN:390:ARG:O	45:FN:392:LYS:HD2	2.21	0.41
44:GA:298:PRO:HA	44:GA:307:PRO:CG	2.51	0.41
45:GB:68:LEU:HD12	45:GB:93:GLY:HA3	2.01	0.41
45:GB:122:LYS:HE2	45:GB:122:LYS:CA	2.43	0.41
44:GC:115:VAL:HG22	44:GC:119:LEU:CD2	2.48	0.41
45:GD:64:ILE:HD11	45:GD:123:GLU:HG3	2.02	0.41
44:GE:183:GLU:O	44:GE:187:SER:HB2	2.20	0.41
44:GE:251:ASP:O	44:GE:254:GLU:N	2.41	0.41
44:GE:268:MET:CG	44:GE:378:ILE:HG22	2.51	0.41
45:GF:296:ALA:HA	45:GF:299:MET:CE	2.50	0.41
44:GG:392:ASP:HB2	44:GG:429:GLU:OE2	2.20	0.41
44:GI:20:CYS:HA	44:GI:232:ALA:CB	2.48	0.41
44:GI:340:THR:HG23	44:GI:341:ILE:HG13	2.01	0.41
45:GJ:286:VAL:CG2	45:GJ:287:PRO:CD	2.92	0.41
45:GJ:360:GLY:O	45:GJ:361:LEU:HD23	2.21	0.41
44:GK:112:LYS:O	44:GK:114:ILE:N	2.53	0.41
44:GK:172:TYR:HB2	44:GK:203:MET:HE2	2.03	0.41
44:GM:10:GLY:O	44:GM:13:GLY:N	2.53	0.41
44:GM:26:LEU:CD2	44:GM:364:PRO:HD3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:71:GLU:OE1	44:GM:73:THR:HB	2.21	0.41
44:GM:318:MET:O	44:GM:375:VAL:HG23	2.20	0.41
44:GM:344:VAL:HG21	44:GM:346:TRP:CE2	2.55	0.41
45:GN:113:ILE:HD11	45:GN:151:LEU:CB	2.51	0.41
45:GN:385:PHE:O	45:GN:386:THR:CB	2.68	0.41
45:HB:105:HIS:NE2	45:HB:150:LEU:HB2	2.36	0.41
45:HB:180:VAL:HG23	45:HB:183:TYR:CD2	2.55	0.41
44:HC:104:ALA:HB2	44:HC:408:TYR:CD2	2.53	0.41
44:HE:275:ILE:HA	44:HE:368:LEU:CD1	2.50	0.41
45:HF:172:SER:OG	45:HF:205:GLU:OE1	2.37	0.41
44:HG:205:ASP:OD1	44:HG:304:LYS:N	2.52	0.41
45:HJ:267:MET:HG2	45:HJ:369:GLY:O	2.21	0.41
44:HK:79:ARG:O	44:HK:84:ARG:HG3	2.21	0.41
45:HL:113:ILE:HD13	45:HL:150:LEU:CD2	2.41	0.41
45:HL:237:THR:OG1	45:HL:240:LEU:HB3	2.21	0.41
45:HL:309:ARG:NH2	45:HL:341:PHE:CA	2.81	0.41
44:HM:81:GLY:O	44:HM:84:ARG:HG2	2.21	0.41
44:HM:222:PRO:CG	45:HN:324:LYS:HD3	2.49	0.41
44:HM:287:SER:CA	44:HM:290:GLU:HG2	2.50	0.41
45:HN:101:TRP:HE1	45:HN:146:GLY:CA	2.34	0.41
45:HN:181:GLU:N	45:HN:182:PRO:CD	2.84	0.41
44:IA:6:SER:OG	44:IA:21:TRP:HZ2	2.04	0.41
44:IA:24:PHE:C	44:IA:27:GLU:HG3	2.39	0.41
44:IA:79:ARG:HG3	44:IA:92:LEU:HD22	2.03	0.41
44:IA:310:GLY:HA3	44:IA:382:THR:OG1	2.20	0.41
44:IC:224:TYR:CE2	46:ID:501:GTP:C5	3.09	0.41
45:ID:280:GLN:N	45:ID:280:GLN:OE1	2.54	0.41
45:ID:318:ARG:HE	45:ID:358:PRO:HG3	1.86	0.41
45:IF:65:LEU:C	45:IF:73:MET:HE3	2.41	0.41
45:IF:180:VAL:HG21	45:IF:398:TYR:OH	2.20	0.41
45:IF:213:ARG:HE	45:IF:297:LYS:HE2	1.85	0.41
44:IG:272:TYR:CD2	44:IG:275:ILE:HD11	2.55	0.41
44:IG:326:LYS:HD2	44:IG:327:ASP:N	2.36	0.41
45:IJ:167:PHE:CD1	45:IJ:200:MET:HE2	2.56	0.41
45:IJ:290:THR:HG21	45:IJ:329:GLN:OE1	2.20	0.41
44:IK:9:VAL:HG21	44:IK:149:LEU:HB3	2.03	0.41
44:IK:195:LEU:HD12	44:IK:428:LEU:HD22	2.03	0.41
44:IK:284:GLU:O	44:IK:286:LEU:HD23	2.21	0.41
45:IL:317:PHE:HD2	45:IL:321:MET:SD	2.44	0.41
45:IN:76:VAL:HG13	45:IN:77:ARG:N	2.36	0.41
45:IN:134:GLN:HG2	45:IN:165:GLU:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JA:345:ASP:OD2	44:JA:438:GLU:HA	2.21	0.41
46:JA:501:GTP:H5''	45:JB:246:LEU:HD22	2.03	0.41
45:JB:22:GLU:O	45:JB:26:ASP:N	2.50	0.41
45:JB:77:ARG:HH11	45:JB:77:ARG:HG2	1.85	0.41
45:JB:256:ASN:HB3	45:JB:350:LYS:HD2	2.02	0.41
44:JC:141:VAL:HG22	44:JC:190:SER:OG	2.20	0.41
44:JC:324:VAL:CG1	44:JC:326:LYS:HE2	2.51	0.41
44:JC:328:VAL:O	44:JC:332:ILE:HG13	2.21	0.41
45:JD:4:ILE:CD1	45:JD:50:TYR:HE1	2.33	0.41
45:JD:91:VAL:HG23	45:JD:91:VAL:O	2.20	0.41
45:JD:332:ASN:OD1	45:JD:336:LYS:HD3	2.20	0.41
45:JD:391:ARG:HH11	45:JD:391:ARG:HG3	1.86	0.41
44:JE:41:THR:O	44:JE:42:ILE:HB	2.21	0.41
44:JE:377:MET:SD	44:JE:379:SER:HB3	2.60	0.41
44:JG:320:ARG:CG	44:JG:360:PRO:HG3	2.50	0.41
45:JH:66:MET:HG3	45:JH:116:VAL:CG2	2.45	0.41
45:JH:113:ILE:HA	45:JH:116:VAL:CG1	2.41	0.41
44:JI:288:VAL:CG2	44:JI:323:VAL:HG23	2.51	0.41
44:JI:350:GLY:HA2	45:JL:179:VAL:HG12	2.03	0.41
45:JJ:67:ASP:H	45:JJ:73:MET:HE2	1.86	0.41
45:JJ:296:ALA:HB2	45:JJ:306:ARG:HE	1.86	0.41
44:JK:119:LEU:HD11	44:JK:156:ARG:HG3	2.02	0.41
44:JK:258:ASN:CA	45:JN:179:VAL:HG21	2.51	0.41
44:JM:50:ASN:OD1	44:JM:51:THR:N	2.53	0.41
44:JM:105:ARG:HG3	44:JM:411:GLU:HG3	2.03	0.41
44:JM:215:ARG:HH22	44:JM:300:ASN:HD21	1.69	0.41
44:JM:398:MET:HB2	45:JN:345:ILE:HA	2.02	0.41
44:KA:138:PHE:CE1	44:KA:169:PHE:HD2	2.35	0.41
44:KA:259:LEU:HD13	44:KA:268:MET:CE	2.51	0.41
44:KA:349:THR:OG1	45:KD:176:SER:HB2	2.21	0.41
44:KC:344:VAL:HG22	44:KC:345:ASP:N	2.35	0.41
44:KE:11:GLN:HG3	44:KE:12:GLY:N	2.35	0.41
44:KE:69:ASP:OD1	44:KE:145:THR:HG21	2.21	0.41
44:KE:222:PRO:HD2	45:KF:324:LYS:CD	2.51	0.41
44:KG:18:ASN:O	44:KG:22:GLU:OE1	2.39	0.41
44:KG:67:PHE:O	44:KG:68:LEU:HD22	2.20	0.41
45:KH:101:TRP:CD2	45:KH:187:LEU:HD23	2.56	0.41
45:KH:163:ILE:HG13	45:KH:251:ARG:HG2	2.01	0.41
45:KH:409:THR:HG23	45:KH:410:GLU:N	2.35	0.41
45:KJ:8:GLN:CD	45:KJ:17:GLY:HA3	2.41	0.41
44:KK:1:MET:SD	45:KN:94:GLN:HB3	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:10:GLY:O	44:KK:14:ILE:HG13	2.21	0.41
44:KK:344:VAL:HG13	44:KK:346:TRP:NE1	2.36	0.41
45:KL:131:GLN:HE22	45:KL:250:LEU:HD12	1.85	0.41
45:KL:193:VAL:HG21	45:KL:418:LEU:HD12	2.01	0.41
45:KL:248:SER:CB	45:KL:252:LYS:HD2	2.51	0.41
44:KM:167:LEU:HD21	44:KM:255:PHE:CE2	2.55	0.41
45:KN:183:TYR:CB	45:KN:398:TYR:CE2	2.99	0.41
45:KN:198:GLU:HA	45:KN:264:HIS:HB2	2.03	0.41
44:LA:60:LYS:CD	44:MA:283:HIS:HB3	2.40	0.41
44:LA:120:ASP:O	44:LA:123:ARG:N	2.54	0.41
44:LA:178:SER:HB3	44:LA:183:GLU:OE2	2.20	0.41
45:LB:203:ASP:OD2	45:LB:302:ALA:N	2.40	0.41
45:LD:66:MET:SD	45:LD:66:MET:C	2.99	0.41
45:LD:102:ALA:HB1	45:LD:401:GLU:HG2	2.03	0.41
44:LE:6:SER:C	44:LE:7:ILE:HD13	2.41	0.41
44:LE:9:VAL:HG12	44:LE:139:ASN:HB3	2.03	0.41
44:LE:387:VAL:HG23	44:LE:388:PHE:N	2.36	0.41
45:LF:287:PRO:O	45:LF:290:THR:HG22	2.21	0.41
45:LF:386:THR:HG23	45:LF:387:ALA:N	2.35	0.41
45:LH:382:ALA:HA	45:LH:415:MET:HE1	2.02	0.41
44:LI:280:LYS:O	44:LI:284:GLU:OE1	2.38	0.41
45:LJ:107:THR:HG23	45:LJ:108:GLU:H	1.85	0.41
45:LJ:173:PRO:HG2	45:LJ:380:ARG:HD2	2.02	0.41
45:LL:62:ARG:NH1	45:LL:127:CYS:SG	2.94	0.41
45:LL:193:VAL:HA	45:LL:264:HIS:CE1	2.55	0.41
44:LM:272:TYR:CD1	44:LM:273:ALA:N	2.88	0.41
45:LN:242:PHE:CD2	45:LN:356:ILE:HB	2.52	0.41
45:LN:262:ARG:HH11	45:LN:262:ARG:HG3	1.86	0.41
45:LN:312:THR:OG1	45:LN:370:ASN:HB3	2.20	0.41
45:LN:379:LYS:O	45:LN:382:ALA:N	2.54	0.41
44:MA:66:VAL:HG22	44:MA:68:LEU:HD11	2.02	0.41
44:MA:229:ARG:HH11	44:MA:229:ARG:HG2	1.85	0.41
44:MA:259:LEU:CD1	44:MA:378:ILE:HG22	2.51	0.41
45:MB:244:GLY:HA2	45:MB:355:ASP:OD2	2.20	0.41
45:MB:332:ASN:O	45:MB:336:LYS:HG2	2.21	0.41
45:MB:376:GLU:O	45:MB:380:ARG:HG3	2.21	0.41
44:MC:258:ASN:HA	45:MF:179:VAL:CG1	2.50	0.41
44:ME:182:VAL:C	44:ME:184:PRO:HD2	2.41	0.41
44:ME:237:SER:HA	44:ME:320:ARG:NH1	2.31	0.41
44:ME:326:LYS:CD	45:MH:220:PRO:HD2	2.28	0.41
45:MF:21:TRP:HH2	45:MF:50:TYR:O	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MF:105:HIS:O	45:MF:110:ALA:HB2	2.20	0.41
45:MF:209:ASP:O	45:MF:213:ARG:HB2	2.21	0.41
45:MF:281:TYR:CD1	45:MF:281:TYR:N	2.87	0.41
44:MG:103:PHE:H	44:MG:408:TYR:HE2	1.69	0.41
44:MG:339:ARG:HG3	44:MG:339:ARG:NH1	2.35	0.41
45:MH:242:PHE:HD2	45:MH:356:ILE:HB	1.86	0.41
44:MI:88:HIS:ND1	44:MI:89:PRO:HD2	2.35	0.41
44:MI:294:SER:HA	44:MI:297:GLU:OE2	2.21	0.41
45:MJ:8:GLN:O	45:MJ:66:MET:HG2	2.20	0.41
45:MJ:273:LEU:HD23	45:MJ:273:LEU:HA	1.84	0.41
44:MK:316:SER:HA	44:MK:352:LYS:H	1.86	0.41
45:ML:311:LEU:HD12	45:ML:370:ASN:OD1	2.20	0.41
45:ML:377:MET:O	45:ML:380:ARG:HG2	2.20	0.41
44:MM:250:VAL:CG1	44:MM:255:PHE:HE1	2.34	0.41
45:MN:144:GLY:O	45:MN:148:GLY:N	2.49	0.41
45:MN:344:TRP:HE3	45:MN:344:TRP:O	2.03	0.41
44:NA:9:VAL:HG12	44:NA:68:LEU:HB2	2.02	0.41
45:NB:4:ILE:O	45:NB:4:ILE:HG13	2.21	0.41
45:NB:32:PRO:HB3	45:NB:81:PHE:HD1	1.86	0.41
45:NB:81:PHE:O	45:NB:84:LEU:HD13	2.20	0.41
44:NC:21:TRP:CZ2	44:NC:65:ALA:HB2	2.55	0.41
44:NC:77:GLU:HG3	45:ND:243:PRO:HB3	2.03	0.41
44:NC:269:LEU:HB2	44:NC:303:ALA:CB	2.51	0.41
45:ND:264:HIS:O	45:ND:265:PHE:HD1	2.03	0.41
45:ND:320:ARG:HE	45:ND:355:ASP:CA	2.33	0.41
44:NE:88:HIS:CD2	44:OE:283:HIS:HB2	2.56	0.41
44:NE:194:LEU:O	44:NE:198:THR:HG22	2.20	0.41
44:NE:384:ILE:HG23	44:NE:432:TYR:CE2	2.55	0.41
45:NF:5:VAL:HG12	45:NF:133:PHE:CD1	2.55	0.41
45:NF:167:PHE:CZ	45:NF:200:MET:HE3	2.55	0.41
45:NH:31:ASP:OD1	45:NH:35:THR:N	2.54	0.41
44:NI:209:ILE:CG2	44:NI:227:LEU:HD12	2.50	0.41
45:NJ:109:GLY:O	45:NJ:113:ILE:HB	2.21	0.41
45:NJ:306:ARG:HG2	45:NJ:340:TYR:CZ	2.56	0.41
45:NJ:343:GLU:HG2	45:NJ:344:TRP:N	2.35	0.41
45:NL:152:ILE:HD12	45:NL:152:ILE:H	1.85	0.41
45:NL:263:LEU:HD22	45:NL:422:TYR:CE1	2.56	0.41
44:NM:265:ILE:HD13	44:NM:435:VAL:HG21	2.03	0.41
45:NN:107:THR:CG2	45:NN:108:GLU:N	2.81	0.41
45:NN:143:THR:OG1	45:NN:147:MET:HE1	2.21	0.41
45:NN:238:CYS:O	45:NN:241:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NN:239:CYS:HA	45:NN:354:CYS:SG	2.61	0.41
44:OA:23:LEU:HD23	44:OA:232:ALA:O	2.20	0.41
44:OA:189:LEU:HD11	44:OA:418:PHE:CD1	2.55	0.41
44:OA:294:SER:HA	44:OA:297:GLU:OE2	2.21	0.41
45:OB:23:VAL:CG1	45:OB:234:SER:HB3	2.51	0.41
45:OB:273:LEU:H	45:OB:273:LEU:HD23	1.85	0.41
45:OB:328:GLU:HA	45:OB:331:LEU:HB3	2.03	0.41
44:OC:102:ASN:HB3	44:OC:105:ARG:HG3	2.03	0.41
44:OC:173:PRO:HG2	44:OC:391:LEU:HD21	2.03	0.41
44:OC:307:PRO:HB3	44:OC:312:TYR:HE1	1.82	0.41
44:OC:344:VAL:HG22	44:OC:345:ASP:N	2.35	0.41
45:OD:175:VAL:CG1	45:OD:205:GLU:HB2	2.49	0.41
44:OE:49:PHE:O	44:OE:53:PHE:HB2	2.20	0.41
45:OF:116:VAL:HA	45:OF:119:VAL:HG12	2.03	0.41
45:OF:200:MET:HE1	45:OF:266:PHE:HB2	2.01	0.41
45:OF:305:PRO:HA	45:OF:373:ALA:CB	2.51	0.41
44:OG:161:TYR:O	44:OG:164:LYS:NZ	2.36	0.41
44:OG:178:SER:HB2	45:OH:347:ASN:ND2	2.35	0.41
44:OG:254:GLU:OE1	44:OG:254:GLU:N	2.54	0.41
44:OG:277:SER:H	44:OG:280:LYS:NZ	2.19	0.41
44:OG:326:LYS:CE	45:OJ:220:PRO:HG3	2.51	0.41
45:OH:202:ILE:HG22	45:OH:203:ASP:N	2.35	0.41
44:OI:236:SER:O	44:OI:240:ALA:N	2.54	0.41
45:OJ:198:GLU:OE1	45:OJ:266:PHE:HE2	2.03	0.41
44:OK:1:MET:CE	45:ON:94:GLN:HG3	2.51	0.41
45:OL:202:ILE:CD1	45:OL:268:ILE:HD11	2.50	0.41
44:PC:6:SER:HA	44:PC:136:LEU:HB2	2.02	0.41
44:PC:154:LEU:HD13	44:PC:166:LYS:HZ1	1.86	0.41
44:PC:224:TYR:HB3	46:PC:501:GTP:O6	2.20	0.41
45:PD:135:ILE:HG13	45:PD:152:ILE:HD13	2.03	0.41
44:PE:14:ILE:HD11	44:PE:68:LEU:O	2.20	0.41
44:PE:25:CYS:HA	44:PE:30:ILE:CG2	2.50	0.41
44:PE:219:ILE:HG22	44:PE:222:PRO:HG3	2.02	0.41
44:PE:270:SER:HB2	44:PE:378:ILE:CD1	2.50	0.41
44:PE:404:PHE:HE1	45:PF:259:PRO:HA	1.80	0.41
45:PF:86:ARG:HD2	45:QD:281:TYR:HD2	1.85	0.41
44:PI:252:ILE:O	44:PI:252:ILE:HG22	2.19	0.41
44:PI:255:PHE:N	44:PI:255:PHE:CD1	2.87	0.41
45:PJ:119:VAL:CB	45:PJ:122:LYS:HZ3	2.34	0.41
45:PL:113:ILE:O	45:PL:116:VAL:HG12	2.21	0.41
45:PL:221:THR:O	45:PL:224:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PL:403:MET:HE3	45:PL:407:GLU:OE2	2.20	0.41
45:PN:135:ILE:HG13	45:PN:152:ILE:CD1	2.51	0.41
45:PN:149:THR:O	45:PN:152:ILE:N	2.54	0.41
45:PN:169:VAL:HG22	45:PN:202:ILE:CG2	2.51	0.41
44:QA:237:SER:OG	44:QA:320:ARG:NE	2.54	0.41
44:QA:296:PHE:HD2	44:QA:335:ILE:CD1	2.34	0.41
45:QB:215:LEU:O	45:QB:216:LYS:CG	2.68	0.41
45:QB:285:THR:O	45:QB:288:GLU:N	2.53	0.41
45:QB:342:VAL:HG22	45:QB:343:GLU:N	2.36	0.41
44:QC:185:TYR:OH	44:QC:404:PHE:HB2	2.21	0.41
44:QC:316:SER:O	44:QC:378:ILE:HB	2.20	0.41
45:QF:105:HIS:HD1	45:QF:106:TYR:HD1	1.66	0.41
45:QF:425:TYR:N	45:QF:425:TYR:CD1	2.89	0.41
44:QG:3:GLU:O	44:QG:133:GLN:HG2	2.20	0.41
44:QG:55:GLU:HG3	44:QG:57:GLY:N	2.35	0.41
45:QH:36:TYR:C	45:QH:37:HIS:HD1	2.24	0.41
45:QH:143:THR:CG2	45:QH:144:GLY:N	2.83	0.41
45:QH:165:GLU:OE2	45:QH:250:LEU:HD22	2.19	0.41
44:QI:199:ASP:O	44:QI:266:HIS:HB3	2.20	0.41
45:QJ:178:THR:CB	45:QJ:181:GLU:HG3	2.34	0.41
45:QJ:256:ASN:OD1	45:QJ:350:LYS:HD2	2.20	0.41
44:QK:103:PHE:CD2	44:QK:189:LEU:HD13	2.56	0.41
45:QL:105:HIS:HD2	45:QL:150:LEU:HB2	1.77	0.41
45:QL:178:THR:HB	45:QL:181:GLU:OE2	2.21	0.41
45:QL:211:CYS:HA	45:QL:215:LEU:HD21	2.03	0.41
45:QL:213:ARG:HH21	45:QL:297:LYS:HD2	1.85	0.41
44:QM:89:PRO:HG2	44:RM:280:LYS:HE3	2.02	0.41
45:QN:315:ALA:N	45:QN:350:LYS:O	2.51	0.41
44:RA:289:ALA:CA	44:RA:292:THR:HG22	2.48	0.41
45:RB:247:ASN:HD21	44:RC:73:THR:HB	1.86	0.41
45:RD:318:ARG:HH11	45:RD:358:PRO:CG	2.29	0.41
44:RE:89:PRO:HD3	44:SE:280:LYS:NZ	2.35	0.41
44:RE:259:LEU:HD13	44:RE:268:MET:HE3	2.03	0.41
44:RG:103:PHE:N	44:RG:408:TYR:HE2	2.19	0.41
45:RH:86:ARG:HD3	45:RH:88:ASP:HB3	2.02	0.41
45:RH:228:LEU:CD2	45:RH:273:LEU:HD22	2.50	0.41
44:RI:138:PHE:CZ	44:RI:235:ILE:HD12	2.55	0.41
44:RI:198:THR:HG22	44:RI:199:ASP:H	1.86	0.41
44:RI:232:ALA:HA	44:RI:235:ILE:CG1	2.50	0.41
44:RI:388:PHE:HE2	44:RI:432:TYR:HH	1.68	0.41
45:RJ:7:ILE:HG23	45:RJ:135:ILE:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:314:SER:HA	45:RJ:350:LYS:O	2.20	0.41
44:RK:259:LEU:HD22	44:RK:268:MET:HE1	2.02	0.41
45:RL:207:LEU:HD23	45:RL:300:MET:HB2	2.02	0.41
45:RL:286:VAL:CG1	45:RL:329:GLN:HG3	2.48	0.41
44:RM:288:VAL:O	44:RM:291:ILE:HG12	2.21	0.41
45:RN:77:ARG:CA	45:RN:82:GLY:HA3	2.46	0.41
45:SB:21:TRP:CZ2	45:SB:63:ALA:HB2	2.56	0.41
45:SB:64:ILE:C	45:SB:65:LEU:HD12	2.41	0.41
44:SC:288:VAL:HG11	44:SC:327:ASP:HB3	2.03	0.41
45:SD:4:ILE:CG1	45:SD:50:TYR:HE1	2.33	0.41
44:SE:298:PRO:O	44:SE:301:MET:SD	2.79	0.41
44:SG:104:ALA:HB2	44:SG:413:MET:CG	2.51	0.41
44:SG:254:GLU:O	44:SG:255:PHE:CD1	2.74	0.41
44:SG:313:MET:HG3	44:SG:382:THR:HG23	2.03	0.41
45:SH:101:TRP:CE3	45:SH:187:LEU:HD13	2.55	0.41
44:SI:161:TYR:CD2	44:SI:164:LYS:HG3	2.54	0.41
45:SJ:97:ALA:CA	45:SJ:103:LYS:HD2	2.50	0.41
45:SJ:333:VAL:O	45:SJ:333:VAL:HG12	2.20	0.41
44:SK:183:GLU:HG2	44:SK:184:PRO:N	2.36	0.41
44:SK:270:SER:HB3	44:SK:378:ILE:HA	2.02	0.41
45:SL:311:LEU:O	45:SL:348:ASN:ND2	2.46	0.41
44:SM:49:PHE:HB2	44:SM:53:PHE:CA	2.51	0.41
44:SM:71:GLU:OE1	44:SM:73:THR:N	2.53	0.41
44:SM:274:PRO:HG3	44:SM:286:LEU:HD12	2.02	0.41
45:TB:180:VAL:HG22	45:TB:183:TYR:HB2	2.02	0.41
45:TB:398:TYR:O	45:TB:403:MET:HB3	2.19	0.41
44:TC:24:PHE:O	44:TC:28:HIS:N	2.54	0.41
44:TC:67:PHE:C	44:TC:68:LEU:HD12	2.41	0.41
44:TC:312:TYR:HD2	44:TC:343:PHE:CE1	2.38	0.41
45:TD:8:GLN:OE1	45:TD:17:GLY:HA3	2.20	0.41
45:TD:180:VAL:HG21	45:TD:398:TYR:CE2	2.56	0.41
45:TD:326:VAL:HG13	45:TD:327:ASP:N	2.35	0.41
45:TF:270:PHE:CD2	45:TF:273:LEU:HD21	2.55	0.41
45:TF:310:TYR:HB2	45:TF:341:PHE:CD2	2.55	0.41
44:TG:147:SER:CB	44:TG:190:SER:HB3	2.42	0.41
44:TG:203:MET:HE3	44:TG:384:ILE:HG12	2.03	0.41
45:TH:2:ARG:HB3	44:TI:72:PRO:CB	2.38	0.41
45:TH:6:HIS:HB3	45:TH:63:ALA:HB2	2.03	0.41
45:TH:300:MET:O	45:TH:300:MET:HG2	2.19	0.41
45:TH:372:THR:HA	45:TH:422:TYR:CE2	2.55	0.41
44:TI:16:VAL:HG13	44:TI:17:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:97:GLU:CG	44:TI:105:ARG:HH22	2.29	0.41
45:TJ:47:ILE:HG13	45:TJ:51:TYR:CD2	2.55	0.41
45:TJ:113:ILE:O	45:TJ:117:LEU:CB	2.69	0.41
45:TJ:323:THR:O	45:TJ:324:LYS:C	2.59	0.41
44:TK:104:ALA:HB2	44:TK:408:TYR:HD2	1.85	0.41
45:TL:322:SER:HB2	44:TM:223:THR:HB	2.02	0.41
45:TN:22:GLU:O	45:TN:25:SER:HB2	2.21	0.41
45:TN:321:MET:CE	45:TN:326:VAL:HG21	2.50	0.41
44:UA:3:GLU:CA	44:UA:51:THR:HA	2.32	0.41
44:UA:260:VAL:HG21	44:UA:266:HIS:HB2	2.02	0.41
45:UB:60:VAL:CG2	45:UB:86:ARG:HG2	2.44	0.41
45:UB:67:ASP:O	45:UB:92:PHE:HA	2.21	0.41
45:UB:322:SER:HB2	44:UC:223:THR:CB	2.49	0.41
45:UB:330:MET:HE2	45:UB:349:ILE:O	2.20	0.41
44:UC:4:VAL:HG23	44:UC:134:GLY:O	2.19	0.41
44:UC:252:ILE:HG13	44:UC:255:PHE:CE2	2.55	0.41
45:UH:106:TYR:HE2	45:UH:403:MET:SD	2.43	0.41
45:UH:267:MET:HG3	45:UH:301:CYS:SG	2.60	0.41
45:UH:398:TYR:C	45:UH:403:MET:HB2	2.41	0.41
45:UJ:19:LYS:HA	45:UJ:22:GLU:HB2	2.03	0.41
45:UJ:22:GLU:HG2	45:UJ:81:PHE:CB	2.50	0.41
44:UK:7:ILE:HG22	44:UK:8:HIS:N	2.36	0.41
44:UK:67:PHE:C	44:UK:68:LEU:HD12	2.40	0.41
44:UK:265:ILE:HD12	44:UK:432:TYR:CD1	2.56	0.41
45:UL:24:ILE:HD11	45:UL:234:SER:CB	2.50	0.41
45:UL:41:ASP:O	45:UL:45:GLU:HG3	2.20	0.41
45:UL:46:ARG:HA	45:UL:46:ARG:NE	2.36	0.41
45:UL:72:THR:CG2	45:UL:73:MET:N	2.83	0.41
44:UM:50:ASN:OD1	44:UM:50:ASN:C	2.59	0.41
44:UM:276:ILE:HG23	44:UM:281:ALA:CB	2.50	0.41
45:UN:266:PHE:HD1	45:UN:370:ASN:HB2	1.75	0.41
44:VA:319:TYR:HA	44:VA:375:VAL:HA	2.03	0.41
44:VC:2:ARG:O	44:VC:2:ARG:HG2	2.19	0.41
44:VC:201:ALA:HB3	44:VC:267:PHE:HD1	1.85	0.41
45:VD:213:ARG:NE	45:VD:297:LYS:HD2	2.31	0.41
45:VD:372:THR:CA	45:VD:422:TYR:HE2	2.15	0.41
44:VE:237:SER:CA	44:VE:320:ARG:HH11	2.28	0.41
44:VE:276:ILE:HG23	44:VE:281:ALA:CB	2.51	0.41
45:VF:252:LYS:O	45:VF:255:VAL:HB	2.21	0.41
44:VG:69:ASP:HB3	44:VG:75:ILE:HG12	2.03	0.41
44:VG:360:PRO:HG3	44:VG:374:ALA:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VG:362:VAL:HG23	44:VG:368:LEU:O	2.21	0.41
44:VG:394:LYS:HE2	45:VH:346:PRO:CB	2.44	0.41
44:VI:315:CYS:SG	44:VI:379:SER:HB3	2.60	0.41
44:VI:362:VAL:HG23	44:VI:362:VAL:O	2.20	0.41
45:VJ:113:ILE:HG12	45:VJ:117:LEU:HD23	2.02	0.41
45:VL:7:ILE:HG21	45:VL:151:LEU:CD2	2.51	0.41
45:VL:130:LEU:CD2	45:VL:162:ARG:HG3	2.50	0.41
44:VM:14:ILE:HD11	44:VM:69:ASP:HB2	1.97	0.41
44:VM:88:HIS:CG	44:VM:89:PRO:CD	3.03	0.41
44:VM:256:GLN:HA	44:VM:260:VAL:HG23	2.03	0.41
45:VN:81:PHE:CA	45:VN:84:LEU:HD13	2.49	0.41
45:VN:99:ASN:ND2	45:VN:99:ASN:O	2.54	0.41
45:VN:293:MET:O	45:VN:299:MET:HE1	2.21	0.41
45:VN:404:ASP:O	45:VN:407:GLU:HG2	2.20	0.41
45:WB:217:LEU:HD11	45:WB:220:PRO:HA	2.02	0.41
44:WC:182:VAL:C	44:WC:184:PRO:HD2	2.41	0.41
45:WD:106:TYR:CD2	45:WD:403:MET:CE	3.04	0.41
45:WD:392:LYS:N	45:WD:392:LYS:HD2	2.36	0.41
44:WE:16:VAL:CB	44:WE:231:ILE:HD11	2.46	0.41
45:WF:262:ARG:CG	45:WF:263:LEU:HD12	2.44	0.41
44:WG:41:THR:HG23	44:WG:42:ILE:H	1.86	0.41
44:WG:260:VAL:HG12	44:WG:380:ASN:HD22	1.85	0.41
44:WG:389:SER:HA	44:WG:429:GLU:OE2	2.20	0.41
45:WJ:398:TYR:O	45:WJ:403:MET:HB2	2.21	0.41
44:WK:145:THR:HG22	46:WK:501:GTP:O1B	2.21	0.41
44:WK:152:LEU:HG	44:WK:156:ARG:NH2	2.25	0.41
45:WL:10:GLY:HA3	45:WL:144:GLY:HA3	2.03	0.41
45:WL:267:MET:HE2	45:WL:299:MET:HE3	2.02	0.41
44:WM:174:SER:O	44:WM:175:PRO:O	2.39	0.41
45:WN:133:PHE:H	45:WN:164:MET:HE2	1.86	0.41
45:WN:287:PRO:O	45:WN:290:THR:HG22	2.21	0.41
7:0F:51:THR:HG22	44:EE:219:ILE:CD1	2.43	0.41
5:1D:81:ARG:NH2	45:EF:358:PRO:O	2.54	0.41
9:1H:352:GLU:HG2	44:GA:58:ALA:HB2	2.02	0.41
20:1J:337:ASN:ND2	45:IN:218:THR:OG1	2.53	0.41
21:1K:49:GLU:CD	45:KF:216:LYS:HD3	2.41	0.41
22:1L:151:ARG:NH2	45:CH:357:PRO:HG2	2.35	0.41
22:1L:164:THR:HG21	44:BI:76:ASP:HB3	2.02	0.41
27:1W:235:THR:HB	45:LB:280:GLN:CG	2.48	0.41
2:2A:152:LYS:HG2	35:5R:82:GLN:HE21	1.85	0.41
17:2B:220:GLN:HB3	44:KK:219:ILE:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:2C:56:LYS:NZ	44:LI:84:ARG:HH12	2.18	0.41
6:2E:118:ARG:HH12	35:5R:537:LYS:HZ3	1.67	0.41
22:2L:829:ILE:HD11	35:5R:179:ARG:HH12	1.86	0.41
25:2P:381:PHE:HB3	44:TM:282:TYR:CE2	2.56	0.41
12:3S:308:TYR:CE1	45:AN:262:ARG:HD2	2.55	0.41
13:3T:127:GLU:OE2	44:AK:338:LYS:HA	2.19	0.41
15:3V:69:SER:O	45:LB:121:ARG:NH2	2.53	0.41
34:4F:161:GLU:CD	44:IM:225:THR:HG21	2.40	0.41
34:4F:169:PHE:HA	44:IM:82:THR:CB	2.48	0.41
31:4H:218:HIS:O	44:MK:84:ARG:NH1	2.54	0.41
37:5B:156:VAL:HG23	44:KG:433:GLU:OE2	2.21	0.41
37:5D:59:TYR:HD2	45:KN:182:PRO:HA	1.86	0.41
38:5F:93:PHE:CZ	45:KF:261:PRO:HG3	2.56	0.41
38:5G:116:TYR:OH	44:OI:282:TYR:HE2	2.03	0.41
38:5H:63:HIS:NE2	45:NN:33:THR:O	2.48	0.41
35:5R:33:LEU:N	44:LG:1:MET:HE3	2.32	0.41
35:5R:131:GLU:CG	35:5R:141:GLN:HG3	2.50	0.41
36:5S:76:ILE:CD1	36:5S:119:LEU:HD21	2.47	0.41
41:6G:138:LYS:HD2	44:VG:308:ARG:CG	2.50	0.41
41:6G:263:SER:HB3	44:VA:337:THR:CG2	2.37	0.41
11:6Q:73:LEU:HD13	11:6Q:167:PHE:HB2	2.01	0.41
35:7R:457:GLU:OE1	35:7R:467:GLY:HA2	2.20	0.41
35:7R:496:ILE:O	35:7R:502:ARG:HA	2.20	0.41
44:AA:3:GLU:HB3	44:AA:129:CYS:SG	2.61	0.41
45:AB:68:LEU:HB2	45:AB:147:MET:HE1	2.02	0.41
45:AB:213:ARG:O	45:AB:213:ARG:HG3	2.19	0.41
44:AC:179:THR:HB	46:AC:501:GTP:O3'	2.20	0.41
44:AC:288:VAL:HA	44:AC:291:ILE:CD1	2.51	0.41
45:AF:8:GLN:O	45:AF:66:MET:HG3	2.20	0.41
45:AF:65:LEU:HD11	45:AF:85:PHE:CE1	2.56	0.41
44:AG:238:LEU:HD12	44:AG:378:ILE:HD11	2.03	0.41
44:AG:317:MET:HE1	44:AG:319:TYR:HE1	1.85	0.41
44:AG:318:MET:CE	44:AG:354:GLY:HA3	2.50	0.41
44:AG:326:LYS:HB2	45:AJ:208:TYR:HE2	1.86	0.41
44:AI:53:PHE:C	44:AI:64:ARG:HE	2.17	0.41
44:AI:362:VAL:O	44:AI:362:VAL:HG13	2.20	0.41
45:AJ:172:SER:OG	45:AJ:174:LYS:NZ	2.42	0.41
45:AJ:272:PRO:CB	45:AJ:289:LEU:HD21	2.41	0.41
45:AJ:398:TYR:CD2	45:AJ:408:PHE:HZ	2.37	0.41
44:AK:257:THR:HA	45:AN:397:TRP:HZ3	1.77	0.41
45:AN:237:THR:O	45:AN:240:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BC:114:ILE:O	44:BC:114:ILE:HG22	2.21	0.41
44:BC:362:VAL:O	44:BC:362:VAL:HG13	2.19	0.41
45:BD:101:TRP:CE3	45:BD:187:LEU:HB3	2.55	0.41
44:BE:26:LEU:HD22	44:BE:364:PRO:HD2	2.02	0.41
44:BE:145:THR:HG21	46:BE:501:GTP:O3G	2.20	0.41
44:BE:291:ILE:HG13	44:BE:292:THR:H	1.85	0.41
44:BG:336:LYS:HE2	44:BG:343:PHE:CE1	2.56	0.41
45:BH:23:VAL:HG21	45:BH:230:SER:HB3	2.03	0.41
45:BH:238:CYS:SG	45:BH:239:CYS:N	2.93	0.41
44:BI:164:LYS:HA	44:BI:164:LYS:HD2	1.86	0.41
44:BI:221:ARG:N	44:BI:222:PRO:CD	2.84	0.41
44:BI:258:ASN:ND2	45:BL:179:VAL:HG12	2.36	0.41
44:BI:288:VAL:HA	44:BI:291:ILE:CD1	2.50	0.41
44:BK:36:MET:HE3	44:BK:61:HIS:CE1	2.55	0.41
45:BL:7:ILE:O	45:BL:135:ILE:HA	2.21	0.41
44:BM:305:CYS:SG	44:BM:383:ALA:HB1	2.61	0.41
45:BN:132:GLY:HA3	45:BN:163:ILE:O	2.21	0.41
45:BN:263:LEU:HG	45:BN:422:TYR:CE1	2.56	0.41
44:CA:62:VAL:CG2	44:DA:283:HIS:HB3	2.50	0.41
45:CB:211:CYS:HB3	45:CB:217:LEU:CG	2.51	0.41
45:CB:314:SER:CB	45:CB:350:LYS:HB3	2.51	0.41
44:CC:212:ILE:CD1	44:CC:300:ASN:HA	2.51	0.41
44:CC:268:MET:HG3	44:CC:378:ILE:HG22	2.03	0.41
44:CE:153:LEU:O	44:CE:157:LEU:HG	2.21	0.41
44:CE:276:ILE:HG13	44:CE:280:LYS:HZ2	1.84	0.41
45:CF:249:ASP:OD1	45:CF:249:ASP:C	2.59	0.41
44:CG:346:TRP:HE3	44:CG:346:TRP:O	2.04	0.41
45:CH:87:PRO:HD2	45:DH:281:TYR:CE2	2.56	0.41
44:CI:132:LEU:HD23	44:CI:132:LEU:N	2.35	0.41
44:CI:326:LYS:HD2	44:CI:327:ASP:N	2.35	0.41
44:CI:328:VAL:CG1	44:CI:353:VAL:HG21	2.40	0.41
44:CK:208:ALA:O	44:CK:212:ILE:N	2.40	0.41
44:CK:267:PHE:CD2	44:CK:388:PHE:HZ	2.39	0.41
45:CL:337:ASN:HB3	45:CL:340:TYR:CG	2.56	0.41
44:CM:288:VAL:HA	44:CM:291:ILE:HD11	2.03	0.41
44:CM:288:VAL:C	44:CM:291:ILE:HG12	2.41	0.41
44:CM:317:MET:SD	44:CM:377:MET:HB3	2.60	0.41
44:CM:348:PRO:HG2	45:CN:388:MET:HE1	2.01	0.41
45:CN:51:TYR:C	45:CN:62:ARG:HH21	2.23	0.41
45:CN:86:ARG:HA	45:DN:281:TYR:CE2	2.55	0.41
45:CN:366:THR:HG23	45:CN:366:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DA:63:PRO:CD	44:DA:86:LEU:O	2.69	0.41
44:DA:211:ASP:HB3	44:DA:215:ARG:NH1	2.36	0.41
45:DB:20:PHE:HA	45:DB:230:SER:CB	2.50	0.41
45:DB:284:LEU:CD1	45:DB:362:LYS:HB2	2.49	0.41
44:DC:229:ARG:HG2	44:DC:229:ARG:NH1	2.35	0.41
44:DC:405:VAL:HG13	44:DC:418:PHE:CZ	2.56	0.41
45:DD:12:CYS:HB3	45:DD:138:SER:HB2	2.01	0.41
45:DD:20:PHE:HA	45:DD:23:VAL:HG12	2.02	0.41
45:DD:239:CYS:SG	45:DD:316:LEU:HD23	2.60	0.41
45:DD:342:VAL:HG22	45:DD:343:GLU:N	2.35	0.41
44:DE:13:GLY:C	44:DE:16:VAL:HG22	2.41	0.41
44:DE:66:VAL:HG23	44:DE:91:GLN:O	2.21	0.41
45:DF:319:GLY:HA3	45:DF:357:PRO:HB3	2.02	0.41
44:DG:205:ASP:CG	44:DG:304:LYS:H	2.19	0.41
45:DH:113:ILE:HG23	45:DH:114:ASP:N	2.36	0.41
45:DH:248:SER:HB2	45:DH:252:LYS:HD2	2.01	0.41
44:DI:270:SER:HB2	44:DI:378:ILE:HD13	2.03	0.41
45:DJ:101:TRP:HB2	45:DJ:184:ASN:HB2	2.03	0.41
45:DJ:271:ALA:HB1	45:DJ:272:PRO:HA	2.01	0.41
45:DJ:374:ILE:HG12	45:DJ:422:TYR:HH	1.86	0.41
44:DK:141:VAL:HG22	44:DK:187:SER:HA	2.02	0.41
45:DL:4:ILE:CG1	45:DL:50:TYR:HE1	2.34	0.41
45:DL:221:THR:O	45:DL:224:ASP:N	2.54	0.41
45:DL:375:GLN:C	45:DL:379:LYS:CD	2.85	0.41
45:DN:383:GLU:CA	45:DN:386:THR:HG22	2.51	0.41
44:EA:2:ARG:HA	44:EA:131:GLY:HA3	2.03	0.41
44:EA:203:MET:HB2	44:EA:303:ALA:HB2	2.02	0.41
45:EB:163:ILE:O	45:EB:163:ILE:HG13	2.21	0.41
45:EB:270:PHE:CD2	45:EB:273:LEU:HD21	2.54	0.41
45:EB:417:ASP:O	45:EB:420:SER:OG	2.32	0.41
45:ED:30:ILE:HG13	45:ED:30:ILE:O	2.20	0.41
44:EE:204:LEU:HD23	44:EE:302:MET:SD	2.60	0.41
45:EF:16:ILE:HD13	45:EF:226:ASN:ND2	2.36	0.41
45:EF:58:ARG:HD3	45:FF:281:TYR:HE1	1.82	0.41
45:EF:350:LYS:HG3	45:EF:351:SER:N	2.36	0.41
45:EF:392:LYS:HG3	45:EF:395:LEU:HD22	2.01	0.41
45:EH:135:ILE:HG13	45:EH:152:ILE:HD11	2.02	0.41
44:EI:67:PHE:O	44:EI:68:LEU:HD22	2.21	0.41
44:EI:145:THR:HG22	46:EI:501:GTP:O3B	2.20	0.41
44:EI:202:VAL:HG13	44:EI:269:LEU:HA	2.03	0.41
45:EJ:260:PHE:CE2	45:EJ:344:TRP:HH2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:24:PHE:CE2	44:EK:52:PHE:HE2	2.38	0.41
45:EL:11:GLN:HB3	48:EL:501:GDP:O3B	2.20	0.41
45:EL:46:ARG:NE	45:EL:46:ARG:HA	2.35	0.41
45:EL:215:LEU:O	45:EL:275:SER:HB2	2.21	0.41
45:EL:360:GLY:O	45:EL:361:LEU:HD23	2.20	0.41
44:EM:26:LEU:HD23	44:EM:363:VAL:HA	2.03	0.41
44:EM:135:PHE:O	44:EM:167:LEU:N	2.48	0.41
44:EM:268:MET:HB2	44:EM:379:SER:C	2.41	0.41
44:EM:317:MET:O	44:EM:353:VAL:HA	2.20	0.41
45:EN:130:LEU:HD12	45:EN:130:LEU:HA	1.91	0.41
45:EN:217:LEU:CD1	45:EN:220:PRO:HA	2.44	0.41
45:EN:288:GLU:O	45:EN:291:GLN:HG3	2.21	0.41
45:EN:377:MET:O	45:EN:381:VAL:HG23	2.20	0.41
44:FA:55:GLU:HG3	44:FA:57:GLY:H	1.84	0.41
44:FA:76:ASP:OD2	45:FB:46:ARG:NH2	2.39	0.41
44:FA:137:VAL:CG1	44:FA:168:GLY:HA2	2.50	0.41
44:FA:324:VAL:O	44:FA:327:ASP:N	2.54	0.41
45:FB:60:VAL:O	45:FB:60:VAL:HG13	2.20	0.41
45:FB:211:CYS:O	45:FB:216:LYS:N	2.54	0.41
45:FB:372:THR:HA	45:FB:422:TYR:CE2	2.50	0.41
44:FC:120:ASP:HA	44:FC:123:ARG:HE	1.85	0.41
44:FC:156:ARG:NE	44:FC:156:ARG:CA	2.81	0.41
45:FD:105:HIS:NE2	45:FD:150:LEU:HB2	2.36	0.41
45:FD:273:LEU:N	45:FD:292:GLN:HE22	2.16	0.41
44:FE:254:GLU:CD	45:FH:98:GLY:HA2	2.40	0.41
44:FE:270:SER:CB	44:FE:378:ILE:HD13	2.51	0.41
44:FE:326:LYS:CE	45:FH:220:PRO:HD2	2.51	0.41
45:FF:253:LEU:O	45:FF:257:LEU:HB2	2.20	0.41
45:FF:334:GLN:OE1	45:FF:349:ILE:HD12	2.20	0.41
44:FG:135:PHE:HZ	44:FG:161:TYR:CD2	2.38	0.41
44:FG:250:VAL:HG22	44:FG:318:MET:HE1	2.03	0.41
45:FH:267:MET:HE1	45:FH:371:SER:N	2.35	0.41
44:FI:38:SER:O	44:FI:39:ASP:OD1	2.38	0.41
44:FI:71:GLU:HA	44:FI:72:PRO:HD3	1.93	0.41
44:FI:97:GLU:CG	44:FI:105:ARG:HH12	2.33	0.41
44:FI:152:LEU:HD12	44:FI:152:LEU:O	2.21	0.41
44:FI:406:HIS:CD2	45:FJ:261:PRO:HD3	2.56	0.41
45:FJ:113:ILE:HD13	45:FJ:150:LEU:CD2	2.51	0.41
45:FJ:326:VAL:HG13	45:FJ:327:ASP:N	2.35	0.41
44:FK:188:ILE:O	44:FK:191:THR:HB	2.21	0.41
45:FL:105:HIS:HA	45:FL:150:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FN:312:THR:CG2	45:FN:370:ASN:HB2	2.51	0.41
45:FN:389:PHE:HE1	45:FN:395:LEU:HD13	1.86	0.41
44:GA:219:ILE:HG21	44:GA:222:PRO:CB	2.43	0.41
44:GA:356:ASN:OD1	44:GA:357:TYR:N	2.54	0.41
45:GB:317:PHE:O	45:GB:353:ILE:HA	2.20	0.41
44:GC:4:VAL:HG13	44:GC:134:GLY:O	2.20	0.41
45:GD:73:MET:SD	45:GD:90:PHE:HD1	2.44	0.41
45:GD:113:ILE:HD11	45:GD:151:LEU:HB2	2.03	0.41
45:GD:163:ILE:HD13	45:GD:251:ARG:HG3	2.03	0.41
45:GD:379:LYS:O	45:GD:379:LYS:HD2	2.21	0.41
44:GE:52:PHE:O	44:GE:64:ARG:HB2	2.21	0.41
44:GE:89:PRO:HD3	44:HE:280:LYS:CD	2.50	0.41
44:GG:319:TYR:CE2	44:GG:328:VAL:HG22	2.53	0.41
44:GI:6:SER:O	44:GI:66:VAL:HG12	2.20	0.41
44:GI:174:SER:HA	44:GI:304:LYS:HZ1	1.84	0.41
44:GI:313:MET:HE2	44:GI:380:ASN:O	2.21	0.41
45:GJ:257:LEU:CA	45:GJ:312:THR:HG21	2.45	0.41
45:GJ:386:THR:HG23	45:GJ:387:ALA:N	2.36	0.41
44:GK:11:GLN:OE1	44:GK:11:GLN:N	2.34	0.41
44:GK:82:THR:HG23	44:GK:83:TYR:N	2.35	0.41
44:GK:151:SER:HB3	44:GK:193:SER:OG	2.20	0.41
44:GK:188:ILE:HG23	44:GK:425:LEU:HD21	2.02	0.41
45:GL:290:THR:HA	45:GL:293:MET:CG	2.48	0.41
45:GL:329:GLN:HA	45:GL:332:ASN:CB	2.49	0.41
44:GM:9:VAL:O	44:GM:13:GLY:HA3	2.21	0.41
44:GM:16:VAL:HG13	44:GM:17:GLY:N	2.36	0.41
44:GM:221:ARG:CZ	45:GN:325:GLU:H	2.34	0.41
45:GN:72:THR:HG23	45:GN:73:MET:N	2.35	0.41
45:GN:216:LYS:HB2	45:GN:275:SER:CB	2.51	0.41
45:GN:293:MET:CE	45:GN:294:PHE:CE1	3.03	0.41
45:HB:135:ILE:O	45:HB:166:THR:HA	2.21	0.41
44:HC:21:TRP:CZ2	44:HC:65:ALA:HB2	2.56	0.41
45:HD:58:ARG:NE	45:HD:86:ARG:HH12	2.19	0.41
45:HD:68:LEU:HD23	45:HD:97:ALA:CB	2.51	0.41
45:HD:175:VAL:HG11	45:HD:205:GLU:HB2	2.02	0.41
45:HF:1:MET:C	45:HF:2:ARG:HG2	2.41	0.41
45:HF:217:LEU:HD11	45:HF:220:PRO:CG	2.51	0.41
44:HG:199:ASP:O	44:HG:266:HIS:HB2	2.21	0.41
45:HH:167:PHE:HD1	45:HH:233:MET:CE	2.33	0.41
44:HI:14:ILE:HG21	44:HI:74:VAL:CG2	2.49	0.41
44:HI:188:ILE:HD13	44:HI:425:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HI:189:LEU:HD11	44:HI:418:PHE:CE1	2.55	0.41
44:HI:399:TYR:O	44:HI:399:TYR:CD1	2.74	0.41
44:HI:433:GLU:O	44:HI:437:ILE:HG23	2.21	0.41
45:HJ:203:ASP:OD2	45:HJ:301:CYS:HA	2.21	0.41
45:HL:218:THR:HG23	45:HL:219:THR:N	2.35	0.41
44:HM:103:PHE:HB3	44:HM:408:TYR:CD2	2.55	0.41
44:HM:222:PRO:HG2	45:HN:324:LYS:CD	2.51	0.41
45:HN:287:PRO:HA	45:HN:290:THR:OG1	2.20	0.41
45:HN:391:ARG:HA	45:HN:391:ARG:HD2	1.88	0.41
44:IA:102:ASN:OD1	44:IA:104:ALA:N	2.53	0.41
44:IA:172:TYR:HB3	44:IA:173:PRO:CD	2.50	0.41
44:IA:272:TYR:HD1	44:IA:376:CYS:CB	2.29	0.41
45:IB:72:THR:HG23	45:IB:73:MET:H	1.86	0.41
45:IB:310:TYR:HD1	45:IB:371:SER:HB2	1.81	0.41
44:IE:110:ILE:HD12	44:IE:110:ILE:N	2.36	0.41
44:IE:175:PRO:HG2	44:IE:304:LYS:HG2	2.01	0.41
45:IF:263:LEU:HG	45:IF:422:TYR:CE1	2.55	0.41
45:IF:310:TYR:CD1	45:IF:371:SER:HB2	2.55	0.41
44:IG:74:VAL:HG23	44:IG:75:ILE:N	2.35	0.41
45:IH:3:GLU:OE1	45:IH:3:GLU:N	2.53	0.41
45:IH:49:VAL:HG23	45:IH:50:TYR:N	2.36	0.41
45:IH:289:LEU:O	45:IH:293:MET:HG3	2.21	0.41
44:II:210:TYR:CD2	45:IJ:324:LYS:HD2	2.56	0.41
44:II:229:ARG:CZ	44:II:229:ARG:HB2	2.51	0.41
45:IJ:169:VAL:O	45:IJ:169:VAL:CG2	2.67	0.41
45:IJ:192:LEU:HD21	45:IJ:199:CYS:SG	2.60	0.41
45:IJ:218:THR:HG23	45:IJ:219:THR:N	2.35	0.41
44:IK:49:PHE:HE1	44:IK:55:GLU:OE2	2.04	0.41
44:IK:107:HIS:HD2	44:IK:148:GLY:O	2.03	0.41
44:IM:88:HIS:O	44:IM:91:GLN:HG2	2.21	0.41
45:IN:36:TYR:CZ	45:IN:44:LEU:HD11	2.56	0.41
45:IN:153:SER:HG	45:IN:154:LYS:H	1.69	0.41
44:JA:64:ARG:HG2	44:JA:125:LEU:HD11	2.03	0.41
44:JC:182:VAL:C	44:JC:184:PRO:HD2	2.41	0.41
44:JC:261:PRO:HA	45:JF:394:PHE:HD2	1.81	0.41
44:JE:169:PHE:HE2	44:JE:235:ILE:HD12	1.85	0.41
45:JH:192:LEU:HD12	45:JH:196:ALA:HB2	2.02	0.41
45:JH:284:LEU:HB3	45:JH:362:LYS:CE	2.51	0.41
45:JH:310:TYR:HB2	45:JH:341:PHE:CD2	2.55	0.41
45:JJ:208:TYR:OH	45:JJ:222:TYR:HE1	2.04	0.41
45:JJ:248:SER:CA	45:JJ:252:LYS:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JK:191:THR:O	44:JK:195:LEU:N	2.49	0.41
44:JM:200:VAL:CG1	44:JM:201:ALA:N	2.83	0.41
45:JN:120:VAL:HG13	45:JN:121:ARG:N	2.36	0.41
44:KC:187:SER:O	44:KC:190:SER:OG	2.20	0.41
44:KE:112:LYS:HD2	44:KE:113:GLU:N	2.36	0.41
45:KF:20:PHE:O	45:KF:24:ILE:HG12	2.21	0.41
45:KF:272:PRO:HB2	45:KF:282:ARG:NH1	2.33	0.41
45:KF:325:GLU:HG2	45:KF:326:VAL:N	2.35	0.41
44:KG:184:PRO:HG2	44:KG:398:MET:SD	2.61	0.41
45:KH:16:ILE:HA	45:KH:226:ASN:OD1	2.20	0.41
44:KI:208:ALA:HB1	44:KI:301:MET:O	2.20	0.41
45:KJ:187:LEU:HD11	45:KJ:408:PHE:CE1	2.54	0.41
45:KJ:354:CYS:SG	45:KJ:355:ASP:N	2.94	0.41
44:KK:60:LYS:HD3	44:KK:61:HIS:N	2.36	0.41
45:KL:7:ILE:HG12	45:KL:64:ILE:CB	2.44	0.41
45:KL:215:LEU:O	45:KL:216:LYS:HB2	2.20	0.41
44:KM:19:ALA:HB2	44:KM:229:ARG:HH11	1.86	0.41
44:KM:403:ALA:HB2	45:KN:344:TRP:HZ3	1.86	0.41
45:KN:393:ALA:O	45:KN:394:PHE:HB2	2.20	0.41
45:KN:426:GLN:OE1	45:KN:427:ASP:OD1	2.39	0.41
44:LA:88:HIS:HA	44:LA:89:PRO:HD3	1.85	0.41
44:LA:282:TYR:O	44:LA:282:TYR:CD2	2.73	0.41
44:LA:344:VAL:HG12	44:LA:345:ASP:N	2.34	0.41
45:LB:28:HIS:HD1	45:LB:43:GLN:C	2.23	0.41
44:LC:213:CYS:O	44:LC:217:LEU:N	2.54	0.41
44:LC:397:LEU:HD21	45:LD:343:GLU:O	2.20	0.41
44:LC:403:ALA:O	44:LC:404:PHE:HB2	2.20	0.41
45:LD:260:PHE:HB3	45:LD:261:PRO:HD2	2.03	0.41
45:LF:170:VAL:HG22	45:LF:171:PRO:HD2	2.02	0.41
45:LF:199:CYS:HB2	45:LF:265:PHE:HD1	1.84	0.41
44:LI:276:ILE:HG21	44:LI:280:LYS:O	2.20	0.41
45:LJ:35:THR:HG22	45:LJ:36:TYR:N	2.35	0.41
45:LJ:139:LEU:HD22	45:LJ:188:SER:CB	2.51	0.41
45:LJ:156:ARG:HD2	45:LJ:156:ARG:HA	1.87	0.41
44:LK:169:PHE:HZ	44:LK:238:LEU:HD13	1.86	0.41
44:LK:288:VAL:HA	44:LK:291:ILE:HG12	2.02	0.41
45:LL:391:ARG:O	45:LL:392:LYS:HG2	2.20	0.41
45:LL:406:MET:O	45:LL:409:THR:HB	2.21	0.41
44:LM:4:VAL:HG22	44:LM:5:ILE:N	2.36	0.41
44:LM:161:TYR:HB3	44:LM:164:LYS:HG3	2.03	0.41
45:LN:257:LEU:HD11	45:LN:313:ALA:CA	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:304:ASP:O	45:LN:373:ALA:HB1	2.21	0.41
44:MA:123:ARG:NH1	44:MA:124:LYS:HD3	2.36	0.41
44:MA:311:LYS:CB	44:MA:344:VAL:HG22	2.51	0.41
45:MB:35:THR:HG23	45:MB:35:THR:O	2.21	0.41
45:MB:263:LEU:HG	45:MB:422:TYR:CE1	2.56	0.41
44:MC:269:LEU:HD12	44:MC:269:LEU:O	2.20	0.41
45:MD:2:ARG:HH12	45:MD:46:ARG:CD	2.29	0.41
44:ME:71:GLU:OE1	44:ME:73:THR:OG1	2.33	0.41
44:ME:107:HIS:O	44:ME:112:LYS:NZ	2.53	0.41
44:ME:136:LEU:HD13	44:ME:235:ILE:HD11	2.02	0.41
44:ME:265:ILE:HG23	44:ME:432:TYR:CE1	2.55	0.41
45:MF:146:GLY:O	45:MF:149:THR:HG22	2.21	0.41
44:MG:30:ILE:HD13	44:MG:53:PHE:CE2	2.55	0.41
44:MG:141:VAL:O	44:MG:141:VAL:CG1	2.68	0.41
44:MG:170:THR:HG21	44:MG:194:LEU:HD22	2.03	0.41
44:MG:403:ALA:HA	45:MH:260:PHE:HE1	1.84	0.41
45:MH:173:PRO:HG3	45:MH:380:ARG:HD3	2.03	0.41
45:MH:186:THR:O	45:MH:189:VAL:HG12	2.20	0.41
44:MI:103:PHE:HB2	44:MI:186:ASN:CB	2.50	0.41
44:MI:107:HIS:O	44:MI:108:TYR:HD1	2.04	0.41
45:MJ:5:VAL:HG22	45:MJ:6:HIS:N	2.36	0.41
45:MJ:215:LEU:CB	45:MJ:217:LEU:HG	2.51	0.41
45:MJ:263:LEU:HG	45:MJ:422:TYR:CE1	2.56	0.41
45:MJ:271:ALA:HB2	45:MJ:298:ASN:ND2	2.35	0.41
44:MK:36:MET:HE2	44:MK:61:HIS:NE2	2.34	0.41
44:MM:319:TYR:CD2	44:MM:323:VAL:HG11	2.40	0.41
45:NB:14:ASN:CB	45:NB:72:THR:HB	2.51	0.41
44:NC:157:LEU:CD2	44:NC:166:LYS:HD3	2.50	0.41
45:ND:105:HIS:ND1	45:ND:105:HIS:O	2.54	0.41
45:NF:296:ALA:HB1	45:NF:304:ASP:OD1	2.21	0.41
45:NF:309:ARG:HH12	45:NF:342:VAL:HA	1.84	0.41
44:NG:183:GLU:N	44:NG:184:PRO:CD	2.84	0.41
44:NG:373:ARG:HG3	44:NG:373:ARG:HH11	1.86	0.41
45:NH:101:TRP:CZ2	45:NH:187:LEU:HD13	2.56	0.41
45:NH:113:ILE:HA	45:NH:116:VAL:HG12	2.01	0.41
45:NJ:42:LEU:HD23	45:NJ:45:GLU:CD	2.40	0.41
45:NJ:267:MET:HE1	45:NJ:303:ALA:HB3	2.01	0.41
45:NJ:321:MET:SD	45:NJ:353:ILE:HG23	2.60	0.41
44:NK:332:ILE:O	44:NK:336:LYS:HG3	2.20	0.41
44:NM:203:MET:HG2	44:NM:384:ILE:HD13	2.02	0.41
45:NN:294:PHE:CE2	45:NN:333:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OB:141:GLY:O	45:OB:184:ASN:ND2	2.53	0.41
45:OD:213:ARG:HG2	45:OD:213:ARG:NH1	2.35	0.41
45:OD:221:THR:H	45:OD:224:ASP:HB2	1.86	0.41
45:OD:344:TRP:CZ3	45:OD:345:ILE:HG23	2.56	0.41
45:OD:406:MET:HA	45:OD:409:THR:OG1	2.21	0.41
44:OE:224:TYR:CG	45:OF:323:THR:HG21	2.55	0.41
44:OE:329:ASN:O	44:OE:332:ILE:N	2.53	0.41
45:OF:133:PHE:HE2	45:OF:155:VAL:HG13	1.86	0.41
44:OG:185:TYR:CD2	44:OG:408:TYR:HE2	2.35	0.41
45:OH:7:ILE:HG23	45:OH:7:ILE:O	2.20	0.41
44:OI:173:PRO:HG3	44:OI:183:GLU:OE1	2.20	0.41
44:OI:270:SER:HB2	44:OI:378:ILE:CD1	2.50	0.41
44:OK:213:CYS:C	44:OK:217:LEU:HB2	2.41	0.41
45:OL:101:TRP:O	45:OL:105:HIS:N	2.54	0.41
45:OL:318:ARG:NE	45:OL:358:PRO:HD3	2.35	0.41
44:OM:73:THR:CG2	45:ON:2:ARG:HH22	2.33	0.41
44:OM:107:HIS:HD2	44:OM:148:GLY:O	2.03	0.41
44:OM:293:ASN:O	44:OM:296:PHE:N	2.53	0.41
44:OM:304:LYS:HE2	44:OM:304:LYS:HB2	1.83	0.41
45:ON:176:SER:HB2	45:ON:181:GLU:OE1	2.21	0.41
45:ON:309:ARG:O	45:ON:311:LEU:HD12	2.21	0.41
44:PA:210:TYR:CE1	45:PB:324:LYS:HD3	2.55	0.41
44:PA:306:ASP:HB3	44:PA:309:HIS:CE1	2.55	0.41
44:PA:313:MET:HE2	44:PA:346:TRP:CH2	2.55	0.41
44:PA:317:MET:HA	44:PA:377:MET:HA	2.02	0.41
44:PA:381:SER:O	44:PA:384:ILE:HG12	2.21	0.41
45:PB:183:TYR:O	45:PB:186:THR:HB	2.21	0.41
44:PC:70:LEU:HB3	44:PC:98:ASP:CA	2.37	0.41
44:PC:102:ASN:CB	44:PC:105:ARG:HG3	2.51	0.41
44:PC:145:THR:HG23	44:PC:146:GLY:N	2.36	0.41
45:PD:101:TRP:HZ3	45:PD:403:MET:HE3	1.85	0.41
45:PD:225:LEU:O	45:PD:229:VAL:N	2.40	0.41
44:PE:8:HIS:HB2	44:PE:67:PHE:HD1	1.85	0.41
44:PE:11:GLN:O	44:PE:15:GLN:HG3	2.21	0.41
44:PE:31:GLN:HG3	44:PE:32:PRO:CD	2.48	0.41
44:PE:183:GLU:HG2	44:PE:184:PRO:N	2.35	0.41
45:PF:20:PHE:C	45:PF:25:SER:OG	2.58	0.41
44:PG:154:LEU:HD23	44:PG:166:LYS:HD2	2.02	0.41
44:PG:191:THR:HA	44:PG:194:LEU:HG	2.03	0.41
44:PG:194:LEU:HD11	44:PG:267:PHE:HZ	1.85	0.41
44:PG:258:ASN:O	45:PJ:179:VAL:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:292:THR:HG21	44:PG:331:SER:CB	2.40	0.41
45:PH:324:LYS:O	45:PH:328:GLU:HG2	2.21	0.41
45:PH:342:VAL:HG22	45:PH:343:GLU:N	2.36	0.41
44:PI:11:GLN:CG	44:PI:74:VAL:HG11	2.51	0.41
44:PI:229:ARG:HH11	44:PI:229:ARG:HG2	1.86	0.41
44:PI:398:MET:HE1	45:PJ:345:ILE:CD1	2.51	0.41
44:PK:173:PRO:HG2	44:PK:391:LEU:HD21	2.02	0.41
45:PL:258:ILE:HD13	45:PL:266:PHE:CZ	2.55	0.41
45:PL:282:ARG:HG2	45:PL:283:ALA:H	1.85	0.41
44:PM:145:THR:HG22	46:PM:501:GTP:PG	2.61	0.41
45:PN:390:ARG:HG3	45:PN:391:ARG:N	2.36	0.41
44:QA:75:ILE:HA	44:QA:92:LEU:HD23	2.02	0.41
44:QA:224:TYR:HD1	44:QA:227:LEU:CD1	2.31	0.41
44:QA:292:THR:HG21	44:QA:331:SER:CB	2.43	0.41
45:QB:178:THR:CB	45:QB:181:GLU:HG3	2.37	0.41
44:QC:210:TYR:OH	44:QC:224:TYR:HE1	2.04	0.41
45:QD:42:LEU:HA	45:QD:45:GLU:CD	2.40	0.41
44:QE:66:VAL:O	44:QE:66:VAL:HG23	2.20	0.41
45:QF:299:MET:CE	45:QF:305:PRO:HB3	2.51	0.41
44:QG:324:VAL:CG1	44:QG:326:LYS:HG3	2.46	0.41
45:QH:380:ARG:HE	45:QH:380:ARG:HB3	1.69	0.41
45:QJ:86:ARG:HE	45:QJ:87:PRO:CD	2.21	0.41
44:QK:6:SER:O	44:QK:65:ALA:HA	2.21	0.41
44:RA:294:SER:HB3	44:RA:300:ASN:HD21	1.86	0.41
44:RA:387:VAL:O	44:RA:391:LEU:HB2	2.21	0.41
44:RA:413:MET:HE3	44:RA:417:GLU:CB	2.51	0.41
44:RA:429:GLU:O	44:RA:432:TYR:HB2	2.20	0.41
45:RB:147:MET:O	45:RB:151:LEU:HB2	2.21	0.41
45:RB:318:ARG:HD3	45:RB:358:PRO:CG	2.50	0.41
44:RC:23:LEU:HD23	44:RC:236:SER:HB2	2.02	0.41
45:RD:91:VAL:O	45:RD:91:VAL:HG23	2.21	0.41
45:RD:173:PRO:HD3	45:RD:380:ARG:HD3	2.03	0.41
45:RD:186:THR:HG23	45:RD:187:LEU:N	2.34	0.41
44:RE:206:ASN:OD1	46:RE:501:GTP:O2'	2.38	0.41
44:RE:296:PHE:HD1	44:RE:341:ILE:CD1	2.32	0.41
44:RG:158:SER:O	44:RG:162:GLY:HA2	2.21	0.41
44:RG:383:ALA:O	44:RG:386:GLU:HG2	2.21	0.41
45:RH:92:PHE:HD2	45:RH:93:GLY:O	2.04	0.41
45:RH:113:ILE:HD13	45:RH:150:LEU:CD2	2.51	0.41
45:RH:226:ASN:O	45:RH:229:VAL:HB	2.20	0.41
45:RH:274:THR:CG2	45:RH:282:ARG:HH12	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RH:345:ILE:HG13	44:RI:398:MET:CE	2.50	0.41
44:RI:175:PRO:HD2	44:RI:207:GLU:CD	2.40	0.41
44:RI:274:PRO:HD2	44:RI:374:ALA:CB	2.50	0.41
45:RJ:46:ARG:HH11	45:RJ:46:ARG:CG	2.32	0.41
45:RJ:261:PRO:HD3	44:RK:406:HIS:CG	2.56	0.41
44:RK:416:GLY:O	44:RK:419:SER:N	2.50	0.41
44:RK:439:THR:HG21	45:RL:390:ARG:CD	2.51	0.41
45:RL:391:ARG:HA	45:RL:391:ARG:HD2	1.87	0.41
44:RM:377:MET:CE	44:RM:379:SER:HB3	2.51	0.41
45:RN:8:GLN:HG2	45:RN:64:ILE:O	2.20	0.41
44:SA:75:ILE:O	44:SA:75:ILE:HG22	2.21	0.41
44:SA:183:GLU:O	44:SA:186:ASN:OD1	2.39	0.41
45:SB:181:GLU:HB2	45:SB:182:PRO:HD3	2.02	0.41
44:SC:5:ILE:HD12	44:SC:132:LEU:HD11	2.02	0.41
44:SC:183:GLU:CG	44:SC:184:PRO:HD3	2.51	0.41
45:SD:16:ILE:HA	45:SD:226:ASN:OD1	2.21	0.41
45:SD:36:TYR:HB2	45:SD:59:TYR:HE1	1.86	0.41
44:SE:98:ASP:CG	44:SE:99:ALA:HB1	2.41	0.41
45:SF:12:CYS:O	45:SF:16:ILE:HG12	2.21	0.41
45:SF:184:ASN:OD1	45:SF:185:ALA:N	2.54	0.41
45:SF:378:PHE:HB2	45:SF:419:VAL:HG22	2.02	0.41
44:SG:158:SER:O	44:SG:162:GLY:HA2	2.21	0.41
44:SG:184:PRO:HB2	44:SG:398:MET:CE	2.51	0.41
44:SG:328:VAL:O	44:SG:331:SER:N	2.54	0.41
44:SG:420:GLU:HG3	44:SG:421:ALA:N	2.36	0.41
44:SI:296:PHE:CD1	44:SI:335:ILE:HD12	2.55	0.41
45:SJ:73:MET:HE1	45:SJ:92:PHE:HA	2.03	0.41
44:SK:205:ASP:OD2	44:SK:304:LYS:HB3	2.20	0.41
44:SK:276:ILE:HG12	44:SK:281:ALA:CB	2.50	0.41
45:SN:68:LEU:C	45:SN:93:GLY:H	2.24	0.41
45:SN:380:ARG:HE	45:SN:380:ARG:HB3	1.73	0.41
45:TB:143:THR:HG22	48:TB:501:GDP:O2B	2.20	0.41
45:TB:269:GLY:N	45:TB:367:PHE:O	2.46	0.41
44:TC:105:ARG:HG2	44:TC:411:GLU:OE1	2.21	0.41
44:TC:178:SER:HB2	44:TC:183:GLU:OE1	2.20	0.41
44:TC:329:ASN:HB3	45:TD:174:LYS:HZ2	1.85	0.41
44:TC:362:VAL:HG21	44:TC:370:LYS:HB3	2.02	0.41
44:TC:406:HIS:O	44:TC:410:GLY:N	2.50	0.41
45:TD:268:ILE:HG22	45:TD:368:VAL:HG13	2.01	0.41
44:TE:54:SER:O	44:TE:61:HIS:HB3	2.21	0.41
44:TE:268:MET:HA	44:TE:380:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TE:319:TYR:HA	44:TE:375:VAL:CG2	2.50	0.41
45:TF:113:ILE:CD1	45:TF:151:LEU:HB2	2.35	0.41
44:TG:183:GLU:N	44:TG:184:PRO:CD	2.83	0.41
45:TH:286:VAL:N	45:TH:287:PRO:CD	2.84	0.41
45:TH:287:PRO:CA	45:TH:290:THR:HG22	2.50	0.41
44:TI:119:LEU:O	44:TI:123:ARG:N	2.27	0.41
45:TJ:304:ASP:OD1	45:TJ:306:ARG:HG2	2.20	0.41
45:TJ:326:VAL:O	45:TJ:330:MET:HB2	2.21	0.41
44:TK:268:MET:CB	44:TK:380:ASN:HB2	2.51	0.41
45:TL:4:ILE:HG21	45:TL:250:LEU:HD11	2.02	0.41
45:TN:117:LEU:HD21	45:TN:121:ARG:NH2	2.22	0.41
44:UA:5:ILE:HG23	44:UA:64:ARG:O	2.21	0.41
44:UA:10:GLY:O	44:UA:14:ILE:HD12	2.21	0.41
45:UB:65:LEU:HD22	45:UB:90:PHE:HE1	1.85	0.41
45:UB:345:ILE:HG23	45:UB:345:ILE:O	2.21	0.41
44:UC:219:ILE:O	44:UC:222:PRO:HD3	2.21	0.41
44:UC:235:ILE:O	44:UC:238:LEU:HB2	2.20	0.41
45:UD:317:PHE:CA	45:UD:365:VAL:HG22	2.27	0.41
45:UD:318:ARG:NE	45:UD:356:ILE:O	2.54	0.41
45:UD:325:GLU:CB	44:UE:221:ARG:HD3	2.51	0.41
45:UF:248:SER:HA	45:UF:252:LYS:CD	2.32	0.41
45:UF:318:ARG:O	45:UF:363:MET:HE3	2.21	0.41
44:UG:229:ARG:O	44:UG:233:GLN:OE1	2.38	0.41
45:UH:237:THR:HG23	45:UH:241:ARG:NH2	2.27	0.41
44:UI:54:SER:OG	44:UI:62:VAL:HG12	2.21	0.41
44:UI:233:GLN:O	44:UI:236:SER:N	2.54	0.41
44:UI:273:ALA:HB1	44:UI:274:PRO:HA	2.03	0.41
45:UJ:113:ILE:HD12	45:UJ:150:LEU:HD22	2.03	0.41
45:UJ:344:TRP:CE3	45:UJ:345:ILE:HB	2.56	0.41
44:UK:152:LEU:HD12	44:UK:152:LEU:HA	1.95	0.41
45:UL:131:GLN:C	45:UL:163:ILE:HG12	2.41	0.41
45:UL:258:ILE:HD13	44:UM:407:TRP:CH2	2.56	0.41
45:UL:289:LEU:HD13	45:UL:365:VAL:HG23	2.03	0.41
45:UL:316:LEU:HB2	45:UL:366:THR:CG2	2.51	0.41
45:UL:331:LEU:HD22	44:UM:177:VAL:HG22	2.03	0.41
45:UL:350:LYS:HD2	44:UM:180:ALA:HB1	2.00	0.41
44:UM:312:TYR:HB2	44:UM:343:PHE:CD1	2.54	0.41
45:UN:70:PRO:HG3	45:UN:92:PHE:HD2	1.86	0.41
45:UN:208:TYR:O	45:UN:212:PHE:HB2	2.21	0.41
44:VA:236:SER:O	44:VA:240:ALA:HB2	2.21	0.41
44:VA:334:THR:O	44:VA:338:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:99:ASN:HA	45:VB:142:GLY:HA3	2.01	0.41
44:VC:68:LEU:HD22	44:VC:120:ASP:CA	2.36	0.41
45:VD:101:TRP:NE1	45:VD:105:HIS:HB2	2.35	0.41
45:VD:193:VAL:HG13	45:VD:194:GLU:N	2.36	0.41
45:VD:318:ARG:HD3	45:VD:358:PRO:CG	2.49	0.41
44:VE:221:ARG:CZ	45:VF:325:GLU:HB3	2.50	0.41
44:VE:398:MET:HG2	45:VF:345:ILE:HG13	2.03	0.41
44:VG:11:GLN:CG	44:VG:74:VAL:HG21	2.35	0.41
44:VG:305:CYS:O	44:VG:307:PRO:HD3	2.21	0.41
44:VI:137:VAL:O	44:VI:168:GLY:HA2	2.20	0.41
44:VI:207:GLU:O	44:VI:210:TYR:N	2.54	0.41
45:VJ:280:GLN:HA	45:VJ:280:GLN:OE1	2.21	0.41
44:VK:28:HIS:O	44:VK:36:MET:HE1	2.20	0.41
44:VK:102:ASN:CB	44:VK:105:ARG:HG3	2.50	0.41
44:VK:312:TYR:HB2	44:VK:343:PHE:CD1	2.56	0.41
44:VM:100:ALA:HA	45:VN:252:LYS:CE	2.51	0.41
44:VM:247:ALA:HB3	44:VM:355:ILE:HG21	2.02	0.41
45:VN:68:LEU:HD23	45:VN:97:ALA:N	2.36	0.41
44:WA:74:VAL:HG23	44:WA:75:ILE:N	2.36	0.41
45:WB:241:ARG:O	45:WB:242:PHE:HD1	2.03	0.41
44:WC:56:THR:HG23	44:WC:58:ALA:N	2.26	0.41
45:WD:25:SER:HB2	45:WD:81:PHE:CE2	2.46	0.41
45:WD:371:SER:O	45:WD:374:ILE:HG12	2.20	0.41
44:WE:86:LEU:HD12	44:WE:86:LEU:HA	1.87	0.41
44:WE:291:ILE:HG13	44:WE:292:THR:H	1.84	0.41
44:WE:343:PHE:HE2	44:WE:351:PHE:HE1	1.69	0.41
45:WF:234:SER:HA	45:WF:237:THR:HG22	2.02	0.41
45:WF:276:ARG:HA	45:WF:276:ARG:HD3	1.88	0.41
45:WF:325:GLU:O	45:WF:329:GLN:HG2	2.21	0.41
44:WG:28:HIS:CE1	44:WG:49:PHE:HA	2.56	0.41
44:WG:119:LEU:O	44:WG:119:LEU:HD23	2.20	0.41
44:WG:259:LEU:HD21	44:WG:316:SER:HB2	2.03	0.41
44:WG:265:ILE:HD11	44:WG:431:ASP:HB3	2.02	0.41
44:WG:332:ILE:HD12	44:WG:351:PHE:CD2	2.55	0.41
45:WH:7:ILE:HB	45:WH:135:ILE:HD12	2.01	0.41
45:WH:165:GLU:OE2	45:WH:200:MET:HE3	2.21	0.41
45:WJ:192:LEU:HD12	45:WJ:196:ALA:HB2	2.02	0.41
45:WL:287:PRO:HA	45:WL:329:GLN:OE1	2.21	0.41
45:WN:103:LYS:HG3	45:WN:108:GLU:HG2	2.03	0.41
1:6H:213:ASN:N	45:FD:360:GLY:O	2.54	0.41
1:6H:214:ASN:ND2	45:FD:362:LYS:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0A:101:ASN:HD21	35:7R:62:PRO:CD	2.17	0.41
3:0B:60:ASN:O	44:JE:245:ASP:HB2	2.21	0.41
3:0B:241:LEU:HD22	45:JL:227:HIS:CD2	2.55	0.41
7:0F:204:PHE:CD2	45:FD:322:SER:HB3	2.55	0.41
8:0G:155:PRO:HB2	44:KM:29:GLY:HA2	2.03	0.41
10:0N:6:VAL:HB	45:IN:128:ASP:OD1	2.20	0.41
2:1A:36:ARG:CZ	45:MF:42:LEU:HD21	2.50	0.41
2:1A:128:HIS:CG	45:AF:360:GLY:HA2	2.56	0.41
4:1C:36:HIS:HA	44:DM:84:ARG:HH21	1.85	0.41
18:1F:88:ASN:CG	45:GL:80:PRO:HG2	2.41	0.41
9:1H:333:LYS:HE2	45:HD:279:GLN:HG2	2.02	0.41
20:1J:148:GLU:OE2	45:IH:219:THR:HG23	2.21	0.41
20:1J:152:LYS:CG	45:IH:227:HIS:CE1	3.04	0.41
20:1J:195:GLN:O	44:IG:370:LYS:HE3	2.20	0.41
21:1K:191:ILE:HD12	45:GD:280:GLN:HG2	2.03	0.41
21:1K:194:LYS:CD	45:GD:276:ARG:HH21	2.34	0.41
22:1L:488:LYS:HE2	45:BH:32:PRO:HB2	1.99	0.41
22:1L:752:LEU:HD13	45:BD:320:ARG:HD2	2.02	0.41
22:1L:868:LYS:HE2	45:CB:39:ASP:OD1	2.21	0.41
22:1L:892:ARG:NH1	44:CC:280:LYS:HZ1	2.17	0.41
10:1N:1:MET:H3	44:II:114:ILE:HD11	1.84	0.41
24:1O:235:MET:HE3	45:TB:55:THR:HB	2.01	0.41
12:1S:17:LYS:HZ3	45:WF:90:PHE:HB2	1.86	0.41
16:1X:49:ILE:HD11	44:ME:282:TYR:HB2	2.03	0.41
29:2F:77:THR:HG21	45:HF:291:GLN:HB3	2.02	0.41
30:2G:14:TYR:HE1	44:KG:339:ARG:CB	2.33	0.41
30:2G:27:ILE:CG2	45:KJ:213:ARG:HD3	2.50	0.41
32:2I:73:LYS:HE2	44:FE:132:LEU:HD22	2.01	0.41
26:2R:289:ASN:H	45:DH:218:THR:CG2	2.25	0.41
32:3I:197:GLN:NE2	44:FK:126:ALA:HB3	2.20	0.41
32:3I:265:LYS:HZ1	45:FJ:117:LEU:HD23	1.85	0.41
26:3R:382:TYR:HA	45:EL:276:ARG:CZ	2.48	0.41
26:3R:465:GLU:OE1	45:EL:79:GLY:HA2	2.21	0.41
34:4F:162:TYR:CD2	44:IM:77:GLU:HG3	2.55	0.41
35:4R:231:TYR:CZ	45:CF:216:LYS:HB3	2.55	0.41
16:4X:6:GLU:CG	45:LL:223:GLY:HA3	2.50	0.41
37:5D:34:PHE:HE1	44:KK:428:LEU:HA	1.82	0.41
37:5D:39:ARG:HB2	44:KK:266:HIS:HA	2.02	0.41
37:5D:48:LEU:HB2	44:KK:434:GLU:CG	2.51	0.41
37:5D:52:VAL:O	44:KK:439:THR:CA	2.62	0.41
37:5D:113:VAL:C	44:NM:373:ARG:HG2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:5F:144:LEU:HD12	38:5F:145:GLU:N	2.35	0.41
38:5H:31:SER:HA	44:OK:279:GLU:OE1	2.20	0.41
38:5H:74:ASP:HB3	38:5H:102:ALA:O	2.21	0.41
38:5H:107:VAL:CG1	38:5H:108:LYS:N	2.83	0.41
39:5J:69:LYS:HD2	45:JH:421:GLU:OE2	2.20	0.41
39:5K:46:LEU:HD23	39:5K:46:LEU:HA	1.93	0.41
11:5Q:22:LEU:H	11:5Q:22:LEU:HD23	1.86	0.41
11:5Q:96:ASP:CG	11:5Q:147:ASN:HB2	2.41	0.41
35:5R:9:VAL:HG11	35:5R:15:HIS:CG	2.56	0.41
35:5R:189:GLU:O	35:5R:192:VAL:HG12	2.20	0.41
35:5R:318:TYR:HE1	45:CJ:273:LEU:HD23	1.86	0.41
35:5R:352:CYS:SG	35:5R:357:LYS:HG2	2.61	0.41
35:5R:395:ALA:O	35:5R:398:LEU:HB2	2.21	0.41
35:5R:431:ILE:HG22	35:5R:502:ARG:O	2.21	0.41
36:5S:224:ILE:HG23	36:5S:228:TYR:CE2	2.56	0.41
35:6R:387:PRO:O	45:EN:276:ARG:NH1	2.53	0.41
35:6R:586:TYR:HE2	35:6R:598:TRP:HZ2	1.69	0.41
35:7R:106:ASN:HA	45:BD:279:GLN:HE22	1.86	0.41
35:7R:129:VAL:HG11	35:7R:144:PHE:CD2	2.55	0.41
35:7R:416:MET:HE1	35:7R:449:GLY:C	2.41	0.41
42:8L:24:UNK:CB	44:RM:58:ALA:HB1	2.50	0.41
42:8L:358:UNK:O	42:8L:362:UNK:N	2.54	0.41
44:AA:18:ASN:ND2	44:AA:67:PHE:HE2	2.18	0.41
44:AA:336:LYS:CE	44:AA:343:PHE:HE1	2.30	0.41
45:AB:257:LEU:HD11	45:AB:314:SER:CB	2.37	0.41
45:AB:418:LEU:HA	45:AB:421:GLU:CG	2.51	0.41
45:AB:420:SER:O	45:AB:423:GLN:HG3	2.20	0.41
44:AC:24:PHE:HE1	44:AC:236:SER:CB	2.34	0.41
45:AD:186:THR:HG23	45:AD:187:LEU:N	2.36	0.41
44:AE:46:ASP:O	44:AE:47:ASP:HB3	2.21	0.41
44:AE:137:VAL:O	44:AE:137:VAL:HG13	2.20	0.41
44:AE:354:GLY:C	44:AE:355:ILE:HG13	2.40	0.41
45:AF:20:PHE:CE1	45:AF:233:MET:HB3	2.56	0.41
45:AF:69:GLU:OE2	45:AF:72:THR:HB	2.21	0.41
45:AF:310:TYR:CD1	45:AF:371:SER:HB3	2.55	0.41
44:AG:422:ARG:HH11	44:AG:422:ARG:HG3	1.85	0.41
45:AH:4:ILE:HD12	45:AH:132:GLY:O	2.20	0.41
45:AH:142:GLY:HA2	45:AH:145:SER:OG	2.20	0.41
45:AH:169:VAL:O	45:AH:169:VAL:HG23	2.19	0.41
45:AH:236:VAL:O	45:AH:236:VAL:HG12	2.21	0.41
45:AH:242:PHE:HB3	45:AH:356:ILE:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AI:205:ASP:OD2	44:AI:304:LYS:N	2.41	0.41
44:AI:262:TYR:HE1	45:AL:392:LYS:O	2.03	0.41
45:AJ:91:VAL:HG21	45:AJ:116:VAL:HG23	2.02	0.41
44:AK:115:VAL:HG21	44:AK:152:LEU:HG	2.02	0.41
44:AK:183:GLU:CG	44:AK:184:PRO:HD3	2.50	0.41
44:AK:288:VAL:O	44:AK:291:ILE:HG12	2.20	0.41
44:AK:420:GLU:CA	44:AK:423:GLU:HG2	2.51	0.41
45:AL:1:MET:C	45:AL:2:ARG:HG2	2.41	0.41
45:AL:60:VAL:O	45:AL:60:VAL:HG13	2.21	0.41
45:AL:86:ARG:HD3	45:AL:88:ASP:CB	2.51	0.41
45:AL:135:ILE:HB	45:AL:166:THR:HG22	2.02	0.41
45:AL:156:ARG:HH11	45:AL:156:ARG:HG2	1.86	0.41
45:AL:174:LYS:HD2	45:AL:175:VAL:N	2.36	0.41
45:AL:287:PRO:HG3	45:AL:329:GLN:NE2	2.36	0.41
44:AM:171:ILE:O	44:AM:171:ILE:HG22	2.21	0.41
44:AM:204:LEU:HD22	44:AM:231:ILE:HD13	2.03	0.41
44:AM:209:ILE:HG21	44:AM:227:LEU:CD2	2.51	0.41
45:AN:310:TYR:N	45:AN:340:TYR:O	2.52	0.41
44:BA:4:VAL:HG23	44:BA:134:GLY:O	2.20	0.41
44:BA:66:VAL:HG23	44:BA:91:GLN:O	2.21	0.41
44:BA:99:ALA:HB3	44:BA:145:THR:HG22	2.03	0.41
44:BA:203:MET:HB2	44:BA:269:LEU:CA	2.40	0.41
44:BC:141:VAL:HG21	44:BC:172:TYR:HE2	1.85	0.41
44:BC:363:VAL:HG13	44:BC:363:VAL:O	2.20	0.41
45:BD:345:ILE:O	45:BD:348:ASN:HB3	2.20	0.41
44:BE:56:THR:HG22	44:BE:60:LYS:O	2.21	0.41
45:BF:69:GLU:OE1	45:BF:71:GLY:N	2.53	0.41
45:BF:149:THR:HG23	45:BF:150:LEU:N	2.36	0.41
45:BF:172:SER:OG	45:BF:175:VAL:HG22	2.21	0.41
45:BF:223:GLY:HA2	45:BF:226:ASN:ND2	2.34	0.41
45:BF:239:CYS:SG	45:BF:239:CYS:O	2.79	0.41
45:BF:309:ARG:HG2	45:BF:340:TYR:HA	2.03	0.41
45:BF:368:VAL:HG13	45:BF:368:VAL:O	2.21	0.41
45:BF:397:TRP:O	45:BF:400:GLY:N	2.48	0.41
45:BH:27:GLU:OE2	45:BH:241:ARG:NH2	2.54	0.41
45:BH:210:ILE:HD13	45:BH:300:MET:HE1	2.01	0.41
44:BI:101:ASN:HA	44:BI:144:GLY:H	1.86	0.41
44:BI:200:VAL:HG13	44:BI:268:MET:SD	2.61	0.41
45:BJ:173:PRO:HD2	45:BJ:380:ARG:CZ	2.51	0.41
45:BJ:183:TYR:OH	45:BJ:388:MET:HB3	2.21	0.41
45:BJ:341:PHE:CE2	45:BJ:349:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:278:ALA:HB2	44:BK:369:ALA:CB	2.51	0.41
44:BK:291:ILE:HG13	44:BK:292:THR:N	2.36	0.41
45:BL:36:TYR:OH	45:BL:38:GLY:HA3	2.20	0.41
45:BL:334:GLN:HE22	45:BL:347:ASN:HA	1.86	0.41
45:BL:341:PHE:CE2	45:BL:349:ILE:HD11	2.55	0.41
44:BM:166:LYS:O	44:BM:167:LEU:HD12	2.20	0.41
45:BN:35:THR:HG1	45:BN:37:HIS:HE2	1.61	0.41
45:BN:206:ALA:O	45:BN:210:ILE:HG22	2.21	0.41
45:BN:238:CYS:HB2	45:BN:318:ARG:HH21	1.85	0.41
45:BN:245:GLN:O	45:BN:246:LEU:HD12	2.20	0.41
45:BN:256:ASN:C	45:BN:257:LEU:HD12	2.42	0.41
45:BN:421:GLU:O	45:BN:424:GLN:HB3	2.21	0.41
44:CA:224:TYR:HB3	46:CA:501:GTP:O6	2.20	0.41
45:CB:6:HIS:CB	45:CB:21:TRP:HZ2	2.34	0.41
45:CB:52:ASN:O	45:CB:59:TYR:HA	2.21	0.41
45:CB:68:LEU:HD23	45:CB:96:GLY:CA	2.50	0.41
45:CB:133:PHE:CD2	45:CB:155:VAL:HG11	2.56	0.41
45:CB:308:GLY:HA3	45:CB:372:THR:OG1	2.21	0.41
45:CB:309:ARG:NH2	45:CB:426:GLN:O	2.43	0.41
45:CB:316:LEU:CG	45:CB:352:SER:HB2	2.43	0.41
45:CB:323:THR:HG21	44:CC:224:TYR:CZ	2.56	0.41
45:CB:361:LEU:HD23	45:CB:361:LEU:HA	1.85	0.41
44:CC:8:HIS:HB2	44:CC:67:PHE:CD1	2.56	0.41
44:CC:19:ALA:HA	44:CC:22:GLU:OE1	2.20	0.41
44:CC:337:THR:O	44:CC:339:ARG:HD2	2.21	0.41
44:CC:349:THR:OG1	45:CD:176:SER:HB3	2.21	0.41
45:CD:7:ILE:HB	45:CD:135:ILE:HD13	2.02	0.41
45:CD:114:ASP:OD1	45:CD:114:ASP:N	2.54	0.41
45:CD:248:SER:CA	45:CD:252:LYS:HE2	2.44	0.41
44:CE:319:TYR:HB2	44:CE:354:GLY:O	2.20	0.41
45:CF:8:GLN:HE21	45:CF:65:LEU:HG	1.84	0.41
45:CF:47:ILE:HD13	45:CF:59:TYR:CE2	2.56	0.41
45:CF:207:LEU:CD2	45:CF:228:LEU:HD23	2.51	0.41
45:CF:265:PHE:HB3	45:CF:374:ILE:CD1	2.51	0.41
45:CF:299:MET:HE3	45:CF:299:MET:HB3	1.70	0.41
45:CF:304:ASP:OD1	45:CF:305:PRO:HD2	2.21	0.41
44:CG:247:ALA:HB1	45:CH:222:TYR:CD2	2.56	0.41
44:CG:266:HIS:O	44:CG:266:HIS:ND1	2.53	0.41
44:CG:322:ASP:OD1	44:CG:322:ASP:C	2.59	0.41
45:CH:44:LEU:HD23	45:CH:44:LEU:HA	1.94	0.41
45:CH:139:LEU:HD23	45:CH:139:LEU:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CH:231:ALA:HB1	45:CH:270:PHE:CG	2.56	0.41
45:CH:356:ILE:HG22	45:CH:358:PRO:HD2	2.02	0.41
44:CI:84:ARG:H	44:CI:84:ARG:HG2	1.67	0.41
45:CJ:200:MET:HE3	45:CJ:268:ILE:HG22	2.02	0.41
45:CJ:257:LEU:HD21	45:CJ:368:VAL:HG11	2.02	0.41
45:CJ:308:GLY:HA3	45:CJ:372:THR:CG2	2.51	0.41
45:CJ:368:VAL:O	45:CJ:368:VAL:HG13	2.21	0.41
45:CJ:372:THR:HA	45:CJ:422:TYR:OH	2.20	0.41
44:CK:46:ASP:HA	44:CK:49:PHE:CD1	2.56	0.41
44:CK:124:LYS:HB2	44:CK:124:LYS:HE3	1.74	0.41
44:CK:432:TYR:HA	44:CK:435:VAL:CG1	2.45	0.41
45:CL:1:MET:C	45:CL:2:ARG:HG2	2.40	0.41
45:CL:14:ASN:OD1	45:CL:73:MET:HE3	2.20	0.41
45:CL:220:PRO:HA	45:CL:224:ASP:OD2	2.21	0.41
45:CL:271:ALA:HB1	45:CL:272:PRO:HA	2.02	0.41
45:CL:346:PRO:HG2	44:CM:394:LYS:CD	2.50	0.41
44:CM:6:SER:CA	44:CM:136:LEU:HB2	2.50	0.41
44:CM:131:GLY:O	44:CM:133:GLN:NE2	2.37	0.41
44:CM:176:GLN:HG2	44:CM:177:VAL:N	2.36	0.41
44:CM:203:MET:CE	44:CM:387:VAL:HG11	2.51	0.41
45:CN:42:LEU:HA	45:CN:45:GLU:HG3	2.02	0.41
45:CN:65:LEU:HD12	45:CN:65:LEU:N	2.36	0.41
45:CN:69:GLU:HA	45:CN:70:PRO:HD3	1.95	0.41
45:CN:199:CYS:HB3	45:CN:264:HIS:O	2.21	0.41
45:CN:258:ILE:CD1	45:CN:266:PHE:HZ	2.34	0.41
44:DA:363:VAL:HG23	44:DA:364:PRO:HD2	2.03	0.41
44:DA:420:GLU:O	44:DA:423:GLU:N	2.53	0.41
44:DA:420:GLU:HA	44:DA:423:GLU:HB2	2.02	0.41
44:DA:425:LEU:HD23	44:DA:425:LEU:HA	1.94	0.41
45:DB:273:LEU:O	45:DB:282:ARG:NH1	2.51	0.41
45:DB:399:THR:HG22	45:DB:403:MET:O	2.20	0.41
45:DB:406:MET:O	45:DB:410:GLU:HG3	2.20	0.41
44:DC:9:VAL:HG21	44:DC:149:LEU:HB3	2.01	0.41
44:DC:102:ASN:HB3	44:DC:105:ARG:HB3	2.03	0.41
44:DC:262:TYR:HB3	44:DC:263:PRO:HD2	2.03	0.41
45:DD:109:GLY:HA2	45:DD:147:MET:HE2	2.01	0.41
45:DD:189:VAL:O	45:DD:190:HIS:C	2.59	0.41
45:DD:286:VAL:N	45:DD:287:PRO:CD	2.84	0.41
44:DE:91:GLN:OE1	44:DE:91:GLN:N	2.54	0.41
44:DE:143:GLY:HA3	46:DE:501:GTP:O2B	2.21	0.41
44:DE:238:LEU:C	44:DE:238:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DE:259:LEU:HD23	44:DE:259:LEU:HA	1.96	0.41
44:DE:263:PRO:HD3	45:DF:396:HIS:CG	2.56	0.41
45:DF:72:THR:HG23	45:DF:73:MET:H	1.85	0.41
45:DF:73:MET:HE2	45:DF:92:PHE:HB3	2.03	0.41
45:DF:383:GLU:O	45:DF:386:THR:HG22	2.20	0.41
44:DG:195:LEU:HD22	44:DG:428:LEU:CD1	2.51	0.41
44:DG:247:ALA:HB3	44:DG:355:ILE:HD11	2.02	0.41
44:DI:216:ASN:HB3	44:DI:275:ILE:O	2.21	0.41
44:DI:308:ARG:CZ	44:DI:340:THR:HG23	2.51	0.41
45:DJ:62:ARG:O	45:DJ:62:ARG:HG3	2.20	0.41
45:DJ:103:LYS:HA	45:DJ:107:THR:OG1	2.21	0.41
45:DJ:363:MET:SD	45:DJ:364:ALA:N	2.94	0.41
44:DK:6:SER:O	44:DK:7:ILE:HD13	2.21	0.41
44:DK:195:LEU:HD12	44:DK:264:ARG:HH22	1.85	0.41
44:DK:313:MET:SD	44:DK:380:ASN:CB	3.09	0.41
45:DL:84:LEU:C	45:DL:86:ARG:HH21	2.24	0.41
45:DL:146:GLY:CA	45:DL:149:THR:HG22	2.49	0.41
45:DL:256:ASN:OD1	45:DL:350:LYS:HD2	2.21	0.41
45:DL:318:ARG:C	45:DL:321:MET:HE1	2.41	0.41
45:DL:376:GLU:CA	45:DL:379:LYS:HE2	2.50	0.41
44:DM:5:ILE:HD13	44:DM:125:LEU:HB3	2.03	0.41
44:DM:145:THR:HG22	46:DM:501:GTP:O3B	2.21	0.41
44:DM:167:LEU:HG	44:DM:200:VAL:HB	2.02	0.41
44:DM:188:ILE:CD1	44:DM:425:LEU:HD11	2.51	0.41
44:DM:301:MET:HE1	44:DM:307:PRO:HG3	2.00	0.41
44:DM:396:ASP:OD2	44:DM:422:ARG:NE	2.34	0.41
45:DN:207:LEU:CD2	45:DN:300:MET:HB2	2.49	0.41
45:DN:245:GLN:HG3	45:DN:353:ILE:HG21	2.02	0.41
45:DN:251:ARG:O	45:DN:254:ALA:HB3	2.21	0.41
45:DN:257:LEU:HD21	45:DN:314:SER:HB3	2.02	0.41
45:DN:276:ARG:HA	45:DN:276:ARG:HD3	1.90	0.41
44:EA:22:GLU:OE1	44:EA:83:TYR:HE2	2.04	0.41
44:EA:201:ALA:O	44:EA:268:MET:N	2.48	0.41
45:EB:28:HIS:CE1	45:EB:241:ARG:HH11	2.38	0.41
45:EB:123:GLU:OE1	45:EB:123:GLU:HA	2.20	0.41
45:EB:314:SER:HA	45:EB:350:LYS:HB3	2.02	0.41
45:EB:391:ARG:HG3	45:EB:391:ARG:HH11	1.85	0.41
44:EC:6:SER:HB2	44:EC:8:HIS:CE1	2.56	0.41
44:EC:14:ILE:CD1	44:EC:74:VAL:HG11	2.50	0.41
44:EC:36:MET:HE3	44:EC:36:MET:N	2.36	0.41
44:EC:108:TYR:HD1	44:EC:112:LYS:NZ	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EC:189:LEU:HD23	44:EC:421:ALA:CB	2.44	0.41
44:EC:243:ARG:NH1	44:EC:244:PHE:HE2	2.19	0.41
44:EC:317:MET:O	44:EC:317:MET:HG3	2.21	0.41
44:EC:346:TRP:HB3	45:ED:391:ARG:HG3	2.03	0.41
44:EC:414:GLU:H	44:EC:417:GLU:HG3	1.86	0.41
44:EC:430:LYS:C	44:EC:433:GLU:HG2	2.41	0.41
45:ED:51:TYR:HD1	45:ED:60:VAL:C	2.24	0.41
45:ED:138:SER:O	45:ED:145:SER:HB3	2.20	0.41
45:ED:321:MET:HE3	45:ED:363:MET:HG2	2.02	0.41
45:ED:391:ARG:HG3	45:ED:391:ARG:HH11	1.86	0.41
44:EE:66:VAL:HG13	44:EE:66:VAL:O	2.20	0.41
44:EE:109:THR:CG2	44:EE:110:ILE:HD12	2.51	0.41
44:EE:229:ARG:O	44:EE:232:ALA:N	2.54	0.41
44:EE:271:SER:OG	44:EE:301:MET:SD	2.79	0.41
45:EF:174:LYS:HG3	45:EF:175:VAL:N	2.36	0.41
45:EF:209:ASP:O	45:EF:213:ARG:HG2	2.21	0.41
45:EF:261:PRO:HD3	44:EG:406:HIS:CB	2.51	0.41
45:EF:300:MET:HE3	45:EF:300:MET:HA	2.03	0.41
45:EF:329:GLN:HE21	45:EF:329:GLN:HB3	1.65	0.41
45:EF:373:ALA:O	45:EF:376:GLU:HB2	2.21	0.41
44:EG:268:MET:CB	44:EG:380:ASN:HB2	2.50	0.41
44:EG:276:ILE:O	44:EG:369:ALA:HB3	2.20	0.41
44:EG:326:LYS:CE	45:EH:212:PHE:HE2	2.33	0.41
45:EH:318:ARG:O	45:EH:321:MET:HE1	2.20	0.41
45:EH:324:LYS:O	45:EH:328:GLU:OE1	2.39	0.41
45:EH:334:GLN:NE2	45:EH:348:ASN:H	2.19	0.41
45:EH:344:TRP:CZ3	45:EH:345:ILE:HB	2.56	0.41
45:EH:362:LYS:HE3	45:EH:362:LYS:HB3	1.95	0.41
44:EI:1:MET:HE2	45:EJ:94:GLN:CB	2.51	0.41
44:EI:4:VAL:HG13	44:EI:4:VAL:O	2.21	0.41
44:EI:71:GLU:CD	44:EI:73:THR:H	2.24	0.41
44:EI:119:LEU:HD23	44:EI:119:LEU:HA	1.96	0.41
44:EI:387:VAL:HG23	44:EI:388:PHE:N	2.36	0.41
45:EJ:255:VAL:CG2	44:EK:407:TRP:HZ3	2.33	0.41
45:EJ:326:VAL:O	45:EJ:330:MET:HG2	2.21	0.41
44:EK:99:ALA:CB	44:EK:145:THR:HB	2.51	0.41
44:EK:168:GLY:O	44:EK:201:ALA:HA	2.21	0.41
44:EK:226:ASN:ND2	44:EK:367:ASP:OD2	2.53	0.41
44:EK:248:LEU:HD23	44:EK:355:ILE:HD13	2.03	0.41
44:EK:254:GLU:HA	44:EK:257:THR:OG1	2.21	0.41
44:EK:332:ILE:HG23	44:EK:351:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EK:439:THR:HG21	45:EL:390:ARG:HD2	2.02	0.41
45:EL:143:THR:CG2	45:EL:144:GLY:H	2.32	0.41
45:EL:259:PRO:CD	45:EL:260:PHE:N	2.83	0.41
45:EL:311:LEU:CD2	45:EL:425:TYR:HE2	2.32	0.41
44:EM:191:THR:O	44:EM:195:LEU:HB2	2.21	0.41
44:EM:272:TYR:HD1	44:EM:376:CYS:HB2	1.79	0.41
44:EM:287:SER:HB3	44:EM:290:GLU:HG2	2.02	0.41
44:EM:296:PHE:CE2	44:EM:335:ILE:HG13	2.52	0.41
44:EM:431:ASP:O	44:EM:435:VAL:HG23	2.21	0.41
45:EN:119:VAL:O	45:EN:120:VAL:C	2.58	0.41
44:FA:70:LEU:HD13	44:FA:110:ILE:CD1	2.51	0.41
44:FA:209:ILE:HD13	44:FA:227:LEU:HB3	2.03	0.41
44:FA:272:TYR:HE2	44:FA:274:PRO:O	2.04	0.41
44:FA:320:ARG:NH2	44:FA:360:PRO:HA	2.36	0.41
44:FA:409:VAL:HG21	44:FA:415:GLU:OE1	2.20	0.41
45:FB:142:GLY:HA2	45:FB:184:ASN:ND2	2.36	0.41
44:FC:141:VAL:HG21	44:FC:172:TYR:HD1	1.86	0.41
44:FC:229:ARG:NH1	44:FC:363:VAL:HG21	2.35	0.41
44:FC:404:PHE:CZ	45:FD:259:PRO:HG3	2.56	0.41
45:FD:47:ILE:HG12	45:FD:51:TYR:HD2	1.86	0.41
45:FD:73:MET:SD	45:FD:73:MET:N	2.92	0.41
45:FD:388:MET:CE	45:FD:394:PHE:HD1	2.34	0.41
44:FE:22:GLU:OE2	44:FE:83:TYR:HE2	2.04	0.41
44:FE:216:ASN:OD1	44:FE:280:LYS:HE3	2.20	0.41
44:FE:269:LEU:CD1	44:FE:303:ALA:HB3	2.51	0.41
45:FF:199:CYS:O	45:FF:265:PHE:HA	2.21	0.41
44:FG:174:SER:HB3	44:FG:207:GLU:HB2	2.02	0.41
44:FG:237:SER:HA	44:FG:320:ARG:NH1	2.36	0.41
44:FG:324:VAL:HG23	44:FG:326:LYS:CG	2.51	0.41
45:FH:7:ILE:HG12	45:FH:64:ILE:CD1	2.51	0.41
45:FH:42:LEU:CA	45:FH:45:GLU:HG3	2.48	0.41
45:FH:101:TRP:HB2	45:FH:184:ASN:HB3	2.03	0.41
45:FH:179:VAL:O	45:FH:388:MET:HE1	2.21	0.41
44:FI:23:LEU:HD21	44:FI:236:SER:CB	2.51	0.41
44:FI:31:GLN:O	44:FI:34:GLY:N	2.36	0.41
45:FJ:113:ILE:HD13	45:FJ:150:LEU:HD21	2.03	0.41
45:FJ:180:VAL:HG11	45:FJ:398:TYR:OH	2.21	0.41
44:FK:62:VAL:CG2	44:FK:63:PRO:HD2	2.51	0.41
44:FK:80:THR:O	44:FK:84:ARG:HD2	2.20	0.41
44:FK:177:VAL:HG13	45:FL:327:ASP:HB3	2.03	0.41
44:FK:245:ASP:OD1	44:FK:246:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FL:1:MET:O	45:FL:2:ARG:HG3	2.20	0.41
45:FL:183:TYR:HE2	45:FL:394:PHE:CB	2.34	0.41
45:FL:355:ASP:C	45:FL:356:ILE:HD13	2.40	0.41
44:FM:11:GLN:O	44:FM:14:ILE:HB	2.21	0.41
44:FM:103:PHE:HE2	44:FM:413:MET:HE1	1.85	0.41
44:FM:216:ASN:CB	44:FM:275:ILE:HG22	2.51	0.41
44:FM:217:LEU:HD13	44:FM:219:ILE:HD11	2.02	0.41
44:FM:261:PRO:HG2	44:FM:313:MET:HE2	2.01	0.41
45:FN:19:LYS:HA	45:FN:22:GLU:HB2	2.03	0.41
45:FN:61:PRO:HD2	45:FN:84:LEU:O	2.21	0.41
45:FN:150:LEU:CD2	45:FN:154:LYS:HZ2	2.33	0.41
45:FN:170:VAL:HG22	45:FN:201:VAL:CG1	2.50	0.41
45:FN:290:THR:HG23	45:FN:291:GLN:N	2.36	0.41
44:GA:70:LEU:HA	44:GA:95:GLY:N	2.35	0.41
44:GA:104:ALA:C	44:GA:107:HIS:H	2.24	0.41
44:GA:221:ARG:N	44:GA:222:PRO:HD3	2.36	0.41
44:GA:226:ASN:O	44:GA:230:LEU:HD23	2.21	0.41
44:GA:298:PRO:HA	44:GA:307:PRO:HG2	2.03	0.41
45:GB:47:ILE:HG12	45:GB:51:TYR:HB2	2.03	0.41
45:GB:69:GLU:HA	45:GB:70:PRO:HD3	1.89	0.41
45:GB:270:PHE:CD2	45:GB:273:LEU:HD21	2.56	0.41
45:GB:398:TYR:HB3	45:GB:403:MET:HE2	2.01	0.41
44:GC:90:GLU:HG2	44:HC:280:LYS:HZ1	1.85	0.41
44:GC:203:MET:HE1	44:GC:267:PHE:CD1	2.56	0.41
45:GD:47:ILE:HD12	45:GD:59:TYR:CZ	2.56	0.41
45:GD:113:ILE:CA	45:GD:116:VAL:HG12	2.46	0.41
45:GD:174:LYS:CD	45:GD:175:VAL:HG13	2.51	0.41
45:GD:221:THR:HG23	45:GD:223:GLY:H	1.86	0.41
45:GD:405:GLU:O	45:GD:408:PHE:HB2	2.21	0.41
44:GE:188:ILE:HD13	44:GE:395:PHE:CG	2.56	0.41
45:GF:178:THR:O	45:GF:178:THR:HG23	2.21	0.41
44:GG:276:ILE:HG12	44:GG:281:ALA:HA	2.02	0.41
44:GG:401:LYS:HA	44:GG:401:LYS:HD3	1.91	0.41
45:GH:296:ALA:C	45:GH:299:MET:HE1	2.41	0.41
45:GH:331:LEU:HA	45:GH:334:GLN:HB3	2.03	0.41
45:GH:344:TRP:O	45:GH:344:TRP:HE3	2.03	0.41
45:GH:375:GLN:O	45:GH:379:LYS:HG3	2.21	0.41
45:GH:377:MET:O	45:GH:380:ARG:HG2	2.20	0.41
44:GI:71:GLU:HA	44:GI:72:PRO:HD3	1.86	0.41
44:GI:205:ASP:OD2	44:GI:304:LYS:N	2.54	0.41
44:GI:317:MET:HE2	44:GI:319:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GI:329:ASN:HD21	45:GL:175:VAL:HG11	1.86	0.41
45:GJ:207:LEU:O	45:GJ:210:ILE:N	2.53	0.41
45:GJ:221:THR:O	45:GJ:224:ASP:N	2.54	0.41
45:GJ:289:LEU:HD11	45:GJ:363:MET:CB	2.51	0.41
44:GK:51:THR:O	44:GK:52:PHE:HD1	2.03	0.41
44:GK:181:VAL:CG2	45:GL:256:ASN:HB3	2.49	0.41
44:GK:225:THR:HA	44:GK:228:ASN:OD1	2.20	0.41
44:GK:237:SER:HA	44:GK:320:ARG:HH12	1.82	0.41
44:GK:343:PHE:HB3	44:GK:347:CYS:O	2.21	0.41
45:GL:221:THR:O	45:GL:225:LEU:HG	2.20	0.41
44:GM:52:PHE:O	44:GM:64:ARG:N	2.37	0.41
44:GM:89:PRO:HB2	44:HM:280:LYS:HZ1	1.84	0.41
44:GM:372:MET:HA	44:GM:372:MET:HE3	2.03	0.41
45:GN:139:LEU:HD11	45:GN:184:ASN:O	2.21	0.41
45:GN:295:ASP:OD1	45:GN:296:ALA:N	2.53	0.41
44:HA:145:THR:N	46:HA:501:GTP:O2G	2.30	0.41
44:HA:169:PHE:CE2	44:HA:235:ILE:HD12	2.56	0.41
44:HA:242:LEU:HD21	44:HA:251:ASP:HA	2.03	0.41
44:HA:401:LYS:HG2	44:HA:401:LYS:O	2.21	0.41
45:HB:101:TRP:HB2	45:HB:184:ASN:HB2	2.00	0.41
45:HB:215:LEU:HA	45:HB:275:SER:CA	2.51	0.41
45:HB:223:GLY:O	45:HB:227:HIS:HB2	2.20	0.41
44:HC:174:SER:HB3	44:HC:175:PRO:CD	2.50	0.41
44:HC:217:LEU:O	44:HC:219:ILE:HD12	2.20	0.41
45:HD:137:HIS:O	45:HD:168:SER:HA	2.21	0.41
44:HE:13:GLY:HA2	44:HE:16:VAL:HG12	2.02	0.41
44:HE:224:TYR:CD1	45:HF:323:THR:HG21	2.56	0.41
44:HE:256:GLN:NE2	45:HH:397:TRP:CZ2	2.89	0.41
44:HE:258:ASN:C	44:HE:259:LEU:HD22	2.40	0.41
44:HE:298:PRO:HB3	44:HE:307:PRO:HD2	2.02	0.41
45:HF:4:ILE:HG22	45:HF:131:GLN:HB2	2.01	0.41
45:HF:30:ILE:HD13	45:HF:36:TYR:HA	2.02	0.41
44:HG:89:PRO:HG2	44:IG:280:LYS:HB2	2.03	0.41
44:HG:233:GLN:O	44:HG:236:SER:HB3	2.20	0.41
44:HG:308:ARG:NH1	44:HG:340:THR:HG1	2.17	0.41
44:HG:326:LYS:CB	45:HJ:220:PRO:HG2	2.43	0.41
45:HH:4:ILE:HD11	45:HH:50:TYR:HE1	1.86	0.41
45:HH:49:VAL:HG12	45:HH:50:TYR:CE1	2.56	0.41
45:HH:60:VAL:HG11	45:HH:86:ARG:HH21	1.86	0.41
45:HH:101:TRP:HZ3	45:HH:187:LEU:HD22	1.86	0.41
45:HH:267:MET:SD	45:HH:299:MET:CE	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HH:276:ARG:HD3	45:HH:276:ARG:HA	1.89	0.41
44:HI:115:VAL:O	44:HI:119:LEU:HD23	2.20	0.41
44:HI:168:GLY:O	44:HI:201:ALA:HA	2.20	0.41
44:HI:264:ARG:HA	44:HI:264:ARG:HD2	1.82	0.41
44:HI:353:VAL:HG13	44:HI:353:VAL:O	2.20	0.41
45:HJ:217:LEU:HD11	45:HJ:220:PRO:HB3	2.02	0.41
45:HJ:288:GLU:HA	45:HJ:291:GLN:CG	2.50	0.41
44:HK:9:VAL:HG12	44:HK:68:LEU:CB	2.51	0.41
44:HK:224:TYR:CG	45:HL:323:THR:HG21	2.56	0.41
44:HK:269:LEU:HD23	44:HK:379:SER:O	2.21	0.41
44:HK:353:VAL:O	44:HK:353:VAL:HG23	2.21	0.41
45:HL:3:GLU:CG	45:HL:127:CYS:HB2	2.51	0.41
44:HM:6:SER:HG	44:HM:136:LEU:HB2	1.85	0.41
44:HM:96:LYS:HE2	44:HM:96:LYS:HA	2.02	0.41
44:HM:100:ALA:O	45:HN:255:VAL:HG11	2.21	0.41
44:HM:143:GLY:O	44:HM:186:ASN:ND2	2.54	0.41
44:HM:312:TYR:HB2	44:HM:343:PHE:CD1	2.56	0.41
45:HN:44:LEU:HD23	45:HN:44:LEU:HA	1.87	0.41
45:HN:149:THR:HG23	45:HN:150:LEU:N	2.36	0.41
45:HN:212:PHE:O	45:HN:216:LYS:HA	2.20	0.41
45:HN:269:GLY:N	45:HN:367:PHE:O	2.44	0.41
45:HN:385:PHE:CA	45:HN:387:ALA:HA	2.51	0.41
44:IA:71:GLU:OE1	44:IA:73:THR:HB	2.21	0.41
44:IA:288:VAL:HA	44:IA:291:ILE:HD11	2.02	0.41
44:IA:289:ALA:O	44:IA:292:THR:HG22	2.21	0.41
45:IB:20:PHE:CD1	45:IB:233:MET:HB3	2.55	0.41
45:IB:187:LEU:HD11	45:IB:408:PHE:CE1	2.56	0.41
44:IC:11:GLN:CD	44:IC:74:VAL:HG21	2.41	0.41
44:IC:210:TYR:CZ	45:ID:324:LYS:HA	2.54	0.41
45:ID:45:GLU:OE1	45:ID:46:ARG:NH1	2.54	0.41
45:ID:152:ILE:O	45:ID:156:ARG:HB2	2.21	0.41
45:ID:166:THR:HG22	45:ID:168:SER:OG	2.20	0.41
45:ID:185:ALA:O	45:ID:188:SER:OG	2.25	0.41
45:ID:269:GLY:HA2	45:ID:300:MET:CE	2.50	0.41
44:IE:74:VAL:HG23	44:IE:75:ILE:N	2.35	0.41
44:IE:145:THR:HG23	44:IE:146:GLY:N	2.36	0.41
44:IE:402:ARG:C	44:IE:405:VAL:HG13	2.40	0.41
45:IF:20:PHE:O	45:IF:23:VAL:HB	2.21	0.41
45:IF:177:ASP:N	45:IF:181:GLU:OE2	2.34	0.41
45:IF:330:MET:O	45:IF:333:VAL:HG12	2.21	0.41
44:IG:11:GLN:O	44:IG:14:ILE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:203:MET:HB2	44:IG:269:LEU:HA	2.02	0.41
45:IH:133:PHE:CE2	45:IH:155:VAL:CG1	3.04	0.41
45:IH:256:ASN:HB3	45:IH:350:LYS:HD2	2.02	0.41
44:II:1:MET:HE1	45:IL:70:PRO:HG3	2.01	0.41
44:II:103:PHE:CE2	44:II:189:LEU:HD13	2.56	0.41
44:II:137:VAL:O	44:II:137:VAL:HG13	2.21	0.41
44:II:210:TYR:CE2	45:IJ:324:LYS:HG3	2.56	0.41
44:II:224:TYR:CD2	45:IJ:323:THR:HG21	2.56	0.41
44:II:276:ILE:HB	44:II:281:ALA:HB2	2.03	0.41
44:II:280:LYS:HA	44:II:280:LYS:HD2	1.87	0.41
44:II:320:ARG:HD3	44:II:360:PRO:N	2.35	0.41
44:II:407:TRP:HZ3	45:IJ:255:VAL:CA	2.25	0.41
44:II:421:ALA:O	44:II:425:LEU:HD23	2.21	0.41
45:IJ:7:ILE:HD11	45:IJ:120:VAL:HG23	2.03	0.41
45:IJ:103:LYS:HA	45:IJ:401:GLU:OE1	2.21	0.41
45:IJ:200:MET:HA	45:IJ:266:PHE:O	2.20	0.41
45:IJ:207:LEU:O	45:IJ:210:ILE:HG22	2.21	0.41
45:IJ:234:SER:O	45:IJ:238:CYS:N	2.54	0.41
45:IJ:377:MET:HA	45:IJ:380:ARG:NE	2.35	0.41
44:IK:1:MET:CE	45:IN:94:GLN:HG3	2.51	0.41
44:IK:60:LYS:HZ1	44:IK:86:LEU:HA	1.85	0.41
44:IK:89:PRO:HD3	45:JL:281:TYR:CE2	2.54	0.41
44:IK:141:VAL:HG13	44:IK:190:SER:OG	2.21	0.41
44:IK:174:SER:OG	44:IK:207:GLU:HB2	2.21	0.41
44:IK:313:MET:HE1	44:IK:381:SER:HA	2.03	0.41
45:IL:4:ILE:HG13	45:IL:4:ILE:O	2.21	0.41
45:IL:58:ARG:CZ	44:JI:283:HIS:NE2	2.84	0.41
45:IL:217:LEU:HD13	45:IL:217:LEU:HA	1.88	0.41
45:IL:262:ARG:HG2	45:IL:262:ARG:NH1	2.34	0.41
45:IL:318:ARG:NE	45:IL:358:PRO:HG3	2.36	0.41
44:IM:105:ARG:HG2	44:IM:411:GLU:HG3	2.03	0.41
44:IM:179:THR:HG21	46:IM:501:GTP:H3'	2.03	0.41
44:IM:189:LEU:HD11	44:IM:418:PHE:CE1	2.56	0.41
44:IM:221:ARG:NH1	45:IN:325:GLU:H	2.19	0.41
45:IN:273:LEU:HB2	45:IN:292:GLN:HE22	1.84	0.41
45:IN:325:GLU:HA	45:IN:328:GLU:CD	2.41	0.41
44:JA:254:GLU:HB3	44:JA:258:ASN:HD21	1.85	0.41
44:JA:344:VAL:HG22	44:JA:345:ASP:N	2.36	0.41
45:JB:15:GLN:HA	45:JB:15:GLN:OE1	2.20	0.41
45:JB:48:ASN:HA	45:JB:51:TYR:O	2.21	0.41
45:JB:76:VAL:HG13	45:JB:77:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:166:THR:CG2	45:JB:196:ALA:HB1	2.51	0.41
45:JB:170:VAL:HG22	45:JB:203:ASP:OD1	2.21	0.41
45:JB:388:MET:O	45:JB:393:ALA:HB3	2.20	0.41
44:JC:153:LEU:O	44:JC:157:LEU:HG	2.21	0.41
45:JD:65:LEU:HD11	45:JD:85:PHE:CE1	2.56	0.41
45:JD:249:ASP:OD1	45:JD:252:LYS:HB2	2.21	0.41
44:JE:27:GLU:OE2	44:JE:244:PHE:HE2	2.04	0.41
44:JE:72:PRO:HG3	44:JE:95:GLY:O	2.21	0.41
44:JE:243:ARG:O	44:JE:244:PHE:CD1	2.74	0.41
44:JE:276:ILE:O	44:JE:369:ALA:HB3	2.20	0.41
45:JF:2:ARG:HH12	45:JF:240:LEU:CG	2.31	0.41
45:JF:101:TRP:CD1	45:JF:146:GLY:HA2	2.56	0.41
45:JF:203:ASP:OD2	45:JF:301:CYS:HA	2.21	0.41
45:JF:297:LYS:HD3	45:JF:297:LYS:C	2.42	0.41
44:JG:26:LEU:CD1	44:JG:363:VAL:HA	2.51	0.41
44:JG:60:LYS:HE2	44:KG:283:HIS:CD2	2.56	0.41
44:JG:198:THR:HG23	44:JG:266:HIS:CE1	2.56	0.41
44:JG:239:THR:HG23	44:JG:243:ARG:HH21	1.86	0.41
44:JG:287:SER:HA	44:JG:373:ARG:HH22	1.86	0.41
45:JH:113:ILE:C	45:JH:116:VAL:HG12	2.40	0.41
45:JH:134:GLN:O	45:JH:135:ILE:HD13	2.21	0.41
45:JH:164:MET:HE2	45:JH:196:ALA:HA	2.02	0.41
45:JH:242:PHE:CZ	45:JH:356:ILE:HG21	2.55	0.41
45:JH:284:LEU:HD13	45:JH:362:LYS:HE3	2.02	0.41
44:JI:64:ARG:HG3	44:JI:125:LEU:HD11	2.01	0.41
45:JJ:20:PHE:O	45:JJ:24:ILE:HG12	2.21	0.41
45:JJ:101:TRP:HE1	45:JJ:105:HIS:HD2	1.67	0.41
44:JK:121:ARG:HH11	44:JK:121:ARG:HG2	1.85	0.41
45:JL:284:LEU:CD1	45:JL:362:LYS:HB3	2.44	0.41
45:JL:409:THR:HA	45:JL:412:GLU:HG2	2.02	0.41
44:JM:13:GLY:HA2	44:JM:16:VAL:HG22	2.03	0.41
44:JM:75:ILE:HG22	44:JM:75:ILE:O	2.20	0.41
44:JM:101:ASN:OD1	45:JN:252:LYS:HE2	2.21	0.41
44:JM:275:ILE:CD1	44:JM:368:LEU:HD11	2.50	0.41
45:JN:55:THR:C	45:JN:57:GLY:H	2.24	0.41
45:JN:237:THR:HG1	45:JN:240:LEU:HB3	1.85	0.41
45:JN:242:PHE:HB3	45:JN:243:PRO:HD2	2.01	0.41
45:JN:318:ARG:HD3	45:JN:364:ALA:CB	2.51	0.41
44:KA:141:VAL:HG11	44:KA:187:SER:HA	2.01	0.41
44:KA:256:GLN:O	45:KD:397:TRP:CH2	2.73	0.41
44:KA:318:MET:CE	44:KA:378:ILE:HG22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KA:320:ARG:CA	44:KA:356:ASN:HB3	2.46	0.41
45:KB:154:LYS:NZ	45:KB:158:GLU:OE2	2.54	0.41
45:KB:310:TYR:O	45:KB:342:VAL:HG12	2.20	0.41
44:KC:73:THR:CG2	45:KD:247:ASN:HD21	2.33	0.41
44:KC:179:THR:HG21	46:KC:501:GTP:O3'	2.21	0.41
45:KD:139:LEU:HD23	45:KD:188:SER:OG	2.21	0.41
45:KD:167:PHE:HE2	45:KD:200:MET:CE	2.34	0.41
45:KD:238:CYS:CB	45:KD:318:ARG:HD3	2.51	0.41
45:KD:367:PHE:CE2	45:KD:369:GLY:HA3	2.55	0.41
45:KD:376:GLU:HA	45:KD:379:LYS:HB2	2.02	0.41
44:KE:253:THR:O	44:KE:256:GLN:NE2	2.35	0.41
45:KF:105:HIS:O	45:KF:106:TYR:HD2	2.03	0.41
44:KG:101:ASN:HB2	45:KH:255:VAL:HG11	2.02	0.41
44:KG:194:LEU:CD1	44:KG:267:PHE:HZ	2.34	0.41
44:KG:209:ILE:HG22	44:KG:227:LEU:CD2	2.51	0.41
44:KG:394:LYS:NZ	45:KH:346:PRO:HG2	2.35	0.41
45:KH:117:LEU:O	45:KH:120:VAL:HG12	2.21	0.41
45:KH:286:VAL:N	45:KH:287:PRO:CD	2.84	0.41
45:KH:321:MET:SD	45:KH:353:ILE:HG23	2.60	0.41
45:KH:341:PHE:HB3	45:KH:348:ASN:HD21	1.85	0.41
45:KH:362:LYS:HB2	45:KH:362:LYS:HE2	1.73	0.41
44:KI:84:ARG:HG3	44:KI:85:GLN:N	2.35	0.41
44:KI:121:ARG:O	44:KI:121:ARG:HD3	2.20	0.41
45:KJ:174:LYS:HD3	45:KJ:174:LYS:N	2.35	0.41
45:KJ:238:CYS:SG	45:KJ:239:CYS:N	2.94	0.41
45:KJ:330:MET:HE2	45:KJ:349:ILE:HD12	2.03	0.41
44:KK:66:VAL:HG11	44:KK:122:ILE:CD1	2.38	0.41
44:KK:248:LEU:HD23	44:KK:353:VAL:HG23	2.03	0.41
44:KK:306:ASP:OD1	44:KK:307:PRO:HD2	2.21	0.41
44:KK:311:LYS:HB3	44:KK:344:VAL:HB	2.03	0.41
45:KL:167:PHE:HE2	45:KL:233:MET:HG3	1.86	0.41
45:KL:235:GLY:CA	45:KL:366:THR:HG21	2.38	0.41
45:KL:245:GLN:O	45:KL:246:LEU:HD22	2.21	0.41
45:KL:309:ARG:HH22	45:KL:343:GLU:HG3	1.83	0.41
45:KL:311:LEU:HD23	45:KL:372:THR:HG23	2.02	0.41
45:KL:398:TYR:HA	45:KL:401:GLU:OE2	2.21	0.41
44:KM:150:GLY:O	44:KM:154:LEU:HG	2.20	0.41
44:KM:166:LYS:HB2	44:KM:199:ASP:H	1.86	0.41
44:KM:292:THR:CB	44:KM:331:SER:HG	2.34	0.41
45:KN:163:ILE:HD12	45:KN:163:ILE:N	2.36	0.41
45:KN:257:LEU:HD21	45:KN:314:SER:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LA:41:THR:HG22	44:LA:42:ILE:H	1.86	0.41
44:LA:141:VAL:HG13	44:LA:147:SER:HB3	2.03	0.41
44:LA:172:TYR:CG	44:LA:203:MET:HE3	2.56	0.41
44:LA:254:GLU:HG3	45:LD:98:GLY:CA	2.46	0.41
45:LB:2:ARG:CZ	45:LB:240:LEU:HG	2.51	0.41
45:LB:309:ARG:HG2	45:LB:339:SER:O	2.21	0.41
45:LB:358:PRO:HG3	45:LB:364:ALA:HB3	2.02	0.41
45:LB:374:ILE:HG22	45:LB:422:TYR:CZ	2.56	0.41
45:LB:385:PHE:CE2	45:LB:412:GLU:HB2	2.56	0.41
44:LC:155:GLU:HG3	44:LC:197:HIS:NE2	2.36	0.41
45:LD:34:GLY:HA3	45:LD:58:ARG:HG3	2.03	0.41
45:LD:102:ALA:HB3	45:LD:401:GLU:OE2	2.20	0.41
45:LD:203:ASP:OD2	45:LD:302:ALA:N	2.28	0.41
45:LD:323:THR:O	45:LD:326:VAL:HB	2.21	0.41
44:LE:324:VAL:HG12	44:LE:326:LYS:HG3	2.03	0.41
45:LF:101:TRP:NE1	45:LF:146:GLY:HA2	2.36	0.41
45:LF:203:ASP:OD2	45:LF:302:ALA:HB3	2.21	0.41
45:LF:401:GLU:OE1	45:LF:401:GLU:N	2.54	0.41
44:LG:72:PRO:HG2	45:LH:1:MET:HE2	2.03	0.41
44:LG:106:GLY:HA2	44:LG:110:ILE:CG2	2.50	0.41
45:LH:32:PRO:HA	45:LH:81:PHE:CD1	2.56	0.41
45:LH:260:PHE:HB3	45:LH:261:PRO:HD2	2.03	0.41
44:LI:84:ARG:HG3	44:LI:85:GLN:N	2.35	0.41
44:LI:161:TYR:HB3	44:LI:164:LYS:HG2	2.01	0.41
44:LI:176:GLN:HG2	44:LI:177:VAL:N	2.36	0.41
44:LI:206:ASN:HB3	44:LI:210:TYR:OH	2.20	0.41
44:LI:223:THR:HG22	44:LI:224:TYR:H	1.86	0.41
45:LJ:2:ARG:NH1	45:LJ:46:ARG:HH22	2.19	0.41
45:LJ:241:ARG:O	45:LJ:242:PHE:HD1	2.04	0.41
44:LK:71:GLU:HA	44:LK:72:PRO:HD3	1.89	0.41
44:LK:119:LEU:HD23	44:LK:119:LEU:HA	1.86	0.41
44:LK:223:THR:HG22	44:LK:224:TYR:N	2.36	0.41
44:LK:425:LEU:O	44:LK:429:GLU:HG3	2.21	0.41
44:LK:434:GLU:O	44:LK:437:ILE:HG12	2.21	0.41
45:LL:68:LEU:N	45:LL:68:LEU:HD12	2.35	0.41
45:LL:276:ARG:O	45:LL:279:GLN:HG2	2.21	0.41
45:LL:390:ARG:HD2	45:LL:391:ARG:N	2.36	0.41
45:LL:405:GLU:HG3	45:LL:406:MET:HE3	2.01	0.41
44:LM:62:VAL:O	44:LM:62:VAL:HG23	2.21	0.41
44:LM:317:MET:HA	44:LM:376:CYS:O	2.21	0.41
45:LN:31:ASP:OD2	45:LN:33:THR:OG1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LN:33:THR:O	45:LN:58:ARG:NE	2.53	0.41
45:LN:262:ARG:NH1	45:LN:421:GLU:OE2	2.53	0.41
45:LN:303:ALA:N	45:LN:377:MET:HE3	2.35	0.41
44:MA:137:VAL:HG13	44:MA:168:GLY:HA2	2.03	0.41
44:MA:282:TYR:HE1	44:MA:371:VAL:HG12	1.86	0.41
45:MB:174:LYS:HB2	45:MB:205:GLU:CD	2.41	0.41
45:MB:319:GLY:HA2	45:MB:357:PRO:HD3	2.03	0.41
44:MC:14:ILE:HD13	44:MC:75:ILE:HD13	2.02	0.41
44:MC:156:ARG:HG3	44:MC:156:ARG:NH1	2.35	0.41
45:MD:2:ARG:HH22	45:MD:46:ARG:NH1	2.18	0.41
45:MD:34:GLY:O	45:MD:58:ARG:HA	2.21	0.41
45:MD:237:THR:OG1	45:MD:240:LEU:HD23	2.21	0.41
45:MD:248:SER:O	45:MD:248:SER:OG	2.37	0.41
44:ME:294:SER:HA	44:ME:297:GLU:HG3	2.03	0.41
45:MF:6:HIS:CD2	45:MF:8:GLN:HB3	2.55	0.41
45:MF:12:CYS:HB3	45:MF:138:SER:CB	2.50	0.41
45:MF:113:ILE:O	45:MF:116:VAL:HG12	2.21	0.41
45:MF:238:CYS:HB2	45:MF:318:ARG:HE	1.84	0.41
45:MF:374:ILE:O	45:MF:377:MET:HB2	2.21	0.41
45:MF:396:HIS:CG	45:MF:397:TRP:N	2.89	0.41
44:MG:22:GLU:HG3	44:MG:83:TYR:CZ	2.55	0.41
44:MG:132:LEU:HD23	44:MG:134:GLY:N	2.36	0.41
44:MG:165:SER:OG	44:MG:256:GLN:NE2	2.54	0.41
44:MG:229:ARG:O	44:MG:232:ALA:HB3	2.21	0.41
44:MG:290:GLU:CG	44:MG:291:ILE:H	2.32	0.41
44:MG:344:VAL:HG22	44:MG:345:ASP:N	2.36	0.41
45:MH:286:VAL:N	45:MH:287:PRO:CD	2.84	0.41
45:MH:367:PHE:CZ	45:MH:369:GLY:HA3	2.56	0.41
44:MI:35:GLN:HG2	44:MI:60:LYS:CA	2.51	0.41
44:MI:182:VAL:O	44:MI:182:VAL:HG22	2.20	0.41
44:MI:183:GLU:CD	44:MI:184:PRO:HD3	2.41	0.41
44:MI:183:GLU:CG	44:MI:184:PRO:HD3	2.51	0.41
44:MI:250:VAL:HG21	44:MI:318:MET:SD	2.61	0.41
44:MI:254:GLU:HA	44:MI:257:THR:HG22	2.02	0.41
45:MJ:61:PRO:CG	45:MJ:84:LEU:HB3	2.50	0.41
45:MJ:68:LEU:HD23	45:MJ:97:ALA:CB	2.39	0.41
45:MJ:228:LEU:HD21	45:MJ:273:LEU:HD11	2.02	0.41
45:MJ:257:LEU:HD23	45:MJ:368:VAL:HG12	2.03	0.41
45:MJ:274:THR:HG21	45:MJ:279:GLN:HG3	2.01	0.41
45:MJ:362:LYS:HG3	45:MJ:363:MET:HG3	2.02	0.41
44:MK:156:ARG:HA	44:MK:159:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:159:VAL:HG13	44:MK:160:ASP:N	2.36	0.41
44:MK:182:VAL:HG22	44:MK:182:VAL:O	2.21	0.41
44:MK:288:VAL:HA	44:MK:291:ILE:CD1	2.51	0.41
45:ML:76:VAL:HG13	45:ML:77:ARG:N	2.36	0.41
45:ML:186:THR:HG23	45:ML:187:LEU:N	2.36	0.41
45:ML:267:MET:HE1	45:ML:299:MET:HE2	2.02	0.41
45:ML:267:MET:HB2	45:ML:301:CYS:SG	2.61	0.41
44:MM:20:CYS:HA	44:MM:232:ALA:HB2	2.00	0.41
44:MM:91:GLN:HE22	44:MM:125:LEU:HD11	1.84	0.41
44:MM:362:VAL:HG11	44:MM:370:LYS:CB	2.48	0.41
45:MN:9:GLY:HA3	45:MN:66:MET:CE	2.51	0.41
45:MN:152:ILE:O	45:MN:155:VAL:HG22	2.20	0.41
45:MN:240:LEU:HD23	45:MN:240:LEU:C	2.41	0.41
45:MN:254:ALA:O	45:MN:258:ILE:HD13	2.21	0.41
45:MN:304:ASP:CG	45:MN:306:ARG:HG2	2.41	0.41
44:NA:257:THR:N	45:ND:397:TRP:HZ3	2.19	0.41
44:NA:274:PRO:HD2	44:NA:374:ALA:CA	2.49	0.41
45:NB:32:PRO:HB3	45:NB:81:PHE:CE1	2.56	0.41
45:NB:52:ASN:N	45:NB:60:VAL:O	2.39	0.41
45:NB:156:ARG:NH1	45:NB:164:MET:HE1	2.35	0.41
45:NB:324:LYS:O	45:NB:328:GLU:HG2	2.21	0.41
44:NC:51:THR:HG21	44:NC:243:ARG:CD	2.48	0.41
44:NC:200:VAL:CG1	44:NC:256:GLN:HB3	2.49	0.41
46:NC:501:GTP:O3B	46:NC:501:GTP:O1A	2.39	0.41
45:ND:47:ILE:CG1	45:ND:51:TYR:HD2	2.34	0.41
45:ND:113:ILE:HD11	45:ND:151:LEU:HA	2.01	0.41
45:ND:186:THR:HA	45:ND:415:MET:HE1	2.01	0.41
45:ND:293:MET:HG3	45:ND:367:PHE:HB2	2.02	0.41
45:ND:385:PHE:CE2	45:ND:412:GLU:HB2	2.38	0.41
44:NE:330:ALA:O	44:NE:333:ALA:HB3	2.20	0.41
45:NF:97:ALA:HA	45:NF:103:LYS:HD2	2.03	0.41
45:NF:113:ILE:HG12	45:NF:117:LEU:CD2	2.50	0.41
45:NF:127:CYS:SG	45:NF:130:LEU:N	2.94	0.41
45:NF:186:THR:HG23	45:NF:415:MET:HE3	2.03	0.41
45:NF:257:LEU:HD11	45:NF:314:SER:OG	2.20	0.41
45:NF:342:VAL:HG22	45:NF:343:GLU:N	2.36	0.41
45:NF:391:ARG:HA	45:NF:391:ARG:HD2	1.87	0.41
44:NG:292:THR:HG21	44:NG:331:SER:CB	2.49	0.41
44:NG:346:TRP:CZ3	45:NJ:393:ALA:CB	3.03	0.41
45:NH:47:ILE:HG13	45:NH:51:TYR:HD2	1.85	0.41
45:NH:120:VAL:HG13	45:NH:121:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:150:LEU:HD23	45:NH:154:LYS:HE3	2.02	0.41
45:NH:161:ASP:CG	45:NH:162:ARG:HH11	2.22	0.41
44:NI:71:GLU:OE1	44:NI:73:THR:HB	2.20	0.41
44:NI:84:ARG:HG3	44:NI:85:GLN:OE1	2.21	0.41
44:NI:106:GLY:C	44:NI:148:GLY:HA3	2.41	0.41
44:NI:319:TYR:HD2	44:NI:375:VAL:HG23	1.85	0.41
45:NJ:43:GLN:O	45:NJ:47:ILE:HD11	2.21	0.41
45:NJ:135:ILE:HD12	45:NJ:164:MET:HE1	2.03	0.41
44:NK:1:MET:SD	45:NN:70:PRO:HG2	2.61	0.41
44:NK:21:TRP:CD1	44:NK:87:PHE:HZ	2.38	0.41
44:NK:51:THR:O	44:NK:52:PHE:HD1	2.04	0.41
44:NK:119:LEU:HD11	44:NK:157:LEU:HD23	2.03	0.41
44:NK:269:LEU:HD11	44:NK:303:ALA:CB	2.51	0.41
44:NK:311:LYS:HG2	44:NK:312:TYR:N	2.36	0.41
44:NK:362:VAL:HG13	44:NK:362:VAL:O	2.20	0.41
45:NL:42:LEU:O	45:NL:45:GLU:HB2	2.20	0.41
45:NL:175:VAL:O	45:NL:175:VAL:HG23	2.21	0.41
45:NL:193:VAL:C	45:NL:264:HIS:HE2	2.21	0.41
44:NM:191:THR:HA	44:NM:194:LEU:CG	2.51	0.41
44:NM:276:ILE:CG1	44:NM:371:VAL:CA	2.97	0.41
44:NM:292:THR:CG2	44:NM:335:ILE:HD11	2.51	0.41
45:NN:12:CYS:CB	45:NN:138:SER:HG	2.34	0.41
45:NN:24:ILE:O	45:NN:27:GLU:N	2.46	0.41
45:NN:204:ASN:OD1	45:NN:205:GLU:N	2.54	0.41
44:OA:71:GLU:HG3	44:OA:98:ASP:OD2	2.21	0.41
44:OA:222:PRO:O	45:OB:322:SER:HB2	2.21	0.41
44:OA:387:VAL:HG23	44:OA:388:PHE:N	2.36	0.41
45:OB:102:ALA:O	45:OB:106:TYR:HB2	2.20	0.41
45:OB:244:GLY:HA2	45:OB:355:ASP:OD2	2.21	0.41
45:OB:248:SER:HA	45:OB:252:LYS:HD2	2.03	0.41
44:OC:8:HIS:NE2	44:OC:17:GLY:HA3	2.36	0.41
44:OC:205:ASP:CG	44:OC:304:LYS:H	2.20	0.41
44:OC:306:ASP:HB3	44:OC:309:HIS:HB2	2.03	0.41
45:OD:16:ILE:O	45:OD:20:PHE:HB3	2.21	0.41
45:OD:64:ILE:HA	45:OD:89:ASN:HD22	1.86	0.41
45:OD:81:PHE:CA	45:OD:84:LEU:HD13	2.51	0.41
45:OD:194:GLU:HG3	45:OD:195:ASN:OD1	2.21	0.41
45:OD:260:PHE:HB3	45:OD:261:PRO:HD2	2.02	0.41
44:OE:4:VAL:HG23	44:OE:134:GLY:C	2.40	0.41
44:OE:106:GLY:O	44:OE:149:LEU:HD12	2.20	0.41
44:OE:145:THR:HG22	46:OE:501:GTP:O3B	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OE:172:TYR:CD2	44:OE:173:PRO:HD2	2.55	0.41
44:OE:338:LYS:HD3	44:OE:340:THR:HG22	2.02	0.41
44:OE:397:LEU:HD23	45:OF:346:PRO:HD3	2.03	0.41
45:OF:46:ARG:HD3	45:OF:46:ARG:HA	1.83	0.41
45:OF:299:MET:HE3	45:OF:305:PRO:HG3	2.01	0.41
45:OF:318:ARG:HH11	45:OF:358:PRO:CG	2.34	0.41
44:OG:11:GLN:HE22	44:OG:74:VAL:HG13	1.82	0.41
44:OG:17:GLY:CA	44:OG:20:CYS:HB2	2.39	0.41
44:OG:99:ALA:CB	44:OG:145:THR:HB	2.50	0.41
44:OG:115:VAL:HG13	44:OG:116:ASP:N	2.36	0.41
44:OG:196:GLU:OE2	44:OG:197:HIS:NE2	2.53	0.41
44:OG:209:ILE:CG1	44:OG:302:MET:CE	2.98	0.41
44:OG:285:GLN:HB3	44:OG:290:GLU:OE2	2.21	0.41
44:OG:320:ARG:HH12	44:OG:360:PRO:HA	1.85	0.41
45:OH:164:MET:O	45:OH:197:ASP:HB2	2.21	0.41
44:OI:31:GLN:HB3	44:OI:33:ASP:OD1	2.21	0.41
44:OI:123:ARG:HA	44:OI:161:TYR:OH	2.21	0.41
44:OI:381:SER:O	44:OI:384:ILE:HG22	2.21	0.41
45:OJ:133:PHE:HB2	45:OJ:164:MET:HB2	2.02	0.41
45:OJ:185:ALA:O	45:OJ:189:VAL:HG23	2.20	0.41
45:OJ:185:ALA:HA	45:OJ:188:SER:OG	2.21	0.41
44:OK:14:ILE:CD1	44:OK:69:ASP:HB2	2.47	0.41
44:OK:74:VAL:HG23	44:OK:75:ILE:N	2.36	0.41
44:OK:88:HIS:CE1	44:OK:90:GLU:HB3	2.55	0.41
44:OK:189:LEU:HD11	44:OK:413:MET:HE2	2.02	0.41
44:OK:264:ARG:HG3	44:OK:264:ARG:NH1	2.35	0.41
45:OL:263:LEU:HD21	45:OL:422:TYR:HA	2.03	0.41
44:OM:179:THR:CG2	45:ON:351:SER:H	2.22	0.41
44:OM:183:GLU:CD	44:OM:184:PRO:HD3	2.41	0.41
44:OM:423:GLU:HA	44:OM:426:ALA:HB3	2.03	0.41
45:ON:1:MET:O	45:ON:2:ARG:HG2	2.21	0.41
45:ON:123:GLU:O	45:ON:126:GLY:N	2.54	0.41
45:ON:194:GLU:OE2	45:ON:414:ASN:ND2	2.54	0.41
45:ON:248:SER:HB2	45:ON:252:LYS:NZ	2.36	0.41
44:PA:102:ASN:ND2	44:PA:411:GLU:HG3	2.36	0.41
44:PA:156:ARG:O	44:PA:159:VAL:HG12	2.20	0.41
44:PA:188:ILE:HD13	44:PA:395:PHE:HD2	1.80	0.41
45:PB:210:ILE:HD11	45:PB:299:MET:O	2.21	0.41
45:PB:257:LEU:HB3	45:PB:266:PHE:CE2	2.56	0.41
45:PB:265:PHE:O	45:PB:374:ILE:HD13	2.21	0.41
45:PB:318:ARG:HA	45:PB:354:CYS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PB:321:MET:HE3	45:PB:363:MET:HG3	1.99	0.41
44:PC:70:LEU:CB	44:PC:98:ASP:HA	2.39	0.41
44:PC:119:LEU:CD2	44:PC:156:ARG:HD2	2.50	0.41
44:PC:172:TYR:HB2	44:PC:203:MET:SD	2.60	0.41
44:PC:238:LEU:HD11	44:PC:255:PHE:CZ	2.51	0.41
44:PC:290:GLU:O	44:PC:293:ASN:HB2	2.20	0.41
44:PC:315:CYS:HA	44:PC:379:SER:HA	2.03	0.41
45:PD:253:LEU:O	45:PD:257:LEU:HD13	2.20	0.41
44:PE:135:PHE:O	44:PE:167:LEU:HB2	2.21	0.41
44:PE:135:PHE:O	44:PE:136:LEU:HD23	2.20	0.41
44:PE:150:GLY:O	44:PE:154:LEU:HB2	2.20	0.41
44:PE:238:LEU:HD23	44:PE:238:LEU:O	2.21	0.41
44:PE:251:ASP:HB2	44:PE:254:GLU:CG	2.45	0.41
44:PE:276:ILE:CG1	44:PE:281:ALA:HA	2.50	0.41
44:PE:332:ILE:HD12	44:PE:332:ILE:H	1.86	0.41
45:PF:130:LEU:O	45:PF:162:ARG:NE	2.54	0.41
45:PF:161:ASP:OD1	45:PF:162:ARG:HG2	2.20	0.41
45:PF:326:VAL:O	45:PF:330:MET:HG2	2.20	0.41
44:PG:66:VAL:O	44:PG:66:VAL:HG13	2.21	0.41
44:PG:260:VAL:CG1	44:PG:266:HIS:HB3	2.48	0.41
45:PH:28:HIS:HA	45:PH:43:GLN:HG2	2.03	0.41
45:PH:86:ARG:HH21	45:QF:281:TYR:HB3	1.84	0.41
45:PH:321:MET:SD	45:PH:363:MET:HG3	2.61	0.41
44:PI:2:ARG:O	44:PI:2:ARG:HG2	2.21	0.41
44:PI:23:LEU:HD23	44:PI:236:SER:HB2	2.03	0.41
45:PJ:289:LEU:HD13	45:PJ:365:VAL:HG23	2.03	0.41
44:PK:66:VAL:HG21	44:PK:122:ILE:CD1	2.34	0.41
45:PL:1:MET:HE3	45:PL:129:CYS:HB3	2.03	0.41
45:PL:256:ASN:C	45:PL:257:LEU:HD12	2.41	0.41
44:PM:137:VAL:HG12	44:PM:167:LEU:O	2.21	0.41
44:PM:185:TYR:HD1	44:PM:395:PHE:CD1	2.39	0.41
44:PM:260:VAL:HG12	44:PM:262:TYR:O	2.20	0.41
44:PM:344:VAL:HG22	44:PM:345:ASP:N	2.35	0.41
44:PM:387:VAL:O	44:PM:391:LEU:HD13	2.21	0.41
45:PN:290:THR:HG23	45:PN:291:GLN:N	2.35	0.41
45:PN:403:MET:HE3	45:PN:404:ASP:C	2.39	0.41
45:PN:417:ASP:OD1	45:PN:421:GLU:HG3	2.21	0.41
45:PN:420:SER:O	45:PN:423:GLN:HG3	2.21	0.41
44:QA:145:THR:HG22	46:QA:501:GTP:PB	2.61	0.41
44:QA:333:ALA:HB1	45:QB:174:LYS:NZ	2.35	0.41
45:QB:20:PHE:CE1	45:QB:24:ILE:HG13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:28:HIS:O	45:QB:36:TYR:HE1	2.03	0.41
45:QB:83:GLN:OE1	45:QB:83:GLN:HA	2.21	0.41
45:QB:178:THR:HG22	45:QB:180:VAL:H	1.84	0.41
45:QB:312:THR:HG22	45:QB:370:ASN:CG	2.41	0.41
45:QB:345:ILE:CG2	45:QB:348:ASN:HD22	2.25	0.41
44:QC:19:ALA:HB1	44:QC:229:ARG:CZ	2.50	0.41
44:QC:421:ALA:O	44:QC:424:ASP:N	2.53	0.41
45:QD:20:PHE:O	45:QD:24:ILE:HB	2.21	0.41
45:QD:73:MET:SD	45:QD:92:PHE:HB3	2.61	0.41
45:QD:164:MET:CG	45:QD:197:ASP:H	2.33	0.41
44:QE:23:LEU:O	44:QE:27:GLU:HB2	2.20	0.41
44:QE:74:VAL:HG23	44:QE:75:ILE:N	2.36	0.41
44:QE:130:THR:HG23	44:QE:131:GLY:N	2.35	0.41
44:QE:141:VAL:CG1	44:QE:172:TYR:HD1	2.30	0.41
44:QE:169:PHE:HB3	44:QE:204:LEU:HD11	2.03	0.41
44:QE:289:ALA:O	44:QE:292:THR:HG22	2.20	0.41
44:QE:325:PRO:O	44:QE:328:VAL:HB	2.21	0.41
45:QF:18:ALA:O	45:QF:22:GLU:HG3	2.20	0.41
45:QF:60:VAL:O	45:QF:60:VAL:HG23	2.20	0.41
45:QF:182:PRO:HG3	45:QF:384:GLN:HB3	2.03	0.41
44:QG:69:ASP:OD1	44:QG:70:LEU:N	2.53	0.41
44:QG:207:GLU:CD	44:QG:304:LYS:HE3	2.40	0.41
44:QG:278:ALA:H	44:QG:369:ALA:CB	2.32	0.41
45:QH:164:MET:CB	45:QH:197:ASP:H	2.30	0.41
45:QH:187:LEU:HD21	45:QH:408:PHE:CE1	2.56	0.41
45:QH:245:GLN:HG3	45:QH:353:ILE:HG21	2.03	0.41
45:QH:247:ASN:HD21	44:QI:74:VAL:HG13	1.84	0.41
45:QH:258:ILE:HD12	45:QH:264:HIS:HA	2.03	0.41
45:QH:304:ASP:OD1	45:QH:306:ARG:HG2	2.21	0.41
45:QH:309:ARG:HA	45:QH:340:TYR:O	2.21	0.41
45:QH:324:LYS:HB2	44:QI:210:TYR:CD1	2.56	0.41
45:QH:340:TYR:C	45:QH:341:PHE:HD1	2.25	0.41
44:QI:1:MET:O	44:QI:131:GLY:HA3	2.21	0.41
45:QJ:25:SER:HB3	45:QJ:30:ILE:HG13	2.03	0.41
45:QJ:110:ALA:O	45:QJ:113:ILE:HG22	2.21	0.41
45:QJ:133:PHE:O	45:QJ:165:GLU:HB2	2.21	0.41
45:QJ:180:VAL:HG22	45:QJ:180:VAL:O	2.20	0.41
45:QJ:290:THR:HG23	45:QJ:291:GLN:N	2.36	0.41
44:QK:34:GLY:O	44:QK:60:LYS:HA	2.21	0.41
44:QK:55:GLU:HG3	44:QK:57:GLY:H	1.85	0.41
44:QK:77:GLU:O	44:QK:81:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:131:GLY:O	44:QK:133:GLN:NE2	2.51	0.41
44:QK:168:GLY:O	44:QK:201:ALA:HA	2.21	0.41
44:QK:248:LEU:CD2	44:QK:353:VAL:HG13	2.48	0.41
45:QL:1:MET:C	45:QL:2:ARG:HG2	2.42	0.41
45:QL:42:LEU:HG	45:QL:45:GLU:OE2	2.21	0.41
45:QL:238:CYS:HB2	45:QL:318:ARG:HD2	2.02	0.41
45:QL:258:ILE:HG13	45:QL:266:PHE:CZ	2.54	0.41
45:QL:324:LYS:HG3	44:QM:210:TYR:CD2	2.56	0.41
44:QM:35:GLN:HE21	44:QM:60:LYS:HB3	1.85	0.41
44:QM:325:PRO:HA	44:QM:328:VAL:CG2	2.50	0.41
44:QM:346:TRP:O	44:QM:346:TRP:CE3	2.73	0.41
45:QN:318:ARG:HH11	45:QN:358:PRO:HG3	1.85	0.41
45:QN:380:ARG:O	45:QN:384:GLN:HG3	2.20	0.41
44:RA:177:VAL:CG1	44:RA:207:GLU:HB2	2.50	0.41
44:RA:182:VAL:HG22	44:RA:408:TYR:HH	1.85	0.41
44:RA:306:ASP:HB3	44:RA:309:HIS:ND1	2.36	0.41
45:RB:54:ALA:CB	45:RB:58:ARG:HG2	2.40	0.41
45:RB:117:LEU:HD21	45:RB:154:LYS:HG2	2.03	0.41
45:RB:325:GLU:HA	45:RB:328:GLU:HG2	2.03	0.41
44:RC:1:MET:CE	45:RD:94:GLN:HG2	2.49	0.41
44:RC:22:GLU:O	44:RC:26:LEU:N	2.46	0.41
44:RC:288:VAL:N	44:RC:373:ARG:CD	2.84	0.41
45:RD:130:LEU:HD12	45:RD:130:LEU:HA	1.87	0.41
45:RD:285:THR:O	45:RD:288:GLU:HB2	2.20	0.41
44:RE:28:HIS:CE1	44:RE:243:ARG:HD2	2.56	0.41
44:RE:251:ASP:HB2	44:RE:253:THR:HG22	2.03	0.41
44:RE:262:TYR:CZ	45:RF:393:ALA:HA	2.56	0.41
44:RE:351:PHE:HB2	45:RF:176:SER:OG	2.21	0.41
44:RG:145:THR:HG22	46:RG:501:GTP:O3B	2.20	0.41
44:RG:384:ILE:HG13	44:RG:387:VAL:HG22	2.03	0.41
45:RH:36:TYR:CE2	45:RH:44:LEU:HD11	2.56	0.41
45:RH:49:VAL:HG13	45:RH:50:TYR:N	2.35	0.41
45:RH:83:GLN:OE1	45:RH:83:GLN:HA	2.20	0.41
45:RH:247:ASN:OD1	45:RH:247:ASN:O	2.39	0.41
45:RH:309:ARG:H	45:RH:372:THR:CG2	2.33	0.41
45:RH:425:TYR:HA	45:RH:428:ALA:HB3	2.03	0.41
44:RI:139:ASN:OD1	44:RI:139:ASN:N	2.54	0.41
44:RI:183:GLU:N	44:RI:184:PRO:CD	2.84	0.41
44:RI:183:GLU:HG2	44:RI:184:PRO:N	2.35	0.41
44:RI:238:LEU:HD11	44:RI:255:PHE:CZ	2.56	0.41
45:RJ:45:GLU:C	45:RJ:46:ARG:HD2	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RJ:347:ASN:ND2	44:RK:178:SER:HB3	2.36	0.41
44:RK:2:ARG:HD2	44:RK:242:LEU:CA	2.51	0.41
44:RK:313:MET:HG3	44:RK:346:TRP:HH2	1.83	0.41
44:RK:431:ASP:HA	44:RK:434:GLU:HB3	2.03	0.41
45:RL:35:THR:HB	45:RL:37:HIS:HE1	1.86	0.41
45:RL:58:ARG:O	45:RL:59:TYR:HD1	2.04	0.41
45:RL:86:ARG:HG3	45:RL:89:ASN:H	1.84	0.41
45:RL:119:VAL:HA	45:RL:122:LYS:HB2	2.03	0.41
45:RL:135:ILE:CG1	45:RL:152:ILE:HD11	2.46	0.41
45:RL:323:THR:O	45:RL:326:VAL:HB	2.21	0.41
44:RM:5:ILE:HG22	44:RM:7:ILE:HD11	2.03	0.41
44:RM:203:MET:HE2	44:RM:384:ILE:CG1	2.51	0.41
44:RM:275:ILE:HA	44:RM:368:LEU:HD11	2.03	0.41
44:RM:343:PHE:CD2	44:RM:350:GLY:HA3	2.56	0.41
45:RN:119:VAL:HG23	45:RN:122:LYS:CE	2.50	0.41
45:RN:278:SER:HA	45:RN:281:TYR:CG	2.55	0.41
45:RN:290:THR:O	45:RN:293:MET:HG2	2.21	0.41
44:SA:223:THR:HG23	44:SA:225:THR:H	1.86	0.41
45:SB:4:ILE:HB	45:SB:132:GLY:O	2.20	0.41
45:SB:141:GLY:HA3	48:SB:501:GDP:PB	2.60	0.41
45:SB:163:ILE:CD1	45:SB:250:LEU:HB2	2.51	0.41
45:SB:317:PHE:CE1	45:SB:365:VAL:HG11	2.55	0.41
44:SC:244:PHE:CD2	44:SC:358:GLN:HG2	2.55	0.41
45:SD:236:VAL:HG11	45:SD:250:LEU:HD11	2.01	0.41
45:SD:252:LYS:HA	44:SE:100:ALA:HB1	2.01	0.41
44:SE:2:ARG:NE	44:SE:242:LEU:O	2.53	0.41
44:SE:91:GLN:HB2	44:SE:121:ARG:HD2	2.03	0.41
44:SE:256:GLN:NE2	45:SF:397:TRP:CH2	2.89	0.41
45:SF:76:VAL:O	45:SF:76:VAL:CG1	2.68	0.41
45:SF:224:ASP:O	45:SF:227:HIS:N	2.53	0.41
45:SF:272:PRO:CB	45:SF:292:GLN:HE22	2.30	0.41
45:SF:330:MET:SD	45:SF:349:ILE:HB	2.61	0.41
44:SG:256:GLN:O	45:SH:397:TRP:HZ2	2.04	0.41
45:SH:31:ASP:OD2	45:SH:35:THR:HB	2.21	0.41
45:SH:86:ARG:HG3	45:SH:86:ARG:NH1	2.36	0.41
45:SJ:54:ALA:HA	45:TJ:283:ALA:HB2	2.03	0.41
45:SJ:86:ARG:HH22	45:TJ:281:TYR:HD2	1.62	0.41
45:SJ:134:GLN:O	45:SJ:134:GLN:HG3	2.21	0.41
45:SJ:145:SER:O	45:SJ:149:THR:HG22	2.20	0.41
44:SK:62:VAL:O	44:SK:62:VAL:HG13	2.21	0.41
44:SK:161:TYR:HB3	44:SK:164:LYS:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SK:191:THR:O	44:SK:194:LEU:HG	2.21	0.41
44:SK:217:LEU:HD13	44:SK:367:ASP:CB	2.51	0.41
44:SK:339:ARG:HH21	44:SK:342:GLN:CB	2.32	0.41
45:SL:22:GLU:HG2	45:SL:81:PHE:CG	2.55	0.41
45:SL:113:ILE:HD11	45:SL:151:LEU:CD1	2.41	0.41
45:SL:380:ARG:HD2	45:SL:380:ARG:C	2.41	0.41
44:SM:9:VAL:HA	44:SM:68:LEU:O	2.20	0.41
44:SM:11:GLN:HG2	44:SM:12:GLY:N	2.35	0.41
44:SM:224:TYR:CD1	44:SM:227:LEU:HD12	2.56	0.41
44:SM:356:ASN:OD1	44:SM:357:TYR:N	2.52	0.41
45:SN:16:ILE:HD11	48:SN:501:GDP:N2	2.35	0.41
44:TA:13:GLY:O	44:TA:17:GLY:N	2.49	0.41
44:TA:284:GLU:HG3	44:TA:286:LEU:CD2	2.37	0.41
45:TB:105:HIS:CE1	45:TB:150:LEU:HD12	2.56	0.41
45:TB:137:HIS:O	45:TB:168:SER:HA	2.21	0.41
45:TB:271:ALA:HB1	45:TB:272:PRO:HA	2.02	0.41
44:TC:3:GLU:HB2	44:TC:132:LEU:HA	2.03	0.41
44:TC:223:THR:HG22	44:TC:226:ASN:OD1	2.20	0.41
44:TC:256:GLN:HG2	45:TD:397:TRP:HE1	1.85	0.41
45:TD:99:ASN:HA	45:TD:142:GLY:H	1.86	0.41
45:TD:105:HIS:NE2	45:TD:150:LEU:HD12	2.36	0.41
45:TD:252:LYS:HE3	44:TE:101:ASN:ND2	2.27	0.41
45:TD:276:ARG:HA	45:TD:276:ARG:HD3	1.91	0.41
44:TE:107:HIS:ND1	44:TE:108:TYR:CE1	2.89	0.41
45:TF:113:ILE:HD11	45:TF:151:LEU:CA	2.51	0.41
45:TF:143:THR:HG23	45:TF:144:GLY:N	2.36	0.41
45:TF:175:VAL:O	45:TF:175:VAL:HG23	2.21	0.41
45:TF:236:VAL:HG12	45:TF:250:LEU:HD22	2.03	0.41
45:TF:304:ASP:OD1	45:TF:305:PRO:HD2	2.21	0.41
45:TF:392:LYS:HG3	45:TF:395:LEU:HD22	2.03	0.41
44:TG:17:GLY:O	44:TG:20:CYS:N	2.47	0.41
44:TG:56:THR:HG23	44:TG:58:ALA:N	2.32	0.41
44:TG:217:LEU:CD2	44:TG:275:ILE:HG22	2.50	0.41
45:TH:20:PHE:CZ	45:TH:24:ILE:HG13	2.56	0.41
45:TH:28:HIS:C	45:TH:43:GLN:HE21	2.24	0.41
45:TH:36:TYR:CD2	45:TH:44:LEU:HD11	2.55	0.41
45:TH:101:TRP:CE3	45:TH:187:LEU:HD13	2.55	0.41
45:TH:313:ALA:HB3	45:TH:349:ILE:HA	2.03	0.41
44:TI:99:ALA:CA	44:TI:105:ARG:HD3	2.43	0.41
44:TI:182:VAL:C	44:TI:184:PRO:HD2	2.40	0.41
45:TJ:2:ARG:N	45:TJ:129:CYS:HB3	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TJ:149:THR:HG23	45:TJ:150:LEU:N	2.36	0.41
45:TJ:189:VAL:O	45:TJ:189:VAL:HG22	2.20	0.41
44:TK:194:LEU:O	44:TK:198:THR:N	2.54	0.41
44:TK:229:ARG:NH1	44:TK:366:GLY:HA2	2.27	0.41
44:TK:439:THR:HG21	45:TL:390:ARG:CD	2.45	0.41
45:TL:12:CYS:HB2	48:TL:501:GDP:O4'	2.21	0.41
45:TL:25:SER:O	45:TL:29:GLY:N	2.54	0.41
45:TL:151:LEU:HD23	45:TL:151:LEU:O	2.20	0.41
45:TL:156:ARG:NH1	45:TL:160:PRO:HA	2.36	0.41
44:TM:171:ILE:HA	44:TM:204:LEU:HB2	2.02	0.41
44:TM:246:GLY:N	44:TM:249:ASN:OD1	2.53	0.41
45:TN:47:ILE:HD13	45:TN:59:TYR:CE2	2.56	0.41
45:TN:196:ALA:HB3	45:TN:264:HIS:CE1	2.55	0.41
45:TN:207:LEU:HG	45:TN:300:MET:CE	2.50	0.41
45:TN:224:ASP:HA	45:TN:227:HIS:CB	2.50	0.41
45:TN:314:SER:HA	45:TN:350:LYS:HB3	2.03	0.41
44:UA:161:TYR:HB3	44:UA:164:LYS:HB2	2.02	0.41
44:UA:270:SER:HB3	44:UA:378:ILE:HA	2.02	0.41
45:UB:69:GLU:HA	45:UB:70:PRO:HD3	1.93	0.41
45:UB:223:GLY:O	45:UB:227:HIS:N	2.43	0.41
45:UB:378:PHE:CB	45:UB:419:VAL:HG22	2.51	0.41
44:UC:339:ARG:O	44:UC:342:GLN:NE2	2.51	0.41
45:UD:113:ILE:HD13	45:UD:150:LEU:CD1	2.45	0.41
45:UD:151:LEU:O	45:UD:151:LEU:HD23	2.20	0.41
45:UD:282:ARG:HH21	45:UD:291:GLN:HE21	1.69	0.41
45:UD:396:HIS:HA	45:UD:399:THR:HG1	1.86	0.41
44:UE:14:ILE:HG21	44:UE:75:ILE:HD13	2.03	0.41
44:UE:247:ALA:HB2	44:UE:357:TYR:OH	2.20	0.41
44:UE:272:TYR:CD1	44:UE:376:CYS:HB2	2.42	0.41
44:UE:408:TYR:HB3	44:UE:413:MET:HE1	2.02	0.41
45:UF:69:GLU:HA	45:UF:70:PRO:HD3	1.89	0.41
45:UF:166:THR:N	45:UF:198:GLU:O	2.52	0.41
45:UF:181:GLU:N	45:UF:182:PRO:CD	2.84	0.41
45:UF:252:LYS:HA	44:UG:100:ALA:HB1	2.01	0.41
44:UG:9:VAL:HG12	44:UG:139:ASN:HB3	2.03	0.41
44:UG:273:ALA:O	44:UG:375:VAL:O	2.39	0.41
44:UG:332:ILE:O	44:UG:336:LYS:HG3	2.20	0.41
45:UH:21:TRP:CE3	45:UH:61:PRO:HB3	2.56	0.41
45:UH:113:ILE:O	45:UH:116:VAL:HG12	2.21	0.41
45:UH:276:ARG:HA	45:UH:276:ARG:HD3	1.96	0.41
45:UH:324:LYS:HE2	44:UI:210:TYR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UI:169:PHE:HE1	44:UI:202:VAL:HG21	1.85	0.41
44:UI:256:GLN:O	44:UI:260:VAL:HB	2.21	0.41
44:UI:348:PRO:HB2	45:UJ:384:GLN:HG2	2.03	0.41
45:UJ:49:VAL:HG23	45:UJ:50:TYR:N	2.36	0.41
45:UJ:171:PRO:O	45:UJ:173:PRO:HD3	2.21	0.41
45:UJ:325:GLU:HA	45:UJ:328:GLU:CD	2.41	0.41
44:UK:2:ARG:HD2	44:UK:242:LEU:O	2.20	0.41
44:UK:33:ASP:HB3	44:UK:85:GLN:HG2	2.03	0.41
44:UK:205:ASP:CG	44:UK:303:ALA:HA	2.42	0.41
44:UK:298:PRO:HA	44:UK:301:MET:CE	2.49	0.41
44:UK:311:LYS:HD2	44:UK:342:GLN:CG	2.42	0.41
44:UK:324:VAL:HG11	44:UK:326:LYS:HG2	1.98	0.41
45:UL:20:PHE:HE1	45:UL:234:SER:H	1.69	0.41
45:UL:86:ARG:NE	45:UL:86:ARG:CA	2.84	0.41
45:UL:330:MET:HE1	45:UL:349:ILE:C	2.41	0.41
45:UL:388:MET:HB3	45:UL:393:ALA:HB3	2.02	0.41
44:UM:16:VAL:HG23	44:UM:228:ASN:O	2.21	0.41
44:UM:102:ASN:O	44:UM:105:ARG:N	2.53	0.41
44:UM:102:ASN:HA	44:UM:408:TYR:CE1	2.56	0.41
44:UM:167:LEU:HD21	44:UM:255:PHE:HD2	1.86	0.41
44:UM:202:VAL:HG12	44:UM:203:MET:N	2.36	0.41
44:UM:209:ILE:HA	44:UM:212:ILE:HB	2.03	0.41
44:UM:217:LEU:CD1	44:UM:275:ILE:HG22	2.51	0.41
44:UM:291:ILE:HG23	44:UM:373:ARG:HH22	1.86	0.41
45:UN:182:PRO:HG2	45:UN:388:MET:HE1	1.97	0.41
45:UN:372:THR:HG22	45:UN:422:TYR:HE1	1.85	0.41
44:VA:7:ILE:HG23	44:VA:66:VAL:CG1	2.51	0.41
44:VA:98:ASP:OD2	45:VB:252:LYS:HE3	2.21	0.41
45:VB:77:ARG:HG2	45:VB:78:ALA:N	2.36	0.41
45:VB:135:ILE:HG12	45:VB:152:ILE:CD1	2.50	0.41
45:VB:201:VAL:HG22	45:VB:266:PHE:O	2.21	0.41
45:VB:315:ALA:HB3	45:VB:351:SER:HA	2.02	0.41
45:VB:382:ALA:HB2	45:VB:415:MET:HE1	2.03	0.41
44:VC:274:PRO:HG2	44:VC:291:ILE:HB	2.03	0.41
44:VC:356:ASN:CG	44:VC:357:TYR:H	2.23	0.41
44:VC:358:GLN:CG	44:VC:359:PRO:HD2	2.50	0.41
45:VD:2:ARG:HE	45:VD:240:LEU:HG	1.85	0.41
45:VD:14:ASN:ND2	45:VD:72:THR:HG21	2.36	0.41
45:VD:44:LEU:HD23	45:VD:47:ILE:CD1	2.51	0.41
45:VD:69:GLU:HA	45:VD:70:PRO:HD3	1.89	0.41
45:VD:203:ASP:OD2	45:VD:205:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VD:318:ARG:CD	45:VD:358:PRO:HG3	2.50	0.41
44:VE:169:PHE:HA	44:VE:202:VAL:HG12	2.02	0.41
45:VF:70:PRO:HD3	45:VF:93:GLY:O	2.21	0.41
45:VF:186:THR:OG1	45:VF:381:VAL:HG12	2.21	0.41
45:VF:282:ARG:CG	45:VF:283:ALA:H	2.32	0.41
45:VF:426:GLN:O	45:VF:426:GLN:NE2	2.54	0.41
44:VG:55:GLU:CD	44:VG:57:GLY:H	2.24	0.41
44:VG:96:LYS:HB3	45:VH:1:MET:CE	2.43	0.41
45:VH:44:LEU:HD23	45:VH:47:ILE:HD12	2.02	0.41
45:VH:181:GLU:N	45:VH:182:PRO:CD	2.83	0.41
44:VI:178:SER:HB2	45:VJ:347:ASN:HD22	1.84	0.41
44:VI:202:VAL:CG1	44:VI:270:SER:HB3	2.51	0.41
44:VI:247:ALA:HB2	44:VI:357:TYR:OH	2.20	0.41
44:VI:284:GLU:O	44:VI:286:LEU:HD23	2.20	0.41
44:VI:301:MET:SD	44:VI:307:PRO:HG3	2.61	0.41
45:VJ:221:THR:CG2	45:VJ:224:ASP:H	2.25	0.41
45:VJ:342:VAL:HG12	45:VJ:345:ILE:CG2	2.32	0.41
45:VJ:342:VAL:HG11	45:VJ:345:ILE:HG22	1.97	0.41
44:VK:22:GLU:O	44:VK:26:LEU:N	2.33	0.41
44:VK:102:ASN:ND2	44:VK:105:ARG:HG3	2.36	0.41
44:VK:291:ILE:HG13	44:VK:292:THR:H	1.84	0.41
45:VL:186:THR:OG1	45:VL:385:PHE:HB2	2.21	0.41
45:VL:253:LEU:HA	45:VL:350:LYS:HE2	2.02	0.41
45:VL:295:ASP:OD1	45:VL:296:ALA:N	2.54	0.41
45:VL:323:THR:O	45:VL:324:LYS:C	2.59	0.41
44:VM:141:VAL:HG22	44:VM:187:SER:CB	2.50	0.41
45:VN:2:ARG:HH21	45:VN:131:GLN:NE2	2.18	0.41
45:VN:47:ILE:O	45:VN:51:TYR:HB2	2.21	0.41
45:VN:321:MET:N	45:VN:321:MET:SD	2.94	0.41
44:WA:174:SER:CB	44:WA:207:GLU:HB2	2.50	0.41
44:WA:177:VAL:HG13	45:WB:327:ASP:HB3	2.03	0.41
44:WA:207:GLU:O	44:WA:210:TYR:N	2.54	0.41
45:WB:311:LEU:O	45:WB:345:ILE:HG21	2.21	0.41
44:WC:107:HIS:ND1	44:WC:108:TYR:CE1	2.88	0.41
44:WC:200:VAL:HG13	44:WC:268:MET:SD	2.61	0.41
44:WC:362:VAL:HG13	44:WC:362:VAL:O	2.21	0.41
45:WD:7:ILE:HG21	45:WD:151:LEU:CD1	2.51	0.41
45:WD:257:LEU:O	45:WD:258:ILE:HG13	2.21	0.41
45:WD:274:THR:H	45:WD:282:ARG:HH22	1.68	0.41
45:WD:406:MET:O	45:WD:410:GLU:HG3	2.21	0.41
44:WE:21:TRP:HZ3	44:WE:53:PHE:CZ	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WE:118:CYS:SG	44:WE:153:LEU:HD21	2.61	0.41
44:WE:166:LYS:C	44:WE:167:LEU:HD12	2.40	0.41
44:WE:305:CYS:SG	44:WE:386:GLU:HB3	2.61	0.41
44:WE:372:MET:HA	44:WE:372:MET:CE	2.51	0.41
45:WF:171:PRO:CG	45:WF:181:GLU:HB3	2.50	0.41
45:WF:178:THR:HG23	45:WF:181:GLU:N	2.36	0.41
44:WG:303:ALA:O	44:WG:305:CYS:N	2.47	0.41
45:WH:386:THR:HG22	45:WH:389:PHE:H	1.85	0.41
44:WI:200:VAL:HG12	44:WI:201:ALA:N	2.35	0.41
45:WJ:40:SER:O	45:WJ:43:GLN:HB2	2.21	0.41
45:WJ:104:GLY:HA2	45:WJ:147:MET:CE	2.50	0.41
44:WK:16:VAL:HG13	44:WK:17:GLY:N	2.35	0.41
44:WK:55:GLU:CD	44:WK:57:GLY:H	2.24	0.41
44:WK:73:THR:HA	45:WL:46:ARG:NH2	2.35	0.41
44:WK:185:TYR:HB3	44:WK:408:TYR:CE2	2.54	0.41
44:WK:205:ASP:OD1	44:WK:205:ASP:N	2.54	0.41
44:WK:287:SER:N	44:WK:290:GLU:HG2	2.35	0.41
44:WK:306:ASP:HB3	44:WK:309:HIS:ND1	2.36	0.41
44:WK:311:LYS:CA	44:WK:342:GLN:HE22	2.33	0.41
44:WK:312:TYR:HB3	44:WK:343:PHE:CD1	2.56	0.41
45:WL:203:ASP:OD2	45:WL:301:CYS:HA	2.21	0.41
44:WM:222:PRO:HG2	45:WN:324:LYS:CB	2.50	0.41
45:WN:258:ILE:HG13	45:WN:266:PHE:HZ	1.85	0.41
45:WN:271:ALA:HB1	45:WN:272:PRO:HA	2.02	0.41
45:WN:272:PRO:HD2	45:WN:361:LEU:HD13	2.02	0.41
45:WN:290:THR:HG23	45:WN:291:GLN:N	2.35	0.41
45:WN:398:TYR:CB	45:WN:408:PHE:HZ	2.34	0.41
2:0A:143:HIS:CB	44:AA:32:PRO:HG3	2.51	0.41
7:0F:140:VAL:HG13	44:FC:89:PRO:HB3	2.03	0.41
8:0G:49:TYR:HD1	44:JK:22:GLU:OE1	2.04	0.41
10:0N:162:CYS:N	45:KN:276:ARG:HE	2.08	0.41
19:1I:40:ARG:HB2	45:JD:219:THR:OG1	2.20	0.41
20:1J:140:PHE:CD1	44:IE:282:TYR:CE1	3.08	0.41
20:1J:350:PRO:CG	45:IN:361:LEU:HD21	2.51	0.41
21:1K:212:ARG:CD	44:GA:372:MET:HB2	2.50	0.41
26:1R:70:THR:CG2	45:MD:320:ARG:HG2	2.50	0.41
26:1R:79:ASN:O	44:MC:31:GLN:HG2	2.21	0.41
26:1R:151:PHE:O	45:AF:78:ALA:HA	2.20	0.41
12:1S:311:PRO:O	44:AE:402:ARG:HD2	2.21	0.41
2:2A:67:PRO:HB3	45:MJ:53:GLU:CG	2.49	0.41
28:3C:3:LEU:HD12	45:LB:39:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:3L:176:ARG:HD3	44:CA:366:GLY:O	2.21	0.41
35:4R:107:PRO:HD3	45:BH:358:PRO:O	2.21	0.41
35:4R:175:GLU:CD	45:AH:32:PRO:HD2	2.40	0.41
35:4R:355:TYR:CG	44:CE:40:LYS:HE2	2.56	0.41
35:4R:417:TYR:O	44:EE:370:LYS:NZ	2.15	0.41
38:5G:141:CYS:CA	38:5G:144:LEU:HG	2.50	0.41
38:5G:198:PHE:CA	44:LK:393:HIS:CE1	2.96	0.41
38:5H:24:ASP:HB3	38:5H:30:PRO:HD3	2.03	0.41
38:5H:26:GLY:HA2	45:OL:320:ARG:NH2	2.36	0.41
38:5H:68:PRO:HA	45:NN:37:HIS:CE1	2.56	0.41
39:5I:91:SER:HB2	44:JA:430:LYS:CE	2.51	0.41
35:5R:146:LYS:HZ1	45:AL:75:SER:HG	1.53	0.41
35:5R:315:MET:CE	45:CJ:227:HIS:NE2	2.83	0.41
40:6F:42:ASN:HD21	40:6F:59:ASN:HB2	1.86	0.41
40:6F:54:TYR:O	40:6F:55:THR:HG23	2.21	0.41
40:6F:68:TRP:CE3	45:JF:215:LEU:HD22	2.56	0.41
41:6G:272:LYS:HA	41:6G:272:LYS:HD3	1.98	0.41
11:6Q:69:LEU:HD21	11:6Q:71:ILE:HD11	2.03	0.41
35:6R:27:LYS:N	44:LK:243:ARG:O	2.51	0.41
35:7R:9:VAL:HG21	35:7R:15:HIS:CE1	2.56	0.41
35:7R:183:CYS:HB2	35:7R:187:THR:CB	2.50	0.41
35:7R:303:PHE:O	45:CB:78:ALA:HA	2.20	0.41
35:7R:316:THR:OG1	35:7R:318:TYR:O	2.25	0.41
44:AA:24:PHE:HE2	44:AA:52:PHE:CE2	2.39	0.41
45:AB:103:LYS:O	45:AB:108:GLU:HB2	2.21	0.41
45:AB:137:HIS:CD2	45:AB:139:LEU:HD12	2.56	0.41
45:AB:175:VAL:O	45:AB:175:VAL:HG23	2.20	0.41
44:AC:139:ASN:O	44:AC:139:ASN:OD1	2.38	0.41
44:AC:250:VAL:HG12	44:AC:318:MET:HE1	2.01	0.41
44:AC:319:TYR:HB2	44:AC:354:GLY:O	2.21	0.41
45:AD:33:THR:O	45:AD:58:ARG:NE	2.52	0.41
45:AD:301:CYS:HB3	45:AD:377:MET:HE3	2.00	0.41
44:AE:233:GLN:HB3	44:AE:272:TYR:CE2	2.55	0.41
45:AF:6:HIS:NE2	45:AF:8:GLN:OE1	2.54	0.41
44:AG:169:PHE:CE2	44:AG:235:ILE:HD13	2.56	0.41
45:AH:7:ILE:CD1	45:AH:151:LEU:HD23	2.51	0.41
45:AH:40:SER:O	45:AH:43:GLN:HB2	2.21	0.41
45:AH:334:GLN:HG3	45:AH:341:PHE:HD2	1.86	0.41
44:AI:89:PRO:HD3	44:BI:283:HIS:HD2	1.83	0.41
45:AJ:248:SER:CB	45:AJ:252:LYS:HD2	2.51	0.41
44:AK:60:LYS:HD3	44:BK:283:HIS:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:AK:268:MET:HG3	44:AK:378:ILE:HG22	2.02	0.41
44:AK:293:ASN:O	44:AK:297:GLU:HG3	2.21	0.41
45:AL:44:LEU:HD23	45:AL:44:LEU:HA	1.81	0.41
44:AM:288:VAL:HG13	44:AM:289:ALA:N	2.35	0.41
44:AM:298:PRO:HB3	44:AM:307:PRO:CD	2.50	0.41
45:AN:68:LEU:CD1	45:AN:147:MET:HE1	2.43	0.41
45:AN:163:ILE:O	45:AN:164:MET:HE2	2.21	0.41
45:AN:390:ARG:HD2	45:AN:391:ARG:CD	2.51	0.41
44:BA:156:ARG:HA	44:BA:159:VAL:HG12	2.03	0.41
44:BA:229:ARG:CB	44:BA:229:ARG:HH11	2.34	0.41
44:BA:234:VAL:HG13	44:BA:376:CYS:SG	2.61	0.41
44:BA:258:ASN:HD22	44:BA:352:LYS:HD3	1.84	0.41
45:BB:268:ILE:HG13	45:BB:300:MET:HG3	2.02	0.41
44:BC:320:ARG:HG3	44:BC:374:ALA:HB3	2.03	0.41
45:BD:170:VAL:HG13	45:BD:203:ASP:OD1	2.20	0.41
45:BD:374:ILE:HD11	45:BD:422:TYR:CD2	2.56	0.41
45:BD:395:LEU:HG	45:BD:395:LEU:O	2.21	0.41
44:BE:403:ALA:O	44:BE:404:PHE:HB2	2.21	0.41
44:BG:51:THR:CG2	44:BG:243:ARG:HB3	2.49	0.41
44:BG:68:LEU:CD2	44:BG:118:CYS:HB2	2.47	0.41
44:BG:277:SER:O	44:BG:281:ALA:N	2.47	0.41
45:BH:69:GLU:OE2	45:BH:72:THR:N	2.53	0.41
45:BH:337:ASN:HB3	45:BH:340:TYR:HD2	1.86	0.41
44:BI:67:PHE:O	44:BI:68:LEU:HD22	2.20	0.41
44:BI:387:VAL:HG12	44:BI:390:ARG:NH1	2.35	0.41
45:BJ:90:PHE:HB3	45:BJ:92:PHE:CE2	2.53	0.41
44:BK:91:GLN:HE21	44:BK:125:LEU:HD11	1.85	0.41
44:BK:238:LEU:HG	44:BK:318:MET:HE2	2.00	0.41
44:BK:320:ARG:NE	44:BK:360:PRO:HG3	2.35	0.41
44:BK:407:TRP:CH2	45:BL:254:ALA:HB1	2.56	0.41
45:BL:22:GLU:HA	45:BL:81:PHE:CD2	2.55	0.41
45:BL:105:HIS:HD2	45:BL:146:GLY:O	2.03	0.41
45:BL:173:PRO:CG	45:BL:380:ARG:HH11	2.27	0.41
45:BL:375:GLN:OE1	45:BL:423:GLN:HB3	2.21	0.41
44:BM:3:GLU:OE1	44:BM:3:GLU:N	2.54	0.41
45:BN:24:ILE:HD12	45:BN:24:ILE:N	2.37	0.41
45:BN:150:LEU:HD23	45:BN:150:LEU:O	2.21	0.41
44:CA:11:GLN:O	44:CA:15:GLN:HG3	2.20	0.41
44:CA:182:VAL:CG2	44:CA:185:TYR:CD2	3.04	0.41
44:CA:296:PHE:HD2	44:CA:335:ILE:HD12	1.86	0.41
45:CB:353:ILE:HD12	45:CB:353:ILE:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CC:344:VAL:HG21	44:CC:346:TRP:NE1	2.35	0.41
45:CD:18:ALA:O	45:CD:22:GLU:HG3	2.21	0.41
45:CD:130:LEU:HD21	45:CD:133:PHE:CE1	2.56	0.41
45:CD:183:TYR:O	45:CD:186:THR:OG1	2.26	0.41
45:CD:236:VAL:HG13	45:CD:237:THR:N	2.36	0.41
45:CD:392:LYS:O	45:CD:395:LEU:HB3	2.21	0.41
44:CE:105:ARG:HH11	44:CE:105:ARG:HG3	1.86	0.41
44:CE:183:GLU:N	44:CE:184:PRO:CD	2.84	0.41
44:CE:411:GLU:O	44:CE:413:MET:HE2	2.21	0.41
45:CF:81:PHE:HA	45:CF:84:LEU:CD1	2.50	0.41
44:CG:3:GLU:HG2	44:CG:64:ARG:HH22	1.86	0.41
44:CG:30:ILE:O	44:CG:30:ILE:HG13	2.20	0.41
44:CG:71:GLU:CD	44:CG:73:THR:HG1	2.24	0.41
44:CG:89:PRO:HD3	44:DG:280:LYS:CG	2.51	0.41
44:CG:172:TYR:HD2	44:CG:203:MET:SD	2.44	0.41
44:CG:200:VAL:HG13	44:CG:268:MET:SD	2.61	0.41
44:CG:277:SER:O	44:CG:281:ALA:HB2	2.21	0.41
45:CH:152:ILE:CG2	45:CH:164:MET:HE1	2.48	0.41
44:CM:208:ALA:O	44:CM:212:ILE:HG12	2.20	0.41
44:CM:375:VAL:HG13	44:CM:375:VAL:O	2.21	0.41
45:CN:183:TYR:HE1	45:CN:388:MET:HG3	1.85	0.41
45:CN:258:ILE:HD11	45:CN:266:PHE:HZ	1.86	0.41
44:DA:3:GLU:HA	44:DA:64:ARG:NH2	2.35	0.41
44:DA:10:GLY:N	44:DA:68:LEU:O	2.50	0.41
44:DA:70:LEU:CD1	44:DA:99:ALA:H	2.33	0.41
44:DA:242:LEU:HD11	44:DA:252:ILE:HG13	2.03	0.41
45:DB:287:PRO:HA	45:DB:290:THR:HG22	2.03	0.41
44:DC:296:PHE:CD2	44:DC:335:ILE:HG21	2.56	0.41
45:DD:73:MET:O	45:DD:76:VAL:HG12	2.21	0.41
45:DD:311:LEU:HD23	45:DD:342:VAL:HG11	2.02	0.41
44:DE:11:GLN:HG2	44:DE:12:GLY:N	2.36	0.41
44:DG:31:GLN:HG3	44:DG:32:PRO:HD2	2.03	0.41
44:DG:80:THR:O	44:DG:84:ARG:HD2	2.20	0.41
44:DG:292:THR:HG23	44:DG:293:ASN:N	2.37	0.41
45:DH:65:LEU:HD21	45:DH:85:PHE:HE2	1.86	0.41
45:DH:133:PHE:HB2	45:DH:164:MET:SD	2.61	0.41
44:DI:175:PRO:HG3	44:DI:390:ARG:CZ	2.51	0.41
44:DI:184:PRO:HG2	44:DI:398:MET:HE1	2.03	0.41
44:DI:221:ARG:O	44:DI:221:ARG:HG2	2.21	0.41
44:DI:288:VAL:HA	44:DI:291:ILE:CD1	2.51	0.41
45:DJ:70:PRO:O	45:DJ:74:ASP:N	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:86:ARG:NH1	45:EJ:282:ARG:HG3	2.36	0.41
45:DJ:97:ALA:HB3	45:DJ:143:THR:N	2.36	0.41
45:DJ:107:THR:HB	45:DJ:108:GLU:OE2	2.21	0.41
45:DJ:207:LEU:HB2	45:DJ:225:LEU:HD22	2.03	0.41
45:DJ:378:PHE:O	45:DJ:381:VAL:HG12	2.21	0.41
44:DK:137:VAL:HG12	44:DK:168:GLY:HA2	2.02	0.41
45:DL:49:VAL:O	45:DL:50:TYR:HD1	2.04	0.41
45:DL:317:PHE:CG	45:DL:365:VAL:HG22	2.56	0.41
45:DL:317:PHE:CZ	45:DL:326:VAL:HG13	2.56	0.41
44:DM:250:VAL:CG2	44:DM:352:LYS:HE3	2.50	0.41
45:DN:178:THR:CG2	45:DN:180:VAL:HG12	2.51	0.41
44:EA:234:VAL:O	44:EA:237:SER:HB2	2.21	0.41
45:EB:25:SER:O	45:EB:30:ILE:N	2.52	0.41
45:EB:35:THR:HG23	45:EB:37:HIS:CE1	2.56	0.41
45:EB:259:PRO:HB3	44:EC:404:PHE:CE1	2.56	0.41
44:EC:4:VAL:HG23	44:EC:134:GLY:C	2.42	0.41
44:EC:111:GLY:HA2	44:EC:114:ILE:CG2	2.51	0.41
44:EC:268:MET:HB3	44:EC:380:ASN:CB	2.47	0.41
44:EC:431:ASP:O	44:EC:435:VAL:HG23	2.21	0.41
45:ED:161:ASP:O	45:ED:162:ARG:NH2	2.54	0.41
44:EE:172:TYR:HE2	44:EE:203:MET:CE	2.34	0.41
44:EG:324:VAL:CG1	44:EG:325:PRO:HD2	2.51	0.41
45:EH:30:ILE:HD12	45:EH:84:LEU:HD21	2.02	0.41
45:EH:166:THR:O	45:EH:167:PHE:HD1	2.03	0.41
45:EH:267:MET:HE1	45:EH:299:MET:CB	2.50	0.41
45:EH:288:GLU:C	45:EH:291:GLN:HG3	2.40	0.41
44:EI:242:LEU:O	44:EI:242:LEU:HG	2.21	0.41
45:EJ:152:ILE:O	45:EJ:155:VAL:HG22	2.20	0.41
45:EJ:316:LEU:O	45:EJ:365:VAL:HG13	2.20	0.41
45:EJ:321:MET:HB2	44:EK:221:ARG:NH2	2.36	0.41
44:EK:148:GLY:O	44:EK:151:SER:N	2.53	0.41
44:EK:217:LEU:CD1	44:EK:367:ASP:HB3	2.51	0.41
44:EK:439:THR:HG21	45:EL:390:ARG:CD	2.51	0.41
45:EL:1:MET:C	45:EL:2:ARG:HG2	2.41	0.41
44:FA:23:LEU:HD11	44:FA:361:THR:OG1	2.21	0.41
44:FA:101:ASN:C	44:FA:144:GLY:HA2	2.41	0.41
44:FA:175:PRO:HB3	44:FA:390:ARG:NE	2.35	0.41
45:FB:245:GLN:HB2	45:FB:353:ILE:CG2	2.51	0.41
45:FB:380:ARG:O	45:FB:383:GLU:HB3	2.21	0.41
44:FC:183:GLU:O	44:FC:186:ASN:OD1	2.39	0.41
45:FD:127:CYS:SG	45:FD:130:LEU:HD13	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FD:149:THR:HG23	45:FD:150:LEU:N	2.36	0.41
44:FE:82:THR:HG23	44:FE:83:TYR:N	2.35	0.41
45:FF:44:LEU:HD23	45:FF:44:LEU:HA	1.90	0.41
44:FG:326:LYS:CG	44:FG:327:ASP:H	2.32	0.41
44:FG:387:VAL:HG23	44:FG:388:PHE:N	2.36	0.41
45:FH:49:VAL:HG11	45:FH:241:ARG:HG3	2.03	0.41
44:FI:183:GLU:N	44:FI:184:PRO:CD	2.84	0.41
45:FJ:139:LEU:HD21	45:FJ:168:SER:HB3	2.03	0.41
45:FL:20:PHE:O	45:FL:24:ILE:HG12	2.21	0.41
45:FL:406:MET:HA	45:FL:406:MET:CE	2.50	0.41
44:FM:173:PRO:HG3	44:FM:187:SER:OG	2.21	0.41
44:FM:212:ILE:CG2	44:FM:275:ILE:HD12	2.51	0.41
44:FM:221:ARG:N	44:FM:222:PRO:CD	2.84	0.41
44:GA:326:LYS:NZ	45:GD:212:PHE:HE2	2.19	0.41
45:GB:330:MET:CB	45:GB:349:ILE:HD12	2.51	0.41
45:GD:60:VAL:O	45:GD:60:VAL:HG13	2.20	0.41
44:GE:7:ILE:HD12	44:GE:122:ILE:HD11	2.02	0.41
44:GE:66:VAL:HG23	44:GE:66:VAL:O	2.21	0.41
45:GF:150:LEU:HD21	45:GF:154:LYS:HZ2	1.86	0.41
45:GF:258:ILE:HD12	45:GF:258:ILE:H	1.86	0.41
45:GF:263:LEU:HD12	45:GF:263:LEU:N	2.36	0.41
45:GF:290:THR:HB	45:GF:293:MET:HE2	2.03	0.41
45:GF:323:THR:HG22	45:GF:353:ILE:HG13	2.02	0.41
45:GF:330:MET:CE	45:GF:349:ILE:CD1	2.94	0.41
45:GH:140:GLY:O	45:GH:184:ASN:ND2	2.51	0.41
45:GH:290:THR:O	45:GH:293:MET:HB3	2.21	0.41
45:GH:415:MET:O	45:GH:419:VAL:HG23	2.21	0.41
44:GI:14:ILE:HD12	44:GI:69:ASP:OD2	2.21	0.41
44:GI:28:HIS:HE1	44:GI:244:PHE:HE1	1.67	0.41
45:GJ:167:PHE:CE1	45:GJ:200:MET:HG3	2.56	0.41
45:GJ:326:VAL:O	45:GJ:330:MET:HB2	2.21	0.41
44:GK:7:ILE:HD11	44:GK:135:PHE:CD1	2.55	0.41
44:GK:346:TRP:HB3	45:GN:391:ARG:CG	2.51	0.41
45:GL:151:LEU:O	45:GL:154:LYS:HG2	2.20	0.41
45:GL:169:VAL:O	45:GL:169:VAL:HG23	2.20	0.41
44:GM:203:MET:SD	44:GM:203:MET:N	2.94	0.41
44:GM:358:GLN:HG3	44:GM:359:PRO:HD2	2.03	0.41
45:GN:20:PHE:C	45:GN:23:VAL:HG22	2.41	0.41
45:GN:21:TRP:CZ2	45:GN:63:ALA:HB2	2.56	0.41
45:GN:180:VAL:O	45:GN:180:VAL:HG13	2.21	0.41
44:HA:235:ILE:O	44:HA:239:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HC:217:LEU:C	44:HC:219:ILE:HD12	2.41	0.41
44:HC:320:ARG:CD	44:HC:359:PRO:HA	2.50	0.41
45:HD:380:ARG:HE	45:HD:380:ARG:HB3	1.69	0.41
44:HE:185:TYR:HE1	44:HE:398:MET:HB2	1.86	0.41
44:HE:223:THR:HG23	44:HE:225:THR:H	1.86	0.41
45:HF:316:LEU:HG	45:HF:352:SER:HB2	2.03	0.41
44:HG:196:GLU:OE2	44:HG:264:ARG:NH2	2.53	0.41
44:HG:210:TYR:HE1	44:HG:227:LEU:HD11	1.84	0.41
44:HG:387:VAL:HA	44:HG:390:ARG:CG	2.48	0.41
45:HH:282:ARG:HG3	45:HH:282:ARG:NH1	2.36	0.41
45:HH:310:TYR:CE1	45:HH:371:SER:HB3	2.56	0.41
44:HI:131:GLY:O	44:HI:133:GLN:NE2	2.53	0.41
44:HI:316:SER:HB2	44:HI:352:LYS:HB3	2.03	0.41
45:HJ:173:PRO:CG	45:HJ:380:ARG:HH11	2.34	0.41
45:HJ:183:TYR:O	45:HJ:187:LEU:HG	2.20	0.41
44:HK:181:VAL:HG22	44:HK:181:VAL:O	2.21	0.41
45:HL:101:TRP:CD1	45:HL:101:TRP:C	2.94	0.41
45:HL:173:PRO:HG3	45:HL:380:ARG:NE	2.36	0.41
45:HL:258:ILE:CD1	45:HL:266:PHE:HZ	2.33	0.41
44:HM:140:SER:HB2	46:HM:501:GTP:O4'	2.21	0.41
44:HM:212:ILE:HD11	44:HM:299:ALA:O	2.21	0.41
45:HN:139:LEU:CA	45:HN:145:SER:HB3	2.32	0.41
45:HN:375:GLN:HG3	45:HN:376:GLU:N	2.36	0.41
44:IA:68:LEU:HD11	44:IA:118:CYS:SG	2.61	0.41
44:IA:79:ARG:HG3	44:IA:92:LEU:CD2	2.51	0.41
44:IA:105:ARG:HA	44:IA:109:THR:CG2	2.45	0.41
44:IA:237:SER:HB3	44:IA:376:CYS:HB3	2.03	0.41
44:IA:272:TYR:CG	44:IA:273:ALA:N	2.89	0.41
45:IB:42:LEU:HA	45:IB:45:GLU:CD	2.40	0.41
45:IB:66:MET:SD	45:IB:116:VAL:HG21	2.61	0.41
44:IC:31:GLN:OE1	44:IC:37:PRO:HB3	2.21	0.41
44:IC:288:VAL:HG11	44:IC:327:ASP:HA	2.03	0.41
44:IC:363:VAL:HG22	44:IC:364:PRO:HD2	2.03	0.41
45:ID:190:HIS:O	45:ID:193:VAL:HG12	2.20	0.41
44:IE:6:SER:OG	44:IE:65:ALA:HA	2.21	0.41
44:IE:268:MET:HB2	44:IE:379:SER:O	2.20	0.41
45:IF:24:ILE:HG13	45:IF:27:GLU:OE2	2.21	0.41
45:IF:135:ILE:HG22	45:IF:136:THR:N	2.36	0.41
44:IG:6:SER:O	44:IG:7:ILE:HD13	2.20	0.41
44:IG:10:GLY:O	44:IG:14:ILE:N	2.54	0.41
44:IG:88:HIS:HB3	44:IG:91:GLN:CD	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IG:201:ALA:O	44:IG:267:PHE:HA	2.21	0.41
44:IG:305:CYS:SG	44:IG:306:ASP:N	2.94	0.41
45:IH:66:MET:SD	45:IH:66:MET:O	2.79	0.41
44:II:103:PHE:CD2	44:II:189:LEU:HD13	2.56	0.41
45:IJ:19:LYS:O	45:IJ:22:GLU:HG2	2.21	0.41
45:IJ:101:TRP:HD1	45:IJ:145:SER:OG	2.03	0.41
45:IJ:164:MET:CE	45:IJ:166:THR:HG23	2.51	0.41
45:IJ:304:ASP:CG	45:IJ:306:ARG:HG2	2.40	0.41
44:IK:70:LEU:HD21	44:IK:149:LEU:HD21	2.03	0.41
45:IL:175:VAL:O	45:IL:175:VAL:HG23	2.21	0.41
45:IL:213:ARG:CZ	45:IL:214:THR:HA	2.50	0.41
44:IM:152:LEU:O	44:IM:156:ARG:HG2	2.20	0.41
44:IM:306:ASP:HB3	44:IM:309:HIS:CE1	2.56	0.41
44:IM:329:ASN:O	44:IM:333:ALA:HB2	2.21	0.41
44:JA:11:GLN:HE22	45:JB:247:ASN:H	1.68	0.41
44:JA:265:ILE:HG23	44:JA:432:TYR:CE1	2.55	0.41
45:JB:25:SER:HB3	45:JB:30:ILE:CG1	2.51	0.41
45:JB:134:GLN:C	45:JB:135:ILE:HD13	2.41	0.41
45:JB:218:THR:HG23	45:JB:219:THR:N	2.36	0.41
44:JC:175:PRO:HG2	44:JC:304:LYS:HG2	2.02	0.41
44:JC:285:GLN:HG2	44:JC:286:LEU:N	2.36	0.41
44:JE:352:LYS:HA	45:JH:177:ASP:O	2.21	0.41
45:JF:101:TRP:CE3	45:JF:187:LEU:HD13	2.56	0.41
44:JG:73:THR:HG21	45:JH:247:ASN:HD21	1.86	0.41
44:JG:276:ILE:HD11	44:JG:280:LYS:HG3	2.03	0.41
44:JI:24:PHE:CZ	44:JI:235:ILE:HG22	2.52	0.41
44:JI:169:PHE:HE1	44:JI:202:VAL:HG21	1.85	0.41
44:JI:260:VAL:HG23	45:JL:397:TRP:HZ2	1.84	0.41
45:JJ:77:ARG:HA	45:JJ:82:GLY:HA3	2.03	0.41
44:JK:31:GLN:OE1	44:JK:35:GLN:O	2.39	0.41
44:JK:169:PHE:HE1	44:JK:202:VAL:HG21	1.86	0.41
44:JK:250:VAL:CB	44:JK:352:LYS:HZ1	2.34	0.41
44:JK:271:SER:CB	44:JK:377:MET:HE3	2.42	0.41
45:JL:372:THR:HA	45:JL:422:TYR:CE2	2.55	0.41
44:JM:252:ILE:HA	44:JM:255:PHE:CZ	2.56	0.41
45:JN:113:ILE:CD1	45:JN:150:LEU:HG	2.51	0.41
45:JN:286:VAL:CG2	45:JN:321:MET:HE3	2.51	0.41
45:JN:333:VAL:HG22	45:JN:337:ASN:HD21	1.86	0.41
45:JN:396:HIS:HA	45:JN:399:THR:CG2	2.48	0.41
44:KA:175:PRO:HG2	44:KA:176:GLN:OE1	2.21	0.41
45:KB:261:PRO:O	45:KB:264:HIS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KC:105:ARG:NE	45:KD:251:ARG:HH22	2.19	0.41
44:KC:196:GLU:OE1	44:KC:196:GLU:N	2.54	0.41
44:KC:284:GLU:CD	44:KC:285:GLN:N	2.75	0.41
45:KD:150:LEU:HA	45:KD:150:LEU:HD23	1.86	0.41
44:KE:184:PRO:HA	44:KE:187:SER:OG	2.20	0.41
44:KE:332:ILE:HG23	44:KE:351:PHE:CD2	2.55	0.41
44:KE:425:LEU:HD23	44:KE:429:GLU:HG3	2.03	0.41
44:KG:101:ASN:HB3	44:KG:182:VAL:CG1	2.49	0.41
45:KH:3:GLU:CG	45:KH:62:ARG:HH12	2.34	0.41
45:KH:150:LEU:HD23	45:KH:150:LEU:O	2.21	0.41
45:KH:318:ARG:NE	45:KH:358:PRO:HG3	2.36	0.41
44:KI:33:ASP:CG	44:KI:35:GLN:HE22	2.20	0.41
44:KI:67:PHE:HB2	44:KI:92:LEU:HD23	2.01	0.41
44:KI:217:LEU:HA	44:KI:277:SER:HB3	2.02	0.41
44:KI:399:TYR:O	44:KI:402:ARG:N	2.52	0.41
45:KJ:156:ARG:NE	45:KJ:156:ARG:HA	2.35	0.41
45:KL:8:GLN:NE2	45:KL:65:LEU:HD21	2.36	0.41
44:KM:406:HIS:CD2	45:KN:261:PRO:HG3	2.54	0.41
45:KN:21:TRP:CZ2	45:KN:61:PRO:HB3	2.56	0.41
45:KN:285:THR:HG23	45:KN:288:GLU:OE1	2.22	0.41
45:KN:303:ALA:HB1	45:KN:373:ALA:O	2.21	0.41
45:KN:384:GLN:O	45:KN:388:MET:N	2.46	0.41
45:LB:39:ASP:OD1	45:LB:40:SER:N	2.54	0.41
45:LB:148:GLY:O	45:LB:152:ILE:HG12	2.21	0.41
44:LC:292:THR:O	44:LC:295:ALA:HB3	2.21	0.41
44:LC:315:CYS:O	44:LC:351:PHE:HA	2.21	0.41
45:LD:4:ILE:O	45:LD:62:ARG:HD2	2.21	0.41
45:LD:193:VAL:HG21	45:LD:418:LEU:HD12	2.02	0.41
44:LE:123:ARG:HG2	44:LE:123:ARG:NH1	2.32	0.41
44:LE:133:GLN:CB	44:LE:252:ILE:HD12	2.51	0.41
44:LE:262:TYR:HB3	44:LE:263:PRO:HD2	2.03	0.41
45:LF:1:MET:C	45:LF:2:ARG:HG2	2.41	0.41
44:LG:103:PHE:CE1	44:LG:189:LEU:HD22	2.56	0.41
45:LH:58:ARG:CZ	45:MH:281:TYR:HE1	2.34	0.41
45:LH:282:ARG:NE	45:LH:288:GLU:OE2	2.54	0.41
45:LH:313:ALA:HB1	45:LH:367:PHE:CE1	2.56	0.41
45:LH:383:GLU:O	45:LH:386:THR:HG22	2.20	0.41
44:LI:439:THR:HB	45:LL:390:ARG:CZ	2.51	0.41
45:LJ:245:GLN:CG	45:LJ:353:ILE:HG21	2.44	0.41
45:LL:100:ASN:HB3	45:LL:103:LYS:HD3	2.02	0.41
45:LL:167:PHE:HE2	45:LL:233:MET:HG3	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LM:7:ILE:HD13	44:LM:66:VAL:CG1	2.50	0.41
44:LM:292:THR:HG23	44:LM:293:ASN:N	2.35	0.41
44:LM:413:MET:HG3	44:LM:417:GLU:HG3	2.02	0.41
44:MA:119:LEU:HD11	44:MA:156:ARG:CG	2.50	0.41
45:MB:269:GLY:HA3	45:MB:299:MET:CE	2.51	0.41
44:MC:74:VAL:HG13	44:MC:75:ILE:N	2.36	0.41
45:MD:202:ILE:HG21	45:MD:300:MET:HE1	2.03	0.41
45:MD:238:CYS:CB	45:MD:318:ARG:NH2	2.84	0.41
45:MF:42:LEU:HB3	45:MF:45:GLU:OE2	2.20	0.41
45:MF:169:VAL:HA	45:MF:202:ILE:O	2.21	0.41
45:MF:237:THR:HG22	45:MF:250:LEU:CD2	2.32	0.41
45:MF:280:GLN:C	45:MF:281:TYR:HD1	2.23	0.41
44:MG:42:ILE:CB	44:MG:45:GLY:HA2	2.43	0.41
45:MH:69:GLU:OE1	45:MH:71:GLY:N	2.54	0.41
44:MI:1:MET:HG3	44:MI:1:MET:O	2.21	0.41
44:MI:292:THR:HG23	44:MI:293:ASN:N	2.36	0.41
45:MJ:11:GLN:HG3	45:MJ:72:THR:CG2	2.51	0.41
45:MJ:22:GLU:HG2	45:MJ:81:PHE:CB	2.51	0.41
45:MJ:215:LEU:HD21	45:MJ:273:LEU:HD13	2.03	0.41
44:MK:7:ILE:CD1	44:MK:66:VAL:HG22	2.49	0.41
44:MK:99:ALA:O	45:ML:251:ARG:NH1	2.53	0.41
44:MK:212:ILE:HD11	44:MK:300:ASN:HA	2.03	0.41
45:ML:101:TRP:NE1	45:ML:105:HIS:HD2	2.18	0.41
45:ML:270:PHE:HD1	45:ML:271:ALA:H	1.68	0.41
45:ML:342:VAL:CG1	45:ML:345:ILE:HG22	2.51	0.41
44:MM:209:ILE:CA	44:MM:212:ILE:HG22	2.50	0.41
45:NB:388:MET:CE	45:NB:388:MET:N	2.84	0.41
44:NC:292:THR:HG23	44:NC:293:ASN:N	2.36	0.41
44:NC:315:CYS:SG	44:NC:317:MET:CE	3.09	0.41
45:ND:22:GLU:CG	45:ND:81:PHE:HB2	2.51	0.41
45:ND:175:VAL:HG22	45:ND:205:GLU:CG	2.51	0.41
45:ND:416:ASN:C	45:ND:416:ASN:OD1	2.59	0.41
44:NE:6:SER:C	44:NE:7:ILE:HD13	2.41	0.41
44:NE:183:GLU:HG2	44:NE:184:PRO:N	2.35	0.41
44:NE:253:THR:HG22	45:NH:98:GLY:CA	2.43	0.41
45:NF:64:ILE:HG23	45:NF:89:ASN:HB3	2.03	0.41
45:NF:183:TYR:HE2	45:NF:395:LEU:HD13	1.86	0.41
45:NF:293:MET:CE	45:NF:367:PHE:CB	2.98	0.41
45:NF:298:ASN:ND2	45:NF:298:ASN:O	2.44	0.41
45:NF:353:ILE:HG22	45:NF:354:CYS:N	2.35	0.41
44:NG:24:PHE:HE1	44:NG:236:SER:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NG:284:GLU:HG3	44:NG:286:LEU:H	1.86	0.41
44:NG:402:ARG:NH1	44:NG:406:HIS:HB3	2.23	0.41
45:NH:372:THR:O	45:NH:375:GLN:HG2	2.21	0.41
44:NI:242:LEU:CD1	44:NI:252:ILE:HD11	2.52	0.41
45:NJ:7:ILE:O	45:NJ:7:ILE:HG23	2.21	0.41
44:NK:107:HIS:ND1	44:NK:108:TYR:CE1	2.88	0.41
44:NK:212:ILE:HD12	44:NK:300:ASN:OD1	2.21	0.41
44:NK:221:ARG:CZ	45:NL:322:SER:H	2.34	0.41
44:NK:225:THR:O	44:NK:228:ASN:ND2	2.52	0.41
44:NK:388:PHE:CE1	44:NK:425:LEU:HD22	2.56	0.41
45:NL:342:VAL:HG13	45:NL:345:ILE:CG2	2.50	0.41
45:NL:345:ILE:O	45:NL:348:ASN:HB3	2.21	0.41
45:NL:379:LYS:O	45:NL:382:ALA:N	2.54	0.41
44:NM:105:ARG:NH1	45:NN:251:ARG:CZ	2.84	0.41
44:NM:120:ASP:HB3	44:NM:124:LYS:NZ	2.35	0.41
44:NM:213:CYS:HA	44:NM:217:LEU:HB2	2.02	0.41
44:OA:9:VAL:HG13	44:OA:139:ASN:HB3	2.02	0.41
45:OB:184:ASN:HA	45:OB:187:LEU:HD12	2.03	0.41
45:OB:382:ALA:HB1	45:OB:412:GLU:OE2	2.21	0.41
44:OC:405:VAL:HG23	44:OC:406:HIS:N	2.36	0.41
45:OD:257:LEU:HD11	45:OD:314:SER:HB3	2.03	0.41
44:OE:324:VAL:HG13	44:OE:325:PRO:CD	2.50	0.41
45:OF:134:GLN:HA	45:OF:165:GLU:HB2	2.03	0.41
45:OF:226:ASN:HD21	48:OF:501:GDP:HN1	1.68	0.41
44:OG:17:GLY:HA2	44:OG:20:CYS:SG	2.61	0.41
45:OH:263:LEU:CD2	45:OH:422:TYR:CE1	3.04	0.41
44:OI:16:VAL:HG23	44:OI:17:GLY:N	2.35	0.41
44:OI:102:ASN:HA	44:OI:408:TYR:HE1	1.85	0.41
44:OI:261:PRO:HG2	44:OI:313:MET:HE2	2.03	0.41
44:OI:319:TYR:HB2	44:OI:354:GLY:O	2.21	0.41
45:OJ:175:VAL:CG2	45:OJ:204:ASN:HB3	2.51	0.41
44:OK:141:VAL:CG2	44:OK:190:SER:HB3	2.45	0.41
44:OK:274:PRO:HD3	44:OK:291:ILE:CD1	2.51	0.41
44:OK:406:HIS:CD2	44:OK:406:HIS:H	2.38	0.41
45:OL:113:ILE:HG13	45:OL:116:VAL:HG13	2.01	0.41
45:OL:242:PHE:HB3	45:OL:243:PRO:CD	2.51	0.41
45:OL:319:GLY:HA2	45:OL:357:PRO:CG	2.51	0.41
44:OM:301:MET:SD	44:OM:303:ALA:O	2.79	0.41
45:ON:284:LEU:HD11	45:ON:289:LEU:CD2	2.51	0.41
45:ON:284:LEU:CD2	45:ON:363:MET:HB2	2.51	0.41
44:PA:34:GLY:HA3	44:PA:60:LYS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PA:212:ILE:HD11	44:PA:300:ASN:CA	2.45	0.41
44:PA:258:ASN:CB	44:PA:352:LYS:HD2	2.51	0.41
44:PA:396:ASP:OD1	44:PA:396:ASP:C	2.59	0.41
44:PC:68:LEU:HG	44:PC:93:ILE:CB	2.45	0.41
44:PC:210:TYR:CG	45:PD:324:LYS:HD2	2.56	0.41
44:PC:435:VAL:CG2	45:PF:391:ARG:HH22	2.33	0.41
45:PD:30:ILE:HG22	45:PD:34:GLY:HA2	2.03	0.41
45:PD:286:VAL:N	45:PD:287:PRO:CD	2.84	0.41
44:PE:320:ARG:N	44:PE:374:ALA:O	2.54	0.41
44:PG:172:TYR:OH	44:PG:194:LEU:HD21	2.21	0.41
44:PG:231:ILE:O	44:PG:234:VAL:N	2.52	0.41
44:PG:272:TYR:HD2	44:PG:275:ILE:CG1	2.34	0.41
44:PG:332:ILE:HD12	44:PG:351:PHE:CE2	2.57	0.41
45:PH:155:VAL:HG13	45:PH:156:ARG:N	2.36	0.41
45:PH:403:MET:HA	45:PH:407:GLU:OE2	2.21	0.41
44:PI:224:TYR:CE2	45:PJ:246:LEU:HD11	2.56	0.41
45:PJ:12:CYS:HB3	45:PJ:138:SER:CB	2.47	0.41
45:PJ:67:ASP:CB	45:PJ:73:MET:CE	2.99	0.41
45:PJ:110:ALA:HA	45:PJ:113:ILE:HG22	2.00	0.41
44:PK:136:LEU:HD23	44:PK:167:LEU:HD21	2.03	0.41
44:PK:261:PRO:HB3	45:PN:394:PHE:CD1	2.56	0.41
45:PL:1:MET:HG3	45:PL:2:ARG:N	2.36	0.41
45:PL:147:MET:SD	45:PL:147:MET:C	2.99	0.41
45:PL:263:LEU:HD23	45:PL:422:TYR:CE1	2.55	0.41
45:PL:378:PHE:CB	45:PL:419:VAL:HG22	2.51	0.41
44:PM:420:GLU:HA	44:PM:423:GLU:CD	2.41	0.41
45:PN:72:THR:HG23	45:PN:73:MET:N	2.36	0.41
45:PN:309:ARG:O	45:PN:371:SER:OG	2.38	0.41
44:QA:254:GLU:HA	44:QA:257:THR:OG1	2.21	0.41
44:QA:292:THR:HG23	44:QA:293:ASN:N	2.36	0.41
45:QB:180:VAL:HG21	45:QB:398:TYR:OH	2.21	0.41
44:QC:145:THR:HG22	46:QC:501:GTP:O1B	2.21	0.41
44:QC:168:GLY:O	44:QC:201:ALA:HA	2.21	0.41
44:QC:219:ILE:HG23	44:QC:222:PRO:HG3	2.02	0.41
44:QC:229:ARG:CZ	44:QC:229:ARG:CA	2.97	0.41
44:QC:240:ALA:HA	44:QC:243:ARG:HG2	2.03	0.41
45:QD:163:ILE:HD11	45:QD:250:LEU:CD1	2.49	0.41
45:QD:398:TYR:HB3	45:QD:408:PHE:HE2	1.86	0.41
44:QG:288:VAL:HG21	44:QG:323:VAL:CG2	2.47	0.41
45:QH:69:GLU:HA	45:QH:70:PRO:HD3	1.92	0.41
44:QI:325:PRO:HA	44:QI:355:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QJ:22:GLU:HA	45:QJ:81:PHE:CE2	2.55	0.41
45:QJ:60:VAL:O	45:QJ:60:VAL:HG23	2.21	0.41
44:QK:210:TYR:OH	44:QK:224:TYR:HE1	2.03	0.41
44:QK:288:VAL:HG23	44:QK:289:ALA:N	2.36	0.41
45:QL:97:ALA:CB	45:QL:143:THR:HB	2.44	0.41
45:QL:167:PHE:HE2	45:QL:233:MET:HA	1.86	0.41
45:QL:199:CYS:O	45:QL:200:MET:HE1	2.21	0.41
44:QM:188:ILE:HG23	44:QM:425:LEU:CD1	2.50	0.41
44:QM:298:PRO:HA	44:QM:301:MET:HG2	2.03	0.41
45:RB:68:LEU:HD23	45:RB:97:ALA:N	2.35	0.41
45:RD:208:TYR:CZ	45:RD:225:LEU:HD11	2.56	0.41
45:RD:324:LYS:HE2	44:RE:210:TYR:HB3	2.03	0.41
44:RE:266:HIS:O	44:RE:267:PHE:HD1	2.04	0.41
44:RE:320:ARG:HD3	44:RE:360:PRO:HG3	2.01	0.41
44:RG:257:THR:HA	45:RH:397:TRP:CE2	2.56	0.41
44:RG:387:VAL:O	44:RG:390:ARG:HG2	2.21	0.41
45:RH:3:GLU:CB	45:RH:49:VAL:HG23	2.51	0.41
45:RJ:133:PHE:O	45:RJ:165:GLU:N	2.54	0.41
45:RJ:187:LEU:HD23	45:RJ:411:ALA:HB3	2.03	0.41
45:RL:73:MET:HA	45:RL:76:VAL:CG1	2.51	0.41
45:RN:72:THR:HG23	45:RN:73:MET:N	2.35	0.41
44:SA:11:GLN:NE2	44:SA:15:GLN:OE1	2.46	0.41
44:SA:191:THR:CA	44:SA:194:LEU:HG	2.48	0.41
44:SA:212:ILE:HD12	44:SA:212:ILE:H	1.85	0.41
44:SA:263:PRO:O	44:SA:266:HIS:HD2	2.02	0.41
44:SA:311:LYS:HD3	44:SA:311:LYS:N	2.36	0.41
45:SB:25:SER:O	45:SB:26:ASP:C	2.59	0.41
45:SB:60:VAL:HG13	45:SB:60:VAL:O	2.21	0.41
45:SB:163:ILE:HG23	45:SB:251:ARG:CZ	2.51	0.41
44:SC:145:THR:HG23	44:SC:146:GLY:N	2.35	0.41
44:SC:206:ASN:O	44:SC:209:ILE:HB	2.21	0.41
45:SD:67:ASP:CG	45:SD:69:GLU:H	2.23	0.41
45:SD:286:VAL:HB	45:SD:287:PRO:HD3	2.03	0.41
45:SD:286:VAL:CG2	45:SD:363:MET:HE2	2.48	0.41
44:SE:167:LEU:HG	44:SE:200:VAL:HB	2.03	0.41
44:SE:238:LEU:HD21	44:SE:255:PHE:CZ	2.56	0.41
44:SE:405:VAL:HG13	44:SE:418:PHE:CE1	2.54	0.41
44:SG:64:ARG:HD3	44:SG:129:CYS:SG	2.61	0.41
44:SG:104:ALA:CB	44:SG:411:GLU:HB2	2.50	0.41
44:SG:420:GLU:HA	44:SG:423:GLU:HG3	2.03	0.41
45:SH:1:MET:N	45:SH:46:ARG:NH1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SH:63:ALA:HB1	45:SH:65:LEU:HD11	2.04	0.41
44:SI:65:ALA:HB1	44:SI:67:PHE:CE1	2.55	0.41
44:SI:189:LEU:HD23	44:SI:421:ALA:CB	2.51	0.41
45:SJ:131:GLN:HE22	45:SJ:163:ILE:HD11	1.86	0.41
45:SL:8:GLN:HE21	45:SL:14:ASN:HA	1.86	0.41
45:SL:207:LEU:HB3	45:SL:225:LEU:HD22	2.03	0.41
44:SM:234:VAL:HG22	44:SM:272:TYR:HB2	2.03	0.41
45:SN:215:LEU:HD21	45:SN:273:LEU:HD22	2.03	0.41
45:SN:230:SER:HA	45:SN:233:MET:HE2	2.04	0.41
45:SN:287:PRO:C	45:SN:290:THR:HG22	2.41	0.41
44:TA:16:VAL:CG1	44:TA:138:PHE:HB3	2.51	0.41
44:TA:304:LYS:CE	44:TA:387:VAL:HG12	2.47	0.41
44:TC:1:MET:HE2	45:TD:70:PRO:HG2	2.02	0.41
44:TC:81:GLY:O	44:TC:84:ARG:HD2	2.21	0.41
44:TC:121:ARG:HE	44:TC:121:ARG:HB2	1.55	0.41
44:TE:122:ILE:HG22	44:TE:161:TYR:OH	2.20	0.41
44:TE:387:VAL:CG1	44:TE:390:ARG:HH11	2.33	0.41
45:TF:198:GLU:HA	45:TF:264:HIS:HB2	2.03	0.41
45:TF:391:ARG:HA	45:TF:391:ARG:HD2	1.75	0.41
44:TG:183:GLU:CD	44:TG:184:PRO:HD3	2.42	0.41
44:TG:319:TYR:CD1	44:TG:375:VAL:CG2	3.04	0.41
45:TH:51:TYR:HE1	45:TH:61:PRO:HD3	1.86	0.41
44:TI:150:GLY:O	44:TI:153:LEU:N	2.55	0.41
44:TI:419:SER:O	44:TI:422:ARG:HB3	2.21	0.41
45:TJ:135:ILE:HG22	45:TJ:137:HIS:ND1	2.35	0.41
45:TL:127:CYS:SG	45:TL:130:LEU:HD13	2.61	0.41
45:TL:417:ASP:OD1	45:TL:421:GLU:HG3	2.21	0.41
44:TM:176:GLN:HG2	44:TM:177:VAL:HG23	2.03	0.41
44:TM:317:MET:HE2	44:TM:375:VAL:CG2	2.51	0.41
45:TN:19:LYS:HZ1	45:TN:227:HIS:HA	1.85	0.41
45:TN:139:LEU:HD11	45:TN:168:SER:HB3	2.02	0.41
45:TN:237:THR:OG1	45:TN:240:LEU:HB3	2.21	0.41
44:UA:53:PHE:O	44:UA:64:ARG:NE	2.51	0.41
44:UA:401:LYS:HE3	44:UA:401:LYS:HB2	1.72	0.41
44:UC:301:MET:HE2	44:UC:307:PRO:HG3	2.02	0.41
45:UD:235:GLY:O	45:UD:316:LEU:HD23	2.21	0.41
44:UE:97:GLU:HG2	44:UE:105:ARG:HH22	1.86	0.41
44:UE:114:ILE:HG23	44:UE:117:LEU:CD1	2.50	0.41
44:UE:274:PRO:HG3	44:UE:286:LEU:HD12	2.02	0.41
45:UF:267:MET:O	45:UF:368:VAL:HA	2.20	0.41
45:UF:355:ASP:O	45:UF:356:ILE:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UG:22:GLU:OE2	44:UG:83:TYR:HE2	2.03	0.41
44:UG:189:LEU:O	44:UG:192:HIS:HB3	2.21	0.41
45:UH:66:MET:SD	45:UH:116:VAL:HG11	2.60	0.41
45:UH:304:ASP:OD1	45:UH:305:PRO:HD2	2.21	0.41
44:UI:209:ILE:HG22	44:UI:227:LEU:CD2	2.28	0.41
44:UI:402:ARG:O	44:UI:405:VAL:HG13	2.20	0.41
45:UJ:24:ILE:HD11	45:UJ:234:SER:HB3	2.03	0.41
45:UJ:163:ILE:HD11	45:UJ:250:LEU:HD12	2.03	0.41
45:UJ:289:LEU:HD22	45:UJ:365:VAL:HG23	2.03	0.41
45:UL:132:GLY:CA	45:UL:163:ILE:O	2.68	0.41
44:UM:187:SER:HA	44:UM:190:SER:OG	2.21	0.41
45:UN:19:LYS:HE3	45:UN:227:HIS:HB2	2.02	0.41
44:VA:71:GLU:HA	44:VA:72:PRO:HD3	1.96	0.41
44:VA:101:ASN:OD1	44:VA:101:ASN:O	2.39	0.41
44:VA:371:VAL:HG22	44:VA:373:ARG:H	1.86	0.41
45:VB:172:SER:HA	45:VB:380:ARG:HH22	1.86	0.41
45:VB:244:GLY:HA2	45:VB:355:ASP:N	2.36	0.41
45:VB:265:PHE:CD2	45:VB:378:PHE:HZ	2.38	0.41
44:VC:4:VAL:HG21	44:VC:136:LEU:HG	2.03	0.41
44:VC:221:ARG:N	44:VC:222:PRO:HD3	2.35	0.41
44:VC:432:TYR:HA	44:VC:435:VAL:CG2	2.51	0.41
45:VD:38:GLY:HA3	45:VD:43:GLN:NE2	2.36	0.41
44:VE:141:VAL:HG13	44:VE:142:GLY:N	2.36	0.41
44:VE:205:ASP:OD1	44:VE:205:ASP:O	2.39	0.41
44:VE:224:TYR:CE1	45:VF:323:THR:HB	2.55	0.41
44:VG:13:GLY:O	44:VG:16:VAL:HG12	2.20	0.41
44:VG:183:GLU:N	44:VG:184:PRO:CD	2.84	0.41
44:VG:293:ASN:O	44:VG:297:GLU:HG3	2.20	0.41
45:VH:6:HIS:HE1	45:VH:136:THR:HG23	1.82	0.41
44:VI:183:GLU:CD	44:VI:184:PRO:HD3	2.42	0.41
45:VJ:391:ARG:HA	45:VJ:391:ARG:HD2	1.73	0.41
45:VL:318:ARG:HB3	45:VL:354:CYS:HB3	2.02	0.41
45:VL:391:ARG:HA	45:VL:391:ARG:HD2	1.75	0.41
45:VN:105:HIS:NE2	45:VN:150:LEU:HB2	2.36	0.41
45:VN:116:VAL:O	45:VN:116:VAL:HG22	2.20	0.41
45:VN:248:SER:OG	45:VN:253:LEU:HD12	2.21	0.41
44:WA:169:PHE:HB3	44:WA:204:LEU:HD11	2.02	0.41
45:WB:271:ALA:HB1	45:WB:272:PRO:HA	2.03	0.41
44:WE:3:GLU:OE1	44:WE:129:CYS:HA	2.21	0.41
44:WE:236:SER:HA	44:WE:243:ARG:NH2	2.36	0.41
44:WE:292:THR:CG2	44:WE:331:SER:HB2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WG:183:GLU:N	44:WG:184:PRO:CD	2.83	0.41
44:WI:213:CYS:O	44:WI:217:LEU:HB2	2.21	0.41
44:WI:285:GLN:HG3	44:WI:290:GLU:OE2	2.20	0.41
44:WI:287:SER:H	44:WI:290:GLU:CD	2.22	0.41
45:WJ:240:LEU:HD23	45:WJ:240:LEU:O	2.20	0.41
44:WK:75:ILE:HG23	44:WK:92:LEU:HD23	2.03	0.41
44:WK:186:ASN:O	44:WK:190:SER:N	2.54	0.41
44:WK:204:LEU:HD13	44:WK:231:ILE:HD12	2.03	0.41
44:WK:224:TYR:HB3	46:WK:501:GTP:O6	2.22	0.41
45:WL:406:MET:O	45:WL:410:GLU:HG3	2.22	0.41
44:WM:326:LYS:HD2	44:WM:327:ASP:N	2.36	0.41
44:WM:329:ASN:HA	44:WM:332:ILE:CG1	2.50	0.41
44:WM:344:VAL:HG21	44:WM:346:TRP:CZ2	2.56	0.41
45:WN:91:VAL:HG11	45:WN:116:VAL:HB	2.03	0.41
45:WN:217:LEU:HD11	45:WN:220:PRO:CA	2.51	0.41
7:0F:84:TYR:HE2	44:EE:18:ASN:ND2	2.19	0.40
2:1A:127:ASN:OD1	45:AF:362:LYS:HE2	2.20	0.40
2:1A:128:HIS:HB2	45:AF:361:LEU:N	2.35	0.40
5:1D:82:TYR:O	45:EF:42:LEU:HD22	2.20	0.40
19:1I:82:PHE:CD2	45:JD:362:LYS:HE3	2.55	0.40
19:1I:163:ARG:HB3	44:KE:46:ASP:OD2	2.21	0.40
19:1I:216:PRO:HG3	44:LE:359:PRO:HG3	2.01	0.40
22:1L:64:ASP:OD2	44:BI:278:ALA:HB3	2.21	0.40
22:1L:173:GLN:HE22	44:CI:279:GLU:HG2	1.85	0.40
22:1L:826:LYS:O	35:7R:177:VAL:HG21	2.21	0.40
26:1R:183:LYS:HZ2	45:AF:33:THR:HG22	1.86	0.40
27:1W:243:ILE:HA	45:LB:276:ARG:HH21	1.84	0.40
2:2A:91:ASN:HA	45:MJ:37:HIS:NE2	2.36	0.40
2:2A:111:SER:HB2	45:AJ:276:ARG:HH21	1.83	0.40
17:2B:237:LYS:HD2	44:JK:84:ARG:HH12	1.85	0.40
28:2C:298:PRO:CB	45:KJ:359:LYS:HZ1	2.26	0.40
26:2R:193:TYR:CB	44:AG:39:ASP:HB2	2.43	0.40
26:2R:407:PHE:CB	44:DG:58:ALA:CB	2.96	0.40
15:2V:38:PHE:CE2	44:ME:177:VAL:HG21	2.57	0.40
16:2X:31:ASP:OD2	45:ML:219:THR:OG1	2.33	0.40
26:3R:14:THR:OG1	45:MN:221:THR:HG21	2.20	0.40
26:3R:153:LYS:NZ	45:AN:75:SER:O	2.44	0.40
26:3R:256:ARG:HD3	44:CK:42:ILE:HG23	2.02	0.40
15:3V:69:SER:O	45:LB:121:ARG:NE	2.54	0.40
16:3X:107:ASP:OD2	44:MK:279:GLU:HA	2.22	0.40
28:4C:67:LYS:CD	44:LM:82:THR:HG23	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4F:37:GLN:CD	44:HI:84:ARG:HH21	2.24	0.40
36:4S:191:ASN:CG	45:AD:424:GLN:HE22	2.24	0.40
37:5C:40:VAL:HA	44:KG:264:ARG:CD	2.51	0.40
37:5D:26:LYS:HD3	45:KN:395:LEU:CD1	2.48	0.40
38:5E:154:TYR:HE1	45:ND:35:THR:CG2	2.34	0.40
38:5E:213:TYR:HB2	45:LF:392:LYS:CE	2.51	0.40
38:5F:116:TYR:O	38:5F:118:PRO:HD3	2.21	0.40
38:5F:151:GLU:O	38:5F:155:MET:CE	2.69	0.40
38:5H:38:VAL:HG13	38:5H:39:ASP:N	2.36	0.40
38:5H:93:PHE:HE2	45:KN:261:PRO:CB	2.35	0.40
38:5H:107:VAL:CG1	38:5H:108:LYS:H	2.32	0.40
39:5I:103:GLN:OE1	45:JD:390:ARG:HG3	2.21	0.40
35:5R:88:TYR:CD2	35:5R:122:LEU:HD21	2.56	0.40
35:5R:126:THR:CG2	35:5R:147:ARG:HD2	2.50	0.40
35:5R:175:GLU:CD	45:AL:32:PRO:HD2	2.41	0.40
35:5R:557:ASP:OD2	35:5R:562:GLY:N	2.48	0.40
36:5S:169:VAL:C	36:5S:175:ILE:HD11	2.40	0.40
35:6R:564:ILE:HG12	35:6R:600:LEU:HB3	2.03	0.40
35:7R:174:PHE:CE2	45:AD:80:PRO:HB3	2.56	0.40
35:7R:320:GLY:O	45:CB:276:ARG:HD2	2.21	0.40
35:7R:492:ILE:HB	35:7R:583:GLN:NE2	2.35	0.40
35:7R:509:ASP:HB3	35:7R:512:THR:HB	2.03	0.40
44:AA:83:TYR:O	44:AA:86:LEU:N	2.45	0.40
44:AA:132:LEU:HD23	44:AA:164:LYS:HD2	2.02	0.40
45:AB:163:ILE:HG21	45:AB:251:ARG:CG	2.50	0.40
45:AB:192:LEU:HG	45:AB:196:ALA:CB	2.51	0.40
45:AD:42:LEU:HD12	45:AD:42:LEU:H	1.86	0.40
44:AE:88:HIS:CD2	44:BE:283:HIS:HB3	2.55	0.40
44:AE:141:VAL:HG11	44:AE:172:TYR:HD1	1.75	0.40
44:AE:401:LYS:O	44:AE:402:ARG:HG2	2.21	0.40
45:AF:281:TYR:CZ	45:MF:58:ARG:NH2	2.89	0.40
45:AF:376:GLU:HG2	45:AF:380:ARG:HH21	1.84	0.40
44:AI:262:TYR:HE2	44:AI:435:VAL:HG23	1.85	0.40
44:AI:408:TYR:HD1	44:AI:418:PHE:CZ	2.39	0.40
45:AJ:69:GLU:HA	45:AJ:70:PRO:HD3	1.93	0.40
45:AJ:293:MET:HE3	45:AJ:367:PHE:HA	2.03	0.40
44:AK:385:ALA:HB2	44:AK:432:TYR:CD2	2.52	0.40
45:AL:139:LEU:HD13	45:AL:168:SER:CB	2.51	0.40
45:AN:85:PHE:O	45:BN:281:TYR:HE2	2.03	0.40
45:AN:214:THR:O	45:AN:216:LYS:HG3	2.21	0.40
45:AN:321:MET:SD	45:AN:353:ILE:HG23	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AN:390:ARG:HD2	45:AN:391:ARG:HG2	2.03	0.40
44:BA:7:ILE:CD1	44:BA:66:VAL:HG12	2.47	0.40
44:BA:66:VAL:C	44:BA:67:PHE:HD1	2.24	0.40
44:BA:67:PHE:C	44:BA:68:LEU:HD12	2.42	0.40
44:BA:319:TYR:HB3	44:BA:323:VAL:HG11	2.02	0.40
45:BB:83:GLN:HA	45:BB:83:GLN:OE1	2.21	0.40
44:BC:403:ALA:HB1	44:BC:404:PHE:HD1	1.86	0.40
45:BD:68:LEU:O	45:BD:68:LEU:HG	2.21	0.40
45:BD:246:LEU:HD13	45:BD:353:ILE:HD13	2.02	0.40
44:BE:100:ALA:HB1	45:BF:255:VAL:CG2	2.51	0.40
44:BE:246:GLY:HA2	44:BE:357:TYR:CD2	2.56	0.40
44:BE:326:LYS:HZ1	45:BH:175:VAL:CG1	2.29	0.40
45:BF:189:VAL:O	45:BF:193:VAL:HG12	2.20	0.40
45:BF:314:SER:HB2	45:BF:350:LYS:HB3	2.03	0.40
44:BG:5:ILE:HG13	44:BG:132:LEU:HD11	2.03	0.40
44:BG:103:PHE:HD1	44:BG:147:SER:OG	2.05	0.40
44:BG:268:MET:HB2	44:BG:379:SER:O	2.21	0.40
44:BG:329:ASN:C	44:BG:329:ASN:HD22	2.22	0.40
44:BK:60:LYS:HD3	44:CK:283:HIS:HE2	1.86	0.40
44:BK:84:ARG:H	44:BK:84:ARG:HG2	1.75	0.40
44:BK:288:VAL:CG1	44:BK:327:ASP:HB3	2.49	0.40
44:BM:52:PHE:CZ	44:BM:239:THR:HG21	2.55	0.40
44:BM:145:THR:HG23	44:BM:146:GLY:N	2.36	0.40
44:BM:176:GLN:HG3	45:BN:331:LEU:HD21	2.03	0.40
44:BM:252:ILE:HG12	44:BM:255:PHE:CE2	2.55	0.40
44:BM:402:ARG:HG3	44:BM:402:ARG:O	2.21	0.40
45:BN:7:ILE:HD11	45:BN:120:VAL:HG22	2.02	0.40
45:BN:69:GLU:OE2	45:BN:72:THR:HB	2.21	0.40
45:BN:169:VAL:HA	45:BN:202:ILE:O	2.21	0.40
45:CB:166:THR:HG21	45:CB:196:ALA:CB	2.51	0.40
44:CC:183:GLU:HG2	44:CC:184:PRO:N	2.35	0.40
45:CD:211:CYS:O	45:CD:215:LEU:HB2	2.20	0.40
45:CD:260:PHE:HA	44:CE:406:HIS:CE1	2.56	0.40
44:CE:6:SER:C	44:CE:7:ILE:HD13	2.40	0.40
44:CE:14:ILE:HD12	44:CE:14:ILE:H	1.86	0.40
44:CE:17:GLY:HA2	44:CE:20:CYS:SG	2.61	0.40
44:CE:121:ARG:NH1	44:CE:124:LYS:HD2	2.36	0.40
44:CE:278:ALA:HA	44:CE:369:ALA:CB	2.52	0.40
45:CF:17:GLY:O	45:CF:21:TRP:CD1	2.74	0.40
45:CF:139:LEU:HD21	45:CF:188:SER:OG	2.21	0.40
45:CF:258:ILE:HD13	45:CF:266:PHE:CZ	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CI:60:LYS:HE3	44:CI:60:LYS:HB2	1.85	0.40
44:CI:103:PHE:HD1	44:CI:147:SER:OG	2.01	0.40
44:CI:112:LYS:O	44:CI:115:VAL:HG12	2.21	0.40
44:CI:183:GLU:CG	44:CI:184:PRO:HD3	2.49	0.40
44:CI:194:LEU:HD12	44:CI:195:LEU:N	2.35	0.40
44:CI:215:ARG:HH11	44:CI:215:ARG:HG2	1.86	0.40
44:CI:288:VAL:O	44:CI:291:ILE:HG13	2.20	0.40
45:CJ:116:VAL:HA	45:CJ:119:VAL:CG1	2.50	0.40
44:CK:132:LEU:HD23	44:CK:132:LEU:N	2.36	0.40
44:CK:183:GLU:HA	44:CK:186:ASN:OD1	2.21	0.40
45:CL:228:LEU:O	45:CL:231:ALA:HB3	2.20	0.40
45:CL:267:MET:O	45:CL:368:VAL:CA	2.69	0.40
45:CL:304:ASP:HB3	45:CL:307:HIS:ND1	2.36	0.40
45:CL:344:TRP:CE3	45:CL:345:ILE:HB	2.56	0.40
44:CM:63:PRO:HG2	44:CM:91:GLN:HE22	1.85	0.40
44:CM:326:LYS:HE2	45:CN:219:THR:CG2	2.49	0.40
45:CN:287:PRO:HA	45:CN:290:THR:HG22	2.04	0.40
44:DA:1:MET:HE1	45:DB:94:GLN:HG2	2.03	0.40
44:DA:99:ALA:HB2	44:DA:145:THR:HB	2.00	0.40
44:DA:112:LYS:O	44:DA:115:VAL:HG12	2.21	0.40
45:DB:251:ARG:NH2	44:DC:105:ARG:NH1	2.69	0.40
44:DC:350:GLY:C	45:DD:179:VAL:HG12	2.41	0.40
45:DD:130:LEU:HD12	45:DD:130:LEU:HA	1.92	0.40
44:DE:21:TRP:O	44:DE:25:CYS:N	2.51	0.40
44:DE:210:TYR:HE1	44:DE:227:LEU:CD1	2.34	0.40
44:DE:302:MET:CE	44:DE:302:MET:CA	2.99	0.40
45:DF:15:GLN:O	45:DF:18:ALA:HB3	2.21	0.40
45:DF:133:PHE:O	45:DF:164:MET:HA	2.21	0.40
45:DF:238:CYS:SG	45:DF:239:CYS:N	2.95	0.40
45:DF:293:MET:CE	45:DF:367:PHE:HD1	2.33	0.40
44:DG:93:ILE:HD12	44:DG:93:ILE:H	1.86	0.40
44:DI:145:THR:HG23	44:DI:146:GLY:N	2.36	0.40
44:DI:352:LYS:CD	45:DJ:178:THR:HA	2.52	0.40
45:DJ:180:VAL:C	45:DJ:182:PRO:HD2	2.41	0.40
44:DK:184:PRO:O	44:DK:187:SER:HB2	2.21	0.40
44:DK:195:LEU:CD1	44:DK:264:ARG:HH22	2.34	0.40
44:DK:228:ASN:O	44:DK:231:ILE:HG22	2.21	0.40
44:DK:284:GLU:O	44:DK:286:LEU:HD23	2.21	0.40
44:DK:401:LYS:O	44:DK:402:ARG:HG2	2.21	0.40
45:DL:83:GLN:HA	45:DL:83:GLN:OE1	2.21	0.40
45:DL:302:ALA:HB3	45:DL:377:MET:HE3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:320:ARG:HG2	45:DL:320:ARG:HH11	1.86	0.40
44:DM:63:PRO:HG2	44:DM:86:LEU:CG	2.39	0.40
44:DM:65:ALA:HB3	44:DM:87:PHE:CE1	2.54	0.40
44:DM:276:ILE:CG2	44:DM:281:ALA:HB2	2.50	0.40
45:DN:106:TYR:OH	45:DN:407:GLU:OE1	2.33	0.40
44:EA:20:CYS:HA	44:EA:232:ALA:CB	2.50	0.40
44:EA:101:ASN:HA	44:EA:144:GLY:H	1.85	0.40
44:EA:126:ALA:O	44:EA:129:CYS:HB2	2.20	0.40
44:EA:353:VAL:HG11	45:EB:177:ASP:OD2	2.20	0.40
45:EB:161:ASP:OD1	45:EB:162:ARG:N	2.53	0.40
45:EB:263:LEU:HD12	45:EB:263:LEU:N	2.36	0.40
44:EC:105:ARG:O	44:EC:110:ILE:HG12	2.22	0.40
45:ED:10:GLY:HA2	45:ED:67:ASP:CG	2.41	0.40
45:ED:101:TRP:NE1	45:ED:146:GLY:HA2	2.36	0.40
45:ED:287:PRO:HD3	45:ED:325:GLU:OE1	2.20	0.40
45:ED:322:SER:OG	44:EE:221:ARG:HD2	2.21	0.40
44:EE:216:ASN:ND2	44:EE:275:ILE:O	2.51	0.40
44:EE:346:TRP:CE3	44:EE:347:CYS:HB2	2.56	0.40
44:EE:390:ARG:HG3	44:EE:391:LEU:N	2.36	0.40
45:EF:65:LEU:HD11	45:EF:85:PHE:CE2	2.57	0.40
44:EG:91:GLN:HA	44:EG:121:ARG:NH2	2.32	0.40
44:EG:180:ALA:HB3	44:EG:183:GLU:HB3	2.01	0.40
44:EG:276:ILE:O	44:EG:276:ILE:HG23	2.21	0.40
45:EH:173:PRO:HD3	45:EH:380:ARG:HD3	2.04	0.40
45:EH:203:ASP:HB2	45:EH:302:ALA:N	2.36	0.40
45:EH:374:ILE:HD11	45:EH:422:TYR:OH	2.21	0.40
44:EI:166:LYS:O	44:EI:199:ASP:HB2	2.21	0.40
44:EI:216:ASN:HB3	44:EI:275:ILE:O	2.21	0.40
45:EJ:105:HIS:ND1	45:EJ:106:TYR:CE1	2.89	0.40
44:EK:188:ILE:O	44:EK:191:THR:HB	2.21	0.40
45:EL:133:PHE:N	45:EL:164:MET:HE2	2.29	0.40
45:EL:151:LEU:O	45:EL:155:VAL:HG23	2.21	0.40
45:EL:177:ASP:HB2	48:EL:501:GDP:O3'	2.21	0.40
45:EL:268:ILE:O	45:EL:268:ILE:HG13	2.21	0.40
45:EL:302:ALA:C	45:EL:377:MET:HE1	2.41	0.40
45:EL:312:THR:CA	45:EL:348:ASN:HB2	2.47	0.40
44:EM:14:ILE:HD11	44:EM:69:ASP:CB	2.51	0.40
44:EM:189:LEU:HD11	44:EM:418:PHE:CE1	2.57	0.40
44:EM:422:ARG:O	44:EM:426:ALA:HB2	2.21	0.40
45:EN:20:PHE:CD1	45:EN:233:MET:SD	3.14	0.40
45:EN:103:LYS:HG3	45:EN:108:GLU:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FA:328:VAL:HG11	44:FA:353:VAL:HG21	2.03	0.40
45:FB:201:VAL:O	45:FB:201:VAL:HG23	2.21	0.40
45:FB:237:THR:O	45:FB:240:LEU:N	2.54	0.40
44:FC:224:TYR:CG	46:FC:501:GTP:C6	3.09	0.40
44:FC:305:CYS:SG	44:FC:306:ASP:N	2.95	0.40
45:FD:226:ASN:O	45:FD:229:VAL:HB	2.21	0.40
45:FD:398:TYR:HB3	45:FD:403:MET:HG2	2.03	0.40
44:FE:66:VAL:HG23	44:FE:121:ARG:HG2	2.01	0.40
45:FF:263:LEU:HG	45:FF:422:TYR:HD1	1.86	0.40
44:FG:63:PRO:HG2	44:FG:86:LEU:HG	2.03	0.40
44:FG:106:GLY:O	44:FG:148:GLY:HA3	2.21	0.40
45:FH:34:GLY:O	45:FH:58:ARG:HA	2.21	0.40
45:FH:263:LEU:HD23	45:FH:422:TYR:CE1	2.56	0.40
45:FH:324:LYS:O	45:FH:325:GLU:CB	2.69	0.40
45:FH:403:MET:HG3	45:FH:407:GLU:OE2	2.21	0.40
44:FI:271:SER:OG	44:FI:301:MET:HE1	2.21	0.40
44:FI:356:ASN:OD1	44:FI:357:TYR:N	2.54	0.40
45:FJ:112:LEU:HD23	45:FJ:112:LEU:C	2.42	0.40
44:FK:291:ILE:O	44:FK:295:ALA:HB2	2.20	0.40
44:FK:310:GLY:CA	44:FK:383:ALA:HB2	2.42	0.40
45:FL:131:GLN:O	45:FL:131:GLN:HG3	2.21	0.40
45:FL:268:ILE:HG22	45:FL:368:VAL:HG22	2.03	0.40
45:FL:367:PHE:CZ	45:FL:369:GLY:HA3	2.56	0.40
44:FM:114:ILE:O	44:FM:114:ILE:HG22	2.20	0.40
44:FM:171:ILE:HG23	44:FM:205:ASP:CA	2.51	0.40
44:GA:124:LYS:HE2	44:GA:124:LYS:HB2	1.88	0.40
44:GA:158:SER:HB2	44:GA:166:LYS:HE3	2.04	0.40
44:GC:56:THR:HG23	44:GC:58:ALA:N	2.29	0.40
44:GE:149:LEU:O	44:GE:153:LEU:HB2	2.21	0.40
45:GF:271:ALA:HB1	45:GF:272:PRO:HA	2.03	0.40
44:GG:89:PRO:HB3	44:GG:280:LYS:HE3	2.02	0.40
44:GG:174:SER:HB3	44:GG:175:PRO:CD	2.51	0.40
44:GG:220:GLU:HB3	44:GG:221:ARG:HH11	1.86	0.40
44:GG:231:ILE:O	44:GG:234:VAL:HB	2.20	0.40
44:GG:269:LEU:HD23	44:GG:269:LEU:N	2.34	0.40
45:GH:49:VAL:HG11	45:GH:241:ARG:CG	2.50	0.40
45:GJ:167:PHE:CD2	45:GJ:233:MET:CE	3.04	0.40
45:GJ:295:ASP:OD1	45:GJ:296:ALA:N	2.54	0.40
44:GK:132:LEU:HD11	44:GK:135:PHE:CZ	2.56	0.40
44:GK:437:ILE:O	44:GK:437:ILE:HG13	2.21	0.40
45:GL:267:MET:SD	45:GL:299:MET:CE	3.07	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:GM:296:PHE:CE2	44:GM:335:ILE:HG13	2.56	0.40
44:GM:317:MET:HE1	44:GM:319:TYR:OH	2.20	0.40
45:GN:393:ALA:O	45:GN:394:PHE:HB2	2.21	0.40
45:HB:180:VAL:HG23	45:HB:183:TYR:HD2	1.86	0.40
44:HC:101:ASN:HA	44:HC:144:GLY:CA	2.50	0.40
44:HE:101:ASN:CA	44:HE:144:GLY:HA3	2.51	0.40
45:HF:2:ARG:C	45:HF:131:GLN:HG2	2.42	0.40
44:HG:259:LEU:HD23	44:HG:380:ASN:ND2	2.36	0.40
44:HG:262:TYR:HB3	44:HG:263:PRO:HD2	2.02	0.40
45:HH:398:TYR:HD1	45:HH:403:MET:CE	2.34	0.40
45:HH:416:ASN:O	45:HH:419:VAL:HG12	2.20	0.40
44:HI:140:SER:CB	46:HI:501:GTP:O1A	2.68	0.40
44:HI:185:TYR:OH	44:HI:398:MET:HB3	2.21	0.40
44:HI:288:VAL:O	44:HI:291:ILE:HG12	2.20	0.40
44:HI:327:ASP:HA	44:HI:330:ALA:HB3	2.03	0.40
44:HK:287:SER:HB3	44:HK:290:GLU:HG2	2.03	0.40
45:HL:169:VAL:HA	45:HL:202:ILE:O	2.21	0.40
45:HL:258:ILE:CG1	45:HL:266:PHE:HZ	2.35	0.40
45:HL:263:LEU:HD23	45:HL:422:TYR:CE1	2.56	0.40
44:HM:105:ARG:HA	44:HM:109:THR:CB	2.47	0.40
44:HM:194:LEU:HD12	44:HM:194:LEU:C	2.42	0.40
45:HN:86:ARG:HH21	45:HN:87:PRO:HG2	1.84	0.40
44:IA:193:SER:O	44:IA:197:HIS:HB2	2.21	0.40
44:IA:203:MET:SD	44:IA:384:ILE:HD11	2.60	0.40
44:IA:280:LYS:HA	44:IA:283:HIS:CD2	2.56	0.40
44:IA:288:VAL:C	44:IA:291:ILE:HG12	2.41	0.40
45:IB:28:HIS:NE2	45:IB:47:ILE:HD13	2.35	0.40
45:IB:222:TYR:CD1	45:IB:225:LEU:HD12	2.55	0.40
45:IB:272:PRO:HD3	45:IB:289:LEU:HD22	2.02	0.40
44:IC:79:ARG:CG	44:IC:92:LEU:HD22	2.50	0.40
44:IC:174:SER:HB2	44:IC:177:VAL:O	2.20	0.40
45:ID:8:GLN:HE21	45:ID:14:ASN:CA	2.34	0.40
44:IE:18:ASN:O	44:IE:22:GLU:OE1	2.38	0.40
44:IE:73:THR:CA	45:IF:46:ARG:HH21	2.34	0.40
44:IE:387:VAL:HG23	44:IE:388:PHE:N	2.36	0.40
45:IF:116:VAL:HG13	45:IF:117:LEU:N	2.37	0.40
45:IF:152:ILE:HA	45:IF:155:VAL:HG22	2.01	0.40
44:IG:215:ARG:NH1	44:IG:299:ALA:HB1	2.37	0.40
44:IG:319:TYR:HA	44:IG:375:VAL:HG23	2.02	0.40
45:IH:286:VAL:HB	45:IH:325:GLU:OE1	2.21	0.40
45:IJ:86:ARG:HD2	44:JG:283:HIS:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IJ:112:LEU:HD12	45:IJ:112:LEU:HA	1.89	0.40
45:IJ:139:LEU:HD21	45:IJ:168:SER:OG	2.20	0.40
44:IK:353:VAL:O	44:IK:353:VAL:HG13	2.22	0.40
45:IL:109:GLY:O	45:IL:113:ILE:N	2.54	0.40
45:IL:152:ILE:CD1	45:IL:164:MET:HE3	2.51	0.40
45:IL:285:THR:O	45:IL:288:GLU:N	2.47	0.40
44:IM:63:PRO:HD2	44:IM:86:LEU:O	2.21	0.40
45:IN:22:GLU:CB	45:IN:81:PHE:CD2	3.04	0.40
45:IN:306:ARG:HG3	45:IN:306:ARG:HH11	1.85	0.40
44:JA:184:PRO:HA	44:JA:187:SER:OG	2.21	0.40
44:JA:229:ARG:HH11	44:JA:229:ARG:HG2	1.85	0.40
45:JB:207:LEU:CB	45:JB:225:LEU:HD22	2.40	0.40
45:JB:387:ALA:HA	45:JB:390:ARG:NH2	2.36	0.40
44:JC:311:LYS:HD2	44:JC:342:GLN:HG2	2.02	0.40
44:JC:348:PRO:HG2	45:JF:384:GLN:OE1	2.20	0.40
45:JD:263:LEU:HD12	45:JD:263:LEU:N	2.36	0.40
45:JD:374:ILE:O	45:JD:374:ILE:HG22	2.21	0.40
44:JE:31:GLN:HA	44:JE:31:GLN:OE1	2.21	0.40
44:JE:269:LEU:CD1	44:JE:305:CYS:HB3	2.51	0.40
44:JE:430:LYS:HD2	44:JE:433:GLU:OE2	2.22	0.40
45:JF:325:GLU:O	45:JF:329:GLN:HG2	2.21	0.40
45:JF:325:GLU:CA	45:JF:328:GLU:HG2	2.51	0.40
44:JG:60:LYS:HB2	44:JG:60:LYS:HE3	1.93	0.40
44:JG:229:ARG:HE	44:JG:229:ARG:HB2	1.60	0.40
44:JG:229:ARG:HH12	44:JG:363:VAL:HG11	1.85	0.40
45:JJ:36:TYR:CE1	45:JJ:38:GLY:N	2.89	0.40
44:JK:158:SER:O	44:JK:162:GLY:HA2	2.20	0.40
44:JK:423:GLU:HB3	44:NK:339:ARG:CZ	2.51	0.40
45:JL:73:MET:HE3	45:JL:92:PHE:CG	2.57	0.40
45:JN:145:SER:O	45:JN:149:THR:HG22	2.20	0.40
45:JN:206:ALA:HB1	45:JN:210:ILE:HD11	2.03	0.40
44:KA:66:VAL:CG2	44:KA:122:ILE:HD11	2.50	0.40
45:KB:207:LEU:HD12	45:KB:225:LEU:HG	2.03	0.40
45:KB:405:GLU:OE2	45:KB:409:THR:OG1	2.38	0.40
45:KD:58:ARG:C	45:KD:59:TYR:HD1	2.23	0.40
45:KD:202:ILE:CG2	45:KD:207:LEU:HD21	2.52	0.40
44:KE:236:SER:O	44:KE:240:ALA:HB2	2.21	0.40
44:KE:265:ILE:HD11	44:KE:431:ASP:HB2	2.02	0.40
45:KF:166:THR:HG21	45:KF:192:LEU:HD21	2.02	0.40
45:KF:207:LEU:HD23	45:KF:207:LEU:HA	1.89	0.40
44:KG:250:VAL:CG1	44:KG:255:PHE:HE1	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:276:ILE:HD11	44:KG:280:LYS:HB3	2.03	0.40
45:KH:285:THR:O	45:KH:289:LEU:HD23	2.21	0.40
45:KH:320:ARG:HG3	45:KH:320:ARG:O	2.21	0.40
44:KI:212:ILE:HG23	44:KI:213:CYS:N	2.36	0.40
45:KJ:251:ARG:O	45:KJ:254:ALA:N	2.54	0.40
45:KJ:295:ASP:OD1	45:KJ:296:ALA:N	2.54	0.40
45:KJ:296:ALA:HB1	45:KJ:305:PRO:HD2	2.01	0.40
45:KJ:349:ILE:O	45:KJ:349:ILE:HG13	2.20	0.40
44:KK:52:PHE:O	44:KK:64:ARG:HG2	2.21	0.40
45:KL:213:ARG:CZ	45:KL:297:LYS:CE	2.99	0.40
44:KM:156:ARG:O	44:KM:160:ASP:N	2.50	0.40
45:KN:7:ILE:HD11	45:KN:120:VAL:HG23	2.03	0.40
44:LA:14:ILE:HD12	44:LA:74:VAL:CG2	2.51	0.40
44:LA:96:LYS:HE2	44:LA:96:LYS:HA	2.02	0.40
44:LA:145:THR:HG23	44:LA:146:GLY:N	2.36	0.40
44:LA:402:ARG:HB3	44:LA:405:VAL:HG11	2.03	0.40
45:LB:207:LEU:O	45:LB:210:ILE:HB	2.21	0.40
44:LC:239:THR:O	44:LC:239:THR:HG22	2.21	0.40
45:LD:335:ASN:OD1	45:LD:335:ASN:C	2.60	0.40
44:LE:191:THR:HA	44:LE:194:LEU:HG	2.02	0.40
45:LF:207:LEU:HD21	45:LF:300:MET:SD	2.61	0.40
44:LG:31:GLN:NE2	44:LG:35:GLN:HB2	2.35	0.40
44:LG:262:TYR:HB3	44:LG:263:PRO:CD	2.40	0.40
45:LH:267:MET:HE1	45:LH:301:CYS:HB2	2.03	0.40
44:LI:73:THR:OG1	45:LJ:247:ASN:ND2	2.55	0.40
44:LI:177:VAL:O	44:LI:177:VAL:HG13	2.21	0.40
44:LI:311:LYS:CB	44:LI:344:VAL:HG22	2.51	0.40
45:LJ:20:PHE:HB2	45:LJ:233:MET:HE3	2.03	0.40
44:LK:196:GLU:N	44:LK:196:GLU:OE2	2.54	0.40
44:LM:54:SER:CB	44:LM:64:ARG:HH22	2.19	0.40
44:MA:276:ILE:HG12	44:MA:281:ALA:CB	2.50	0.40
45:MB:161:ASP:CG	45:MB:162:ARG:HH11	2.19	0.40
44:MC:46:ASP:N	44:MC:46:ASP:OD1	2.53	0.40
44:MC:229:ARG:NH2	44:MC:363:VAL:HG11	2.36	0.40
45:MD:187:LEU:HD11	45:MD:408:PHE:CE1	2.47	0.40
45:MD:225:LEU:HD23	45:MD:225:LEU:HA	1.80	0.40
44:ME:31:GLN:HB2	44:ME:35:GLN:O	2.21	0.40
45:MF:36:TYR:CZ	45:MF:44:LEU:HD11	2.56	0.40
44:MG:68:LEU:HD21	44:MG:153:LEU:HD11	2.03	0.40
44:MG:177:VAL:O	44:MG:177:VAL:HG13	2.21	0.40
44:MI:329:ASN:HD21	45:ML:174:LYS:HZ3	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MK:183:GLU:CD	44:MK:184:PRO:HD3	2.42	0.40
45:ML:253:LEU:O	45:ML:257:LEU:HD13	2.21	0.40
45:ML:286:VAL:CB	45:ML:325:GLU:HG2	2.50	0.40
45:ML:391:ARG:HA	45:ML:391:ARG:HD2	1.77	0.40
45:MN:155:VAL:HG23	45:MN:156:ARG:N	2.35	0.40
45:MN:304:ASP:OD1	45:MN:306:ARG:HG2	2.21	0.40
44:NA:264:ARG:HH11	44:NA:264:ARG:HG2	1.86	0.40
44:NA:292:THR:HG21	44:NA:331:SER:HB3	2.02	0.40
45:NB:52:ASN:O	45:NB:60:VAL:HG12	2.21	0.40
45:NB:139:LEU:HA	45:NB:145:SER:CB	2.46	0.40
45:NB:180:VAL:O	45:NB:183:TYR:HB2	2.21	0.40
45:NB:311:LEU:HD22	45:NB:342:VAL:HG11	2.02	0.40
45:NB:350:LYS:HG2	45:NB:351:SER:N	2.36	0.40
45:ND:112:LEU:O	45:ND:112:LEU:HD23	2.22	0.40
45:ND:137:HIS:CE1	45:ND:139:LEU:HD11	2.56	0.40
45:ND:175:VAL:O	45:ND:175:VAL:HG23	2.21	0.40
44:NE:313:MET:HE1	44:NE:382:THR:N	2.35	0.40
44:NE:326:LYS:HG3	44:NE:327:ASP:H	1.85	0.40
44:NE:431:ASP:HA	44:NE:434:GLU:HG2	2.02	0.40
44:NG:413:MET:HG2	44:NG:417:GLU:OE2	2.21	0.40
45:NH:1:MET:O	45:NH:2:ARG:CG	2.69	0.40
45:NH:34:GLY:O	45:NH:58:ARG:HG3	2.21	0.40
44:NI:191:THR:HG21	44:NI:388:PHE:CE1	2.56	0.40
45:NJ:202:ILE:HD11	45:NJ:268:ILE:CG1	2.50	0.40
45:NJ:228:LEU:HD11	45:NJ:273:LEU:HD13	2.03	0.40
45:NJ:237:THR:HG22	45:NJ:250:LEU:HD21	2.03	0.40
44:NK:112:LYS:HA	44:NK:115:VAL:HG12	2.02	0.40
44:NK:332:ILE:HD12	44:NK:351:PHE:CE2	2.56	0.40
45:NL:15:GLN:O	45:NL:18:ALA:N	2.54	0.40
44:NM:93:ILE:H	44:NM:93:ILE:HD12	1.86	0.40
44:NM:99:ALA:O	44:NM:102:ASN:CG	2.60	0.40
44:NM:414:GLU:HG2	44:NM:415:GLU:N	2.35	0.40
44:OA:320:ARG:O	44:OA:374:ALA:HB3	2.20	0.40
44:OC:309:HIS:C	44:OC:383:ALA:HB2	2.42	0.40
45:OD:104:GLY:HA2	45:OD:108:GLU:OE2	2.21	0.40
44:OE:3:GLU:HG3	44:OE:129:CYS:HB3	2.02	0.40
44:OE:115:VAL:O	44:OE:118:CYS:N	2.54	0.40
45:OF:46:ARG:HG3	45:OF:241:ARG:C	2.42	0.40
45:OF:101:TRP:HD1	45:OF:145:SER:HB3	1.86	0.40
45:OH:342:VAL:CG1	45:OH:345:ILE:HG12	2.49	0.40
44:OI:110:ILE:O	44:OI:110:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:OI:149:LEU:O	44:OI:153:LEU:HD13	2.21	0.40
44:OI:169:PHE:HB3	44:OI:204:LEU:CD1	2.52	0.40
44:OI:237:SER:CB	44:OI:320:ARG:HD2	2.50	0.40
44:OI:310:GLY:HA3	44:OI:383:ALA:N	2.36	0.40
45:OJ:47:ILE:HD13	45:OJ:59:TYR:HE2	1.86	0.40
45:OJ:274:THR:HG23	45:OJ:279:GLN:CG	2.51	0.40
45:OJ:407:GLU:H	45:OJ:407:GLU:CD	2.24	0.40
45:OL:170:VAL:HG22	45:OL:171:PRO:HD2	2.02	0.40
45:OL:259:PRO:CG	45:OL:311:LEU:HD12	2.51	0.40
44:OM:426:ALA:O	44:OM:430:LYS:HG2	2.21	0.40
45:ON:294:PHE:CZ	45:ON:333:VAL:HG11	2.56	0.40
45:ON:376:GLU:O	45:ON:380:ARG:HG2	2.21	0.40
44:PA:49:PHE:CD1	44:PA:61:HIS:HD2	2.39	0.40
44:PA:72:PRO:HA	44:PA:94:SER:OG	2.21	0.40
45:PB:149:THR:OG1	45:PB:191:GLN:HB3	2.20	0.40
44:PC:71:GLU:OE1	44:PC:73:THR:HB	2.20	0.40
44:PC:72:PRO:HB3	44:PC:94:SER:OG	2.21	0.40
44:PC:104:ALA:HA	44:PC:413:MET:CE	2.51	0.40
44:PC:169:PHE:HD1	44:PC:202:VAL:HB	1.86	0.40
45:PD:51:TYR:CD1	45:PD:59:TYR:HB3	2.55	0.40
45:PD:150:LEU:O	45:PD:154:LYS:NZ	2.54	0.40
45:PD:167:PHE:HB3	45:PD:202:ILE:CD1	2.49	0.40
45:PD:397:TRP:O	45:PD:400:GLY:N	2.55	0.40
44:PE:269:LEU:HD23	44:PE:303:ALA:CB	2.51	0.40
45:PF:309:ARG:HD3	45:PF:340:TYR:HA	2.03	0.40
45:PF:391:ARG:HG3	45:PF:391:ARG:NH1	2.36	0.40
44:PG:210:TYR:CE1	45:PH:324:LYS:HB2	2.56	0.40
45:PH:239:CYS:SG	45:PH:248:SER:N	2.88	0.40
45:PH:314:SER:N	45:PH:368:VAL:O	2.44	0.40
44:PI:269:LEU:HG	44:PI:269:LEU:O	2.21	0.40
44:PK:105:ARG:CZ	44:PK:411:GLU:HG3	2.51	0.40
45:PL:159:TYR:HB3	45:PL:162:ARG:HG2	2.02	0.40
44:PM:192:HIS:NE2	44:PM:420:GLU:HG3	2.36	0.40
44:PM:235:ILE:O	44:PM:238:LEU:N	2.54	0.40
45:PN:304:ASP:OD1	45:PN:304:ASP:C	2.59	0.40
44:QA:209:ILE:CG1	44:QA:302:MET:HE3	2.50	0.40
45:QB:159:TYR:HB3	45:QB:162:ARG:CG	2.51	0.40
45:QB:256:ASN:C	45:QB:257:LEU:HD12	2.42	0.40
44:QC:214:ARG:HG2	44:QC:214:ARG:HH11	1.85	0.40
44:QC:246:GLY:HA2	44:QC:356:ASN:HA	2.02	0.40
44:QC:258:ASN:O	45:QD:179:VAL:HG21	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QC:428:LEU:O	44:QC:432:TYR:HD1	2.03	0.40
45:QD:113:ILE:HA	45:QD:116:VAL:HG12	2.03	0.40
44:QE:11:GLN:HG3	46:QE:501:GTP:O2B	2.21	0.40
44:QE:22:GLU:O	44:QE:25:CYS:N	2.54	0.40
44:QE:349:THR:HG23	45:QF:179:VAL:HA	2.03	0.40
45:QF:86:ARG:HH12	45:RF:278:SER:HA	1.86	0.40
45:QF:321:MET:SD	45:QF:353:ILE:HG23	2.62	0.40
44:QG:183:GLU:CD	44:QG:184:PRO:HD3	2.41	0.40
44:QG:349:THR:HG21	45:QH:176:SER:HB2	2.04	0.40
44:QI:344:VAL:HG21	44:QI:346:TRP:CZ2	2.56	0.40
45:QJ:321:MET:HB3	45:QJ:363:MET:HE1	2.02	0.40
44:QK:31:GLN:HB3	44:QK:32:PRO:HD2	2.03	0.40
44:QK:49:PHE:CD2	44:QK:61:HIS:CD2	3.09	0.40
44:QK:188:ILE:HD12	44:QK:425:LEU:CD1	2.50	0.40
45:QL:170:VAL:HG22	45:QL:202:ILE:O	2.21	0.40
45:QL:181:GLU:HA	45:QL:184:ASN:OD1	2.21	0.40
44:QM:6:SER:C	44:QM:7:ILE:HD13	2.42	0.40
44:QM:217:LEU:HD22	44:QM:367:ASP:HB3	2.02	0.40
45:QN:51:TYR:HA	45:QN:60:VAL:O	2.21	0.40
45:QN:152:ILE:CG2	45:QN:195:ASN:HB2	2.44	0.40
45:RB:4:ILE:CG2	45:RB:131:GLN:HB3	2.51	0.40
45:RB:206:ALA:O	45:RB:209:ASP:N	2.54	0.40
45:RB:256:ASN:CB	44:RC:181:VAL:HG12	2.46	0.40
44:RC:306:ASP:OD2	44:RC:309:HIS:N	2.54	0.40
44:RC:326:LYS:HE3	44:RC:327:ASP:OD2	2.20	0.40
45:RD:73:MET:HA	45:RD:76:VAL:CG1	2.44	0.40
45:RD:222:TYR:O	45:RD:225:LEU:HB2	2.21	0.40
45:RD:234:SER:HA	45:RD:237:THR:CG2	2.51	0.40
45:RF:246:LEU:HD11	44:RG:224:TYR:CE2	2.56	0.40
45:RF:251:ARG:HD3	44:RG:97:GLU:OE2	2.21	0.40
45:RF:256:ASN:C	45:RF:257:LEU:HD12	2.41	0.40
44:RG:87:PHE:HB3	44:RG:92:LEU:HD11	2.03	0.40
44:RG:387:VAL:HG12	44:RG:390:ARG:NH1	2.36	0.40
44:RG:387:VAL:HG12	44:RG:390:ARG:HH12	1.86	0.40
45:RH:310:TYR:HD2	45:RH:340:TYR:O	2.04	0.40
44:RI:206:ASN:HA	44:RI:209:ILE:HD12	2.03	0.40
45:RJ:275:SER:OG	45:RJ:278:SER:OG	2.02	0.40
45:RL:73:MET:HE1	45:RL:91:VAL:O	2.21	0.40
45:RL:170:VAL:O	45:RL:170:VAL:HG23	2.20	0.40
45:RL:326:VAL:O	45:RL:329:GLN:HB2	2.21	0.40
44:RM:371:VAL:HG22	44:RM:372:MET:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RN:268:ILE:CB	45:RN:368:VAL:HG22	2.52	0.40
45:RN:312:THR:HG22	45:RN:370:ASN:HB3	2.02	0.40
44:SA:88:HIS:HB3	44:SA:91:GLN:CG	2.46	0.40
44:SA:271:SER:HB3	44:SA:301:MET:HE1	2.03	0.40
44:SA:340:THR:HG23	44:SA:341:ILE:HG13	2.02	0.40
45:SB:83:GLN:OE1	45:SB:83:GLN:HA	2.20	0.40
45:SB:172:SER:HB2	45:SB:205:GLU:OE1	2.20	0.40
45:SB:229:VAL:HG12	45:SB:233:MET:HE1	2.02	0.40
45:SB:333:VAL:O	45:SB:333:VAL:HG22	2.21	0.40
45:SB:391:ARG:HA	45:SB:391:ARG:HD2	1.93	0.40
44:SC:55:GLU:OE1	44:SC:55:GLU:HA	2.20	0.40
44:SC:182:VAL:HG21	44:SC:408:TYR:OH	2.21	0.40
44:SC:270:SER:O	44:SC:301:MET:CE	2.70	0.40
44:SC:349:THR:O	45:SD:179:VAL:HG13	2.22	0.40
44:SC:405:VAL:CG1	44:SC:409:VAL:HG23	2.51	0.40
45:SD:12:CYS:HB2	48:SD:501:GDP:C4	2.56	0.40
45:SD:21:TRP:HH2	45:SD:63:ALA:HB2	1.80	0.40
45:SD:49:VAL:O	45:SD:50:TYR:HD1	2.05	0.40
45:SD:72:THR:O	45:SD:76:VAL:HG13	2.21	0.40
45:SD:250:LEU:HD13	45:SD:250:LEU:HA	1.91	0.40
44:SE:296:PHE:CE2	44:SE:335:ILE:HG21	2.57	0.40
45:SF:252:LYS:HG2	45:SF:350:LYS:NZ	2.36	0.40
45:SF:252:LYS:CG	45:SF:350:LYS:HZ3	2.34	0.40
45:SF:268:ILE:HA	45:SF:367:PHE:O	2.21	0.40
44:SG:137:VAL:N	44:SG:167:LEU:O	2.47	0.40
44:SG:344:VAL:HG22	44:SG:345:ASP:N	2.36	0.40
45:SH:396:HIS:O	45:SH:399:THR:HG22	2.21	0.40
45:SJ:223:GLY:O	45:SJ:226:ASN:HB2	2.21	0.40
44:SK:247:ALA:HB2	44:SK:357:TYR:CZ	2.56	0.40
45:SL:54:ALA:HB1	45:TL:283:ALA:HB2	2.01	0.40
44:SM:319:TYR:HB3	44:SM:323:VAL:HG11	2.03	0.40
45:SN:100:ASN:C	45:SN:142:GLY:HA3	2.42	0.40
44:TA:78:VAL:HB	44:TA:92:LEU:CD2	2.51	0.40
46:TA:501:GTP:O2A	46:TA:501:GTP:C8	2.74	0.40
45:TB:272:PRO:HD3	45:TB:364:ALA:HA	2.02	0.40
45:TB:313:ALA:O	45:TB:349:ILE:HG23	2.21	0.40
44:TC:66:VAL:HG22	44:TC:68:LEU:HD12	2.02	0.40
45:TD:273:LEU:HG	45:TD:292:GLN:NE2	2.36	0.40
44:TE:290:GLU:O	44:TE:294:SER:N	2.50	0.40
45:TF:68:LEU:CD2	45:TF:97:ALA:HB2	2.51	0.40
44:TG:91:GLN:C	44:TG:93:ILE:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TG:204:LEU:HD21	44:TG:270:SER:OG	2.20	0.40
44:TG:269:LEU:HD23	44:TG:269:LEU:H	1.85	0.40
44:TG:420:GLU:C	44:TG:423:GLU:HG2	2.41	0.40
45:TH:133:PHE:O	45:TH:165:GLU:N	2.54	0.40
44:TI:402:ARG:HA	44:TI:405:VAL:HG21	2.03	0.40
45:TJ:112:LEU:O	45:TJ:116:VAL:HG12	2.21	0.40
45:TJ:243:PRO:HA	44:TK:73:THR:HG21	2.02	0.40
45:TJ:284:LEU:HB3	45:TJ:363:MET:HE2	2.02	0.40
44:TK:13:GLY:O	44:TK:16:VAL:HG12	2.21	0.40
44:TK:189:LEU:O	44:TK:192:HIS:HB3	2.21	0.40
45:TL:1:MET:HG3	45:TL:46:ARG:HH12	1.87	0.40
45:TL:392:LYS:HD2	45:TL:392:LYS:N	2.36	0.40
44:UA:30:ILE:HG23	44:UA:34:GLY:HA2	2.02	0.40
44:UA:108:TYR:HA	44:UA:112:LYS:HE3	2.03	0.40
44:UA:135:PHE:CB	44:UA:166:LYS:HG2	2.48	0.40
44:UA:176:GLN:HG2	44:UA:177:VAL:N	2.36	0.40
45:UB:68:LEU:N	45:UB:147:MET:HE1	2.36	0.40
45:UB:206:ALA:HB1	45:UB:301:CYS:HA	2.02	0.40
44:UC:5:ILE:HD12	44:UC:132:LEU:HD11	2.03	0.40
44:UC:293:ASN:O	44:UC:297:GLU:HG3	2.20	0.40
45:UD:86:ARG:HH12	45:VD:282:ARG:N	2.20	0.40
45:UD:212:PHE:CZ	45:UD:220:PRO:HG2	2.57	0.40
45:UD:282:ARG:HH22	45:UD:292:GLN:HB2	1.85	0.40
44:UE:287:SER:O	44:UE:290:GLU:HG2	2.21	0.40
45:UF:240:LEU:HD23	45:UF:240:LEU:O	2.21	0.40
45:UF:319:GLY:HA2	45:UF:357:PRO:HB3	2.02	0.40
45:UF:410:GLU:HA	45:UF:413:SER:OG	2.21	0.40
44:UG:103:PHE:CE2	44:UG:189:LEU:HD13	2.56	0.40
44:UG:123:ARG:HH12	44:VE:293:ASN:HB3	1.86	0.40
44:UG:329:ASN:ND2	45:UH:175:VAL:HG11	2.36	0.40
45:UH:143:THR:HG23	45:UH:144:GLY:N	2.35	0.40
44:UI:71:GLU:OE2	44:UI:72:PRO:HD2	2.20	0.40
45:UJ:49:VAL:CG1	45:UJ:241:ARG:HG2	2.50	0.40
45:UJ:328:GLU:HG3	45:UJ:329:GLN:N	2.36	0.40
44:UK:307:PRO:CD	44:UK:308:ARG:H	2.33	0.40
45:UL:55:THR:HG23	45:VL:282:ARG:O	2.20	0.40
44:UM:141:VAL:HG21	44:UM:172:TYR:CD1	2.56	0.40
44:UM:243:ARG:HG3	44:UM:244:PHE:CE2	2.56	0.40
45:UN:134:GLN:HA	45:UN:165:GLU:O	2.20	0.40
45:UN:151:LEU:O	45:UN:151:LEU:HD23	2.22	0.40
45:VB:101:TRP:HB3	45:VB:398:TYR:CE1	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VB:217:LEU:CD1	45:VB:220:PRO:HG3	2.51	0.40
45:VB:271:ALA:HB1	45:VB:272:PRO:CA	2.43	0.40
45:VB:421:GLU:HA	45:VB:424:GLN:HE22	1.81	0.40
44:VC:262:TYR:HB3	44:VC:263:PRO:CD	2.44	0.40
45:VD:201:VAL:HG12	45:VD:202:ILE:N	2.36	0.40
45:VD:299:MET:C	45:VD:300:MET:HE2	2.42	0.40
45:VD:304:ASP:HB3	45:VD:307:HIS:ND1	2.36	0.40
44:VE:10:GLY:HA2	46:VE:501:GTP:O1B	2.21	0.40
44:VE:101:ASN:HA	44:VE:144:GLY:N	2.36	0.40
44:VE:103:PHE:HB2	44:VE:186:ASN:HB3	2.03	0.40
45:VF:2:ARG:NH2	45:VF:240:LEU:O	2.54	0.40
45:VF:46:ARG:HB3	45:VF:49:VAL:HG23	2.03	0.40
45:VF:100:ASN:O	45:VF:101:TRP:C	2.58	0.40
45:VF:105:HIS:NE2	45:VF:150:LEU:HB2	2.36	0.40
44:VG:2:ARG:HB2	44:VG:133:GLN:HG3	2.01	0.40
44:VG:238:LEU:O	44:VG:238:LEU:HD23	2.20	0.40
44:VG:264:ARG:O	44:VG:266:HIS:HD2	2.02	0.40
45:VH:200:MET:O	45:VH:200:MET:HG3	2.21	0.40
44:VI:56:THR:HG23	44:VI:58:ALA:H	1.85	0.40
44:VI:141:VAL:CG2	44:VI:190:SER:OG	2.69	0.40
44:VI:195:LEU:HD22	44:VI:428:LEU:HD12	2.03	0.40
44:VI:324:VAL:HG12	44:VI:325:PRO:HD2	2.02	0.40
45:VJ:63:ALA:C	45:VJ:64:ILE:HD13	2.42	0.40
45:VJ:311:LEU:HB3	45:VJ:370:ASN:O	2.20	0.40
44:VK:16:VAL:HG23	44:VK:17:GLY:N	2.36	0.40
44:VK:325:PRO:HD2	44:VK:326:LYS:H	1.87	0.40
44:VK:426:ALA:O	44:VK:429:GLU:HB2	2.21	0.40
45:VL:217:LEU:CD1	45:VL:220:PRO:CA	2.99	0.40
45:VN:11:GLN:HA	45:VN:72:THR:OG1	2.21	0.40
45:VN:155:VAL:O	45:VN:159:TYR:HD1	2.04	0.40
45:VN:267:MET:O	45:VN:369:GLY:N	2.46	0.40
44:WA:101:ASN:HD22	44:WA:144:GLY:H	1.68	0.40
44:WA:183:GLU:HG2	44:WA:184:PRO:N	2.36	0.40
44:WA:217:LEU:HD13	44:WA:219:ILE:HD11	2.02	0.40
44:WA:225:THR:C	44:WA:229:ARG:HH12	2.24	0.40
45:WB:16:ILE:HD13	45:WB:226:ASN:OD1	2.22	0.40
45:WB:66:MET:HE3	45:WB:147:MET:HG3	2.01	0.40
45:WB:121:ARG:O	45:WB:125:GLU:N	2.46	0.40
45:WB:285:THR:CB	45:WB:287:PRO:HD2	2.50	0.40
45:WB:290:THR:HG23	45:WB:291:GLN:N	2.36	0.40
45:WB:391:ARG:HA	45:WB:391:ARG:HD2	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WB:403:MET:HG3	45:WB:407:GLU:OE2	2.21	0.40
45:WD:117:LEU:CD2	45:WD:121:ARG:HH12	2.34	0.40
44:WE:9:VAL:HG12	44:WE:139:ASN:HB3	2.03	0.40
44:WE:318:MET:O	44:WE:375:VAL:HA	2.21	0.40
45:WF:248:SER:HB2	45:WF:252:LYS:CB	2.51	0.40
45:WF:310:TYR:CE1	45:WF:371:SER:HB2	2.55	0.40
45:WF:315:ALA:C	45:WF:316:LEU:HD12	2.42	0.40
45:WH:240:LEU:HD12	45:WH:249:ASP:HA	2.03	0.40
44:WI:276:ILE:HG12	44:WI:281:ALA:CB	2.46	0.40
44:WI:362:VAL:O	44:WI:362:VAL:HG13	2.20	0.40
44:WK:107:HIS:O	44:WK:107:HIS:ND1	2.54	0.40
45:WL:406:MET:HA	45:WL:409:THR:OG1	2.20	0.40
44:WM:9:VAL:O	44:WM:139:ASN:HB3	2.21	0.40
45:WN:38:GLY:HA3	45:WN:43:GLN:HE22	1.86	0.40
45:WN:236:VAL:HG13	45:WN:237:THR:N	2.36	0.40
45:WN:317:PHE:HB2	45:WN:353:ILE:HG13	2.03	0.40
1:6H:344:ASN:HD22	44:FI:77:GLU:CG	2.33	0.40
3:0B:181:PRO:CB	44:JI:84:ARG:HH22	2.34	0.40
3:0B:287:ASP:HA	45:KL:276:ARG:HH12	1.86	0.40
10:0N:162:CYS:N	45:KN:276:ARG:HH21	2.19	0.40
18:1F:110:LYS:HB3	45:GJ:41:ASP:OD2	2.20	0.40
19:1I:183:ILE:HG21	45:KH:77:ARG:CZ	2.51	0.40
20:1J:216:GLN:HG2	45:IJ:279:GLN:OE1	2.21	0.40
27:1W:106:PHE:CB	45:LF:362:LYS:HZ2	2.34	0.40
2:2A:150:LEU:HA	35:5R:78:ILE:HD11	2.03	0.40
32:2I:75:SER:HB3	44:FE:123:ARG:HG3	2.03	0.40
15:2V:70:THR:HA	45:LF:121:ARG:CD	2.38	0.40
15:2V:155:TYR:HD2	44:MG:390:ARG:HB3	1.84	0.40
2:3A:74:SER:HA	44:AM:219:ILE:CG1	2.46	0.40
31:3H:200:TYR:OH	44:AG:18:ASN:HB3	2.21	0.40
11:3Q:32:GLY:O	36:5S:197:ARG:NH2	2.41	0.40
11:3Q:116:PRO:CG	44:AG:263:PRO:HG2	2.51	0.40
35:4R:471:LEU:CA	45:EF:78:ALA:HB1	2.51	0.40
37:5B:168:TRP:CZ2	44:KG:397:LEU:HD21	2.56	0.40
37:5D:59:TYR:CD2	45:KN:182:PRO:C	2.95	0.40
37:5D:118:PRO:C	44:NM:325:PRO:HD3	2.41	0.40
38:5G:31:SER:HB3	44:OG:279:GLU:OE2	2.21	0.40
38:5G:52:GLY:O	38:5G:56:VAL:HG23	2.21	0.40
38:5H:27:ARG:CZ	45:OL:320:ARG:HH22	2.34	0.40
38:5H:120:GLU:C	38:5H:122:PHE:HB2	2.42	0.40
11:5Q:11:LEU:HD23	11:5Q:12:SER:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:398:LEU:HD21	45:EJ:276:ARG:HH22	1.85	0.40
35:5R:574:ARG:O	35:5R:577:GLY:N	2.54	0.40
41:6G:268:VAL:HA	44:VA:338:LYS:CD	2.36	0.40
11:6Q:73:LEU:HD12	11:6Q:167:PHE:HD2	1.85	0.40
11:6Q:90:GLU:HG2	11:6Q:104:ARG:HH12	1.86	0.40
11:6Q:96:ASP:OD2	11:6Q:147:ASN:HB2	2.22	0.40
35:6R:28:THR:HG23	35:6R:28:THR:O	2.22	0.40
35:6R:248:TYR:OH	44:CM:359:PRO:HG3	2.21	0.40
35:6R:462:ASN:CG	45:FN:219:THR:O	2.59	0.40
35:7R:174:PHE:O	35:7R:175:GLU:CG	2.67	0.40
35:7R:256:LEU:HD11	35:7R:359:TRP:CZ3	2.55	0.40
35:7R:447:PHE:O	35:7R:451:ASP:N	2.54	0.40
35:7R:532:LEU:O	35:7R:536:ARG:HB2	2.21	0.40
35:7R:570:VAL:HG23	35:7R:571:VAL:N	2.36	0.40
44:AA:398:MET:HE2	45:AB:345:ILE:HG13	2.02	0.40
45:AB:267:MET:HE1	45:AB:371:SER:N	2.27	0.40
45:AD:37:HIS:CG	45:AD:37:HIS:O	2.74	0.40
45:AD:210:ILE:HD11	45:AD:298:ASN:O	2.20	0.40
44:AE:181:VAL:HG11	45:AF:256:ASN:O	2.22	0.40
44:AE:274:PRO:N	44:AE:291:ILE:HD11	2.36	0.40
45:AF:68:LEU:HD13	45:AF:147:MET:CE	2.51	0.40
44:AG:244:PHE:CD2	44:AG:358:GLN:HG3	2.55	0.40
45:AH:418:LEU:HD23	45:AH:418:LEU:C	2.41	0.40
46:AI:501:GTP:C8	45:AJ:246:LEU:HD11	2.57	0.40
45:AJ:139:LEU:CD1	45:AJ:168:SER:HB3	2.46	0.40
45:AJ:152:ILE:HD12	45:AJ:164:MET:CE	2.50	0.40
45:AL:172:SER:CB	45:AL:173:PRO:CD	3.00	0.40
45:AN:217:LEU:HD11	45:AN:220:PRO:HB3	2.03	0.40
45:BB:325:GLU:HA	45:BB:328:GLU:HG2	2.03	0.40
44:BC:222:PRO:O	45:BD:324:LYS:HB2	2.20	0.40
44:BC:372:MET:HG2	44:BC:373:ARG:CD	2.44	0.40
45:BD:22:GLU:HG2	45:BD:81:PHE:CG	2.56	0.40
44:BE:107:HIS:CD2	44:BE:152:LEU:HD13	2.56	0.40
44:BE:413:MET:SD	44:BE:417:GLU:HG3	2.61	0.40
44:BE:413:MET:HB2	44:BE:413:MET:HE2	2.00	0.40
44:BE:437:ILE:HG13	44:BE:437:ILE:O	2.21	0.40
45:BF:316:LEU:HA	45:BF:352:SER:OG	2.21	0.40
45:BH:345:ILE:O	45:BH:345:ILE:CG2	2.69	0.40
45:BJ:270:PHE:CD2	45:BJ:273:LEU:HD21	2.46	0.40
45:BJ:405:GLU:HG2	45:BJ:406:MET:CE	2.51	0.40
45:BL:107:THR:CG2	45:BL:108:GLU:N	2.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:113:ILE:HD13	45:BL:154:LYS:NZ	2.36	0.40
44:BM:311:LYS:CB	44:BM:344:VAL:HG22	2.51	0.40
44:BM:390:ARG:HG3	44:BM:391:LEU:N	2.37	0.40
44:CA:28:HIS:HE1	44:CA:243:ARG:NH1	2.19	0.40
44:CA:188:ILE:HG13	44:CA:395:PHE:CD2	2.55	0.40
44:CA:205:ASP:CG	44:CA:303:ALA:HA	2.41	0.40
44:CA:262:TYR:CZ	45:CB:393:ALA:HB2	2.56	0.40
44:CA:409:VAL:HG13	44:CA:413:MET:O	2.22	0.40
45:CB:4:ILE:HD12	45:CB:134:GLN:CD	2.42	0.40
45:CB:130:LEU:HB3	45:CB:162:ARG:HD2	2.02	0.40
44:CE:105:ARG:HG3	44:CE:105:ARG:NH1	2.35	0.40
44:CE:287:SER:N	44:CE:290:GLU:OE2	2.49	0.40
45:CF:4:ILE:HG12	45:CF:50:TYR:HE1	1.86	0.40
44:CG:32:PRO:HB3	44:CG:83:TYR:CD1	2.56	0.40
44:CG:145:THR:HG23	44:CG:146:GLY:N	2.35	0.40
45:CH:121:ARG:NH2	45:CH:158:GLU:OE2	2.53	0.40
45:CH:213:ARG:NH1	45:CH:214:THR:HG1	2.19	0.40
44:CM:23:LEU:HD11	44:CM:361:THR:HG23	2.02	0.40
45:CN:16:ILE:O	45:CN:20:PHE:N	2.43	0.40
45:CN:117:LEU:HA	45:CN:120:VAL:HB	2.03	0.40
44:DA:7:ILE:CD1	44:DA:66:VAL:HG11	2.51	0.40
45:DB:20:PHE:HA	45:DB:230:SER:HB3	2.02	0.40
45:DB:52:ASN:C	45:DB:60:VAL:HG12	2.42	0.40
45:DD:2:ARG:NH2	45:DD:46:ARG:HH12	2.20	0.40
45:DD:73:MET:HA	45:DD:76:VAL:HG12	2.02	0.40
45:DD:117:LEU:HD21	45:DD:121:ARG:HH22	1.84	0.40
44:DE:5:ILE:HD13	44:DE:125:LEU:HB3	2.02	0.40
44:DE:263:PRO:O	44:DE:266:HIS:HD2	2.04	0.40
45:DF:7:ILE:HG21	45:DF:151:LEU:HD22	2.04	0.40
45:DF:133:PHE:O	45:DF:165:GLU:N	2.43	0.40
45:DF:174:LYS:HD2	45:DF:175:VAL:HG13	2.03	0.40
45:DF:242:PHE:CD2	45:DF:356:ILE:HG13	2.52	0.40
45:DH:183:TYR:CE2	45:DH:388:MET:HE3	2.55	0.40
44:DI:60:LYS:NZ	44:DI:85:GLN:O	2.43	0.40
44:DI:274:PRO:HD3	44:DI:374:ALA:HA	2.01	0.40
45:DJ:232:ALA:HB1	45:DJ:268:ILE:HD12	2.03	0.40
44:DK:87:PHE:HD1	44:DK:91:GLN:NE2	2.20	0.40
44:DK:261:PRO:HB3	44:DK:346:TRP:CH2	2.40	0.40
45:DL:323:THR:O	45:DL:326:VAL:HB	2.20	0.40
45:DL:420:SER:HG	45:DL:421:GLU:N	2.18	0.40
44:DM:305:CYS:O	44:DM:307:PRO:HD3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:112:LEU:HD23	45:DN:115:SER:OG	2.21	0.40
44:EA:157:LEU:HA	44:EA:160:ASP:HB2	2.03	0.40
45:EB:22:GLU:HG2	45:EB:81:PHE:HB2	2.02	0.40
45:EB:323:THR:HG1	44:EC:210:TYR:HH	1.67	0.40
44:EC:207:GLU:O	44:EC:210:TYR:HB2	2.20	0.40
44:EC:282:TYR:OH	44:EC:370:LYS:HG3	2.21	0.40
45:ED:8:GLN:HB2	45:ED:13:GLY:HA3	2.04	0.40
45:ED:44:LEU:HG	45:ED:44:LEU:O	2.21	0.40
45:ED:247:ASN:O	45:ED:247:ASN:OD1	2.39	0.40
44:EE:114:ILE:HD13	44:EE:114:ILE:HA	1.89	0.40
44:EE:269:LEU:O	44:EE:379:SER:O	2.40	0.40
44:EE:285:GLN:OE1	44:EE:285:GLN:N	2.54	0.40
45:EF:186:THR:HG23	45:EF:187:LEU:N	2.35	0.40
45:EF:213:ARG:HD3	45:EF:297:LYS:CE	2.41	0.40
44:EG:220:GLU:OE1	44:EG:220:GLU:N	2.51	0.40
45:EH:215:LEU:C	45:EH:216:LYS:HG2	2.41	0.40
44:EI:172:TYR:OH	44:EI:194:LEU:HD21	2.21	0.40
45:EJ:106:TYR:CD2	45:EJ:403:MET:HE3	2.56	0.40
45:EJ:178:THR:HG21	45:EJ:180:VAL:HG12	2.01	0.40
45:EJ:292:GLN:HG2	45:EJ:292:GLN:O	2.21	0.40
45:EJ:325:GLU:HB2	44:EK:221:ARG:HH12	1.81	0.40
44:EK:71:GLU:OE1	44:EK:73:THR:N	2.50	0.40
44:EM:4:VAL:C	44:EM:5:ILE:HG13	2.42	0.40
44:EM:259:LEU:HD23	44:EM:314:ALA:CB	2.52	0.40
44:EM:262:TYR:CE1	45:EN:393:ALA:HA	2.49	0.40
44:EM:358:GLN:HA	44:EM:358:GLN:OE1	2.21	0.40
45:EN:146:GLY:O	45:EN:149:THR:HG22	2.22	0.40
45:EN:209:ASP:O	45:EN:213:ARG:HB2	2.22	0.40
45:EN:257:LEU:HD23	45:EN:368:VAL:HG12	2.03	0.40
44:FA:167:LEU:HD11	44:FA:255:PHE:HD2	1.87	0.40
45:FB:69:GLU:HA	45:FB:70:PRO:HD3	1.96	0.40
44:FC:22:GLU:HG3	44:FC:83:TYR:CE2	2.55	0.40
44:FC:71:GLU:HA	44:FC:72:PRO:HD3	1.97	0.40
44:FE:22:GLU:HG3	44:FE:83:TYR:CZ	2.56	0.40
44:FE:141:VAL:HG23	44:FE:190:SER:OG	2.22	0.40
44:FE:333:ALA:HB2	45:FH:174:LYS:HE2	2.03	0.40
45:FF:9:GLY:HA2	45:FF:66:MET:O	2.22	0.40
45:FF:215:LEU:CD1	45:FF:217:LEU:HD21	2.50	0.40
44:FG:175:PRO:HG3	44:FG:304:LYS:CG	2.44	0.40
44:FI:189:LEU:HD11	44:FI:418:PHE:CZ	2.56	0.40
44:FI:209:ILE:HA	44:FI:212:ILE:CG2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:269:LEU:HG	44:FI:269:LEU:O	2.21	0.40
45:FJ:16:ILE:HG23	45:FJ:17:GLY:N	2.37	0.40
44:FK:242:LEU:HD11	44:FK:252:ILE:HG13	2.03	0.40
44:FK:326:LYS:HD3	44:FK:326:LYS:H	1.86	0.40
45:FL:183:TYR:CZ	45:FL:388:MET:HG3	2.57	0.40
44:GA:88:HIS:O	44:GA:89:PRO:C	2.60	0.40
45:GB:167:PHE:HA	45:GB:200:MET:HB2	2.04	0.40
44:GC:71:GLU:HA	44:GC:72:PRO:HD3	1.86	0.40
44:GC:90:GLU:HB3	44:HC:280:LYS:NZ	2.36	0.40
44:GC:181:VAL:HG22	45:GD:256:ASN:CB	2.49	0.40
44:GC:414:GLU:O	44:GC:417:GLU:HB2	2.21	0.40
45:GD:180:VAL:HG22	45:GD:180:VAL:O	2.21	0.40
45:GD:320:ARG:O	45:GD:363:MET:HE2	2.21	0.40
44:GE:271:SER:O	44:GE:377:MET:HG2	2.22	0.40
44:GE:362:VAL:HG23	44:GE:368:LEU:O	2.21	0.40
45:GF:202:ILE:CG2	45:GF:300:MET:HB3	2.37	0.40
44:GG:183:GLU:N	44:GG:184:PRO:CD	2.85	0.40
45:GH:217:LEU:CD1	45:GH:220:PRO:HG3	2.46	0.40
45:GH:258:ILE:HD11	45:GH:266:PHE:CZ	2.52	0.40
45:GJ:28:HIS:CD2	45:GJ:28:HIS:N	2.90	0.40
45:GJ:203:ASP:O	45:GJ:207:LEU:HG	2.21	0.40
45:GJ:383:GLU:O	45:GJ:386:THR:HG22	2.22	0.40
45:GJ:420:SER:O	45:GJ:423:GLN:HG3	2.21	0.40
44:GK:200:VAL:HG13	44:GK:268:MET:SD	2.61	0.40
44:GK:344:VAL:HG22	44:GK:345:ASP:H	1.86	0.40
44:GK:358:GLN:CG	44:GK:359:PRO:HD2	2.50	0.40
45:GL:3:GLU:CD	45:GL:127:CYS:HB2	2.40	0.40
45:GL:325:GLU:HA	45:GL:328:GLU:CD	2.42	0.40
45:GL:334:GLN:HE22	45:GL:341:PHE:HB3	1.86	0.40
45:GL:404:ASP:OD2	45:GL:406:MET:HE2	2.21	0.40
45:GL:417:ASP:C	45:GL:417:ASP:OD1	2.59	0.40
44:GM:296:PHE:CE1	44:GM:377:MET:HE2	2.47	0.40
45:GN:113:ILE:HD11	45:GN:151:LEU:CA	2.51	0.40
45:GN:285:THR:O	45:GN:288:GLU:N	2.54	0.40
44:HA:203:MET:CB	44:HA:269:LEU:HA	2.51	0.40
44:HA:265:ILE:HG12	44:HA:432:TYR:CE1	2.56	0.40
45:HB:134:GLN:O	45:HB:135:ILE:HD13	2.20	0.40
45:HB:391:ARG:HA	45:HB:391:ARG:HD2	1.82	0.40
44:HC:102:ASN:ND2	44:HC:105:ARG:HG3	2.37	0.40
44:HC:311:LYS:HD2	44:HC:342:GLN:NE2	2.36	0.40
44:HC:313:MET:CE	44:HC:435:VAL:HG11	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HD:141:GLY:HA3	48:HD:501:GDP:O2A	2.21	0.40
44:HE:21:TRP:CD1	44:HE:87:PHE:HZ	2.39	0.40
44:HE:257:THR:HG22	45:HH:397:TRP:CE2	2.56	0.40
45:HF:180:VAL:HG22	45:HF:183:TYR:HB2	2.02	0.40
44:HG:184:PRO:HG2	44:HG:398:MET:CE	2.51	0.40
44:HG:317:MET:HE3	44:HG:375:VAL:HG11	2.03	0.40
44:HG:344:VAL:HG11	44:HG:346:TRP:CZ3	2.56	0.40
44:HG:404:PHE:CD1	44:HG:404:PHE:N	2.89	0.40
45:HH:238:CYS:HA	45:HH:241:ARG:HH12	1.85	0.40
45:HJ:46:ARG:HG3	45:HJ:49:VAL:CG2	2.51	0.40
45:HJ:391:ARG:HA	45:HJ:391:ARG:HD2	1.75	0.40
44:HK:182:VAL:C	44:HK:184:PRO:HD2	2.41	0.40
44:HK:289:ALA:O	44:HK:292:THR:HG22	2.21	0.40
44:HK:394:LYS:HA	44:HK:397:LEU:HD12	2.03	0.40
45:HL:58:ARG:CZ	45:IL:281:TYR:HE1	2.34	0.40
44:HM:66:VAL:HG13	44:HM:66:VAL:O	2.21	0.40
45:HN:42:LEU:CA	45:HN:45:GLU:HG3	2.46	0.40
45:HN:135:ILE:O	45:HN:167:PHE:N	2.40	0.40
45:HN:379:LYS:O	45:HN:380:ARG:C	2.58	0.40
45:HN:384:GLN:O	45:HN:387:ALA:HB1	2.21	0.40
44:IA:96:LYS:HB3	45:IB:129:CYS:SG	2.61	0.40
44:IA:268:MET:HE3	44:IA:378:ILE:CG2	2.48	0.40
44:IA:402:ARG:HB3	44:IA:405:VAL:CG2	2.49	0.40
45:IB:73:MET:O	45:IB:76:VAL:HG12	2.22	0.40
45:IB:139:LEU:CD2	45:IB:170:VAL:HG12	2.50	0.40
44:IC:183:GLU:CG	44:IC:184:PRO:HD3	2.51	0.40
44:IC:312:TYR:O	44:IC:344:VAL:HG23	2.21	0.40
45:ID:49:VAL:HG13	45:ID:50:TYR:HD2	1.85	0.40
45:ID:154:LYS:O	45:ID:157:GLU:HB3	2.21	0.40
45:ID:192:LEU:HD12	45:ID:192:LEU:HA	1.94	0.40
44:IE:34:GLY:O	44:IE:60:LYS:HA	2.21	0.40
44:IE:178:SER:CB	45:IF:347:ASN:HB3	2.50	0.40
45:IF:158:GLU:C	45:IF:159:TYR:HD1	2.24	0.40
44:IG:256:GLN:O	45:IJ:397:TRP:CZ2	2.74	0.40
44:IG:319:TYR:O	44:IG:320:ARG:HG3	2.20	0.40
45:IH:248:SER:OG	45:IH:253:LEU:HD12	2.21	0.40
44:II:216:ASN:HB3	44:II:275:ILE:HG23	2.02	0.40
45:IJ:181:GLU:HB3	45:IJ:182:PRO:HD3	2.03	0.40
45:IJ:192:LEU:O	45:IJ:196:ALA:HB3	2.21	0.40
44:IK:7:ILE:HD12	44:IK:66:VAL:CG1	2.51	0.40
44:IK:132:LEU:HD22	44:IK:164:LYS:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:IK:275:ILE:CD1	44:IK:368:LEU:HD13	2.49	0.40
45:IL:113:ILE:CA	45:IL:116:VAL:HG12	2.51	0.40
44:IM:103:PHE:CE2	44:IM:189:LEU:HB3	2.56	0.40
44:IM:108:TYR:HA	44:IM:112:LYS:CE	2.47	0.40
44:IM:188:ILE:HG22	44:IM:421:ALA:HB1	2.03	0.40
45:IN:208:TYR:HB3	45:IN:212:PHE:CE2	2.56	0.40
45:IN:318:ARG:CZ	45:IN:358:PRO:HD3	2.51	0.40
45:IN:377:MET:HA	45:IN:380:ARG:HG2	2.02	0.40
44:JA:138:PHE:HZ	44:JA:235:ILE:HG13	1.86	0.40
45:JB:20:PHE:O	45:JB:23:VAL:HG12	2.21	0.40
45:JB:23:VAL:HG13	45:JB:24:ILE:N	2.36	0.40
45:JB:193:VAL:HG23	45:JB:264:HIS:HD2	1.85	0.40
45:JB:421:GLU:O	45:JB:424:GLN:HG3	2.21	0.40
44:JC:265:ILE:O	44:JC:265:ILE:CG2	2.68	0.40
45:JD:350:LYS:HA	45:JD:350:LYS:HD3	1.92	0.40
44:JE:42:ILE:CG2	44:JE:45:GLY:HA3	2.50	0.40
44:JG:183:GLU:HG2	44:JG:184:PRO:HD3	2.03	0.40
44:JG:256:GLN:OE1	44:JG:256:GLN:N	2.42	0.40
44:JG:323:VAL:O	44:JG:323:VAL:HG13	2.21	0.40
45:JH:3:GLU:CB	45:JH:62:ARG:HH12	2.26	0.40
45:JH:65:LEU:HB2	45:JH:90:PHE:CE1	2.55	0.40
44:JI:224:TYR:HD1	44:JI:227:LEU:HD12	1.86	0.40
44:JI:313:MET:CE	44:JI:346:TRP:HZ2	2.33	0.40
44:JI:413:MET:HB2	44:JI:413:MET:HE3	1.88	0.40
45:JJ:171:PRO:CD	45:JJ:171:PRO:O	2.63	0.40
44:JK:166:LYS:C	44:JK:167:LEU:HD12	2.41	0.40
45:JL:215:LEU:HD23	45:JL:215:LEU:HA	1.96	0.40
45:JL:352:SER:C	45:JL:353:ILE:HD12	2.41	0.40
44:JM:54:SER:HB2	44:JM:64:ARG:CZ	2.51	0.40
45:JN:268:ILE:C	45:JN:300:MET:HE2	2.41	0.40
45:KB:375:GLN:HB3	45:KB:422:TYR:HB3	2.02	0.40
44:KC:277:SER:OG	44:KC:279:GLU:HG2	2.21	0.40
45:KD:127:CYS:SG	45:KD:130:LEU:N	2.94	0.40
44:KE:92:LEU:HD23	44:KE:92:LEU:HA	1.84	0.40
44:KE:195:LEU:HD11	44:KE:428:LEU:HD21	2.04	0.40
44:KE:348:PRO:CD	45:KH:388:MET:HE1	2.52	0.40
45:KF:34:GLY:O	45:KF:58:ARG:HA	2.21	0.40
45:KF:386:THR:HG23	45:KF:387:ALA:N	2.36	0.40
44:KG:16:VAL:HG13	44:KG:17:GLY:N	2.36	0.40
44:KG:203:MET:HA	44:KG:203:MET:HE1	2.02	0.40
44:KG:324:VAL:CG2	44:KG:326:LYS:CE	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KG:423:GLU:O	44:KG:426:ALA:HB3	2.21	0.40
44:KI:312:TYR:HB2	44:KI:343:PHE:CE1	2.57	0.40
44:KI:373:ARG:HD3	44:KI:373:ARG:N	2.36	0.40
45:KJ:3:GLU:OE1	45:KJ:3:GLU:N	2.50	0.40
45:KJ:143:THR:HG23	45:KJ:144:GLY:N	2.35	0.40
45:KJ:325:GLU:O	45:KJ:328:GLU:HG2	2.21	0.40
44:KK:137:VAL:HG23	44:KK:137:VAL:O	2.21	0.40
44:KK:141:VAL:HG13	44:KK:142:GLY:N	2.36	0.40
45:KL:210:ILE:O	45:KL:214:THR:HG23	2.21	0.40
44:KM:196:GLU:OE1	44:KM:196:GLU:N	2.54	0.40
45:LB:49:VAL:HG12	45:LB:50:TYR:CD2	2.55	0.40
45:LB:103:LYS:HB3	45:LB:108:GLU:OE1	2.21	0.40
45:LB:113:ILE:HG13	45:LB:116:VAL:CG1	2.51	0.40
45:LB:267:MET:O	45:LB:369:GLY:N	2.31	0.40
44:LC:63:PRO:CD	44:LC:86:LEU:HG	2.52	0.40
44:LC:183:GLU:CG	44:LC:184:PRO:HD3	2.51	0.40
44:LC:205:ASP:OD2	44:LC:304:LYS:HB3	2.21	0.40
44:LE:393:HIS:O	44:LE:397:LEU:HG	2.21	0.40
45:LF:165:GLU:HG2	45:LF:200:MET:HE1	2.02	0.40
45:LF:229:VAL:O	45:LF:233:MET:HG3	2.20	0.40
45:LF:300:MET:O	45:LF:300:MET:CG	2.68	0.40
44:LG:119:LEU:HD23	44:LG:119:LEU:HA	1.89	0.40
44:LG:184:PRO:HG2	44:LG:398:MET:CE	2.51	0.40
45:LL:32:PRO:HG3	45:LL:81:PHE:CE2	2.56	0.40
45:LL:152:ILE:HG23	45:LL:164:MET:HE2	1.96	0.40
45:LL:180:VAL:O	45:LL:180:VAL:HG22	2.21	0.40
45:LL:256:ASN:O	45:LL:257:LEU:HD22	2.21	0.40
44:LM:207:GLU:O	44:LM:210:TYR:N	2.53	0.40
44:LM:288:VAL:HA	44:LM:291:ILE:CG1	2.51	0.40
45:LN:206:ALA:O	45:LN:210:ILE:HG13	2.22	0.40
45:LN:286:VAL:HG23	45:LN:287:PRO:HD3	2.04	0.40
44:MA:155:GLU:HG2	44:MA:197:HIS:NE2	2.37	0.40
44:MA:256:GLN:OE1	45:MD:397:TRP:HZ2	2.05	0.40
45:MB:70:PRO:HD3	45:MB:93:GLY:O	2.22	0.40
45:MB:199:CYS:O	45:MB:265:PHE:HA	2.22	0.40
45:MB:248:SER:OG	45:MB:252:LYS:HB3	2.22	0.40
44:MC:111:GLY:HA3	44:MC:149:LEU:CD2	2.45	0.40
44:MC:426:ALA:HA	44:MC:429:GLU:HB2	2.04	0.40
45:MD:186:THR:HG1	45:MD:415:MET:CE	2.34	0.40
44:ME:31:GLN:NE2	44:ME:37:PRO:HA	2.36	0.40
44:ME:107:HIS:O	44:ME:107:HIS:CG	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ME:185:TYR:HE1	44:ME:398:MET:CB	2.34	0.40
44:ME:221:ARG:HE	45:MF:325:GLU:HB3	1.85	0.40
44:ME:262:TYR:HB3	44:ME:263:PRO:CD	2.46	0.40
44:MG:188:ILE:HG23	44:MG:189:LEU:N	2.37	0.40
44:MG:261:PRO:HA	45:MJ:394:PHE:CD1	2.56	0.40
44:MG:387:VAL:HG23	44:MG:388:PHE:N	2.35	0.40
45:MH:380:ARG:HE	45:MH:380:ARG:HB3	1.68	0.40
44:MI:238:LEU:HD23	44:MI:238:LEU:C	2.42	0.40
45:MJ:23:VAL:O	45:MJ:26:ASP:HB2	2.22	0.40
45:MJ:187:LEU:HG	45:MJ:187:LEU:O	2.21	0.40
44:MK:3:GLU:HG2	44:MK:129:CYS:SG	2.61	0.40
44:MK:109:THR:CB	44:MK:411:GLU:OE2	2.69	0.40
44:MM:110:ILE:HG13	44:MM:111:GLY:N	2.36	0.40
44:MM:124:LYS:HE2	44:MM:124:LYS:HB2	1.85	0.40
44:MM:213:CYS:O	44:MM:217:LEU:HB2	2.21	0.40
44:MM:262:TYR:HB3	44:MM:263:PRO:HD2	2.03	0.40
45:MN:97:ALA:CA	45:MN:103:LYS:HD2	2.51	0.40
45:MN:293:MET:HE2	45:MN:365:VAL:HG11	1.99	0.40
45:MN:309:ARG:H	45:MN:372:THR:HB	1.86	0.40
45:MN:345:ILE:O	45:MN:348:ASN:HB3	2.21	0.40
44:NA:54:SER:HB3	44:NA:64:ARG:CZ	2.51	0.40
45:NB:156:ARG:CD	45:NB:164:MET:HE1	2.45	0.40
44:NC:72:PRO:C	44:NC:75:ILE:H	2.22	0.40
44:NC:226:ASN:HA	44:NC:229:ARG:HG2	2.02	0.40
45:ND:8:GLN:O	45:ND:66:MET:HG3	2.20	0.40
45:ND:268:ILE:O	45:ND:300:MET:HB2	2.20	0.40
44:NE:3:GLU:OE2	44:NE:64:ARG:NE	2.54	0.40
44:NE:101:ASN:HA	44:NE:144:GLY:H	1.86	0.40
45:NF:100:ASN:HB3	45:NF:103:LYS:HB2	2.00	0.40
45:NF:109:GLY:O	45:NF:113:ILE:HB	2.21	0.40
45:NF:116:VAL:HG13	45:NF:117:LEU:CD2	2.49	0.40
44:NG:70:LEU:HD13	44:NG:110:ILE:HD11	2.03	0.40
44:NG:288:VAL:CG2	44:NG:323:VAL:HG22	2.51	0.40
44:NG:346:TRP:CZ3	45:NJ:393:ALA:HB1	2.57	0.40
44:NI:69:ASP:HB3	44:NI:75:ILE:HD11	2.03	0.40
44:NI:105:ARG:HD2	44:NI:411:GLU:CG	2.38	0.40
44:NI:194:LEU:O	44:NI:198:THR:HG22	2.21	0.40
44:NI:304:LYS:HG3	44:NI:304:LYS:O	2.21	0.40
45:NJ:167:PHE:CD2	45:NJ:233:MET:HE2	2.56	0.40
44:NK:6:SER:O	44:NK:7:ILE:HD13	2.21	0.40
44:NK:164:LYS:HA	44:NK:164:LYS:HD3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NL:117:LEU:HA	45:NL:120:VAL:CG1	2.51	0.40
45:NL:190:HIS:O	45:NL:193:VAL:HG12	2.22	0.40
45:NL:238:CYS:SG	45:NL:239:CYS:N	2.95	0.40
45:NN:133:PHE:CD2	45:NN:155:VAL:HG11	2.56	0.40
45:NN:204:ASN:HA	45:NN:207:LEU:HD13	2.04	0.40
45:NN:317:PHE:HB3	45:NN:321:MET:HE2	2.03	0.40
44:OA:16:VAL:HA	44:OA:228:ASN:HB3	2.04	0.40
44:OA:133:GLN:HB3	44:OA:252:ILE:HD11	2.00	0.40
44:OA:177:VAL:HG22	45:OB:331:LEU:HD12	2.02	0.40
44:OA:287:SER:O	44:OA:290:GLU:HG2	2.21	0.40
45:OB:288:GLU:HA	45:OB:288:GLU:OE1	2.21	0.40
44:OC:288:VAL:HA	44:OC:291:ILE:HD11	2.04	0.40
45:OD:282:ARG:HH22	45:OD:289:LEU:HD23	1.85	0.40
44:OE:333:ALA:HA	44:OE:336:LYS:HZ1	1.86	0.40
45:OF:143:THR:CG2	45:OF:144:GLY:N	2.85	0.40
45:OF:169:VAL:HA	45:OF:202:ILE:O	2.21	0.40
44:OG:205:ASP:CG	44:OG:304:LYS:HD3	2.42	0.40
44:OG:209:ILE:N	44:OG:302:MET:HE1	2.36	0.40
45:OH:294:PHE:HE2	45:OH:341:PHE:HZ	1.69	0.40
45:OH:342:VAL:HG11	45:OH:345:ILE:CD1	2.51	0.40
44:OK:169:PHE:CE2	44:OK:202:VAL:HG21	2.40	0.40
44:OK:182:VAL:HG22	44:OK:182:VAL:O	2.21	0.40
44:OK:396:ASP:OD1	44:OK:422:ARG:NH1	2.46	0.40
45:OL:35:THR:HG23	45:OL:37:HIS:NE2	2.35	0.40
45:OL:236:VAL:HG23	45:OL:237:THR:N	2.36	0.40
44:OM:387:VAL:O	44:OM:390:ARG:HG2	2.21	0.40
44:OM:406:HIS:NE2	45:ON:260:PHE:HA	2.36	0.40
44:PA:24:PHE:CE1	44:PA:236:SER:HB2	2.56	0.40
44:PA:318:MET:HG2	44:PA:376:CYS:HB3	2.01	0.40
44:PA:352:LYS:HA	44:PA:352:LYS:HE2	2.03	0.40
44:PA:356:ASN:OD1	44:PA:357:TYR:N	2.53	0.40
45:PB:24:ILE:HG23	45:PB:25:SER:N	2.36	0.40
45:PB:404:ASP:HB2	45:PB:406:MET:HE1	2.02	0.40
44:PC:183:GLU:N	44:PC:184:PRO:CD	2.84	0.40
45:PF:11:GLN:HB3	48:PF:501:GDP:PB	2.61	0.40
45:PF:184:ASN:OD1	45:PF:185:ALA:N	2.54	0.40
45:PF:304:ASP:CG	45:PF:306:ARG:HG2	2.41	0.40
44:PG:70:LEU:HD21	44:PG:149:LEU:CG	2.52	0.40
44:PG:154:LEU:HD23	44:PG:166:LYS:CD	2.52	0.40
44:PG:320:ARG:NE	44:PG:360:PRO:CD	2.85	0.40
45:PH:67:ASP:N	45:PH:73:MET:HE1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PH:241:ARG:HG2	45:PH:241:ARG:O	2.22	0.40
45:PH:248:SER:OG	45:PH:253:LEU:HD12	2.21	0.40
44:PI:192:HIS:CG	44:PI:421:ALA:HA	2.57	0.40
44:PI:209:ILE:HG22	44:PI:227:LEU:CD2	2.46	0.40
44:PI:311:LYS:O	44:PI:312:TYR:HD1	2.03	0.40
45:PJ:68:LEU:HG	45:PJ:68:LEU:O	2.22	0.40
45:PJ:110:ALA:HA	45:PJ:113:ILE:HG21	2.02	0.40
44:PK:17:GLY:HA2	44:PK:20:CYS:HB2	2.03	0.40
44:PK:390:ARG:HG3	44:PK:391:LEU:H	1.84	0.40
44:PK:439:THR:HG21	45:PN:390:ARG:CD	2.51	0.40
45:PL:268:ILE:CG1	45:PL:300:MET:HE3	2.49	0.40
45:PL:415:MET:O	45:PL:419:VAL:HG23	2.21	0.40
44:PM:109:THR:HG22	44:PM:110:ILE:HG23	2.03	0.40
44:PM:120:ASP:O	44:PM:124:LYS:HB2	2.22	0.40
44:PM:221:ARG:NH2	45:PN:321:MET:HB3	2.36	0.40
45:PN:178:THR:HG22	45:PN:180:VAL:H	1.86	0.40
45:PN:274:THR:HB	45:PN:282:ARG:HH11	1.85	0.40
44:QA:206:ASN:O	44:QA:209:ILE:N	2.55	0.40
44:QA:251:ASP:HB2	44:QA:254:GLU:HG3	2.04	0.40
45:QB:5:VAL:HG12	45:QB:133:PHE:CE1	2.56	0.40
45:QB:270:PHE:HD2	45:QB:273:LEU:HD21	1.86	0.40
44:QE:247:ALA:HB1	45:QF:222:TYR:CD2	2.45	0.40
45:QF:258:ILE:CD1	45:QF:266:PHE:CZ	3.05	0.40
45:QF:267:MET:CE	45:QF:371:SER:HB3	2.51	0.40
44:QG:268:MET:HA	44:QG:380:ASN:HA	2.03	0.40
44:QG:387:VAL:HG13	44:QG:388:PHE:N	2.36	0.40
45:QH:103:LYS:HG3	45:QH:108:GLU:HG2	2.03	0.40
45:QH:180:VAL:HG21	45:QH:398:TYR:OH	2.22	0.40
45:QH:416:ASN:O	45:QH:419:VAL:HB	2.21	0.40
44:QI:36:MET:CG	44:QI:37:PRO:HD2	2.48	0.40
44:QI:223:THR:O	44:QI:226:ASN:HB2	2.21	0.40
44:QI:312:TYR:HB2	44:QI:343:PHE:CD1	2.56	0.40
45:QJ:201:VAL:HG23	45:QJ:301:CYS:HG	1.86	0.40
45:QL:29:GLY:N	45:QL:43:GLN:HE21	2.18	0.40
45:QL:165:GLU:HG2	45:QL:198:GLU:OE1	2.21	0.40
45:QL:258:ILE:CG1	45:QL:263:LEU:O	2.69	0.40
45:QL:350:LYS:O	45:QL:350:LYS:HD2	2.22	0.40
44:QM:34:GLY:N	44:QM:86:LEU:HD21	2.36	0.40
44:QM:93:ILE:HD11	44:QM:117:LEU:HD23	2.03	0.40
44:QM:183:GLU:HG2	44:QM:184:PRO:N	2.37	0.40
44:QM:261:PRO:HB2	44:QM:262:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QM:307:PRO:HB2	44:QM:312:TYR:OH	2.21	0.40
45:QN:13:GLY:HA3	45:QN:136:THR:O	2.21	0.40
45:QN:108:GLU:O	45:QN:112:LEU:N	2.54	0.40
45:QN:149:THR:HA	45:QN:152:ILE:HG12	2.01	0.40
44:RA:21:TRP:HZ2	44:RA:65:ALA:HB3	1.86	0.40
44:RA:27:GLU:CD	44:RA:243:ARG:HH12	2.25	0.40
44:RA:375:VAL:HG22	44:RA:376:CYS:N	2.36	0.40
44:RA:396:ASP:CG	44:RA:422:ARG:HE	2.19	0.40
45:RB:3:GLU:HB2	45:RB:49:VAL:O	2.21	0.40
45:RB:205:GLU:O	45:RB:209:ASP:N	2.52	0.40
44:RC:71:GLU:HB2	44:RC:98:ASP:CG	2.42	0.40
44:RC:119:LEU:CG	44:RC:156:ARG:HD3	2.48	0.40
44:RC:141:VAL:HG22	44:RC:187:SER:CA	2.36	0.40
44:RC:145:THR:HG23	44:RC:146:GLY:N	2.36	0.40
44:RC:208:ALA:HB2	44:RC:304:LYS:HB2	2.03	0.40
45:RD:62:ARG:HG3	45:RD:62:ARG:O	2.20	0.40
45:RD:375:GLN:O	45:RD:379:LYS:N	2.42	0.40
45:RF:7:ILE:HG12	45:RF:64:ILE:CD1	2.50	0.40
45:RF:416:ASN:O	45:RF:419:VAL:HB	2.21	0.40
44:RG:313:MET:CE	44:RG:346:TRP:CH2	3.03	0.40
45:RH:12:CYS:HB2	48:RH:501:GDP:O4'	2.22	0.40
44:RI:183:GLU:HG2	44:RI:184:PRO:CD	2.51	0.40
44:RI:198:THR:HG22	44:RI:199:ASP:N	2.37	0.40
45:RJ:44:LEU:HD12	45:RJ:44:LEU:C	2.42	0.40
45:RJ:135:ILE:HG22	45:RJ:137:HIS:ND1	2.36	0.40
45:RJ:202:ILE:HA	45:RJ:301:CYS:SG	2.62	0.40
45:RJ:285:THR:CB	45:RJ:287:PRO:HD2	2.51	0.40
44:RK:8:HIS:ND1	44:RK:67:PHE:HE1	2.20	0.40
44:RK:89:PRO:HG3	44:SK:280:LYS:CD	2.51	0.40
44:RK:141:VAL:HG21	44:RK:172:TYR:CE1	2.56	0.40
44:RK:182:VAL:C	44:RK:184:PRO:HD2	2.41	0.40
44:RK:203:MET:CG	44:RK:384:ILE:HD11	2.50	0.40
44:RK:209:ILE:CG1	44:RK:302:MET:CE	2.97	0.40
44:RK:214:ARG:HG2	44:RK:214:ARG:NH1	2.35	0.40
45:RL:65:LEU:HD21	45:RL:85:PHE:CE2	2.56	0.40
45:RL:287:PRO:O	45:RL:290:THR:HG22	2.20	0.40
45:RL:376:GLU:HA	45:RL:379:LYS:HZ1	1.86	0.40
44:RM:137:VAL:N	44:RM:167:LEU:O	2.49	0.40
44:RM:437:ILE:O	45:RN:391:ARG:NH1	2.50	0.40
45:RN:337:ASN:O	45:RN:341:PHE:HD1	2.04	0.40
45:RN:391:ARG:HA	45:RN:391:ARG:HD2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SB:20:PHE:HZ	45:SB:50:TYR:CE2	2.38	0.40
45:SB:113:ILE:HD12	45:SB:150:LEU:HD22	2.03	0.40
45:SB:313:ALA:O	45:SB:350:LYS:N	2.50	0.40
44:SE:123:ARG:O	44:SE:123:ARG:HD2	2.20	0.40
44:SE:318:MET:O	44:SE:375:VAL:HG23	2.22	0.40
45:SF:47:ILE:HD11	45:SF:59:TYR:CD2	2.57	0.40
45:SF:86:ARG:HG2	45:SF:89:ASN:CG	2.41	0.40
44:SG:267:PHE:HD2	44:SG:388:PHE:HZ	1.67	0.40
45:SH:325:GLU:O	45:SH:329:GLN:HG2	2.21	0.40
44:SI:154:LEU:O	44:SI:158:SER:N	2.45	0.40
44:SI:258:ASN:OD1	44:SI:259:LEU:HG	2.20	0.40
45:SJ:251:ARG:NH2	44:SK:105:ARG:HD2	2.36	0.40
45:SJ:286:VAL:N	45:SJ:287:PRO:CD	2.85	0.40
45:SJ:341:PHE:HB3	45:SJ:348:ASN:HD21	1.85	0.40
44:SK:84:ARG:HG3	44:SK:85:GLN:NE2	2.36	0.40
44:SK:88:HIS:HB3	44:SK:91:GLN:HB3	1.98	0.40
44:SK:344:VAL:HG22	44:SK:345:ASP:H	1.86	0.40
45:SL:215:LEU:HD11	45:SL:228:LEU:HD21	2.03	0.40
45:SL:416:ASN:OD1	45:SL:419:VAL:HB	2.21	0.40
45:SN:331:LEU:HG	45:SN:335:ASN:OD1	2.21	0.40
44:TA:349:THR:O	44:TA:349:THR:HG23	2.21	0.40
45:TB:25:SER:HB3	45:TB:30:ILE:O	2.20	0.40
45:TB:267:MET:HE2	45:TB:371:SER:O	2.21	0.40
45:TB:317:PHE:CD1	45:TB:365:VAL:CG1	3.04	0.40
45:TB:380:ARG:C	45:TB:380:ARG:HD2	2.41	0.40
44:TC:317:MET:CE	44:TC:352:LYS:H	2.34	0.40
45:TD:4:ILE:HD12	45:TD:134:GLN:HG2	2.03	0.40
45:TD:86:ARG:HH12	45:UD:280:GLN:N	2.19	0.40
45:TD:319:GLY:O	45:TD:355:ASP:HA	2.21	0.40
45:TD:350:LYS:HA	44:TE:179:THR:O	2.21	0.40
45:TF:76:VAL:HG13	45:TF:77:ARG:N	2.35	0.40
45:TF:230:SER:N	45:TF:233:MET:HE2	2.36	0.40
44:TG:4:VAL:HG23	44:TG:134:GLY:C	2.41	0.40
44:TG:108:TYR:HD1	44:TG:112:LYS:CE	2.32	0.40
45:TH:23:VAL:HG21	45:TH:230:SER:HB2	2.03	0.40
44:TI:49:PHE:CD2	44:TI:53:PHE:HB2	2.55	0.40
45:TJ:299:MET:HE2	45:TJ:299:MET:N	2.37	0.40
45:TJ:392:LYS:HD2	45:TJ:392:LYS:N	2.37	0.40
44:TK:175:PRO:HG3	44:TK:390:ARG:CD	2.51	0.40
44:TK:238:LEU:CD2	44:TK:255:PHE:HE2	2.35	0.40
45:TL:73:MET:HE1	45:TL:90:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TM:73:THR:O	44:TM:76:ASP:N	2.54	0.40
44:TM:125:LEU:HA	44:TM:128:ASN:HD22	1.86	0.40
44:TM:194:LEU:HA	44:TM:198:THR:HG23	2.01	0.40
44:UA:225:THR:O	44:UA:229:ARG:HG3	2.21	0.40
44:UA:296:PHE:CD2	44:UA:335:ILE:HD12	2.45	0.40
44:UA:320:ARG:HE	44:UA:360:PRO:HG3	1.85	0.40
45:UB:207:LEU:HD13	45:UB:225:LEU:CB	2.51	0.40
45:UB:286:VAL:N	45:UB:287:PRO:HD2	2.35	0.40
44:UC:68:LEU:CD1	44:UC:93:ILE:HD13	2.51	0.40
44:UC:333:ALA:CA	44:UC:336:LYS:HZ3	2.30	0.40
44:UC:362:VAL:HG23	44:UC:370:LYS:H	1.86	0.40
45:UD:213:ARG:HH21	45:UD:297:LYS:HZ3	1.68	0.40
45:UD:287:PRO:C	45:UD:290:THR:HG22	2.42	0.40
45:UD:423:GLN:O	45:UD:423:GLN:HG3	2.20	0.40
44:UE:115:VAL:HG13	44:UE:116:ASP:N	2.36	0.40
44:UG:329:ASN:CG	45:UH:175:VAL:HG11	2.41	0.40
44:UG:347:CYS:HA	45:UH:388:MET:CE	2.52	0.40
45:UH:136:THR:CG2	45:UH:233:MET:HE3	2.52	0.40
45:UH:170:VAL:HG13	45:UH:201:VAL:CG2	2.51	0.40
45:UH:262:ARG:CZ	45:UH:263:LEU:HD11	2.51	0.40
44:UI:115:VAL:O	44:UI:118:CYS:N	2.49	0.40
44:UI:133:GLN:HB3	44:UI:252:ILE:HD12	2.03	0.40
45:UJ:101:TRP:CE3	45:UJ:187:LEU:HD13	2.56	0.40
45:UJ:167:PHE:HD2	45:UJ:200:MET:HG2	1.86	0.40
45:UJ:210:ILE:HG23	45:UJ:214:THR:OG1	2.21	0.40
45:UJ:229:VAL:O	45:UJ:229:VAL:HG12	2.20	0.40
45:UJ:252:LYS:HZ3	46:UK:501:GTP:PG	2.43	0.40
44:UK:73:THR:O	44:UK:77:GLU:N	2.39	0.40
45:UL:32:PRO:HG3	45:UL:81:PHE:CG	2.56	0.40
45:UL:203:ASP:OD2	45:UL:377:MET:HE3	2.21	0.40
45:UL:294:PHE:CE2	45:UL:333:VAL:HG11	2.56	0.40
44:UM:5:ILE:CG1	44:UM:64:ARG:HD3	2.51	0.40
44:UM:138:PHE:CE2	44:UM:169:PHE:HB2	2.56	0.40
44:UM:157:LEU:HA	44:UM:160:ASP:HB2	2.03	0.40
44:UM:291:ILE:CG1	44:UM:373:ARG:HH12	2.33	0.40
44:UM:375:VAL:HG22	44:UM:377:MET:HE2	2.04	0.40
45:UN:85:PHE:HD2	45:UN:90:PHE:CZ	2.40	0.40
45:UN:113:ILE:HA	45:UN:116:VAL:HG22	2.03	0.40
45:UN:229:VAL:HG12	45:UN:233:MET:HE1	2.03	0.40
44:VA:16:VAL:HG13	44:VA:138:PHE:CD2	2.56	0.40
44:VA:116:ASP:O	44:VA:119:LEU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:253:THR:HG23	44:VA:254:GLU:HG3	2.03	0.40
44:VA:258:ASN:ND2	45:VD:178:THR:HG23	2.16	0.40
45:VB:222:TYR:HA	45:VB:225:LEU:HD21	2.03	0.40
45:VB:269:GLY:HA3	45:VB:298:ASN:ND2	2.36	0.40
45:VD:149:THR:HG23	45:VD:150:LEU:N	2.36	0.40
45:VD:318:ARG:CZ	45:VD:358:PRO:HG3	2.51	0.40
45:VD:414:ASN:O	45:VD:417:ASP:N	2.54	0.40
44:VE:12:GLY:HA3	46:VE:501:GTP:C8	2.56	0.40
44:VE:176:GLN:HG2	44:VE:177:VAL:N	2.36	0.40
44:VE:188:ILE:CD1	44:VE:425:LEU:HD11	2.51	0.40
44:VG:64:ARG:HA	44:VG:64:ARG:HD3	1.89	0.40
44:VG:187:SER:HA	44:VG:190:SER:OG	2.22	0.40
44:VG:253:THR:O	44:VG:257:THR:HG22	2.21	0.40
45:VH:162:ARG:NE	45:VH:162:ARG:HA	2.36	0.40
45:VH:303:ALA:H	45:VH:377:MET:HE3	1.85	0.40
44:VI:91:GLN:CB	44:VI:121:ARG:HD2	2.52	0.40
44:VI:223:THR:O	44:VI:227:LEU:CD1	2.67	0.40
44:VI:280:LYS:CG	44:VI:280:LYS:O	2.70	0.40
44:VI:288:VAL:HG21	44:VI:323:VAL:HG23	2.03	0.40
45:VJ:101:TRP:HA	45:VJ:142:GLY:CA	2.51	0.40
45:VJ:238:CYS:SG	45:VJ:316:LEU:HD23	2.61	0.40
44:VK:23:LEU:HD12	44:VK:361:THR:HG23	2.03	0.40
45:VL:294:PHE:CE2	45:VL:333:VAL:HG21	2.57	0.40
45:VL:398:TYR:HB3	45:VL:408:PHE:HE2	1.86	0.40
44:VM:175:PRO:HD3	44:VM:390:ARG:NH1	2.37	0.40
44:VM:198:THR:HG22	44:VM:200:VAL:H	1.86	0.40
44:VM:271:SER:O	44:VM:376:CYS:HA	2.21	0.40
45:VN:133:PHE:O	45:VN:165:GLU:N	2.43	0.40
45:VN:309:ARG:NH1	45:VN:342:VAL:HG23	2.37	0.40
44:WA:9:VAL:HG23	44:WA:68:LEU:O	2.21	0.40
44:WA:315:CYS:SG	44:WA:379:SER:HB3	2.61	0.40
45:WB:184:ASN:O	45:WB:188:SER:N	2.50	0.40
45:WB:197:ASP:O	45:WB:264:HIS:HB2	2.20	0.40
45:WD:113:ILE:O	45:WD:116:VAL:HG12	2.21	0.40
45:WD:215:LEU:O	45:WD:275:SER:HA	2.21	0.40
45:WF:294:PHE:HE2	45:WF:333:VAL:HG21	1.83	0.40
44:WG:98:ASP:CG	44:WG:100:ALA:H	2.25	0.40
45:WJ:4:ILE:HD13	45:WJ:250:LEU:CD1	2.50	0.40
45:WJ:65:LEU:HB2	45:WJ:90:PHE:CD1	2.56	0.40
44:WK:62:VAL:HG13	44:WK:62:VAL:O	2.21	0.40
45:WL:97:ALA:CB	45:WL:143:THR:HB	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WM:73:THR:HG21	45:WN:243:PRO:HA	2.03	0.40
44:WM:183:GLU:CD	44:WM:184:PRO:HD3	2.41	0.40
44:WM:304:LYS:HB3	44:WM:304:LYS:HE3	1.88	0.40
45:WN:4:ILE:HD13	45:WN:250:LEU:HD11	2.02	0.40
45:WN:230:SER:O	45:WN:231:ALA:C	2.59	0.40
2:0A:50:PRO:HB2	35:7R:70:ARG:HD2	2.02	0.40
5:0D:38:ILE:HG22	44:DC:89:PRO:HB3	2.02	0.40
18:1F:102:TYR:OH	44:GI:32:PRO:HD3	2.21	0.40
20:1J:117:GLU:OE2	44:IE:221:ARG:HD3	2.21	0.40
20:1J:252:GLN:CG	44:II:280:LYS:HD3	2.52	0.40
16:1X:24:ALA:HB3	45:MH:273:LEU:CD2	2.50	0.40
32:2I:114:PHE:CZ	44:FC:123:ARG:HG3	2.55	0.40
22:2L:672:THR:HG22	45:CL:320:ARG:NH1	2.18	0.40
24:2O:128:ARG:HH21	45:VN:81:PHE:HE2	1.69	0.40
26:2R:315:GLN:NE2	45:CH:279:GLN:OE1	2.54	0.40
26:2R:429:GLU:CB	45:FH:276:ARG:HH12	2.34	0.40
26:3R:411:VAL:HG21	44:EK:370:LYS:NZ	2.35	0.40
34:4F:71:TYR:CE2	44:II:26:LEU:HD13	2.49	0.40
34:4F:213:ALA:HB2	45:HN:54:ALA:O	2.21	0.40
36:4S:115:PRO:HG3	44:WA:127:ASP:O	2.21	0.40
37:5D:25:ASP:OD2	45:KN:393:ALA:N	2.54	0.40
37:5D:45:TYR:O	45:KN:391:ARG:NE	2.05	0.40
37:5D:107:TYR:HB3	44:NM:278:ALA:N	2.18	0.40
38:5F:60:TRP:CH2	45:OF:279:GLN:HA	2.55	0.40
39:5I:93:ASP:OD2	44:JA:434:GLU:HG3	2.21	0.40
39:5K:22:TRP:NE1	45:NL:343:GLU:HB3	2.36	0.40
39:5K:86:LYS:O	39:5K:90:LEU:N	2.53	0.40
35:5R:341:ARG:CZ	35:5R:344:ASN:HA	2.51	0.40
36:5S:163:LYS:C	36:5S:166:GLN:HG2	2.42	0.40
40:6F:139:LEU:CD2	44:IG:22:GLU:HG2	2.51	0.40
41:6G:165:THR:HG22	45:VH:209:ASP:OD2	2.21	0.40
41:6G:270:THR:CG2	44:VA:298:PRO:HD3	2.50	0.40
41:6G:281:THR:CG2	41:6G:284:LYS:HB2	2.52	0.40
41:6G:305:THR:O	41:6G:306:GLU:HB2	2.22	0.40
35:6R:389:ASN:CA	45:EN:276:ARG:HH12	2.34	0.40
35:6R:413:ILE:HG23	44:EM:372:MET:HE1	2.03	0.40
35:7R:116:CYS:CB	35:7R:131:GLU:HB3	2.51	0.40
35:7R:329:TYR:HB3	35:7R:334:LEU:HD11	2.03	0.40
35:7R:557:ASP:CG	35:7R:560:ARG:H	2.24	0.40
42:8L:61:UNK:O	42:8L:64:UNK:N	2.54	0.40
42:8N:120:UNK:CB	44:QI:58:ALA:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AB:55:THR:H	45:BB:283:ALA:CB	2.35	0.40
45:AB:263:LEU:HD11	45:AB:421:GLU:OE1	2.20	0.40
45:AB:386:THR:HG23	45:AB:387:ALA:N	2.36	0.40
44:AC:230:LEU:HD21	44:AC:368:LEU:HD21	2.03	0.40
44:AC:230:LEU:O	44:AC:234:VAL:HG23	2.22	0.40
44:AC:325:PRO:O	44:AC:328:VAL:HB	2.21	0.40
45:AD:263:LEU:HG	45:AD:422:TYR:HD1	1.86	0.40
45:AD:320:ARG:HH22	45:AD:357:PRO:HD3	1.86	0.40
44:AE:11:GLN:HG3	44:AE:74:VAL:CG1	2.50	0.40
44:AE:174:SER:HB3	44:AE:207:GLU:HB2	2.02	0.40
45:AF:272:PRO:HG3	45:AF:284:LEU:CD1	2.52	0.40
45:AF:357:PRO:HA	45:AF:358:PRO:HD3	1.97	0.40
44:AG:25:CYS:SG	44:AG:30:ILE:HD11	2.62	0.40
44:AG:102:ASN:CB	44:AG:105:ARG:HG3	2.51	0.40
44:AG:132:LEU:HD23	44:AG:132:LEU:C	2.41	0.40
44:AG:261:PRO:HG2	44:AG:313:MET:SD	2.61	0.40
45:AH:161:ASP:O	45:AH:162:ARG:NH2	2.54	0.40
45:AH:276:ARG:HA	45:AH:276:ARG:HD2	1.88	0.40
44:AI:10:GLY:O	44:AI:14:ILE:HG13	2.22	0.40
44:AI:124:LYS:HE2	44:AI:124:LYS:HB2	1.84	0.40
45:AJ:379:LYS:O	45:AJ:382:ALA:HB3	2.21	0.40
44:AK:212:ILE:HD11	44:AK:300:ASN:HA	2.03	0.40
44:AK:250:VAL:CG1	44:AK:255:PHE:CE1	3.04	0.40
45:AL:20:PHE:CE1	45:AL:24:ILE:HD11	2.56	0.40
45:AL:65:LEU:HD21	45:AL:85:PHE:HE2	1.86	0.40
45:AL:86:ARG:CD	45:AL:88:ASP:HB3	2.51	0.40
45:AL:242:PHE:HB3	45:AL:356:ILE:CG1	2.51	0.40
45:AL:318:ARG:HG2	45:AL:319:GLY:N	2.36	0.40
45:AL:324:LYS:HD3	45:AL:324:LYS:HA	1.40	0.40
44:AM:176:GLN:HG3	45:AN:331:LEU:HD13	2.01	0.40
44:AM:222:PRO:CD	45:AN:324:LYS:HD3	2.51	0.40
45:AN:143:THR:O	45:AN:147:MET:HB3	2.20	0.40
44:BA:76:ASP:O	44:BA:79:ARG:HB2	2.22	0.40
44:BA:88:HIS:ND1	44:BA:89:PRO:HD2	2.36	0.40
44:BA:221:ARG:HH22	45:BB:325:GLU:HB3	1.87	0.40
44:BA:275:ILE:HG23	44:BA:368:LEU:HD11	2.03	0.40
44:BA:332:ILE:HD12	44:BA:351:PHE:CE2	2.56	0.40
44:BC:301:MET:HE3	44:BC:307:PRO:HG3	2.02	0.40
44:BC:344:VAL:HG12	44:BC:346:TRP:H	1.86	0.40
45:BD:67:ASP:OD2	45:BD:72:THR:HG21	2.21	0.40
45:BD:134:GLN:C	45:BD:135:ILE:HD12	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:141:GLY:HA2	48:BD:502:GDP:O2A	2.21	0.40
44:BE:346:TRP:CG	45:BH:391:ARG:HD3	2.56	0.40
45:BF:92:PHE:C	45:BF:112:LEU:HD11	2.42	0.40
45:BF:285:THR:CG2	45:BF:287:PRO:HD2	2.48	0.40
44:BG:49:PHE:CE2	44:BG:55:GLU:HB2	2.54	0.40
44:BG:259:LEU:O	44:BG:261:PRO:HD2	2.20	0.40
44:BG:313:MET:CE	44:BG:435:VAL:HG11	2.52	0.40
44:BG:323:VAL:HG21	44:BG:328:VAL:CG2	2.51	0.40
44:BI:8:HIS:CD2	44:BI:17:GLY:HA3	2.56	0.40
44:BI:84:ARG:HH11	44:BI:84:ARG:HG3	1.87	0.40
44:BI:257:THR:O	45:BL:397:TRP:HZ3	2.04	0.40
44:BI:306:ASP:OD1	44:BI:308:ARG:HB2	2.22	0.40
44:BK:262:TYR:HB3	44:BK:263:PRO:HD2	2.02	0.40
44:BK:311:LYS:CD	44:BK:342:GLN:HG3	2.42	0.40
44:BK:348:PRO:CD	45:BN:388:MET:HE2	2.29	0.40
44:BK:349:THR:HG23	44:BK:349:THR:O	2.21	0.40
44:BM:118:CYS:O	44:BM:122:ILE:HG12	2.21	0.40
44:BM:203:MET:HE1	44:BM:267:PHE:CD1	2.57	0.40
45:BN:282:ARG:CZ	45:BN:292:GLN:OE1	2.69	0.40
44:CA:194:LEU:HB2	44:CA:198:THR:HG1	1.86	0.40
44:CA:312:TYR:HB2	44:CA:343:PHE:CD1	2.56	0.40
44:CA:360:PRO:CG	44:CA:374:ALA:HB3	2.52	0.40
45:CB:5:VAL:O	45:CB:5:VAL:HG23	2.21	0.40
45:CB:198:GLU:OE2	45:CB:254:ALA:HB2	2.21	0.40
45:CD:149:THR:O	45:CD:152:ILE:HB	2.21	0.40
44:CE:122:ILE:O	44:CE:125:LEU:N	2.54	0.40
45:CF:46:ARG:HG3	45:CF:241:ARG:O	2.22	0.40
45:CF:90:PHE:O	45:CF:91:VAL:HG23	2.22	0.40
45:CF:117:LEU:HD11	45:CF:158:GLU:OE2	2.22	0.40
45:CF:143:THR:CG2	45:CF:144:GLY:N	2.85	0.40
45:CH:5:VAL:HG22	45:CH:133:PHE:CE1	2.57	0.40
45:CJ:217:LEU:HD12	45:CJ:217:LEU:C	2.42	0.40
45:CJ:242:PHE:CD2	45:CJ:356:ILE:HB	2.56	0.40
45:CJ:257:LEU:HD21	45:CJ:368:VAL:HG13	2.01	0.40
44:CK:112:LYS:NZ	44:CK:113:GLU:HG2	2.36	0.40
44:CK:278:ALA:CA	44:CK:369:ALA:HB2	2.51	0.40
45:CL:8:GLN:CD	45:CL:65:LEU:HG	2.42	0.40
44:CM:88:HIS:HB3	44:CM:91:GLN:CG	2.51	0.40
44:CM:137:VAL:O	44:CM:168:GLY:HA2	2.21	0.40
45:CN:257:LEU:HD23	45:CN:312:THR:CG2	2.51	0.40
45:CN:342:VAL:HG22	45:CN:343:GLU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DC:217:LEU:O	44:DC:277:SER:HB3	2.21	0.40
44:DC:254:GLU:OE1	45:DD:99:ASN:ND2	2.54	0.40
44:DC:402:ARG:O	44:DC:402:ARG:HG3	2.20	0.40
45:DD:60:VAL:HG13	45:DD:60:VAL:O	2.21	0.40
45:DD:130:LEU:HD21	45:DD:133:PHE:CZ	2.56	0.40
45:DD:168:SER:N	45:DD:200:MET:O	2.54	0.40
45:DD:238:CYS:HB2	45:DD:318:ARG:NH2	2.36	0.40
44:DE:88:HIS:HB3	44:DE:91:GLN:OE1	2.21	0.40
44:DE:167:LEU:CD2	44:DE:252:ILE:HD11	2.51	0.40
45:DF:289:LEU:HD11	45:DF:363:MET:HB3	2.02	0.40
45:DF:292:GLN:HG2	45:DF:292:GLN:O	2.21	0.40
44:DG:32:PRO:HB3	44:DG:83:TYR:CE1	2.56	0.40
44:DG:84:ARG:HH11	44:DG:84:ARG:HG3	1.86	0.40
44:DG:192:HIS:ND1	44:DG:424:ASP:OD2	2.53	0.40
44:DI:158:SER:OG	44:DI:197:HIS:HD2	2.04	0.40
44:DI:217:LEU:CD1	44:DI:367:ASP:HB3	2.51	0.40
44:DI:289:ALA:O	44:DI:292:THR:HG22	2.21	0.40
44:DI:310:GLY:CA	44:DI:383:ALA:HB2	2.51	0.40
45:DJ:166:THR:OG1	45:DJ:199:CYS:HA	2.21	0.40
45:DJ:318:ARG:O	45:DJ:363:MET:HG2	2.21	0.40
44:DK:183:GLU:CD	44:DK:184:PRO:HD3	2.42	0.40
44:DK:263:PRO:HD3	45:DL:396:HIS:ND1	2.37	0.40
44:DK:265:ILE:HG23	44:DK:432:TYR:CE1	2.56	0.40
45:DL:44:LEU:HD23	45:DL:44:LEU:HA	1.88	0.40
45:DL:246:LEU:HD22	44:DM:179:THR:HG21	2.03	0.40
45:DL:251:ARG:HD3	44:DM:105:ARG:NH1	2.37	0.40
44:DM:11:GLN:OE1	46:DM:501:GTP:O2B	2.40	0.40
44:DM:172:TYR:OH	44:DM:194:LEU:HD21	2.20	0.40
44:DM:188:ILE:HG23	44:DM:189:LEU:N	2.37	0.40
44:DM:224:TYR:CD1	46:DM:501:GTP:C6	3.10	0.40
45:DN:21:TRP:CE3	45:DN:61:PRO:HB3	2.55	0.40
45:DN:318:ARG:HH11	45:DN:358:PRO:CG	2.32	0.40
44:EA:183:GLU:CD	44:EA:184:PRO:HD3	2.41	0.40
44:EA:202:VAL:HG12	44:EA:203:MET:N	2.36	0.40
45:EB:139:LEU:CD2	45:EB:189:VAL:HG23	2.51	0.40
45:EB:206:ALA:HB3	45:EB:300:MET:O	2.22	0.40
45:EB:305:PRO:HB3	45:EB:310:TYR:CZ	2.56	0.40
45:EB:324:LYS:CB	44:EC:210:TYR:HE2	2.34	0.40
44:EC:312:TYR:HA	44:EC:381:SER:CB	2.49	0.40
45:ED:25:SER:CB	45:ED:30:ILE:HD11	2.51	0.40
45:ED:40:SER:OG	45:ED:41:ASP:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ED:49:VAL:CG2	45:ED:241:ARG:HD3	2.50	0.40
45:ED:251:ARG:HB3	44:EE:100:ALA:HB1	2.02	0.40
45:ED:256:ASN:HD22	45:ED:350:LYS:CE	2.35	0.40
45:ED:286:VAL:N	45:ED:287:PRO:CD	2.84	0.40
45:ED:319:GLY:O	45:ED:321:MET:HE1	2.22	0.40
44:EE:259:LEU:HD23	44:EE:259:LEU:HA	1.91	0.40
45:EF:215:LEU:HD12	45:EF:217:LEU:CD2	2.52	0.40
45:EF:257:LEU:HD21	45:EF:368:VAL:O	2.20	0.40
45:EF:320:ARG:NH2	45:EF:356:ILE:HD13	2.21	0.40
44:EG:35:GLN:HG2	44:EG:36:MET:H	1.87	0.40
44:EG:182:VAL:O	44:EG:182:VAL:HG22	2.22	0.40
44:EG:311:LYS:HD2	44:EG:342:GLN:CG	2.40	0.40
45:EH:238:CYS:HB2	45:EH:318:ARG:CZ	2.51	0.40
45:EH:318:ARG:HD3	45:EH:358:PRO:CG	2.51	0.40
44:EI:62:VAL:HG13	44:EI:62:VAL:O	2.21	0.40
44:EI:268:MET:HG3	44:EI:378:ILE:HG23	2.03	0.40
45:EJ:177:ASP:HB2	48:EJ:501:GDP:O3'	2.21	0.40
45:EJ:197:ASP:O	45:EJ:264:HIS:HB2	2.21	0.40
44:EK:27:GLU:CB	44:EK:361:THR:HG21	2.50	0.40
44:EK:254:GLU:OE2	45:EL:98:GLY:HA2	2.21	0.40
44:EK:432:TYR:CA	44:EK:435:VAL:HG12	2.51	0.40
45:EL:198:GLU:HG2	45:EL:266:PHE:HE2	1.87	0.40
45:EL:385:PHE:CE2	45:EL:412:GLU:HB2	2.35	0.40
44:EM:261:PRO:HA	45:EN:394:PHE:HD1	1.78	0.40
44:EM:280:LYS:HE3	44:EM:283:HIS:CE1	2.56	0.40
44:EM:425:LEU:O	44:EM:428:LEU:N	2.54	0.40
45:EN:204:ASN:O	45:EN:207:LEU:N	2.54	0.40
45:EN:324:LYS:O	45:EN:328:GLU:HG2	2.20	0.40
44:FA:258:ASN:ND2	44:FA:352:LYS:HG2	2.36	0.40
45:FB:287:PRO:C	45:FB:290:THR:HG22	2.38	0.40
44:FC:9:VAL:HG21	44:FC:149:LEU:HB3	2.03	0.40
44:FC:277:SER:OG	44:FC:280:LYS:HE2	2.20	0.40
44:FC:344:VAL:HG22	44:FC:345:ASP:N	2.36	0.40
44:FE:320:ARG:HG3	44:FE:374:ALA:HB3	2.03	0.40
44:FE:394:LYS:CD	45:FF:346:PRO:HG2	2.52	0.40
44:FG:9:VAL:HG12	44:FG:139:ASN:HB3	2.04	0.40
44:FG:98:ASP:OD1	44:FG:100:ALA:N	2.45	0.40
44:FG:141:VAL:HG11	44:FG:172:TYR:HA	2.04	0.40
44:FG:307:PRO:HB3	44:FG:312:TYR:OH	2.21	0.40
44:FG:401:LYS:HE3	45:FH:344:TRP:CE3	2.57	0.40
44:FI:244:PHE:HB2	44:FI:356:ASN:HD21	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FI:250:VAL:CG1	44:FI:255:PHE:HE1	2.34	0.40
44:FI:331:SER:HG	44:FI:332:ILE:HD12	1.87	0.40
44:FI:333:ALA:HA	44:FI:336:LYS:NZ	2.36	0.40
45:FJ:391:ARG:HD2	45:FJ:391:ARG:HA	1.83	0.40
44:FK:247:ALA:HB2	44:FK:357:TYR:OH	2.21	0.40
44:FK:288:VAL:HG23	44:FK:289:ALA:N	2.36	0.40
45:FL:107:THR:HG23	45:FL:108:GLU:HG2	2.02	0.40
45:FL:222:TYR:HA	45:FL:225:LEU:HG	2.03	0.40
45:FL:267:MET:HB2	45:FL:301:CYS:SG	2.62	0.40
45:FN:104:GLY:N	45:FN:108:GLU:HB2	2.36	0.40
45:FN:274:THR:HA	45:FN:282:ARG:HH11	1.86	0.40
45:GB:8:GLN:NE2	45:GB:65:LEU:HG	2.36	0.40
45:GB:319:GLY:CA	45:GB:355:ASP:O	2.69	0.40
44:GC:270:SER:HB2	44:GC:378:ILE:CD1	2.52	0.40
45:GD:54:ALA:CB	45:GD:58:ARG:HG3	2.51	0.40
45:GD:69:GLU:OE1	45:GD:71:GLY:N	2.53	0.40
44:GE:268:MET:HB2	44:GE:379:SER:O	2.20	0.40
45:GF:20:PHE:N	45:GF:230:SER:OG	2.54	0.40
44:GG:172:TYR:HD2	44:GG:203:MET:SD	2.44	0.40
44:GG:278:ALA:HB2	44:GG:369:ALA:CB	2.52	0.40
44:GG:304:LYS:HE2	44:GG:304:LYS:CA	2.45	0.40
45:GH:113:ILE:HD11	45:GH:151:LEU:HB2	2.04	0.40
45:GH:311:LEU:HD22	45:GH:342:VAL:CG1	2.51	0.40
44:GI:66:VAL:HG22	44:GI:68:LEU:HD12	2.02	0.40
44:GI:318:MET:SD	44:GI:354:GLY:HA3	2.62	0.40
45:GJ:49:VAL:HG11	45:GJ:241:ARG:CG	2.52	0.40
44:GK:323:VAL:HG22	44:GK:324:VAL:N	2.36	0.40
45:GL:143:THR:HG22	48:GL:502:GDP:O2B	2.21	0.40
45:GL:217:LEU:HD11	45:GL:220:PRO:CG	2.50	0.40
45:GL:343:GLU:OE2	45:GL:430:ALA:HB3	2.21	0.40
45:GL:417:ASP:O	45:GL:420:SER:OG	2.27	0.40
44:GM:118:CYS:SG	44:GM:153:LEU:HD21	2.61	0.40
44:GM:202:VAL:HG22	44:GM:268:MET:SD	2.62	0.40
45:GN:113:ILE:HD11	45:GN:151:LEU:HA	2.04	0.40
44:HA:108:TYR:HA	44:HA:112:LYS:HE3	2.03	0.40
44:HA:406:HIS:NE2	45:HB:261:PRO:HD3	2.37	0.40
44:HC:224:TYR:O	44:HC:227:LEU:N	2.54	0.40
44:HC:288:VAL:CA	44:HC:291:ILE:HG12	2.50	0.40
44:HC:397:LEU:HB3	45:HD:344:TRP:O	2.22	0.40
45:HD:370:ASN:OD1	45:HD:422:TYR:OH	2.38	0.40
44:HG:27:GLU:CD	44:HG:243:ARG:HH22	2.23	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HG:34:GLY:O	44:HG:60:LYS:HA	2.21	0.40
45:HH:286:VAL:HG21	45:HH:325:GLU:CD	2.42	0.40
44:HK:7:ILE:O	44:HK:137:VAL:HA	2.21	0.40
44:HK:55:GLU:OE2	44:HK:57:GLY:N	2.50	0.40
44:HK:306:ASP:HB3	44:HK:309:HIS:CE1	2.55	0.40
44:HM:242:LEU:CD1	44:HM:252:ILE:H	2.35	0.40
44:HM:292:THR:HG22	44:HM:319:TYR:CE2	2.54	0.40
44:HM:385:ALA:HA	44:HM:388:PHE:HD2	1.85	0.40
45:HN:65:LEU:HD21	45:HN:85:PHE:CE2	2.57	0.40
44:IA:68:LEU:HD21	44:IA:118:CYS:SG	2.60	0.40
44:IA:141:VAL:CG1	44:IA:172:TYR:HD1	2.34	0.40
44:IA:203:MET:HB3	44:IA:303:ALA:CB	2.51	0.40
44:IA:279:GLU:OE1	44:IA:280:LYS:HD2	2.21	0.40
44:IA:311:LYS:HB2	44:IA:382:THR:CG2	2.50	0.40
44:IA:407:TRP:CZ2	45:IB:258:ILE:HG21	2.56	0.40
45:IB:287:PRO:CA	45:IB:290:THR:HG22	2.43	0.40
45:IB:392:LYS:CG	45:IB:395:LEU:HD22	2.52	0.40
44:IC:269:LEU:N	44:IC:379:SER:O	2.54	0.40
45:ID:28:HIS:NE2	45:ID:241:ARG:HD2	2.36	0.40
45:ID:393:ALA:O	45:ID:394:PHE:HB2	2.22	0.40
44:IE:101:ASN:ND2	45:IF:252:LYS:HE2	2.37	0.40
44:IE:178:SER:OG	45:IF:347:ASN:HB3	2.21	0.40
45:IF:325:GLU:HA	45:IF:328:GLU:CG	2.48	0.40
45:IF:391:ARG:HG3	45:IF:391:ARG:HH11	1.85	0.40
44:IG:7:ILE:HD12	44:IG:66:VAL:CG1	2.51	0.40
44:IG:105:ARG:NH1	45:IH:251:ARG:HD3	2.35	0.40
44:IG:171:ILE:HD12	44:IG:171:ILE:N	2.37	0.40
44:IG:317:MET:O	44:IG:318:MET:CE	2.69	0.40
45:IH:131:GLN:O	45:IH:163:ILE:HG12	2.21	0.40
45:IH:135:ILE:N	45:IH:165:GLU:O	2.49	0.40
45:IH:167:PHE:CE2	45:IH:233:MET:SD	3.15	0.40
44:II:4:VAL:HG11	44:II:52:PHE:HE1	1.86	0.40
44:II:13:GLY:HA2	44:II:16:VAL:HG12	2.03	0.40
44:IK:7:ILE:CD1	44:IK:66:VAL:HG12	2.51	0.40
44:IK:199:ASP:O	44:IK:200:VAL:HG23	2.22	0.40
45:IL:6:HIS:HD2	45:IL:134:GLN:OE1	2.05	0.40
45:IL:52:ASN:CG	45:IL:53:GLU:H	2.24	0.40
45:IL:192:LEU:CD1	45:IL:196:ALA:HB2	2.51	0.40
44:IM:270:SER:HB3	44:IM:378:ILE:CD1	2.50	0.40
44:JA:185:TYR:CA	44:JA:188:ILE:HG22	2.50	0.40
45:JB:35:THR:HG23	45:JB:37:HIS:ND1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JB:342:VAL:HG13	45:JB:342:VAL:O	2.21	0.40
45:JB:425:TYR:HD1	45:JB:428:ALA:HB2	1.86	0.40
44:JC:185:TYR:CE1	44:JC:398:MET:HE3	2.56	0.40
44:JC:215:ARG:HH22	44:JC:299:ALA:HB1	1.86	0.40
45:JD:77:ARG:HD2	45:JD:82:GLY:O	2.21	0.40
45:JD:182:PRO:HA	45:JD:185:ALA:HB3	2.03	0.40
44:JE:222:PRO:HG2	45:JF:324:LYS:HB2	2.04	0.40
45:JF:50:TYR:O	45:JF:51:TYR:HD1	2.04	0.40
45:JF:113:ILE:CD1	45:JF:150:LEU:HG	2.51	0.40
45:JF:251:ARG:HH11	45:JF:251:ARG:HG2	1.87	0.40
44:JG:166:LYS:HD2	44:JG:198:THR:HA	2.02	0.40
44:JG:209:ILE:HG21	44:JG:227:LEU:HG	2.01	0.40
44:JG:343:PHE:HZ	44:JG:351:PHE:CE1	2.39	0.40
45:JH:242:PHE:CG	45:JH:356:ILE:HB	2.56	0.40
44:JI:277:SER:OG	44:JI:278:ALA:N	2.53	0.40
45:JJ:213:ARG:HH21	45:JJ:297:LYS:HB3	1.86	0.40
44:JK:151:SER:HB2	44:JK:193:SER:CB	2.51	0.40
45:JL:241:ARG:NH1	45:JL:241:ARG:HB2	2.36	0.40
45:JL:359:LYS:HE2	45:JL:359:LYS:HB3	1.93	0.40
44:JM:67:PHE:HB2	44:JM:92:LEU:CG	2.33	0.40
44:JM:103:PHE:CD2	44:JM:189:LEU:HD13	2.57	0.40
44:JM:115:VAL:HG22	44:JM:119:LEU:HD23	2.02	0.40
45:JN:149:THR:O	45:JN:152:ILE:HB	2.21	0.40
45:JN:269:GLY:CA	45:JN:299:MET:HA	2.51	0.40
45:JN:328:GLU:O	45:JN:332:ASN:HB2	2.21	0.40
45:KB:232:ALA:O	45:KB:235:GLY:N	2.48	0.40
45:KB:315:ALA:H	45:KB:350:LYS:CE	2.28	0.40
44:KC:101:ASN:OD1	45:KD:252:LYS:HE2	2.21	0.40
44:KC:210:TYR:OH	44:KC:224:TYR:HE1	2.04	0.40
44:KC:236:SER:O	44:KC:240:ALA:N	2.54	0.40
44:KE:175:PRO:CD	44:KE:207:GLU:OE2	2.69	0.40
44:KE:210:TYR:OH	44:KE:224:TYR:HE1	2.04	0.40
44:KE:260:VAL:HG23	44:KE:265:ILE:O	2.22	0.40
45:KF:173:PRO:CD	45:KF:380:ARG:HD2	2.50	0.40
45:KF:202:ILE:CD1	45:KF:229:VAL:HG13	2.51	0.40
44:KG:22:GLU:HG3	44:KG:83:TYR:CE2	2.56	0.40
44:KG:132:LEU:HD23	44:KG:132:LEU:N	2.36	0.40
44:KG:376:CYS:C	44:KG:377:MET:HE2	2.41	0.40
45:KH:113:ILE:O	45:KH:116:VAL:HG12	2.21	0.40
44:KI:398:MET:HE2	45:KJ:345:ILE:HA	2.04	0.40
45:KJ:80:PRO:O	45:KJ:81:PHE:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:KK:195:LEU:HD12	44:KK:265:ILE:HA	2.01	0.40
44:KK:292:THR:HG23	44:KK:293:ASN:N	2.36	0.40
44:KK:311:LYS:HB3	44:KK:344:VAL:CB	2.51	0.40
44:KM:71:GLU:OE1	44:KM:73:THR:N	2.55	0.40
44:KM:183:GLU:CG	44:KM:184:PRO:HD3	2.52	0.40
45:KN:62:ARG:HG2	45:KN:62:ARG:O	2.20	0.40
45:KN:80:PRO:O	45:KN:81:PHE:HB2	2.21	0.40
45:KN:206:ALA:O	45:KN:210:ILE:HG13	2.20	0.40
45:KN:213:ARG:C	45:KN:213:ARG:HD3	2.42	0.40
45:KN:252:LYS:CD	45:KN:350:LYS:HZ1	2.34	0.40
44:LA:91:GLN:HG3	44:LA:92:LEU:HD12	2.03	0.40
44:LA:184:PRO:HA	44:LA:187:SER:OG	2.21	0.40
44:LA:265:ILE:HG13	44:LA:432:TYR:CE1	2.56	0.40
45:LB:39:ASP:H	45:LB:43:GLN:HE22	1.69	0.40
45:LF:242:PHE:HA	45:LF:243:PRO:HD3	1.96	0.40
45:LF:278:SER:CB	45:LF:282:ARG:HH21	2.29	0.40
45:LF:290:THR:HG23	45:LF:291:GLN:N	2.36	0.40
45:LF:334:GLN:HE21	45:LF:349:ILE:CD1	2.26	0.40
44:LG:256:GLN:O	45:LJ:397:TRP:CZ2	2.75	0.40
44:LI:262:TYR:HA	45:LL:396:HIS:ND1	2.36	0.40
45:LJ:7:ILE:HD12	45:LJ:151:LEU:HD23	2.04	0.40
45:LL:104:GLY:O	45:LL:147:MET:HG3	2.21	0.40
45:LL:167:PHE:CE2	45:LL:233:MET:CG	3.03	0.40
45:LL:336:LYS:O	45:LL:336:LYS:HG3	2.22	0.40
44:LM:5:ILE:HB	44:LM:135:PHE:CD1	2.57	0.40
45:LN:105:HIS:ND1	45:LN:105:HIS:O	2.54	0.40
45:LN:166:THR:OG1	45:LN:199:CYS:HA	2.21	0.40
45:LN:366:THR:O	45:LN:366:THR:HG23	2.20	0.40
44:MA:141:VAL:CG2	44:MA:187:SER:HA	2.51	0.40
44:MA:176:GLN:HG2	44:MA:177:VAL:N	2.37	0.40
44:MA:203:MET:CE	44:MA:203:MET:HA	2.50	0.40
44:MA:254:GLU:HA	44:MA:257:THR:CG2	2.51	0.40
45:MB:62:ARG:HG2	45:MB:62:ARG:O	2.21	0.40
45:MB:391:ARG:HD2	45:MB:391:ARG:HA	1.83	0.40
44:MC:14:ILE:CD1	44:MC:75:ILE:HD11	2.50	0.40
45:MD:20:PHE:HA	45:MD:23:VAL:HG22	2.02	0.40
45:MD:342:VAL:HG22	45:MD:343:GLU:N	2.36	0.40
44:ME:224:TYR:O	44:ME:228:ASN:N	2.49	0.40
44:ME:265:ILE:HG23	44:ME:432:TYR:HH	1.81	0.40
44:ME:289:ALA:HA	44:ME:331:SER:OG	2.22	0.40
45:MF:113:ILE:CD1	45:MF:151:LEU:HA	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:MG:164:LYS:HZ2	44:MG:164:LYS:HG2	1.67	0.40
44:MG:328:VAL:HG21	44:MG:353:VAL:CG2	2.51	0.40
44:MG:331:SER:O	44:MG:334:THR:HB	2.21	0.40
44:MG:389:SER:O	44:MG:392:ASP:HB3	2.21	0.40
44:MI:238:LEU:HG	44:MI:255:PHE:HE2	1.85	0.40
45:MJ:7:ILE:HB	45:MJ:135:ILE:HD11	2.02	0.40
45:MJ:156:ARG:NH1	45:MJ:159:TYR:O	2.54	0.40
44:MK:372:MET:C	44:MK:373:ARG:HD2	2.41	0.40
44:MK:388:PHE:CD2	44:MK:425:LEU:HD22	2.56	0.40
45:ML:170:VAL:O	45:ML:170:VAL:HG23	2.21	0.40
45:ML:216:LYS:CG	45:ML:275:SER:HB2	2.52	0.40
45:ML:285:THR:O	45:ML:289:LEU:HD23	2.21	0.40
44:MM:188:ILE:HD13	44:MM:395:PHE:CD1	2.56	0.40
45:MN:99:ASN:HA	45:MN:142:GLY:HA3	2.03	0.40
45:MN:285:THR:CB	45:MN:287:PRO:HD2	2.51	0.40
45:MN:342:VAL:HG11	45:MN:344:TRP:NE1	2.37	0.40
44:NA:1:MET:HE2	44:NA:130:THR:HG23	2.03	0.40
44:NA:248:LEU:HD11	45:ND:222:TYR:OH	2.21	0.40
45:NB:116:VAL:O	45:NB:119:VAL:HG12	2.22	0.40
45:NB:342:VAL:HG13	45:NB:345:ILE:CG2	2.49	0.40
44:NC:51:THR:HG21	44:NC:243:ARG:HB3	2.02	0.40
45:ND:101:TRP:HD1	45:ND:145:SER:OG	2.05	0.40
45:ND:217:LEU:HD11	45:ND:220:PRO:HB3	2.02	0.40
45:ND:267:MET:CE	45:ND:374:ILE:HG23	2.52	0.40
44:NE:7:ILE:HG23	44:NE:66:VAL:CG1	2.51	0.40
44:NE:288:VAL:HG21	44:NE:327:ASP:CB	2.52	0.40
45:NF:64:ILE:HG13	45:NF:89:ASN:CG	2.42	0.40
44:NG:176:GLN:CD	45:NH:331:LEU:HD21	2.40	0.40
44:NG:188:ILE:HG23	44:NG:189:LEU:N	2.36	0.40
45:NH:31:ASP:OD1	45:NH:34:GLY:N	2.54	0.40
44:NI:121:ARG:HA	44:NI:121:ARG:HE	1.85	0.40
44:NI:183:GLU:N	44:NI:184:PRO:CD	2.84	0.40
44:NI:210:TYR:HD1	44:NI:227:LEU:HD11	1.86	0.40
44:NI:226:ASN:O	44:NI:229:ARG:HG2	2.21	0.40
44:NI:259:LEU:HD12	44:NI:259:LEU:HA	1.88	0.40
45:NJ:11:GLN:CG	45:NJ:72:THR:HG21	2.48	0.40
45:NJ:290:THR:HG23	45:NJ:291:GLN:N	2.35	0.40
44:NK:16:VAL:HG12	44:NK:231:ILE:CD1	2.52	0.40
44:NK:19:ALA:HA	44:NK:22:GLU:CG	2.50	0.40
44:NK:156:ARG:O	44:NK:159:VAL:HG22	2.21	0.40
45:NL:343:GLU:N	45:NL:343:GLU:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NM:183:GLU:HG2	44:NM:184:PRO:N	2.34	0.40
44:NM:189:LEU:CD2	44:NM:421:ALA:HB2	2.51	0.40
45:NN:68:LEU:HG	45:NN:68:LEU:O	2.20	0.40
44:OA:205:ASP:CG	44:OA:303:ALA:HA	2.41	0.40
45:OB:46:ARG:HB2	45:OB:241:ARG:CA	2.51	0.40
45:OB:116:VAL:CA	45:OB:119:VAL:HG12	2.47	0.40
45:OB:133:PHE:HB2	45:OB:164:MET:CG	2.51	0.40
44:OC:71:GLU:HA	44:OC:72:PRO:HD3	1.89	0.40
44:OC:183:GLU:N	44:OC:184:PRO:CD	2.84	0.40
44:OC:223:THR:HB	45:OD:322:SER:HB2	2.03	0.40
44:OC:313:MET:HB3	44:OC:380:ASN:HB3	2.04	0.40
44:OC:324:VAL:HG12	44:OC:325:PRO:CD	2.51	0.40
45:OD:201:VAL:HG22	45:OD:202:ILE:H	1.84	0.40
45:OD:329:GLN:O	45:OD:333:VAL:HG23	2.22	0.40
44:OE:86:LEU:HD23	44:OE:87:PHE:CE1	2.57	0.40
44:OE:276:ILE:HD12	44:OE:286:LEU:HD21	2.02	0.40
45:OF:149:THR:O	45:OF:152:ILE:HB	2.22	0.40
45:OF:286:VAL:HA	45:OF:289:LEU:HD12	2.03	0.40
44:OG:93:ILE:HD11	44:OG:121:ARG:HG3	2.02	0.40
44:OG:343:PHE:HZ	44:OG:351:PHE:CZ	2.39	0.40
45:OH:114:ASP:O	45:OH:117:LEU:N	2.54	0.40
45:OH:242:PHE:CE2	45:OH:356:ILE:HG21	2.56	0.40
44:OI:107:HIS:HB2	44:OI:148:GLY:HA2	2.04	0.40
44:OI:126:ALA:CB	44:OI:132:LEU:HD21	2.47	0.40
45:OJ:233:MET:HA	45:OJ:236:VAL:HG23	2.04	0.40
44:OK:5:ILE:HG22	44:OK:6:SER:N	2.36	0.40
45:OL:306:ARG:HD3	45:OL:340:TYR:HE2	1.86	0.40
44:OM:98:ASP:OD1	44:OM:99:ALA:N	2.54	0.40
44:OM:317:MET:O	44:OM:353:VAL:HA	2.22	0.40
45:ON:167:PHE:CD1	45:ON:200:MET:HB2	2.56	0.40
44:PA:221:ARG:CD	45:PB:322:SER:HB3	2.51	0.40
45:PB:293:MET:HG3	45:PB:294:PHE:CD1	2.57	0.40
45:PB:317:PHE:CE2	45:PB:326:VAL:HG13	2.56	0.40
45:PB:329:GLN:O	45:PB:333:VAL:HG23	2.21	0.40
45:PB:342:VAL:HG13	45:PB:345:ILE:HG22	2.03	0.40
44:PC:425:LEU:CD2	44:PC:428:LEU:HD23	2.50	0.40
45:PD:215:LEU:HD13	45:PD:217:LEU:HD23	2.04	0.40
45:PD:258:ILE:CG2	45:PD:266:PHE:HZ	2.35	0.40
44:PE:232:ALA:HA	44:PE:235:ILE:HG12	2.04	0.40
45:PF:101:TRP:HZ3	45:PF:403:MET:SD	2.44	0.40
45:PF:318:ARG:HH11	45:PF:358:PRO:HG3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PG:70:LEU:N	44:PG:70:LEU:HD22	2.37	0.40
44:PG:404:PHE:CZ	45:PH:259:PRO:HB3	2.57	0.40
45:PH:193:VAL:HG12	45:PH:265:PHE:CE1	2.54	0.40
45:PH:313:ALA:CB	45:PH:369:GLY:HA3	2.51	0.40
44:PI:156:ARG:O	44:PI:159:VAL:HG12	2.20	0.40
44:PI:229:ARG:HH11	44:PI:363:VAL:HG11	1.85	0.40
44:PI:301:MET:CE	44:PI:307:PRO:HG3	2.51	0.40
44:PI:326:LYS:CA	45:PL:208:TYR:HE1	2.34	0.40
45:PJ:139:LEU:HD21	45:PJ:188:SER:OG	2.22	0.40
45:PJ:184:ASN:OD1	45:PJ:185:ALA:N	2.54	0.40
45:PJ:345:ILE:O	45:PJ:345:ILE:CG2	2.66	0.40
44:PK:253:THR:HG23	44:PK:254:GLU:N	2.37	0.40
44:QC:172:TYR:HB3	44:QC:173:PRO:HD2	2.03	0.40
45:QD:163:ILE:HG21	45:QD:251:ARG:HD3	2.04	0.40
45:QD:255:VAL:CA	44:QE:407:TRP:HZ3	2.30	0.40
45:QD:304:ASP:CG	45:QD:306:ARG:HG2	2.41	0.40
44:QE:289:ALA:HA	44:QE:292:THR:HG22	2.04	0.40
45:QF:252:LYS:HD3	44:QG:100:ALA:HA	2.04	0.40
44:QG:16:VAL:HG23	44:QG:17:GLY:N	2.36	0.40
44:QG:20:CYS:HA	44:QG:232:ALA:HB1	2.04	0.40
44:QG:239:THR:C	44:QG:243:ARG:HE	2.23	0.40
45:QH:113:ILE:O	45:QH:116:VAL:HG12	2.22	0.40
45:QH:267:MET:SD	45:QH:299:MET:HE1	2.61	0.40
44:QI:255:PHE:O	44:QI:259:LEU:HG	2.22	0.40
44:QI:380:ASN:OD1	44:QI:380:ASN:O	2.38	0.40
45:QJ:217:LEU:HD11	45:QJ:220:PRO:CG	2.51	0.40
45:QJ:255:VAL:HA	44:QK:407:TRP:HZ3	1.78	0.40
44:QK:183:GLU:N	44:QK:184:PRO:CD	2.83	0.40
44:QK:268:MET:HB2	44:QK:379:SER:C	2.41	0.40
44:QK:387:VAL:O	44:QK:391:LEU:HD13	2.21	0.40
45:QL:69:GLU:OE2	45:QL:72:THR:HG22	2.21	0.40
45:QL:345:ILE:HG23	45:QL:345:ILE:O	2.22	0.40
44:QM:85:GLN:C	44:QM:86:LEU:HD22	2.41	0.40
44:QM:96:LYS:HD2	44:QM:97:GLU:HB2	2.03	0.40
44:QM:114:ILE:O	44:QM:117:LEU:HB2	2.21	0.40
44:QM:175:PRO:HB3	44:QM:390:ARG:CZ	2.51	0.40
44:QM:216:ASN:CG	44:QM:275:ILE:HG22	2.42	0.40
44:QM:320:ARG:HB3	44:QM:356:ASN:CB	2.39	0.40
45:QN:101:TRP:HE1	45:QN:146:GLY:HA2	1.86	0.40
45:QN:401:GLU:HB2	45:QN:403:MET:HE1	2.03	0.40
44:RA:234:VAL:HA	44:RA:237:SER:CB	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:RA:433:GLU:O	44:RA:437:ILE:HG23	2.21	0.40
45:RB:375:GLN:O	45:RB:378:PHE:N	2.55	0.40
44:RC:30:ILE:HD13	44:RC:53:PHE:CZ	2.57	0.40
44:RC:143:GLY:HA3	46:RC:501:GTP:O3B	2.22	0.40
44:RC:413:MET:CG	44:RC:417:GLU:HG3	2.52	0.40
45:RD:36:TYR:CZ	45:RD:38:GLY:HA3	2.56	0.40
45:RD:50:TYR:OH	45:RD:237:THR:OG1	2.29	0.40
45:RD:149:THR:HG23	45:RD:150:LEU:N	2.36	0.40
45:RD:293:MET:HE1	45:RD:315:ALA:HA	2.02	0.40
45:RD:309:ARG:O	45:RD:372:THR:HG22	2.21	0.40
44:RE:7:ILE:HG12	44:RE:136:LEU:O	2.21	0.40
44:RE:66:VAL:HG21	44:RE:122:ILE:CD1	2.48	0.40
44:RE:262:TYR:OH	45:RF:391:ARG:O	2.22	0.40
45:RF:9:GLY:O	45:RF:137:HIS:HA	2.21	0.40
45:RF:206:ALA:HB1	45:RF:300:MET:HA	2.03	0.40
45:RF:264:HIS:O	45:RF:265:PHE:HD2	2.04	0.40
45:RF:309:ARG:NH2	45:RF:426:GLN:O	2.54	0.40
44:RG:102:ASN:CB	44:RG:105:ARG:HG3	2.50	0.40
44:RI:35:GLN:CD	44:RI:60:LYS:HB3	2.42	0.40
44:RI:71:GLU:HA	44:RI:72:PRO:HD3	1.89	0.40
44:RI:105:ARG:HA	44:RI:109:THR:OG1	2.21	0.40
45:RJ:62:ARG:HB2	45:RJ:123:GLU:CG	2.52	0.40
44:RK:277:SER:O	44:RK:281:ALA:N	2.54	0.40
45:RL:4:ILE:O	45:RL:62:ARG:NE	2.54	0.40
44:RM:9:VAL:HG13	44:RM:9:VAL:O	2.21	0.40
44:RM:167:LEU:HG	44:RM:200:VAL:HB	2.03	0.40
44:RM:321:GLY:HA2	44:RM:357:TYR:O	2.21	0.40
44:RM:362:VAL:HG13	44:RM:362:VAL:O	2.20	0.40
45:RN:77:ARG:HD2	45:RN:90:PHE:CE2	2.56	0.40
45:RN:152:ILE:O	45:RN:152:ILE:HG22	2.21	0.40
44:SA:12:GLY:O	44:SA:16:VAL:N	2.53	0.40
44:SA:259:LEU:HD23	44:SA:314:ALA:HB1	2.02	0.40
45:SB:14:ASN:OD1	45:SB:72:THR:HG21	2.20	0.40
45:SD:165:GLU:OE2	45:SD:250:LEU:CD1	2.69	0.40
45:SD:285:THR:O	45:SD:286:VAL:C	2.60	0.40
44:SE:356:ASN:OD1	44:SE:357:TYR:N	2.47	0.40
45:SF:99:ASN:CA	45:SF:142:GLY:HA3	2.50	0.40
45:SF:324:LYS:HD3	44:SG:222:PRO:HG2	2.01	0.40
45:SH:69:GLU:HA	45:SH:70:PRO:HD3	1.90	0.40
45:SH:84:LEU:O	45:TH:281:TYR:HE2	2.04	0.40
45:SH:237:THR:HG22	45:SH:250:LEU:HD21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:SI:51:THR:C	44:SI:52:PHE:HD1	2.24	0.40
44:SI:230:LEU:HD22	44:SI:368:LEU:HD21	2.03	0.40
44:SI:291:ILE:HG13	44:SI:292:THR:H	1.87	0.40
44:SI:305:CYS:SG	44:SI:306:ASP:N	2.95	0.40
44:SI:349:THR:HG23	44:SI:349:THR:O	2.22	0.40
44:SI:405:VAL:O	44:SI:409:VAL:HG23	2.22	0.40
45:SJ:67:ASP:OD2	45:SJ:69:GLU:HG3	2.20	0.40
44:SK:265:ILE:HG23	44:SK:432:TYR:HE1	1.86	0.40
45:SL:68:LEU:HD23	45:SL:97:ALA:CA	2.51	0.40
44:SM:212:ILE:HG23	44:SM:216:ASN:CG	2.41	0.40
44:SM:259:LEU:HD21	44:SM:316:SER:CB	2.51	0.40
44:SM:363:VAL:HG13	44:SM:363:VAL:O	2.21	0.40
45:SN:71:GLY:HA2	45:SN:74:ASP:OD2	2.21	0.40
45:SN:211:CYS:HB3	45:SN:217:LEU:CG	2.51	0.40
45:SN:391:ARG:O	45:SN:392:LYS:HB2	2.22	0.40
45:TB:52:ASN:HB2	45:TB:60:VAL:HG13	2.03	0.40
45:TB:325:GLU:CA	45:TB:328:GLU:HG2	2.43	0.40
44:TC:32:PRO:HA	44:TC:83:TYR:HD1	1.86	0.40
44:TC:107:HIS:ND1	44:TC:107:HIS:O	2.54	0.40
44:TC:144:GLY:N	46:TC:501:GTP:PG	2.95	0.40
44:TC:256:GLN:HG3	44:TC:260:VAL:HG21	2.03	0.40
44:TC:317:MET:HE2	44:TC:352:LYS:N	2.36	0.40
44:TC:435:VAL:HA	45:TD:391:ARG:HH21	1.87	0.40
45:TD:89:ASN:O	45:TD:91:VAL:HG13	2.21	0.40
45:TD:169:VAL:HG13	45:TD:202:ILE:O	2.21	0.40
45:TD:217:LEU:HD12	45:TD:217:LEU:O	2.21	0.40
44:TE:3:GLU:O	44:TE:133:GLN:HG2	2.21	0.40
44:TE:83:TYR:CB	44:TE:86:LEU:HB3	2.44	0.40
44:TE:292:THR:HG23	44:TE:293:ASN:N	2.36	0.40
45:TF:26:ASP:OD1	45:TF:359:LYS:HE2	2.20	0.40
45:TF:86:ARG:HD3	45:TF:89:ASN:CG	2.42	0.40
45:TF:323:THR:HG21	44:TG:224:TYR:CE1	2.57	0.40
45:TH:47:ILE:HD13	45:TH:59:TYR:HE2	1.82	0.40
45:TH:116:VAL:O	45:TH:120:VAL:HG22	2.21	0.40
45:TJ:30:ILE:HD11	45:TJ:44:LEU:HD21	2.03	0.40
45:TJ:164:MET:HE1	45:TJ:166:THR:HG21	2.03	0.40
45:TJ:262:ARG:CG	45:TJ:263:LEU:HD12	2.45	0.40
45:TJ:345:ILE:HG13	44:TK:398:MET:HE1	2.02	0.40
44:TK:23:LEU:HD11	44:TK:361:THR:HG23	2.03	0.40
44:TK:325:PRO:O	44:TK:328:VAL:N	2.54	0.40
45:TL:66:MET:HB3	45:TL:116:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UA:272:TYR:HA	44:UA:376:CYS:SG	2.62	0.40
45:UB:318:ARG:HA	45:UB:354:CYS:O	2.20	0.40
44:UC:247:ALA:HB1	45:UD:222:TYR:CD2	2.56	0.40
45:UD:189:VAL:O	45:UD:192:LEU:N	2.53	0.40
45:UD:259:PRO:HA	44:UE:404:PHE:CE1	2.56	0.40
45:UD:380:ARG:HE	45:UD:380:ARG:HB3	1.67	0.40
44:UE:257:THR:CA	45:UF:397:TRP:HH2	2.32	0.40
44:UE:401:LYS:HE2	44:UE:403:ALA:CB	2.46	0.40
45:UF:189:VAL:HG12	45:UF:415:MET:CE	2.49	0.40
45:UF:189:VAL:CB	45:UF:415:MET:HE3	2.48	0.40
45:UF:293:MET:HE1	45:UF:365:VAL:HG11	2.03	0.40
45:UF:304:ASP:OD1	45:UF:305:PRO:HD2	2.21	0.40
45:UF:382:ALA:O	45:UF:386:THR:HG22	2.22	0.40
44:UG:67:PHE:C	44:UG:68:LEU:HD12	2.42	0.40
44:UG:71:GLU:HA	44:UG:72:PRO:HD3	1.95	0.40
44:UG:115:VAL:HG11	44:UG:152:LEU:HD23	2.03	0.40
44:UG:375:VAL:O	44:UG:375:VAL:HG13	2.21	0.40
45:UH:40:SER:O	45:UH:43:GLN:HB2	2.22	0.40
45:UH:210:ILE:HD13	45:UH:300:MET:HE1	2.03	0.40
45:UH:247:ASN:O	45:UH:252:LYS:NZ	2.50	0.40
45:UH:378:PHE:HB3	45:UH:419:VAL:CG2	2.49	0.40
44:UI:51:THR:CG2	44:UI:243:ARG:HB3	2.49	0.40
44:UI:183:GLU:HG2	44:UI:184:PRO:N	2.37	0.40
45:UJ:166:THR:O	45:UJ:200:MET:N	2.54	0.40
45:UJ:206:ALA:C	45:UJ:209:ASP:H	2.22	0.40
45:UJ:255:VAL:HA	44:UK:407:TRP:CZ3	2.54	0.40
45:UJ:322:SER:OG	44:UK:221:ARG:HD2	2.21	0.40
45:UJ:342:VAL:CG2	45:UJ:344:TRP:CD1	3.03	0.40
44:UK:109:THR:HA	44:UK:112:LYS:NZ	2.37	0.40
45:UN:52:ASN:ND2	45:UN:62:ARG:HB3	2.37	0.40
45:UN:247:ASN:OD1	45:UN:247:ASN:O	2.40	0.40
44:VA:176:GLN:HG2	44:VA:177:VAL:N	2.36	0.40
44:VA:212:ILE:HD11	44:VA:299:ALA:O	2.21	0.40
44:VA:213:CYS:CA	44:VA:217:LEU:HD12	2.34	0.40
44:VA:311:LYS:CD	44:VA:342:GLN:HG3	2.40	0.40
44:VA:317:MET:SD	44:VA:332:ILE:HD11	2.60	0.40
44:VA:387:VAL:CA	44:VA:390:ARG:HG2	2.48	0.40
45:VB:164:MET:H	45:VB:197:ASP:CB	2.34	0.40
45:VB:222:TYR:CD1	48:VB:502:GDP:N1	2.90	0.40
45:VB:321:MET:HG2	45:VB:363:MET:CE	2.50	0.40
44:VC:181:VAL:HG22	45:VD:256:ASN:CG	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VC:407:TRP:CZ2	45:VD:258:ILE:HB	2.55	0.40
45:VD:54:ALA:HB1	45:WD:282:ARG:O	2.22	0.40
45:VD:313:ALA:HA	45:VD:369:GLY:HA2	2.03	0.40
44:VE:26:LEU:CD2	44:VE:364:PRO:HD3	2.49	0.40
44:VE:278:ALA:HB2	44:VE:369:ALA:HB1	2.03	0.40
45:VF:24:ILE:HD11	45:VF:234:SER:HB3	2.03	0.40
45:VF:192:LEU:CG	45:VF:196:ALA:HB2	2.51	0.40
45:VF:293:MET:SD	45:VF:294:PHE:CE2	3.15	0.40
44:VG:264:ARG:O	44:VG:266:HIS:CD2	2.74	0.40
44:VG:348:PRO:HD2	45:VJ:388:MET:HE3	2.03	0.40
45:VH:278:SER:O	45:VH:281:TYR:N	2.25	0.40
44:VI:122:ILE:HG22	44:VI:161:TYR:OH	2.22	0.40
45:VJ:92:PHE:HD2	45:VJ:93:GLY:O	2.04	0.40
45:VJ:301:CYS:HB2	45:VJ:377:MET:HE3	2.02	0.40
44:VK:143:GLY:HA3	46:VK:501:GTP:O5'	2.21	0.40
44:VK:182:VAL:C	44:VK:184:PRO:HD2	2.41	0.40
44:VK:304:LYS:HG3	44:VK:304:LYS:O	2.22	0.40
44:VK:407:TRP:CZ3	45:VL:255:VAL:HG22	2.56	0.40
45:VL:173:PRO:CD	45:VL:380:ARG:HD3	2.51	0.40
44:VM:268:MET:HE3	44:VM:380:ASN:N	2.36	0.40
45:VN:143:THR:HG22	48:VN:501:GDP:O2B	2.21	0.40
45:VN:144:GLY:O	45:VN:148:GLY:N	2.53	0.40
44:WA:2:ARG:NH2	45:WD:70:PRO:HD2	2.37	0.40
44:WA:7:ILE:CD1	44:WA:66:VAL:HG22	2.51	0.40
45:WB:42:LEU:HD12	45:WB:42:LEU:N	2.37	0.40
45:WB:105:HIS:NE2	45:WB:150:LEU:HD12	2.36	0.40
45:WB:135:ILE:CB	45:WB:166:THR:HG22	2.50	0.40
44:WC:284:GLU:O	44:WC:286:LEU:HD23	2.22	0.40
44:WC:404:PHE:CZ	45:WD:259:PRO:HG3	2.56	0.40
45:WD:178:THR:HG22	45:WD:180:VAL:HG12	1.97	0.40
45:WD:221:THR:HG23	45:WD:224:ASP:N	2.24	0.40
45:WF:3:GLU:HB3	45:WF:49:VAL:HA	2.03	0.40
45:WF:18:ALA:O	45:WF:22:GLU:HG2	2.21	0.40
45:WF:101:TRP:CZ2	45:WF:149:THR:HG21	2.55	0.40
44:WG:268:MET:HB2	44:WG:380:ASN:HA	2.02	0.40
44:WG:391:LEU:O	44:WG:395:PHE:N	2.41	0.40
44:WI:240:ALA:HA	44:WI:243:ARG:NE	2.35	0.40
45:WJ:77:ARG:O	45:WJ:82:GLY:HA3	2.20	0.40
45:WJ:143:THR:HG22	48:WJ:502:GDP:O1B	2.21	0.40
45:WJ:253:LEU:HD11	45:WJ:314:SER:HB3	2.04	0.40
44:WK:13:GLY:CA	44:WK:16:VAL:HG12	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:WK:258:ASN:HD21	45:WN:178:THR:CG2	2.34	0.40
45:WL:127:CYS:SG	45:WL:130:LEU:HD22	2.61	0.40
45:WL:141:GLY:O	45:WL:145:SER:N	2.46	0.40
45:WL:334:GLN:HB2	45:WL:349:ILE:HD11	2.03	0.40
44:WM:181:VAL:CG1	45:WN:348:ASN:HA	2.51	0.40
44:WM:260:VAL:HG11	44:WM:263:PRO:HA	2.02	0.40
44:WM:302:MET:O	44:WM:302:MET:HG2	2.21	0.40
45:WN:245:GLN:HE21	45:WN:353:ILE:HB	1.86	0.40
45:WN:311:LEU:HD12	45:WN:370:ASN:CG	2.41	0.40
2:0A:152:LYS:HB3	35:7R:82:GLN:NE2	2.35	0.40
7:0F:79:ASN:HD21	45:ED:245:GLN:HE22	1.55	0.40
12:0S:103:LYS:HZ2	45:MB:261:PRO:HB2	1.86	0.40
5:1D:59:GLY:CA	44:EG:279:GLU:HG3	2.50	0.40
5:1D:83:ALA:HA	45:EF:42:LEU:HD13	2.01	0.40
18:1F:149:PRO:HG3	45:HL:212:PHE:CZ	2.57	0.40
20:1J:122:ARG:CD	44:IE:279:GLU:HG2	2.49	0.40
20:1J:274:ASN:ND2	45:IL:276:ARG:HB3	2.37	0.40
22:1L:668:GLN:HE22	44:CE:367:ASP:HA	1.86	0.40
22:1L:826:LYS:HB2	35:7R:177:VAL:CG2	2.47	0.40
10:1N:243:HIS:HB2	44:KG:358:GLN:OE1	2.21	0.40
26:1R:503:ASP:OD1	44:EC:41:THR:N	2.47	0.40
27:1W:118:GLY:HA2	45:LF:276:ARG:NH2	2.36	0.40
5:2D:94:ASN:OD1	44:EK:26:LEU:HD22	2.22	0.40
32:2I:95:LYS:CB	45:GF:332:ASN:HD21	2.15	0.40
10:2N:1:MET:HE2	44:IA:114:ILE:HA	2.03	0.40
13:2T:143:PHE:HE1	44:MG:158:SER:O	2.04	0.40
14:2U:238:SER:O	45:WJ:31:ASP:HB3	2.22	0.40
16:2X:103:ASN:OD1	44:MG:369:ALA:HB1	2.20	0.40
16:3X:56:LYS:CE	44:MM:279:GLU:HG3	2.52	0.40
36:4S:83:ALA:HA	45:WD:108:GLU:OE1	2.21	0.40
16:4X:15:TRP:CG	45:LL:32:PRO:HG2	2.56	0.40
37:5B:150:PHE:CD1	44:NG:364:PRO:HG2	2.55	0.40
38:5F:44:ARG:NE	44:OC:285:GLN:HE22	2.19	0.40
38:5G:173:LYS:HD3	45:KL:193:VAL:O	2.22	0.40
39:5I:103:GLN:HE22	45:JD:390:ARG:HH11	1.68	0.40
39:5K:44:ARG:NE	44:JK:426:ALA:HB3	2.36	0.40
35:5R:262:TRP:CD1	35:5R:263:ASN:N	2.90	0.40
41:6G:276:PRO:HG3	41:6G:284:LYS:CD	2.51	0.40
35:6R:363:ASN:OD1	35:6R:363:ASN:N	2.54	0.40
35:7R:219:LYS:HE3	45:BD:75:SER:O	2.21	0.40
35:7R:478:ASN:HD21	35:7R:480:ILE:HB	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:8N:228:UNK:HA	44:RE:370:LYS:HZ3	1.85	0.40
44:AA:153:LEU:O	44:AA:157:LEU:HD23	2.22	0.40
44:AA:317:MET:HE2	44:AA:351:PHE:CD2	2.56	0.40
44:AA:319:TYR:N	44:AA:354:GLY:O	2.39	0.40
44:AA:326:LYS:HE2	45:AD:219:THR:HA	2.04	0.40
44:AA:346:TRP:HE3	44:AA:346:TRP:O	2.04	0.40
45:AB:156:ARG:NH1	45:AB:160:PRO:O	2.55	0.40
44:AC:101:ASN:HD22	45:AD:252:LYS:HZ2	1.69	0.40
44:AC:194:LEU:O	44:AC:194:LEU:HD23	2.20	0.40
44:AC:209:ILE:HG22	44:AC:227:LEU:HD13	2.01	0.40
45:AD:237:THR:HG22	45:AD:250:LEU:CD2	2.38	0.40
45:AD:260:PHE:HB3	45:AD:261:PRO:HD2	2.04	0.40
45:AD:419:VAL:HG13	45:AD:420:SER:N	2.36	0.40
44:AE:62:VAL:CG2	44:AE:63:PRO:HD2	2.51	0.40
44:AE:141:VAL:HG12	44:AE:172:TYR:HA	2.04	0.40
44:AE:195:LEU:HD21	44:AE:264:ARG:CZ	2.52	0.40
45:AF:396:HIS:HA	45:AF:399:THR:HG22	2.04	0.40
44:AG:66:VAL:HG22	44:AG:68:LEU:HD21	2.03	0.40
44:AG:175:PRO:HB3	44:AG:390:ARG:NE	2.36	0.40
44:AG:183:GLU:N	44:AG:184:PRO:CD	2.84	0.40
45:AH:135:ILE:HG22	45:AH:136:THR:N	2.36	0.40
45:AJ:19:LYS:HE3	45:AJ:22:GLU:OE1	2.21	0.40
45:AJ:206:ALA:HB3	45:AJ:300:MET:O	2.22	0.40
44:AM:304:LYS:HA	44:AM:304:LYS:HE2	2.03	0.40
44:AM:385:ALA:HB1	44:AM:429:GLU:OE1	2.21	0.40
45:AN:253:LEU:HA	45:AN:256:ASN:OD1	2.22	0.40
45:AN:253:LEU:HD12	45:AN:257:LEU:CD1	2.52	0.40
44:BA:54:SER:O	44:BA:61:HIS:HA	2.22	0.40
45:BD:4:ILE:HD13	45:BD:250:LEU:HD11	2.02	0.40
44:BE:63:PRO:CG	44:BE:86:LEU:HG	2.48	0.40
44:BE:154:LEU:HD23	44:BE:154:LEU:HA	1.83	0.40
45:BF:263:LEU:HD13	45:BF:422:TYR:CE1	2.56	0.40
45:BF:378:PHE:HD1	45:BF:419:VAL:HG22	1.85	0.40
44:BG:63:PRO:CG	44:BG:86:LEU:HG	2.51	0.40
44:BG:105:ARG:NH1	45:BH:251:ARG:HD2	2.35	0.40
44:BG:394:LYS:NZ	44:BG:394:LYS:HB3	2.36	0.40
45:BH:318:ARG:HB3	45:BH:364:ALA:O	2.21	0.40
44:BI:362:VAL:O	44:BI:362:VAL:HG13	2.22	0.40
45:BJ:197:ASP:O	45:BJ:198:GLU:HG3	2.22	0.40
44:BK:87:PHE:O	44:BK:89:PRO:HD2	2.22	0.40
45:BL:263:LEU:HD22	45:BL:422:TYR:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:378:PHE:HA	45:BL:381:VAL:HG12	2.04	0.40
44:BM:4:VAL:HG11	44:BM:52:PHE:CE1	2.55	0.40
44:BM:137:VAL:HG23	44:BM:168:GLY:CA	2.51	0.40
44:BM:301:MET:HE3	44:BM:307:PRO:HD3	2.03	0.40
45:BN:20:PHE:HE1	45:BN:233:MET:CG	2.35	0.40
45:CB:239:CYS:SG	45:CB:248:SER:N	2.79	0.40
44:CC:319:TYR:OH	44:CC:328:VAL:HG23	2.21	0.40
44:CC:396:ASP:OD2	44:CC:422:ARG:NE	2.49	0.40
45:CD:36:TYR:CZ	45:CD:44:LEU:HG	2.56	0.40
45:CD:261:PRO:CD	44:CE:406:HIS:CD2	3.03	0.40
45:CF:58:ARG:HD3	45:DF:280:GLN:CB	2.51	0.40
45:CF:310:TYR:CE1	45:CF:371:SER:HB3	2.56	0.40
45:CF:395:LEU:HG	45:CF:399:THR:HG23	2.04	0.40
44:CG:3:GLU:HG2	44:CG:64:ARG:CZ	2.52	0.40
44:CG:66:VAL:HG23	44:CG:91:GLN:O	2.22	0.40
44:CG:387:VAL:HA	44:CG:390:ARG:HH11	1.86	0.40
45:CH:25:SER:HB3	45:CH:30:ILE:CG2	2.51	0.40
45:CH:265:PHE:CE2	45:CH:378:PHE:HZ	2.39	0.40
44:CI:246:GLY:HA3	44:CI:249:ASN:OD1	2.21	0.40
45:CJ:100:ASN:OD1	45:CJ:100:ASN:C	2.59	0.40
44:CK:320:ARG:NH1	44:CK:359:PRO:O	2.54	0.40
45:CL:253:LEU:HD21	45:CL:316:LEU:HD11	2.04	0.40
45:CL:311:LEU:CG	45:CL:370:ASN:HB3	2.52	0.40
45:CL:346:PRO:CG	44:CM:394:LYS:HD2	2.52	0.40
45:CL:366:THR:HG23	45:CL:366:THR:O	2.22	0.40
44:CM:172:TYR:HD2	44:CM:203:MET:HG3	1.86	0.40
45:CN:192:LEU:HD12	45:CN:196:ALA:HB2	2.03	0.40
45:CN:217:LEU:HD11	45:CN:220:PRO:CG	2.51	0.40
45:CN:263:LEU:HD21	45:CN:425:TYR:CD2	2.55	0.40
45:CN:270:PHE:HA	45:CN:366:THR:HA	2.02	0.40
44:DA:153:LEU:O	44:DA:157:LEU:HG	2.22	0.40
44:DA:318:MET:O	44:DA:375:VAL:HA	2.21	0.40
45:DB:318:ARG:HA	45:DB:354:CYS:HB3	2.04	0.40
45:DB:393:ALA:O	45:DB:394:PHE:HB3	2.21	0.40
44:DC:216:ASN:OD1	44:DC:275:ILE:O	2.39	0.40
45:DD:8:GLN:HE22	45:DD:16:ILE:CG2	2.34	0.40
44:DE:324:VAL:HG21	45:DF:219:THR:HG21	2.03	0.40
44:DG:188:ILE:CD1	44:DG:425:LEU:HD11	2.35	0.40
44:DG:269:LEU:HD23	44:DG:269:LEU:N	2.37	0.40
45:DH:66:MET:CE	45:DH:147:MET:HG2	2.49	0.40
44:DI:123:ARG:HA	44:DI:161:TYR:OH	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DJ:269:GLY:HA2	45:DJ:300:MET:CE	2.51	0.40
45:DL:167:PHE:CE2	45:DL:200:MET:HG3	2.57	0.40
45:DL:285:THR:H	45:DL:288:GLU:HB2	1.86	0.40
45:DN:9:GLY:O	45:DN:13:GLY:HA3	2.21	0.40
45:EB:286:VAL:HG21	44:EC:221:ARG:NH2	2.36	0.40
44:EC:161:TYR:O	44:EC:164:LYS:HG2	2.21	0.40
44:EC:186:ASN:O	44:EC:190:SER:N	2.35	0.40
44:EC:191:THR:HA	44:EC:194:LEU:CD2	2.51	0.40
44:EC:231:ILE:O	44:EC:234:VAL:HB	2.22	0.40
44:EC:322:ASP:OD2	44:EC:372:MET:CE	2.70	0.40
45:ED:186:THR:HG23	45:ED:415:MET:CE	2.51	0.40
45:ED:242:PHE:CG	45:ED:356:ILE:HD13	2.56	0.40
44:EE:18:ASN:O	44:EE:22:GLU:OE1	2.39	0.40
44:EE:37:PRO:HG3	44:EE:40:LYS:CG	2.52	0.40
45:EF:28:HIS:O	45:EF:43:GLN:HB3	2.21	0.40
44:EG:20:CYS:HA	44:EG:232:ALA:HB1	2.04	0.40
44:EG:188:ILE:HD12	44:EG:188:ILE:H	1.87	0.40
44:EG:384:ILE:HD11	44:EG:387:VAL:HG21	2.03	0.40
45:EH:217:LEU:CD1	45:EH:220:PRO:HG3	2.44	0.40
45:EH:361:LEU:HD23	45:EH:361:LEU:HA	1.90	0.40
44:EI:91:GLN:CG	44:EI:92:LEU:HD12	2.49	0.40
44:EI:317:MET:O	44:EI:353:VAL:HA	2.22	0.40
45:EJ:287:PRO:HB3	45:EJ:329:GLN:HE22	1.86	0.40
44:EK:276:ILE:HD11	44:EK:371:VAL:HG12	2.03	0.40
44:EK:326:LYS:HE2	45:EL:219:THR:HA	2.02	0.40
45:EL:130:LEU:HD11	45:EL:133:PHE:CE1	2.48	0.40
45:EL:323:THR:HG21	44:EM:223:THR:HA	2.00	0.40
44:EM:70:LEU:N	44:EM:70:LEU:HD12	2.36	0.40
44:EM:121:ARG:HH11	44:EM:125:LEU:HD21	1.87	0.40
44:EM:141:VAL:CG1	44:EM:173:PRO:HD3	2.51	0.40
44:EM:210:TYR:CE1	44:EM:222:PRO:HD2	2.56	0.40
44:FA:83:TYR:O	44:FA:86:LEU:HB3	2.20	0.40
44:FA:398:MET:HE1	45:FB:345:ILE:HA	2.03	0.40
45:FB:134:GLN:O	45:FB:135:ILE:HD13	2.22	0.40
45:FB:221:THR:HG22	45:FB:224:ASP:H	1.85	0.40
45:FB:284:LEU:CD1	45:FB:361:LEU:HD22	2.51	0.40
44:FC:276:ILE:HD13	44:FC:281:ALA:HA	2.04	0.40
44:FC:398:MET:CE	45:FD:345:ILE:CD1	2.97	0.40
45:FD:186:THR:HG23	45:FD:187:LEU:H	1.86	0.40
45:FD:219:THR:HA	45:FD:220:PRO:HD3	1.92	0.40
44:FE:9:VAL:HG11	44:FE:153:LEU:CD1	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FE:157:LEU:HA	44:FE:160:ASP:HB2	2.03	0.40
44:FE:170:THR:C	44:FE:171:ILE:HD12	2.42	0.40
44:FE:356:ASN:OD1	44:FE:357:TYR:N	2.53	0.40
44:FE:433:GLU:OE1	44:FE:437:ILE:HD11	2.22	0.40
45:FF:36:TYR:CD2	45:FF:44:LEU:HD11	2.56	0.40
45:FH:389:PHE:HZ	45:FH:405:GLU:OE2	2.04	0.40
45:FJ:161:ASP:HB2	45:FJ:162:ARG:HH21	1.86	0.40
44:FK:288:VAL:HG21	44:FK:327:ASP:CB	2.51	0.40
44:FM:201:ALA:HB3	44:FM:267:PHE:CD2	2.56	0.40
44:FM:234:VAL:HG13	44:FM:376:CYS:SG	2.62	0.40
45:FN:1:MET:SD	45:FN:129:CYS:HB2	2.62	0.40
45:FN:288:GLU:C	45:FN:291:GLN:HG3	2.41	0.40
44:GA:67:PHE:CE2	44:GA:78:VAL:HG21	2.56	0.40
44:GA:311:LYS:HZ1	44:GA:344:VAL:CA	2.33	0.40
45:GB:144:GLY:HA3	48:GB:502:GDP:O1B	2.21	0.40
45:GB:193:VAL:HG11	45:GB:418:LEU:HD22	2.04	0.40
45:GB:201:VAL:HG23	45:GB:301:CYS:SG	2.61	0.40
44:GC:107:HIS:O	44:GC:107:HIS:CG	2.75	0.40
44:GC:437:ILE:O	44:GC:437:ILE:HG13	2.21	0.40
45:GD:321:MET:HB3	45:GD:363:MET:HE1	2.03	0.40
44:GE:222:PRO:O	45:GF:322:SER:HB2	2.21	0.40
44:GE:246:GLY:CA	44:GE:357:TYR:CE2	3.03	0.40
45:GF:210:ILE:O	45:GF:214:THR:OG1	2.37	0.40
45:GF:286:VAL:N	45:GF:287:PRO:CD	2.84	0.40
44:GG:11:GLN:NE2	45:GH:247:ASN:OD1	2.55	0.40
44:GG:187:SER:O	44:GG:190:SER:OG	2.39	0.40
45:GH:162:ARG:NE	45:GH:162:ARG:CA	2.81	0.40
45:GH:303:ALA:N	45:GH:377:MET:HE2	2.35	0.40
44:GI:387:VAL:HG23	44:GI:388:PHE:N	2.36	0.40
45:GJ:65:LEU:HD21	45:GJ:85:PHE:CE2	2.56	0.40
45:GJ:68:LEU:HB3	45:GJ:143:THR:OG1	2.20	0.40
45:GJ:91:VAL:O	45:GJ:91:VAL:HG23	2.22	0.40
45:GJ:113:ILE:CD1	45:GJ:150:LEU:HD22	2.52	0.40
44:GK:254:GLU:OE2	45:GN:98:GLY:HA2	2.21	0.40
45:GL:113:ILE:HA	45:GL:116:VAL:HG12	2.03	0.40
45:GL:200:MET:HE1	45:GL:266:PHE:CB	2.48	0.40
45:GL:318:ARG:HD2	45:GL:318:ARG:O	2.22	0.40
45:GL:380:ARG:HE	45:GL:380:ARG:HB3	1.72	0.40
45:GL:380:ARG:O	45:GL:384:GLN:HG2	2.22	0.40
44:GM:395:PHE:O	44:GM:399:TYR:HB2	2.21	0.40
45:GN:42:LEU:HA	45:GN:45:GLU:CG	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GN:269:GLY:C	45:GN:367:PHE:H	2.20	0.40
45:GN:312:THR:O	45:GN:370:ASN:N	2.53	0.40
44:HA:70:LEU:HD13	44:HA:110:ILE:HD11	2.03	0.40
45:HB:404:ASP:HB2	45:HB:405:GLU:OE1	2.21	0.40
44:HC:324:VAL:CG1	44:HC:326:LYS:HG3	2.50	0.40
45:HD:8:GLN:OE1	45:HD:8:GLN:N	2.54	0.40
45:HD:16:ILE:HD13	45:HD:226:ASN:OD1	2.22	0.40
45:HD:284:LEU:CD1	45:HD:362:LYS:HE2	2.50	0.40
44:HE:256:GLN:HA	44:HE:260:VAL:HG23	2.03	0.40
45:HF:141:GLY:HA2	48:HF:502:GDP:O2A	2.22	0.40
45:HF:149:THR:HG23	45:HF:150:LEU:N	2.37	0.40
45:HF:187:LEU:HD21	45:HF:408:PHE:CE1	2.56	0.40
45:HF:221:THR:HG22	45:HF:224:ASP:CG	2.42	0.40
44:HG:22:GLU:HG3	44:HG:83:TYR:HE2	1.86	0.40
44:HG:67:PHE:O	44:HG:68:LEU:HD22	2.22	0.40
44:HG:220:GLU:C	44:HG:222:PRO:HD3	2.42	0.40
44:HG:386:GLU:O	44:HG:389:SER:OG	2.29	0.40
45:HH:101:TRP:CZ3	45:HH:187:LEU:HD22	2.57	0.40
45:HH:217:LEU:HD12	45:HH:220:PRO:HD3	2.03	0.40
45:HH:362:LYS:HE3	45:HH:363:MET:HE3	2.03	0.40
44:HI:113:GLU:O	44:HI:114:ILE:HD13	2.21	0.40
44:HI:181:VAL:CG1	45:HJ:256:ASN:HA	2.52	0.40
44:HI:210:TYR:CE1	44:HI:227:LEU:HD11	2.55	0.40
45:HJ:127:CYS:SG	45:HJ:130:LEU:HD13	2.62	0.40
44:HK:95:GLY:O	44:HK:96:LYS:HD3	2.22	0.40
44:HK:261:PRO:O	45:HN:394:PHE:N	2.51	0.40
44:HK:418:PHE:O	44:HK:421:ALA:HB3	2.21	0.40
45:HL:173:PRO:CG	45:HL:380:ARG:CD	2.95	0.40
45:HL:192:LEU:CD1	45:HL:196:ALA:HB2	2.52	0.40
45:HL:204:ASN:O	45:HL:207:LEU:HB2	2.21	0.40
44:HM:31:GLN:HB3	44:HM:32:PRO:HD3	2.02	0.40
45:HN:52:ASN:OD1	45:HN:62:ARG:NE	2.55	0.40
45:HN:377:MET:HE2	45:HN:380:ARG:CZ	2.51	0.40
44:IA:11:GLN:N	44:IA:69:ASP:OD2	2.55	0.40
44:IA:195:LEU:HD21	44:IA:264:ARG:NH1	2.37	0.40
44:IA:276:ILE:HG12	44:IA:281:ALA:HA	2.04	0.40
44:IA:288:VAL:HG11	44:IA:327:ASP:HB3	2.03	0.40
45:IB:49:VAL:HG12	45:IB:50:TYR:CE1	2.57	0.40
45:IB:192:LEU:HD12	45:IB:196:ALA:HB2	2.03	0.40
44:IC:3:GLU:OE1	44:IC:3:GLU:N	2.54	0.40
44:IC:195:LEU:CD1	44:IC:428:LEU:HD22	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ID:65:LEU:HD11	45:ID:85:PHE:HD1	1.87	0.40
45:ID:101:TRP:CE3	45:ID:187:LEU:HD23	2.56	0.40
45:ID:178:THR:H	45:ID:181:GLU:CD	2.25	0.40
44:IE:138:PHE:CD1	44:IE:169:PHE:HB2	2.57	0.40
44:IE:186:ASN:OD1	44:IE:187:SER:N	2.55	0.40
44:IE:260:VAL:HG12	44:IE:262:TYR:O	2.22	0.40
45:IF:406:MET:O	45:IF:410:GLU:HG3	2.20	0.40
45:IH:288:GLU:HA	45:IH:291:GLN:CG	2.51	0.40
45:IJ:360:GLY:C	45:IJ:361:LEU:HD22	2.41	0.40
44:IK:184:PRO:CG	44:IK:398:MET:HE2	2.52	0.40
45:IL:165:GLU:OE2	45:IL:250:LEU:CD1	2.69	0.40
45:IL:206:ALA:O	45:IL:210:ILE:HG13	2.22	0.40
44:IM:404:PHE:CE2	45:IN:259:PRO:HB3	2.57	0.40
45:IN:45:GLU:O	45:IN:46:ARG:HD2	2.21	0.40
45:IN:130:LEU:HD21	45:IN:133:PHE:CZ	2.57	0.40
44:JA:26:LEU:CD2	44:JA:364:PRO:HD3	2.50	0.40
44:JA:247:ALA:HB1	45:JD:222:TYR:CD2	2.56	0.40
44:JA:402:ARG:HB3	44:JA:405:VAL:CG2	2.50	0.40
45:JB:68:LEU:HD12	45:JB:97:ALA:CB	2.43	0.40
45:JB:314:SER:CB	45:JB:350:LYS:HD3	2.51	0.40
45:JB:406:MET:HE1	45:NB:306:ARG:NH1	2.36	0.40
44:JC:75:ILE:HG22	44:JC:79:ARG:HH21	1.87	0.40
45:JD:86:ARG:HE	45:KD:281:TYR:HD1	1.67	0.40
44:JG:76:ASP:O	44:JG:80:THR:HG22	2.22	0.40
44:JG:270:SER:CB	44:JG:378:ILE:HA	2.52	0.40
45:JH:60:VAL:HG23	45:JH:60:VAL:O	2.22	0.40
44:JI:98:ASP:OD1	44:JI:99:ALA:N	2.54	0.40
44:JI:221:ARG:HA	45:JJ:325:GLU:OE2	2.21	0.40
45:JJ:216:LYS:O	45:JJ:217:LEU:HD22	2.22	0.40
44:JK:104:ALA:C	44:JK:411:GLU:HG2	2.42	0.40
45:JL:207:LEU:CB	45:JL:225:LEU:HD22	2.28	0.40
45:JN:100:ASN:HD22	45:JN:103:LYS:HD3	1.86	0.40
45:JN:267:MET:HE1	45:JN:371:SER:HB2	2.04	0.40
44:KA:80:THR:O	44:KA:80:THR:HG22	2.22	0.40
44:KA:198:THR:HG22	44:KA:199:ASP:N	2.36	0.40
45:KB:166:THR:HG22	45:KB:198:GLU:O	2.21	0.40
45:KD:317:PHE:CD2	45:KD:365:VAL:HG23	2.57	0.40
44:KE:14:ILE:HG21	44:KE:74:VAL:HG12	2.03	0.40
44:KE:51:THR:HG23	44:KE:52:PHE:N	2.36	0.40
45:KF:62:ARG:HG3	45:KF:123:GLU:OE1	2.21	0.40
45:KF:152:ILE:HA	45:KF:155:VAL:CG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KF:198:GLU:HG2	45:KF:266:PHE:HE2	1.86	0.40
45:KF:213:ARG:NH1	45:KF:297:LYS:HB3	2.37	0.40
44:KG:14:ILE:HD11	44:KG:69:ASP:CB	2.45	0.40
44:KG:90:GLU:HG3	44:KG:121:ARG:NH2	2.35	0.40
45:KH:253:LEU:HG	45:KH:257:LEU:HD12	2.04	0.40
45:KH:333:VAL:HG13	45:KH:334:GLN:N	2.36	0.40
45:KH:391:ARG:HA	45:KH:391:ARG:HD2	1.81	0.40
44:KI:332:ILE:HG23	44:KI:351:PHE:CE2	2.55	0.40
45:KJ:113:ILE:HD13	45:KJ:150:LEU:HD23	2.00	0.40
44:KK:60:LYS:HZ2	44:KK:62:VAL:HG22	1.82	0.40
44:KK:195:LEU:HD11	44:KK:265:ILE:CA	2.48	0.40
44:KK:198:THR:HB	44:KK:266:HIS:NE2	2.36	0.40
44:KK:344:VAL:HG13	44:KK:346:TRP:CE2	2.56	0.40
45:KL:213:ARG:NH1	45:KL:297:LYS:CE	2.85	0.40
45:KN:173:PRO:HD2	45:KN:380:ARG:NH1	2.35	0.40
45:KN:263:LEU:HD23	45:KN:422:TYR:CD1	2.56	0.40
44:LA:57:GLY:HA3	44:MA:285:GLN:HA	2.03	0.40
44:LA:74:VAL:HG23	44:LA:75:ILE:N	2.37	0.40
44:LA:187:SER:O	44:LA:190:SER:OG	2.29	0.40
45:LB:121:ARG:NH1	45:LB:125:GLU:OE2	2.55	0.40
45:LB:156:ARG:HG3	45:LB:195:ASN:CB	2.43	0.40
45:LB:181:GLU:HG3	45:LB:182:PRO:HD3	2.03	0.40
44:LC:30:ILE:HG12	44:LC:36:MET:CE	2.52	0.40
44:LC:217:LEU:O	44:LC:277:SER:HB2	2.22	0.40
44:LC:288:VAL:HG13	44:LC:289:ALA:N	2.36	0.40
45:LD:405:GLU:CD	45:LD:406:MET:HE2	2.42	0.40
44:LE:33:ASP:CG	44:LE:35:GLN:HE22	2.24	0.40
45:LF:245:GLN:HG3	45:LF:353:ILE:HG21	2.02	0.40
45:LF:309:ARG:HD3	45:LF:342:VAL:CG2	2.51	0.40
44:LG:136:LEU:HB3	44:LG:138:PHE:CE1	2.56	0.40
45:LH:180:VAL:HG22	45:LH:180:VAL:O	2.21	0.40
44:LI:64:ARG:NH1	44:LI:64:ARG:HG3	2.35	0.40
44:LI:69:ASP:OD1	44:LI:71:GLU:N	2.42	0.40
45:LL:320:ARG:O	45:LL:320:ARG:CG	2.70	0.40
44:LM:76:ASP:O	44:LM:79:ARG:HB2	2.21	0.40
44:LM:318:MET:HA	44:LM:354:GLY:N	2.37	0.40
44:LM:328:VAL:HG11	44:LM:353:VAL:HG21	2.03	0.40
45:LN:86:ARG:NH1	45:MN:281:TYR:CD2	2.89	0.40
45:LN:414:ASN:O	45:LN:418:LEU:N	2.41	0.40
45:MB:16:ILE:HG23	45:MB:17:GLY:N	2.36	0.40
45:MB:208:TYR:HD1	45:MB:212:PHE:CE2	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MB:382:ALA:HB2	45:MB:415:MET:HE3	2.02	0.40
45:MD:15:GLN:O	45:MD:18:ALA:HB3	2.21	0.40
45:MD:36:TYR:OH	45:MD:38:GLY:HA3	2.21	0.40
44:ME:169:PHE:CE1	44:ME:235:ILE:HD13	2.57	0.40
44:ME:324:VAL:HG12	44:ME:326:LYS:H	1.86	0.40
45:MF:25:SER:HA	45:MF:30:ILE:HD13	2.04	0.40
45:MF:60:VAL:HG21	45:MF:86:ARG:HE	1.87	0.40
45:MF:362:LYS:O	45:MF:363:MET:CE	2.69	0.40
44:MG:27:GLU:HG3	44:MG:28:HIS:ND1	2.36	0.40
44:MG:205:ASP:OD2	44:MG:304:LYS:N	2.33	0.40
44:MG:362:VAL:HG13	44:MG:362:VAL:O	2.21	0.40
45:MH:257:LEU:HD21	45:MH:368:VAL:O	2.21	0.40
44:MI:267:PHE:CE2	44:MI:388:PHE:HZ	2.40	0.40
45:MJ:178:THR:HB	45:MJ:181:GLU:CG	2.27	0.40
44:MK:101:ASN:HD22	44:MK:143:GLY:HA2	1.85	0.40
44:MK:188:ILE:HD11	44:MK:425:LEU:HD12	2.02	0.40
45:ML:28:HIS:CG	45:ML:47:ILE:HD13	2.56	0.40
45:ML:143:THR:CG2	45:ML:144:GLY:N	2.84	0.40
45:ML:213:ARG:HH21	45:ML:297:LYS:HD3	1.86	0.40
45:ML:216:LYS:HD3	45:ML:275:SER:CB	2.50	0.40
45:ML:269:GLY:CA	45:ML:300:MET:HE1	2.52	0.40
44:MM:87:PHE:N	44:MM:87:PHE:CD2	2.89	0.40
44:MM:276:ILE:HG12	44:MM:281:ALA:CB	2.50	0.40
44:MM:317:MET:HB3	44:MM:377:MET:CB	2.51	0.40
45:MN:99:ASN:C	45:MN:142:GLY:HA3	2.41	0.40
45:NB:217:LEU:HD12	45:NB:217:LEU:C	2.41	0.40
45:NB:336:LYS:HE3	45:NB:337:ASN:OD1	2.21	0.40
44:NC:145:THR:OG1	44:NC:149:LEU:HD23	2.20	0.40
45:ND:166:THR:HG23	45:ND:166:THR:O	2.22	0.40
45:ND:304:ASP:HB3	45:ND:307:HIS:CG	2.56	0.40
45:ND:317:PHE:CE2	45:ND:326:VAL:HG22	2.56	0.40
45:ND:429:THR:HG22	45:ND:430:ALA:N	2.36	0.40
44:NE:71:GLU:HA	44:NE:72:PRO:HD3	1.94	0.40
44:NE:104:ALA:HB1	44:NE:411:GLU:CB	2.51	0.40
44:NE:396:ASP:HB2	44:NE:422:ARG:HH22	1.86	0.40
45:NF:211:CYS:O	45:NF:217:LEU:HD23	2.20	0.40
45:NF:287:PRO:HA	45:NF:329:GLN:HE21	1.85	0.40
45:NF:414:ASN:C	45:NF:414:ASN:HD22	2.25	0.40
44:NG:35:GLN:HE22	44:NG:59:GLY:HA2	1.86	0.40
44:NG:200:VAL:HB	44:NG:268:MET:HE1	2.04	0.40
44:NG:258:ASN:ND2	45:NJ:179:VAL:HG12	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NH:66:MET:HB2	45:NH:66:MET:HE2	1.96	0.40
45:NH:423:GLN:NE2	45:NH:427:ASP:OD2	2.55	0.40
44:NI:63:PRO:CG	44:NI:86:LEU:HD11	2.51	0.40
45:NJ:32:PRO:CD	45:NJ:81:PHE:HE1	2.33	0.40
45:NJ:239:CYS:HB3	45:NJ:354:CYS:HB3	1.42	0.40
44:NK:326:LYS:HB2	45:NN:220:PRO:HG2	2.03	0.40
45:NL:134:GLN:HA	45:NL:165:GLU:O	2.22	0.40
44:NM:274:PRO:HG2	44:NM:371:VAL:HG23	2.01	0.40
45:NN:120:VAL:HG13	45:NN:121:ARG:N	2.36	0.40
45:NN:263:LEU:HD23	45:NN:311:LEU:HD11	2.02	0.40
44:OA:169:PHE:HA	44:OA:202:VAL:HG23	2.03	0.40
44:OA:229:ARG:HH12	44:OA:363:VAL:HG11	1.86	0.40
44:OA:322:ASP:OD1	44:OA:373:ARG:HG3	2.21	0.40
44:OA:325:PRO:HB3	45:OD:222:TYR:CZ	2.56	0.40
45:OB:42:LEU:CA	45:OB:45:GLU:HG3	2.43	0.40
45:OB:260:PHE:HE2	45:OB:425:TYR:CZ	2.39	0.40
45:OD:189:VAL:HG22	45:OD:193:VAL:HB	2.03	0.40
45:OD:258:ILE:CD1	45:OD:264:HIS:HA	2.51	0.40
44:OE:104:ALA:CB	44:OE:411:GLU:HB2	2.51	0.40
45:OF:22:GLU:HA	45:OF:25:SER:CB	2.52	0.40
45:OF:271:ALA:HB1	45:OF:272:PRO:HA	2.04	0.40
45:OF:383:GLU:OE2	45:OF:384:GLN:HG2	2.21	0.40
44:OG:216:ASN:O	44:OG:280:LYS:HE3	2.22	0.40
45:OH:69:GLU:HA	45:OH:70:PRO:HD3	1.98	0.40
45:OH:116:VAL:HA	45:OH:119:VAL:CG2	2.48	0.40
45:OH:208:TYR:HA	45:OH:211:CYS:SG	2.61	0.40
45:OH:235:GLY:C	45:OH:318:ARG:HH21	2.24	0.40
44:OI:387:VAL:HG12	44:OI:390:ARG:HH11	1.85	0.40
45:OJ:14:ASN:CG	45:OJ:72:THR:HG21	2.42	0.40
45:OJ:242:PHE:HD2	45:OJ:356:ILE:HG13	1.81	0.40
44:OK:63:PRO:HG2	44:OK:86:LEU:HD21	2.02	0.40
44:OK:175:PRO:HB3	44:OK:390:ARG:NE	2.36	0.40
44:OM:76:ASP:HA	44:OM:79:ARG:HB2	2.03	0.40
45:ON:233:MET:O	45:ON:236:VAL:HG23	2.21	0.40
45:ON:285:THR:HB	45:ON:287:PRO:HD2	2.03	0.40
44:PA:34:GLY:CA	44:PA:60:LYS:HZ2	2.26	0.40
44:PA:115:VAL:CG2	44:PA:156:ARG:HD2	2.52	0.40
44:PA:387:VAL:HG12	44:PA:390:ARG:HH11	1.86	0.40
45:PB:61:PRO:HG2	45:PB:84:LEU:HB3	2.03	0.40
44:PC:141:VAL:CG1	44:PC:172:TYR:HD1	2.32	0.40
45:PD:317:PHE:CA	45:PD:365:VAL:HG22	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PE:53:PHE:CB	44:PE:61:HIS:HB3	2.36	0.40
44:PE:187:SER:HB3	44:PE:391:LEU:CD2	2.49	0.40
44:PE:326:LYS:HB3	45:PH:220:PRO:HG2	2.00	0.40
45:PF:170:VAL:HG23	45:PF:203:ASP:OD1	2.22	0.40
44:PG:320:ARG:HG3	44:PG:360:PRO:HD3	2.03	0.40
45:PH:143:THR:HG23	48:PH:501:GDP:O3B	2.21	0.40
45:PH:240:LEU:HD12	45:PH:249:ASP:CB	2.51	0.40
45:PH:380:ARG:HE	45:PH:380:ARG:HB3	1.73	0.40
44:PI:313:MET:SD	44:PI:346:TRP:HZ2	2.44	0.40
44:PI:329:ASN:ND2	45:PL:175:VAL:HG12	2.36	0.40
44:PI:402:ARG:O	44:PI:405:VAL:HB	2.21	0.40
45:PJ:2:ARG:HH12	45:PJ:46:ARG:NH2	2.19	0.40
45:PJ:182:PRO:HB2	45:PJ:385:PHE:HA	2.03	0.40
45:PJ:374:ILE:HG12	45:PJ:422:TYR:CZ	2.56	0.40
44:PK:6:SER:OG	44:PK:136:LEU:HB2	2.22	0.40
44:PK:108:TYR:HD2	44:PK:411:GLU:O	2.04	0.40
45:PL:143:THR:HG23	45:PL:144:GLY:H	1.85	0.40
45:PL:265:PHE:CE2	45:PL:378:PHE:HZ	2.40	0.40
44:PM:332:ILE:HD11	44:PM:351:PHE:CE2	2.56	0.40
45:PN:51:TYR:HB3	45:PN:59:TYR:CB	2.48	0.40
45:PN:112:LEU:O	45:PN:112:LEU:HD23	2.20	0.40
44:QA:8:HIS:HB2	44:QA:67:PHE:HD1	1.84	0.40
45:QB:132:GLY:HA3	45:QB:163:ILE:CG1	2.51	0.40
45:QB:267:MET:HE2	45:QB:371:SER:HB2	2.04	0.40
44:QC:54:SER:HB3	44:QC:64:ARG:CZ	2.51	0.40
44:QC:71:GLU:CG	44:QC:98:ASP:HB2	2.52	0.40
45:QD:167:PHE:CE2	45:QD:233:MET:HG2	2.52	0.40
45:QD:178:THR:HB	45:QD:181:GLU:CG	2.49	0.40
45:QD:293:MET:HB2	45:QD:365:VAL:HG11	2.04	0.40
45:QD:325:GLU:HG2	45:QD:329:GLN:HG3	2.03	0.40
45:QD:404:ASP:OD1	45:QD:406:MET:HB2	2.21	0.40
44:QE:246:GLY:HA2	44:QE:357:TYR:CD2	2.56	0.40
44:QG:240:ALA:HA	44:QG:243:ARG:CZ	2.51	0.40
44:QG:328:VAL:O	44:QG:331:SER:HB2	2.21	0.40
45:QH:297:LYS:HG3	45:QH:298:ASN:N	2.36	0.40
44:QI:324:VAL:HG12	44:QI:326:LYS:H	1.86	0.40
44:QI:349:THR:HG23	44:QI:349:THR:O	2.22	0.40
45:QJ:392:LYS:HG3	45:QJ:395:LEU:CD2	2.49	0.40
45:QJ:419:VAL:O	45:QJ:423:GLN:HG3	2.22	0.40
44:QK:79:ARG:HG3	44:QK:92:LEU:HD22	2.04	0.40
44:QK:270:SER:HB3	44:QK:378:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:QK:288:VAL:O	44:QK:291:ILE:HG12	2.22	0.40
45:QL:165:GLU:OE2	45:QL:250:LEU:HD22	2.22	0.40
45:QL:213:ARG:O	45:QL:216:LYS:HG2	2.22	0.40
45:QL:314:SER:HB3	45:QL:368:VAL:HG13	2.03	0.40
44:RA:174:SER:HB3	44:RA:175:PRO:HD2	2.02	0.40
44:RA:270:SER:HB3	44:RA:378:ILE:CD1	2.51	0.40
45:RB:64:ILE:CD1	45:RB:119:VAL:HG22	2.51	0.40
45:RB:248:SER:OG	45:RB:252:LYS:HB3	2.21	0.40
45:RB:293:MET:SD	45:RB:293:MET:N	2.94	0.40
45:RB:324:LYS:HD2	44:RC:210:TYR:CE1	2.57	0.40
45:RB:376:GLU:O	45:RB:380:ARG:HG2	2.21	0.40
44:RC:209:ILE:O	44:RC:212:ILE:HB	2.20	0.40
44:RC:343:PHE:HE2	44:RC:350:GLY:HA3	1.87	0.40
45:RD:119:VAL:CA	45:RD:122:LYS:NZ	2.84	0.40
45:RD:261:PRO:HD3	44:RE:406:HIS:CD2	2.56	0.40
45:RF:139:LEU:O	45:RF:145:SER:HB3	2.22	0.40
45:RF:247:ASN:ND2	44:RG:73:THR:HB	2.35	0.40
45:RF:391:ARG:HA	45:RF:391:ARG:HD2	1.81	0.40
44:RG:183:GLU:CD	44:RG:184:PRO:HD3	2.42	0.40
44:RG:431:ASP:O	44:RG:434:GLU:N	2.55	0.40
45:RH:207:LEU:HD13	45:RH:225:LEU:HD22	2.04	0.40
45:RH:285:THR:HB	45:RH:287:PRO:HD2	2.01	0.40
44:RI:265:ILE:CD1	44:RI:432:TYR:HE1	2.34	0.40
45:RL:2:ARG:C	45:RL:131:GLN:HB2	2.40	0.40
45:RL:6:HIS:CA	45:RL:134:GLN:HE21	2.35	0.40
45:RL:132:GLY:HA3	45:RL:163:ILE:HG12	2.03	0.40
45:RL:237:THR:OG1	45:RL:240:LEU:HD22	2.22	0.40
45:RL:258:ILE:CG1	45:RL:266:PHE:HZ	2.33	0.40
44:RM:5:ILE:CG2	44:RM:7:ILE:HD11	2.51	0.40
44:RM:97:GLU:HG2	44:RM:105:ARG:HH22	1.86	0.40
44:RM:185:TYR:HE1	44:RM:398:MET:HB2	1.85	0.40
45:RN:318:ARG:HH11	45:RN:358:PRO:CD	2.33	0.40
44:SA:237:SER:O	44:SA:318:MET:HG2	2.22	0.40
45:SB:137:HIS:CD2	45:SB:168:SER:HG	2.40	0.40
45:SB:262:ARG:C	45:SB:263:LEU:HD12	2.42	0.40
44:SC:276:ILE:HG12	44:SC:281:ALA:CA	2.49	0.40
45:SD:83:GLN:OE1	45:SD:83:GLN:HA	2.21	0.40
45:SD:86:ARG:HE	45:SD:87:PRO:CD	2.33	0.40
45:SD:121:ARG:HG3	45:SD:121:ARG:NH1	2.36	0.40
45:SD:183:TYR:HE2	45:SD:394:PHE:HB2	1.87	0.40
45:SD:189:VAL:O	45:SD:192:LEU:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SD:405:GLU:O	45:SD:409:THR:N	2.55	0.40
44:SE:78:VAL:HG12	44:SE:92:LEU:HD21	2.03	0.40
44:SE:291:ILE:O	44:SE:294:SER:N	2.53	0.40
45:SF:26:ASP:O	45:SF:29:GLY:N	2.43	0.40
45:SF:352:SER:O	45:SF:353:ILE:HD13	2.22	0.40
44:SG:1:MET:H2	44:SG:2:ARG:NH1	2.19	0.40
44:SG:167:LEU:HD11	44:SG:256:GLN:HE22	1.86	0.40
44:SG:210:TYR:O	44:SG:214:ARG:HB2	2.20	0.40
44:SI:375:VAL:O	44:SI:375:VAL:HG13	2.21	0.40
45:SJ:21:TRP:CH2	45:SJ:50:TYR:HB3	2.57	0.40
45:SJ:178:THR:HG21	45:SJ:180:VAL:HG12	2.04	0.40
45:SJ:405:GLU:HG2	45:SJ:406:MET:N	2.36	0.40
45:SL:257:LEU:HD11	45:SL:314:SER:OG	2.22	0.40
44:SM:66:VAL:HB	44:SM:91:GLN:HE22	1.85	0.40
44:SM:138:PHE:HE1	44:SM:169:PHE:HD2	1.68	0.40
44:SM:285:GLN:CD	44:SM:287:SER:HB2	2.42	0.40
44:SM:420:GLU:HG3	44:SM:421:ALA:N	2.36	0.40
45:SN:69:GLU:OE2	45:SN:72:THR:HB	2.21	0.40
45:SN:107:THR:OG1	45:SN:108:GLU:N	2.55	0.40
45:SN:135:ILE:HG22	45:SN:137:HIS:CD2	2.47	0.40
45:SN:204:ASN:HA	45:SN:207:LEU:HD12	2.03	0.40
44:TA:274:PRO:HD3	44:TA:374:ALA:HA	2.04	0.40
44:TA:383:ALA:O	44:TA:386:GLU:HG2	2.21	0.40
44:TA:387:VAL:O	44:TA:391:LEU:HD13	2.21	0.40
45:TB:66:MET:HE1	45:TB:116:VAL:HG21	2.03	0.40
45:TB:83:GLN:OE1	45:TB:83:GLN:HA	2.20	0.40
45:TB:100:ASN:ND2	45:TB:103:LYS:H	2.20	0.40
45:TB:200:MET:HE2	45:TB:268:ILE:CG2	2.50	0.40
45:TB:293:MET:HE2	45:TB:367:PHE:HD1	1.86	0.40
44:TC:212:ILE:HD13	44:TC:215:ARG:NH2	2.37	0.40
45:TD:144:GLY:HA3	48:TD:501:GDP:O1B	2.20	0.40
45:TD:193:VAL:O	45:TD:193:VAL:HG22	2.20	0.40
44:TE:9:VAL:HG13	44:TE:9:VAL:O	2.22	0.40
44:TE:240:ALA:HB1	44:TE:356:ASN:ND2	2.28	0.40
45:TF:375:GLN:HG3	45:TF:376:GLU:N	2.37	0.40
45:TF:385:PHE:HE2	45:TF:412:GLU:HB2	1.86	0.40
44:TG:319:TYR:CE1	44:TG:375:VAL:HG21	2.57	0.40
45:TH:46:ARG:O	45:TH:49:VAL:HG23	2.22	0.40
45:TH:101:TRP:HD1	45:TH:145:SER:CB	2.34	0.40
45:TH:417:ASP:O	45:TH:421:GLU:N	2.29	0.40
44:TI:133:GLN:O	44:TI:165:SER:OG	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:TI:256:GLN:O	45:TJ:397:TRP:CZ2	2.74	0.40
45:TJ:183:TYR:HE2	45:TJ:394:PHE:HB3	1.86	0.40
44:TK:11:GLN:N	46:TK:501:GTP:O2B	2.31	0.40
45:TL:15:GLN:O	45:TL:18:ALA:HB3	2.22	0.40
44:TM:256:GLN:NE2	45:TN:397:TRP:CZ2	2.90	0.40
44:TM:353:VAL:CG1	45:TN:177:ASP:HA	2.52	0.40
45:TN:100:ASN:OD1	45:TN:101:TRP:N	2.55	0.40
45:TN:101:TRP:CB	45:TN:398:TYR:HE1	2.35	0.40
45:TN:295:ASP:OD1	45:TN:296:ALA:N	2.54	0.40
45:TN:317:PHE:CG	45:TN:321:MET:HE1	2.56	0.40
45:TN:370:ASN:OD1	45:TN:422:TYR:OH	2.39	0.40
44:UC:22:GLU:HG3	44:UC:83:TYR:CE2	2.56	0.40
44:UC:114:ILE:HD12	44:UC:117:LEU:CD2	2.52	0.40
44:UE:6:SER:C	44:UE:7:ILE:HD13	2.42	0.40
44:UE:247:ALA:HB2	44:UE:357:TYR:CE1	2.56	0.40
44:UE:250:VAL:HG11	44:UE:318:MET:HE1	2.03	0.40
44:UE:385:ALA:HA	44:UE:388:PHE:HD2	1.85	0.40
45:UF:352:SER:C	45:UF:353:ILE:HD12	2.42	0.40
44:UG:276:ILE:HG12	44:UG:281:ALA:CA	2.51	0.40
44:UG:332:ILE:HD12	44:UG:351:PHE:CE2	2.56	0.40
44:UG:383:ALA:C	44:UG:385:ALA:H	2.25	0.40
45:UH:92:PHE:C	45:UH:112:LEU:HD11	2.42	0.40
45:UH:282:ARG:HH12	45:UH:288:GLU:CB	2.34	0.40
45:UH:309:ARG:HD2	45:UH:339:SER:O	2.22	0.40
45:UJ:122:LYS:NZ	45:UJ:123:GLU:HG2	2.37	0.40
45:UJ:166:THR:HG21	45:UJ:192:LEU:HD11	2.03	0.40
45:UJ:200:MET:SD	45:UJ:268:ILE:HG23	2.61	0.40
44:UK:77:GLU:HA	44:UK:80:THR:OG1	2.22	0.40
44:UK:328:VAL:O	44:UK:332:ILE:HG12	2.21	0.40
44:UK:402:ARG:O	44:UK:405:VAL:HG23	2.22	0.40
45:UL:178:THR:HG22	45:UL:179:VAL:N	2.37	0.40
45:UL:258:ILE:HG13	45:UL:266:PHE:CZ	2.55	0.40
44:UM:79:ARG:CG	44:UM:92:LEU:HD22	2.51	0.40
44:UM:268:MET:N	44:UM:268:MET:SD	2.95	0.40
44:UM:419:SER:C	44:UM:423:GLU:HG3	2.40	0.40
45:UN:52:ASN:O	45:UN:60:VAL:HG12	2.22	0.40
45:UN:81:PHE:O	45:UN:84:LEU:HD13	2.21	0.40
45:UN:141:GLY:HA3	48:UN:501:GDP:O3A	2.22	0.40
45:UN:212:PHE:C	45:UN:216:LYS:HA	2.42	0.40
45:UN:257:LEU:HD21	45:UN:368:VAL:O	2.21	0.40
44:VA:166:LYS:C	44:VA:167:LEU:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:VA:304:LYS:HG3	44:VA:304:LYS:O	2.21	0.40
44:VA:349:THR:O	44:VA:349:THR:HG23	2.21	0.40
45:VB:86:ARG:HH22	45:WB:278:SER:CA	2.34	0.40
45:VB:124:ALA:HB1	45:VB:159:TYR:CE2	2.55	0.40
45:VB:139:LEU:HB3	45:VB:185:ALA:HA	2.04	0.40
45:VB:319:GLY:HA2	45:VB:357:PRO:HB3	2.04	0.40
44:VC:223:THR:CA	45:VD:322:SER:HB2	2.50	0.40
45:VD:3:GLU:OE2	45:VD:127:CYS:HB2	2.22	0.40
45:VF:149:THR:HG23	45:VF:150:LEU:N	2.35	0.40
44:VG:420:GLU:O	44:VG:423:GLU:N	2.53	0.40
45:VH:251:ARG:O	45:VH:255:VAL:HG23	2.21	0.40
44:VI:201:ALA:HB3	44:VI:267:PHE:CD1	2.56	0.40
44:VI:211:ASP:HA	44:VI:214:ARG:NH2	2.36	0.40
44:VI:285:GLN:HG3	44:VI:287:SER:H	1.86	0.40
44:VI:292:THR:HA	44:VI:375:VAL:HG11	2.04	0.40
45:VJ:2:ARG:HH21	45:VJ:240:LEU:HD12	1.84	0.40
45:VJ:119:VAL:HG13	45:VJ:120:VAL:N	2.37	0.40
45:VJ:271:ALA:O	45:VJ:364:ALA:HB1	2.21	0.40
45:VJ:332:ASN:OD1	45:VJ:332:ASN:O	2.39	0.40
44:VK:210:TYR:O	44:VK:213:CYS:HB2	2.21	0.40
44:VK:401:LYS:HE3	44:VK:401:LYS:HB2	1.65	0.40
45:VL:100:ASN:HB3	45:VL:103:LYS:HB3	2.04	0.40
45:VL:135:ILE:HG13	45:VL:152:ILE:CD1	2.51	0.40
45:VL:268:ILE:HA	45:VL:367:PHE:O	2.22	0.40
44:VM:187:SER:HA	44:VM:190:SER:OG	2.21	0.40
44:VM:207:GLU:O	44:VM:210:TYR:HB2	2.22	0.40
44:VM:245:ASP:O	44:VM:357:TYR:HB2	2.21	0.40
45:VN:265:PHE:CE2	45:VN:378:PHE:HZ	2.36	0.40
45:VN:288:GLU:HA	45:VN:291:GLN:HG2	2.02	0.40
45:VN:328:GLU:O	45:VN:331:LEU:HB3	2.21	0.40
44:WA:161:TYR:CD1	44:WA:161:TYR:N	2.89	0.40
44:WA:228:ASN:O	44:WA:231:ILE:N	2.55	0.40
44:WA:287:SER:O	44:WA:290:GLU:HG2	2.22	0.40
44:WA:404:PHE:CE1	45:WB:259:PRO:HG3	2.56	0.40
45:WB:286:VAL:HG11	45:WB:325:GLU:CG	2.49	0.40
44:WC:163:LYS:O	44:WC:163:LYS:CD	2.68	0.40
44:WC:237:SER:CB	44:WC:320:ARG:HH11	2.32	0.40
44:WC:276:ILE:HG23	44:WC:281:ALA:HB2	2.04	0.40
44:WC:387:VAL:HG13	44:WC:388:PHE:N	2.36	0.40
44:WC:406:HIS:CE1	45:WD:261:PRO:HD3	2.56	0.40
44:WE:212:ILE:CD1	44:WE:300:ASN:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WH:226:ASN:O	45:WH:229:VAL:HG12	2.22	0.40
44:WI:246:GLY:HA2	44:WI:357:TYR:HE1	1.85	0.40
44:WI:288:VAL:HG13	44:WI:289:ALA:N	2.35	0.40
44:WI:439:THR:HB	45:WL:391:ARG:NH1	2.35	0.40
45:WJ:104:GLY:C	45:WJ:146:GLY:HA3	2.41	0.40
45:WJ:318:ARG:HD3	45:WJ:358:PRO:CG	2.49	0.40
44:WK:183:GLU:HG2	44:WK:184:PRO:CD	2.51	0.40
44:WM:205:ASP:CG	44:WM:303:ALA:HA	2.42	0.40
45:WN:345:ILE:HG23	45:WN:348:ASN:HB3	2.03	0.40
1:6H:327:PHE:CD1	45:FJ:215:LEU:HD11	2.45	0.40
1:6H:329:LEU:O	45:FJ:360:GLY:CA	2.61	0.40
3:0B:290:THR:HG22	45:KL:284:LEU:CD2	2.36	0.40
10:0N:156:HIS:NE2	45:KN:26:ASP:OD1	2.55	0.40
9:1H:297:THR:OG1	44:GC:58:ALA:HA	2.21	0.40
20:1J:139:LYS:HG2	44:IE:372:MET:HE2	2.03	0.40
22:1L:153:LEU:HB2	45:CH:362:LYS:HZ3	1.83	0.40
22:1L:436:PHE:HE1	45:CF:320:ARG:HE	1.69	0.40
22:1L:464:TYR:OH	45:BH:36:TYR:HB3	2.21	0.40
24:1O:239:ILE:HD13	45:UB:280:GLN:CG	2.51	0.40
11:1Q:102:ARG:HH22	44:AC:430:LYS:NZ	2.18	0.40
15:1V:98:LEU:CD2	44:LI:405:VAL:HG13	2.52	0.40
17:2B:237:LYS:HD2	44:JK:84:ARG:NH2	2.16	0.40
29:2F:74:SER:HB3	45:HF:291:GLN:O	2.21	0.40
21:2K:433:LEU:HB2	44:GE:282:TYR:OH	2.20	0.40
10:2N:259:ILE:HD11	45:KB:77:ARG:NH2	2.04	0.40
12:2S:278:ARG:CZ	45:WJ:91:VAL:HG22	2.51	0.40
22:3L:44:ILE:HG21	45:BB:320:ARG:HD3	2.04	0.40
14:3U:437:GLN:HB3	44:WM:37:PRO:CB	2.51	0.40
34:4F:5:VAL:HG23	44:GI:84:ARG:NH1	2.35	0.40
37:5A:158:ASN:HD21	44:KC:386:GLU:HG2	1.85	0.40
37:5D:58:TYR:HB2	45:KN:182:PRO:C	2.41	0.40
37:5D:108:ARG:CZ	44:NM:277:SER:O	2.70	0.40
38:5G:60:TRP:HZ3	45:OJ:274:THR:HG22	1.86	0.40
38:5G:173:LYS:HE2	45:KL:193:VAL:O	2.22	0.40
38:5H:16:GLN:HE21	38:5H:22:LYS:HE3	1.87	0.40
38:5H:44:ARG:NH2	38:5H:45:PRO:HD2	2.37	0.40
38:5H:46:LEU:HB2	44:OK:373:ARG:HH12	1.85	0.40
38:5H:66:THR:CG2	45:NN:35:THR:HB	2.51	0.40
38:5H:126:LEU:HD12	38:5H:127:PRO:CD	2.51	0.40
39:5I:94:ILE:O	39:5I:94:ILE:HG23	2.22	0.40
39:5J:93:ASP:OD2	44:JG:434:GLU:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5R:18:PRO:HA	35:5R:19:ASP:OD1	2.20	0.40
35:5R:87:LYS:HE3	35:5R:88:TYR:CE1	2.57	0.40
35:5R:456:TYR:HE1	35:5R:469:LYS:CG	2.34	0.40
35:5R:544:SER:O	35:5R:547:GLU:HB3	2.22	0.40
35:5R:580:LEU:HD22	35:5R:584:GLU:HB2	2.04	0.40
40:6F:42:ASN:HB2	40:6F:57:SER:OG	2.21	0.40
41:6G:150:GLU:HB3	45:VH:336:LYS:CD	2.52	0.40
11:6Q:97:LYS:HG3	11:6Q:99:VAL:CG2	2.39	0.40
11:6Q:180:GLU:HG2	11:6Q:181:PHE:CD1	2.57	0.40
35:7R:525:GLU:H	35:7R:525:GLU:CD	2.25	0.40
45:AB:217:LEU:HD11	45:AB:220:PRO:HA	2.03	0.40
44:AC:271:SER:O	44:AC:377:MET:HG2	2.21	0.40
45:AD:278:SER:HB2	45:MD:87:PRO:HG2	2.02	0.40
45:AD:286:VAL:HB	45:AD:325:GLU:OE2	2.22	0.40
44:AE:276:ILE:HG23	44:AE:276:ILE:O	2.22	0.40
45:AF:113:ILE:HG13	45:AF:116:VAL:CG1	2.52	0.40
44:AG:7:ILE:CD1	44:AG:122:ILE:HD11	2.51	0.40
44:AG:67:PHE:C	44:AG:68:LEU:HD22	2.42	0.40
44:AG:261:PRO:HA	45:AJ:394:PHE:CE1	2.56	0.40
44:AG:392:ASP:O	44:AG:395:PHE:HB3	2.21	0.40
45:AH:4:ILE:HD11	45:AH:131:GLN:HB3	2.03	0.40
45:AH:258:ILE:HG23	45:AH:263:LEU:O	2.22	0.40
44:AI:100:ALA:HB1	45:AJ:251:ARG:HG2	2.03	0.40
44:AI:107:HIS:O	44:AI:108:TYR:HD1	2.04	0.40
44:AI:125:LEU:HD23	44:AI:125:LEU:HA	1.94	0.40
44:AI:276:ILE:HD11	44:AI:280:LYS:O	2.22	0.40
44:AI:288:VAL:O	44:AI:291:ILE:HG12	2.21	0.40
45:AJ:50:TYR:OH	45:AJ:134:GLN:OE1	2.25	0.40
44:AK:249:ASN:OD1	44:AK:249:ASN:N	2.52	0.40
44:AK:332:ILE:HA	44:AK:335:ILE:CG2	2.51	0.40
44:AK:399:TYR:CD2	44:AK:399:TYR:O	2.75	0.40
44:AM:66:VAL:HG22	44:AM:68:LEU:HD12	2.02	0.40
44:AM:228:ASN:O	44:AM:231:ILE:HG22	2.20	0.40
44:BA:114:ILE:HG22	44:BA:114:ILE:O	2.21	0.40
44:BA:221:ARG:HH21	45:BB:322:SER:C	2.18	0.40
44:BA:256:GLN:HB2	44:BA:260:VAL:HG21	1.99	0.40
45:BB:87:PRO:HA	45:BB:90:PHE:HD2	1.87	0.40
44:BC:294:SER:HA	44:BC:297:GLU:OE2	2.21	0.40
45:BD:31:ASP:HB3	45:BD:32:PRO:HD2	2.02	0.40
45:BD:64:ILE:HG12	45:BD:119:VAL:HG22	2.04	0.40
45:BD:76:VAL:HG13	45:BD:77:ARG:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BD:105:HIS:HA	45:BD:150:LEU:HD23	2.03	0.40
44:BE:242:LEU:CD1	44:BE:252:ILE:HD11	2.37	0.40
45:BF:87:PRO:CD	45:CD:281:TYR:CD2	3.05	0.40
45:BF:193:VAL:HG22	45:BF:262:ARG:HH21	1.84	0.40
44:BI:159:VAL:HG13	44:BI:160:ASP:N	2.37	0.40
44:BK:240:ALA:HA	44:BK:243:ARG:HG2	2.04	0.40
44:BK:331:SER:O	44:BK:335:ILE:HG12	2.21	0.40
45:BL:134:GLN:HA	45:BL:165:GLU:O	2.21	0.40
45:BL:256:ASN:ND2	45:BL:350:LYS:HE3	2.37	0.40
45:BL:345:ILE:O	45:BL:348:ASN:HB3	2.21	0.40
44:BM:132:LEU:CD2	44:BM:164:LYS:HD2	2.52	0.40
44:BM:215:ARG:CZ	44:BM:299:ALA:HB1	2.50	0.40
44:BM:313:MET:SD	44:BM:313:MET:N	2.95	0.40
45:BN:285:THR:O	45:BN:289:LEU:HD23	2.21	0.40
45:BN:303:ALA:HB1	45:BN:373:ALA:O	2.21	0.40
45:BN:406:MET:O	45:BN:409:THR:HG22	2.22	0.40
44:CA:92:LEU:HD13	44:CA:92:LEU:HA	1.99	0.40
44:CA:151:SER:O	44:CA:155:GLU:HG3	2.20	0.40
44:CA:245:ASP:O	44:CA:357:TYR:HD2	2.04	0.40
44:CA:316:SER:O	44:CA:317:MET:HE1	2.21	0.40
45:CB:406:MET:HA	45:CB:409:THR:OG1	2.22	0.40
44:CC:286:LEU:O	44:CC:286:LEU:CD2	2.68	0.40
44:CC:296:PHE:HE1	44:CC:377:MET:SD	2.44	0.40
45:CD:2:ARG:NE	45:CD:240:LEU:HD11	2.36	0.40
45:CD:66:MET:SD	45:CD:147:MET:SD	3.20	0.40
45:CD:270:PHE:HD2	45:CD:273:LEU:HD21	1.86	0.40
45:CD:379:LYS:O	45:CD:382:ALA:HB3	2.22	0.40
44:CE:133:GLN:HG3	44:CE:242:LEU:CD1	2.39	0.40
44:CE:242:LEU:HD23	44:CE:242:LEU:O	2.21	0.40
44:CE:243:ARG:O	44:CE:244:PHE:CD1	2.74	0.40
44:CE:250:VAL:HG21	44:CE:318:MET:SD	2.62	0.40
45:CF:167:PHE:CE1	45:CF:200:MET:CE	3.04	0.40
44:CG:257:THR:HA	45:CH:397:TRP:NE1	2.35	0.40
44:CG:324:VAL:HG23	44:CG:327:ASP:H	1.86	0.40
45:CH:218:THR:CG2	45:CH:219:THR:N	2.84	0.40
44:CI:14:ILE:HG12	44:CI:75:ILE:CD1	2.52	0.40
44:CI:358:GLN:CD	44:CI:359:PRO:HD2	2.41	0.40
45:CJ:47:ILE:HD13	45:CJ:59:TYR:CE2	2.57	0.40
45:CJ:255:VAL:HG21	44:CK:100:ALA:O	2.21	0.40
45:CJ:288:GLU:HA	45:CJ:291:GLN:CG	2.52	0.40
44:CK:311:LYS:O	44:CK:312:TYR:HD1	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CK:356:ASN:OD1	44:CK:357:TYR:N	2.55	0.40
45:CL:105:HIS:HD2	45:CL:146:GLY:O	2.03	0.40
45:CL:215:LEU:HA	45:CL:275:SER:HA	2.03	0.40
45:CL:314:SER:HB2	45:CL:350:LYS:HG3	2.04	0.40
45:CL:391:ARG:HD2	45:CL:391:ARG:HA	1.93	0.40
44:CM:114:ILE:HD13	44:CM:114:ILE:HA	1.94	0.40
45:CN:149:THR:HG23	45:CN:150:LEU:N	2.36	0.40
45:CN:286:VAL:HB	45:CN:287:PRO:HD3	2.03	0.40
45:CN:380:ARG:HE	45:CN:380:ARG:HB3	1.74	0.40
44:DA:88:HIS:ND1	44:DA:89:PRO:HD2	2.37	0.40
44:DA:140:SER:CB	46:DA:501:GTP:H1'	2.52	0.40
44:DA:209:ILE:HB	44:DA:227:LEU:HD22	2.04	0.40
44:DA:312:TYR:CE2	44:DA:341:ILE:HG23	2.57	0.40
45:DB:135:ILE:HG12	45:DB:165:GLU:O	2.21	0.40
44:DC:181:VAL:HG23	44:DC:182:VAL:N	2.37	0.40
44:DE:7:ILE:HD11	44:DE:122:ILE:HD12	2.03	0.40
44:DE:20:CYS:HA	44:DE:232:ALA:CB	2.48	0.40
44:DE:225:THR:HA	44:DE:228:ASN:OD1	2.20	0.40
44:DE:279:GLU:O	44:DE:279:GLU:HG3	2.22	0.40
45:DF:25:SER:CA	45:DF:30:ILE:HG12	2.48	0.40
45:DF:42:LEU:HD13	45:DF:45:GLU:CD	2.41	0.40
45:DF:143:THR:HG23	45:DF:144:GLY:H	1.87	0.40
45:DF:178:THR:HG22	45:DF:180:VAL:HG12	2.00	0.40
45:DF:245:GLN:CB	45:DF:246:LEU:HD12	2.44	0.40
44:DG:55:GLU:OE1	44:DG:61:HIS:NE2	2.54	0.40
45:DH:186:THR:HG21	45:DH:385:PHE:CG	2.57	0.40
45:DH:412:GLU:O	45:DH:416:ASN:HB2	2.21	0.40
44:DI:202:VAL:HG21	44:DI:378:ILE:HG23	2.02	0.40
45:DJ:256:ASN:O	45:DJ:256:ASN:OD1	2.39	0.40
45:DJ:324:LYS:HD3	44:DK:222:PRO:CG	2.51	0.40
45:DJ:368:VAL:O	45:DJ:368:VAL:HG13	2.21	0.40
45:DL:311:LEU:HD23	45:DL:311:LEU:HA	1.86	0.40
45:DL:371:SER:O	45:DL:374:ILE:HG22	2.21	0.40
44:DM:243:ARG:NH1	44:DM:244:PHE:HE2	2.19	0.40
45:DN:5:VAL:HA	45:DN:62:ARG:HD3	2.04	0.40
45:DN:46:ARG:O	45:DN:49:VAL:HG23	2.21	0.40
45:DN:81:PHE:O	45:DN:84:LEU:HD13	2.22	0.40
45:DN:167:PHE:CE2	45:DN:233:MET:SD	3.14	0.40
44:EA:405:VAL:HG12	44:EA:409:VAL:HG23	2.03	0.40
45:EB:66:MET:HE1	45:EB:116:VAL:HG22	2.02	0.40
45:EB:73:MET:HE1	45:EB:92:PHE:HD2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EB:276:ARG:HD3	45:EB:279:GLN:OE1	2.20	0.40
45:EB:315:ALA:O	45:EB:352:SER:N	2.53	0.40
44:EC:268:MET:HG3	44:EC:378:ILE:HG22	2.03	0.40
44:EE:264:ARG:CZ	44:EE:431:ASP:HB2	2.52	0.40
44:EE:421:ALA:O	44:EE:424:ASP:HB2	2.22	0.40
45:EF:360:GLY:O	45:EF:361:LEU:HD23	2.21	0.40
44:EG:301:MET:HG3	44:EG:307:PRO:HD3	2.03	0.40
45:EH:19:LYS:HD3	45:EH:22:GLU:CB	2.51	0.40
44:EI:108:TYR:HE2	44:EI:413:MET:CG	2.34	0.40
45:EJ:242:PHE:HB3	45:EJ:243:PRO:CD	2.51	0.40
45:EJ:322:SER:HB3	44:EK:221:ARG:NH1	2.36	0.40
45:EL:44:LEU:HD23	45:EL:47:ILE:HD13	2.03	0.40
44:EM:166:LYS:C	44:EM:167:LEU:HD12	2.42	0.40
44:EM:334:THR:O	44:EM:337:THR:HB	2.21	0.40
45:EN:221:THR:HG22	45:EN:224:ASP:CG	2.42	0.40
45:EN:274:THR:HB	45:EN:282:ARG:CD	2.43	0.40
45:EN:420:SER:HA	45:EN:423:GLN:HE21	1.87	0.40
45:FB:68:LEU:HD23	45:FB:96:GLY:C	2.42	0.40
45:FB:73:MET:CE	45:FB:92:PHE:HB3	2.33	0.40
45:FB:118:ASP:O	45:FB:121:ARG:N	2.55	0.40
44:FC:183:GLU:HG2	44:FC:184:PRO:N	2.37	0.40
44:FC:242:LEU:CD1	44:FC:252:ILE:HG12	2.42	0.40
44:FC:269:LEU:O	44:FC:269:LEU:HG	2.22	0.40
45:FD:25:SER:HA	45:FD:30:ILE:HG22	2.03	0.40
45:FD:73:MET:CE	45:FD:73:MET:HA	2.51	0.40
45:FD:139:LEU:CA	45:FD:145:SER:HB3	2.39	0.40
45:FD:200:MET:N	45:FD:200:MET:SD	2.95	0.40
44:FE:21:TRP:CE3	44:FE:24:PHE:HB2	2.57	0.40
44:FE:132:LEU:O	44:FE:164:LYS:NZ	2.48	0.40
45:FF:116:VAL:O	45:FF:119:VAL:HG12	2.21	0.40
45:FH:238:CYS:HB3	45:FH:318:ARG:NH2	2.37	0.40
45:FH:327:ASP:O	45:FH:330:MET:HB3	2.21	0.40
45:FH:406:MET:O	45:FH:410:GLU:HG3	2.22	0.40
44:FI:74:VAL:HG23	44:FI:75:ILE:N	2.37	0.40
44:FI:229:ARG:HG2	44:FI:229:ARG:NH1	2.36	0.40
44:FM:107:HIS:N	44:FM:148:GLY:HA3	2.36	0.40
44:GA:90:GLU:HG3	44:GA:121:ARG:HH12	1.86	0.40
44:GA:388:PHE:CZ	44:GA:428:LEU:HD21	2.56	0.40
45:GB:113:ILE:HD11	45:GB:151:LEU:HA	2.04	0.40
44:GC:271:SER:HB2	44:GC:377:MET:HG3	2.00	0.40
44:GC:320:ARG:CZ	44:GC:360:PRO:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GD:190:HIS:O	45:GD:193:VAL:HG12	2.22	0.40
45:GD:286:VAL:N	45:GD:287:PRO:CD	2.85	0.40
44:GE:74:VAL:HG13	44:GE:75:ILE:N	2.37	0.40
44:GE:137:VAL:O	44:GE:137:VAL:HG13	2.22	0.40
44:GE:311:LYS:HD2	44:GE:342:GLN:HG3	2.04	0.40
45:GF:46:ARG:HG3	45:GF:46:ARG:NH1	2.34	0.40
45:GF:263:LEU:HB3	45:GF:422:TYR:CE1	2.57	0.40
44:GG:261:PRO:HB2	44:GG:262:TYR:HD2	1.86	0.40
44:GI:263:PRO:HD3	45:GL:396:HIS:ND1	2.36	0.40
44:GI:426:ALA:HA	44:GI:429:GLU:HB2	2.03	0.40
44:GK:326:LYS:HE2	45:GN:220:PRO:CG	2.52	0.40
45:GL:4:ILE:HD11	45:GL:131:GLN:CG	2.51	0.40
44:GM:184:PRO:HA	44:GM:187:SER:CB	2.51	0.40
44:GM:216:ASN:HB3	44:GM:276:ILE:HG13	2.03	0.40
45:GN:50:TYR:CE2	45:GN:241:ARG:HD3	2.57	0.40
44:HA:1:MET:HE2	45:HD:70:PRO:CG	2.51	0.40
44:HA:102:ASN:OD1	44:HA:105:ARG:HG3	2.22	0.40
45:HB:423:GLN:HA	45:HB:426:GLN:CB	2.52	0.40
44:HC:68:LEU:HD21	44:HC:118:CYS:SG	2.61	0.40
44:HC:135:PHE:O	44:HC:136:LEU:HD12	2.22	0.40
44:HC:238:LEU:HD23	44:HC:255:PHE:CE2	2.56	0.40
44:HE:26:LEU:HD23	44:HE:26:LEU:C	2.42	0.40
44:HE:177:VAL:HG13	45:HF:327:ASP:HB3	2.04	0.40
44:HE:182:VAL:C	44:HE:184:PRO:HD2	2.41	0.40
44:HE:224:TYR:CD2	46:HE:501:GTP:C6	3.09	0.40
45:HF:40:SER:O	45:HF:43:GLN:HB2	2.20	0.40
45:HF:352:SER:C	45:HF:353:ILE:HD12	2.42	0.40
44:HG:71:GLU:OE2	44:HG:73:THR:OG1	2.38	0.40
44:HG:172:TYR:HB2	44:HG:203:MET:HE3	1.95	0.40
44:HG:191:THR:O	44:HG:195:LEU:HB2	2.21	0.40
44:HI:288:VAL:HG21	44:HI:323:VAL:HG23	2.03	0.40
44:HI:362:VAL:HG11	44:HI:370:LYS:CA	2.52	0.40
45:HJ:313:ALA:HB3	45:HJ:349:ILE:HG22	2.03	0.40
44:HK:261:PRO:HA	45:HN:394:PHE:CD2	2.56	0.40
44:HK:328:VAL:HG13	44:HK:329:ASN:N	2.35	0.40
44:HM:221:ARG:NH2	45:HN:321:MET:HB2	2.36	0.40
44:HM:239:THR:HB	44:HM:243:ARG:HE	1.86	0.40
44:HM:239:THR:O	44:HM:242:LEU:HD23	2.21	0.40
44:HM:240:ALA:HB1	44:HM:356:ASN:HD22	1.85	0.40
44:HM:405:VAL:HG12	44:HM:409:VAL:CG2	2.51	0.40
45:HN:73:MET:C	45:HN:76:VAL:HG12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HN:243:PRO:O	45:HN:355:ASP:HB2	2.21	0.40
45:HN:252:LYS:HG3	45:HN:256:ASN:ND2	2.36	0.40
45:HN:377:MET:O	45:HN:381:VAL:HG23	2.21	0.40
44:IA:185:TYR:O	44:IA:189:LEU:HG	2.21	0.40
44:IA:278:ALA:N	44:IA:369:ALA:HB2	2.36	0.40
44:IC:60:LYS:HD3	45:JD:281:TYR:HE1	1.83	0.40
44:IC:319:TYR:HD1	44:IC:353:VAL:HG23	1.83	0.40
45:ID:260:PHE:HB3	45:ID:261:PRO:HD2	2.02	0.40
45:IF:11:GLN:O	45:IF:15:GLN:HG2	2.21	0.40
45:IF:127:CYS:SG	45:IF:130:LEU:HB2	2.62	0.40
45:IF:146:GLY:O	45:IF:149:THR:HG22	2.22	0.40
45:IF:298:ASN:OD1	45:IF:298:ASN:O	2.39	0.40
45:IH:60:VAL:CG2	45:IH:61:PRO:CD	2.99	0.40
44:II:238:LEU:HD23	44:II:238:LEU:C	2.42	0.40
45:IJ:173:PRO:HD3	45:IJ:380:ARG:HH11	1.86	0.40
45:IJ:264:HIS:O	45:IJ:265:PHE:HD1	2.04	0.40
45:IJ:286:VAL:HB	45:IJ:325:GLU:CD	2.42	0.40
45:IL:290:THR:HA	45:IL:293:MET:CE	2.51	0.40
44:IM:53:PHE:CE1	44:IM:63:PRO:HG3	2.55	0.40
44:IM:63:PRO:CG	44:IM:86:LEU:HG	2.44	0.40
44:IM:74:VAL:HG13	44:IM:75:ILE:N	2.37	0.40
44:IM:225:THR:O	44:IM:228:ASN:N	2.55	0.40
45:IN:10:GLY:HA3	45:IN:144:GLY:HA2	2.04	0.40
45:IN:86:ARG:HH22	44:JK:280:LYS:CA	2.34	0.40
44:JA:11:GLN:HE22	45:JB:246:LEU:HA	1.86	0.40
45:JB:166:THR:HG21	45:JB:196:ALA:CB	2.52	0.40
44:JC:23:LEU:HD23	44:JC:236:SER:HB2	2.04	0.40
44:JC:108:TYR:CE1	44:JC:413:MET:HE1	2.56	0.40
45:JD:49:VAL:HG13	45:JD:50:TYR:N	2.36	0.40
45:JF:175:VAL:CG2	45:JF:205:GLU:HG2	2.52	0.40
44:JG:167:LEU:HD22	44:JG:252:ILE:HD11	2.02	0.40
44:JG:220:GLU:O	45:JH:324:LYS:CE	2.70	0.40
45:JH:76:VAL:HG13	45:JH:77:ARG:N	2.37	0.40
45:JH:256:ASN:OD1	45:JH:256:ASN:O	2.39	0.40
44:JI:30:ILE:HD12	44:JI:53:PHE:CE2	2.57	0.40
44:JI:229:ARG:HH11	44:JI:229:ARG:HG2	1.87	0.40
44:JI:254:GLU:O	44:JI:255:PHE:HD1	2.05	0.40
45:JJ:11:GLN:O	45:JJ:15:GLN:N	2.46	0.40
44:JK:14:ILE:HG12	44:JK:74:VAL:HG12	2.02	0.40
45:JL:109:GLY:HA3	45:JL:147:MET:HE1	2.03	0.40
45:JL:354:CYS:SG	45:JL:355:ASP:N	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:101:ASN:HA	46:JM:501:GTP:O1G	2.21	0.40
44:JM:280:LYS:O	44:JM:280:LYS:HG2	2.22	0.40
44:JM:384:ILE:HG21	44:JM:432:TYR:CZ	2.57	0.40
45:JN:172:SER:OG	45:JN:175:VAL:HG22	2.22	0.40
45:JN:386:THR:HG23	45:JN:387:ALA:N	2.37	0.40
44:KA:14:ILE:HD11	44:KA:69:ASP:CB	2.46	0.40
44:KA:210:TYR:CE1	44:KA:227:LEU:HD21	2.56	0.40
45:KB:21:TRP:CH2	45:KB:63:ALA:CB	3.04	0.40
45:KB:310:TYR:CE1	45:KB:371:SER:HB2	2.57	0.40
45:KB:345:ILE:HG23	45:KB:348:ASN:HB3	2.02	0.40
45:KD:80:PRO:O	45:KD:81:PHE:HB2	2.21	0.40
44:KE:194:LEU:CD1	44:KE:198:THR:HG21	2.52	0.40
45:KF:214:THR:HG21	45:KF:273:LEU:HB2	2.02	0.40
45:KF:388:MET:SD	45:KF:388:MET:O	2.79	0.40
44:KG:137:VAL:HG23	44:KG:137:VAL:O	2.22	0.40
44:KG:224:TYR:HA	44:KG:227:LEU:HD12	2.03	0.40
45:KH:143:THR:HG22	48:KH:501:GDP:O3B	2.20	0.40
45:KH:214:THR:HG21	45:KH:297:LYS:HZ2	1.87	0.40
45:KH:398:TYR:HB3	45:KH:408:PHE:HZ	1.87	0.40
44:KI:181:VAL:HG12	45:KJ:256:ASN:CB	2.51	0.40
44:KI:312:TYR:O	44:KI:344:VAL:HG13	2.21	0.40
45:KJ:2:ARG:HE	45:KJ:240:LEU:CD1	2.33	0.40
45:KJ:7:ILE:O	45:KJ:135:ILE:HA	2.21	0.40
44:KK:319:TYR:CE2	44:KK:328:VAL:HG13	2.57	0.40
45:KL:15:GLN:HA	45:KL:18:ALA:HB3	2.04	0.40
45:KL:31:ASP:HB2	45:KL:32:PRO:HD2	2.02	0.40
45:KL:131:GLN:NE2	45:KL:250:LEU:HD12	2.37	0.40
45:KL:180:VAL:HG22	45:KL:180:VAL:O	2.21	0.40
44:KM:5:ILE:HB	44:KM:135:PHE:HD1	1.84	0.40
44:KM:261:PRO:HG2	44:KM:380:ASN:ND2	2.36	0.40
44:LA:208:ALA:CB	44:LA:304:LYS:HE3	2.47	0.40
44:LA:221:ARG:N	44:LA:222:PRO:HD3	2.37	0.40
44:LA:427:ALA:O	44:LA:431:ASP:N	2.39	0.40
45:LB:187:LEU:HD21	45:LB:408:PHE:CE1	2.57	0.40
44:LC:114:ILE:HG22	44:LC:114:ILE:O	2.21	0.40
44:LC:128:ASN:OD1	44:MC:285:GLN:NE2	2.55	0.40
44:LC:184:PRO:CG	44:LC:398:MET:HE2	2.52	0.40
44:LC:229:ARG:HD3	44:LC:363:VAL:HG11	2.02	0.40
45:LD:101:TRP:HB3	45:LD:398:TYR:HE2	1.86	0.40
44:LE:123:ARG:HH11	44:LE:123:ARG:CG	2.34	0.40
44:LE:372:MET:O	44:LE:373:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LF:203:ASP:CG	45:LF:302:ALA:H	2.23	0.40
45:LF:240:LEU:HD23	45:LF:240:LEU:C	2.42	0.40
45:LF:388:MET:O	45:LF:388:MET:SD	2.80	0.40
45:LH:102:ALA:HB1	45:LH:401:GLU:CG	2.47	0.40
44:LI:64:ARG:HG3	44:LI:64:ARG:HH11	1.87	0.40
44:LI:262:TYR:OH	45:LL:393:ALA:HB2	2.22	0.40
44:LI:425:LEU:O	44:LI:428:LEU:HB3	2.21	0.40
45:LJ:116:VAL:HG13	45:LJ:117:LEU:N	2.36	0.40
44:LK:62:VAL:HG21	44:MK:283:HIS:O	2.22	0.40
45:LL:241:ARG:C	45:LL:242:PHE:HD1	2.24	0.40
45:LL:245:GLN:OE1	45:LL:245:GLN:HA	2.21	0.40
45:LL:311:LEU:HD12	45:LL:311:LEU:HA	1.98	0.40
45:LL:342:VAL:HG21	45:LL:344:TRP:NE1	2.37	0.40
44:LM:118:CYS:SG	44:LM:153:LEU:HD22	2.62	0.40
44:LM:326:LYS:HD2	44:LM:327:ASP:N	2.36	0.40
45:LN:61:PRO:CD	45:LN:84:LEU:HB3	2.52	0.40
45:LN:214:THR:O	45:LN:216:LYS:NZ	2.32	0.40
45:LN:313:ALA:HB3	45:LN:349:ILE:CD1	2.52	0.40
45:LN:316:LEU:HB2	45:LN:366:THR:HG23	2.02	0.40
45:MB:174:LYS:HG2	45:MB:205:GLU:OE2	2.21	0.40
45:MB:303:ALA:N	45:MB:377:MET:HE2	2.30	0.40
44:MC:324:VAL:CG1	44:MC:325:PRO:HD2	2.48	0.40
45:MD:104:GLY:O	45:MD:147:MET:CA	2.69	0.40
44:ME:60:LYS:HB2	44:ME:60:LYS:HE3	1.91	0.40
44:ME:70:LEU:HD12	44:ME:145:THR:CB	2.50	0.40
45:MF:139:LEU:HD23	45:MF:188:SER:CB	2.52	0.40
45:MF:145:SER:O	45:MF:149:THR:HG22	2.22	0.40
45:MF:269:GLY:HA2	45:MF:300:MET:HE2	2.02	0.40
44:MG:271:SER:N	44:MG:302:MET:HE1	2.36	0.40
44:MG:378:ILE:O	44:MG:378:ILE:CG2	2.70	0.40
45:MH:372:THR:HG21	45:MH:426:GLN:HB3	2.04	0.40
44:MI:433:GLU:OE1	44:MI:433:GLU:HA	2.21	0.40
45:MJ:101:TRP:CD1	45:MJ:101:TRP:C	2.94	0.40
44:MK:2:ARG:N	44:MK:2:ARG:HD3	2.37	0.40
45:ML:166:THR:O	45:ML:199:CYS:HA	2.22	0.40
45:ML:207:LEU:HD12	45:ML:225:LEU:HD23	2.04	0.40
44:MM:277:SER:O	44:MM:281:ALA:HB2	2.21	0.40
45:MN:206:ALA:O	45:MN:209:ASP:N	2.55	0.40
45:MN:343:GLU:OE2	45:MN:430:ALA:HB3	2.21	0.40
44:NA:23:LEU:HD11	44:NA:361:THR:CG2	2.52	0.40
44:NA:102:ASN:OD1	44:NA:105:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:NA:266:HIS:O	44:NA:267:PHE:HD1	2.04	0.40
45:NB:197:ASP:O	45:NB:264:HIS:HB2	2.21	0.40
44:NC:176:GLN:O	45:ND:331:LEU:HD13	2.22	0.40
45:ND:286:VAL:HG21	45:ND:325:GLU:CG	2.51	0.40
44:NE:291:ILE:HD12	44:NE:375:VAL:HG23	2.03	0.40
45:NF:60:VAL:HG13	45:NF:61:PRO:HD2	2.03	0.40
45:NF:385:PHE:CD2	45:NF:412:GLU:HG2	2.56	0.40
45:NH:44:LEU:HD22	45:NH:47:ILE:HD13	2.04	0.40
44:NI:35:GLN:O	44:NI:37:PRO:HD3	2.22	0.40
44:NI:154:LEU:HD12	44:NI:194:LEU:HB3	2.02	0.40
44:NI:183:GLU:CD	44:NI:184:PRO:HD3	2.42	0.40
44:NI:320:ARG:HD3	44:NI:358:GLN:O	2.22	0.40
45:NJ:116:VAL:HG13	45:NJ:117:LEU:N	2.37	0.40
45:NJ:164:MET:HB3	45:NJ:197:ASP:CB	2.40	0.40
44:NK:221:ARG:O	44:NK:221:ARG:HG3	2.21	0.40
44:NK:223:THR:HG23	44:NK:225:THR:HG23	2.03	0.40
44:NK:224:TYR:O	44:NK:228:ASN:ND2	2.55	0.40
45:NL:133:PHE:O	45:NL:164:MET:HA	2.22	0.40
44:NM:312:TYR:HB2	44:NM:343:PHE:CD1	2.56	0.40
45:NN:73:MET:O	45:NN:76:VAL:HG12	2.22	0.40
45:NN:258:ILE:CG1	45:NN:266:PHE:HZ	2.27	0.40
44:OA:265:ILE:HG23	44:OA:432:TYR:HE1	1.85	0.40
45:OB:124:ALA:HB1	45:OB:130:LEU:HD22	2.03	0.40
44:OC:56:THR:HB	44:OC:60:LYS:O	2.21	0.40
44:OC:201:ALA:O	44:OC:268:MET:N	2.50	0.40
44:OC:212:ILE:CD1	44:OC:300:ASN:HD22	2.34	0.40
44:OC:261:PRO:CA	45:OF:394:PHE:CE1	3.00	0.40
44:OE:352:LYS:HB2	45:OH:179:VAL:CG1	2.45	0.40
44:OE:408:TYR:O	44:OE:413:MET:HB2	2.21	0.40
44:OG:119:LEU:CA	44:OG:122:ILE:HG22	2.51	0.40
44:OG:161:TYR:HB3	44:OG:164:LYS:HE2	2.03	0.40
44:OG:195:LEU:HD23	44:OG:195:LEU:C	2.41	0.40
44:OG:217:LEU:HB2	44:OG:219:ILE:HG12	2.02	0.40
44:OG:221:ARG:NH2	45:OH:320:ARG:HH12	2.19	0.40
45:OH:7:ILE:CG1	45:OH:135:ILE:HD13	2.51	0.40
45:OH:215:LEU:HD23	45:OH:215:LEU:HA	1.86	0.40
45:OH:258:ILE:HG13	45:OH:266:PHE:HZ	1.86	0.40
44:OI:426:ALA:O	44:OI:429:GLU:HB2	2.22	0.40
44:OK:183:GLU:HG2	44:OK:184:PRO:N	2.37	0.40
44:OK:329:ASN:O	44:OK:332:ILE:HB	2.21	0.40
45:OL:170:VAL:HG23	45:OL:171:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OL:313:ALA:O	45:OL:350:LYS:N	2.41	0.40
44:OM:8:HIS:HA	44:OM:138:PHE:O	2.21	0.40
44:OM:115:VAL:HB	44:OM:152:LEU:HD23	2.03	0.40
44:OM:183:GLU:HG2	44:OM:184:PRO:HD3	2.03	0.40
44:PA:115:VAL:CB	44:PA:152:LEU:HD23	2.50	0.40
45:PB:1:MET:SD	45:PB:2:ARG:N	2.95	0.40
45:PB:47:ILE:HG21	45:PB:59:TYR:HE2	1.86	0.40
45:PB:291:GLN:O	45:PB:295:ASP:HB2	2.21	0.40
44:PC:71:GLU:HA	44:PC:72:PRO:HD3	1.90	0.40
45:PD:25:SER:O	45:PD:29:GLY:N	2.55	0.40
45:PD:47:ILE:HD13	45:PD:59:TYR:CD2	2.57	0.40
45:PD:69:GLU:HA	45:PD:70:PRO:HD3	1.90	0.40
44:PE:278:ALA:HB2	44:PE:369:ALA:CB	2.52	0.40
45:PF:156:ARG:NH1	45:PF:160:PRO:CA	2.80	0.40
45:PF:357:PRO:CB	45:PF:358:PRO:CD	3.00	0.40
44:PG:88:HIS:HB3	44:PG:91:GLN:CD	2.42	0.40
44:PG:284:GLU:HG3	44:PG:286:LEU:HG	2.02	0.40
44:PG:305:CYS:SG	44:PG:383:ALA:HB1	2.62	0.40
45:PH:257:LEU:HA	45:PH:312:THR:CG2	2.51	0.40
44:PI:32:PRO:HB3	44:PI:83:TYR:CD1	2.57	0.40
44:PI:384:ILE:HD12	44:PI:387:VAL:HG21	2.03	0.40
45:PJ:2:ARG:CB	45:PJ:131:GLN:HB2	2.50	0.40
45:PJ:6:HIS:ND1	45:PJ:134:GLN:OE1	2.55	0.40
45:PJ:21:TRP:HA	45:PJ:24:ILE:HG22	2.03	0.40
45:PJ:46:ARG:HD3	45:PJ:46:ARG:HA	1.94	0.40
45:PJ:69:GLU:OE1	45:PJ:71:GLY:N	2.52	0.40
44:PK:117:LEU:O	44:PK:120:ASP:N	2.54	0.40
44:PK:352:LYS:HD2	45:PN:177:ASP:O	2.22	0.40
44:PM:8:HIS:HB2	44:PM:67:PHE:HD1	1.86	0.40
44:PM:102:ASN:OD1	44:PM:104:ALA:N	2.33	0.40
44:PM:222:PRO:HG2	45:PN:324:LYS:CD	2.50	0.40
45:PN:22:GLU:CG	45:PN:81:PHE:HB2	2.39	0.40
45:PN:110:ALA:C	45:PN:113:ILE:HG22	2.42	0.40
45:PN:233:MET:O	45:PN:236:VAL:HG23	2.22	0.40
45:PN:285:THR:HG22	45:PN:288:GLU:CG	2.52	0.40
45:PN:285:THR:HG22	45:PN:288:GLU:HG2	2.03	0.40
44:QA:175:PRO:HB3	44:QA:390:ARG:NH2	2.36	0.40
44:QA:324:VAL:CG1	44:QA:326:LYS:HG3	2.48	0.40
45:QB:19:LYS:HE3	45:QB:226:ASN:CB	2.51	0.40
45:QB:54:ALA:HA	45:RB:283:ALA:CA	2.51	0.40
45:QB:242:PHE:HB2	45:QB:354:CYS:SG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QB:247:ASN:ND2	44:QC:73:THR:HB	2.37	0.40
45:QB:314:SER:HB3	45:QB:368:VAL:HB	2.03	0.40
45:QB:318:ARG:O	45:QB:364:ALA:N	2.54	0.40
44:QC:31:GLN:OE1	44:QC:33:ASP:N	2.42	0.40
44:QC:66:VAL:HG22	44:QC:68:LEU:HD12	2.03	0.40
44:QC:428:LEU:O	44:QC:431:ASP:HB2	2.22	0.40
45:QD:101:TRP:HD1	45:QD:145:SER:OG	2.04	0.40
45:QD:193:VAL:HG13	45:QD:194:GLU:N	2.37	0.40
45:QD:350:LYS:HD2	44:QE:179:THR:O	2.21	0.40
45:QF:322:SER:HA	44:QG:223:THR:HA	2.04	0.40
44:QG:31:GLN:HG2	44:QG:32:PRO:CD	2.44	0.40
44:QG:232:ALA:O	44:QG:235:ILE:N	2.55	0.40
45:QH:44:LEU:CD2	45:QH:47:ILE:HD12	2.52	0.40
45:QH:175:VAL:O	45:QH:175:VAL:HG23	2.22	0.40
45:QH:204:ASN:HA	45:QH:207:LEU:HD12	2.04	0.40
45:QJ:66:MET:HE1	45:QJ:116:VAL:HA	2.04	0.40
45:QJ:304:ASP:O	45:QJ:307:HIS:HB2	2.21	0.40
44:QK:1:MET:O	44:QK:130:THR:HG23	2.21	0.40
44:QK:387:VAL:HA	44:QK:390:ARG:NH1	2.34	0.40
44:QM:174:SER:CB	44:QM:207:GLU:HB2	2.51	0.40
44:QM:238:LEU:HD21	44:QM:255:PHE:HE2	1.86	0.40
44:QM:241:SER:OG	44:QM:250:VAL:N	2.50	0.40
44:QM:278:ALA:HB2	44:QM:369:ALA:HB2	2.03	0.40
45:RB:69:GLU:HA	45:RB:70:PRO:HD3	1.93	0.40
45:RB:179:VAL:O	45:RB:182:PRO:CD	2.69	0.40
45:RB:210:ILE:O	45:RB:215:LEU:HG	2.21	0.40
44:RC:212:ILE:HD12	44:RC:212:ILE:H	1.86	0.40
44:RC:232:ALA:O	44:RC:235:ILE:HB	2.22	0.40
45:RD:5:VAL:HG22	45:RD:133:PHE:CE1	2.56	0.40
45:RD:19:LYS:HA	45:RD:22:GLU:HB2	2.04	0.40
45:RD:97:ALA:O	45:RD:103:LYS:HE2	2.21	0.40
45:RF:341:PHE:HD1	45:RF:348:ASN:HD21	1.70	0.40
44:RG:11:GLN:O	44:RG:14:ILE:HB	2.21	0.40
45:RH:183:TYR:CE1	45:RH:388:MET:HE2	2.57	0.40
44:RI:205:ASP:CG	44:RI:304:LYS:H	2.21	0.40
44:RI:265:ILE:CD1	44:RI:432:TYR:CE1	3.04	0.40
45:RJ:203:ASP:O	45:RJ:207:LEU:HG	2.21	0.40
45:RJ:309:ARG:H	45:RJ:372:THR:HG22	1.86	0.40
45:RJ:324:LYS:HE3	44:RK:210:TYR:CZ	2.53	0.40
45:RJ:344:TRP:HE3	45:RJ:344:TRP:O	2.05	0.40
44:RK:53:PHE:C	44:RK:64:ARG:HH12	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RL:113:ILE:HD13	45:RL:150:LEU:CD2	2.51	0.40
44:RM:203:MET:HE2	44:RM:384:ILE:HD11	2.04	0.40
44:RM:344:VAL:HG21	44:RM:346:TRP:NE1	2.36	0.40
44:RM:422:ARG:HH12	44:RM:426:ALA:HB2	1.83	0.40
45:RN:221:THR:O	45:RN:224:ASP:N	2.55	0.40
45:RN:228:LEU:HA	45:RN:231:ALA:HB3	2.03	0.40
45:RN:334:GLN:HB2	45:RN:349:ILE:HD11	2.03	0.40
44:SA:325:PRO:HG2	45:SB:222:TYR:HE2	1.78	0.40
44:SA:326:LYS:CD	45:SB:220:PRO:HD2	2.50	0.40
45:SB:97:ALA:C	45:SB:103:LYS:HD2	2.42	0.40
45:SB:385:PHE:HE2	45:SB:412:GLU:HB2	1.85	0.40
44:SC:188:ILE:O	44:SC:191:THR:HB	2.22	0.40
44:SE:23:LEU:HD22	44:SE:232:ALA:CB	2.51	0.40
44:SE:34:GLY:O	44:SE:60:LYS:HA	2.21	0.40
44:SE:150:GLY:O	44:SE:153:LEU:N	2.55	0.40
44:SE:259:LEU:HD21	44:SE:316:SER:HB2	2.04	0.40
45:SF:68:LEU:HD23	45:SF:97:ALA:N	2.36	0.40
44:SG:191:THR:HA	44:SG:194:LEU:HG	2.03	0.40
45:SH:54:ALA:CB	45:SH:58:ARG:HG2	2.49	0.40
44:SI:34:GLY:C	44:SI:60:LYS:HB2	2.41	0.40
44:SI:313:MET:HG3	44:SI:346:TRP:CH2	2.57	0.40
44:SI:325:PRO:HG3	44:SI:355:ILE:CD1	2.50	0.40
45:SJ:91:VAL:HG23	45:SJ:91:VAL:O	2.22	0.40
45:SJ:117:LEU:CD2	45:SJ:154:LYS:HD2	2.52	0.40
45:SJ:303:ALA:HB1	45:SJ:373:ALA:O	2.21	0.40
45:SJ:416:ASN:O	45:SJ:419:VAL:N	2.55	0.40
44:SK:88:HIS:CG	44:SK:89:PRO:HD2	2.57	0.40
45:SL:255:VAL:HG12	45:SL:255:VAL:O	2.22	0.40
44:SM:79:ARG:HH11	44:SM:92:LEU:CD2	2.34	0.40
44:SM:124:LYS:HE2	44:SM:124:LYS:HB2	1.84	0.40
44:SM:146:GLY:H	46:SM:501:GTP:PB	2.44	0.40
44:SM:331:SER:O	44:SM:335:ILE:HG12	2.21	0.40
45:SN:4:ILE:HB	45:SN:132:GLY:O	2.22	0.40
45:TB:9:GLY:HA2	45:TB:66:MET:O	2.22	0.40
45:TB:11:GLN:O	45:TB:15:GLN:HG2	2.22	0.40
44:TC:60:LYS:NZ	44:TC:85:GLN:HB3	2.37	0.40
44:TC:124:LYS:HE2	44:TC:124:LYS:HB2	1.87	0.40
44:TC:141:VAL:CG2	44:TC:187:SER:HA	2.51	0.40
44:TC:250:VAL:HG21	44:TC:352:LYS:HE3	2.04	0.40
44:TC:314:ALA:HB3	44:TC:380:ASN:CB	2.51	0.40
45:TD:59:TYR:HA	45:UD:281:TYR:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TD:389:PHE:O	45:TD:392:LYS:HD3	2.22	0.40
44:TE:184:PRO:HD3	44:TE:394:LYS:HZ3	1.86	0.40
45:TF:130:LEU:HG	45:TF:162:ARG:HD3	2.03	0.40
45:TF:178:THR:H	45:TF:181:GLU:CD	2.23	0.40
44:TG:206:ASN:O	44:TG:209:ILE:HB	2.21	0.40
45:TH:4:ILE:HD11	45:TH:50:TYR:CZ	2.56	0.40
45:TH:66:MET:O	45:TH:66:MET:HG3	2.22	0.40
45:TH:99:ASN:HA	45:TH:142:GLY:CA	2.49	0.40
45:TH:315:ALA:C	45:TH:316:LEU:HD12	2.42	0.40
44:TI:101:ASN:HA	44:TI:144:GLY:H	1.87	0.40
44:TI:145:THR:HG22	46:TI:501:GTP:PG	2.62	0.40
44:TI:149:LEU:O	44:TI:153:LEU:HG	2.22	0.40
44:TI:233:GLN:O	44:TI:236:SER:OG	2.21	0.40
45:TJ:258:ILE:O	45:TJ:258:ILE:HG22	2.20	0.40
45:TJ:298:ASN:HB3	45:TJ:299:MET:CE	2.52	0.40
44:TK:102:ASN:HB3	44:TK:105:ARG:CG	2.51	0.40
44:TK:106:GLY:C	44:TK:148:GLY:HA3	2.41	0.40
45:TL:34:GLY:HA3	45:TL:58:ARG:HG3	2.04	0.40
45:TL:66:MET:HB3	45:TL:116:VAL:CG2	2.51	0.40
45:TL:205:GLU:HA	45:TL:208:TYR:CD2	2.57	0.40
45:TL:317:PHE:O	45:TL:354:CYS:N	2.53	0.40
45:TL:324:LYS:HB3	44:TM:222:PRO:HG2	2.03	0.40
44:TM:144:GLY:N	46:TM:501:GTP:PG	2.95	0.40
44:TM:145:THR:HG22	46:TM:501:GTP:O3B	2.22	0.40
44:UA:206:ASN:HA	44:UA:209:ILE:HD12	2.02	0.40
44:UA:317:MET:HG3	44:UA:318:MET:N	2.36	0.40
45:UB:1:MET:HG3	45:UB:2:ARG:N	2.37	0.40
45:UB:2:ARG:HA	45:UB:129:CYS:O	2.21	0.40
45:UB:2:ARG:HH21	45:UB:249:ASP:HB3	1.86	0.40
45:UB:345:ILE:HG13	44:UC:398:MET:HE3	2.03	0.40
45:UB:382:ALA:HB2	45:UB:415:MET:CE	2.51	0.40
45:UD:193:VAL:HG21	45:UD:418:LEU:CD2	2.48	0.40
44:UE:425:LEU:HA	44:UE:425:LEU:HD23	1.84	0.40
45:UF:5:VAL:CG1	45:UF:130:LEU:HD21	2.51	0.40
45:UF:294:PHE:HD2	45:UF:333:VAL:HG11	1.86	0.40
45:UF:317:PHE:O	45:UF:318:ARG:HG2	2.21	0.40
44:UG:26:LEU:O	44:UG:26:LEU:HG	2.22	0.40
44:UG:102:ASN:HB3	44:UG:105:ARG:HB2	2.04	0.40
45:UH:66:MET:HE1	45:UH:147:MET:SD	2.62	0.40
45:UJ:46:ARG:NH2	44:UK:73:THR:HA	2.33	0.40
44:UK:247:ALA:HB1	45:UL:222:TYR:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:UK:250:VAL:CG1	44:UK:254:GLU:HB2	2.51	0.40
44:UK:349:THR:O	44:UK:349:THR:CG2	2.69	0.40
45:UL:150:LEU:O	45:UL:154:LYS:HG3	2.21	0.40
45:UL:172:SER:HA	45:UL:173:PRO:HD3	1.97	0.40
44:UM:215:ARG:HH21	44:UM:300:ASN:CG	2.18	0.40
45:UN:21:TRP:O	45:UN:24:ILE:HB	2.21	0.40
45:UN:40:SER:OG	45:UN:43:GLN:HG3	2.21	0.40
45:UN:178:THR:HB	45:UN:181:GLU:CD	2.42	0.40
45:UN:180:VAL:HG21	45:UN:398:TYR:OH	2.21	0.40
45:UN:299:MET:HE1	45:UN:305:PRO:HG2	2.03	0.40
44:VA:9:VAL:HA	44:VA:68:LEU:O	2.21	0.40
44:VA:291:ILE:HG23	44:VA:292:THR:N	2.37	0.40
45:VB:135:ILE:HD12	45:VB:165:GLU:O	2.21	0.40
44:VC:182:VAL:C	44:VC:184:PRO:HD2	2.42	0.40
44:VC:358:GLN:CD	44:VC:359:PRO:HD2	2.42	0.40
44:VC:386:GLU:O	44:VC:390:ARG:N	2.44	0.40
45:VD:2:ARG:NE	45:VD:240:LEU:HG	2.37	0.40
45:VD:265:PHE:O	45:VD:266:PHE:CD1	2.74	0.40
44:VE:4:VAL:HG11	44:VE:252:ILE:HD12	2.03	0.40
44:VE:151:SER:O	44:VE:155:GLU:HG3	2.21	0.40
44:VE:241:SER:HA	44:VE:356:ASN:ND2	2.37	0.40
45:VF:253:LEU:O	45:VF:257:LEU:HD13	2.21	0.40
45:VF:296:ALA:CB	45:VF:305:PRO:HD2	2.52	0.40
44:VG:182:VAL:C	44:VG:184:PRO:HD2	2.42	0.40
44:VG:227:LEU:HD13	46:VG:501:GTP:HN21	1.86	0.40
44:VG:325:PRO:HG2	45:VJ:222:TYR:CE2	2.56	0.40
44:VI:429:GLU:OE1	44:VI:429:GLU:HA	2.22	0.40
45:VJ:285:THR:OG1	45:VJ:287:PRO:HD2	2.21	0.40
45:VJ:339:SER:O	45:VJ:340:TYR:CD1	2.74	0.40
45:VJ:342:VAL:HG11	45:VJ:345:ILE:CG2	2.52	0.40
44:VK:139:ASN:OD1	44:VK:170:THR:HG22	2.22	0.40
44:VK:320:ARG:HG3	44:VK:320:ARG:O	2.22	0.40
45:VL:3:GLU:H	45:VL:3:GLU:CD	2.25	0.40
45:VL:34:GLY:O	45:VL:58:ARG:HA	2.22	0.40
45:VL:204:ASN:O	45:VL:207:LEU:HB2	2.21	0.40
45:VL:252:LYS:HG2	45:VL:350:LYS:HZ1	1.85	0.40
44:VM:301:MET:SD	44:VM:302:MET:N	2.94	0.40
44:VM:310:GLY:C	44:VM:311:LYS:HD3	2.42	0.40
45:WB:20:PHE:O	45:WB:24:ILE:HG12	2.21	0.40
45:WB:388:MET:CE	45:WB:394:PHE:HD1	2.33	0.40
44:WC:258:ASN:CB	45:WF:179:VAL:HG22	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WD:215:LEU:HD23	45:WD:274:THR:O	2.20	0.40
44:WE:11:GLN:HE22	45:WF:246:LEU:CA	2.33	0.40
44:WE:263:PRO:HD3	45:WH:396:HIS:CE1	2.57	0.40
44:WE:312:TYR:C	44:WE:344:VAL:HG23	2.42	0.40
44:WE:323:VAL:O	44:WE:323:VAL:HG13	2.22	0.40
44:WG:242:LEU:HD11	44:WG:252:ILE:HD12	2.04	0.40
45:WH:91:VAL:HG11	45:WH:115:SER:CB	2.51	0.40
45:WH:175:VAL:O	45:WH:175:VAL:HG23	2.22	0.40
45:WH:200:MET:HG3	45:WH:266:PHE:HB2	2.04	0.40
45:WJ:257:LEU:CD2	45:WJ:368:VAL:HG12	2.51	0.40
44:WK:67:PHE:CD2	44:WK:92:LEU:HG	2.56	0.40
45:WL:39:ASP:OD1	45:WL:39:ASP:N	2.47	0.40
44:WM:224:TYR:CE1	45:WN:323:THR:HB	2.57	0.40
45:WN:263:LEU:HG	45:WN:422:TYR:CD1	2.57	0.40
45:WN:337:ASN:O	45:WN:341:PHE:HD1	2.04	0.40
45:WN:375:GLN:NE2	45:WN:376:GLU:OE2	2.51	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	6H	152/518 (29%)	123 (81%)	26 (17%)	3 (2%)	7	39
2	0A	150/236 (64%)	111 (74%)	34 (23%)	5 (3%)	4	29
2	1A	150/236 (64%)	109 (73%)	33 (22%)	8 (5%)	2	21
2	2A	150/236 (64%)	105 (70%)	40 (27%)	5 (3%)	4	29
2	3A	150/236 (64%)	114 (76%)	30 (20%)	6 (4%)	3	25
3	0B	317/329 (96%)	246 (78%)	64 (20%)	7 (2%)	6	37
4	0C	90/156 (58%)	70 (78%)	14 (16%)	6 (7%)	1	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	1C	90/156 (58%)	68 (76%)	17 (19%)	5 (6%)	2	20
5	0D	198/225 (88%)	151 (76%)	38 (19%)	9 (4%)	2	23
5	1D	198/225 (88%)	143 (72%)	46 (23%)	9 (4%)	2	23
5	2D	198/225 (88%)	149 (75%)	40 (20%)	9 (4%)	2	23
6	0E	187/191 (98%)	174 (93%)	12 (6%)	1 (0%)	29	67
6	1E	187/191 (98%)	173 (92%)	13 (7%)	1 (0%)	29	67
6	2E	185/191 (97%)	173 (94%)	11 (6%)	1 (0%)	29	67
6	3E	187/191 (98%)	174 (93%)	11 (6%)	2 (1%)	14	50
7	0F	202/219 (92%)	145 (72%)	50 (25%)	7 (4%)	3	28
8	0G	162/183 (88%)	121 (75%)	37 (23%)	4 (2%)	5	34
8	1G	127/183 (69%)	93 (73%)	31 (24%)	3 (2%)	6	35
9	0H	108/447 (24%)	96 (89%)	10 (9%)	2 (2%)	8	39
9	1H	414/447 (93%)	386 (93%)	26 (6%)	2 (0%)	29	67
10	0N	278/492 (56%)	261 (94%)	17 (6%)	0	100	100
10	1N	457/492 (93%)	433 (95%)	23 (5%)	1 (0%)	47	80
10	2N	278/492 (56%)	260 (94%)	18 (6%)	0	100	100
11	0Q	184/195 (94%)	160 (87%)	24 (13%)	0	100	100
11	1Q	184/195 (94%)	158 (86%)	26 (14%)	0	100	100
11	2Q	184/195 (94%)	168 (91%)	16 (9%)	0	100	100
11	3Q	184/195 (94%)	163 (89%)	20 (11%)	1 (0%)	29	67
11	4Q	184/195 (94%)	168 (91%)	16 (9%)	0	100	100
11	5Q	184/195 (94%)	168 (91%)	16 (9%)	0	100	100
11	6Q	184/195 (94%)	170 (92%)	14 (8%)	0	100	100
12	0S	275/319 (86%)	257 (94%)	17 (6%)	1 (0%)	34	71
12	1S	284/319 (89%)	255 (90%)	28 (10%)	1 (0%)	34	71
12	2S	282/319 (88%)	249 (88%)	32 (11%)	1 (0%)	34	71
12	3S	284/319 (89%)	258 (91%)	26 (9%)	0	100	100
13	0T	208/298 (70%)	189 (91%)	18 (9%)	1 (0%)	29	67
13	1T	279/298 (94%)	245 (88%)	34 (12%)	0	100	100
13	2T	281/298 (94%)	245 (87%)	36 (13%)	0	100	100
13	3T	283/298 (95%)	249 (88%)	34 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	0U	595/656 (91%)	531 (89%)	64 (11%)	0	100	100
14	1U	596/656 (91%)	511 (86%)	85 (14%)	0	100	100
14	2U	605/656 (92%)	528 (87%)	77 (13%)	0	100	100
14	3U	605/656 (92%)	535 (88%)	70 (12%)	0	100	100
15	0V	203/269 (76%)	170 (84%)	32 (16%)	1 (0%)	29	67
15	1V	239/269 (89%)	193 (81%)	40 (17%)	6 (2%)	5	34
15	2V	239/269 (89%)	191 (80%)	40 (17%)	8 (3%)	4	29
15	3V	243/269 (90%)	196 (81%)	42 (17%)	5 (2%)	7	38
16	0X	104/142 (73%)	95 (91%)	9 (9%)	0	100	100
16	1X	139/142 (98%)	134 (96%)	5 (4%)	0	100	100
16	2X	139/142 (98%)	129 (93%)	10 (7%)	0	100	100
16	3X	139/142 (98%)	129 (93%)	9 (6%)	1 (1%)	22	60
16	4X	139/142 (98%)	132 (95%)	6 (4%)	1 (1%)	22	60
17	1B	496/498 (100%)	459 (92%)	34 (7%)	3 (1%)	25	63
17	2B	293/498 (59%)	276 (94%)	16 (6%)	1 (0%)	41	75
17	3B	295/498 (59%)	270 (92%)	25 (8%)	0	100	100
18	1F	130/173 (75%)	112 (86%)	15 (12%)	3 (2%)	6	36
19	1I	182/263 (69%)	151 (83%)	29 (16%)	2 (1%)	14	50
20	1J	364/422 (86%)	308 (85%)	48 (13%)	8 (2%)	6	37
21	1K	264/489 (54%)	260 (98%)	4 (2%)	0	100	100
21	2K	273/489 (56%)	271 (99%)	2 (1%)	0	100	100
22	1L	808/940 (86%)	706 (87%)	95 (12%)	7 (1%)	17	54
22	2L	610/940 (65%)	547 (90%)	60 (10%)	3 (0%)	29	67
22	3L	198/940 (21%)	174 (88%)	19 (10%)	5 (2%)	5	34
23	1M	364/372 (98%)	326 (90%)	38 (10%)	0	100	100
23	2M	367/372 (99%)	336 (92%)	31 (8%)	0	100	100
24	1O	229/494 (46%)	225 (98%)	4 (2%)	0	100	100
24	2O	368/494 (74%)	364 (99%)	4 (1%)	0	100	100
24	3O	262/494 (53%)	256 (98%)	5 (2%)	1 (0%)	34	71
25	1P	342/507 (68%)	333 (97%)	9 (3%)	0	100	100
25	2P	176/507 (35%)	173 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	1R	496/516 (96%)	450 (91%)	45 (9%)	1 (0%)	47	80
26	2R	499/516 (97%)	451 (90%)	47 (9%)	1 (0%)	47	80
26	3R	499/516 (97%)	449 (90%)	47 (9%)	3 (1%)	25	63
27	1W	212/280 (76%)	199 (94%)	12 (6%)	1 (0%)	29	67
27	2W	102/280 (36%)	96 (94%)	6 (6%)	0	100	100
28	2C	298/300 (99%)	273 (92%)	24 (8%)	1 (0%)	41	75
28	3C	298/300 (99%)	267 (90%)	31 (10%)	0	100	100
28	4C	298/300 (99%)	272 (91%)	25 (8%)	1 (0%)	41	75
29	2F	85/96 (88%)	75 (88%)	10 (12%)	0	100	100
30	2G	94/99 (95%)	87 (93%)	7 (7%)	0	100	100
31	2H	59/229 (26%)	49 (83%)	9 (15%)	1 (2%)	9	42
31	3H	59/229 (26%)	50 (85%)	8 (14%)	1 (2%)	9	42
31	4H	59/229 (26%)	50 (85%)	8 (14%)	1 (2%)	9	42
32	2I	129/293 (44%)	105 (81%)	22 (17%)	2 (2%)	9	43
32	3I	83/293 (28%)	68 (82%)	14 (17%)	1 (1%)	13	48
33	3D	235/237 (99%)	224 (95%)	11 (5%)	0	100	100
34	4F	194/276 (70%)	170 (88%)	22 (11%)	2 (1%)	15	52
35	4R	601/613 (98%)	551 (92%)	50 (8%)	0	100	100
35	5R	600/613 (98%)	560 (93%)	40 (7%)	0	100	100
35	6R	607/613 (99%)	546 (90%)	58 (10%)	3 (0%)	29	67
35	7R	600/613 (98%)	558 (93%)	42 (7%)	0	100	100
36	4S	186/249 (75%)	181 (97%)	5 (3%)	0	100	100
36	5S	186/249 (75%)	174 (94%)	12 (6%)	0	100	100
37	5A	155/175 (89%)	127 (82%)	28 (18%)	0	100	100
37	5B	155/175 (89%)	123 (79%)	32 (21%)	0	100	100
37	5C	155/175 (89%)	126 (81%)	29 (19%)	0	100	100
37	5D	94/175 (54%)	58 (62%)	31 (33%)	5 (5%)	2	21
38	5E	178/247 (72%)	158 (89%)	18 (10%)	2 (1%)	14	50
38	5F	206/247 (83%)	166 (81%)	38 (18%)	2 (1%)	15	52
38	5G	202/247 (82%)	172 (85%)	28 (14%)	2 (1%)	15	52
38	5H	125/247 (51%)	96 (77%)	27 (22%)	2 (2%)	9	43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	5I	86/168 (51%)	81 (94%)	5 (6%)	0	100	100
39	5J	103/168 (61%)	97 (94%)	6 (6%)	0	100	100
39	5K	66/168 (39%)	58 (88%)	7 (11%)	1 (2%)	10	44
40	6F	127/145 (88%)	106 (84%)	19 (15%)	2 (2%)	9	43
41	6G	210/364 (58%)	187 (89%)	22 (10%)	1 (0%)	29	67
44	AA	434/449 (97%)	409 (94%)	25 (6%)	0	100	100
44	AC	434/449 (97%)	409 (94%)	25 (6%)	0	100	100
44	AE	437/449 (97%)	414 (95%)	23 (5%)	0	100	100
44	AG	437/449 (97%)	414 (95%)	23 (5%)	0	100	100
44	AI	437/449 (97%)	410 (94%)	27 (6%)	0	100	100
44	AK	437/449 (97%)	409 (94%)	28 (6%)	0	100	100
44	AM	435/449 (97%)	414 (95%)	21 (5%)	0	100	100
44	BA	428/449 (95%)	417 (97%)	11 (3%)	0	100	100
44	BC	428/449 (95%)	406 (95%)	22 (5%)	0	100	100
44	BE	428/449 (95%)	402 (94%)	26 (6%)	0	100	100
44	BG	426/449 (95%)	403 (95%)	23 (5%)	0	100	100
44	BI	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
44	BK	426/449 (95%)	405 (95%)	21 (5%)	0	100	100
44	BM	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
44	CA	437/449 (97%)	415 (95%)	22 (5%)	0	100	100
44	CC	437/449 (97%)	407 (93%)	30 (7%)	0	100	100
44	CE	437/449 (97%)	414 (95%)	23 (5%)	0	100	100
44	CG	435/449 (97%)	415 (95%)	20 (5%)	0	100	100
44	CI	437/449 (97%)	415 (95%)	22 (5%)	0	100	100
44	CK	433/449 (96%)	407 (94%)	26 (6%)	0	100	100
44	CM	437/449 (97%)	413 (94%)	24 (6%)	0	100	100
44	DA	429/449 (96%)	409 (95%)	19 (4%)	1 (0%)	47	80
44	DC	429/449 (96%)	401 (94%)	28 (6%)	0	100	100
44	DE	429/449 (96%)	400 (93%)	29 (7%)	0	100	100
44	DG	427/449 (95%)	402 (94%)	25 (6%)	0	100	100
44	DI	429/449 (96%)	396 (92%)	33 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	DK	432/449 (96%)	407 (94%)	25 (6%)	0	100	100
44	DM	429/449 (96%)	398 (93%)	30 (7%)	1 (0%)	47	80
44	EA	437/449 (97%)	411 (94%)	26 (6%)	0	100	100
44	EC	437/449 (97%)	400 (92%)	37 (8%)	0	100	100
44	EE	435/449 (97%)	397 (91%)	38 (9%)	0	100	100
44	EG	437/449 (97%)	406 (93%)	31 (7%)	0	100	100
44	EI	437/449 (97%)	407 (93%)	30 (7%)	0	100	100
44	EK	434/449 (97%)	407 (94%)	27 (6%)	0	100	100
44	EM	431/449 (96%)	396 (92%)	35 (8%)	0	100	100
44	FA	425/449 (95%)	399 (94%)	26 (6%)	0	100	100
44	FC	428/449 (95%)	395 (92%)	32 (8%)	1 (0%)	47	80
44	FE	430/449 (96%)	400 (93%)	30 (7%)	0	100	100
44	FG	435/449 (97%)	415 (95%)	20 (5%)	0	100	100
44	FI	429/449 (96%)	396 (92%)	33 (8%)	0	100	100
44	FK	428/449 (95%)	395 (92%)	33 (8%)	0	100	100
44	FM	406/449 (90%)	391 (96%)	15 (4%)	0	100	100
44	GA	425/449 (95%)	407 (96%)	18 (4%)	0	100	100
44	GC	425/449 (95%)	399 (94%)	26 (6%)	0	100	100
44	GE	427/449 (95%)	403 (94%)	24 (6%)	0	100	100
44	GG	427/449 (95%)	393 (92%)	34 (8%)	0	100	100
44	GI	427/449 (95%)	404 (95%)	23 (5%)	0	100	100
44	GK	434/449 (97%)	400 (92%)	34 (8%)	0	100	100
44	GM	423/449 (94%)	402 (95%)	21 (5%)	0	100	100
44	HA	424/449 (94%)	402 (95%)	22 (5%)	0	100	100
44	HC	427/449 (95%)	404 (95%)	23 (5%)	0	100	100
44	HE	427/449 (95%)	402 (94%)	25 (6%)	0	100	100
44	HG	427/449 (95%)	398 (93%)	29 (7%)	0	100	100
44	HI	424/449 (94%)	400 (94%)	24 (6%)	0	100	100
44	HK	427/449 (95%)	405 (95%)	22 (5%)	0	100	100
44	HM	427/449 (95%)	401 (94%)	25 (6%)	1 (0%)	47	80
44	IA	428/449 (95%)	410 (96%)	18 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	IC	437/449 (97%)	411 (94%)	26 (6%)	0	100	100
44	IE	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
44	IG	437/449 (97%)	416 (95%)	21 (5%)	0	100	100
44	II	437/449 (97%)	412 (94%)	25 (6%)	0	100	100
44	IK	428/449 (95%)	406 (95%)	22 (5%)	0	100	100
44	IM	428/449 (95%)	405 (95%)	23 (5%)	0	100	100
44	JA	428/449 (95%)	407 (95%)	21 (5%)	0	100	100
44	JC	430/449 (96%)	402 (94%)	28 (6%)	0	100	100
44	JE	437/449 (97%)	407 (93%)	30 (7%)	0	100	100
44	JG	437/449 (97%)	404 (92%)	31 (7%)	2 (0%)	29	67
44	JI	437/449 (97%)	403 (92%)	33 (8%)	1 (0%)	47	80
44	JK	437/449 (97%)	424 (97%)	13 (3%)	0	100	100
44	JM	430/449 (96%)	409 (95%)	21 (5%)	0	100	100
44	KA	430/449 (96%)	403 (94%)	27 (6%)	0	100	100
44	KC	429/449 (96%)	405 (94%)	24 (6%)	0	100	100
44	KE	431/449 (96%)	402 (93%)	29 (7%)	0	100	100
44	KG	437/449 (97%)	408 (93%)	28 (6%)	1 (0%)	47	80
44	KI	437/449 (97%)	413 (94%)	24 (6%)	0	100	100
44	KK	433/449 (96%)	402 (93%)	30 (7%)	1 (0%)	47	80
44	KM	430/449 (96%)	409 (95%)	21 (5%)	0	100	100
44	LA	437/449 (97%)	408 (93%)	29 (7%)	0	100	100
44	LC	437/449 (97%)	415 (95%)	22 (5%)	0	100	100
44	LE	430/449 (96%)	408 (95%)	22 (5%)	0	100	100
44	LG	437/449 (97%)	408 (93%)	29 (7%)	0	100	100
44	LI	430/449 (96%)	404 (94%)	26 (6%)	0	100	100
44	LK	437/449 (97%)	420 (96%)	15 (3%)	2 (0%)	29	67
44	LM	437/449 (97%)	414 (95%)	23 (5%)	0	100	100
44	MA	432/449 (96%)	410 (95%)	22 (5%)	0	100	100
44	MC	429/449 (96%)	402 (94%)	27 (6%)	0	100	100
44	ME	424/449 (94%)	396 (93%)	27 (6%)	1 (0%)	47	80
44	MG	430/449 (96%)	398 (93%)	31 (7%)	1 (0%)	47	80

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	MI	435/449 (97%)	408 (94%)	27 (6%)	0	100	100
44	MK	432/449 (96%)	415 (96%)	17 (4%)	0	100	100
44	MM	432/449 (96%)	408 (94%)	24 (6%)	0	100	100
44	NA	437/449 (97%)	413 (94%)	23 (5%)	1 (0%)	47	80
44	NC	428/449 (95%)	405 (95%)	23 (5%)	0	100	100
44	NE	437/449 (97%)	413 (94%)	23 (5%)	1 (0%)	47	80
44	NG	428/449 (95%)	403 (94%)	25 (6%)	0	100	100
44	NI	437/449 (97%)	407 (93%)	29 (7%)	1 (0%)	47	80
44	NK	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
44	NM	431/449 (96%)	399 (93%)	30 (7%)	2 (0%)	29	67
44	OA	427/449 (95%)	402 (94%)	25 (6%)	0	100	100
44	OC	429/449 (96%)	399 (93%)	30 (7%)	0	100	100
44	OE	429/449 (96%)	406 (95%)	23 (5%)	0	100	100
44	OG	429/449 (96%)	408 (95%)	21 (5%)	0	100	100
44	OI	429/449 (96%)	410 (96%)	19 (4%)	0	100	100
44	OK	429/449 (96%)	403 (94%)	26 (6%)	0	100	100
44	OM	429/449 (96%)	416 (97%)	13 (3%)	0	100	100
44	PA	425/449 (95%)	404 (95%)	21 (5%)	0	100	100
44	PC	425/449 (95%)	406 (96%)	19 (4%)	0	100	100
44	PE	425/449 (95%)	401 (94%)	24 (6%)	0	100	100
44	PG	425/449 (95%)	402 (95%)	23 (5%)	0	100	100
44	PI	423/449 (94%)	389 (92%)	32 (8%)	2 (0%)	29	67
44	PK	425/449 (95%)	401 (94%)	24 (6%)	0	100	100
44	PM	425/449 (95%)	405 (95%)	20 (5%)	0	100	100
44	QA	427/449 (95%)	408 (96%)	19 (4%)	0	100	100
44	QC	427/449 (95%)	398 (93%)	29 (7%)	0	100	100
44	QE	427/449 (95%)	404 (95%)	23 (5%)	0	100	100
44	QG	427/449 (95%)	397 (93%)	30 (7%)	0	100	100
44	QI	427/449 (95%)	406 (95%)	21 (5%)	0	100	100
44	QK	427/449 (95%)	400 (94%)	27 (6%)	0	100	100
44	QM	425/449 (95%)	404 (95%)	21 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	RA	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
44	RC	427/449 (95%)	409 (96%)	18 (4%)	0	100	100
44	RE	427/449 (95%)	400 (94%)	27 (6%)	0	100	100
44	RG	425/449 (95%)	387 (91%)	38 (9%)	0	100	100
44	RI	427/449 (95%)	397 (93%)	30 (7%)	0	100	100
44	RK	427/449 (95%)	398 (93%)	29 (7%)	0	100	100
44	RM	424/449 (94%)	396 (93%)	28 (7%)	0	100	100
44	SA	426/449 (95%)	410 (96%)	16 (4%)	0	100	100
44	SC	421/449 (94%)	395 (94%)	26 (6%)	0	100	100
44	SE	423/449 (94%)	398 (94%)	25 (6%)	0	100	100
44	SG	424/449 (94%)	382 (90%)	42 (10%)	0	100	100
44	SI	426/449 (95%)	398 (93%)	28 (7%)	0	100	100
44	SK	426/449 (95%)	401 (94%)	25 (6%)	0	100	100
44	SM	420/449 (94%)	398 (95%)	21 (5%)	1 (0%)	47	80
44	TA	426/449 (95%)	411 (96%)	15 (4%)	0	100	100
44	TC	426/449 (95%)	403 (95%)	23 (5%)	0	100	100
44	TE	426/449 (95%)	392 (92%)	34 (8%)	0	100	100
44	TG	423/449 (94%)	395 (93%)	28 (7%)	0	100	100
44	TI	426/449 (95%)	400 (94%)	26 (6%)	0	100	100
44	TK	426/449 (95%)	399 (94%)	27 (6%)	0	100	100
44	TM	423/449 (94%)	405 (96%)	18 (4%)	0	100	100
44	UA	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
44	UC	425/449 (95%)	395 (93%)	30 (7%)	0	100	100
44	UE	427/449 (95%)	401 (94%)	26 (6%)	0	100	100
44	UG	427/449 (95%)	394 (92%)	33 (8%)	0	100	100
44	UI	427/449 (95%)	402 (94%)	25 (6%)	0	100	100
44	UK	425/449 (95%)	393 (92%)	32 (8%)	0	100	100
44	UM	427/449 (95%)	399 (93%)	28 (7%)	0	100	100
44	VA	429/449 (96%)	405 (94%)	24 (6%)	0	100	100
44	VC	434/449 (97%)	401 (92%)	33 (8%)	0	100	100
44	VE	429/449 (96%)	409 (95%)	20 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	VG	437/449 (97%)	405 (93%)	32 (7%)	0	100	100
44	VI	429/449 (96%)	401 (94%)	28 (6%)	0	100	100
44	VK	437/449 (97%)	406 (93%)	31 (7%)	0	100	100
44	VM	428/449 (95%)	400 (94%)	27 (6%)	1 (0%)	47	80
44	WA	424/449 (94%)	401 (95%)	23 (5%)	0	100	100
44	WC	435/449 (97%)	404 (93%)	30 (7%)	1 (0%)	47	80
44	WE	427/449 (95%)	402 (94%)	25 (6%)	0	100	100
44	WG	435/449 (97%)	399 (92%)	35 (8%)	1 (0%)	47	80
44	WI	427/449 (95%)	401 (94%)	26 (6%)	0	100	100
44	WK	435/449 (97%)	403 (93%)	31 (7%)	1 (0%)	47	80
44	WM	427/449 (95%)	407 (95%)	19 (4%)	1 (0%)	47	80
45	AB	417/443 (94%)	400 (96%)	17 (4%)	0	100	100
45	AD	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	AF	428/443 (97%)	410 (96%)	17 (4%)	1 (0%)	47	80
45	AH	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	AJ	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
45	AL	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	AN	424/443 (96%)	403 (95%)	21 (5%)	0	100	100
45	BB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
45	BD	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
45	BF	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	BH	422/443 (95%)	406 (96%)	16 (4%)	0	100	100
45	BJ	426/443 (96%)	409 (96%)	17 (4%)	0	100	100
45	BL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	BN	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	CB	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	CD	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
45	CF	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	CH	426/443 (96%)	400 (94%)	26 (6%)	0	100	100
45	CJ	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	CL	425/443 (96%)	399 (94%)	26 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	CN	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	DB	424/443 (96%)	405 (96%)	19 (4%)	0	100	100
45	DD	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	DF	425/443 (96%)	405 (95%)	20 (5%)	0	100	100
45	DH	428/443 (97%)	407 (95%)	20 (5%)	1 (0%)	47	80
45	DJ	424/443 (96%)	403 (95%)	21 (5%)	0	100	100
45	DL	426/443 (96%)	403 (95%)	21 (5%)	2 (0%)	29	67
45	DN	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
45	EB	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	ED	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	EF	428/443 (97%)	399 (93%)	28 (6%)	1 (0%)	47	80
45	EH	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	EJ	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	EL	428/443 (97%)	399 (93%)	29 (7%)	0	100	100
45	EN	428/443 (97%)	400 (94%)	27 (6%)	1 (0%)	47	80
45	FB	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	FD	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	FF	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	FH	424/443 (96%)	395 (93%)	28 (7%)	1 (0%)	47	80
45	FJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
45	FL	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	FN	428/443 (97%)	397 (93%)	30 (7%)	1 (0%)	47	80
45	GB	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	GD	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	GF	425/443 (96%)	402 (95%)	23 (5%)	0	100	100
45	GH	426/443 (96%)	408 (96%)	17 (4%)	1 (0%)	47	80
45	GJ	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	GL	428/443 (97%)	407 (95%)	21 (5%)	0	100	100
45	GN	426/443 (96%)	397 (93%)	29 (7%)	0	100	100
45	HB	424/443 (96%)	409 (96%)	14 (3%)	1 (0%)	47	80
45	HD	428/443 (97%)	408 (95%)	20 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	HF	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	HH	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	HJ	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	HL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	HN	428/443 (97%)	403 (94%)	24 (6%)	1 (0%)	47	80
45	IB	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
45	ID	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	IF	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	IH	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	IJ	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	IL	425/443 (96%)	407 (96%)	18 (4%)	0	100	100
45	IN	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	JB	428/443 (97%)	407 (95%)	21 (5%)	0	100	100
45	JD	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	JF	426/443 (96%)	408 (96%)	17 (4%)	1 (0%)	47	80
45	JH	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	JJ	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
45	JL	426/443 (96%)	400 (94%)	26 (6%)	0	100	100
45	JN	428/443 (97%)	400 (94%)	28 (6%)	0	100	100
45	KB	428/443 (97%)	407 (95%)	21 (5%)	0	100	100
45	KD	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	KF	428/443 (97%)	403 (94%)	25 (6%)	0	100	100
45	KH	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	KJ	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	KL	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	KN	423/443 (96%)	394 (93%)	29 (7%)	0	100	100
45	LB	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	LD	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	LF	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	LH	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	LJ	428/443 (97%)	410 (96%)	18 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	LL	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	LN	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	MB	426/443 (96%)	399 (94%)	27 (6%)	0	100	100
45	MD	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	MF	425/443 (96%)	401 (94%)	23 (5%)	1 (0%)	47	80
45	MH	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	MJ	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	ML	426/443 (96%)	406 (95%)	20 (5%)	0	100	100
45	MN	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	NB	419/443 (95%)	403 (96%)	16 (4%)	0	100	100
45	ND	428/443 (97%)	407 (95%)	21 (5%)	0	100	100
45	NF	419/443 (95%)	397 (95%)	22 (5%)	0	100	100
45	NH	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	NJ	419/443 (95%)	398 (95%)	21 (5%)	0	100	100
45	NL	428/443 (97%)	399 (93%)	29 (7%)	0	100	100
45	NN	416/443 (94%)	395 (95%)	21 (5%)	0	100	100
45	OB	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	OD	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	OF	428/443 (97%)	400 (94%)	28 (6%)	0	100	100
45	OH	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	OJ	428/443 (97%)	395 (92%)	33 (8%)	0	100	100
45	OL	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	ON	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
45	PB	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	PD	423/443 (96%)	399 (94%)	24 (6%)	0	100	100
45	PF	428/443 (97%)	395 (92%)	33 (8%)	0	100	100
45	PH	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	PJ	428/443 (97%)	408 (95%)	20 (5%)	0	100	100
45	PL	428/443 (97%)	398 (93%)	30 (7%)	0	100	100
45	PN	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	QB	428/443 (97%)	411 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	QD	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	QF	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
45	QH	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
45	QJ	424/443 (96%)	406 (96%)	18 (4%)	0	100	100
45	QL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	QN	407/443 (92%)	397 (98%)	10 (2%)	0	100	100
45	RB	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	RD	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	RF	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	RH	428/443 (97%)	402 (94%)	26 (6%)	0	100	100
45	RJ	428/443 (97%)	402 (94%)	26 (6%)	0	100	100
45	RL	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	RN	428/443 (97%)	415 (97%)	12 (3%)	1 (0%)	47	80
45	SB	425/443 (96%)	404 (95%)	21 (5%)	0	100	100
45	SD	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	SF	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
45	SH	428/443 (97%)	407 (95%)	21 (5%)	0	100	100
45	SJ	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	SL	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	SN	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
45	TB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
45	TD	428/443 (97%)	405 (95%)	23 (5%)	0	100	100
45	TF	428/443 (97%)	404 (94%)	24 (6%)	0	100	100
45	TH	426/443 (96%)	396 (93%)	30 (7%)	0	100	100
45	TJ	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	TL	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	TN	424/443 (96%)	412 (97%)	12 (3%)	0	100	100
45	UB	423/443 (96%)	415 (98%)	8 (2%)	0	100	100
45	UD	426/443 (96%)	406 (95%)	20 (5%)	0	100	100
45	UF	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
45	UH	428/443 (97%)	403 (94%)	25 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	UJ	428/443 (97%)	401 (94%)	27 (6%)	0	100	100
45	UL	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
45	UN	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	VB	428/443 (97%)	408 (95%)	19 (4%)	1 (0%)	47	80
45	VD	426/443 (96%)	400 (94%)	25 (6%)	1 (0%)	47	80
45	VF	425/443 (96%)	403 (95%)	22 (5%)	0	100	100
45	VH	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
45	VJ	428/443 (97%)	402 (94%)	26 (6%)	0	100	100
45	VL	426/443 (96%)	406 (95%)	20 (5%)	0	100	100
45	VN	425/443 (96%)	411 (97%)	13 (3%)	1 (0%)	47	80
45	WB	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
45	WD	428/443 (97%)	406 (95%)	22 (5%)	0	100	100
45	WF	428/443 (97%)	401 (94%)	26 (6%)	1 (0%)	47	80
45	WH	426/443 (96%)	402 (94%)	23 (5%)	1 (0%)	47	80
45	WJ	426/443 (96%)	403 (95%)	23 (5%)	0	100	100
45	WL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
45	WN	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
All	All	164328/178382 (92%)	154012 (94%)	10079 (6%)	237 (0%)	54	84

All (237) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	6H	243	LYS
2	0A	20	PRO
3	0B	33	GLN
3	0B	44	ILE
3	0B	67	THR
3	0B	208	VAL
4	0C	45	PRO
4	0C	57	TYR
5	0D	39	PRO
5	0D	74	GLN
5	0D	85	VAL
5	0D	96	VAL
5	0D	167	ILE
5	0D	218	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	0F	8	PRO
7	0F	33	PRO
7	0F	86	ARG
7	0F	162	GLU
8	0G	22	PHE
9	0H	367	LEU
9	0H	420	GLN
13	0T	127	GLU
15	0V	125	MET
2	1A	20	PRO
2	1A	90	GLN
17	1B	202	VAL
17	1B	315	SER
4	1C	45	PRO
4	1C	57	TYR
5	1D	39	PRO
5	1D	74	GLN
5	1D	85	VAL
5	1D	167	ILE
5	1D	218	GLN
18	1F	30	PRO
18	1F	169	ALA
9	1H	335	ALA
9	1H	420	GLN
20	1J	221	ASP
20	1J	248	LYS
20	1J	332	ILE
22	1L	28	ASN
22	1L	129	SER
22	1L	215	VAL
22	1L	368	PHE
22	1L	802	ASP
15	1V	46	PRO
15	1V	88	LYS
15	1V	260	LYS
17	2B	202	VAL
28	2C	99	LEU
5	2D	39	PRO
5	2D	74	GLN
5	2D	85	VAL
5	2D	96	VAL
5	2D	167	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
32	2I	76	PRO
32	2I	78	PRO
22	2L	368	PHE
22	2L	802	ASP
15	2V	46	PRO
15	2V	237	LEU
2	3A	20	PRO
2	3A	90	GLN
31	3H	207	LYS
22	3L	28	ASN
22	3L	129	SER
22	3L	215	VAL
24	3O	480	PRO
11	3Q	72	LYS
26	3R	296	PRO
26	3R	444	ASP
15	3V	46	PRO
15	3V	202	GLN
34	4F	17	LYS
34	4F	28	VAL
31	4H	206	SER
37	5D	53	PRO
38	5E	164	LYS
38	5F	164	LYS
38	5G	124	TYR
38	5G	164	LYS
40	6F	20	THR
41	6G	116	ILE
45	AF	286	VAL
45	DH	272	PRO
45	DL	376	GLU
45	DL	379	LYS
44	FC	364	PRO
45	FN	323	THR
45	GH	323	THR
45	HB	286	VAL
44	HM	242	LEU
45	HN	286	VAL
45	JF	209	ASP
44	JI	42	ILE
44	ME	37	PRO
45	MF	276	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	PI	261	PRO
45	RN	286	VAL
45	VB	286	VAL
45	VD	286	VAL
45	VN	286	VAL
45	WF	286	VAL
45	WH	286	VAL
44	WM	175	PRO
2	0A	90	GLN
3	0B	25	ASN
3	0B	247	ALA
4	0C	92	GLN
5	0D	122	ASP
5	0D	191	PHE
7	0F	64	TYR
7	0F	72	ASP
7	0F	185	GLU
8	0G	139	ILE
2	1A	114	ALA
17	1B	306	VAL
4	1C	35	SER
5	1D	96	VAL
5	1D	122	ASP
18	1F	161	ILE
20	1J	262	VAL
22	1L	60	VAL
22	1L	795	ASN
10	1N	428	HIS
15	1V	125	MET
2	2A	90	GLN
5	2D	122	ASP
5	2D	191	PHE
31	2H	207	LYS
22	2L	795	ASN
12	2S	7	GLN
15	2V	88	LYS
15	2V	125	MET
22	3L	60	VAL
15	3V	88	LYS
15	3V	125	MET
16	4X	31	ASP
37	5D	20	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	5F	124	TYR
40	6F	124	ARG
35	6R	50	ASP
45	EN	119	VAL
44	KK	47	ASP
44	LK	49	PHE
44	MG	291	ILE
2	1A	59	ALA
4	1C	51	ASN
27	1W	266	LEU
2	2A	113	THR
2	2A	119	PHE
5	2D	218	GLN
2	3A	59	ALA
37	5D	61	SER
37	5D	106	SER
45	FH	325	GLU
44	JG	286	LEU
44	VM	325	PRO
1	6H	200	GLN
2	0A	119	PHE
4	0C	35	SER
4	0C	51	ASN
5	0D	220	ILE
8	0G	119	ILE
2	1A	119	PHE
8	1G	119	ILE
8	1G	139	ILE
20	1J	197	HIS
12	1S	98	GLN
15	1V	265	VAL
26	2R	43	PRO
15	2V	55	PHE
15	2V	198	PHE
15	2V	265	VAL
6	3E	43	VAL
15	3V	265	VAL
16	3X	31	ASP
38	5E	50	GLU
38	5H	50	GLU
44	NE	42	ILE
44	NI	42	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	SM	224	TYR
1	6H	170	TYR
2	1A	116	THR
5	1D	220	ILE
6	1E	43	VAL
19	1I	38	ILE
20	1J	352	LYS
2	2A	59	ALA
2	3A	119	PHE
6	3E	44	ASP
35	6R	384	PRO
44	DM	38	SER
44	JG	285	GLN
44	KG	47	ASP
44	NA	42	ILE
44	NM	42	ILE
44	PI	262	TYR
2	0A	88	VAL
2	0A	116	THR
4	0C	71	LYS
12	0S	98	GLN
2	1A	122	GLN
4	1C	91	ASP
5	1D	31	LYS
19	1I	193	GLN
6	2E	43	VAL
2	3A	122	GLN
22	3L	116	LYS
28	4C	140	GLN
37	5D	123	ALA
38	5H	33	TYR
44	DA	38	SER
45	EF	376	GLU
44	LK	40	LYS
15	1V	236	GLY
15	2V	236	GLY
35	6R	107	PRO
44	WC	42	ILE
5	2D	220	ILE
2	1A	88	VAL
20	1J	326	LYS
2	2A	88	VAL

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Mol	Chain	Res	Type
44	WK	42	ILE
3	0B	122	ILE
6	0E	43	VAL
8	1G	66	ILE
20	1J	145	ILE
26	1R	43	PRO
32	3I	205	ILE
26	3R	43	PRO
44	NM	366	GLY
44	WG	42	ILE
8	0G	66	ILE
2	3A	131	ILE
39	5K	94	ILE

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	6H	151/474 (32%)	141 (93%)	10 (7%)	16	44
2	0A	133/213 (62%)	133 (100%)	0	100	100
2	1A	133/213 (62%)	133 (100%)	0	100	100
2	2A	133/213 (62%)	132 (99%)	1 (1%)	81	88
2	3A	133/213 (62%)	132 (99%)	1 (1%)	81	88
3	0B	291/301 (97%)	291 (100%)	0	100	100
4	0C	81/137 (59%)	81 (100%)	0	100	100
4	1C	81/137 (59%)	79 (98%)	2 (2%)	47	68
5	0D	176/198 (89%)	176 (100%)	0	100	100
5	1D	176/198 (89%)	176 (100%)	0	100	100
5	2D	176/198 (89%)	173 (98%)	3 (2%)	60	78
6	0E	172/175 (98%)	172 (100%)	0	100	100
6	1E	172/175 (98%)	170 (99%)	2 (1%)	71	83
6	2E	172/175 (98%)	170 (99%)	2 (1%)	71	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	3E	172/175 (98%)	172 (100%)	0	100	100
7	0F	182/194 (94%)	180 (99%)	2 (1%)	73	84
8	0G	153/167 (92%)	152 (99%)	1 (1%)	84	90
8	1G	123/167 (74%)	122 (99%)	1 (1%)	81	88
9	0H	101/413 (24%)	100 (99%)	1 (1%)	76	85
9	1H	387/413 (94%)	380 (98%)	7 (2%)	59	77
10	0N	256/451 (57%)	256 (100%)	0	100	100
10	1N	423/451 (94%)	422 (100%)	1 (0%)	93	96
10	2N	256/451 (57%)	256 (100%)	0	100	100
11	0Q	174/182 (96%)	172 (99%)	2 (1%)	73	84
11	1Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
11	2Q	174/182 (96%)	174 (100%)	0	100	100
11	3Q	174/182 (96%)	172 (99%)	2 (1%)	73	84
11	4Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
11	5Q	174/182 (96%)	174 (100%)	0	100	100
11	6Q	174/182 (96%)	172 (99%)	2 (1%)	73	84
12	0S	247/286 (86%)	243 (98%)	4 (2%)	62	78
12	1S	257/286 (90%)	256 (100%)	1 (0%)	91	94
12	2S	257/286 (90%)	256 (100%)	1 (0%)	91	94
12	3S	257/286 (90%)	256 (100%)	1 (0%)	91	94
13	0T	184/264 (70%)	183 (100%)	1 (0%)	88	93
13	1T	251/264 (95%)	250 (100%)	1 (0%)	91	94
13	2T	251/264 (95%)	247 (98%)	4 (2%)	62	78
13	3T	251/264 (95%)	250 (100%)	1 (0%)	91	94
14	0U	528/571 (92%)	527 (100%)	1 (0%)	93	96
14	1U	528/571 (92%)	527 (100%)	1 (0%)	93	96
14	2U	528/571 (92%)	527 (100%)	1 (0%)	93	96
14	3U	528/571 (92%)	523 (99%)	5 (1%)	78	87
15	0V	196/249 (79%)	194 (99%)	2 (1%)	76	85
15	1V	244/249 (98%)	244 (100%)	0	100	100
15	2V	244/249 (98%)	244 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	3V	244/249 (98%)	241 (99%)	3 (1%)	71	83
16	0X	94/129 (73%)	94 (100%)	0	100	100
16	1X	128/129 (99%)	128 (100%)	0	100	100
16	2X	128/129 (99%)	128 (100%)	0	100	100
16	3X	128/129 (99%)	128 (100%)	0	100	100
16	4X	128/129 (99%)	125 (98%)	3 (2%)	50	70
17	1B	441/441 (100%)	440 (100%)	1 (0%)	93	96
17	2B	264/441 (60%)	263 (100%)	1 (0%)	91	94
17	3B	265/441 (60%)	264 (100%)	1 (0%)	91	94
18	1F	121/157 (77%)	120 (99%)	1 (1%)	81	88
19	1I	172/239 (72%)	169 (98%)	3 (2%)	60	78
20	1J	328/370 (89%)	328 (100%)	0	100	100
21	1K	253/463 (55%)	252 (100%)	1 (0%)	91	94
21	2K	262/463 (57%)	262 (100%)	0	100	100
22	1L	771/878 (88%)	769 (100%)	2 (0%)	92	95
22	2L	580/878 (66%)	577 (100%)	3 (0%)	88	93
22	3L	191/878 (22%)	189 (99%)	2 (1%)	76	85
23	1M	323/325 (99%)	322 (100%)	1 (0%)	92	95
23	2M	323/325 (99%)	322 (100%)	1 (0%)	92	95
24	1O	223/458 (49%)	220 (99%)	3 (1%)	69	81
24	2O	346/458 (76%)	344 (99%)	2 (1%)	86	92
24	3O	245/458 (54%)	245 (100%)	0	100	100
25	1P	318/471 (68%)	318 (100%)	0	100	100
25	2P	158/471 (34%)	158 (100%)	0	100	100
26	1R	466/475 (98%)	464 (100%)	2 (0%)	91	94
26	2R	466/475 (98%)	465 (100%)	1 (0%)	93	96
26	3R	466/475 (98%)	466 (100%)	0	100	100
27	1W	202/265 (76%)	201 (100%)	1 (0%)	88	93
27	2W	96/265 (36%)	95 (99%)	1 (1%)	76	85
28	2C	271/271 (100%)	270 (100%)	1 (0%)	91	94
28	3C	271/271 (100%)	270 (100%)	1 (0%)	91	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	4C	271/271 (100%)	268 (99%)	3 (1%)	73	84
29	2F	81/90 (90%)	81 (100%)	0	100	100
30	2G	91/91 (100%)	91 (100%)	0	100	100
31	2H	59/212 (28%)	59 (100%)	0	100	100
31	3H	59/212 (28%)	59 (100%)	0	100	100
31	4H	59/212 (28%)	59 (100%)	0	100	100
32	2I	115/259 (44%)	114 (99%)	1 (1%)	78	87
32	3I	80/259 (31%)	80 (100%)	0	100	100
33	3D	195/195 (100%)	193 (99%)	2 (1%)	76	85
34	4F	180/245 (74%)	180 (100%)	0	100	100
35	4R	561/568 (99%)	558 (100%)	3 (0%)	88	93
35	5R	561/568 (99%)	558 (100%)	3 (0%)	88	93
35	6R	561/568 (99%)	528 (94%)	33 (6%)	19	48
35	7R	561/568 (99%)	561 (100%)	0	100	100
36	4S	169/222 (76%)	168 (99%)	1 (1%)	86	92
36	5S	169/222 (76%)	167 (99%)	2 (1%)	71	83
37	5A	140/159 (88%)	140 (100%)	0	100	100
37	5B	140/159 (88%)	140 (100%)	0	100	100
37	5C	140/159 (88%)	140 (100%)	0	100	100
37	5D	93/159 (58%)	92 (99%)	1 (1%)	73	84
38	5E	165/227 (73%)	164 (99%)	1 (1%)	86	92
38	5F	194/227 (86%)	193 (100%)	1 (0%)	88	93
38	5G	194/227 (86%)	194 (100%)	0	100	100
38	5H	117/227 (52%)	117 (100%)	0	100	100
39	5I	83/160 (52%)	82 (99%)	1 (1%)	71	83
39	5J	101/160 (63%)	99 (98%)	2 (2%)	55	73
39	5K	65/160 (41%)	64 (98%)	1 (2%)	65	79
40	6F	128/141 (91%)	127 (99%)	1 (1%)	81	88
41	6G	194/329 (59%)	193 (100%)	1 (0%)	88	93
44	AA	370/376 (98%)	370 (100%)	0	100	100
44	AC	370/376 (98%)	368 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	AE	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	AG	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	AI	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	AK	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	AM	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	BA	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	BC	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	BE	366/376 (97%)	366 (100%)	0	100	100
44	BG	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	BI	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	BK	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	BM	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	CA	370/376 (98%)	364 (98%)	6 (2%)	62	78
44	CC	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	CE	370/376 (98%)	366 (99%)	4 (1%)	73	84
44	CG	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	CI	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	CK	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	CM	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	DA	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	DC	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	DE	367/376 (98%)	365 (100%)	2 (0%)	88	93
44	DG	368/376 (98%)	367 (100%)	1 (0%)	92	95
44	DI	367/376 (98%)	364 (99%)	3 (1%)	81	88
44	DK	368/376 (98%)	367 (100%)	1 (0%)	92	95
44	DM	367/376 (98%)	365 (100%)	2 (0%)	88	93
44	EA	368/376 (98%)	365 (99%)	3 (1%)	81	88
44	EC	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	EE	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	EG	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	EI	370/376 (98%)	370 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	EK	370/376 (98%)	365 (99%)	5 (1%)	67	80
44	EM	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	FA	363/376 (96%)	363 (100%)	0	100	100
44	FC	366/376 (97%)	366 (100%)	0	100	100
44	FE	367/376 (98%)	365 (100%)	2 (0%)	88	93
44	FG	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	FI	367/376 (98%)	362 (99%)	5 (1%)	67	80
44	FK	366/376 (97%)	366 (100%)	0	100	100
44	FM	344/376 (92%)	344 (100%)	0	100	100
44	GA	363/376 (96%)	362 (100%)	1 (0%)	92	95
44	GC	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	GE	365/376 (97%)	362 (99%)	3 (1%)	81	88
44	GG	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	GI	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	GK	370/376 (98%)	370 (100%)	0	100	100
44	GM	363/376 (96%)	362 (100%)	1 (0%)	92	95
44	HA	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	HC	365/376 (97%)	361 (99%)	4 (1%)	73	84
44	HE	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	HG	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	HI	365/376 (97%)	365 (100%)	0	100	100
44	HK	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	HM	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	IA	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	IC	370/376 (98%)	370 (100%)	0	100	100
44	IE	366/376 (97%)	366 (100%)	0	100	100
44	IG	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	II	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	IK	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	IM	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	JA	366/376 (97%)	365 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	JC	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	JE	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	JG	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	JI	369/376 (98%)	369 (100%)	0	100	100
44	JK	370/376 (98%)	370 (100%)	0	100	100
44	JM	367/376 (98%)	364 (99%)	3 (1%)	81	88
44	KA	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	KC	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	KE	368/376 (98%)	365 (99%)	3 (1%)	81	88
44	KG	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	KI	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	KK	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	KM	367/376 (98%)	363 (99%)	4 (1%)	73	84
44	LA	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	LC	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	LE	369/376 (98%)	366 (99%)	3 (1%)	81	88
44	LG	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	LI	368/376 (98%)	368 (100%)	0	100	100
44	LK	370/376 (98%)	361 (98%)	9 (2%)	49	69
44	LM	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	MA	369/376 (98%)	369 (100%)	0	100	100
44	MC	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	ME	367/376 (98%)	367 (100%)	0	100	100
44	MG	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	MI	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	MK	367/376 (98%)	365 (100%)	2 (0%)	88	93
44	MM	369/376 (98%)	368 (100%)	1 (0%)	92	95
44	NA	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	NC	366/376 (97%)	366 (100%)	0	100	100
44	NE	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	NG	366/376 (97%)	365 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	NI	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	NK	366/376 (97%)	366 (100%)	0	100	100
44	NM	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	OA	366/376 (97%)	366 (100%)	0	100	100
44	OC	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	OE	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	OG	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	OI	366/376 (97%)	365 (100%)	1 (0%)	92	95
44	OK	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	OM	366/376 (97%)	366 (100%)	0	100	100
44	PA	363/376 (96%)	362 (100%)	1 (0%)	92	95
44	PC	363/376 (96%)	362 (100%)	1 (0%)	92	95
44	PE	363/376 (96%)	362 (100%)	1 (0%)	92	95
44	PG	363/376 (96%)	361 (99%)	2 (1%)	86	92
44	PI	363/376 (96%)	360 (99%)	3 (1%)	81	88
44	PK	363/376 (96%)	361 (99%)	2 (1%)	86	92
44	PM	363/376 (96%)	360 (99%)	3 (1%)	81	88
44	QA	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	QC	365/376 (97%)	362 (99%)	3 (1%)	81	88
44	QE	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	QG	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	QI	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	QK	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	QM	365/376 (97%)	362 (99%)	3 (1%)	81	88
44	RA	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	RC	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	RE	365/376 (97%)	362 (99%)	3 (1%)	81	88
44	RG	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	RI	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	RK	365/376 (97%)	365 (100%)	0	100	100
44	RM	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	SA	364/376 (97%)	363 (100%)	1 (0%)	92	95
44	SC	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	SE	364/376 (97%)	360 (99%)	4 (1%)	73	84
44	SG	364/376 (97%)	361 (99%)	3 (1%)	81	88
44	SI	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	SK	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	SM	364/376 (97%)	363 (100%)	1 (0%)	92	95
44	TA	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	TC	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	TE	364/376 (97%)	361 (99%)	3 (1%)	81	88
44	TG	364/376 (97%)	362 (100%)	2 (0%)	88	93
44	TI	364/376 (97%)	361 (99%)	3 (1%)	81	88
44	TK	364/376 (97%)	364 (100%)	0	100	100
44	TM	364/376 (97%)	363 (100%)	1 (0%)	92	95
44	UA	364/376 (97%)	361 (99%)	3 (1%)	81	88
44	UC	365/376 (97%)	365 (100%)	0	100	100
44	UE	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	UG	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	UI	365/376 (97%)	364 (100%)	1 (0%)	92	95
44	UK	365/376 (97%)	365 (100%)	0	100	100
44	UM	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	VA	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	VC	370/376 (98%)	368 (100%)	2 (0%)	88	93
44	VE	367/376 (98%)	366 (100%)	1 (0%)	92	95
44	VG	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	VI	367/376 (98%)	365 (100%)	2 (0%)	88	93
44	VK	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	VM	366/376 (97%)	364 (100%)	2 (0%)	88	93
44	WA	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	WC	370/376 (98%)	369 (100%)	1 (0%)	92	95
44	WE	365/376 (97%)	363 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	WG	370/376 (98%)	367 (99%)	3 (1%)	81	88
44	WI	365/376 (97%)	363 (100%)	2 (0%)	88	93
44	WK	370/376 (98%)	366 (99%)	4 (1%)	73	84
44	WM	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	AB	356/376 (95%)	354 (99%)	2 (1%)	86	92
45	AD	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	AF	365/376 (97%)	365 (100%)	0	100	100
45	AH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	AJ	365/376 (97%)	365 (100%)	0	100	100
45	AL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	AN	365/376 (97%)	365 (100%)	0	100	100
45	BB	365/376 (97%)	365 (100%)	0	100	100
45	BD	365/376 (97%)	365 (100%)	0	100	100
45	BF	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	BH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	BJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	BL	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	BN	365/376 (97%)	365 (100%)	0	100	100
45	CB	365/376 (97%)	365 (100%)	0	100	100
45	CD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	CF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	CH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	CJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	CL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	CN	365/376 (97%)	365 (100%)	0	100	100
45	DB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	DD	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	DF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	DH	365/376 (97%)	365 (100%)	0	100	100
45	DJ	365/376 (97%)	365 (100%)	0	100	100
45	DL	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	DN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	EB	365/376 (97%)	365 (100%)	0	100	100
45	ED	365/376 (97%)	365 (100%)	0	100	100
45	EF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	EH	365/376 (97%)	365 (100%)	0	100	100
45	EJ	365/376 (97%)	365 (100%)	0	100	100
45	EL	365/376 (97%)	365 (100%)	0	100	100
45	EN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	FB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	FD	365/376 (97%)	365 (100%)	0	100	100
45	FF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	FH	365/376 (97%)	365 (100%)	0	100	100
45	FJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	FL	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	FN	365/376 (97%)	365 (100%)	0	100	100
45	GB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	GD	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	GF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	GH	365/376 (97%)	365 (100%)	0	100	100
45	GJ	365/376 (97%)	365 (100%)	0	100	100
45	GL	365/376 (97%)	365 (100%)	0	100	100
45	GN	365/376 (97%)	365 (100%)	0	100	100
45	HB	365/376 (97%)	365 (100%)	0	100	100
45	HD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	HF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	HH	365/376 (97%)	365 (100%)	0	100	100
45	HJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	HL	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	HN	365/376 (97%)	365 (100%)	0	100	100
45	IB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	ID	365/376 (97%)	364 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	IF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	IH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	IJ	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	IL	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	IN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	JB	365/376 (97%)	365 (100%)	0	100	100
45	JD	365/376 (97%)	365 (100%)	0	100	100
45	JF	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	JH	365/376 (97%)	365 (100%)	0	100	100
45	JJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	JL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	JN	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	KB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	KD	365/376 (97%)	365 (100%)	0	100	100
45	KF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	KH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	KJ	365/376 (97%)	365 (100%)	0	100	100
45	KL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	KN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	LB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	LD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	LF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	LH	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	LJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	LL	365/376 (97%)	365 (100%)	0	100	100
45	LN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	MB	365/376 (97%)	365 (100%)	0	100	100
45	MD	365/376 (97%)	365 (100%)	0	100	100
45	MF	365/376 (97%)	365 (100%)	0	100	100
45	MH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	MJ	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	ML	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	MN	365/376 (97%)	365 (100%)	0	100	100
45	NB	359/376 (96%)	359 (100%)	0	100	100
45	ND	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	NF	359/376 (96%)	357 (99%)	2 (1%)	86	92
45	NH	365/376 (97%)	365 (100%)	0	100	100
45	NJ	359/376 (96%)	358 (100%)	1 (0%)	92	95
45	NL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	NN	359/376 (96%)	357 (99%)	2 (1%)	86	92
45	OB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	OD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	OF	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	OH	365/376 (97%)	365 (100%)	0	100	100
45	OJ	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	OL	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	ON	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	PB	362/376 (96%)	360 (99%)	2 (1%)	86	92
45	PD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	PF	365/376 (97%)	365 (100%)	0	100	100
45	PH	365/376 (97%)	365 (100%)	0	100	100
45	PJ	365/376 (97%)	365 (100%)	0	100	100
45	PL	365/376 (97%)	365 (100%)	0	100	100
45	PN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	QB	365/376 (97%)	365 (100%)	0	100	100
45	QD	365/376 (97%)	365 (100%)	0	100	100
45	QF	365/376 (97%)	365 (100%)	0	100	100
45	QH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	QJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	QL	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	QN	342/376 (91%)	342 (100%)	0	100	100
45	RB	365/376 (97%)	363 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	RD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	RF	365/376 (97%)	365 (100%)	0	100	100
45	RH	365/376 (97%)	365 (100%)	0	100	100
45	RJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	RL	365/376 (97%)	365 (100%)	0	100	100
45	RN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	SB	365/376 (97%)	365 (100%)	0	100	100
45	SD	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	SF	365/376 (97%)	365 (100%)	0	100	100
45	SH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	SJ	365/376 (97%)	365 (100%)	0	100	100
45	SL	365/376 (97%)	365 (100%)	0	100	100
45	SN	365/376 (97%)	365 (100%)	0	100	100
45	TB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	TD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	TF	365/376 (97%)	365 (100%)	0	100	100
45	TH	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	TJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	TL	365/376 (97%)	365 (100%)	0	100	100
45	TN	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UB	365/376 (97%)	365 (100%)	0	100	100
45	UD	365/376 (97%)	365 (100%)	0	100	100
45	UF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UH	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	UL	365/376 (97%)	365 (100%)	0	100	100
45	UN	365/376 (97%)	365 (100%)	0	100	100
45	VB	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	VD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	VF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	VH	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	VJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	VL	365/376 (97%)	365 (100%)	0	100	100
45	VN	365/376 (97%)	365 (100%)	0	100	100
45	WB	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	WD	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	WF	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	WH	365/376 (97%)	361 (99%)	4 (1%)	73	84
45	WJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	WL	365/376 (97%)	365 (100%)	0	100	100
45	WN	365/376 (97%)	364 (100%)	1 (0%)	92	95
All	All	142145/152741 (93%)	141590 (100%)	555 (0%)	91	94

All (555) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	6H	175	TYR
1	6H	179	PHE
1	6H	224	SER
1	6H	226	PHE
1	6H	266	LYS
1	6H	268	MET
1	6H	366	ASP
1	6H	370	HIS
1	6H	373	PHE
1	6H	379	ASP
7	0F	14	LYS
7	0F	104	ASN
8	0G	12	LYS
9	0H	426	LYS
11	0Q	27	LYS
11	0Q	102	ARG
12	0S	18	ARG
12	0S	107	GLN
12	0S	136	ARG
12	0S	253	ARG
13	0T	128	GLU
14	0U	483	ARG
15	0V	19	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	0V	24	ARG
17	1B	110	ARG
4	1C	59	LYS
4	1C	122	ARG
6	1E	73	ARG
6	1E	89	ARG
18	1F	120	ASN
8	1G	110	ASN
9	1H	80	ARG
9	1H	129	ARG
9	1H	188	LYS
9	1H	206	ARG
9	1H	252	ARG
9	1H	309	LYS
9	1H	366	LYS
19	1I	74	ASN
19	1I	90	ASN
19	1I	179	ARG
21	1K	80	ARG
22	1L	915	ARG
22	1L	933	LYS
23	1M	47	LYS
10	1N	144	ARG
24	1O	106	LYS
24	1O	122	LYS
24	1O	164	LYS
11	1Q	113	ARG
26	1R	236	MET
26	1R	244	ARG
12	1S	253	ARG
13	1T	216	LYS
14	1U	153	LYS
27	1W	54	ARG
2	2A	127	ASN
17	2B	153	LYS
28	2C	130	ARG
5	2D	49	LYS
5	2D	161	LYS
5	2D	212	ASN
6	2E	73	ARG
6	2E	89	ARG
32	2I	209	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
22	2L	582	LYS
22	2L	643	ARG
22	2L	933	LYS
23	2M	139	LYS
24	2O	128	ARG
24	2O	413	GLN
26	2R	422	LYS
12	2S	253	ARG
13	2T	12	LYS
13	2T	114	LYS
13	2T	202	ARG
13	2T	216	LYS
14	2U	183	LYS
27	2W	203	LYS
2	3A	36	ARG
17	3B	206	ARG
28	3C	279	ARG
33	3D	197	ARG
33	3D	226	LYS
22	3L	57	ARG
22	3L	196	ARG
11	3Q	35	LYS
11	3Q	113	ARG
12	3S	253	ARG
13	3T	223	ARG
14	3U	224	ARG
14	3U	309	LYS
14	3U	395	LYS
14	3U	449	ARG
14	3U	512	ARG
15	3V	113	ARG
15	3V	158	LYS
15	3V	209	ARG
28	4C	61	LYS
28	4C	109	LYS
28	4C	236	LYS
11	4Q	35	LYS
35	4R	196	LYS
35	4R	293	HIS
35	4R	311	LYS
36	4S	184	ARG
16	4X	25	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
16	4X	56	LYS
16	4X	139	ARG
37	5D	54	ARG
38	5E	129	ARG
38	5F	209	ARG
39	5I	116	ASN
39	5J	77	LYS
39	5J	116	ASN
39	5K	77	LYS
35	5R	7	LYS
35	5R	379	LYS
35	5R	438	ASN
36	5S	130	ARG
36	5S	197	ARG
40	6F	92	LYS
41	6G	301	ARG
11	6Q	113	ARG
11	6Q	163	ARG
35	6R	16	CYS
35	6R	24	SER
35	6R	36	ASN
35	6R	38	HIS
35	6R	52	TYR
35	6R	61	THR
35	6R	90	ARG
35	6R	110	ASN
35	6R	130	ASN
35	6R	157	THR
35	6R	173	LEU
35	6R	196	LYS
35	6R	200	SER
35	6R	215	LEU
35	6R	225	THR
35	6R	235	LYS
35	6R	318	TYR
35	6R	334	LEU
35	6R	344	ASN
35	6R	366	LEU
35	6R	378	ILE
35	6R	379	LYS
35	6R	382	TYR
35	6R	385	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	6R	452	THR
35	6R	456	TYR
35	6R	458	THR
35	6R	489	ASP
35	6R	506	LEU
35	6R	537	LYS
35	6R	556	ILE
35	6R	576	LEU
35	6R	597	ASN
45	AB	300	MET
45	AB	318	ARG
44	AC	326	LYS
44	AC	370	LYS
45	AD	14	ASN
45	AD	318	ARG
44	AE	326	LYS
44	AG	2	ARG
44	AG	326	LYS
44	AG	373	ARG
45	AH	174	LYS
44	AI	326	LYS
44	AK	18	ASN
45	AL	174	LYS
44	AM	123	ARG
44	AM	326	LYS
44	BA	2	ARG
44	BC	326	LYS
44	BC	370	LYS
45	BF	306	ARG
45	BF	359	LYS
44	BG	243	ARG
44	BG	329	ASN
45	BH	298	ASN
44	BI	206	ASN
45	BJ	37	HIS
44	BK	308	ARG
44	BK	326	LYS
45	BL	122	LYS
45	BL	174	LYS
44	BM	430	LYS
44	CA	2	ARG
44	CA	50	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	CA	221	ARG
44	CA	326	LYS
44	CA	336	LYS
44	CA	370	LYS
44	CC	326	LYS
44	CC	430	LYS
45	CD	252	LYS
44	CE	326	LYS
44	CE	370	LYS
44	CE	373	ARG
44	CE	430	LYS
45	CF	320	ARG
44	CG	221	ARG
44	CG	280	LYS
45	CH	267	MET
44	CI	2	ARG
44	CI	123	ARG
44	CI	326	LYS
45	CJ	414	ASN
44	CK	112	LYS
45	CL	200	MET
44	CM	326	LYS
44	DA	326	LYS
45	DB	156	ARG
44	DC	326	LYS
45	DD	2	ARG
45	DD	190	HIS
45	DD	262	ARG
44	DE	79	ARG
44	DE	326	LYS
45	DF	213	ARG
44	DG	326	LYS
44	DI	96	LYS
44	DI	128	ASN
44	DI	326	LYS
44	DK	280	LYS
44	DM	2	ARG
44	DM	326	LYS
45	DN	156	ARG
44	EA	64	ARG
44	EA	304	LYS
44	EA	326	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	EC	2	ARG
44	EC	156	ARG
44	EE	326	LYS
44	EE	402	ARG
45	EF	370	ASN
44	EG	2	ARG
44	EK	2	ARG
44	EK	107	HIS
44	EK	304	LYS
44	EK	326	LYS
44	EK	370	LYS
44	EM	326	LYS
45	EN	2	ARG
45	FB	262	ARG
44	FE	2	ARG
44	FE	339	ARG
45	FF	359	LYS
44	FG	264	ARG
44	FG	280	LYS
44	FI	2	ARG
44	FI	112	LYS
44	FI	326	LYS
44	FI	402	ARG
44	FI	422	ARG
45	FJ	320	ARG
45	FL	247	ASN
45	FL	282	ARG
44	GA	243	ARG
45	GB	213	ARG
44	GC	123	ARG
44	GC	422	ARG
45	GD	86	ARG
45	GD	121	ARG
44	GE	280	LYS
44	GE	326	LYS
44	GE	339	ARG
45	GF	121	ARG
44	GG	326	LYS
44	GI	2	ARG
44	GI	358	GLN
44	GM	326	LYS
44	HA	2	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	HA	352	LYS
44	HC	112	LYS
44	HC	326	LYS
44	HC	370	LYS
44	HC	430	LYS
45	HD	396	HIS
44	HE	352	LYS
45	HF	359	LYS
44	HG	326	LYS
45	HJ	156	ARG
45	HJ	320	ARG
44	HK	84	ARG
45	HL	359	LYS
45	HL	362	LYS
44	HM	2	ARG
44	IA	326	LYS
44	IA	370	LYS
45	IB	306	ARG
45	ID	122	LYS
45	IF	306	ARG
44	IG	50	ASN
44	IG	107	HIS
44	IG	326	LYS
45	IH	414	ASN
44	II	268	MET
44	II	326	LYS
44	II	370	LYS
45	IJ	2	ARG
45	IJ	359	LYS
45	IJ	406	MET
44	IK	84	ARG
45	IL	200	MET
45	IL	318	ARG
45	IL	362	LYS
44	IM	2	ARG
44	IM	326	LYS
45	IN	276	ARG
44	JA	2	ARG
44	JC	128	ASN
44	JE	2	ARG
45	JF	350	LYS
45	JF	359	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	JF	414	ASN
44	JG	373	ARG
45	JJ	426	GLN
45	JL	347	ASN
44	JM	96	LYS
44	JM	243	ARG
44	JM	326	LYS
45	JN	282	ARG
45	JN	359	LYS
44	KA	326	LYS
45	KB	350	LYS
44	KC	326	LYS
44	KE	112	LYS
44	KE	326	LYS
44	KE	339	ARG
45	KF	426	GLN
44	KG	215	ARG
45	KH	297	LYS
44	KI	2	ARG
44	KI	339	ARG
44	KK	326	LYS
45	KL	2	ARG
44	KM	96	LYS
44	KM	215	ARG
44	KM	243	ARG
44	KM	326	LYS
45	KN	213	ARG
44	LA	2	ARG
44	LA	304	LYS
44	LA	326	LYS
45	LB	121	ARG
44	LC	2	ARG
44	LC	192	HIS
45	LD	320	ARG
44	LE	233	GLN
44	LE	326	LYS
44	LE	370	LYS
45	LF	291	GLN
44	LG	2	ARG
45	LH	297	LYS
45	LH	324	LYS
45	LJ	390	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	LK	35	GLN
44	LK	36	MET
44	LK	38	SER
44	LK	39	ASP
44	LK	42	ILE
44	LK	46	ASP
44	LK	268	MET
44	LK	284	GLU
44	LK	286	LEU
44	LM	326	LYS
45	LN	298	ASN
44	MC	326	LYS
44	MG	2	ARG
44	MG	326	LYS
44	MG	373	ARG
45	MH	414	ASN
44	MI	214	ARG
44	MK	2	ARG
44	MK	326	LYS
45	ML	174	LYS
44	MM	352	LYS
44	NA	2	ARG
44	NA	216	ASN
45	ND	392	LYS
44	NE	304	LYS
44	NE	370	LYS
45	NF	298	ASN
45	NF	414	ASN
44	NG	370	LYS
44	NI	50	ASN
44	NI	214	ARG
45	NJ	362	LYS
45	NL	359	LYS
44	NM	128	ASN
44	NM	304	LYS
45	NN	2	ARG
45	NN	380	ARG
45	OB	306	ARG
44	OC	430	LYS
45	OD	321	MET
44	OE	2	ARG
44	OE	215	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	OF	241	ARG
45	OF	306	ARG
44	OG	370	LYS
44	OI	2	ARG
45	OJ	298	ASN
45	OJ	306	ARG
45	OJ	390	ARG
44	OK	2	ARG
44	OK	430	LYS
45	OL	320	ARG
45	ON	306	ARG
44	PA	326	LYS
45	PB	62	ARG
45	PB	320	ARG
44	PC	326	LYS
45	PD	320	ARG
44	PE	326	LYS
44	PG	2	ARG
44	PG	326	LYS
44	PI	2	ARG
44	PI	326	LYS
44	PI	370	LYS
44	PK	2	ARG
44	PK	326	LYS
44	PM	2	ARG
44	PM	214	ARG
44	PM	326	LYS
45	PN	174	LYS
44	QA	326	LYS
44	QC	2	ARG
44	QC	304	LYS
44	QC	326	LYS
44	QE	2	ARG
44	QE	326	LYS
44	QG	326	LYS
45	QH	320	ARG
44	QI	2	ARG
44	QI	339	ARG
45	QJ	359	LYS
44	QK	60	LYS
44	QK	326	LYS
45	QL	62	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	QL	350	LYS
44	QM	96	LYS
44	QM	326	LYS
44	QM	422	ARG
44	RA	326	LYS
45	RB	293	MET
45	RB	414	ASN
44	RC	326	LYS
44	RC	402	ARG
45	RD	2	ARG
44	RE	326	LYS
44	RE	370	LYS
44	RE	377	MET
44	RG	326	LYS
44	RG	422	ARG
44	RI	326	LYS
45	RJ	77	ARG
45	RN	390	ARG
44	SA	326	LYS
44	SC	214	ARG
44	SC	326	LYS
45	SD	156	ARG
45	SD	306	ARG
44	SE	2	ARG
44	SE	84	ARG
44	SE	326	LYS
44	SE	352	LYS
44	SG	2	ARG
44	SG	326	LYS
44	SG	402	ARG
45	SH	174	LYS
44	SI	2	ARG
44	SI	326	LYS
44	SK	221	ARG
44	SK	352	LYS
44	SM	326	LYS
44	TA	320	ARG
44	TA	326	LYS
45	TB	267	MET
44	TC	84	ARG
44	TC	326	LYS
45	TD	423	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	TE	243	ARG
44	TE	326	LYS
44	TE	373	ARG
44	TG	123	ARG
44	TG	326	LYS
45	TH	262	ARG
45	TH	306	ARG
45	TH	359	LYS
44	TI	79	ARG
44	TI	326	LYS
44	TI	422	ARG
45	TJ	262	ARG
44	TM	326	LYS
45	TN	19	LYS
44	UA	304	LYS
44	UA	320	ARG
44	UA	326	LYS
44	UE	2	ARG
44	UE	326	LYS
45	UF	174	LYS
44	UG	326	LYS
45	UH	298	ASN
44	UI	326	LYS
45	UJ	2	ARG
45	UJ	122	LYS
44	UM	2	ARG
44	UM	402	ARG
44	VA	430	LYS
45	VB	77	ARG
45	VB	414	ASN
44	VC	2	ARG
44	VC	326	LYS
45	VD	359	LYS
44	VE	326	LYS
45	VF	200	MET
44	VG	326	LYS
44	VI	2	ARG
44	VI	326	LYS
45	VJ	297	LYS
45	VJ	324	LYS
44	VK	2	ARG
44	VK	243	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	VK	326	LYS
44	VM	2	ARG
44	VM	123	ARG
44	WA	326	LYS
44	WA	430	LYS
45	WB	324	LYS
44	WC	402	ARG
45	WD	320	ARG
44	WE	326	LYS
44	WE	338	LYS
45	WF	359	LYS
44	WG	2	ARG
44	WG	326	LYS
44	WG	430	LYS
45	WH	298	ASN
45	WH	320	ARG
45	WH	359	LYS
45	WH	426	GLN
44	WI	229	ARG
44	WI	326	LYS
45	WJ	359	LYS
44	WK	64	ARG
44	WK	221	ARG
44	WK	304	LYS
44	WK	326	LYS
44	WM	221	ARG
44	WM	326	LYS
45	WN	282	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1425) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6H	208	ASN
1	6H	267	GLN
1	6H	292	ASN
1	6H	339	GLN
1	6H	344	ASN
2	0A	33	GLN
2	0A	101	ASN
2	0A	105	HIS
3	0B	60	ASN
3	0B	91	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	0B	103	GLN
3	0B	123	GLN
5	0D	52	ASN
5	0D	70	GLN
5	0D	77	ASN
5	0D	80[A]	GLN
5	0D	137	GLN
7	0F	152	HIS
7	0F	216	ASN
8	0G	57	ASN
8	0G	72	GLN
9	0H	346	GLN
9	0H	436	GLN
10	0N	5	ASN
10	0N	211	HIS
11	0Q	92	GLN
11	0Q	131	GLN
11	0Q	157	HIS
11	0Q	159	ASN
12	0S	8	GLN
12	0S	20	ASN
12	0S	112	GLN
13	0T	280	GLN
14	0U	42	HIS
14	0U	115	GLN
14	0U	171	GLN
14	0U	274	GLN
14	0U	351	ASN
14	0U	359	GLN
14	0U	418	GLN
14	0U	463	GLN
14	0U	495	GLN
14	0U	547	HIS
14	0U	574	HIS
14	0U	587	GLN
15	0V	29	ASN
15	0V	64	HIS
15	0V	128	GLN
16	0X	97	GLN
2	1A	17	GLN
2	1A	90	GLN
2	1A	117	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	1A	136	ASN
17	1B	341	GLN
4	1C	69	HIS
4	1C	70	HIS
5	1D	17	HIS
5	1D	52	ASN
6	1E	75	ASN
6	1E	141	GLN
6	1E	148	GLN
18	1F	167	HIS
8	1G	73	HIS
8	1G	89	HIS
8	1G	176	HIS
9	1H	95	ASN
9	1H	96	GLN
9	1H	172	GLN
9	1H	176	ASN
9	1H	430	ASN
19	1I	19	GLN
20	1J	101	GLN
20	1J	233	GLN
20	1J	252	GLN
20	1J	346	ASN
21	1K	15	ASN
21	1K	165	GLN
22	1L	95	GLN
22	1L	108	GLN
22	1L	435	GLN
22	1L	523	GLN
22	1L	578	ASN
22	1L	594	GLN
22	1L	656	ASN
10	1N	160	GLN
10	1N	169	GLN
10	1N	211	HIS
10	1N	247	GLN
10	1N	320	ASN
10	1N	330	ASN
10	1N	355	HIS
24	1O	100	GLN
25	1P	156	GLN
25	1P	219	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	1R	205	GLN
26	1R	289	ASN
12	1S	8	GLN
12	1S	24	GLN
12	1S	42	ASN
12	1S	277	GLN
13	1T	96	GLN
14	1U	151	GLN
14	1U	301	ASN
14	1U	495	GLN
14	1U	537	ASN
14	1U	587	GLN
15	1V	40	ASN
15	1V	128	GLN
15	1V	174	HIS
15	1V	186	HIS
27	1W	161	ASN
27	1W	171	ASN
27	1W	222	ASN
16	1X	78	ASN
16	1X	103	ASN
2	2A	17	GLN
2	2A	128	HIS
2	2A	136	ASN
28	2C	160	ASN
5	2D	79	GLN
5	2D	93	GLN
5	2D	137	GLN
6	2E	148	GLN
6	2E	153	ASN
29	2F	22	HIS
29	2F	53	HIS
30	2G	34	HIS
31	2H	190	GLN
31	2H	201	ASN
31	2H	211	HIS
21	2K	263	ASN
22	2L	428	GLN
22	2L	594	GLN
22	2L	780	GLN
23	2M	324	HIS
10	2N	5	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	2N	11	GLN
10	2N	88	ASN
24	2O	207	HIS
24	2O	367	GLN
24	2O	385	GLN
24	2O	390	ASN
24	2O	440	GLN
25	2P	470	ASN
11	2Q	53	ASN
12	2S	150	GLN
12	2S	277	GLN
14	2U	74	GLN
14	2U	96	HIS
14	2U	113	ASN
14	2U	127	ASN
14	2U	270	GLN
14	2U	463	GLN
14	2U	587	GLN
15	2V	64	HIS
15	2V	128	GLN
15	2V	202	GLN
15	2V	228	HIS
27	2W	212	GLN
27	2W	250	ASN
16	2X	47	GLN
2	3A	17	GLN
2	3A	23	HIS
2	3A	69	ASN
2	3A	151	HIS
17	3B	251	GLN
28	3C	41	GLN
28	3C	123	HIS
28	3C	219	GLN
28	3C	245	ASN
33	3D	35	GLN
6	3E	153	ASN
6	3E	160	GLN
32	3I	197	GLN
22	3L	108	GLN
22	3L	113	ASN
22	3L	173	GLN
24	3O	458	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	3Q	92	GLN
26	3R	33	ASN
26	3R	40	ASN
26	3R	176	GLN
12	3S	20	ASN
12	3S	24	GLN
12	3S	42	ASN
12	3S	112	GLN
12	3S	235	GLN
12	3S	260	ASN
13	3T	254	ASN
14	3U	24	HIS
14	3U	74	GLN
14	3U	127	ASN
14	3U	267	GLN
14	3U	270	GLN
14	3U	274	GLN
14	3U	324	ASN
14	3U	353	GLN
14	3U	463	GLN
15	3V	141	ASN
16	3X	45	GLN
16	3X	78	ASN
28	4C	192	GLN
34	4F	52	GLN
34	4F	110	ASN
34	4F	129	ASN
34	4F	151	HIS
35	4R	30	GLN
35	4R	82	GLN
35	4R	481	ASN
35	4R	555	ASN
16	4X	41	GLN
16	4X	137	GLN
37	5B	149	ASN
37	5B	173	GLN
37	5C	81	HIS
37	5C	90	GLN
37	5C	122	ASN
37	5C	135	ASN
37	5C	142	GLN
38	5E	188	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	5E	192	ASN
38	5F	63	HIS
38	5G	88	HIS
38	5G	111	ASN
38	5G	140	ASN
38	5H	16	GLN
39	5J	33	GLN
35	5R	15	HIS
35	5R	141	GLN
35	5R	405	GLN
35	5R	478	ASN
36	5S	166	GLN
40	6F	42	ASN
40	6F	82	GLN
40	6F	112	HIS
41	6G	202	ASN
41	6G	215	GLN
35	6R	4	ASN
35	6R	35	ASN
35	6R	43	ASN
35	6R	128	HIS
35	6R	130	ASN
35	6R	229	ASN
35	6R	232	ASN
35	6R	242	ASN
35	6R	246	GLN
35	6R	317	HIS
35	6R	344	ASN
35	6R	351	ASN
35	6R	365	ASN
35	6R	421	GLN
35	6R	491	GLN
35	6R	513	HIS
35	6R	579	ASN
35	6R	583	GLN
35	7R	141	GLN
35	7R	368	GLN
35	7R	438	ASN
35	7R	478	ASN
44	AA	18	ASN
44	AA	61	HIS
44	AA	197	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	AB	8	GLN
45	AB	14	ASN
45	AB	83	GLN
45	AB	89	ASN
45	AB	334	GLN
45	AB	414	ASN
44	AC	18	ASN
44	AC	88	HIS
44	AC	91	GLN
45	AD	28	HIS
45	AD	134	GLN
45	AD	227	HIS
45	AD	256	ASN
44	AE	11	GLN
44	AE	15	GLN
44	AE	88	HIS
44	AE	329	ASN
45	AF	100	ASN
45	AF	195	ASN
45	AF	204	ASN
45	AF	226	ASN
45	AF	245	GLN
45	AF	247	ASN
44	AG	342	GLN
45	AH	6	HIS
45	AH	100	ASN
45	AH	134	GLN
45	AH	191	GLN
45	AH	334	GLN
45	AH	424	GLN
44	AI	11	GLN
44	AI	197	HIS
44	AI	258	ASN
44	AI	358	GLN
45	AJ	256	ASN
45	AJ	280	GLN
45	AJ	426	GLN
44	AK	31	GLN
44	AK	88	HIS
44	AK	102	ASN
44	AK	228	ASN
44	AK	258	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	AK	358	GLN
45	AL	226	ASN
45	AL	279	GLN
44	AM	11	GLN
44	AM	18	ASN
44	AM	101	ASN
44	AM	256	GLN
45	AN	8	GLN
45	AN	100	ASN
45	AN	105	HIS
45	AN	134	GLN
45	AN	226	ASN
45	AN	424	GLN
44	BA	31	GLN
44	BA	101	ASN
44	BA	258	ASN
45	BB	100	ASN
44	BC	101	ASN
45	BD	190	HIS
45	BD	256	ASN
45	BD	279	GLN
45	BD	329	GLN
45	BD	334	GLN
44	BE	91	GLN
44	BE	406	HIS
45	BF	131	GLN
45	BF	256	ASN
45	BF	329	GLN
44	BG	91	GLN
44	BG	197	HIS
44	BG	356	ASN
45	BH	279	GLN
44	BI	88	HIS
44	BI	91	GLN
44	BI	258	ASN
44	BI	283	HIS
45	BJ	134	GLN
45	BJ	195	ASN
45	BJ	256	ASN
45	BJ	307	HIS
45	BJ	384	GLN
44	BK	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	BK	15	GLN
44	BK	91	GLN
45	BL	131	GLN
45	BL	191	GLN
45	BL	256	ASN
45	BL	279	GLN
45	BL	334	GLN
45	BL	347	ASN
44	BM	61	HIS
44	BM	91	GLN
44	BM	197	HIS
44	BM	285	GLN
45	BN	8	GLN
45	BN	247	ASN
45	BN	279	GLN
45	BN	347	ASN
45	BN	348	ASN
44	CA	35	GLN
44	CA	258	ASN
45	CB	99	ASN
45	CB	100	ASN
45	CB	190	HIS
45	CB	227	HIS
45	CB	256	ASN
45	CB	414	ASN
44	CC	28	HIS
44	CC	85	GLN
44	CC	91	GLN
45	CD	89	ASN
45	CD	134	GLN
44	CE	8	HIS
44	CE	35	GLN
44	CE	233	GLN
45	CF	134	GLN
45	CF	227	HIS
45	CF	414	ASN
44	CG	91	GLN
44	CG	101	ASN
44	CG	128	ASN
44	CG	258	ASN
44	CG	283	HIS
44	CG	285	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	CH	100	ASN
45	CH	134	GLN
45	CH	256	ASN
44	CI	258	ASN
44	CI	285	GLN
44	CI	342	GLN
45	CJ	52	ASN
45	CJ	190	HIS
45	CJ	191	GLN
45	CJ	329	GLN
44	CK	11	GLN
44	CK	258	ASN
44	CK	342	GLN
45	CL	100	ASN
45	CL	256	ASN
45	CL	329	GLN
45	CL	335	ASN
44	CM	11	GLN
44	CM	50	ASN
44	CM	91	GLN
44	CM	101	ASN
44	CM	128	ASN
44	CM	258	ASN
45	CN	15	GLN
45	CN	100	ASN
45	CN	227	HIS
44	DA	85	GLN
44	DA	256	GLN
44	DA	342	GLN
44	DA	358	GLN
45	DB	8	GLN
45	DB	134	GLN
45	DB	195	ASN
45	DB	247	ASN
45	DB	334	GLN
45	DB	348	ASN
45	DB	423	GLN
44	DC	8	HIS
44	DC	11	GLN
44	DC	216	ASN
44	DC	256	GLN
44	DC	258	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	DC	285	GLN
44	DC	358	GLN
45	DD	8	GLN
45	DD	100	ASN
45	DD	247	ASN
45	DD	384	GLN
45	DD	396	HIS
45	DD	414	ASN
44	DE	101	ASN
44	DE	285	GLN
45	DF	8	GLN
45	DF	134	GLN
45	DF	247	ASN
45	DF	256	ASN
44	DG	228	ASN
44	DG	258	ASN
44	DG	380	ASN
45	DH	11	GLN
45	DH	43	GLN
45	DH	190	HIS
45	DH	191	GLN
45	DH	298	ASN
45	DH	334	GLN
44	DI	197	HIS
44	DI	228	ASN
44	DI	283	HIS
44	DI	300	ASN
45	DJ	6	HIS
45	DJ	100	ASN
45	DJ	247	ASN
45	DJ	329	GLN
44	DK	85	GLN
44	DK	258	ASN
44	DK	358	GLN
45	DL	8	GLN
45	DL	48	ASN
45	DL	99	ASN
45	DL	247	ASN
45	DL	334	GLN
45	DL	347	ASN
45	DL	396	HIS
44	DM	8	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	DM	31	GLN
44	DM	85	GLN
44	DM	285	GLN
44	DM	329	ASN
45	DN	6	HIS
45	DN	100	ASN
45	DN	191	GLN
45	DN	264	HIS
45	DN	280	GLN
44	EA	228	ASN
45	EB	8	GLN
45	EB	28	HIS
45	EB	100	ASN
45	EB	334	GLN
45	EB	384	GLN
44	EC	197	HIS
44	EC	258	ASN
45	ED	6	HIS
45	ED	100	ASN
45	ED	245	GLN
45	ED	256	ASN
45	ED	334	GLN
45	ED	423	GLN
45	ED	424	GLN
44	EE	8	HIS
44	EE	91	GLN
44	EE	101	ASN
44	EE	285	GLN
44	EE	329	ASN
45	EF	100	ASN
44	EG	31	GLN
44	EG	356	ASN
45	EH	8	GLN
45	EH	89	ASN
45	EH	256	ASN
45	EH	334	GLN
45	EJ	6	HIS
45	EJ	131	GLN
45	EJ	190	HIS
45	EJ	226	ASN
45	EJ	280	GLN
44	EK	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	EK	258	ASN
44	EK	283	HIS
45	EL	89	ASN
45	EL	348	ASN
45	EN	28	HIS
45	EN	43	GLN
45	EN	83	GLN
45	EN	89	ASN
45	EN	94	GLN
45	EN	100	ASN
44	FA	15	GLN
44	FA	380	ASN
45	FB	89	ASN
45	FB	134	GLN
45	FB	256	ASN
45	FB	334	GLN
44	FC	28	HIS
44	FC	91	GLN
44	FC	101	ASN
44	FC	107	HIS
45	FD	8	GLN
45	FD	11	GLN
45	FD	134	GLN
45	FD	137	HIS
45	FD	247	ASN
45	FD	279	GLN
45	FD	334	GLN
45	FD	396	HIS
44	FE	11	GLN
44	FE	85	GLN
44	FE	91	GLN
44	FE	285	GLN
44	FE	406	HIS
45	FF	14	ASN
45	FF	100	ASN
45	FF	227	HIS
45	FF	256	ASN
45	FF	280	GLN
45	FF	329	GLN
45	FF	334	GLN
45	FF	384	GLN
44	FG	128	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	FG	342	GLN
45	FH	89	ASN
45	FH	227	HIS
45	FH	247	ASN
44	FI	226	ASN
44	FI	329	ASN
45	FJ	256	ASN
45	FJ	279	GLN
44	FK	102	ASN
44	FK	197	HIS
44	FK	216	ASN
44	FK	293	ASN
45	FL	94	GLN
45	FL	100	ASN
45	FL	134	GLN
45	FL	256	ASN
45	FL	334	GLN
44	FM	61	HIS
44	FM	88	HIS
44	FM	91	GLN
45	FN	8	GLN
45	FN	134	GLN
45	FN	191	GLN
45	FN	195	ASN
45	FN	291	GLN
45	FN	334	GLN
45	FN	348	ASN
44	GA	11	GLN
44	GA	258	ASN
44	GA	406	HIS
45	GB	8	GLN
45	GB	100	ASN
45	GB	134	GLN
44	GC	11	GLN
44	GC	35	GLN
44	GC	85	GLN
44	GC	101	ASN
44	GC	342	GLN
45	GD	89	ASN
45	GD	247	ASN
45	GD	256	ASN
45	GD	329	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	GD	337	ASN
44	GE	406	HIS
45	GF	100	ASN
45	GF	334	GLN
45	GF	348	ASN
44	GG	28	HIS
44	GG	176	GLN
44	GG	256	GLN
45	GH	256	ASN
45	GH	329	GLN
45	GH	332	ASN
44	GI	61	HIS
44	GI	285	GLN
45	GJ	329	GLN
45	GL	43	GLN
45	GL	256	ASN
45	GL	334	GLN
44	GM	11	GLN
44	GM	15	GLN
45	GN	15	GLN
45	GN	99	ASN
45	GN	100	ASN
45	GN	195	ASN
44	HA	28	HIS
44	HA	61	HIS
44	HA	258	ASN
44	HA	329	ASN
45	HB	100	ASN
45	HB	131	GLN
45	HB	292	GLN
44	HC	91	GLN
44	HC	258	ASN
45	HD	89	ASN
45	HD	134	GLN
44	HE	11	GLN
44	HE	15	GLN
44	HE	101	ASN
44	HE	309	HIS
45	HF	291	GLN
45	HF	334	GLN
44	HG	85	GLN
44	HG	101	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	HH	348	ASN
44	HI	15	GLN
44	HI	226	ASN
44	HI	256	GLN
44	HI	329	ASN
44	HI	358	GLN
45	HJ	264	HIS
45	HJ	307	HIS
45	HJ	329	GLN
44	HK	101	ASN
44	HK	258	ASN
45	HL	94	GLN
45	HL	245	GLN
45	HL	256	ASN
45	HL	337	ASN
45	HL	375	GLN
44	HM	101	ASN
45	HN	8	GLN
45	HN	48	ASN
45	HN	94	GLN
45	HN	100	ASN
45	HN	414	ASN
44	IA	107	HIS
44	IA	249	ASN
44	IA	342	GLN
45	IB	48	ASN
45	IB	100	ASN
45	IB	134	GLN
45	IB	247	ASN
45	IB	334	GLN
45	IB	335	ASN
45	IB	423	GLN
44	IC	11	GLN
44	IC	88	HIS
45	ID	8	GLN
45	ID	48	ASN
45	ID	100	ASN
45	ID	137	HIS
45	ID	226	ASN
45	ID	256	ASN
44	IE	85	GLN
44	IE	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	IE	101	ASN
45	IF	307	HIS
44	IG	31	GLN
45	IH	48	ASN
45	IH	83	GLN
45	IH	247	ASN
45	IH	279	GLN
45	IH	414	ASN
44	II	216	ASN
44	II	285	GLN
44	II	358	GLN
45	IJ	6	HIS
45	IJ	8	GLN
45	IJ	14	ASN
45	IJ	105	HIS
45	IJ	245	GLN
44	IK	35	GLN
44	IK	226	ASN
44	IK	300	ASN
44	IK	380	ASN
45	IL	6	HIS
45	IL	48	ASN
44	IM	18	ASN
44	IM	85	GLN
44	IM	91	GLN
45	IN	414	ASN
44	JA	11	GLN
44	JA	85	GLN
44	JA	258	ASN
45	JB	8	GLN
45	JB	100	ASN
45	JB	195	ASN
45	JB	227	HIS
45	JB	292	GLN
45	JB	347	ASN
44	JC	11	GLN
44	JC	15	GLN
44	JC	329	ASN
45	JD	6	HIS
45	JD	43	GLN
45	JD	89	ASN
45	JD	94	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	JD	134	GLN
45	JD	347	ASN
45	JD	348	ASN
44	JE	11	GLN
44	JE	35	GLN
44	JE	356	ASN
45	JF	43	GLN
45	JF	347	ASN
44	JG	216	ASN
45	JH	28	HIS
45	JH	43	GLN
45	JH	89	ASN
45	JH	298	ASN
45	JH	347	ASN
44	JI	50	ASN
45	JJ	264	HIS
44	JK	91	GLN
44	JK	228	ASN
45	JL	8	GLN
45	JL	83	GLN
44	JM	88	HIS
44	JM	309	HIS
45	JN	14	ASN
45	JN	298	ASN
44	KA	28	HIS
44	KA	31	GLN
44	KA	35	GLN
44	KA	61	HIS
44	KA	101	ASN
44	KA	406	HIS
45	KB	11	GLN
45	KB	227	HIS
45	KB	280	GLN
45	KB	334	GLN
45	KB	384	GLN
44	KC	50	ASN
44	KC	107	HIS
44	KC	256	GLN
45	KD	37	HIS
45	KD	134	GLN
45	KD	191	GLN
45	KD	247	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	KD	307	HIS
45	KD	414	ASN
44	KE	393	HIS
45	KF	100	ASN
45	KF	247	ASN
45	KF	347	ASN
45	KF	370	ASN
45	KH	8	GLN
45	KH	131	GLN
45	KH	247	ASN
45	KH	292	GLN
45	KH	298	ASN
45	KH	329	GLN
45	KH	334	GLN
45	KH	426	GLN
44	KI	8	HIS
44	KI	31	GLN
44	KI	228	ASN
44	KI	283	HIS
44	KI	356	ASN
45	KJ	8	GLN
45	KJ	43	GLN
45	KJ	227	HIS
45	KJ	247	ASN
45	KJ	347	ASN
45	KJ	384	GLN
45	KJ	414	ASN
44	KK	101	ASN
44	KK	197	HIS
45	KL	37	HIS
45	KL	329	GLN
44	KM	11	GLN
44	KM	102	ASN
44	KM	256	GLN
45	KN	6	HIS
45	KN	14	ASN
45	KN	99	ASN
45	KN	100	ASN
44	LA	300	ASN
45	LB	134	GLN
45	LB	247	ASN
45	LB	256	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	LB	279	GLN
45	LB	280	GLN
44	LC	11	GLN
44	LC	101	ASN
44	LC	107	HIS
44	LC	258	ASN
44	LC	342	GLN
44	LC	356	ASN
45	LD	247	ASN
45	LD	298	ASN
44	LE	11	GLN
44	LE	283	HIS
45	LF	15	GLN
45	LF	131	GLN
45	LF	226	ASN
45	LF	279	GLN
45	LF	334	GLN
45	LF	426	GLN
44	LG	11	GLN
44	LG	31	GLN
44	LG	128	ASN
44	LG	197	HIS
44	LG	356	ASN
45	LH	227	HIS
45	LH	247	ASN
45	LH	279	GLN
44	LI	8	HIS
44	LI	11	GLN
45	LJ	134	GLN
45	LJ	226	ASN
45	LJ	256	ASN
45	LJ	292	GLN
45	LJ	334	GLN
45	LJ	384	GLN
44	LK	11	GLN
44	LK	101	ASN
44	LK	128	ASN
44	LK	258	ASN
44	LK	285	GLN
44	LK	393	HIS
45	LL	6	HIS
45	LL	15	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	LL	134	GLN
45	LL	247	ASN
45	LL	256	ASN
45	LL	384	GLN
45	LL	414	ASN
44	LM	11	GLN
44	LM	216	ASN
44	LM	293	ASN
45	LN	100	ASN
45	LN	134	GLN
45	LN	191	GLN
45	LN	226	ASN
45	LN	279	GLN
44	MA	11	GLN
44	MA	88	HIS
44	MA	91	GLN
44	MA	133	GLN
45	MB	256	ASN
45	MB	280	GLN
45	MB	329	GLN
44	MC	18	ASN
44	MC	31	GLN
44	MC	91	GLN
44	MC	285	GLN
44	MC	300	ASN
44	MC	356	ASN
45	MD	15	GLN
45	MD	134	GLN
45	MD	292	GLN
45	MD	298	ASN
45	MD	396	HIS
44	ME	197	HIS
44	ME	283	HIS
45	MF	280	GLN
45	MF	335	ASN
44	MG	35	GLN
44	MG	285	GLN
44	MG	393	HIS
45	MH	100	ASN
45	MH	256	ASN
44	MI	91	GLN
44	MI	228	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	MI	329	ASN
44	MK	11	GLN
44	MK	88	HIS
44	MK	228	ASN
44	MK	285	GLN
44	MK	356	ASN
45	ML	131	GLN
45	ML	256	ASN
45	ML	329	GLN
44	MM	8	HIS
44	MM	18	ASN
44	MM	91	GLN
44	MM	101	ASN
44	MM	249	ASN
44	MM	285	GLN
44	MM	293	ASN
44	MM	393	HIS
44	MM	406	HIS
45	MN	6	HIS
45	MN	83	GLN
45	MN	105	HIS
45	MN	256	ASN
45	MN	280	GLN
45	MN	298	ASN
45	MN	329	GLN
44	NA	61	HIS
44	NA	88	HIS
44	NA	101	ASN
44	NA	128	ASN
45	NB	6	HIS
45	NB	8	GLN
45	NB	43	GLN
45	NB	105	HIS
45	NB	226	ASN
45	NB	245	GLN
44	NC	15	GLN
44	NC	61	HIS
44	NC	309	HIS
44	NC	356	ASN
44	NC	380	ASN
45	ND	190	HIS
45	ND	226	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	ND	414	ASN
44	NE	11	GLN
44	NE	28	HIS
44	NE	128	ASN
44	NE	216	ASN
44	NE	380	ASN
45	NF	6	HIS
45	NF	8	GLN
45	NF	195	ASN
45	NF	292	GLN
45	NF	298	ASN
44	NG	11	GLN
44	NG	18	ASN
44	NG	128	ASN
44	NG	356	ASN
45	NH	191	GLN
45	NH	247	ASN
45	NH	426	GLN
44	NI	11	GLN
44	NI	85	GLN
44	NI	88	HIS
44	NI	197	HIS
44	NI	256	GLN
44	NI	309	HIS
45	NJ	6	HIS
45	NJ	8	GLN
45	NJ	226	ASN
45	NJ	298	ASN
44	NK	8	HIS
44	NK	228	ASN
44	NK	285	GLN
44	NK	309	HIS
45	NL	6	HIS
45	NL	8	GLN
45	NL	37	HIS
45	NL	83	GLN
45	NL	134	GLN
44	NM	18	ASN
44	NM	91	GLN
45	NN	8	GLN
45	NN	134	GLN
45	NN	226	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	NN	264	HIS
45	NN	396	HIS
45	NN	414	ASN
44	OA	256	GLN
44	OA	285	GLN
44	OA	300	ASN
44	OA	329	ASN
45	OB	105	HIS
45	OB	134	GLN
45	OB	298	ASN
45	OB	332	ASN
44	OC	226	ASN
45	OD	99	ASN
45	OD	134	GLN
45	OD	227	HIS
45	OD	245	GLN
45	OD	298	ASN
45	OD	384	GLN
44	OE	11	GLN
44	OE	88	HIS
44	OE	91	GLN
44	OE	216	ASN
44	OE	249	ASN
44	OE	285	GLN
45	OF	14	ASN
45	OF	256	ASN
45	OF	334	GLN
44	OG	11	GLN
44	OG	91	GLN
44	OG	233	GLN
44	OG	249	ASN
44	OG	342	GLN
44	OG	356	ASN
44	OG	380	ASN
44	OG	406	HIS
45	OH	11	GLN
45	OH	100	ASN
45	OH	247	ASN
45	OH	329	GLN
44	OI	8	HIS
45	OJ	6	HIS
45	OJ	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	OJ	89	ASN
45	OJ	190	HIS
45	OJ	191	GLN
45	OJ	332	ASN
45	OJ	347	ASN
45	OJ	426	GLN
45	OL	89	ASN
45	OL	279	GLN
45	OL	347	ASN
45	OL	396	HIS
44	OM	11	GLN
44	OM	102	ASN
44	OM	216	ASN
45	ON	332	ASN
45	ON	334	GLN
44	PA	8	HIS
44	PA	91	GLN
44	PA	233	GLN
44	PA	329	ASN
45	PB	8	GLN
45	PB	28	HIS
45	PB	43	GLN
45	PB	100	ASN
45	PB	134	GLN
45	PB	307	HIS
45	PB	423	GLN
44	PC	15	GLN
44	PC	102	ASN
45	PD	15	GLN
45	PD	131	GLN
44	PE	11	GLN
44	PG	133	GLN
44	PG	283	HIS
45	PH	256	ASN
45	PH	329	GLN
44	PI	88	HIS
44	PI	91	GLN
44	PI	192	HIS
44	PI	258	ASN
45	PJ	256	ASN
44	PK	11	GLN
44	PK	283	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	PL	247	ASN
45	PL	256	ASN
45	PL	347	ASN
44	PM	91	GLN
45	PN	6	HIS
45	PN	134	GLN
45	PN	347	ASN
45	PN	348	ASN
45	PN	384	GLN
44	QA	8	HIS
44	QA	31	GLN
44	QA	91	GLN
44	QA	393	HIS
45	QB	43	GLN
45	QB	100	ASN
45	QB	256	ASN
45	QB	334	GLN
45	QB	375	GLN
44	QC	31	GLN
44	QC	101	ASN
44	QC	197	HIS
44	QC	226	ASN
44	QC	258	ASN
45	QD	137	HIS
45	QD	247	ASN
45	QD	292	GLN
45	QD	375	GLN
44	QE	88	HIS
44	QE	258	ASN
44	QE	285	GLN
44	QE	358	GLN
45	QF	291	GLN
45	QF	292	GLN
45	QF	298	ASN
44	QG	91	GLN
44	QG	102	ASN
44	QG	258	ASN
45	QH	8	GLN
45	QH	14	ASN
45	QH	131	GLN
45	QH	426	GLN
44	QI	91	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	QI	258	ASN
45	QJ	100	ASN
45	QJ	134	GLN
45	QJ	414	ASN
45	QJ	426	GLN
44	QK	11	GLN
44	QK	31	GLN
44	QK	85	GLN
44	QK	91	GLN
44	QK	128	ASN
44	QK	258	ASN
44	QK	283	HIS
45	QL	11	GLN
45	QL	100	ASN
45	QL	423	GLN
44	QM	88	HIS
44	QM	258	ASN
45	QN	99	ASN
45	QN	134	GLN
45	QN	226	ASN
45	QN	298	ASN
45	QN	396	HIS
44	RA	258	ASN
45	RB	6	HIS
45	RB	100	ASN
45	RB	131	GLN
45	RB	134	GLN
45	RB	247	ASN
45	RB	280	GLN
44	RC	258	ASN
44	RC	285	GLN
44	RC	329	ASN
44	RC	393	HIS
45	RD	8	GLN
45	RD	15	GLN
45	RD	190	HIS
45	RD	375	GLN
44	RE	91	GLN
45	RF	8	GLN
45	RF	134	GLN
45	RF	384	GLN
44	RG	358	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	RH	8	GLN
45	RH	14	ASN
45	RH	256	ASN
45	RH	334	GLN
44	RI	91	GLN
44	RI	258	ASN
44	RI	356	ASN
45	RJ	8	GLN
45	RJ	247	ASN
45	RJ	298	ASN
45	RJ	334	GLN
45	RJ	426	GLN
44	RK	31	GLN
44	RK	91	GLN
44	RK	128	ASN
44	RK	258	ASN
44	RK	356	ASN
45	RL	134	GLN
45	RL	247	ASN
45	RL	264	HIS
45	RL	347	ASN
44	RM	35	GLN
44	RM	283	HIS
44	RM	285	GLN
44	RM	300	ASN
45	RN	100	ASN
45	RN	191	GLN
44	SA	91	GLN
44	SA	258	ASN
44	SA	283	HIS
45	SB	100	ASN
45	SB	134	GLN
45	SB	256	ASN
45	SB	292	GLN
44	SC	61	HIS
45	SD	43	GLN
45	SD	105	HIS
45	SD	334	GLN
45	SD	348	ASN
45	SD	414	ASN
44	SE	91	GLN
44	SE	285	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	SF	6	HIS
45	SF	14	ASN
45	SF	100	ASN
45	SF	396	HIS
45	SH	100	ASN
45	SH	256	ASN
44	SI	85	GLN
44	SI	91	GLN
44	SI	133	GLN
44	SI	228	ASN
45	SJ	100	ASN
45	SJ	134	GLN
45	SJ	245	GLN
45	SJ	291	GLN
44	SK	11	GLN
44	SK	85	GLN
44	SK	216	ASN
45	SL	14	ASN
45	SL	134	GLN
45	SL	191	GLN
45	SL	292	GLN
44	SM	31	GLN
44	SM	249	ASN
44	SM	285	GLN
45	SN	28	HIS
45	SN	131	GLN
45	SN	137	HIS
45	SN	298	ASN
45	SN	384	GLN
44	TA	8	HIS
44	TA	258	ASN
45	TB	100	ASN
45	TB	298	ASN
45	TB	329	GLN
44	TC	31	GLN
44	TC	50	ASN
44	TC	88	HIS
45	TD	329	GLN
44	TE	50	ASN
44	TE	91	GLN
44	TE	101	ASN
44	TE	228	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	TE	258	ASN
44	TE	342	GLN
45	TF	100	ASN
45	TF	256	ASN
45	TF	280	GLN
45	TF	348	ASN
44	TG	228	ASN
44	TG	266	HIS
44	TG	380	ASN
44	TI	61	HIS
44	TI	88	HIS
44	TI	91	GLN
44	TI	101	ASN
44	TI	192	HIS
44	TI	342	GLN
45	TJ	8	GLN
45	TJ	14	ASN
45	TJ	191	GLN
45	TJ	307	HIS
45	TJ	334	GLN
45	TJ	370	ASN
45	TJ	396	HIS
45	TJ	426	GLN
44	TK	11	GLN
44	TK	91	GLN
44	TK	226	ASN
45	TL	8	GLN
45	TL	105	HIS
45	TL	134	GLN
45	TL	334	GLN
44	TM	8	HIS
44	TM	11	GLN
44	TM	61	HIS
44	TM	91	GLN
44	TM	128	ASN
44	TM	216	ASN
45	TN	8	GLN
45	TN	14	ASN
45	TN	134	GLN
45	TN	384	GLN
45	TN	423	GLN
44	UA	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	UA	31	GLN
44	UA	85	GLN
44	UA	91	GLN
44	UA	258	ASN
44	UA	283	HIS
45	UB	8	GLN
45	UB	100	ASN
45	UB	131	GLN
45	UB	256	ASN
45	UB	279	GLN
45	UB	280	GLN
45	UB	292	GLN
45	UB	334	GLN
45	UB	348	ASN
44	UC	31	GLN
45	UD	8	GLN
45	UD	52	ASN
45	UD	100	ASN
45	UD	190	HIS
45	UD	256	ASN
45	UD	291	GLN
45	UD	307	HIS
45	UD	375	GLN
45	UD	396	HIS
44	UE	8	HIS
44	UE	18	ASN
44	UE	35	GLN
44	UE	91	GLN
44	UE	258	ASN
44	UE	342	GLN
45	UF	8	GLN
45	UF	14	ASN
45	UF	131	GLN
45	UF	256	ASN
45	UF	348	ASN
44	UG	11	GLN
44	UG	101	ASN
44	UG	258	ASN
44	UG	285	GLN
44	UI	258	ASN
44	UI	342	GLN
44	UI	406	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	UJ	14	ASN
45	UJ	307	HIS
45	UJ	329	GLN
45	UJ	335	ASN
44	UK	18	ASN
44	UK	256	GLN
44	UK	258	ASN
44	UK	342	GLN
45	UL	100	ASN
45	UL	247	ASN
45	UL	334	GLN
45	UL	347	ASN
44	UM	11	GLN
44	UM	35	GLN
44	UM	91	GLN
44	UM	107	HIS
44	UM	226	ASN
45	UN	6	HIS
45	UN	100	ASN
45	UN	134	GLN
45	UN	256	ASN
44	VA	258	ASN
44	VA	300	ASN
45	VB	8	GLN
45	VB	14	ASN
45	VB	15	GLN
45	VB	100	ASN
45	VB	247	ASN
45	VB	348	ASN
44	VC	91	GLN
44	VC	283	HIS
44	VC	285	GLN
45	VD	11	GLN
45	VD	134	GLN
45	VD	247	ASN
45	VD	256	ASN
45	VD	280	GLN
45	VD	334	GLN
45	VD	423	GLN
44	VE	91	GLN
44	VE	128	ASN
45	VF	8	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	VF	14	ASN
45	VF	134	GLN
45	VF	307	HIS
45	VF	426	GLN
44	VG	91	GLN
44	VG	102	ASN
45	VH	14	ASN
45	VH	100	ASN
45	VH	247	ASN
44	VI	283	HIS
44	VI	285	GLN
44	VI	342	GLN
45	VJ	264	HIS
45	VJ	298	ASN
45	VJ	414	ASN
44	VK	61	HIS
44	VK	102	ASN
45	VL	14	ASN
45	VL	247	ASN
45	VL	256	ASN
45	VL	384	GLN
44	VM	8	HIS
44	VM	11	GLN
44	VM	91	GLN
44	VM	192	HIS
44	VM	258	ASN
44	VM	285	GLN
45	VN	99	ASN
45	VN	264	HIS
45	VN	384	GLN
45	VN	423	GLN
44	WA	8	HIS
44	WA	11	GLN
44	WA	31	GLN
44	WA	91	GLN
44	WA	283	HIS
44	WA	285	GLN
45	WB	14	ASN
45	WB	134	GLN
45	WB	423	GLN
44	WC	31	GLN
44	WC	128	ASN

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Mol	Chain	Res	Type
44	WC	342	GLN
45	WD	37	HIS
45	WD	256	ASN
45	WD	291	GLN
45	WD	292	GLN
44	WG	15	GLN
44	WG	293	ASN
44	WG	342	GLN
45	WH	247	ASN
45	WH	256	ASN
45	WH	384	GLN
44	WI	11	GLN
44	WI	233	GLN
44	WI	258	ASN
45	WJ	256	ASN
45	WJ	291	GLN
44	WK	258	ASN
44	WK	283	HIS
44	WK	285	GLN
45	WL	195	ASN
45	WL	247	ASN
44	WM	91	GLN
44	WM	101	ASN
44	WM	285	GLN
45	WN	37	HIS
45	WN	131	GLN
45	WN	190	HIS
45	WN	204	ASN
45	WN	226	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry

Of 483 ligands modelled in this entry, 161 are monoatomic - leaving 322 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
46	GTP	MI	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.69	7 (21%)
48	GDP	IN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	MM	501	47	26,34,34	1.24	2 (7%)	32,54,54	1.66	7 (21%)
46	GTP	DI	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.69	7 (21%)
46	GTP	IK	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	PD	502	-	24,30,30	0.92	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	PN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	EH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	UL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	PE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.60	7 (21%)
46	GTP	CE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.58	7 (21%)
46	GTP	BG	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.76	7 (21%)
46	GTP	DG	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.70	7 (21%)
48	GDP	OJ	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	DL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.41	4 (13%)
48	GDP	EB	501	-	24,30,30	0.91	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	GG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	MH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.33	4 (13%)
48	GDP	RN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	AH	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	EI	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	LH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	WC	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.70	7 (21%)
48	GDP	NH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.43	4 (13%)
46	GTP	HI	501	47	26,34,34	1.14	2 (7%)	32,54,54	1.72	6 (18%)
46	GTP	GE	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.65	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
46	GTP	LB	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	VJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	VF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	RG	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	BM	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.54	7 (21%)
46	GTP	GM	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.57	7 (21%)
46	GTP	UG	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.67	6 (18%)
46	GTP	AA	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	NF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	4 (13%)
46	GTP	DB	502	47	26,34,34	1.19	2 (7%)	32,54,54	1.53	7 (21%)
46	GTP	CK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.69	7 (21%)
48	GDP	CN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	QE	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.68	7 (21%)
46	GTP	BI	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.56	7 (21%)
46	GTP	PG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.65	7 (21%)
46	GTP	GL	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.53	7 (21%)
46	GTP	BA	501	-	26,34,34	1.18	2 (7%)	32,54,54	1.57	7 (21%)
48	GDP	NL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	WD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	KG	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.64	7 (21%)
46	GTP	SI	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.52	7 (21%)
48	GDP	CL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	SG	501	47	26,34,34	1.24	1 (3%)	32,54,54	1.69	7 (21%)
46	GTP	UC	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.54	7 (21%)
46	GTP	FK	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.64	7 (21%)
48	GDP	BN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	JI	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	QK	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.79	7 (21%)
48	GDP	TL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	OL	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.42	4 (13%)
48	GDP	BF	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.37	4 (13%)
48	GDP	DD	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	BC	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.77	7 (21%)
46	GTP	TC	501	47	26,34,34	1.21	1 (3%)	32,54,54	1.60	7 (21%)
48	GDP	QD	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
48	GDP	EF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	SN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
46	GTP	OL	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.62	8 (25%)
46	GTP	NE	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	OB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	IB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
48	GDP	TB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	BD	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	WB	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	JJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
48	GDP	PJ	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	KJ	501	47	26,34,34	1.23	1 (3%)	32,54,54	1.61	7 (21%)
46	GTP	AI	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.73	7 (21%)
46	GTP	WI	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	ED	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	JG	501	47	26,34,34	1.21	1 (3%)	32,54,54	1.60	7 (21%)
46	GTP	QM	501	47	26,34,34	1.16	2 (7%)	32,54,54	1.50	7 (21%)
46	GTP	WE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.72	7 (21%)
48	GDP	DH	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.40	4 (13%)
46	GTP	NI	501	47	26,34,34	1.23	1 (3%)	32,54,54	1.59	7 (21%)
48	GDP	PF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	FF	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.38	4 (13%)
46	GTP	RM	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	LL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	RK	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	HM	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.55	7 (21%)
48	GDP	EL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	FJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
48	GDP	WL	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	MK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.65	7 (21%)
48	GDP	JF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	ML	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	VG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.61	7 (21%)
46	GTP	HK	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.75	7 (21%)
48	GDP	AL	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
46	GTP	SA	501	47	26,34,34	1.15	2 (7%)	32,54,54	1.53	7 (21%)
48	GDP	MN	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	SH	501	-	24,30,30	0.91	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	SL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	TH	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	PM	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.58	7 (21%)
46	GTP	FG	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	AF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	LK	501	-	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	RB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	UE	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.58	7 (21%)
48	GDP	MJ	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	LD	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.45	4 (13%)
46	GTP	FE	501	47	26,34,34	1.23	1 (3%)	32,54,54	1.54	7 (21%)
46	GTP	VM	501	47	26,34,34	1.15	2 (7%)	32,54,54	1.54	7 (21%)
46	GTP	FI	501	47	26,34,34	1.24	1 (3%)	32,54,54	1.66	7 (21%)
46	GTP	QI	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	QB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
48	GDP	QL	501	-	24,30,30	0.91	1 (4%)	30,47,47	1.30	4 (13%)
46	GTP	EG	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.67	7 (21%)
46	GTP	SC	501	47	26,34,34	1.17	1 (3%)	32,54,54	1.58	7 (21%)
48	GDP	TD	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.32	5 (16%)
46	GTP	AE	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.55	7 (21%)
48	GDP	UD	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	UA	501	47	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
48	GDP	WN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	KD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	CB	501	-	24,30,30	1.11	2 (8%)	30,47,47	1.56	5 (16%)
48	GDP	JH	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.42	4 (13%)
48	GDP	IF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	RC	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	BJ	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	TK	501	47	26,34,34	1.18	1 (3%)	32,54,54	1.59	7 (21%)
46	GTP	DA	501	47	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
46	GTP	GI	501	47	26,34,34	1.24	2 (7%)	32,54,54	1.72	7 (21%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
46	GTP	VC	501	47	26,34,34	1.19	1 (3%)	32,54,54	1.58	7 (21%)
46	GTP	ID	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.58	7 (21%)
46	GTP	PK	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.65	7 (21%)
46	GTP	AC	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.73	7 (21%)
46	GTP	FM	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.62	7 (21%)
46	GTP	SK	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	JC	501	-	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	TE	501	47	26,34,34	1.25	2 (7%)	32,54,54	1.72	7 (21%)
46	GTP	WG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.51	7 (21%)
46	GTP	WK	501	47	26,34,34	1.18	1 (3%)	32,54,54	1.53	7 (21%)
46	GTP	QC	501	-	26,34,34	1.19	2 (7%)	32,54,54	1.67	7 (21%)
48	GDP	VH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	RE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	HB	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	SB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	EJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	AG	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.61	7 (21%)
48	GDP	RJ	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	GD	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	KN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.37	4 (13%)
48	GDP	FN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
48	GDP	MF	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	QJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.29	4 (13%)
48	GDP	JD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.40	4 (13%)
46	GTP	RI	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.73	7 (21%)
48	GDP	PB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
48	GDP	HD	501	-	24,30,30	1.03	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	EN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	OH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	LI	501	47	26,34,34	1.19	1 (3%)	32,54,54	1.67	7 (21%)
48	GDP	RL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	GN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
46	GTP	SM	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.57	7 (21%)
48	GDP	RH	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	UB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
48	GDP	MD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	FD	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	VE	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.57	7 (21%)
48	GDP	KL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	OA	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	HN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.26	4 (13%)
46	GTP	ME	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.72	7 (21%)
48	GDP	JB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	WM	501	47	26,34,34	1.16	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	ID	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	FA	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.70	7 (21%)
46	GTP	BK	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.67	6 (18%)
46	GTP	UM	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.73	7 (21%)
46	GTP	BE	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.66	6 (18%)
48	GDP	CH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	JL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	LE	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.64	7 (21%)
48	GDP	HL	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.40	4 (13%)
46	GTP	II	501	47	26,34,34	1.18	1 (3%)	32,54,54	1.66	7 (21%)
46	GTP	OC	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.71	7 (21%)
48	GDP	NN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	OI	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.66	7 (21%)
48	GDP	PH	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	FH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	FL	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	AJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	DB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	AB	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	EK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.78	7 (21%)
48	GDP	NB	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.34	5 (16%)
48	GDP	RF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	KF	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	UI	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.48	6 (18%)
48	GDP	LN	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	GF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
48	GDP	BL	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	JE	501	47	26,34,34	1.23	2 (7%)	32,54,54	1.77	7 (21%)
46	GTP	TA	501	47	26,34,34	1.16	2 (7%)	32,54,54	1.52	7 (21%)
46	GTP	PI	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.65	7 (21%)
46	GTP	CI	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.67	7 (21%)
46	GTP	EA	501	47	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
46	GTP	QG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.47	7 (21%)
48	GDP	CF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	BB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
48	GDP	GD	503	-	24,30,30	0.96	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	WH	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	OG	501	47	26,34,34	1.20	1 (3%)	32,54,54	1.67	7 (21%)
48	GDP	MB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
48	GDP	QN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	FB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
48	GDP	CJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	VB	502	-	24,30,30	1.04	2 (8%)	30,47,47	1.34	4 (13%)
46	GTP	CA	501	47	26,34,34	1.12	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	VL	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	SJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	TM	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.68	7 (21%)
46	GTP	UK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.66	7 (21%)
46	GTP	EC	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.69	7 (21%)
46	GTP	KK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.73	7 (21%)
48	GDP	KJ	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	DE	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.55	7 (21%)
48	GDP	BH	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
48	GDP	LB	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
46	GTP	OE	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.64	7 (21%)
48	GDP	RD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	JA	501	47	26,34,34	1.17	2 (7%)	32,54,54	1.84	8 (25%)
48	GDP	UF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.37	4 (13%)
48	GDP	WF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.40	4 (13%)
46	GTP	HG	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	JN	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.34	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
48	GDP	AD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	KH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	EE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.71	7 (21%)
46	GTP	TG	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.60	7 (21%)
46	GTP	MA	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.71	7 (21%)
46	GTP	GB	501	47	26,34,34	1.19	1 (3%)	32,54,54	1.57	7 (21%)
48	GDP	PL	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	4 (13%)
48	GDP	DJ	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.41	4 (13%)
48	GDP	ON	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	NC	501	47	26,34,34	1.22	1 (3%)	32,54,54	1.64	7 (21%)
48	GDP	OF	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.32	4 (13%)
48	GDP	AN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	UN	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	HA	501	-	26,34,34	1.19	2 (7%)	32,54,54	1.54	7 (21%)
46	GTP	LC	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	HH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	AM	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.71	7 (21%)
46	GTP	SE	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.71	7 (21%)
46	GTP	NM	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.55	7 (21%)
46	GTP	IA	501	47	26,34,34	1.19	1 (3%)	32,54,54	1.62	7 (21%)
46	GTP	FC	501	47	26,34,34	1.24	2 (7%)	32,54,54	1.73	7 (21%)
48	GDP	DF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.44	4 (13%)
46	GTP	IM	501	-	26,34,34	1.18	2 (7%)	32,54,54	1.48	7 (21%)
46	GTP	IE	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	VN	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	HC	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.65	7 (21%)
48	GDP	HJ	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.27	4 (13%)
46	GTP	HE	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	CM	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.65	7 (21%)
46	GTP	VK	501	47	26,34,34	1.16	2 (7%)	32,54,54	1.56	7 (21%)
48	GDP	UH	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	GH	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	4 (13%)
46	GTP	LG	501	47	26,34,34	1.22	2 (7%)	32,54,54	1.64	7 (21%)
46	GTP	MC	501	47	26,34,34	1.21	1 (3%)	32,54,54	1.64	7 (21%)
48	GDP	GB	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
46	GTP	RA	501	47	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
46	GTP	JM	501	47	26,34,34	1.15	2 (7%)	32,54,54	1.69	7 (21%)
46	GTP	NK	501	47	26,34,34	1.21	1 (3%)	32,54,54	1.62	7 (21%)
46	GTP	KA	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.65	7 (21%)
48	GDP	UJ	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	LM	501	47	26,34,34	1.24	2 (7%)	32,54,54	1.58	7 (21%)
48	GDP	LF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	DM	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.75	7 (21%)
46	GTP	NG	501	47	26,34,34	1.22	1 (3%)	32,54,54	1.66	7 (21%)
46	GTP	CG	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.62	7 (21%)
48	GDP	SF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
48	GDP	HF	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.34	4 (13%)
48	GDP	SD	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	NJ	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	CC	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.57	7 (21%)
48	GDP	QH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	NA	501	47	26,34,34	1.20	1 (3%)	32,54,54	1.53	7 (21%)
46	GTP	KC	501	47	26,34,34	1.20	1 (3%)	32,54,54	1.69	7 (21%)
46	GTP	VI	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
46	GTP	MG	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.72	7 (21%)
46	GTP	AK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.60	7 (21%)
48	GDP	WJ	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.36	4 (13%)
48	GDP	CD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	DK	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.65	7 (21%)
46	GTP	KE	501	47	26,34,34	1.22	1 (3%)	32,54,54	1.77	7 (21%)
48	GDP	GL	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
46	GTP	VA	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.56	7 (21%)
46	GTP	QA	501	47	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
48	GDP	IH	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
48	GDP	TF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
46	GTP	PC	501	47	26,34,34	1.19	1 (3%)	32,54,54	1.66	7 (21%)
46	GTP	EM	501	47	26,34,34	1.16	2 (7%)	32,54,54	1.65	7 (21%)
48	GDP	IL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
46	GTP	IG	501	47	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
48	GDP	TN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
48	GDP	GJ	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.37	4 (13%)
46	GTP	KM	501	47	26,34,34	1.19	2 (7%)	32,54,54	1.70	6 (18%)
48	GDP	IJ	502	-	24,30,30	0.91	1 (4%)	30,47,47	1.40	4 (13%)
48	GDP	ND	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.35	4 (13%)
46	GTP	WA	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	TJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
48	GDP	QF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
46	GTP	OM	501	47	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
48	GDP	KB	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)
48	GDP	VD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
48	GDP	DN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.34	4 (13%)
46	GTP	JK	501	47	26,34,34	1.20	2 (7%)	32,54,54	1.56	7 (21%)
46	GTP	TI	501	47	26,34,34	1.21	2 (7%)	32,54,54	1.55	7 (21%)
48	GDP	OD	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
48	GDP	LJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.33	4 (13%)
46	GTP	PA	501	47	26,34,34	1.13	2 (7%)	32,54,54	1.67	7 (21%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
46	GTP	MI	501	47	-	6/18/38/38	0/3/3/3
48	GDP	IN	501	-	-	3/12/32/32	0/3/3/3
46	GTP	MM	501	47	-	8/18/38/38	0/3/3/3
46	GTP	DI	501	47	-	6/18/38/38	0/3/3/3
46	GTP	IK	501	47	-	8/18/38/38	0/3/3/3
48	GDP	PD	502	-	-	1/12/32/32	0/3/3/3
48	GDP	PN	501	-	-	0/12/32/32	0/3/3/3
48	GDP	EH	501	-	-	2/12/32/32	0/3/3/3
48	GDP	UL	501	-	-	1/12/32/32	0/3/3/3
46	GTP	PE	501	47	-	6/18/38/38	0/3/3/3
46	GTP	CE	501	47	-	4/18/38/38	0/3/3/3
46	GTP	BG	501	47	-	3/18/38/38	0/3/3/3
46	GTP	DG	501	47	-	2/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	OJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	DL	501	-	-	3/12/32/32	0/3/3/3
48	GDP	EB	501	-	-	0/12/32/32	0/3/3/3
46	GTP	GG	501	47	-	1/18/38/38	0/3/3/3
48	GDP	MH	501	-	-	1/12/32/32	0/3/3/3
48	GDP	RN	501	-	-	0/12/32/32	0/3/3/3
48	GDP	AH	501	-	-	0/12/32/32	0/3/3/3
46	GTP	EI	501	47	-	7/18/38/38	0/3/3/3
48	GDP	LH	501	-	-	0/12/32/32	0/3/3/3
46	GTP	WC	501	47	-	5/18/38/38	0/3/3/3
48	GDP	NH	501	-	-	3/12/32/32	0/3/3/3
46	GTP	HI	501	47	-	7/18/38/38	0/3/3/3
46	GTP	GE	501	47	-	4/18/38/38	0/3/3/3
46	GTP	LB	501	47	-	6/18/38/38	0/3/3/3
48	GDP	VJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	VF	501	-	-	2/12/32/32	0/3/3/3
46	GTP	RG	501	47	-	6/18/38/38	0/3/3/3
46	GTP	BM	501	47	-	5/18/38/38	0/3/3/3
46	GTP	GM	501	47	-	7/18/38/38	0/3/3/3
46	GTP	UG	501	47	-	7/18/38/38	0/3/3/3
46	GTP	AA	501	47	-	7/18/38/38	0/3/3/3
48	GDP	NF	501	-	-	2/12/32/32	0/3/3/3
46	GTP	DB	502	47	-	5/18/38/38	0/3/3/3
46	GTP	CK	501	47	-	6/18/38/38	0/3/3/3
48	GDP	CN	501	-	-	1/12/32/32	0/3/3/3
46	GTP	QE	501	47	-	7/18/38/38	0/3/3/3
46	GTP	BI	501	47	-	4/18/38/38	0/3/3/3
46	GTP	PG	501	47	-	6/18/38/38	0/3/3/3
46	GTP	GL	501	47	-	4/18/38/38	0/3/3/3
46	GTP	BA	501	-	-	6/18/38/38	0/3/3/3
48	GDP	NL	501	-	-	3/12/32/32	0/3/3/3
48	GDP	WD	501	-	-	1/12/32/32	0/3/3/3
46	GTP	KG	501	47	-	4/18/38/38	0/3/3/3
46	GTP	SI	501	47	-	8/18/38/38	0/3/3/3
48	GDP	CL	501	-	-	0/12/32/32	0/3/3/3
46	GTP	SG	501	47	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
46	GTP	UC	501	47	-	7/18/38/38	0/3/3/3
46	GTP	FK	501	47	-	5/18/38/38	0/3/3/3
48	GDP	BN	501	-	-	1/12/32/32	0/3/3/3
46	GTP	JI	501	47	-	8/18/38/38	0/3/3/3
46	GTP	QK	501	47	-	6/18/38/38	0/3/3/3
48	GDP	TL	501	-	-	0/12/32/32	0/3/3/3
48	GDP	OL	502	-	-	1/12/32/32	0/3/3/3
48	GDP	BF	502	-	-	2/12/32/32	0/3/3/3
48	GDP	DD	501	-	-	3/12/32/32	0/3/3/3
46	GTP	BC	501	47	-	4/18/38/38	0/3/3/3
46	GTP	TC	501	47	-	4/18/38/38	0/3/3/3
48	GDP	QD	501	-	-	1/12/32/32	0/3/3/3
48	GDP	EF	501	-	-	0/12/32/32	0/3/3/3
48	GDP	SN	501	-	-	1/12/32/32	0/3/3/3
46	GTP	OL	501	47	-	3/18/38/38	0/3/3/3
46	GTP	NE	501	47	-	6/18/38/38	0/3/3/3
48	GDP	OB	501	-	-	2/12/32/32	0/3/3/3
48	GDP	IB	501	-	-	0/12/32/32	0/3/3/3
48	GDP	TB	501	-	-	0/12/32/32	0/3/3/3
48	GDP	BD	502	-	-	0/12/32/32	0/3/3/3
48	GDP	WB	501	-	-	2/12/32/32	0/3/3/3
48	GDP	JJ	501	-	-	0/12/32/32	0/3/3/3
48	GDP	PJ	501	-	-	2/12/32/32	0/3/3/3
46	GTP	KJ	501	47	-	7/18/38/38	0/3/3/3
46	GTP	AI	501	47	-	5/18/38/38	0/3/3/3
46	GTP	WI	501	47	-	9/18/38/38	0/3/3/3
48	GDP	ED	501	-	-	2/12/32/32	0/3/3/3
46	GTP	JG	501	47	-	7/18/38/38	0/3/3/3
46	GTP	QM	501	47	-	4/18/38/38	0/3/3/3
46	GTP	WE	501	47	-	6/18/38/38	0/3/3/3
48	GDP	DH	501	-	-	2/12/32/32	0/3/3/3
46	GTP	NI	501	47	-	4/18/38/38	0/3/3/3
48	GDP	PF	501	-	-	1/12/32/32	0/3/3/3
48	GDP	FF	502	-	-	2/12/32/32	0/3/3/3
46	GTP	RM	501	47	-	4/18/38/38	0/3/3/3
48	GDP	LL	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
46	GTP	RK	501	47	-	7/18/38/38	0/3/3/3
46	GTP	HM	501	47	-	3/18/38/38	0/3/3/3
48	GDP	EL	501	-	-	0/12/32/32	0/3/3/3
48	GDP	FJ	501	-	-	0/12/32/32	0/3/3/3
48	GDP	WL	501	-	-	0/12/32/32	0/3/3/3
46	GTP	MK	501	47	-	4/18/38/38	0/3/3/3
48	GDP	JF	501	-	-	0/12/32/32	0/3/3/3
48	GDP	ML	501	-	-	3/12/32/32	0/3/3/3
46	GTP	VG	501	47	-	3/18/38/38	0/3/3/3
46	GTP	HK	501	47	-	1/18/38/38	0/3/3/3
48	GDP	AL	502	-	-	0/12/32/32	0/3/3/3
46	GTP	SA	501	47	-	8/18/38/38	0/3/3/3
48	GDP	MN	502	-	-	1/12/32/32	0/3/3/3
48	GDP	SH	501	-	-	0/12/32/32	0/3/3/3
48	GDP	SL	501	-	-	1/12/32/32	0/3/3/3
48	GDP	TH	501	-	-	1/12/32/32	0/3/3/3
46	GTP	PM	501	47	-	7/18/38/38	0/3/3/3
46	GTP	FG	501	47	-	8/18/38/38	0/3/3/3
48	GDP	AF	501	-	-	1/12/32/32	0/3/3/3
46	GTP	LK	501	-	-	6/18/38/38	0/3/3/3
48	GDP	RB	501	-	-	0/12/32/32	0/3/3/3
46	GTP	UE	501	47	-	5/18/38/38	0/3/3/3
48	GDP	MJ	502	-	-	2/12/32/32	0/3/3/3
48	GDP	LD	501	-	-	3/12/32/32	0/3/3/3
46	GTP	FE	501	47	-	3/18/38/38	0/3/3/3
46	GTP	VM	501	47	-	7/18/38/38	0/3/3/3
46	GTP	FI	501	47	-	5/18/38/38	0/3/3/3
46	GTP	QI	501	47	-	6/18/38/38	0/3/3/3
48	GDP	QB	501	-	-	0/12/32/32	0/3/3/3
48	GDP	QL	501	-	-	0/12/32/32	0/3/3/3
46	GTP	EG	501	47	-	8/18/38/38	0/3/3/3
46	GTP	SC	501	47	-	4/18/38/38	0/3/3/3
48	GDP	TD	501	-	-	0/12/32/32	0/3/3/3
46	GTP	AE	501	47	-	7/18/38/38	0/3/3/3
48	GDP	UD	501	-	-	0/12/32/32	0/3/3/3
46	GTP	UA	501	47	-	3/18/38/38	0/3/3/3
48	GDP	WN	501	-	-	1/12/32/32	0/3/3/3
48	GDP	KD	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	CB	501	-	-	6/12/32/32	0/3/3/3
48	GDP	JH	501	-	-	2/12/32/32	0/3/3/3
48	GDP	IF	501	-	-	1/12/32/32	0/3/3/3
46	GTP	RC	501	47	-	3/18/38/38	0/3/3/3
48	GDP	BJ	502	-	-	1/12/32/32	0/3/3/3
46	GTP	TK	501	47	-	8/18/38/38	0/3/3/3
46	GTP	DA	501	47	-	5/18/38/38	0/3/3/3
46	GTP	GI	501	47	-	8/18/38/38	0/3/3/3
46	GTP	VC	501	47	-	4/18/38/38	0/3/3/3
46	GTP	ID	501	47	-	8/18/38/38	0/3/3/3
46	GTP	PK	501	47	-	4/18/38/38	0/3/3/3
46	GTP	AC	501	47	-	2/18/38/38	0/3/3/3
46	GTP	FM	501	47	-	3/18/38/38	0/3/3/3
46	GTP	SK	501	47	-	4/18/38/38	0/3/3/3
46	GTP	JC	501	-	-	6/18/38/38	0/3/3/3
46	GTP	TE	501	47	-	5/18/38/38	0/3/3/3
46	GTP	WG	501	47	-	6/18/38/38	0/3/3/3
46	GTP	WK	501	47	-	5/18/38/38	0/3/3/3
46	GTP	QC	501	-	-	6/18/38/38	0/3/3/3
48	GDP	VH	501	-	-	1/12/32/32	0/3/3/3
46	GTP	RE	501	47	-	6/18/38/38	0/3/3/3
48	GDP	HB	501	-	-	2/12/32/32	0/3/3/3
48	GDP	SB	501	-	-	1/12/32/32	0/3/3/3
48	GDP	EJ	501	-	-	2/12/32/32	0/3/3/3
46	GTP	AG	501	47	-	4/18/38/38	0/3/3/3
48	GDP	RJ	501	-	-	1/12/32/32	0/3/3/3
46	GTP	GD	501	47	-	4/18/38/38	0/3/3/3
48	GDP	KN	501	-	-	1/12/32/32	0/3/3/3
48	GDP	FN	501	-	-	2/12/32/32	0/3/3/3
48	GDP	MF	502	-	-	3/12/32/32	0/3/3/3
48	GDP	QJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	JD	501	-	-	4/12/32/32	0/3/3/3
46	GTP	RI	501	47	-	2/18/38/38	0/3/3/3
48	GDP	PB	501	-	-	1/12/32/32	0/3/3/3
48	GDP	HD	501	-	-	0/12/32/32	0/3/3/3
48	GDP	EN	501	-	-	3/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	OH	501	-	-	1/12/32/32	0/3/3/3
46	GTP	LI	501	47	-	2/18/38/38	0/3/3/3
48	GDP	RL	501	-	-	1/12/32/32	0/3/3/3
48	GDP	GN	501	-	-	0/12/32/32	0/3/3/3
46	GTP	SM	501	47	-	8/18/38/38	0/3/3/3
48	GDP	RH	501	-	-	1/12/32/32	0/3/3/3
48	GDP	UB	501	-	-	3/12/32/32	0/3/3/3
48	GDP	MD	501	-	-	1/12/32/32	0/3/3/3
48	GDP	FD	502	-	-	1/12/32/32	0/3/3/3
46	GTP	VE	501	47	-	6/18/38/38	0/3/3/3
48	GDP	KL	501	-	-	1/12/32/32	0/3/3/3
46	GTP	OA	501	47	-	4/18/38/38	0/3/3/3
48	GDP	HN	501	-	-	2/12/32/32	0/3/3/3
46	GTP	ME	501	47	-	3/18/38/38	0/3/3/3
48	GDP	JB	501	-	-	2/12/32/32	0/3/3/3
46	GTP	WM	501	47	-	4/18/38/38	0/3/3/3
48	GDP	ID	502	-	-	1/12/32/32	0/3/3/3
46	GTP	FA	501	47	-	1/18/38/38	0/3/3/3
46	GTP	BK	501	47	-	5/18/38/38	0/3/3/3
46	GTP	UM	501	47	-	4/18/38/38	0/3/3/3
46	GTP	BE	501	47	-	7/18/38/38	0/3/3/3
48	GDP	CH	501	-	-	2/12/32/32	0/3/3/3
48	GDP	JL	501	-	-	2/12/32/32	0/3/3/3
46	GTP	LE	501	47	-	7/18/38/38	0/3/3/3
48	GDP	HL	502	-	-	2/12/32/32	0/3/3/3
46	GTP	II	501	47	-	7/18/38/38	0/3/3/3
46	GTP	OC	501	47	-	5/18/38/38	0/3/3/3
48	GDP	NN	501	-	-	3/12/32/32	0/3/3/3
46	GTP	OI	501	47	-	3/18/38/38	0/3/3/3
48	GDP	PH	501	-	-	0/12/32/32	0/3/3/3
48	GDP	FH	501	-	-	2/12/32/32	0/3/3/3
48	GDP	FL	501	-	-	2/12/32/32	0/3/3/3
48	GDP	AJ	501	-	-	0/12/32/32	0/3/3/3
48	GDP	DB	501	-	-	1/12/32/32	0/3/3/3
48	GDP	AB	502	-	-	1/12/32/32	0/3/3/3
46	GTP	EK	501	47	-	2/18/38/38	0/3/3/3
48	GDP	NB	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	RF	501	-	-	3/12/32/32	0/3/3/3
48	GDP	KF	502	-	-	1/12/32/32	0/3/3/3
46	GTP	UI	501	47	-	5/18/38/38	0/3/3/3
48	GDP	LN	502	-	-	2/12/32/32	0/3/3/3
48	GDP	GF	501	-	-	1/12/32/32	0/3/3/3
48	GDP	BL	502	-	-	3/12/32/32	0/3/3/3
46	GTP	JE	501	47	-	1/18/38/38	0/3/3/3
46	GTP	TA	501	47	-	8/18/38/38	0/3/3/3
46	GTP	PI	501	47	-	7/18/38/38	0/3/3/3
46	GTP	CI	501	47	-	6/18/38/38	0/3/3/3
46	GTP	EA	501	47	-	4/18/38/38	0/3/3/3
46	GTP	QG	501	47	-	6/18/38/38	0/3/3/3
48	GDP	CF	501	-	-	1/12/32/32	0/3/3/3
48	GDP	BB	501	-	-	0/12/32/32	0/3/3/3
48	GDP	GD	503	-	-	2/12/32/32	0/3/3/3
48	GDP	WH	501	-	-	0/12/32/32	0/3/3/3
46	GTP	OG	501	47	-	3/18/38/38	0/3/3/3
48	GDP	MB	501	-	-	6/12/32/32	0/3/3/3
48	GDP	QN	501	-	-	0/12/32/32	0/3/3/3
48	GDP	FB	501	-	-	2/12/32/32	0/3/3/3
48	GDP	CJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	VB	502	-	-	1/12/32/32	0/3/3/3
46	GTP	CA	501	47	-	2/18/38/38	0/3/3/3
48	GDP	VL	501	-	-	2/12/32/32	0/3/3/3
48	GDP	SJ	501	-	-	2/12/32/32	0/3/3/3
46	GTP	TM	501	47	-	6/18/38/38	0/3/3/3
46	GTP	UK	501	47	-	6/18/38/38	0/3/3/3
46	GTP	EC	501	47	-	5/18/38/38	0/3/3/3
46	GTP	KK	501	47	-	3/18/38/38	0/3/3/3
48	GDP	KJ	502	-	-	1/12/32/32	0/3/3/3
46	GTP	DE	501	47	-	7/18/38/38	0/3/3/3
48	GDP	BH	502	-	-	1/12/32/32	0/3/3/3
48	GDP	LB	502	-	-	1/12/32/32	0/3/3/3
46	GTP	OE	501	47	-	3/18/38/38	0/3/3/3
48	GDP	RD	501	-	-	0/12/32/32	0/3/3/3
46	GTP	JA	501	47	-	1/18/38/38	0/3/3/3
48	GDP	UF	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	WF	501	-	-	0/12/32/32	0/3/3/3
46	GTP	HG	501	47	-	7/18/38/38	0/3/3/3
48	GDP	JN	501	-	-	3/12/32/32	0/3/3/3
48	GDP	AD	501	-	-	0/12/32/32	0/3/3/3
48	GDP	KH	501	-	-	0/12/32/32	0/3/3/3
46	GTP	EE	501	47	-	4/18/38/38	0/3/3/3
46	GTP	TG	501	47	-	6/18/38/38	0/3/3/3
46	GTP	MA	501	47	-	5/18/38/38	0/3/3/3
46	GTP	GB	501	47	-	4/18/38/38	0/3/3/3
48	GDP	PL	501	-	-	2/12/32/32	0/3/3/3
48	GDP	DJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	ON	501	-	-	1/12/32/32	0/3/3/3
46	GTP	NC	501	47	-	3/18/38/38	0/3/3/3
48	GDP	OF	501	-	-	1/12/32/32	0/3/3/3
48	GDP	AN	501	-	-	1/12/32/32	0/3/3/3
48	GDP	UN	501	-	-	0/12/32/32	0/3/3/3
46	GTP	HA	501	-	-	9/18/38/38	0/3/3/3
46	GTP	LC	501	47	-	2/18/38/38	0/3/3/3
48	GDP	HH	501	-	-	1/12/32/32	0/3/3/3
46	GTP	AM	501	47	-	7/18/38/38	0/3/3/3
46	GTP	SE	501	47	-	6/18/38/38	0/3/3/3
46	GTP	NM	501	47	-	4/18/38/38	0/3/3/3
46	GTP	IA	501	47	-	5/18/38/38	0/3/3/3
46	GTP	FC	501	47	-	5/18/38/38	0/3/3/3
48	GDP	DF	501	-	-	2/12/32/32	0/3/3/3
46	GTP	IM	501	-	-	5/18/38/38	0/3/3/3
46	GTP	IE	501	47	-	8/18/38/38	0/3/3/3
48	GDP	VN	501	-	-	1/12/32/32	0/3/3/3
46	GTP	HC	501	47	-	5/18/38/38	0/3/3/3
48	GDP	HJ	501	-	-	1/12/32/32	0/3/3/3
46	GTP	HE	501	47	-	5/18/38/38	0/3/3/3
46	GTP	CM	501	47	-	6/18/38/38	0/3/3/3
46	GTP	VK	501	47	-	7/18/38/38	0/3/3/3
48	GDP	UH	501	-	-	0/12/32/32	0/3/3/3
48	GDP	GH	502	-	-	2/12/32/32	0/3/3/3
46	GTP	LG	501	47	-	4/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
46	GTP	MC	501	47	-	4/18/38/38	0/3/3/3
48	GDP	GB	502	-	-	0/12/32/32	0/3/3/3
46	GTP	RA	501	47	-	5/18/38/38	0/3/3/3
46	GTP	JM	501	47	-	2/18/38/38	0/3/3/3
46	GTP	NK	501	47	-	4/18/38/38	0/3/3/3
46	GTP	KA	501	47	-	7/18/38/38	0/3/3/3
48	GDP	UJ	501	-	-	3/12/32/32	0/3/3/3
46	GTP	LM	501	47	-	6/18/38/38	0/3/3/3
48	GDP	LF	501	-	-	3/12/32/32	0/3/3/3
46	GTP	DM	501	47	-	4/18/38/38	0/3/3/3
46	GTP	NG	501	47	-	5/18/38/38	0/3/3/3
46	GTP	CG	501	47	-	5/18/38/38	0/3/3/3
48	GDP	SF	501	-	-	3/12/32/32	0/3/3/3
48	GDP	HF	502	-	-	1/12/32/32	0/3/3/3
48	GDP	SD	501	-	-	1/12/32/32	0/3/3/3
48	GDP	NJ	501	-	-	0/12/32/32	0/3/3/3
46	GTP	CC	501	47	-	4/18/38/38	0/3/3/3
48	GDP	QH	501	-	-	1/12/32/32	0/3/3/3
46	GTP	NA	501	47	-	9/18/38/38	0/3/3/3
46	GTP	KC	501	47	-	4/18/38/38	0/3/3/3
46	GTP	VI	501	47	-	9/18/38/38	0/3/3/3
46	GTP	MG	501	47	-	5/18/38/38	0/3/3/3
46	GTP	AK	501	47	-	6/18/38/38	0/3/3/3
48	GDP	WJ	502	-	-	0/12/32/32	0/3/3/3
48	GDP	CD	501	-	-	0/12/32/32	0/3/3/3
46	GTP	DK	501	47	-	2/18/38/38	0/3/3/3
46	GTP	KE	501	47	-	2/18/38/38	0/3/3/3
48	GDP	GL	502	-	-	4/12/32/32	0/3/3/3
46	GTP	VA	501	47	-	6/18/38/38	0/3/3/3
46	GTP	QA	501	47	-	9/18/38/38	0/3/3/3
48	GDP	IH	502	-	-	0/12/32/32	0/3/3/3
48	GDP	TF	501	-	-	2/12/32/32	0/3/3/3
46	GTP	PC	501	47	-	4/18/38/38	0/3/3/3
46	GTP	EM	501	47	-	6/18/38/38	0/3/3/3
48	GDP	IL	501	-	-	1/12/32/32	0/3/3/3
46	GTP	IG	501	47	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
48	GDP	TN	501	-	-	1/12/32/32	0/3/3/3
48	GDP	GJ	502	-	-	3/12/32/32	0/3/3/3
46	GTP	KM	501	47	-	6/18/38/38	0/3/3/3
48	GDP	IJ	502	-	-	3/12/32/32	0/3/3/3
48	GDP	ND	501	-	-	0/12/32/32	0/3/3/3
46	GTP	WA	501	47	-	3/18/38/38	0/3/3/3
48	GDP	TJ	501	-	-	2/12/32/32	0/3/3/3
48	GDP	QF	501	-	-	0/12/32/32	0/3/3/3
46	GTP	OM	501	47	-	3/18/38/38	0/3/3/3
48	GDP	KB	501	-	-	0/12/32/32	0/3/3/3
48	GDP	VD	501	-	-	0/12/32/32	0/3/3/3
48	GDP	DN	501	-	-	0/12/32/32	0/3/3/3
46	GTP	JK	501	47	-	5/18/38/38	0/3/3/3
46	GTP	TI	501	47	-	5/18/38/38	0/3/3/3
48	GDP	OD	502	-	-	3/12/32/32	0/3/3/3
48	GDP	LJ	501	-	-	2/12/32/32	0/3/3/3
46	GTP	PA	501	47	-	5/18/38/38	0/3/3/3

All (460) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	SG	501	GTP	C5-C6	-4.65	1.38	1.47
46	FC	501	GTP	C5-C6	-4.64	1.38	1.47
46	FI	501	GTP	C5-C6	-4.61	1.38	1.47
46	EI	501	GTP	C5-C6	-4.57	1.38	1.47
46	FE	501	GTP	C5-C6	-4.56	1.38	1.47
46	TC	501	GTP	C5-C6	-4.54	1.38	1.47
46	FG	501	GTP	C5-C6	-4.53	1.38	1.47
46	LM	501	GTP	C5-C6	-4.53	1.38	1.47
46	QI	501	GTP	C5-C6	-4.53	1.38	1.47
46	KJ	501	GTP	C5-C6	-4.53	1.38	1.47
46	DG	501	GTP	C5-C6	-4.53	1.38	1.47
46	CI	501	GTP	C5-C6	-4.53	1.38	1.47
46	GI	501	GTP	C5-C6	-4.52	1.38	1.47
46	NC	501	GTP	C5-C6	-4.52	1.38	1.47
46	EE	501	GTP	C5-C6	-4.52	1.38	1.47
46	DI	501	GTP	C5-C6	-4.51	1.38	1.47
46	MM	501	GTP	C5-C6	-4.51	1.38	1.47
46	RK	501	GTP	C5-C6	-4.51	1.38	1.47
46	IG	501	GTP	C5-C6	-4.48	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	VE	501	GTP	C5-C6	-4.48	1.38	1.47
46	MG	501	GTP	C5-C6	-4.48	1.38	1.47
46	FK	501	GTP	C5-C6	-4.47	1.38	1.47
46	NG	501	GTP	C5-C6	-4.47	1.38	1.47
46	GB	501	GTP	C5-C6	-4.47	1.38	1.47
46	MC	501	GTP	C5-C6	-4.47	1.38	1.47
46	NK	501	GTP	C5-C6	-4.47	1.38	1.47
46	NA	501	GTP	C5-C6	-4.46	1.38	1.47
46	RG	501	GTP	C5-C6	-4.46	1.38	1.47
46	GD	501	GTP	C5-C6	-4.45	1.38	1.47
46	JE	501	GTP	C5-C6	-4.45	1.38	1.47
46	KG	501	GTP	C5-C6	-4.44	1.38	1.47
46	PK	501	GTP	C5-C6	-4.44	1.38	1.47
46	TM	501	GTP	C5-C6	-4.44	1.38	1.47
46	RE	501	GTP	C5-C6	-4.43	1.38	1.47
46	KE	501	GTP	C5-C6	-4.43	1.38	1.47
46	LE	501	GTP	C5-C6	-4.43	1.38	1.47
46	UK	501	GTP	C5-C6	-4.42	1.38	1.47
46	UI	501	GTP	C5-C6	-4.42	1.38	1.47
46	EK	501	GTP	C5-C6	-4.42	1.38	1.47
46	WI	501	GTP	C5-C6	-4.42	1.38	1.47
46	KK	501	GTP	C5-C6	-4.42	1.38	1.47
46	TI	501	GTP	C5-C6	-4.42	1.38	1.47
46	KA	501	GTP	C5-C6	-4.41	1.38	1.47
46	AE	501	GTP	C5-C6	-4.41	1.38	1.47
46	MK	501	GTP	C5-C6	-4.41	1.38	1.47
46	WA	501	GTP	C5-C6	-4.41	1.38	1.47
46	PC	501	GTP	C5-C6	-4.41	1.38	1.47
46	LB	501	GTP	C5-C6	-4.41	1.38	1.47
46	QE	501	GTP	C5-C6	-4.41	1.38	1.47
46	HC	501	GTP	C5-C6	-4.40	1.38	1.47
46	PI	501	GTP	C5-C6	-4.40	1.38	1.47
46	VI	501	GTP	C5-C6	-4.40	1.38	1.47
46	LG	501	GTP	C5-C6	-4.40	1.38	1.47
46	SI	501	GTP	C5-C6	-4.40	1.38	1.47
46	EG	501	GTP	C5-C6	-4.40	1.38	1.47
46	IE	501	GTP	C5-C6	-4.40	1.38	1.47
46	TE	501	GTP	C5-C6	-4.40	1.38	1.47
46	VC	501	GTP	C5-C6	-4.40	1.38	1.47
46	SK	501	GTP	C5-C6	-4.39	1.38	1.47
46	CG	501	GTP	C5-C6	-4.39	1.38	1.47
46	CK	501	GTP	C5-C6	-4.39	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	GG	501	GTP	C5-C6	-4.39	1.38	1.47
46	OI	501	GTP	C5-C6	-4.38	1.38	1.47
46	SE	501	GTP	C5-C6	-4.38	1.38	1.47
46	NI	501	GTP	C5-C6	-4.38	1.38	1.47
46	PE	501	GTP	C5-C6	-4.38	1.38	1.47
46	WE	501	GTP	C5-C6	-4.38	1.38	1.47
46	RI	501	GTP	C5-C6	-4.37	1.38	1.47
46	TK	501	GTP	C5-C6	-4.37	1.38	1.47
46	OL	501	GTP	C5-C6	-4.37	1.38	1.47
46	DE	501	GTP	C5-C6	-4.37	1.38	1.47
46	MI	501	GTP	C5-C6	-4.36	1.38	1.47
46	CC	501	GTP	C5-C6	-4.36	1.38	1.47
46	OM	501	GTP	C5-C6	-4.36	1.38	1.47
46	VG	501	GTP	C5-C6	-4.36	1.38	1.47
46	HK	501	GTP	C5-C6	-4.36	1.38	1.47
46	JG	501	GTP	C5-C6	-4.36	1.38	1.47
46	HG	501	GTP	C5-C6	-4.36	1.38	1.47
46	ME	501	GTP	C5-C6	-4.36	1.38	1.47
46	MA	501	GTP	C5-C6	-4.36	1.38	1.47
46	AK	501	GTP	C5-C6	-4.35	1.38	1.47
46	CM	501	GTP	C5-C6	-4.35	1.38	1.47
46	RM	501	GTP	C5-C6	-4.35	1.38	1.47
46	UE	501	GTP	C5-C6	-4.34	1.38	1.47
46	JK	501	GTP	C5-C6	-4.34	1.38	1.47
46	GM	501	GTP	C5-C6	-4.34	1.38	1.47
46	KC	501	GTP	C5-C6	-4.34	1.38	1.47
46	LC	501	GTP	C5-C6	-4.34	1.38	1.47
46	WK	501	GTP	C5-C6	-4.34	1.38	1.47
46	CE	501	GTP	C5-C6	-4.34	1.38	1.47
46	KM	501	GTP	C5-C6	-4.34	1.38	1.47
46	WG	501	GTP	C5-C6	-4.33	1.38	1.47
46	LI	501	GTP	C5-C6	-4.33	1.38	1.47
46	DK	501	GTP	C5-C6	-4.33	1.38	1.47
46	AG	501	GTP	C5-C6	-4.33	1.38	1.47
46	QG	501	GTP	C5-C6	-4.33	1.38	1.47
46	WC	501	GTP	C5-C6	-4.33	1.38	1.47
46	SC	501	GTP	C5-C6	-4.33	1.38	1.47
46	OG	501	GTP	C5-C6	-4.32	1.38	1.47
46	PG	501	GTP	C5-C6	-4.32	1.38	1.47
46	AC	501	GTP	C5-C6	-4.32	1.38	1.47
46	AM	501	GTP	C5-C6	-4.32	1.38	1.47
46	OE	501	GTP	C5-C6	-4.32	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	TA	501	GTP	C5-C6	-4.32	1.38	1.47
46	HA	501	GTP	C5-C6	-4.31	1.38	1.47
46	AI	501	GTP	C5-C6	-4.31	1.38	1.47
46	OC	501	GTP	C5-C6	-4.31	1.38	1.47
46	II	501	GTP	C5-C6	-4.31	1.38	1.47
46	AA	501	GTP	C5-C6	-4.30	1.38	1.47
46	IA	501	GTP	C5-C6	-4.30	1.38	1.47
46	BC	501	GTP	C5-C6	-4.30	1.38	1.47
46	TG	501	GTP	C5-C6	-4.30	1.38	1.47
46	HE	501	GTP	C5-C6	-4.30	1.38	1.47
46	UM	501	GTP	C5-C6	-4.30	1.38	1.47
46	VA	501	GTP	C5-C6	-4.29	1.38	1.47
46	QK	501	GTP	C5-C6	-4.29	1.38	1.47
46	BM	501	GTP	C5-C6	-4.29	1.38	1.47
46	DB	502	GTP	C5-C6	-4.28	1.38	1.47
46	NE	501	GTP	C5-C6	-4.28	1.38	1.47
46	FA	501	GTP	C5-C6	-4.28	1.38	1.47
46	JI	501	GTP	C5-C6	-4.27	1.38	1.47
46	BE	501	GTP	C5-C6	-4.27	1.38	1.47
46	QC	501	GTP	C5-C6	-4.27	1.38	1.47
46	OA	501	GTP	C5-C6	-4.27	1.38	1.47
46	GE	501	GTP	C5-C6	-4.26	1.38	1.47
46	VM	501	GTP	C5-C6	-4.26	1.38	1.47
46	FM	501	GTP	C5-C6	-4.26	1.38	1.47
46	BG	501	GTP	C5-C6	-4.26	1.38	1.47
46	PM	501	GTP	C5-C6	-4.25	1.38	1.47
46	VK	501	GTP	C5-C6	-4.25	1.38	1.47
46	BA	501	GTP	C5-C6	-4.25	1.38	1.47
46	QM	501	GTP	C5-C6	-4.25	1.38	1.47
46	UC	501	GTP	C5-C6	-4.25	1.38	1.47
46	SM	501	GTP	C5-C6	-4.25	1.38	1.47
46	BK	501	GTP	C5-C6	-4.25	1.38	1.47
46	EC	501	GTP	C5-C6	-4.24	1.38	1.47
46	ID	501	GTP	C5-C6	-4.24	1.38	1.47
46	IK	501	GTP	C5-C6	-4.24	1.38	1.47
46	EM	501	GTP	C5-C6	-4.24	1.38	1.47
46	GL	501	GTP	C5-C6	-4.22	1.38	1.47
46	UG	501	GTP	C5-C6	-4.22	1.38	1.47
46	RC	501	GTP	C5-C6	-4.21	1.38	1.47
46	IM	501	GTP	C5-C6	-4.20	1.38	1.47
46	RA	501	GTP	C5-C6	-4.20	1.38	1.47
46	WM	501	GTP	C5-C6	-4.19	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	JA	501	GTP	C5-C6	-4.18	1.38	1.47
46	JC	501	GTP	C5-C6	-4.18	1.38	1.47
46	BI	501	GTP	C5-C6	-4.18	1.38	1.47
46	JM	501	GTP	C5-C6	-4.18	1.38	1.47
46	HM	501	GTP	C5-C6	-4.15	1.39	1.47
46	NM	501	GTP	C5-C6	-4.15	1.39	1.47
46	LK	501	GTP	C5-C6	-4.10	1.39	1.47
46	EA	501	GTP	C5-C6	-4.09	1.39	1.47
46	HI	501	GTP	C5-C6	-4.08	1.39	1.47
46	QA	501	GTP	C5-C6	-4.08	1.39	1.47
46	UA	501	GTP	C5-C6	-4.05	1.39	1.47
46	PA	501	GTP	C5-C6	-4.04	1.39	1.47
46	DM	501	GTP	C5-C6	-4.03	1.39	1.47
46	SA	501	GTP	C5-C6	-4.03	1.39	1.47
46	CA	501	GTP	C5-C6	-4.02	1.39	1.47
46	DA	501	GTP	C5-C6	-3.97	1.39	1.47
48	GH	502	GDP	C6-N1	-2.93	1.33	1.37
48	WJ	502	GDP	C6-N1	-2.93	1.33	1.37
48	HD	501	GDP	C6-N1	-2.91	1.33	1.37
48	NJ	501	GDP	C6-N1	-2.89	1.33	1.37
48	PH	501	GDP	C6-N1	-2.85	1.33	1.37
48	KJ	502	GDP	C6-N1	-2.85	1.33	1.37
48	HJ	501	GDP	C6-N1	-2.85	1.33	1.37
48	TD	501	GDP	C6-N1	-2.83	1.33	1.37
48	WF	501	GDP	C6-N1	-2.83	1.33	1.37
48	DJ	501	GDP	C6-N1	-2.83	1.33	1.37
48	WH	501	GDP	C6-N1	-2.82	1.33	1.37
48	FH	501	GDP	C6-N1	-2.82	1.33	1.37
48	VN	501	GDP	C6-N1	-2.82	1.33	1.37
48	WL	501	GDP	C6-N1	-2.82	1.33	1.37
48	OF	501	GDP	C6-N1	-2.81	1.33	1.37
48	FJ	501	GDP	C6-N1	-2.80	1.33	1.37
48	BF	502	GDP	C6-N1	-2.80	1.33	1.37
48	PJ	501	GDP	C6-N1	-2.79	1.33	1.37
48	QH	501	GDP	C6-N1	-2.79	1.33	1.37
48	KB	501	GDP	C6-N1	-2.79	1.33	1.37
48	BJ	502	GDP	C6-N1	-2.79	1.33	1.37
48	GJ	502	GDP	C6-N1	-2.79	1.33	1.37
48	MN	502	GDP	C6-N1	-2.79	1.33	1.37
48	CF	501	GDP	C6-N1	-2.79	1.33	1.37
48	ND	501	GDP	C6-N1	-2.78	1.33	1.37
48	VD	501	GDP	C6-N1	-2.78	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	AH	501	GDP	C6-N1	-2.78	1.33	1.37
48	UJ	501	GDP	C6-N1	-2.78	1.33	1.37
48	WD	501	GDP	C6-N1	-2.77	1.33	1.37
48	KL	501	GDP	C6-N1	-2.77	1.33	1.37
48	OL	502	GDP	C6-N1	-2.76	1.33	1.37
48	BH	502	GDP	C6-N1	-2.76	1.33	1.37
48	DF	501	GDP	C6-N1	-2.76	1.33	1.37
48	HL	502	GDP	C6-N1	-2.76	1.33	1.37
48	FL	501	GDP	C6-N1	-2.76	1.33	1.37
48	RH	501	GDP	C6-N1	-2.76	1.33	1.37
48	DH	501	GDP	C6-N1	-2.75	1.33	1.37
48	DD	501	GDP	C6-N1	-2.74	1.33	1.37
48	OH	501	GDP	C6-N1	-2.73	1.33	1.37
48	VB	502	GDP	C6-N1	-2.73	1.33	1.37
48	JF	501	GDP	C6-N1	-2.73	1.33	1.37
48	UN	501	GDP	C6-N1	-2.73	1.33	1.37
48	VL	501	GDP	C6-N1	-2.73	1.33	1.37
48	OJ	501	GDP	C6-N1	-2.73	1.33	1.37
48	JL	501	GDP	C6-N1	-2.73	1.33	1.37
48	ED	501	GDP	C6-N1	-2.73	1.33	1.37
48	NF	501	GDP	C6-N1	-2.72	1.33	1.37
48	AJ	501	GDP	C6-N1	-2.72	1.33	1.37
48	RJ	501	GDP	C6-N1	-2.72	1.33	1.37
48	BL	502	GDP	C6-N1	-2.71	1.33	1.37
48	GL	502	GDP	C6-N1	-2.71	1.33	1.37
48	CJ	501	GDP	C6-N1	-2.71	1.33	1.37
48	IH	502	GDP	C6-N1	-2.71	1.33	1.37
48	HF	502	GDP	C6-N1	-2.70	1.33	1.37
48	AL	502	GDP	C6-N1	-2.70	1.33	1.37
48	VJ	501	GDP	C6-N1	-2.70	1.33	1.37
48	IL	501	GDP	C6-N1	-2.70	1.33	1.37
48	JH	501	GDP	C6-N1	-2.70	1.33	1.37
48	EH	501	GDP	C6-N1	-2.69	1.33	1.37
48	AF	501	GDP	C6-N1	-2.69	1.33	1.37
48	SJ	501	GDP	C6-N1	-2.68	1.33	1.37
48	UF	501	GDP	C6-N1	-2.68	1.33	1.37
48	KH	501	GDP	C6-N1	-2.68	1.33	1.37
48	UD	501	GDP	C6-N1	-2.68	1.33	1.37
48	JD	501	GDP	C6-N1	-2.68	1.33	1.37
48	KD	501	GDP	C6-N1	-2.68	1.33	1.37
48	VF	501	GDP	C6-N1	-2.67	1.33	1.37
48	ON	501	GDP	C6-N1	-2.67	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	MJ	502	GDP	C6-N1	-2.66	1.33	1.37
48	BD	502	GDP	C6-N1	-2.66	1.33	1.37
48	LB	502	GDP	C6-N1	-2.66	1.33	1.37
48	QJ	501	GDP	C6-N1	-2.66	1.33	1.37
48	MF	502	GDP	C6-N1	-2.66	1.33	1.37
48	CH	501	GDP	C6-N1	-2.66	1.33	1.37
48	CD	501	GDP	C6-N1	-2.65	1.33	1.37
48	WB	501	GDP	C6-N1	-2.65	1.33	1.37
48	LD	501	GDP	C6-N1	-2.65	1.33	1.37
48	IN	501	GDP	C6-N1	-2.65	1.33	1.37
48	RD	501	GDP	C6-N1	-2.65	1.33	1.37
48	LN	502	GDP	C6-N1	-2.65	1.33	1.37
48	UL	501	GDP	C6-N1	-2.65	1.33	1.37
48	TH	501	GDP	C6-N1	-2.64	1.33	1.37
48	GF	501	GDP	C6-N1	-2.64	1.33	1.37
48	PN	501	GDP	C6-N1	-2.63	1.33	1.37
48	PL	501	GDP	C6-N1	-2.63	1.34	1.37
48	KF	502	GDP	C6-N1	-2.63	1.34	1.37
48	CL	501	GDP	C6-N1	-2.63	1.34	1.37
48	NL	501	GDP	C6-N1	-2.63	1.34	1.37
48	OD	502	GDP	C6-N1	-2.63	1.34	1.37
48	HH	501	GDP	C6-N1	-2.63	1.34	1.37
48	LL	501	GDP	C6-N1	-2.63	1.34	1.37
48	VH	501	GDP	C6-N1	-2.62	1.34	1.37
48	NH	501	GDP	C6-N1	-2.62	1.34	1.37
48	MH	501	GDP	C6-N1	-2.62	1.34	1.37
48	AN	501	GDP	C6-N1	-2.61	1.34	1.37
48	BN	501	GDP	C6-N1	-2.61	1.34	1.37
48	LJ	501	GDP	C6-N1	-2.61	1.34	1.37
48	ML	501	GDP	C6-N1	-2.60	1.34	1.37
48	MD	501	GDP	C6-N1	-2.60	1.34	1.37
48	DL	501	GDP	C6-N1	-2.60	1.34	1.37
48	QF	501	GDP	C6-N1	-2.60	1.34	1.37
48	RN	501	GDP	C6-N1	-2.60	1.34	1.37
48	WN	501	GDP	C6-N1	-2.59	1.34	1.37
48	CB	501	GDP	C6-N1	-2.59	1.34	1.37
48	SF	501	GDP	C6-N1	-2.59	1.34	1.37
48	GD	503	GDP	C6-N1	-2.58	1.34	1.37
48	FN	501	GDP	C6-N1	-2.58	1.34	1.37
48	UB	501	GDP	C6-N1	-2.58	1.34	1.37
48	RF	501	GDP	C6-N1	-2.57	1.34	1.37
48	EF	501	GDP	C6-N1	-2.57	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	CN	501	GDP	C6-N1	-2.57	1.34	1.37
48	GN	501	GDP	C6-N1	-2.56	1.34	1.37
48	MB	501	GDP	C6-N1	-2.56	1.34	1.37
48	AD	501	GDP	C6-N1	-2.56	1.34	1.37
48	NN	501	GDP	C6-N1	-2.56	1.34	1.37
48	UH	501	GDP	C6-N1	-2.56	1.34	1.37
48	RB	501	GDP	C6-N1	-2.56	1.34	1.37
48	QD	501	GDP	C6-N1	-2.55	1.34	1.37
48	JJ	501	GDP	C6-N1	-2.55	1.34	1.37
48	FF	502	GDP	C6-N1	-2.53	1.34	1.37
48	FD	502	GDP	C6-N1	-2.53	1.34	1.37
48	IF	501	GDP	C6-N1	-2.53	1.34	1.37
48	KN	501	GDP	C6-N1	-2.52	1.34	1.37
48	ID	502	GDP	C6-N1	-2.52	1.34	1.37
48	IJ	502	GDP	C6-N1	-2.49	1.34	1.37
48	EL	501	GDP	C6-N1	-2.48	1.34	1.37
48	GB	502	GDP	C6-N1	-2.48	1.34	1.37
48	LF	501	GDP	C6-N1	-2.48	1.34	1.37
48	LH	501	GDP	C6-N1	-2.47	1.34	1.37
48	EN	501	GDP	C6-N1	-2.47	1.34	1.37
48	HN	501	GDP	C6-N1	-2.47	1.34	1.37
48	BB	501	GDP	C6-N1	-2.47	1.34	1.37
48	EJ	501	GDP	C6-N1	-2.46	1.34	1.37
48	JN	501	GDP	C6-N1	-2.46	1.34	1.37
48	PF	501	GDP	C6-N1	-2.46	1.34	1.37
48	PD	502	GDP	C6-N1	-2.45	1.34	1.37
48	AB	502	GDP	C6-N1	-2.45	1.34	1.37
48	SB	501	GDP	C6-N1	-2.44	1.34	1.37
48	TL	501	GDP	C6-N1	-2.44	1.34	1.37
48	SD	501	GDP	C6-N1	-2.44	1.34	1.37
48	TF	501	GDP	C6-N1	-2.43	1.34	1.37
48	RL	501	GDP	C6-N1	-2.43	1.34	1.37
48	DN	501	GDP	C6-N1	-2.42	1.34	1.37
48	QB	501	GDP	C6-N1	-2.40	1.34	1.37
48	DB	501	GDP	C6-N1	-2.38	1.34	1.37
48	IB	501	GDP	C6-N1	-2.38	1.34	1.37
48	QL	501	GDP	C6-N1	-2.38	1.34	1.37
48	JB	501	GDP	C6-N1	-2.38	1.34	1.37
48	TJ	501	GDP	C6-N1	-2.37	1.34	1.37
48	OB	501	GDP	C6-N1	-2.37	1.34	1.37
48	SL	501	GDP	C6-N1	-2.36	1.34	1.37
48	SN	501	GDP	C6-N1	-2.36	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	PB	501	GDP	C6-N1	-2.35	1.34	1.37
48	QN	501	GDP	C6-N1	-2.34	1.34	1.37
48	TB	501	GDP	C6-N1	-2.34	1.34	1.37
48	FB	501	GDP	C6-N1	-2.33	1.34	1.37
48	TN	501	GDP	C6-N1	-2.32	1.34	1.37
48	HB	501	GDP	C6-N1	-2.31	1.34	1.37
48	EB	501	GDP	C6-N1	-2.30	1.34	1.37
46	QA	501	GTP	C2-N3	2.28	1.38	1.33
46	BC	501	GTP	C2-N3	2.27	1.38	1.33
48	SH	501	GDP	C6-N1	-2.27	1.34	1.37
48	NB	501	GDP	C6-N1	-2.27	1.34	1.37
46	QC	501	GTP	C2-N3	2.25	1.38	1.33
46	HM	501	GTP	C2-N3	2.24	1.38	1.33
46	CA	501	GTP	C2-N3	2.24	1.38	1.33
46	SA	501	GTP	C2-N3	2.23	1.38	1.33
46	AC	501	GTP	C2-N3	2.23	1.38	1.33
46	LK	501	GTP	C2-N3	2.23	1.38	1.33
46	RM	501	GTP	C2-N3	2.23	1.38	1.33
46	UA	501	GTP	C2-N3	2.22	1.38	1.33
46	JM	501	GTP	C2-N3	2.22	1.38	1.33
46	WE	501	GTP	C2-N3	2.22	1.38	1.33
46	ID	501	GTP	C2-N3	2.21	1.38	1.33
48	CB	501	GDP	O4'-C1'	2.21	1.44	1.41
46	DA	501	GTP	C2-N3	2.20	1.38	1.33
46	CM	501	GTP	C2-N3	2.20	1.38	1.33
46	WC	501	GTP	C2-N3	2.20	1.38	1.33
46	RA	501	GTP	C2-N3	2.19	1.38	1.33
46	WM	501	GTP	C2-N3	2.19	1.38	1.33
46	HA	501	GTP	C2-N3	2.18	1.38	1.33
46	VA	501	GTP	C2-N3	2.18	1.38	1.33
46	FM	501	GTP	C2-N3	2.18	1.38	1.33
46	QK	501	GTP	C2-N3	2.18	1.38	1.33
46	TI	501	GTP	C2-N3	2.18	1.38	1.33
46	UC	501	GTP	C2-N3	2.17	1.38	1.33
46	DB	502	GTP	C2-N3	2.17	1.38	1.33
46	OC	501	GTP	C2-N3	2.17	1.38	1.33
46	TE	501	GTP	C2-N3	2.17	1.38	1.33
46	TG	501	GTP	C2-N3	2.17	1.38	1.33
46	QE	501	GTP	C2-N3	2.16	1.38	1.33
46	EA	501	GTP	C2-N3	2.16	1.38	1.33
46	BI	501	GTP	C2-N3	2.15	1.38	1.33
46	RC	501	GTP	C2-N3	2.15	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	UG	501	GTP	C2-N3	2.15	1.38	1.33
46	BG	501	GTP	C2-N3	2.15	1.38	1.33
46	BM	501	GTP	C2-N3	2.15	1.38	1.33
46	QM	501	GTP	C2-N3	2.15	1.38	1.33
46	GD	501	GTP	C2-N3	2.15	1.38	1.33
46	NM	501	GTP	C2-N3	2.14	1.38	1.33
46	EC	501	GTP	C2-N3	2.14	1.38	1.33
46	JI	501	GTP	C2-N3	2.14	1.38	1.33
46	JE	501	GTP	C2-N3	2.14	1.38	1.33
46	BA	501	GTP	C2-N3	2.14	1.38	1.33
46	DK	501	GTP	C2-N3	2.14	1.38	1.33
46	QG	501	GTP	C2-N3	2.13	1.38	1.33
46	WG	501	GTP	C2-N3	2.13	1.38	1.33
46	PI	501	GTP	C2-N3	2.13	1.38	1.33
46	SE	501	GTP	C2-N3	2.13	1.38	1.33
46	AK	501	GTP	C2-N3	2.13	1.38	1.33
46	EM	501	GTP	C2-N3	2.13	1.38	1.33
46	IK	501	GTP	C2-N3	2.13	1.38	1.33
46	EI	501	GTP	C2-N3	2.12	1.38	1.33
46	UM	501	GTP	C2-N3	2.12	1.38	1.33
46	HC	501	GTP	C2-N3	2.12	1.38	1.33
46	IE	501	GTP	C2-N3	2.12	1.38	1.33
46	CG	501	GTP	C2-N3	2.12	1.38	1.33
46	PA	501	GTP	C2-N3	2.12	1.38	1.33
46	GM	501	GTP	C2-N3	2.12	1.38	1.33
46	VG	501	GTP	C2-N3	2.11	1.38	1.33
46	JC	501	GTP	C2-N3	2.11	1.38	1.33
46	OA	501	GTP	C2-N3	2.11	1.38	1.33
46	LM	501	GTP	C2-N3	2.11	1.38	1.33
46	PE	501	GTP	C2-N3	2.11	1.38	1.33
46	UE	501	GTP	C2-N3	2.11	1.38	1.33
46	GI	501	GTP	C2-N3	2.11	1.38	1.33
46	JK	501	GTP	C2-N3	2.11	1.38	1.33
46	MA	501	GTP	C2-N3	2.11	1.38	1.33
46	CK	501	GTP	C2-N3	2.10	1.38	1.33
46	SK	501	GTP	C2-N3	2.10	1.38	1.33
46	VM	501	GTP	C2-N3	2.10	1.38	1.33
46	WI	501	GTP	C2-N3	2.10	1.38	1.33
46	HK	501	GTP	C2-N3	2.10	1.38	1.33
46	IM	501	GTP	C2-N3	2.10	1.38	1.33
46	EK	501	GTP	C2-N3	2.10	1.38	1.33
46	HE	501	GTP	C2-N3	2.10	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	RE	501	GTP	C2-N3	2.10	1.38	1.33
46	VE	501	GTP	C2-N3	2.10	1.38	1.33
46	TM	501	GTP	C2-N3	2.10	1.38	1.33
46	AE	501	GTP	C2-N3	2.09	1.38	1.33
46	SM	501	GTP	C2-N3	2.09	1.38	1.33
46	RI	501	GTP	C2-N3	2.09	1.38	1.33
46	DG	501	GTP	C2-N3	2.09	1.38	1.33
46	AG	501	GTP	C2-N3	2.09	1.38	1.33
46	LG	501	GTP	C2-N3	2.09	1.38	1.33
46	QI	501	GTP	C2-N3	2.09	1.38	1.33
46	BE	501	GTP	C2-N3	2.09	1.38	1.33
46	GG	501	GTP	C2-N3	2.09	1.38	1.33
46	PK	501	GTP	C2-N3	2.09	1.38	1.33
46	MM	501	GTP	C2-N3	2.08	1.38	1.33
46	AA	501	GTP	C2-N3	2.08	1.38	1.33
46	ME	501	GTP	C2-N3	2.08	1.38	1.33
46	KM	501	GTP	C2-N3	2.08	1.38	1.33
46	LE	501	GTP	C2-N3	2.08	1.38	1.33
46	HG	501	GTP	C2-N3	2.08	1.38	1.33
46	PM	501	GTP	C2-N3	2.08	1.38	1.33
46	AM	501	GTP	C2-N3	2.07	1.38	1.33
46	VK	501	GTP	C2-N3	2.07	1.38	1.33
46	MK	501	GTP	C2-N3	2.07	1.38	1.33
46	SI	501	GTP	C2-N3	2.07	1.38	1.33
46	MI	501	GTP	C2-N3	2.07	1.38	1.33
46	LB	501	GTP	C2-N3	2.07	1.38	1.33
46	TA	501	GTP	C2-N3	2.07	1.38	1.33
46	RG	501	GTP	C2-N3	2.07	1.38	1.33
46	OE	501	GTP	C2-N3	2.06	1.38	1.33
46	FC	501	GTP	C2-N3	2.06	1.38	1.33
46	VI	501	GTP	C2-N3	2.06	1.38	1.33
46	CE	501	GTP	C2-N3	2.06	1.38	1.33
46	EG	501	GTP	C2-N3	2.06	1.38	1.33
46	OI	501	GTP	C2-N3	2.06	1.38	1.33
46	PG	501	GTP	C2-N3	2.06	1.38	1.33
46	JA	501	GTP	C2-N3	2.06	1.38	1.33
46	GL	501	GTP	C2-N3	2.05	1.38	1.33
46	CI	501	GTP	C2-N3	2.05	1.38	1.33
46	OM	501	GTP	C2-N3	2.05	1.38	1.33
46	BK	501	GTP	C2-N3	2.05	1.38	1.33
46	FG	501	GTP	C2-N3	2.05	1.38	1.33
46	GE	501	GTP	C2-N3	2.05	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	OL	501	GTP	C2-N3	2.04	1.38	1.33
46	LC	501	GTP	C2-N3	2.04	1.38	1.33
46	AI	501	GTP	C2-N3	2.04	1.38	1.33
46	FA	501	GTP	C2-N3	2.04	1.38	1.33
48	VB	502	GDP	O4'-C1'	2.04	1.43	1.41
46	NE	501	GTP	C2-N3	2.04	1.38	1.33
46	DI	501	GTP	C2-N3	2.04	1.38	1.33
46	UK	501	GTP	C2-N3	2.03	1.38	1.33
46	WA	501	GTP	C2-N3	2.03	1.38	1.33
46	KK	501	GTP	C2-N3	2.03	1.38	1.33
46	MG	501	GTP	C2-N3	2.03	1.38	1.33
46	FK	501	GTP	C2-N3	2.03	1.38	1.33
46	CC	501	GTP	C2-N3	2.03	1.38	1.33
46	EE	501	GTP	C2-N3	2.03	1.38	1.33
46	KA	501	GTP	C2-N3	2.02	1.38	1.33
46	UI	501	GTP	C2-N3	2.02	1.38	1.33
46	RK	501	GTP	C2-N3	2.02	1.38	1.33
46	HI	501	GTP	C2-N3	2.02	1.38	1.33
46	DM	501	GTP	C2-N3	2.01	1.38	1.33
46	KG	501	GTP	C2-N3	2.01	1.38	1.33
46	DE	501	GTP	C2-N3	2.00	1.38	1.33

All (1770) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	BC	501	GTP	PB-O3B-PG	-5.40	114.28	132.83
46	UG	501	GTP	PB-O3B-PG	-5.17	115.08	132.83
46	BG	501	GTP	PB-O3B-PG	-5.15	115.14	132.83
48	LD	501	GDP	PA-O3A-PB	-5.11	115.28	132.83
48	CB	501	GDP	C3'-C2'-C1'	5.10	108.66	100.98
46	JA	501	GTP	PB-O3B-PG	-5.06	115.47	132.83
46	EK	501	GTP	PA-O3A-PB	-5.06	115.47	132.83
46	WE	501	GTP	PB-O3B-PG	-5.03	115.57	132.83
46	ME	501	GTP	PB-O3B-PG	-4.99	115.69	132.83
46	DM	501	GTP	PA-O3A-PB	-4.97	115.76	132.83
46	KE	501	GTP	PB-O3B-PG	-4.97	115.77	132.83
46	HI	501	GTP	PB-O3B-PG	-4.90	116.00	132.83
46	JE	501	GTP	PB-O3B-PG	-4.90	116.01	132.83
46	FC	501	GTP	PB-O3B-PG	-4.90	116.03	132.83
46	FA	501	GTP	PB-O3B-PG	-4.87	116.10	132.83
46	DI	501	GTP	PB-O3B-PG	-4.87	116.12	132.83
46	TE	501	GTP	PB-O3B-PG	-4.84	116.22	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	QK	501	GTP	PB-O3B-PG	-4.83	116.25	132.83
46	II	501	GTP	PB-O3B-PG	-4.80	116.35	132.83
46	FG	501	GTP	PB-O3B-PG	-4.80	116.37	132.83
48	DF	501	GDP	PA-O3A-PB	-4.77	116.46	132.83
46	HK	501	GTP	PB-O3B-PG	-4.76	116.49	132.83
46	JG	501	GTP	PB-O3B-PG	-4.74	116.56	132.83
46	MA	501	GTP	PB-O3B-PG	-4.74	116.58	132.83
46	EE	501	GTP	PB-O3B-PG	-4.73	116.60	132.83
46	EG	501	GTP	PB-O3B-PG	-4.72	116.62	132.83
46	PK	501	GTP	PB-O3B-PG	-4.71	116.66	132.83
46	JM	501	GTP	PA-O3A-PB	-4.67	116.78	132.83
48	SH	501	GDP	PA-O3A-PB	-4.67	116.81	132.83
46	CK	501	GTP	PB-O3B-PG	-4.67	116.81	132.83
46	TM	501	GTP	PB-O3B-PG	-4.65	116.86	132.83
48	VF	501	GDP	PA-O3A-PB	-4.65	116.86	132.83
46	KK	501	GTP	PB-O3B-PG	-4.65	116.88	132.83
46	AI	501	GTP	PB-O3B-PG	-4.64	116.90	132.83
48	OL	502	GDP	PA-O3A-PB	-4.64	116.90	132.83
46	DG	501	GTP	PB-O3B-PG	-4.62	116.97	132.83
46	GG	501	GTP	PB-O3B-PG	-4.61	117.00	132.83
46	PA	501	GTP	PB-O3B-PG	-4.60	117.03	132.83
48	NL	501	GDP	PA-O3A-PB	-4.60	117.03	132.83
46	EI	501	GTP	PB-O3B-PG	-4.60	117.05	132.83
46	AM	501	GTP	PB-O3B-PG	-4.59	117.07	132.83
48	AN	501	GDP	PA-O3A-PB	-4.59	117.08	132.83
46	JA	501	GTP	PA-O3A-PB	-4.58	117.10	132.83
46	PC	501	GTP	PB-O3B-PG	-4.58	117.10	132.83
48	IJ	502	GDP	PA-O3A-PB	-4.58	117.12	132.83
48	GF	501	GDP	PA-O3A-PB	-4.57	117.14	132.83
46	RC	501	GTP	PB-O3B-PG	-4.57	117.16	132.83
46	WC	501	GTP	PB-O3B-PG	-4.55	117.20	132.83
48	VJ	501	GDP	PA-O3A-PB	-4.55	117.20	132.83
46	SE	501	GTP	PB-O3B-PG	-4.55	117.21	132.83
46	SG	501	GTP	PB-O3B-PG	-4.54	117.25	132.83
48	JH	501	GDP	PA-O3A-PB	-4.54	117.26	132.83
46	GE	501	GTP	PB-O3B-PG	-4.53	117.29	132.83
46	QK	501	GTP	PA-O3A-PB	-4.52	117.30	132.83
48	RL	501	GDP	PA-O3A-PB	-4.51	117.35	132.83
48	BH	502	GDP	PA-O3A-PB	-4.51	117.36	132.83
46	MI	501	GTP	PB-O3B-PG	-4.51	117.36	132.83
46	MM	501	GTP	PB-O3B-PG	-4.50	117.37	132.83
46	GI	501	GTP	PB-O3B-PG	-4.50	117.37	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	KM	501	GTP	PA-O3A-PB	-4.50	117.38	132.83
48	DJ	501	GDP	PA-O3A-PB	-4.50	117.38	132.83
46	EC	501	GTP	PB-O3B-PG	-4.50	117.38	132.83
46	MG	501	GTP	PB-O3B-PG	-4.50	117.40	132.83
48	DH	501	GDP	PA-O3A-PB	-4.50	117.40	132.83
46	OG	501	GTP	PA-O3A-PB	-4.48	117.44	132.83
46	UK	501	GTP	PB-O3B-PG	-4.48	117.46	132.83
48	NH	501	GDP	PA-O3A-PB	-4.48	117.46	132.83
46	CM	501	GTP	PB-O3B-PG	-4.48	117.47	132.83
46	FI	501	GTP	PB-O3B-PG	-4.48	117.47	132.83
48	HL	502	GDP	PA-O3A-PB	-4.47	117.47	132.83
48	RH	501	GDP	PA-O3A-PB	-4.47	117.48	132.83
46	EK	501	GTP	PB-O3B-PG	-4.46	117.50	132.83
46	AC	501	GTP	PB-O3B-PG	-4.46	117.53	132.83
46	CI	501	GTP	PB-O3B-PG	-4.45	117.56	132.83
48	DL	501	GDP	PA-O3A-PB	-4.44	117.58	132.83
46	BE	501	GTP	PB-O3B-PG	-4.44	117.60	132.83
48	WF	501	GDP	PA-O3A-PB	-4.44	117.60	132.83
48	VL	501	GDP	PA-O3A-PB	-4.44	117.60	132.83
48	UH	501	GDP	PA-O3A-PB	-4.43	117.64	132.83
46	RI	501	GTP	PB-O3B-PG	-4.42	117.65	132.83
46	UM	501	GTP	PB-O3B-PG	-4.42	117.66	132.83
46	QC	501	GTP	PB-O3B-PG	-4.41	117.69	132.83
48	LF	501	GDP	PA-O3A-PB	-4.41	117.71	132.83
48	AL	502	GDP	PA-O3A-PB	-4.39	117.77	132.83
48	MD	501	GDP	PA-O3A-PB	-4.38	117.80	132.83
48	FF	502	GDP	PA-O3A-PB	-4.38	117.80	132.83
48	FD	502	GDP	PA-O3A-PB	-4.37	117.82	132.83
46	KE	501	GTP	PA-O3A-PB	-4.37	117.83	132.83
46	PG	501	GTP	PB-O3B-PG	-4.36	117.86	132.83
48	BF	502	GDP	PA-O3A-PB	-4.36	117.87	132.83
46	BK	501	GTP	PB-O3B-PG	-4.36	117.88	132.83
46	KM	501	GTP	PB-O3B-PG	-4.35	117.89	132.83
46	LI	501	GTP	PA-O3A-PB	-4.34	117.92	132.83
48	GD	503	GDP	PA-O3A-PB	-4.34	117.92	132.83
46	KG	501	GTP	PA-O3A-PB	-4.34	117.93	132.83
46	RM	501	GTP	PB-O3B-PG	-4.34	117.93	132.83
46	IG	501	GTP	PB-O3B-PG	-4.34	117.95	132.83
48	GL	502	GDP	PA-O3A-PB	-4.33	117.98	132.83
46	RK	501	GTP	PB-O3B-PG	-4.32	117.99	132.83
48	BN	501	GDP	PA-O3A-PB	-4.32	118.01	132.83
46	QA	501	GTP	PB-O3B-PG	-4.32	118.01	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	IH	502	GDP	PA-O3A-PB	-4.31	118.02	132.83
46	MC	501	GTP	PB-O3B-PG	-4.30	118.06	132.83
48	ED	501	GDP	PA-O3A-PB	-4.30	118.06	132.83
46	QI	501	GTP	PB-O3B-PG	-4.29	118.09	132.83
46	IK	501	GTP	PB-O3B-PG	-4.29	118.09	132.83
46	OL	501	GTP	PA-O3A-PB	-4.29	118.11	132.83
48	CL	501	GDP	PA-O3A-PB	-4.29	118.11	132.83
46	RG	501	GTP	PB-O3B-PG	-4.28	118.13	132.83
46	GI	501	GTP	PA-O3A-PB	-4.28	118.15	132.83
48	KN	501	GDP	PA-O3A-PB	-4.28	118.15	132.83
48	PF	501	GDP	PA-O3A-PB	-4.27	118.16	132.83
48	LL	501	GDP	PA-O3A-PB	-4.27	118.17	132.83
46	HK	501	GTP	PA-O3A-PB	-4.27	118.17	132.83
46	MG	501	GTP	PA-O3A-PB	-4.27	118.19	132.83
48	MF	502	GDP	PA-O3A-PB	-4.26	118.19	132.83
46	FK	501	GTP	PB-O3B-PG	-4.26	118.19	132.83
48	LB	502	GDP	PA-O3A-PB	-4.26	118.20	132.83
46	JE	501	GTP	PA-O3A-PB	-4.26	118.21	132.83
48	EB	501	GDP	PA-O3A-PB	-4.26	118.21	132.83
48	PL	501	GDP	PA-O3A-PB	-4.26	118.22	132.83
46	JI	501	GTP	PB-O3B-PG	-4.25	118.24	132.83
48	WH	501	GDP	PA-O3A-PB	-4.24	118.27	132.83
48	PJ	501	GDP	PA-O3A-PB	-4.24	118.28	132.83
46	QE	501	GTP	PA-O3A-PB	-4.24	118.29	132.83
48	CH	501	GDP	PA-O3A-PB	-4.24	118.29	132.83
48	HH	501	GDP	PA-O3A-PB	-4.23	118.31	132.83
46	KC	501	GTP	PA-O3A-PB	-4.22	118.36	132.83
46	IE	501	GTP	PB-O3B-PG	-4.21	118.39	132.83
46	WA	501	GTP	PB-O3B-PG	-4.20	118.41	132.83
48	BL	502	GDP	PA-O3A-PB	-4.20	118.41	132.83
46	SK	501	GTP	PB-O3B-PG	-4.20	118.42	132.83
46	UM	501	GTP	PA-O3A-PB	-4.19	118.43	132.83
48	HD	501	GDP	PA-O3A-PB	-4.19	118.45	132.83
46	OE	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
48	SJ	501	GDP	PA-O3A-PB	-4.18	118.50	132.83
48	AD	501	GDP	PA-O3A-PB	-4.17	118.50	132.83
48	MN	502	GDP	PA-O3A-PB	-4.17	118.51	132.83
48	SD	501	GDP	PA-O3A-PB	-4.17	118.51	132.83
48	KJ	502	GDP	PA-O3A-PB	-4.17	118.52	132.83
46	KJ	501	GTP	PB-O3B-PG	-4.17	118.52	132.83
48	PN	501	GDP	PA-O3A-PB	-4.17	118.53	132.83
46	PI	501	GTP	PA-O3A-PB	-4.16	118.55	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	ID	502	GDP	PA-O3A-PB	-4.16	118.55	132.83
46	WM	501	GTP	PA-O3A-PB	-4.16	118.56	132.83
46	AI	501	GTP	PA-O3A-PB	-4.13	118.64	132.83
48	OJ	501	GDP	PA-O3A-PB	-4.13	118.65	132.83
46	RE	501	GTP	PB-O3B-PG	-4.13	118.66	132.83
48	BD	502	GDP	PA-O3A-PB	-4.13	118.67	132.83
46	OC	501	GTP	PB-O3B-PG	-4.12	118.68	132.83
46	VK	501	GTP	PB-O3B-PG	-4.12	118.68	132.83
46	OI	501	GTP	PA-O3A-PB	-4.12	118.69	132.83
46	UE	501	GTP	PB-O3B-PG	-4.12	118.69	132.83
46	KC	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
48	JD	501	GDP	PA-O3A-PB	-4.12	118.70	132.83
46	AM	501	GTP	PA-O3A-PB	-4.11	118.72	132.83
48	GH	502	GDP	PA-O3A-PB	-4.10	118.74	132.83
46	PE	501	GTP	PB-O3B-PG	-4.10	118.76	132.83
48	FL	501	GDP	PA-O3A-PB	-4.10	118.76	132.83
46	EC	501	GTP	PA-O3A-PB	-4.10	118.77	132.83
46	HC	501	GTP	PB-O3B-PG	-4.09	118.78	132.83
48	KL	501	GDP	PA-O3A-PB	-4.09	118.78	132.83
48	CN	501	GDP	PA-O3A-PB	-4.09	118.79	132.83
48	UF	501	GDP	PA-O3A-PB	-4.09	118.81	132.83
48	TJ	501	GDP	PA-O3A-PB	-4.09	118.81	132.83
48	UD	501	GDP	PA-O3A-PB	-4.08	118.82	132.83
48	HF	502	GDP	PA-O3A-PB	-4.07	118.86	132.83
46	DM	501	GTP	PB-O3B-PG	-4.07	118.86	132.83
46	RI	501	GTP	PA-O3A-PB	-4.07	118.86	132.83
46	OC	501	GTP	PA-O3A-PB	-4.06	118.89	132.83
46	DK	501	GTP	PA-O3A-PB	-4.06	118.89	132.83
48	UL	501	GDP	PA-O3A-PB	-4.05	118.92	132.83
46	HE	501	GTP	PB-O3B-PG	-4.05	118.93	132.83
48	QH	501	GDP	PA-O3A-PB	-4.05	118.94	132.83
46	KK	501	GTP	PA-O3A-PB	-4.05	118.94	132.83
48	KB	501	GDP	PA-O3A-PB	-4.04	118.95	132.83
46	AC	501	GTP	PA-O3A-PB	-4.04	118.97	132.83
46	DG	501	GTP	PA-O3A-PB	-4.03	119.00	132.83
48	TF	501	GDP	PA-O3A-PB	-4.03	119.00	132.83
48	FH	501	GDP	PA-O3A-PB	-4.03	119.00	132.83
46	HI	501	GTP	PA-O3A-PB	-4.03	119.01	132.83
48	GJ	502	GDP	PA-O3A-PB	-4.03	119.01	132.83
48	EF	501	GDP	PA-O3A-PB	-4.03	119.01	132.83
48	WB	501	GDP	PA-O3A-PB	-4.02	119.03	132.83
46	CG	501	GTP	PB-O3B-PG	-4.02	119.03	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	SF	501	GDP	PA-O3A-PB	-4.02	119.03	132.83
48	OH	501	GDP	PA-O3A-PB	-4.02	119.04	132.83
48	NF	501	GDP	PA-O3A-PB	-4.02	119.04	132.83
46	VG	501	GTP	PB-O3B-PG	-4.02	119.04	132.83
46	NE	501	GTP	PA-O3A-PB	-4.00	119.09	132.83
46	CA	501	GTP	PB-O3B-PG	-4.00	119.09	132.83
46	KA	501	GTP	PB-O3B-PG	-4.00	119.12	132.83
46	MI	501	GTP	PA-O3A-PB	-3.99	119.12	132.83
48	UN	501	GDP	PA-O3A-PB	-3.99	119.13	132.83
46	PM	501	GTP	PB-O3B-PG	-3.99	119.14	132.83
46	MK	501	GTP	PB-O3B-PG	-3.99	119.14	132.83
48	JF	501	GDP	PA-O3A-PB	-3.99	119.15	132.83
48	WL	501	GDP	PA-O3A-PB	-3.99	119.15	132.83
48	VH	501	GDP	PA-O3A-PB	-3.98	119.17	132.83
46	DK	501	GTP	PB-O3B-PG	-3.97	119.19	132.83
48	CF	501	GDP	PA-O3A-PB	-3.97	119.22	132.83
48	VD	501	GDP	PA-O3A-PB	-3.96	119.22	132.83
46	EM	501	GTP	PA-O3A-PB	-3.96	119.23	132.83
46	NG	501	GTP	PB-O3B-PG	-3.96	119.23	132.83
46	EE	501	GTP	PA-O3A-PB	-3.96	119.23	132.83
46	NC	501	GTP	PA-O3A-PB	-3.96	119.24	132.83
48	RF	501	GDP	PA-O3A-PB	-3.96	119.24	132.83
46	NK	501	GTP	PA-O3A-PB	-3.96	119.24	132.83
46	WI	501	GTP	PB-O3B-PG	-3.96	119.25	132.83
46	LG	501	GTP	PA-O3A-PB	-3.95	119.26	132.83
48	FB	501	GDP	PA-O3A-PB	-3.95	119.27	132.83
48	GB	502	GDP	PA-O3A-PB	-3.94	119.30	132.83
48	RD	501	GDP	PA-O3A-PB	-3.94	119.31	132.83
46	SG	501	GTP	PA-O3A-PB	-3.94	119.31	132.83
48	LH	501	GDP	PA-O3A-PB	-3.94	119.31	132.83
46	MK	501	GTP	PA-O3A-PB	-3.94	119.32	132.83
48	OF	501	GDP	PA-O3A-PB	-3.93	119.33	132.83
48	JJ	501	GDP	PA-O3A-PB	-3.93	119.35	132.83
46	CK	501	GTP	PA-O3A-PB	-3.93	119.35	132.83
48	LN	502	GDP	PA-O3A-PB	-3.93	119.36	132.83
46	VI	501	GTP	PA-O3A-PB	-3.92	119.36	132.83
48	WD	501	GDP	PA-O3A-PB	-3.92	119.37	132.83
46	IG	501	GTP	PA-O3A-PB	-3.92	119.37	132.83
46	SE	501	GTP	PA-O3A-PB	-3.92	119.38	132.83
48	AF	501	GDP	PA-O3A-PB	-3.92	119.38	132.83
46	LB	501	GTP	PB-O3B-PG	-3.91	119.41	132.83
48	DD	501	GDP	PA-O3A-PB	-3.91	119.42	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	OE	501	GTP	PA-O3A-PB	-3.90	119.43	132.83
48	FJ	501	GDP	PA-O3A-PB	-3.90	119.44	132.83
46	PI	501	GTP	PB-O3B-PG	-3.90	119.45	132.83
46	TK	501	GTP	PA-O3A-PB	-3.90	119.45	132.83
46	QE	501	GTP	PB-O3B-PG	-3.90	119.46	132.83
46	JC	501	GTP	PA-O3A-PB	-3.89	119.48	132.83
46	GB	501	GTP	PB-O3B-PG	-3.89	119.49	132.83
46	AG	501	GTP	PA-O3A-PB	-3.88	119.50	132.83
46	OA	501	GTP	PB-O3B-PG	-3.88	119.50	132.83
46	NC	501	GTP	PB-O3B-PG	-3.88	119.51	132.83
48	CD	501	GDP	PA-O3A-PB	-3.88	119.52	132.83
48	EH	501	GDP	PA-O3A-PB	-3.87	119.54	132.83
48	QL	501	GDP	PA-O3A-PB	-3.87	119.54	132.83
48	MJ	502	GDP	PA-O3A-PB	-3.87	119.55	132.83
46	OI	501	GTP	PB-O3B-PG	-3.87	119.55	132.83
48	JN	501	GDP	PA-O3A-PB	-3.86	119.57	132.83
48	KD	501	GDP	PA-O3A-PB	-3.86	119.58	132.83
46	HG	501	GTP	PB-O3B-PG	-3.86	119.59	132.83
46	LE	501	GTP	PA-O3A-PB	-3.86	119.60	132.83
46	GD	501	GTP	PB-O3B-PG	-3.85	119.61	132.83
46	MA	501	GTP	PA-O3A-PB	-3.85	119.62	132.83
48	BJ	502	GDP	PA-O3A-PB	-3.85	119.62	132.83
48	HB	501	GDP	PA-O3A-PB	-3.84	119.65	132.83
46	IA	501	GTP	PA-O3A-PB	-3.84	119.66	132.83
48	PD	502	GDP	PA-O3A-PB	-3.84	119.67	132.83
46	LK	501	GTP	PB-O3B-PG	-3.83	119.67	132.83
48	JL	501	GDP	PA-O3A-PB	-3.83	119.70	132.83
46	NK	501	GTP	PB-O3B-PG	-3.82	119.70	132.83
46	BK	501	GTP	PA-O3A-PB	-3.82	119.72	132.83
48	WJ	502	GDP	PA-O3A-PB	-3.81	119.75	132.83
46	QC	501	GTP	PA-O3A-PB	-3.81	119.75	132.83
46	NG	501	GTP	PA-O3A-PB	-3.81	119.76	132.83
46	BG	501	GTP	PA-O3A-PB	-3.81	119.77	132.83
46	KA	501	GTP	PA-O3A-PB	-3.80	119.77	132.83
46	LE	501	GTP	PB-O3B-PG	-3.80	119.78	132.83
48	DN	501	GDP	PA-O3A-PB	-3.80	119.79	132.83
46	OM	501	GTP	PB-O3B-PG	-3.80	119.80	132.83
46	LC	501	GTP	PA-O3A-PB	-3.79	119.81	132.83
48	JB	501	GDP	PA-O3A-PB	-3.79	119.81	132.83
46	LI	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
46	OA	501	GTP	PA-O3A-PB	-3.79	119.83	132.83
48	QJ	501	GDP	PA-O3A-PB	-3.79	119.83	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	PA	501	GTP	PA-O3A-PB	-3.79	119.83	132.83
46	JC	501	GTP	PB-O3B-PG	-3.79	119.84	132.83
46	TC	501	GTP	PA-O3A-PB	-3.78	119.85	132.83
48	ND	501	GDP	PA-O3A-PB	-3.78	119.86	132.83
46	PG	501	GTP	PA-O3A-PB	-3.77	119.87	132.83
48	AB	502	GDP	PA-O3A-PB	-3.77	119.88	132.83
48	TD	501	GDP	PA-O3A-PB	-3.77	119.88	132.83
46	AA	501	GTP	PB-O3B-PG	-3.77	119.88	132.83
48	PH	501	GDP	PA-O3A-PB	-3.77	119.88	132.83
46	CE	501	GTP	PA-O3A-PB	-3.77	119.89	132.83
46	SK	501	GTP	PA-O3A-PB	-3.77	119.89	132.83
46	IA	501	GTP	PB-O3B-PG	-3.77	119.90	132.83
46	CG	501	GTP	PA-O3A-PB	-3.76	119.92	132.83
46	NM	501	GTP	PB-O3B-PG	-3.76	119.92	132.83
46	LG	501	GTP	PB-O3B-PG	-3.76	119.93	132.83
46	GD	501	GTP	PA-O3A-PB	-3.75	119.95	132.83
48	TH	501	GDP	PA-O3A-PB	-3.75	119.95	132.83
46	VE	501	GTP	PB-O3B-PG	-3.75	119.96	132.83
48	AJ	501	GDP	PA-O3A-PB	-3.75	119.96	132.83
48	MH	501	GDP	PA-O3A-PB	-3.75	119.97	132.83
46	NI	501	GTP	PA-O3A-PB	-3.75	119.97	132.83
46	JM	501	GTP	PB-O3B-PG	-3.74	119.98	132.83
46	NE	501	GTP	PB-O3B-PG	-3.74	120.00	132.83
46	HC	501	GTP	PA-O3A-PB	-3.74	120.01	132.83
48	SL	501	GDP	PA-O3A-PB	-3.73	120.01	132.83
46	AA	501	GTP	PA-O3A-PB	-3.73	120.02	132.83
48	NJ	501	GDP	PA-O3A-PB	-3.73	120.03	132.83
46	EM	501	GTP	PB-O3B-PG	-3.72	120.06	132.83
48	SB	501	GDP	PA-O3A-PB	-3.72	120.07	132.83
46	OG	501	GTP	PB-O3B-PG	-3.72	120.08	132.83
46	LM	501	GTP	PB-O3B-PG	-3.71	120.10	132.83
48	EL	501	GDP	PA-O3A-PB	-3.70	120.12	132.83
48	CJ	501	GDP	PA-O3A-PB	-3.70	120.13	132.83
48	VB	502	GDP	PA-O3A-PB	-3.70	120.14	132.83
48	LJ	501	GDP	PA-O3A-PB	-3.69	120.15	132.83
48	UB	501	GDP	PA-O3A-PB	-3.69	120.17	132.83
46	FM	501	GTP	PA-O3A-PB	-3.68	120.19	132.83
48	IN	501	GDP	PA-O3A-PB	-3.68	120.19	132.83
46	NA	501	GTP	PB-O3B-PG	-3.68	120.19	132.83
48	BB	501	GDP	PA-O3A-PB	-3.68	120.21	132.83
46	DE	501	GTP	PB-O3B-PG	-3.67	120.23	132.83
46	AG	501	GTP	PB-O3B-PG	-3.67	120.23	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	OM	501	GTP	PA-O3A-PB	-3.67	120.23	132.83
46	LB	501	GTP	PA-O3A-PB	-3.67	120.24	132.83
48	EJ	501	GDP	PA-O3A-PB	-3.67	120.24	132.83
46	EG	501	GTP	PA-O3A-PB	-3.66	120.25	132.83
46	BC	501	GTP	PA-O3A-PB	-3.65	120.30	132.83
46	BE	501	GTP	PA-O3A-PB	-3.65	120.31	132.83
46	HI	501	GTP	C5-C6-N1	3.65	120.39	113.95
48	ML	501	GDP	PA-O3A-PB	-3.65	120.32	132.83
48	DB	501	GDP	PA-O3A-PB	-3.64	120.32	132.83
46	WE	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
46	IE	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
48	IL	501	GDP	PA-O3A-PB	-3.64	120.33	132.83
48	SN	501	GDP	PA-O3A-PB	-3.64	120.34	132.83
48	QF	501	GDP	PA-O3A-PB	-3.64	120.35	132.83
46	DI	501	GTP	PA-O3A-PB	-3.63	120.36	132.83
48	RJ	501	GDP	PA-O3A-PB	-3.63	120.36	132.83
48	IF	501	GDP	PA-O3A-PB	-3.63	120.36	132.83
46	BA	501	GTP	PB-O3B-PG	-3.63	120.36	132.83
48	KH	501	GDP	PA-O3A-PB	-3.63	120.37	132.83
46	UK	501	GTP	PA-O3A-PB	-3.63	120.37	132.83
46	ID	501	GTP	PB-O3B-PG	-3.63	120.39	132.83
46	VI	501	GTP	PB-O3B-PG	-3.61	120.43	132.83
46	LK	501	GTP	PA-O3A-PB	-3.61	120.44	132.83
46	TM	501	GTP	PA-O3A-PB	-3.61	120.44	132.83
48	WN	501	GDP	PA-O3A-PB	-3.61	120.45	132.83
48	TB	501	GDP	PA-O3A-PB	-3.60	120.46	132.83
46	RE	501	GTP	PA-O3A-PB	-3.60	120.46	132.83
48	IB	501	GDP	PA-O3A-PB	-3.60	120.47	132.83
48	VN	501	GDP	PA-O3A-PB	-3.60	120.48	132.83
46	GL	501	GTP	PB-O3B-PG	-3.59	120.50	132.83
46	FA	501	GTP	PA-O3A-PB	-3.59	120.52	132.83
46	QI	501	GTP	PA-O3A-PB	-3.58	120.53	132.83
46	FM	501	GTP	PB-O3B-PG	-3.58	120.53	132.83
48	EH	501	GDP	C3'-C2'-C1'	3.58	106.37	100.98
48	AH	501	GDP	PA-O3A-PB	-3.57	120.56	132.83
48	RB	501	GDP	PA-O3A-PB	-3.57	120.56	132.83
46	FK	501	GTP	PA-O3A-PB	-3.57	120.56	132.83
46	GM	501	GTP	PB-O3B-PG	-3.57	120.57	132.83
46	RA	501	GTP	PA-O3A-PB	-3.57	120.58	132.83
46	DA	501	GTP	PB-O3B-PG	-3.56	120.60	132.83
46	SC	501	GTP	PA-O3A-PB	-3.56	120.60	132.83
48	NN	501	GDP	PA-O3A-PB	-3.56	120.61	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	LC	501	GTP	PB-O3B-PG	-3.56	120.61	132.83
46	WC	501	GTP	PA-O3A-PB	-3.56	120.62	132.83
48	ON	501	GDP	C3'-C2'-C1'	3.55	106.32	100.98
46	AE	501	GTP	PB-O3B-PG	-3.55	120.65	132.83
46	AK	501	GTP	PA-O3A-PB	-3.54	120.67	132.83
48	QB	501	GDP	PA-O3A-PB	-3.54	120.67	132.83
48	PF	501	GDP	C3'-C2'-C1'	3.54	106.31	100.98
46	CI	501	GTP	PA-O3A-PB	-3.53	120.70	132.83
46	SM	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
46	HM	501	GTP	PB-O3B-PG	-3.53	120.73	132.83
48	RN	501	GDP	PA-O3A-PB	-3.52	120.75	132.83
46	HE	501	GTP	PA-O3A-PB	-3.52	120.75	132.83
46	RA	501	GTP	PB-O3B-PG	-3.52	120.76	132.83
48	QD	501	GDP	C3'-C2'-C1'	3.51	106.27	100.98
48	OD	502	GDP	PA-O3A-PB	-3.51	120.77	132.83
46	WA	501	GTP	PA-O3A-PB	-3.51	120.78	132.83
48	QN	501	GDP	PA-O3A-PB	-3.51	120.78	132.83
46	AK	501	GTP	C5-C6-N1	3.51	120.14	113.95
46	FC	501	GTP	PA-O3A-PB	-3.51	120.80	132.83
48	EN	501	GDP	PA-O3A-PB	-3.51	120.80	132.83
48	QD	501	GDP	PA-O3A-PB	-3.50	120.81	132.83
46	KG	501	GTP	PB-O3B-PG	-3.50	120.81	132.83
48	UB	501	GDP	C3'-C2'-C1'	3.50	106.25	100.98
48	TN	501	GDP	PA-O3A-PB	-3.50	120.82	132.83
46	JA	501	GTP	C5-C6-N1	3.50	120.13	113.95
46	TE	501	GTP	C5-C6-N1	3.49	120.12	113.95
46	TG	501	GTP	PB-O3B-PG	-3.49	120.84	132.83
46	PC	501	GTP	PA-O3A-PB	-3.49	120.85	132.83
46	VC	501	GTP	PB-O3B-PG	-3.49	120.85	132.83
46	EI	501	GTP	PA-O3A-PB	-3.49	120.86	132.83
48	SB	501	GDP	C3'-C2'-C1'	3.48	106.21	100.98
46	SM	501	GTP	PA-O3A-PB	-3.47	120.90	132.83
46	FI	501	GTP	PA-O3A-PB	-3.47	120.91	132.83
48	MH	501	GDP	C3'-C2'-C1'	3.47	106.20	100.98
48	WD	501	GDP	C3'-C2'-C1'	3.47	106.20	100.98
46	UM	501	GTP	C5-C6-N1	3.46	120.06	113.95
48	MB	501	GDP	C3'-C2'-C1'	3.46	106.19	100.98
46	LM	501	GTP	PA-O3A-PB	-3.46	120.96	132.83
48	KF	502	GDP	PA-O3A-PB	-3.46	120.97	132.83
48	FH	501	GDP	C3'-C2'-C1'	3.46	106.18	100.98
46	SC	501	GTP	PB-O3B-PG	-3.46	120.97	132.83
48	UJ	501	GDP	C3'-C2'-C1'	3.46	106.18	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CC	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
46	TA	501	GTP	PB-O3B-PG	-3.45	120.98	132.83
46	RG	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
46	ME	501	GTP	PA-O3A-PB	-3.45	121.00	132.83
48	RJ	501	GDP	C3'-C2'-C1'	3.45	106.17	100.98
48	UF	501	GDP	C3'-C2'-C1'	3.44	106.16	100.98
48	TL	501	GDP	C3'-C2'-C1'	3.44	106.16	100.98
48	NB	501	GDP	PA-O3A-PB	-3.44	121.03	132.83
46	FE	501	GTP	PB-O3B-PG	-3.44	121.03	132.83
46	JK	501	GTP	PB-O3B-PG	-3.44	121.04	132.83
48	HN	501	GDP	PA-O3A-PB	-3.44	121.04	132.83
46	GG	501	GTP	PA-O3A-PB	-3.43	121.04	132.83
48	IB	501	GDP	C3'-C2'-C1'	3.43	106.15	100.98
48	DD	501	GDP	C3'-C2'-C1'	3.43	106.14	100.98
46	NI	501	GTP	PB-O3B-PG	-3.43	121.05	132.83
46	DB	502	GTP	PA-O3A-PB	-3.43	121.06	132.83
46	TG	501	GTP	C5-C6-N1	3.43	120.00	113.95
48	WF	501	GDP	C3'-C2'-C1'	3.43	106.14	100.98
46	KJ	501	GTP	PA-O3A-PB	-3.42	121.08	132.83
46	BM	501	GTP	PA-O3A-PB	-3.42	121.09	132.83
48	VD	501	GDP	C3'-C2'-C1'	3.42	106.12	100.98
46	HE	501	GTP	C5-C6-N1	3.42	119.99	113.95
46	WC	501	GTP	C5-C6-N1	3.41	119.98	113.95
48	LB	502	GDP	C3'-C2'-C1'	3.41	106.12	100.98
48	FL	501	GDP	C3'-C2'-C1'	3.41	106.12	100.98
48	EN	501	GDP	C3'-C2'-C1'	3.41	106.11	100.98
46	CA	501	GTP	PA-O3A-PB	-3.41	121.14	132.83
48	NF	501	GDP	C3'-C2'-C1'	3.40	106.10	100.98
46	OC	501	GTP	C5-C6-N1	3.40	119.96	113.95
48	TH	501	GDP	C3'-C2'-C1'	3.40	106.09	100.98
48	UD	501	GDP	C3'-C2'-C1'	3.40	106.09	100.98
46	MM	501	GTP	PA-O3A-PB	-3.40	121.17	132.83
48	DH	501	GDP	C3'-C2'-C1'	3.40	106.09	100.98
48	KD	501	GDP	C3'-C2'-C1'	3.40	106.09	100.98
48	GL	502	GDP	C3'-C2'-C1'	3.39	106.09	100.98
48	JD	501	GDP	C3'-C2'-C1'	3.39	106.09	100.98
46	AK	501	GTP	PB-O3B-PG	-3.39	121.18	132.83
48	RN	501	GDP	C3'-C2'-C1'	3.39	106.08	100.98
48	UJ	501	GDP	PA-O3A-PB	-3.39	121.20	132.83
48	DF	501	GDP	C3'-C2'-C1'	3.38	106.07	100.98
46	JI	501	GTP	C5-C6-N1	3.38	119.93	113.95
46	VG	501	GTP	C5-C6-N1	3.38	119.92	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	MJ	502	GDP	C3'-C2'-C1'	3.38	106.07	100.98
46	RK	501	GTP	PA-O3A-PB	-3.38	121.22	132.83
48	MN	502	GDP	C3'-C2'-C1'	3.38	106.06	100.98
46	TK	501	GTP	PB-O3B-PG	-3.38	121.24	132.83
46	HA	501	GTP	C5-C6-N1	3.37	119.91	113.95
48	EB	501	GDP	C3'-C2'-C1'	3.37	106.06	100.98
46	JK	501	GTP	PA-O3A-PB	-3.37	121.25	132.83
48	KL	501	GDP	C3'-C2'-C1'	3.37	106.06	100.98
46	VE	501	GTP	C5-C6-N1	3.37	119.91	113.95
48	FN	501	GDP	PA-O3A-PB	-3.37	121.25	132.83
46	KE	501	GTP	C5-C6-N1	3.37	119.91	113.95
46	CM	501	GTP	PA-O3A-PB	-3.37	121.26	132.83
48	ED	501	GDP	C3'-C2'-C1'	3.37	106.05	100.98
46	PK	501	GTP	C5-C6-N1	3.37	119.90	113.95
46	QI	501	GTP	C5-C6-N1	3.37	119.89	113.95
46	UA	501	GTP	PB-O3B-PG	-3.37	121.28	132.83
48	AH	501	GDP	C3'-C2'-C1'	3.36	106.04	100.98
48	ND	501	GDP	C3'-C2'-C1'	3.36	106.04	100.98
48	PB	501	GDP	PA-O3A-PB	-3.36	121.30	132.83
48	DJ	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
48	KF	502	GDP	C3'-C2'-C1'	3.36	106.03	100.98
46	HG	501	GTP	PA-O3A-PB	-3.36	121.31	132.83
46	SA	501	GTP	PA-O3A-PB	-3.36	121.31	132.83
46	TG	501	GTP	PA-O3A-PB	-3.35	121.31	132.83
48	GD	503	GDP	C3'-C2'-C1'	3.35	106.02	100.98
48	BB	501	GDP	C3'-C2'-C1'	3.35	106.02	100.98
46	GE	501	GTP	C5-C6-N1	3.35	119.87	113.95
46	WM	501	GTP	C5-C6-N1	3.35	119.86	113.95
48	OL	502	GDP	C3'-C2'-C1'	3.35	106.02	100.98
46	GB	501	GTP	PA-O3A-PB	-3.35	121.34	132.83
46	LK	501	GTP	C5-C6-N1	3.35	119.86	113.95
46	QC	501	GTP	C5-C6-N1	3.35	119.86	113.95
46	VI	501	GTP	C5-C6-N1	3.34	119.86	113.95
48	NB	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
48	PB	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
46	WG	501	GTP	C5-C6-N1	3.34	119.85	113.95
46	LC	501	GTP	C5-C6-N1	3.34	119.85	113.95
48	GJ	502	GDP	C3'-C2'-C1'	3.34	106.01	100.98
46	NG	501	GTP	C5-C6-N1	3.34	119.85	113.95
46	QG	501	GTP	C5-C6-N1	3.34	119.84	113.95
48	NH	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
48	QN	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	PJ	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
48	VB	502	GDP	C3'-C2'-C1'	3.33	106.00	100.98
46	VA	501	GTP	C5-C6-N1	3.33	119.84	113.95
46	IE	501	GTP	C5-C6-N1	3.33	119.84	113.95
46	OI	501	GTP	C5-C6-N1	3.33	119.84	113.95
46	QK	501	GTP	C5-C6-N1	3.33	119.84	113.95
48	CL	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
48	DN	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
48	WN	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
48	KH	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
48	PN	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
46	HC	501	GTP	C5-C6-N1	3.33	119.83	113.95
46	WI	501	GTP	C5-C6-N1	3.33	119.83	113.95
48	WJ	502	GDP	C3'-C2'-C1'	3.32	105.98	100.98
46	FM	501	GTP	C5-C6-N1	3.32	119.82	113.95
46	OL	501	GTP	C5-C6-N1	3.32	119.82	113.95
48	BL	502	GDP	C3'-C2'-C1'	3.32	105.98	100.98
46	GI	501	GTP	C5-C6-N1	3.32	119.82	113.95
46	JM	501	GTP	C5-C6-N1	3.32	119.82	113.95
48	DL	501	GDP	C3'-C2'-C1'	3.32	105.98	100.98
48	AB	502	GDP	C3'-C2'-C1'	3.32	105.97	100.98
46	TI	501	GTP	PB-O3B-PG	-3.32	121.44	132.83
48	FF	502	GDP	C3'-C2'-C1'	3.32	105.97	100.98
48	QH	501	GDP	C3'-C2'-C1'	3.32	105.97	100.98
46	VM	501	GTP	C5-C6-N1	3.31	119.80	113.95
48	JL	501	GDP	C3'-C2'-C1'	3.31	105.97	100.98
46	CC	501	GTP	C5-C6-N1	3.31	119.80	113.95
48	TB	501	GDP	C3'-C2'-C1'	3.31	105.97	100.98
46	ID	501	GTP	C5-C6-N1	3.31	119.80	113.95
46	MK	501	GTP	C5-C6-N1	3.31	119.80	113.95
46	CE	501	GTP	C5-C6-N1	3.31	119.80	113.95
46	LE	501	GTP	C5-C6-N1	3.31	119.79	113.95
48	OB	501	GDP	PA-O3A-PB	-3.31	121.47	132.83
46	CI	501	GTP	C5-C6-N1	3.31	119.79	113.95
46	OM	501	GTP	C5-C6-N1	3.31	119.79	113.95
48	JH	501	GDP	C3'-C2'-C1'	3.31	105.96	100.98
46	II	501	GTP	PA-O3A-PB	-3.31	121.48	132.83
48	CJ	501	GDP	C3'-C2'-C1'	3.30	105.95	100.98
48	DB	501	GDP	C3'-C2'-C1'	3.30	105.95	100.98
46	AA	501	GTP	C5-C6-N1	3.30	119.78	113.95
46	JC	501	GTP	C5-C6-N1	3.30	119.78	113.95
48	RB	501	GDP	C3'-C2'-C1'	3.30	105.95	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	VC	501	GTP	C5-C6-N1	3.30	119.78	113.95
46	FI	501	GTP	C5-C6-N1	3.30	119.77	113.95
46	AI	501	GTP	C5-C6-N1	3.30	119.77	113.95
48	IJ	502	GDP	C3'-C2'-C1'	3.30	105.94	100.98
46	KK	501	GTP	C5-C6-N1	3.29	119.77	113.95
46	PI	501	GTP	C5-C6-N1	3.29	119.77	113.95
46	AG	501	GTP	C5-C6-N1	3.29	119.76	113.95
46	WI	501	GTP	PA-O3A-PB	-3.29	121.53	132.83
46	UC	501	GTP	C5-C6-N1	3.29	119.76	113.95
46	BC	501	GTP	C5-C6-N1	3.29	119.76	113.95
46	BI	501	GTP	PA-O3A-PB	-3.29	121.55	132.83
46	ME	501	GTP	C5-C6-N1	3.29	119.75	113.95
46	VM	501	GTP	PB-O3B-PG	-3.28	121.56	132.83
48	FJ	501	GDP	C3'-C2'-C1'	3.28	105.92	100.98
48	RL	501	GDP	C3'-C2'-C1'	3.28	105.92	100.98
48	VL	501	GDP	C3'-C2'-C1'	3.28	105.92	100.98
48	HJ	501	GDP	C3'-C2'-C1'	3.28	105.92	100.98
46	KA	501	GTP	C5-C6-N1	3.28	119.74	113.95
46	BG	501	GTP	C5-C6-N1	3.28	119.74	113.95
46	KG	501	GTP	C5-C6-N1	3.28	119.74	113.95
48	OB	501	GDP	C3'-C2'-C1'	3.28	105.91	100.98
46	TM	501	GTP	C5-C6-N1	3.28	119.74	113.95
48	LH	501	GDP	C3'-C2'-C1'	3.28	105.91	100.98
46	DB	502	GTP	C5-C6-N1	3.28	119.73	113.95
48	IL	501	GDP	C3'-C2'-C1'	3.27	105.91	100.98
46	BA	501	GTP	C5-C6-N1	3.27	119.73	113.95
46	OG	501	GTP	C5-C6-N1	3.27	119.73	113.95
48	AJ	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
48	IN	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
48	WB	501	GDP	C3'-C2'-C1'	3.27	105.89	100.98
46	NC	501	GTP	C5-C6-N1	3.27	119.72	113.95
46	NE	501	GTP	C5-C6-N1	3.26	119.72	113.95
46	BI	501	GTP	C5-C6-N1	3.26	119.71	113.95
46	KC	501	GTP	C5-C6-N1	3.26	119.71	113.95
46	MM	501	GTP	C5-C6-N1	3.26	119.71	113.95
46	MA	501	GTP	C5-C6-N1	3.26	119.70	113.95
48	PD	502	GDP	C3'-C2'-C1'	3.26	105.88	100.98
46	KJ	501	GTP	C5-C6-N1	3.26	119.70	113.95
46	LG	501	GTP	C5-C6-N1	3.26	119.70	113.95
48	BF	502	GDP	C3'-C2'-C1'	3.26	105.88	100.98
46	QM	501	GTP	C5-C6-N1	3.25	119.70	113.95
46	OA	501	GTP	C5-C6-N1	3.25	119.70	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	PM	501	GTP	C5-C6-N1	3.25	119.69	113.95
46	RE	501	GTP	C5-C6-N1	3.25	119.69	113.95
46	DB	502	GTP	PB-O3B-PG	-3.25	121.67	132.83
46	BK	501	GTP	C5-C6-N1	3.25	119.69	113.95
48	VH	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
48	VN	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
46	HM	501	GTP	C5-C6-N1	3.25	119.69	113.95
46	CC	501	GTP	PB-O3B-PG	-3.25	121.68	132.83
46	IK	501	GTP	PA-O3A-PB	-3.25	121.68	132.83
46	MC	501	GTP	PA-O3A-PB	-3.25	121.68	132.83
46	FE	501	GTP	C5-C6-N1	3.25	119.68	113.95
46	PG	501	GTP	C5-C6-N1	3.25	119.68	113.95
48	PH	501	GDP	C3'-C2'-C1'	3.25	105.86	100.98
46	JI	501	GTP	PA-O3A-PB	-3.24	121.69	132.83
46	EM	501	GTP	C5-C6-N1	3.24	119.68	113.95
48	WL	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
46	AC	501	GTP	C5-C6-N1	3.24	119.68	113.95
46	AM	501	GTP	C5-C6-N1	3.24	119.68	113.95
46	HK	501	GTP	C5-C6-N1	3.24	119.68	113.95
46	LB	501	GTP	C5-C6-N1	3.24	119.68	113.95
46	NK	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	SC	501	GTP	C5-C6-N1	3.24	119.67	113.95
48	SL	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
46	GL	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	EK	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	QE	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	MG	501	GTP	C5-C6-N1	3.24	119.67	113.95
48	SJ	501	GDP	C3'-C2'-C1'	3.24	105.85	100.98
46	JK	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	SM	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	UI	501	GTP	PB-O3B-PG	-3.24	121.72	132.83
46	II	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	AE	501	GTP	C5-C6-N1	3.23	119.66	113.95
46	WE	501	GTP	C5-C6-N1	3.23	119.66	113.95
48	TN	501	GDP	C3'-C2'-C1'	3.23	105.85	100.98
46	VC	501	GTP	PA-O3A-PB	-3.23	121.73	132.83
46	TC	501	GTP	C5-C6-N1	3.23	119.66	113.95
48	SD	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
46	EC	501	GTP	C5-C6-N1	3.23	119.66	113.95
46	DM	501	GTP	C5-C6-N1	3.23	119.66	113.95
46	ID	501	GTP	PA-O3A-PB	-3.23	121.74	132.83
46	EI	501	GTP	C5-C6-N1	3.23	119.66	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	DI	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	LI	501	GTP	C5-C6-N1	3.23	119.65	113.95
48	SN	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
46	TI	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	QE	501	GTP	C3'-C2'-C1'	3.23	105.84	100.98
46	NI	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	DA	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	JE	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	IK	501	GTP	C5-C6-N1	3.23	119.65	113.95
48	QF	501	GDP	C3'-C2'-C1'	3.23	105.83	100.98
46	FG	501	GTP	C5-C6-N1	3.22	119.65	113.95
46	OM	501	GTP	C3'-C2'-C1'	3.22	105.83	100.98
46	EA	501	GTP	C5-C6-N1	3.22	119.64	113.95
48	GH	502	GDP	C3'-C2'-C1'	3.22	105.83	100.98
48	GN	501	GDP	PA-O3A-PB	-3.22	121.77	132.83
46	RG	501	GTP	C5-C6-N1	3.22	119.64	113.95
46	NM	501	GTP	PA-O3A-PB	-3.22	121.77	132.83
48	TL	501	GDP	PA-O3A-PB	-3.22	121.78	132.83
48	ID	502	GDP	C3'-C2'-C1'	3.22	105.82	100.98
46	IA	501	GTP	C5-C6-N1	3.22	119.64	113.95
46	MC	501	GTP	C5-C6-N1	3.22	119.64	113.95
46	PC	501	GTP	C5-C6-N1	3.22	119.63	113.95
46	UA	501	GTP	C5-C6-N1	3.22	119.63	113.95
48	SF	501	GDP	C3'-C2'-C1'	3.22	105.82	100.98
46	GG	501	GTP	C5-C6-N1	3.21	119.63	113.95
48	CD	501	GDP	C3'-C2'-C1'	3.21	105.82	100.98
46	RC	501	GTP	C5-C6-N1	3.21	119.62	113.95
46	WA	501	GTP	C5-C6-N1	3.21	119.62	113.95
48	ON	501	GDP	PA-O3A-PB	-3.21	121.81	132.83
48	UL	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98
46	RI	501	GTP	C5-C6-N1	3.21	119.62	113.95
46	FA	501	GTP	C5-C6-N1	3.21	119.62	113.95
46	GD	501	GTP	C5-C6-N1	3.21	119.62	113.95
48	MF	502	GDP	C3'-C2'-C1'	3.21	105.81	100.98
46	LM	501	GTP	C5-C6-N1	3.21	119.61	113.95
46	MI	501	GTP	C5-C6-N1	3.20	119.61	113.95
48	JN	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
46	FC	501	GTP	C5-C6-N1	3.20	119.61	113.95
46	OE	501	GTP	C5-C6-N1	3.20	119.61	113.95
46	CA	501	GTP	C5-C6-N1	3.20	119.61	113.95
46	RK	501	GTP	C5-C6-N1	3.20	119.60	113.95
46	BE	501	GTP	C5-C6-N1	3.20	119.60	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	UG	501	GTP	C5-C6-N1	3.20	119.59	113.95
46	DK	501	GTP	C5-C6-N1	3.19	119.59	113.95
46	WK	501	GTP	C5-C6-N1	3.19	119.59	113.95
48	GF	501	GDP	C3'-C2'-C1'	3.19	105.79	100.98
46	GM	501	GTP	C5-C6-N1	3.19	119.59	113.95
46	RA	501	GTP	C5-C6-N1	3.19	119.59	113.95
48	BN	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
46	DG	501	GTP	C5-C6-N1	3.19	119.58	113.95
46	EE	501	GTP	C5-C6-N1	3.19	119.58	113.95
48	HL	502	GDP	C3'-C2'-C1'	3.19	105.78	100.98
46	CG	501	GTP	C5-C6-N1	3.19	119.58	113.95
48	TF	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
46	IM	501	GTP	C5-C6-N1	3.19	119.58	113.95
46	BM	501	GTP	C5-C6-N1	3.19	119.58	113.95
48	LN	502	GDP	C3'-C2'-C1'	3.18	105.77	100.98
46	DE	501	GTP	C5-C6-N1	3.18	119.58	113.95
46	GM	501	GTP	PA-O3A-PB	-3.18	121.90	132.83
46	CK	501	GTP	C5-C6-N1	3.18	119.57	113.95
46	FK	501	GTP	C5-C6-N1	3.18	119.57	113.95
48	GN	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
46	JG	501	GTP	C5-C6-N1	3.18	119.56	113.95
48	UN	501	GDP	C3'-C2'-C1'	3.18	105.76	100.98
46	SI	501	GTP	C5-C6-N1	3.17	119.56	113.95
46	EM	501	GTP	C3'-C2'-C1'	3.17	105.76	100.98
46	UM	501	GTP	C3'-C2'-C1'	3.17	105.76	100.98
48	CN	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
46	UK	501	GTP	C5-C6-N1	3.17	119.55	113.95
46	UA	501	GTP	PA-O3A-PB	-3.17	121.95	132.83
46	PE	501	GTP	C5-C6-N1	3.17	119.54	113.95
48	AF	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
48	EJ	501	GDP	C3'-C2'-C1'	3.16	105.74	100.98
48	FD	502	GDP	C3'-C2'-C1'	3.16	105.74	100.98
46	HA	501	GTP	PB-O3B-PG	-3.16	121.98	132.83
46	WK	501	GTP	PA-O3A-PB	-3.16	121.98	132.83
46	EG	501	GTP	C5-C6-N1	3.16	119.53	113.95
46	PE	501	GTP	PA-O3A-PB	-3.16	121.98	132.83
46	VG	501	GTP	PA-O3A-PB	-3.16	121.98	132.83
48	NL	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
46	SG	501	GTP	C5-C6-N1	3.16	119.53	113.95
48	ML	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
46	HK	501	GTP	C3'-C2'-C1'	3.16	105.73	100.98
46	HG	501	GTP	C5-C6-N1	3.16	119.53	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	HJ	501	GDP	PA-O3A-PB	-3.16	121.99	132.83
46	SK	501	GTP	C5-C6-N1	3.16	119.53	113.95
48	NJ	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
46	UE	501	GTP	C5-C6-N1	3.16	119.52	113.95
48	EF	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
46	SE	501	GTP	C5-C6-N1	3.16	119.52	113.95
46	WK	501	GTP	PB-O3B-PG	-3.15	122.00	132.83
48	AN	501	GDP	C3'-C2'-C1'	3.15	105.73	100.98
46	NM	501	GTP	C5-C6-N1	3.15	119.52	113.95
48	CF	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
46	SA	501	GTP	C5-C6-N1	3.15	119.52	113.95
46	QK	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
46	DA	501	GTP	PA-O3A-PB	-3.15	122.02	132.83
48	FB	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
46	UC	501	GTP	PB-O3B-PG	-3.15	122.03	132.83
48	AD	501	GDP	C3'-C2'-C1'	3.14	105.71	100.98
46	QA	501	GTP	C5-C6-N1	3.14	119.50	113.95
46	CI	501	GTP	C3'-C2'-C1'	3.14	105.70	100.98
48	OJ	501	GDP	C3'-C2'-C1'	3.13	105.70	100.98
46	RM	501	GTP	C5-C6-N1	3.13	119.48	113.95
46	WC	501	GTP	C3'-C2'-C1'	3.13	105.69	100.98
46	QA	501	GTP	C3'-C2'-C1'	3.13	105.69	100.98
48	OD	502	GDP	C3'-C2'-C1'	3.13	105.69	100.98
46	TE	501	GTP	C2-N1-C6	-3.13	119.34	125.10
46	KM	501	GTP	C5-C6-N1	3.13	119.47	113.95
46	FG	501	GTP	PA-O3A-PB	-3.13	122.10	132.83
48	LL	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
46	EA	501	GTP	PA-O3A-PB	-3.12	122.11	132.83
46	HM	501	GTP	PA-O3A-PB	-3.12	122.12	132.83
48	RH	501	GDP	C3'-C2'-C1'	3.12	105.67	100.98
46	IG	501	GTP	C5-C6-N1	3.12	119.45	113.95
46	HG	501	GTP	C3'-C2'-C1'	3.12	105.67	100.98
48	OF	501	GDP	C3'-C2'-C1'	3.12	105.67	100.98
48	HB	501	GDP	C3'-C2'-C1'	3.11	105.67	100.98
48	NN	501	GDP	C3'-C2'-C1'	3.11	105.67	100.98
48	JB	501	GDP	C3'-C2'-C1'	3.11	105.66	100.98
46	SI	501	GTP	PB-O3B-PG	-3.11	122.16	132.83
46	PA	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
46	OG	501	GTP	C8-N7-C5	3.11	108.91	102.99
46	NA	501	GTP	C5-C6-N1	3.11	119.44	113.95
46	BG	501	GTP	C3'-C2'-C1'	3.10	105.65	100.98
48	KN	501	GDP	C3'-C2'-C1'	3.10	105.65	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	WG	501	GTP	C8-N7-C5	3.10	108.90	102.99
46	CM	501	GTP	C5-C6-N1	3.10	119.43	113.95
46	MG	501	GTP	C3'-C2'-C1'	3.10	105.64	100.98
48	KJ	502	GDP	C3'-C2'-C1'	3.10	105.64	100.98
48	EL	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
46	NE	501	GTP	C8-N7-C5	3.10	108.89	102.99
48	IH	502	GDP	C3'-C2'-C1'	3.09	105.63	100.98
46	OL	501	GTP	C8-N7-C5	3.09	108.88	102.99
46	JE	501	GTP	C3'-C2'-C1'	3.09	105.63	100.98
46	EA	501	GTP	PB-O3B-PG	-3.09	122.24	132.83
46	BM	501	GTP	PB-O3B-PG	-3.08	122.25	132.83
48	JF	501	GDP	C3'-C2'-C1'	3.08	105.62	100.98
46	VG	501	GTP	C8-N7-C5	3.08	108.85	102.99
46	CA	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
46	UM	501	GTP	C2-N1-C6	-3.08	119.43	125.10
46	GE	501	GTP	PA-O3A-PB	-3.08	122.27	132.83
46	QM	501	GTP	C8-N7-C5	3.08	108.85	102.99
46	WM	501	GTP	PB-O3B-PG	-3.07	122.28	132.83
46	TK	501	GTP	C5-C6-N1	3.07	119.38	113.95
48	BD	502	GDP	C3'-C2'-C1'	3.07	105.60	100.98
46	OM	501	GTP	C2-N1-C6	-3.07	119.44	125.10
46	TE	501	GTP	PA-O3A-PB	-3.07	122.29	132.83
46	BC	501	GTP	C2-N1-C6	-3.07	119.44	125.10
46	WC	501	GTP	C2-N1-C6	-3.07	119.44	125.10
46	AA	501	GTP	C8-N7-C5	3.07	108.84	102.99
46	AC	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
46	VA	501	GTP	PB-O3B-PG	-3.07	122.30	132.83
46	OC	501	GTP	C8-N7-C5	3.07	108.83	102.99
46	UI	501	GTP	C5-C6-N1	3.07	119.37	113.95
46	HC	501	GTP	C3'-C2'-C1'	3.06	105.59	100.98
48	QB	501	GDP	C3'-C2'-C1'	3.06	105.59	100.98
46	PG	501	GTP	C8-N7-C5	3.06	108.82	102.99
46	OC	501	GTP	C2-N1-C6	-3.06	119.46	125.10
46	WG	501	GTP	C2-N1-C6	-3.06	119.46	125.10
46	VK	501	GTP	C5-C6-N1	3.06	119.36	113.95
46	DE	501	GTP	PA-O3A-PB	-3.06	122.32	132.83
48	CH	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
48	KB	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
48	VF	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
46	QG	501	GTP	C8-N7-C5	3.06	108.82	102.99
46	KK	501	GTP	C3'-C2'-C1'	3.06	105.58	100.98
46	HC	501	GTP	C2-N1-C6	-3.06	119.47	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	GL	501	GTP	C8-N7-C5	3.06	108.81	102.99
46	QI	501	GTP	C2-N1-C6	-3.05	119.47	125.10
46	ME	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
46	BC	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
46	CE	501	GTP	PB-O3B-PG	-3.05	122.36	132.83
46	RI	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
46	LI	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
48	BJ	502	GDP	C3'-C2'-C1'	3.05	105.57	100.98
46	IA	501	GTP	C8-N7-C5	3.05	108.80	102.99
46	BA	501	GTP	C8-N7-C5	3.05	108.79	102.99
46	TC	501	GTP	C3'-C2'-C1'	3.05	105.56	100.98
46	KC	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
46	DM	501	GTP	C8-N7-C5	3.04	108.79	102.99
46	OI	501	GTP	C8-N7-C5	3.04	108.79	102.99
46	TG	501	GTP	C8-N7-C5	3.04	108.79	102.99
46	RE	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
48	RD	501	GDP	C3'-C2'-C1'	3.04	105.56	100.98
46	PE	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
46	OM	501	GTP	C8-N7-C5	3.04	108.78	102.99
46	JA	501	GTP	C2-N1-C6	-3.04	119.50	125.10
46	PC	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
46	TC	501	GTP	PB-O3B-PG	-3.04	122.41	132.83
46	JC	501	GTP	C8-N7-C5	3.03	108.77	102.99
46	WM	501	GTP	C8-N7-C5	3.03	108.77	102.99
46	JC	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
46	QI	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
46	UK	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
48	MD	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
46	SK	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
46	VC	501	GTP	C8-N7-C5	3.03	108.76	102.99
48	WH	501	GDP	C3'-C2'-C1'	3.03	105.53	100.98
46	IM	501	GTP	C8-N7-C5	3.03	108.75	102.99
46	KG	501	GTP	C8-N7-C5	3.03	108.75	102.99
46	LC	501	GTP	C8-N7-C5	3.03	108.75	102.99
46	BK	501	GTP	C8-N7-C5	3.02	108.75	102.99
46	BE	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
46	TA	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
46	PA	501	GTP	C5-C6-N1	3.02	119.29	113.95
46	UE	501	GTP	C8-N7-C5	3.02	108.75	102.99
46	AK	501	GTP	C2-N1-C6	-3.02	119.53	125.10
46	VI	501	GTP	C8-N7-C5	3.02	108.75	102.99
46	GB	501	GTP	C5-C6-N1	3.02	119.29	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	EA	501	GTP	C8-N7-C5	3.02	108.75	102.99
46	BI	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
46	BI	501	GTP	PB-O3B-PG	-3.02	122.46	132.83
46	HE	501	GTP	C8-N7-C5	3.02	108.75	102.99
46	AI	501	GTP	C8-N7-C5	3.02	108.74	102.99
46	BI	501	GTP	C8-N7-C5	3.02	108.74	102.99
46	UG	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
48	AL	502	GDP	C3'-C2'-C1'	3.02	105.52	100.98
46	WC	501	GTP	C8-N7-C5	3.02	108.74	102.99
46	QG	501	GTP	C2-N1-C6	-3.02	119.54	125.10
46	FC	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
46	TK	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
46	AK	501	GTP	C8-N7-C5	3.02	108.74	102.99
46	DA	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
46	QK	501	GTP	C8-N7-C5	3.02	108.73	102.99
46	ID	501	GTP	C8-N7-C5	3.01	108.73	102.99
46	LK	501	GTP	C2-N1-C6	-3.01	119.55	125.10
46	VE	501	GTP	C2-N1-C6	-3.01	119.55	125.10
46	AM	501	GTP	C3'-C2'-C1'	3.01	105.52	100.98
46	LK	501	GTP	C3'-C2'-C1'	3.01	105.52	100.98
46	MK	501	GTP	C8-N7-C5	3.01	108.72	102.99
46	CM	501	GTP	C3'-C2'-C1'	3.01	105.51	100.98
46	GM	501	GTP	C3'-C2'-C1'	3.01	105.51	100.98
46	EC	501	GTP	C3'-C2'-C1'	3.01	105.51	100.98
46	BE	501	GTP	C8-N7-C5	3.01	108.72	102.99
46	GE	501	GTP	C8-N7-C5	3.01	108.72	102.99
48	CB	501	GDP	C8-N7-C5	3.01	108.72	102.99
46	IE	501	GTP	C2-N1-C6	-3.01	119.56	125.10
46	TA	501	GTP	PA-O3A-PB	-3.01	122.51	132.83
46	QE	501	GTP	C2-N1-C6	-3.01	119.56	125.10
46	SE	501	GTP	C3'-C2'-C1'	3.01	105.50	100.98
46	LG	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
46	SC	501	GTP	C8-N7-C5	3.00	108.71	102.99
48	GB	502	GDP	C3'-C2'-C1'	3.00	105.50	100.98
46	DA	501	GTP	C8-N7-C5	3.00	108.71	102.99
46	MI	501	GTP	C8-N7-C5	3.00	108.70	102.99
46	OA	501	GTP	C8-N7-C5	3.00	108.70	102.99
46	OA	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
46	VA	501	GTP	PA-O3A-PB	-3.00	122.53	132.83
46	JI	501	GTP	C2-N1-C6	-3.00	119.58	125.10
46	CC	501	GTP	C2-N1-C6	-3.00	119.58	125.10
46	QA	501	GTP	PA-O3A-PB	-3.00	122.54	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	PK	501	GTP	C2-N1-C6	-3.00	119.58	125.10
46	CE	501	GTP	C2-N1-C6	-3.00	119.58	125.10
46	VA	501	GTP	C2-N1-C6	-3.00	119.58	125.10
46	WA	501	GTP	C8-N7-C5	3.00	108.70	102.99
46	WK	501	GTP	C8-N7-C5	3.00	108.70	102.99
46	RC	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
46	BG	501	GTP	C8-N7-C5	2.99	108.69	102.99
46	VK	501	GTP	C8-N7-C5	2.99	108.69	102.99
46	MA	501	GTP	C8-N7-C5	2.99	108.69	102.99
46	II	501	GTP	C3'-C2'-C1'	2.99	105.49	100.98
46	FK	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	FM	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	AG	501	GTP	C8-N7-C5	2.99	108.69	102.99
48	OH	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
46	TA	501	GTP	C5-C6-N1	2.99	119.23	113.95
46	UK	501	GTP	C8-N7-C5	2.99	108.69	102.99
46	VM	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	RA	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	BI	501	GTP	C2-N1-C6	-2.99	119.59	125.10
46	BA	501	GTP	PA-O3A-PB	-2.99	122.57	132.83
46	BA	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	AC	501	GTP	C8-N7-C5	2.99	108.68	102.99
46	CG	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
46	BC	501	GTP	C8-N7-C5	2.99	108.68	102.99
46	SA	501	GTP	C8-N7-C5	2.99	108.68	102.99
46	CE	501	GTP	C8-N7-C5	2.99	108.68	102.99
46	NK	501	GTP	C8-N7-C5	2.99	108.68	102.99
46	SI	501	GTP	PA-O3A-PB	-2.98	122.58	132.83
48	LJ	501	GDP	C3'-C2'-C1'	2.98	105.47	100.98
46	LK	501	GTP	C8-N7-C5	2.98	108.67	102.99
46	VG	501	GTP	C2-N1-C6	-2.98	119.61	125.10
46	JK	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
46	TM	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
46	IE	501	GTP	C8-N7-C5	2.98	108.67	102.99
46	UA	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
46	KE	501	GTP	C2-N1-C6	-2.98	119.61	125.10
46	UG	501	GTP	C8-N7-C5	2.98	108.67	102.99
46	UC	501	GTP	PA-O3A-PB	-2.98	122.60	132.83
46	JC	501	GTP	C2-N1-C6	-2.98	119.61	125.10
46	EC	501	GTP	C8-N7-C5	2.98	108.66	102.99
46	JM	501	GTP	C8-N7-C5	2.98	108.66	102.99
46	JA	501	GTP	C3'-C2'-C1'	2.98	105.46	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	LF	501	GDP	C3'-C2'-C1'	2.98	105.46	100.98
46	JE	501	GTP	C2-N1-C6	-2.98	119.62	125.10
46	ME	501	GTP	C8-N7-C5	2.98	108.66	102.99
46	LB	501	GTP	C2-N1-C6	-2.98	119.62	125.10
46	HA	501	GTP	C2-N1-C6	-2.97	119.62	125.10
46	OL	501	GTP	C2-N1-C6	-2.97	119.62	125.10
46	GG	501	GTP	C8-N7-C5	2.97	108.65	102.99
46	JA	501	GTP	C8-N7-C5	2.97	108.65	102.99
46	RI	501	GTP	C2-N1-C6	-2.97	119.62	125.10
46	VA	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
46	KM	501	GTP	C8-N7-C5	2.97	108.65	102.99
46	GM	501	GTP	C2-N1-C6	-2.97	119.63	125.10
48	HH	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
46	NC	501	GTP	C8-N7-C5	2.97	108.65	102.99
46	NG	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	AM	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	LB	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
46	VA	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	CC	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	NM	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	JI	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
46	FC	501	GTP	C2-N1-C6	-2.97	119.64	125.10
46	PI	501	GTP	C2-N1-C6	-2.97	119.64	125.10
46	WE	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	UG	501	GTP	PA-O3A-PB	-2.97	122.65	132.83
46	PK	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
46	PM	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
46	PM	501	GTP	C8-N7-C5	2.97	108.64	102.99
46	WI	501	GTP	C8-N7-C5	2.96	108.64	102.99
46	IK	501	GTP	C3'-C2'-C1'	2.96	105.44	100.98
46	NI	501	GTP	C8-N7-C5	2.96	108.64	102.99
46	UG	501	GTP	C2-N1-C6	-2.96	119.64	125.10
46	EA	501	GTP	C3'-C2'-C1'	2.96	105.44	100.98
46	NE	501	GTP	C2-N1-C6	-2.96	119.64	125.10
46	SM	501	GTP	C8-N7-C5	2.96	108.63	102.99
46	EK	501	GTP	C3'-C2'-C1'	2.96	105.44	100.98
46	GD	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	UC	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	LB	501	GTP	C8-N7-C5	2.96	108.63	102.99
46	JM	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
46	UE	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
46	LE	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	HN	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
46	HE	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	GB	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
46	AC	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	QK	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	VG	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
46	FE	501	GTP	C8-N7-C5	2.96	108.62	102.99
46	JK	501	GTP	C8-N7-C5	2.96	108.62	102.99
46	WI	501	GTP	C2-N1-C6	-2.96	119.65	125.10
46	SI	501	GTP	C8-N7-C5	2.96	108.62	102.99
46	OE	501	GTP	C8-N7-C5	2.96	108.62	102.99
48	HF	502	GDP	C3'-C2'-C1'	2.95	105.43	100.98
46	TC	501	GTP	C2-N1-C6	-2.95	119.66	125.10
46	PA	501	GTP	C8-N7-C5	2.95	108.62	102.99
46	CM	501	GTP	C8-N7-C5	2.95	108.61	102.99
46	NI	501	GTP	C2-N1-C6	-2.95	119.66	125.10
46	WA	501	GTP	C2-N1-C6	-2.95	119.66	125.10
46	UE	501	GTP	PA-O3A-PB	-2.95	122.70	132.83
46	CC	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
48	VJ	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
46	EC	501	GTP	C2-N1-C6	-2.95	119.66	125.10
46	EK	501	GTP	C8-N7-C5	2.95	108.61	102.99
46	BM	501	GTP	C2-N1-C6	-2.95	119.66	125.10
46	DE	501	GTP	C8-N7-C5	2.95	108.61	102.99
46	UC	501	GTP	C8-N7-C5	2.95	108.61	102.99
46	TM	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	DB	502	GTP	C8-N7-C5	2.95	108.61	102.99
46	IA	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	VI	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	MC	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
46	RC	501	GTP	PA-O3A-PB	-2.95	122.71	132.83
46	RK	501	GTP	C8-N7-C5	2.95	108.60	102.99
46	CK	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
46	CI	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	GI	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	NA	501	GTP	C3'-C2'-C1'	2.95	105.41	100.98
46	HC	501	GTP	C8-N7-C5	2.95	108.60	102.99
46	KA	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	WM	501	GTP	C2-N1-C6	-2.95	119.67	125.10
46	KE	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
46	IK	501	GTP	C2-N1-C6	-2.94	119.68	125.10
46	MG	501	GTP	C8-N7-C5	2.94	108.60	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	HI	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
46	WE	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
46	CG	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	FK	501	GTP	C2-N1-C6	-2.94	119.68	125.10
46	CK	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	FA	501	GTP	C2-N1-C6	-2.94	119.68	125.10
46	SE	501	GTP	C2-N1-C6	-2.94	119.68	125.10
46	PK	501	GTP	PA-O3A-PB	-2.94	122.73	132.83
46	BG	501	GTP	C2-N1-C6	-2.94	119.68	125.10
46	JE	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	RG	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	FA	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	KA	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	OE	501	GTP	C2-N1-C6	-2.94	119.69	125.10
46	RA	501	GTP	C2-N1-C6	-2.94	119.69	125.10
46	EM	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	KC	501	GTP	C8-N7-C5	2.94	108.59	102.99
46	KM	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
46	UI	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
46	RM	501	GTP	C2-N1-C6	-2.94	119.69	125.10
46	II	501	GTP	C8-N7-C5	2.94	108.58	102.99
46	BM	501	GTP	C8-N7-C5	2.93	108.58	102.99
46	CA	501	GTP	C8-N7-C5	2.93	108.58	102.99
46	RE	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	JK	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	OI	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	JI	501	GTP	C8-N7-C5	2.93	108.57	102.99
46	QC	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	BM	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
48	LD	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
46	KJ	501	GTP	C8-N7-C5	2.93	108.57	102.99
46	MA	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	AI	501	GTP	C2-N1-C6	-2.93	119.71	125.10
46	RK	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
46	LM	501	GTP	C2-N1-C6	-2.93	119.71	125.10
46	KE	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	GG	501	GTP	C2-N1-C6	-2.92	119.71	125.10
46	TE	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	MA	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
46	KG	501	GTP	C2-N1-C6	-2.92	119.71	125.10
46	EK	501	GTP	C2-N1-C6	-2.92	119.71	125.10
46	FE	501	GTP	C2-N1-C6	-2.92	119.71	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	IG	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
46	VE	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	DK	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	TI	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
46	LE	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	QM	501	GTP	PB-O3B-PG	-2.92	122.80	132.83
46	BE	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	JG	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	VM	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	KK	501	GTP	C8-N7-C5	2.92	108.56	102.99
46	LC	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	GM	501	GTP	C8-N7-C5	2.92	108.55	102.99
46	QC	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
46	MC	501	GTP	C8-N7-C5	2.92	108.55	102.99
46	II	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	MK	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	DE	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
46	FG	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
46	SA	501	GTP	PB-O3B-PG	-2.92	122.81	132.83
46	GE	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	MM	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	WE	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	ID	501	GTP	C2-N1-C6	-2.92	119.72	125.10
46	EG	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
46	HK	501	GTP	C2-N1-C6	-2.92	119.73	125.10
46	RK	501	GTP	C2-N1-C6	-2.92	119.73	125.10
46	DG	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
46	HM	501	GTP	C2-N1-C6	-2.92	119.73	125.10
46	QA	501	GTP	C8-N7-C5	2.92	108.55	102.99
46	ME	501	GTP	C2-N1-C6	-2.91	119.73	125.10
46	VM	501	GTP	C8-N7-C5	2.91	108.54	102.99
46	AE	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	QM	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	SG	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	OG	501	GTP	C2-N1-C6	-2.91	119.73	125.10
46	RG	501	GTP	C2-N1-C6	-2.91	119.74	125.10
46	RC	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	DI	501	GTP	C2-N1-C6	-2.91	119.74	125.10
46	AI	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	GG	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	RA	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	MG	501	GTP	C2-N1-C6	-2.91	119.74	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	PC	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	TK	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	AA	501	GTP	C2-N1-C6	-2.91	119.74	125.10
46	AG	501	GTP	C2-N1-C6	-2.91	119.74	125.10
46	DE	501	GTP	C2-N1-C6	-2.91	119.74	125.10
46	FI	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	KA	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
46	UA	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	FG	501	GTP	C8-N7-C5	2.91	108.53	102.99
46	LE	501	GTP	C2-N1-C6	-2.91	119.75	125.10
46	UM	501	GTP	C8-N7-C5	2.90	108.52	102.99
46	BA	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	IK	501	GTP	C8-N7-C5	2.90	108.52	102.99
46	LG	501	GTP	C8-N7-C5	2.90	108.52	102.99
46	HA	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
46	JM	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	AM	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	FM	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	SG	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	LI	501	GTP	C8-N7-C5	2.90	108.52	102.99
46	PM	501	GTP	PA-O3A-PB	-2.90	122.87	132.83
46	CA	501	GTP	C2-N1-C6	-2.90	119.75	125.10
46	FI	501	GTP	C8-N7-C5	2.90	108.52	102.99
46	AE	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	CK	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	VC	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	DI	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
46	OI	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
46	PI	501	GTP	C8-N7-C5	2.90	108.51	102.99
46	DG	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	NC	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	SK	501	GTP	C8-N7-C5	2.90	108.51	102.99
46	EI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	FA	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
46	FG	501	GTP	C2-N1-C6	-2.90	119.77	125.10
46	GD	501	GTP	C8-N7-C5	2.90	108.51	102.99
46	EE	501	GTP	C8-N7-C5	2.89	108.50	102.99
46	UI	501	GTP	C8-N7-C5	2.89	108.50	102.99
46	UA	501	GTP	C2-N1-C6	-2.89	119.77	125.10
46	UK	501	GTP	C2-N1-C6	-2.89	119.77	125.10
46	PK	501	GTP	C8-N7-C5	2.89	108.50	102.99
46	LG	501	GTP	C2-N1-C6	-2.89	119.77	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	QA	501	GTP	C2-N1-C6	-2.89	119.77	125.10
46	KC	501	GTP	C2-N1-C6	-2.89	119.77	125.10
46	TM	501	GTP	C8-N7-C5	2.89	108.50	102.99
46	EE	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	EG	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	WA	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
46	SK	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	IM	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	VK	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
46	HK	501	GTP	C8-N7-C5	2.89	108.49	102.99
46	PG	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	TI	501	GTP	C2-N1-C6	-2.89	119.78	125.10
46	HG	501	GTP	C8-N7-C5	2.89	108.49	102.99
46	PE	501	GTP	C8-N7-C5	2.89	108.49	102.99
46	JG	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
46	VC	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
46	LC	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
46	IA	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
46	KJ	501	GTP	C3'-C2'-C1'	2.88	105.32	100.98
46	RC	501	GTP	C2-N1-C6	-2.88	119.79	125.10
46	GL	501	GTP	C3'-C2'-C1'	2.88	105.32	100.98
46	DB	502	GTP	C2-N1-C6	-2.88	119.79	125.10
46	EG	501	GTP	C8-N7-C5	2.88	108.48	102.99
46	TI	501	GTP	C8-N7-C5	2.88	108.48	102.99
46	QM	501	GTP	PA-O3A-PB	-2.88	122.94	132.83
46	MI	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
46	KJ	501	GTP	C2-N1-C6	-2.88	119.80	125.10
46	QM	501	GTP	C2-N1-C6	-2.88	119.80	125.10
46	OE	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
46	EE	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
48	BH	502	GDP	C3'-C2'-C1'	2.88	105.31	100.98
46	CI	501	GTP	C8-N7-C5	2.88	108.47	102.99
46	DI	501	GTP	C8-N7-C5	2.88	108.47	102.99
46	SM	501	GTP	C2-N1-C6	-2.88	119.80	125.10
46	IG	501	GTP	C2-N1-C6	-2.87	119.81	125.10
46	LM	501	GTP	C8-N7-C5	2.87	108.46	102.99
46	CE	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
48	FN	501	GDP	C3'-C2'-C1'	2.87	105.30	100.98
46	IG	501	GTP	C8-N7-C5	2.87	108.46	102.99
46	DA	501	GTP	C2-N1-C6	-2.87	119.81	125.10
46	FI	501	GTP	C2-N1-C6	-2.87	119.81	125.10
46	NA	501	GTP	C2-N1-C6	-2.87	119.81	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	PE	501	GTP	C2-N1-C6	-2.87	119.81	125.10
46	VK	501	GTP	PA-O3A-PB	-2.87	122.98	132.83
46	SE	501	GTP	C8-N7-C5	2.87	108.45	102.99
46	TI	501	GTP	PA-O3A-PB	-2.87	122.98	132.83
46	GE	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
46	NG	501	GTP	C2-N1-C6	-2.87	119.82	125.10
46	PC	501	GTP	C2-N1-C6	-2.87	119.82	125.10
46	QE	501	GTP	C8-N7-C5	2.87	108.45	102.99
46	AA	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
46	MM	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
46	HA	501	GTP	C8-N7-C5	2.87	108.45	102.99
46	MM	501	GTP	C8-N7-C5	2.87	108.45	102.99
46	DG	501	GTP	C8-N7-C5	2.87	108.45	102.99
46	CG	501	GTP	C2-N1-C6	-2.87	119.82	125.10
46	HG	501	GTP	C2-N1-C6	-2.86	119.82	125.10
46	RI	501	GTP	C8-N7-C5	2.86	108.45	102.99
46	GI	501	GTP	C8-N7-C5	2.86	108.44	102.99
46	SM	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
46	AE	501	GTP	C8-N7-C5	2.86	108.44	102.99
46	GB	501	GTP	C2-N1-C6	-2.86	119.83	125.10
46	TA	501	GTP	C2-N1-C6	-2.86	119.83	125.10
46	GI	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
46	KK	501	GTP	C2-N1-C6	-2.86	119.84	125.10
46	MC	501	GTP	C2-N1-C6	-2.86	119.84	125.10
46	GD	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
46	LI	501	GTP	C2-N1-C6	-2.86	119.84	125.10
46	TG	501	GTP	C2-N1-C6	-2.86	119.84	125.10
46	JG	501	GTP	C8-N7-C5	2.86	108.43	102.99
46	GL	501	GTP	C2-N1-C6	-2.85	119.84	125.10
46	WK	501	GTP	C2-N1-C6	-2.85	119.84	125.10
46	SC	501	GTP	C2-N1-C6	-2.85	119.84	125.10
46	RG	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
46	PG	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
46	FC	501	GTP	C8-N7-C5	2.85	108.42	102.99
46	SI	501	GTP	C2-N1-C6	-2.85	119.85	125.10
46	DK	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
46	LM	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
46	FK	501	GTP	C8-N7-C5	2.85	108.42	102.99
46	RE	501	GTP	C8-N7-C5	2.85	108.42	102.99
46	WI	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
46	OA	501	GTP	C2-N1-C6	-2.85	119.85	125.10
46	PM	501	GTP	C2-N1-C6	-2.85	119.85	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	EI	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
46	TK	501	GTP	C2-N1-C6	-2.85	119.86	125.10
46	FE	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
46	VK	501	GTP	C2-N1-C6	-2.84	119.86	125.10
46	DK	501	GTP	C2-N1-C6	-2.84	119.86	125.10
46	DM	501	GTP	C2-N1-C6	-2.84	119.86	125.10
46	QC	501	GTP	C8-N7-C5	2.84	108.40	102.99
46	EI	501	GTP	C8-N7-C5	2.84	108.40	102.99
46	EM	501	GTP	C2-N1-C6	-2.84	119.88	125.10
46	NK	501	GTP	C2-N1-C6	-2.84	119.88	125.10
46	KG	501	GTP	C3'-C2'-C1'	2.83	105.25	100.98
46	KM	501	GTP	C2-N1-C6	-2.83	119.88	125.10
46	GB	501	GTP	C8-N7-C5	2.83	108.38	102.99
46	HM	501	GTP	C8-N7-C5	2.83	108.38	102.99
46	IE	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
46	PI	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
46	UE	501	GTP	C2-N1-C6	-2.83	119.89	125.10
46	TC	501	GTP	C8-N7-C5	2.82	108.37	102.99
46	HA	501	GTP	PA-O3A-PB	-2.82	123.14	132.83
46	UC	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
46	EA	501	GTP	C2-N1-C6	-2.82	119.91	125.10
46	NA	501	GTP	C8-N7-C5	2.82	108.36	102.99
46	SG	501	GTP	C8-N7-C5	2.82	108.36	102.99
46	OC	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
46	SA	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
48	TJ	501	GDP	C3'-C2'-C1'	2.81	105.21	100.98
46	MI	501	GTP	C2-N1-C6	-2.81	119.93	125.10
46	IM	501	GTP	PB-O3B-PG	-2.80	123.20	132.83
46	SA	501	GTP	C2-N1-C6	-2.80	119.94	125.10
46	VE	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
46	NM	501	GTP	C2-N1-C6	-2.80	119.94	125.10
48	QL	501	GDP	C3'-C2'-C1'	2.80	105.19	100.98
46	VM	501	GTP	PA-O3A-PB	-2.80	123.23	132.83
48	MB	501	GDP	PA-O3A-PB	-2.79	123.26	132.83
46	PA	501	GTP	C2-N1-C6	-2.79	119.96	125.10
46	AE	501	GTP	PA-O3A-PB	-2.79	123.26	132.83
46	UI	501	GTP	C2-N1-C6	-2.79	119.97	125.10
46	SC	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98
46	WM	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
46	HM	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
48	JJ	501	GDP	C3'-C2'-C1'	2.77	105.16	100.98
46	NG	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	FM	501	GTP	C8-N7-C5	2.77	108.27	102.99
46	SI	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98
46	AG	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
46	DB	502	GTP	C3'-C2'-C1'	2.76	105.14	100.98
46	TA	501	GTP	C8-N7-C5	2.75	108.24	102.99
46	ID	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
46	QI	501	GTP	C8-N7-C5	2.75	108.23	102.99
46	AK	501	GTP	C3'-C2'-C1'	2.75	105.11	100.98
48	UH	501	GDP	C3'-C2'-C1'	2.75	105.11	100.98
46	NK	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
46	CM	501	GTP	C2-N1-C6	-2.74	120.06	125.10
46	BK	501	GTP	C2-N1-C6	-2.73	120.06	125.10
46	MK	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
46	OL	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
48	RF	501	GDP	C3'-C2'-C1'	2.73	105.08	100.98
46	NE	501	GTP	C3'-C2'-C1'	2.72	105.08	100.98
46	IM	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
46	WK	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
46	FE	501	GTP	PA-O3A-PB	-2.71	123.54	132.83
46	OG	501	GTP	C3'-C2'-C1'	2.71	105.05	100.98
46	VI	501	GTP	C3'-C2'-C1'	2.70	105.05	100.98
48	PL	501	GDP	C3'-C2'-C1'	2.70	105.04	100.98
46	NC	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
46	RM	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
46	TG	501	GTP	C3'-C2'-C1'	2.68	105.01	100.98
46	NM	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
46	HI	501	GTP	C2-N1-C6	-2.66	120.19	125.10
46	QG	501	GTP	C3'-C2'-C1'	2.64	104.96	100.98
46	IM	501	GTP	PA-O3A-PB	-2.64	123.75	132.83
46	BK	501	GTP	C3'-C2'-C1'	2.64	104.95	100.98
46	RM	501	GTP	C8-N7-C5	2.64	108.02	102.99
46	GL	501	GTP	PA-O3A-PB	-2.63	123.81	132.83
48	TD	501	GDP	C3'-C2'-C1'	2.62	104.92	100.98
46	WG	501	GTP	PA-O3A-PB	-2.62	123.83	132.83
46	WG	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
46	DM	501	GTP	C3'-C2'-C1'	2.60	104.89	100.98
46	WG	501	GTP	PB-O3B-PG	-2.60	123.91	132.83
46	JG	501	GTP	PA-O3A-PB	-2.59	123.94	132.83
48	HD	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
46	NA	501	GTP	PA-O3A-PB	-2.57	124.00	132.83
46	VE	501	GTP	PA-O3A-PB	-2.55	124.06	132.83
46	HE	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	QG	501	GTP	PA-O3A-PB	-2.55	124.07	132.83
46	QI	501	GTP	O6-C6-C5	-2.55	119.39	124.37
46	TE	501	GTP	O6-C6-C5	-2.55	119.39	124.37
48	HD	501	GDP	C8-N7-C5	2.54	107.82	102.99
46	UI	501	GTP	PA-O3A-PB	-2.53	124.15	132.83
48	SH	501	GDP	C3'-C2'-C1'	2.53	104.78	100.98
46	TE	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
46	QG	501	GTP	PB-O3B-PG	-2.52	124.17	132.83
46	GI	501	GTP	O6-C6-C5	-2.52	119.45	124.37
46	FC	501	GTP	O6-C6-C5	-2.51	119.46	124.37
46	NI	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
48	VN	501	GDP	C5-C6-N1	2.50	118.36	113.95
48	UD	501	GDP	C5-C6-N1	2.48	118.33	113.95
48	TL	501	GDP	C8-N7-C5	2.48	107.71	102.99
48	UJ	501	GDP	C5-C6-N1	2.47	118.31	113.95
46	HA	501	GTP	O6-C6-C5	-2.46	119.56	124.37
48	TD	501	GDP	C5-C6-N1	2.46	118.30	113.95
48	HN	501	GDP	C8-N7-C5	2.45	107.66	102.99
48	OH	501	GDP	C8-N7-C5	2.45	107.66	102.99
48	HB	501	GDP	C5-C6-N1	2.44	118.26	113.95
48	BF	502	GDP	C5-C6-N1	2.44	118.26	113.95
48	BL	502	GDP	C5-C6-N1	2.43	118.25	113.95
46	TC	501	GTP	O6-C6-C5	-2.42	119.64	124.37
46	GB	501	GTP	O6-C6-C5	-2.42	119.64	124.37
48	HD	501	GDP	C5-C6-N1	2.42	118.23	113.95
46	HI	501	GTP	O6-C6-C5	-2.42	119.64	124.37
48	FJ	501	GDP	C5-C6-N1	2.42	118.22	113.95
48	GH	502	GDP	C5-C6-N1	2.42	118.22	113.95
46	VM	501	GTP	O6-C6-C5	-2.42	119.65	124.37
46	VA	501	GTP	O6-C6-C5	-2.41	119.66	124.37
48	FN	501	GDP	C8-N7-C5	2.41	107.58	102.99
48	LJ	501	GDP	C5-C6-N1	2.41	118.20	113.95
46	KE	501	GTP	O6-C6-C5	-2.40	119.68	124.37
48	SF	501	GDP	C5-C6-N1	2.39	118.18	113.95
46	NA	501	GTP	O6-C6-C5	-2.39	119.70	124.37
48	ED	501	GDP	C5-C6-N1	2.39	118.17	113.95
48	UH	501	GDP	C8-N7-C5	2.38	107.53	102.99
48	TN	501	GDP	C8-N7-C5	2.38	107.53	102.99
48	TL	501	GDP	C5-C6-N1	2.38	118.16	113.95
48	BJ	502	GDP	C5-C6-N1	2.38	118.16	113.95
48	BN	501	GDP	C8-N7-C5	2.38	107.52	102.99
48	GH	502	GDP	C8-N7-C5	2.38	107.52	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	VE	501	GTP	O6-C6-C5	-2.37	119.73	124.37
46	SG	501	GTP	O6-C6-C5	-2.37	119.74	124.37
48	ND	501	GDP	C8-N7-C5	2.37	107.51	102.99
48	TH	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	MG	501	GTP	O6-C6-C5	-2.37	119.74	124.37
48	WJ	502	GDP	C8-N7-C5	2.37	107.50	102.99
48	BH	502	GDP	C5-C6-N1	2.37	118.14	113.95
46	RG	501	GTP	O6-C6-C5	-2.37	119.75	124.37
48	SN	501	GDP	C8-N7-C5	2.37	107.50	102.99
46	MM	501	GTP	O6-C6-C5	-2.36	119.76	124.37
46	AK	501	GTP	O6-C6-C5	-2.36	119.76	124.37
46	SE	501	GTP	O6-C6-C5	-2.36	119.76	124.37
48	JH	501	GDP	C5-C6-N1	2.36	118.12	113.95
48	OJ	501	GDP	C8-N7-C5	2.36	107.49	102.99
48	GD	503	GDP	C8-N7-C5	2.36	107.48	102.99
48	IF	501	GDP	C3'-C2'-C1'	2.36	104.53	100.98
48	JH	501	GDP	C8-N7-C5	2.36	107.48	102.99
48	AD	501	GDP	C5-C6-N1	2.36	118.11	113.95
48	VB	502	GDP	C5-C6-N1	2.36	118.11	113.95
46	OC	501	GTP	O6-C6-C5	-2.36	119.77	124.37
48	VL	501	GDP	C5-C6-N1	2.36	118.11	113.95
46	RM	501	GTP	O6-C6-C5	-2.36	119.77	124.37
48	GN	501	GDP	C8-N7-C5	2.36	107.48	102.99
46	EE	501	GTP	O6-C6-C5	-2.36	119.77	124.37
48	WJ	502	GDP	C5-C6-N1	2.36	118.11	113.95
48	RF	501	GDP	C5-C6-N1	2.35	118.11	113.95
48	SL	501	GDP	C5-C6-N1	2.35	118.11	113.95
48	DB	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	FE	501	GTP	O6-C6-C5	-2.35	119.78	124.37
46	RE	501	GTP	O6-C6-C5	-2.35	119.78	124.37
48	AF	501	GDP	C5-C6-N1	2.35	118.10	113.95
48	UN	501	GDP	C8-N7-C5	2.35	107.47	102.99
48	QJ	501	GDP	C3'-C2'-C1'	2.35	104.52	100.98
48	EL	501	GDP	C8-N7-C5	2.35	107.47	102.99
48	OF	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	AC	501	GTP	O6-C6-C5	-2.35	119.79	124.37
48	DF	501	GDP	C8-N7-C5	2.35	107.46	102.99
48	UJ	501	GDP	C8-N7-C5	2.35	107.46	102.99
48	BN	501	GDP	C5-C6-N1	2.35	118.10	113.95
48	CJ	501	GDP	C8-N7-C5	2.35	107.46	102.99
48	SF	501	GDP	C8-N7-C5	2.35	107.46	102.99
46	HM	501	GTP	O6-C6-C5	-2.35	119.79	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	EI	501	GTP	O6-C6-C5	-2.35	119.79	124.37
46	EK	501	GTP	O6-C6-C5	-2.35	119.79	124.37
48	QJ	501	GDP	C5-C6-N1	2.35	118.09	113.95
48	CB	501	GDP	O3'-C3'-C2'	-2.34	104.24	111.82
48	OD	502	GDP	C5-C6-N1	2.34	118.09	113.95
48	CF	501	GDP	C5-C6-N1	2.34	118.09	113.95
46	AA	501	GTP	O6-C6-C5	-2.34	119.80	124.37
48	QB	501	GDP	C8-N7-C5	2.34	107.45	102.99
48	FB	501	GDP	C8-N7-C5	2.34	107.45	102.99
48	NN	501	GDP	C5-C6-N1	2.34	118.08	113.95
46	NG	501	GTP	O6-C6-C5	-2.34	119.80	124.37
48	BF	502	GDP	C8-N7-C5	2.34	107.44	102.99
48	OD	502	GDP	C8-N7-C5	2.34	107.44	102.99
46	LE	501	GTP	O6-C6-C5	-2.34	119.81	124.37
48	MN	502	GDP	C8-N7-C5	2.34	107.44	102.99
46	LM	501	GTP	O6-C6-C5	-2.34	119.81	124.37
46	DI	501	GTP	O6-C6-C5	-2.34	119.81	124.37
48	DF	501	GDP	C5-C6-N1	2.33	118.08	113.95
48	QJ	501	GDP	C8-N7-C5	2.33	107.44	102.99
48	RF	501	GDP	C8-N7-C5	2.33	107.44	102.99
46	BC	501	GTP	O6-C6-C5	-2.33	119.81	124.37
48	NF	501	GDP	C8-N7-C5	2.33	107.44	102.99
48	OL	502	GDP	C8-N7-C5	2.33	107.43	102.99
46	LG	501	GTP	O6-C6-C5	-2.33	119.82	124.37
46	MC	501	GTP	O6-C6-C5	-2.33	119.82	124.37
48	HL	502	GDP	C8-N7-C5	2.33	107.43	102.99
48	OB	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	GF	501	GDP	C5-C6-N1	2.33	118.07	113.95
48	FJ	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	PJ	501	GDP	C8-N7-C5	2.33	107.43	102.99
46	WA	501	GTP	O6-C6-C5	-2.33	119.82	124.37
48	BB	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	RN	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	LH	501	GDP	C5-C6-N1	2.33	118.07	113.95
48	DN	501	GDP	C5-C6-N1	2.33	118.06	113.95
48	QN	501	GDP	C5-C6-N1	2.33	118.06	113.95
46	JA	501	GTP	O6-C6-C5	-2.33	119.82	124.37
48	IN	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	WH	501	GDP	C8-N7-C5	2.33	107.43	102.99
48	WN	501	GDP	C5-C6-N1	2.33	118.06	113.95
48	HL	502	GDP	C5-C6-N1	2.33	118.06	113.95
48	AJ	501	GDP	C8-N7-C5	2.33	107.42	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	FK	501	GTP	O6-C6-C5	-2.33	119.83	124.37
48	TN	501	GDP	C5-C6-N1	2.33	118.06	113.95
48	UN	501	GDP	C5-C6-N1	2.33	118.06	113.95
48	OH	501	GDP	C5-C6-N1	2.33	118.06	113.95
48	CL	501	GDP	C8-N7-C5	2.32	107.42	102.99
48	KB	501	GDP	C8-N7-C5	2.32	107.42	102.99
48	NH	501	GDP	C5-C6-N1	2.32	118.06	113.95
48	EH	501	GDP	C8-N7-C5	2.32	107.42	102.99
48	UF	501	GDP	C8-N7-C5	2.32	107.42	102.99
48	DN	501	GDP	C8-N7-C5	2.32	107.41	102.99
48	LN	502	GDP	C5-C6-N1	2.32	118.05	113.95
48	BH	502	GDP	C8-N7-C5	2.32	107.41	102.99
48	TB	501	GDP	C8-N7-C5	2.32	107.41	102.99
48	AJ	501	GDP	C5-C6-N1	2.32	118.05	113.95
48	LL	501	GDP	C8-N7-C5	2.32	107.41	102.99
48	GL	502	GDP	C5-C6-N1	2.32	118.05	113.95
48	CN	501	GDP	C8-N7-C5	2.32	107.40	102.99
46	OL	501	GTP	PB-O3B-PG	-2.32	124.88	132.83
48	JJ	501	GDP	C8-N7-C5	2.32	107.40	102.99
48	AN	501	GDP	C8-N7-C5	2.31	107.40	102.99
48	QL	501	GDP	C8-N7-C5	2.31	107.40	102.99
46	CC	501	GTP	O6-C6-C5	-2.31	119.85	124.37
48	CN	501	GDP	C5-C6-N1	2.31	118.04	113.95
48	HF	502	GDP	C8-N7-C5	2.31	107.40	102.99
48	JL	501	GDP	C5-C6-N1	2.31	118.04	113.95
48	OJ	501	GDP	C5-C6-N1	2.31	118.04	113.95
48	IL	501	GDP	C8-N7-C5	2.31	107.40	102.99
48	OF	501	GDP	C5-C6-N1	2.31	118.04	113.95
48	PL	501	GDP	C8-N7-C5	2.31	107.40	102.99
48	NL	501	GDP	C5-C6-N1	2.31	118.04	113.95
46	KJ	501	GTP	O6-C6-C5	-2.31	119.86	124.37
48	IL	501	GDP	C5-C6-N1	2.31	118.03	113.95
48	AL	502	GDP	C8-N7-C5	2.31	107.39	102.99
48	RB	501	GDP	C8-N7-C5	2.31	107.39	102.99
48	NJ	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	VC	501	GTP	O6-C6-C5	-2.31	119.86	124.37
48	DJ	501	GDP	C5-C6-N1	2.31	118.03	113.95
48	KL	501	GDP	C5-C6-N1	2.31	118.03	113.95
48	OL	502	GDP	C5-C6-N1	2.31	118.03	113.95
48	IF	501	GDP	C8-N7-C5	2.31	107.39	102.99
48	AH	501	GDP	C5-C6-N1	2.31	118.03	113.95
48	LL	501	GDP	C5-C6-N1	2.31	118.03	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	JN	501	GDP	C8-N7-C5	2.31	107.39	102.99
48	KH	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	RI	501	GTP	O6-C6-C5	-2.31	119.86	124.37
46	NC	501	GTP	O6-C6-C5	-2.31	119.87	124.37
48	LF	501	GDP	C8-N7-C5	2.31	107.38	102.99
48	LN	502	GDP	C8-N7-C5	2.31	107.38	102.99
48	MD	501	GDP	C8-N7-C5	2.31	107.38	102.99
48	MF	502	GDP	C8-N7-C5	2.31	107.38	102.99
48	TH	501	GDP	C5-C6-N1	2.31	118.02	113.95
48	EN	501	GDP	C8-N7-C5	2.31	107.38	102.99
48	IJ	502	GDP	C8-N7-C5	2.31	107.38	102.99
48	GF	501	GDP	C8-N7-C5	2.30	107.38	102.99
48	CJ	501	GDP	C5-C6-N1	2.30	118.02	113.95
48	GN	501	GDP	C5-C6-N1	2.30	118.02	113.95
48	ML	501	GDP	C5-C6-N1	2.30	118.02	113.95
48	CF	501	GDP	C8-N7-C5	2.30	107.38	102.99
48	QN	501	GDP	C8-N7-C5	2.30	107.38	102.99
48	QL	501	GDP	C5-C6-N1	2.30	118.02	113.95
48	VF	501	GDP	C8-N7-C5	2.30	107.38	102.99
48	LH	501	GDP	C8-N7-C5	2.30	107.38	102.99
48	FD	502	GDP	C5-C6-N1	2.30	118.02	113.95
46	WE	501	GTP	O6-C6-C5	-2.30	119.88	124.37
48	MN	502	GDP	C5-C6-N1	2.30	118.02	113.95
48	WB	501	GDP	C5-C6-N1	2.30	118.02	113.95
48	BJ	502	GDP	C8-N7-C5	2.30	107.37	102.99
48	FF	502	GDP	C8-N7-C5	2.30	107.37	102.99
48	RH	501	GDP	C8-N7-C5	2.30	107.37	102.99
46	SI	501	GTP	O6-C6-C5	-2.30	119.88	124.37
48	EH	501	GDP	C5-C6-N1	2.30	118.01	113.95
46	PC	501	GTP	O6-C6-C5	-2.30	119.88	124.37
48	KJ	502	GDP	C5-C6-N1	2.30	118.01	113.95
46	UC	501	GTP	O6-C6-C5	-2.30	119.88	124.37
48	TF	501	GDP	C5-C6-N1	2.30	118.01	113.95
48	PJ	501	GDP	C5-C6-N1	2.30	118.01	113.95
48	MJ	502	GDP	C8-N7-C5	2.30	107.36	102.99
48	PB	501	GDP	C8-N7-C5	2.30	107.36	102.99
48	JD	501	GDP	C5-C6-N1	2.30	118.01	113.95
46	NK	501	GTP	O6-C6-C5	-2.30	119.89	124.37
48	RH	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	WD	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	KH	501	GDP	C8-N7-C5	2.29	107.36	102.99
48	BB	501	GDP	C5-C6-N1	2.29	118.00	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	IN	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	VJ	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	VD	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	DH	501	GDP	C8-N7-C5	2.29	107.36	102.99
48	CH	501	GDP	C8-N7-C5	2.29	107.36	102.99
46	GD	501	GTP	O6-C6-C5	-2.29	119.89	124.37
48	GD	503	GDP	C5-C6-N1	2.29	118.00	113.95
48	WB	501	GDP	C8-N7-C5	2.29	107.36	102.99
48	TB	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	HJ	501	GDP	C8-N7-C5	2.29	107.36	102.99
46	OM	501	GTP	O6-C6-C5	-2.29	119.90	124.37
48	SN	501	GDP	C5-C6-N1	2.29	118.00	113.95
48	ID	502	GDP	C8-N7-C5	2.29	107.35	102.99
48	QF	501	GDP	C5-C6-N1	2.29	117.99	113.95
48	MB	501	GDP	C8-N7-C5	2.29	107.35	102.99
48	VB	502	GDP	C8-N7-C5	2.29	107.35	102.99
48	EN	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	HE	501	GTP	O6-C6-C5	-2.29	119.91	124.37
46	AE	501	GTP	O6-C6-C5	-2.29	119.91	124.37
46	NI	501	GTP	O6-C6-C5	-2.29	119.91	124.37
48	ND	501	GDP	C5-C6-N1	2.29	117.99	113.95
48	NN	501	GDP	C8-N7-C5	2.28	107.34	102.99
46	FI	501	GTP	O6-C6-C5	-2.28	119.91	124.37
46	JM	501	GTP	O6-C6-C5	-2.28	119.91	124.37
46	MK	501	GTP	O6-C6-C5	-2.28	119.91	124.37
48	LJ	501	GDP	C8-N7-C5	2.28	107.34	102.99
48	GJ	502	GDP	C8-N7-C5	2.28	107.34	102.99
48	WF	501	GDP	C8-N7-C5	2.28	107.34	102.99
48	AH	501	GDP	C8-N7-C5	2.28	107.34	102.99
48	KL	501	GDP	C8-N7-C5	2.28	107.34	102.99
46	FG	501	GTP	O6-C6-C5	-2.28	119.92	124.37
48	CB	501	GDP	C2-N1-C6	-2.28	120.90	125.10
48	HH	501	GDP	C5-C6-N1	2.28	117.98	113.95
46	WI	501	GTP	O6-C6-C5	-2.28	119.92	124.37
46	KK	501	GTP	O6-C6-C5	-2.28	119.92	124.37
48	UL	501	GDP	C8-N7-C5	2.28	107.33	102.99
48	WD	501	GDP	C8-N7-C5	2.28	107.33	102.99
46	ID	501	GTP	O6-C6-C5	-2.28	119.92	124.37
46	LC	501	GTP	O6-C6-C5	-2.28	119.92	124.37
48	FD	502	GDP	C8-N7-C5	2.28	107.33	102.99
48	KN	501	GDP	C8-N7-C5	2.28	107.33	102.99
48	VN	501	GDP	C8-N7-C5	2.28	107.33	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	RK	501	GTP	O6-C6-C5	-2.28	119.92	124.37
48	CD	501	GDP	C8-N7-C5	2.28	107.33	102.99
48	JD	501	GDP	C8-N7-C5	2.28	107.33	102.99
46	IA	501	GTP	O6-C6-C5	-2.28	119.93	124.37
48	WL	501	GDP	C8-N7-C5	2.28	107.33	102.99
46	PK	501	GTP	O6-C6-C5	-2.28	119.93	124.37
48	DL	501	GDP	C8-N7-C5	2.28	107.33	102.99
46	VG	501	GTP	O6-C6-C5	-2.28	119.93	124.37
48	FB	501	GDP	C5-C6-N1	2.27	117.97	113.95
48	LF	501	GDP	C5-C6-N1	2.27	117.97	113.95
48	PD	502	GDP	C5-C6-N1	2.27	117.97	113.95
48	JF	501	GDP	C8-N7-C5	2.27	107.32	102.99
48	CL	501	GDP	C5-C6-N1	2.27	117.97	113.95
48	HF	502	GDP	C5-C6-N1	2.27	117.97	113.95
48	BL	502	GDP	C8-N7-C5	2.27	107.32	102.99
48	AD	501	GDP	C8-N7-C5	2.27	107.32	102.99
48	WN	501	GDP	C8-N7-C5	2.27	107.32	102.99
48	WL	501	GDP	C5-C6-N1	2.27	117.97	113.95
48	VH	501	GDP	C8-N7-C5	2.27	107.32	102.99
46	KA	501	GTP	O6-C6-C5	-2.27	119.94	124.37
48	CH	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	IH	502	GDP	C8-N7-C5	2.27	107.32	102.99
48	KD	501	GDP	C8-N7-C5	2.27	107.32	102.99
48	EJ	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	JB	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	VL	501	GDP	C8-N7-C5	2.27	107.31	102.99
48	RN	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	AB	502	GDP	C8-N7-C5	2.27	107.31	102.99
48	NJ	501	GDP	C8-N7-C5	2.27	107.31	102.99
48	AL	502	GDP	C5-C6-N1	2.27	117.96	113.95
48	SD	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	AN	501	GDP	C5-C6-N1	2.27	117.96	113.95
48	HH	501	GDP	C8-N7-C5	2.27	107.31	102.99
48	EL	501	GDP	C5-C6-N1	2.27	117.95	113.95
46	DK	501	GTP	O6-C6-C5	-2.27	119.94	124.37
46	FM	501	GTP	O6-C6-C5	-2.27	119.94	124.37
48	WF	501	GDP	C5-C6-N1	2.27	117.95	113.95
48	NL	501	GDP	C8-N7-C5	2.27	107.31	102.99
48	MJ	502	GDP	C5-C6-N1	2.27	117.95	113.95
48	NB	501	GDP	C5-C6-N1	2.27	117.95	113.95
48	AF	501	GDP	C8-N7-C5	2.26	107.31	102.99
48	OB	501	GDP	C5-C6-N1	2.26	117.95	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	LD	501	GDP	C5-C6-N1	2.26	117.95	113.95
48	JB	501	GDP	C8-N7-C5	2.26	107.30	102.99
48	QF	501	GDP	C8-N7-C5	2.26	107.30	102.99
46	KC	501	GTP	O6-C6-C5	-2.26	119.95	124.37
48	KD	501	GDP	C5-C6-N1	2.26	117.95	113.95
48	RD	501	GDP	C8-N7-C5	2.26	107.30	102.99
48	KN	501	GDP	C5-C6-N1	2.26	117.95	113.95
48	BD	502	GDP	C8-N7-C5	2.26	107.30	102.99
48	ON	501	GDP	C8-N7-C5	2.26	107.30	102.99
48	PH	501	GDP	C5-C6-N1	2.26	117.95	113.95
48	WH	501	GDP	C5-C6-N1	2.26	117.95	113.95
48	GJ	502	GDP	C5-C6-N1	2.26	117.94	113.95
46	QE	501	GTP	O6-C6-C5	-2.26	119.96	124.37
48	DD	501	GDP	C5-C6-N1	2.26	117.94	113.95
48	RD	501	GDP	C5-C6-N1	2.26	117.94	113.95
46	MA	501	GTP	O6-C6-C5	-2.26	119.96	124.37
48	DJ	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	MH	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	TD	501	GDP	C8-N7-C5	2.26	107.29	102.99
46	DG	501	GTP	O6-C6-C5	-2.26	119.96	124.37
48	PL	501	GDP	C5-C6-N1	2.26	117.94	113.95
48	JL	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	PH	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	JN	501	GDP	C5-C6-N1	2.26	117.94	113.95
48	QH	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	RB	501	GDP	C5-C6-N1	2.26	117.94	113.95
48	PN	501	GDP	C8-N7-C5	2.26	107.29	102.99
48	FF	502	GDP	C5-C6-N1	2.26	117.94	113.95
48	GB	502	GDP	C5-C6-N1	2.25	117.93	113.95
48	SD	501	GDP	C8-N7-C5	2.25	107.28	102.99
48	NB	501	GDP	C8-N7-C5	2.25	107.28	102.99
46	EG	501	GTP	O6-C6-C5	-2.25	119.97	124.37
48	VJ	501	GDP	C8-N7-C5	2.25	107.28	102.99
48	ID	502	GDP	C5-C6-N1	2.25	117.93	113.95
48	JF	501	GDP	C5-C6-N1	2.25	117.92	113.95
48	MD	501	GDP	C5-C6-N1	2.25	117.92	113.95
48	IH	502	GDP	C5-C6-N1	2.25	117.92	113.95
46	ME	501	GTP	O6-C6-C5	-2.25	119.98	124.37
46	JE	501	GTP	O6-C6-C5	-2.25	119.98	124.37
48	EF	501	GDP	C8-N7-C5	2.25	107.27	102.99
46	CM	501	GTP	O6-C6-C5	-2.25	119.98	124.37
48	EB	501	GDP	C5-C6-N1	2.25	117.92	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	KJ	502	GDP	C8-N7-C5	2.25	107.27	102.99
46	EM	501	GTP	O6-C6-C5	-2.25	119.98	124.37
46	CI	501	GTP	O6-C6-C5	-2.25	119.98	124.37
48	VF	501	GDP	C5-C6-N1	2.25	117.92	113.95
48	DL	501	GDP	C5-C6-N1	2.24	117.92	113.95
48	RL	501	GDP	C8-N7-C5	2.24	107.27	102.99
46	VI	501	GTP	O6-C6-C5	-2.24	119.99	124.37
48	KF	502	GDP	C8-N7-C5	2.24	107.26	102.99
48	LD	501	GDP	C8-N7-C5	2.24	107.26	102.99
48	ML	501	GDP	C8-N7-C5	2.24	107.26	102.99
48	HJ	501	GDP	C5-C6-N1	2.24	117.91	113.95
48	KF	502	GDP	C5-C6-N1	2.24	117.91	113.95
48	VD	501	GDP	C8-N7-C5	2.24	107.26	102.99
46	NE	501	GTP	O6-C6-C5	-2.24	120.00	124.37
48	CD	501	GDP	C5-C6-N1	2.24	117.91	113.95
48	DB	501	GDP	C5-C6-N1	2.24	117.91	113.95
48	QB	501	GDP	C5-C6-N1	2.24	117.90	113.95
46	KG	501	GTP	O6-C6-C5	-2.24	120.00	124.37
48	TJ	501	GDP	C8-N7-C5	2.24	107.25	102.99
46	TM	501	GTP	O6-C6-C5	-2.24	120.00	124.37
48	FH	501	GDP	C5-C6-N1	2.24	117.90	113.95
48	TJ	501	GDP	C5-C6-N1	2.24	117.90	113.95
48	DH	501	GDP	C5-C6-N1	2.23	117.90	113.95
48	IJ	502	GDP	C5-C6-N1	2.23	117.90	113.95
46	DB	502	GTP	O6-C6-C5	-2.23	120.01	124.37
48	UB	501	GDP	C8-N7-C5	2.23	107.25	102.99
46	OL	501	GTP	O6-C6-C5	-2.23	120.01	124.37
46	TK	501	GTP	O6-C6-C5	-2.23	120.01	124.37
48	TF	501	GDP	C8-N7-C5	2.23	107.24	102.99
48	ON	501	GDP	C5-C6-N1	2.23	117.89	113.95
48	PF	501	GDP	C8-N7-C5	2.23	107.24	102.99
48	MF	502	GDP	C5-C6-N1	2.23	117.89	113.95
48	QH	501	GDP	C5-C6-N1	2.23	117.89	113.95
48	LB	502	GDP	C8-N7-C5	2.23	107.24	102.99
46	OA	501	GTP	O6-C6-C5	-2.23	120.02	124.37
48	IF	501	GDP	C5-C6-N1	2.23	117.89	113.95
48	ED	501	GDP	C8-N7-C5	2.23	107.24	102.99
46	NM	501	GTP	O6-C6-C5	-2.23	120.02	124.37
48	RL	501	GDP	C5-C6-N1	2.23	117.88	113.95
46	UM	501	GTP	O6-C6-C5	-2.23	120.03	124.37
46	RC	501	GTP	O6-C6-C5	-2.23	120.03	124.37
48	IB	501	GDP	C5-C6-N1	2.22	117.88	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	FA	501	GTP	O6-C6-C5	-2.22	120.03	124.37
48	SJ	501	GDP	C8-N7-C5	2.22	107.23	102.99
48	RJ	501	GDP	C5-C6-N1	2.22	117.88	113.95
48	GB	502	GDP	C8-N7-C5	2.22	107.22	102.99
46	LI	501	GTP	O6-C6-C5	-2.22	120.03	124.37
48	HN	501	GDP	C5-C6-N1	2.22	117.88	113.95
46	HC	501	GTP	O6-C6-C5	-2.22	120.03	124.37
48	FL	501	GDP	C5-C6-N1	2.22	117.87	113.95
48	FN	501	GDP	C5-C6-N1	2.22	117.87	113.95
46	WG	501	GTP	O6-C6-C5	-2.22	120.04	124.37
48	PB	501	GDP	C5-C6-N1	2.22	117.87	113.95
48	NH	501	GDP	C8-N7-C5	2.22	107.22	102.99
48	EB	501	GDP	C8-N7-C5	2.22	107.22	102.99
48	RJ	501	GDP	C8-N7-C5	2.22	107.22	102.99
48	MB	501	GDP	C5-C6-N1	2.22	117.87	113.95
48	SB	501	GDP	C5-C6-N1	2.22	117.87	113.95
48	QD	501	GDP	C8-N7-C5	2.22	107.22	102.99
48	KB	501	GDP	C5-C6-N1	2.22	117.87	113.95
46	IG	501	GTP	O6-C6-C5	-2.22	120.04	124.37
46	QK	501	GTP	O6-C6-C5	-2.22	120.04	124.37
46	CK	501	GTP	O6-C6-C5	-2.21	120.05	124.37
46	GM	501	GTP	O6-C6-C5	-2.21	120.05	124.37
48	FH	501	GDP	C8-N7-C5	2.21	107.21	102.99
46	SK	501	GTP	O6-C6-C5	-2.21	120.05	124.37
46	HK	501	GTP	O6-C6-C5	-2.21	120.05	124.37
46	AG	501	GTP	O6-C6-C5	-2.21	120.06	124.37
46	QA	501	GTP	O6-C6-C5	-2.21	120.06	124.37
46	OI	501	GTP	O6-C6-C5	-2.21	120.06	124.37
48	UB	501	GDP	C5-C6-N1	2.21	117.85	113.95
48	EJ	501	GDP	C8-N7-C5	2.21	107.19	102.99
48	SL	501	GDP	C8-N7-C5	2.21	107.19	102.99
46	OE	501	GTP	O6-C6-C5	-2.21	120.06	124.37
48	BD	502	GDP	C5-C6-N1	2.20	117.84	113.95
46	RA	501	GTP	O6-C6-C5	-2.20	120.07	124.37
48	PD	502	GDP	C8-N7-C5	2.20	107.19	102.99
46	JG	501	GTP	O6-C6-C5	-2.20	120.07	124.37
48	VH	501	GDP	C5-C6-N1	2.20	117.84	113.95
46	GG	501	GTP	O6-C6-C5	-2.20	120.07	124.37
48	LB	502	GDP	C5-C6-N1	2.20	117.84	113.95
48	HB	501	GDP	C8-N7-C5	2.20	107.18	102.99
46	JI	501	GTP	O6-C6-C5	-2.20	120.08	124.37
46	CE	501	GTP	O6-C6-C5	-2.19	120.09	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	RM	501	GTP	PA-O3A-PB	-2.19	125.30	132.83
48	DD	501	GDP	C8-N7-C5	2.19	107.17	102.99
48	SH	501	GDP	C5-C6-N1	2.19	117.83	113.95
46	SC	501	GTP	O6-C6-C5	-2.19	120.09	124.37
48	QD	501	GDP	C5-C6-N1	2.19	117.82	113.95
48	SJ	501	GDP	C5-C6-N1	2.19	117.82	113.95
46	TA	501	GTP	O6-C6-C5	-2.19	120.09	124.37
48	MH	501	GDP	C5-C6-N1	2.19	117.82	113.95
46	EA	501	GTP	O6-C6-C5	-2.19	120.09	124.37
46	TG	501	GTP	O6-C6-C5	-2.19	120.09	124.37
48	UD	501	GDP	C8-N7-C5	2.19	107.16	102.99
46	UK	501	GTP	O6-C6-C5	-2.19	120.10	124.37
48	SH	501	GDP	C8-N7-C5	2.19	107.16	102.99
48	GL	502	GDP	C8-N7-C5	2.19	107.16	102.99
48	EF	501	GDP	C5-C6-N1	2.19	117.81	113.95
48	JJ	501	GDP	C5-C6-N1	2.19	117.81	113.95
46	DE	501	GTP	O6-C6-C5	-2.18	120.11	124.37
46	IE	501	GTP	O6-C6-C5	-2.18	120.11	124.37
48	UF	501	GDP	C5-C6-N1	2.18	117.81	113.95
46	BM	501	GTP	O6-C6-C5	-2.18	120.11	124.37
48	PF	501	GDP	C5-C6-N1	2.18	117.80	113.95
46	QC	501	GTP	O6-C6-C5	-2.18	120.11	124.37
46	WK	501	GTP	O6-C6-C5	-2.18	120.11	124.37
48	IB	501	GDP	C8-N7-C5	2.18	107.14	102.99
46	EC	501	GTP	O6-C6-C5	-2.18	120.12	124.37
48	AB	502	GDP	C5-C6-N1	2.18	117.79	113.95
46	CA	501	GTP	O6-C6-C5	-2.17	120.13	124.37
48	FL	501	GDP	C8-N7-C5	2.17	107.12	102.99
46	PM	501	GTP	O6-C6-C5	-2.17	120.14	124.37
46	BG	501	GTP	O6-C6-C5	-2.17	120.14	124.37
46	PI	501	GTP	O6-C6-C5	-2.17	120.14	124.37
46	MI	501	GTP	O6-C6-C5	-2.17	120.14	124.37
46	LB	501	GTP	O6-C6-C5	-2.16	120.15	124.37
46	DM	501	GTP	O6-C6-C5	-2.16	120.15	124.37
46	JA	501	GTP	N2-C2-N1	2.16	121.32	116.71
46	TI	501	GTP	O6-C6-C5	-2.16	120.15	124.37
46	WC	501	GTP	O6-C6-C5	-2.16	120.16	124.37
48	UL	501	GDP	C5-C6-N1	2.16	117.76	113.95
48	CB	501	GDP	C5'-C4'-C3'	2.16	123.26	115.18
48	SB	501	GDP	C8-N7-C5	2.16	107.10	102.99
46	CG	501	GTP	O6-C6-C5	-2.15	120.16	124.37
46	SM	501	GTP	O6-C6-C5	-2.15	120.16	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	HG	501	GTP	O6-C6-C5	-2.15	120.17	124.37
46	DA	501	GTP	O6-C6-C5	-2.15	120.17	124.37
46	BA	501	GTP	O6-C6-C5	-2.15	120.17	124.37
46	UA	501	GTP	O6-C6-C5	-2.15	120.18	124.37
48	PN	501	GDP	C5-C6-N1	2.14	117.74	113.95
46	AI	501	GTP	O6-C6-C5	-2.14	120.19	124.37
46	JK	501	GTP	O6-C6-C5	-2.14	120.20	124.37
46	SA	501	GTP	O6-C6-C5	-2.12	120.22	124.37
46	PE	501	GTP	O6-C6-C5	-2.12	120.22	124.37
48	UH	501	GDP	C5-C6-N1	2.12	117.70	113.95
46	PG	501	GTP	O6-C6-C5	-2.12	120.23	124.37
48	NF	501	GDP	C5-C6-N1	2.12	117.69	113.95
46	LK	501	GTP	O6-C6-C5	-2.11	120.24	124.37
46	OG	501	GTP	O6-C6-C5	-2.11	120.24	124.37
46	IM	501	GTP	O6-C6-C5	-2.11	120.25	124.37
46	AM	501	GTP	O6-C6-C5	-2.11	120.26	124.37
46	BI	501	GTP	O6-C6-C5	-2.10	120.26	124.37
46	UE	501	GTP	O6-C6-C5	-2.09	120.29	124.37
46	II	501	GTP	O6-C6-C5	-2.09	120.30	124.37
46	VK	501	GTP	O6-C6-C5	-2.08	120.31	124.37
46	WM	501	GTP	O6-C6-C5	-2.08	120.31	124.37
46	OL	501	GTP	O3G-PG-O3B	2.08	111.61	104.64
46	PA	501	GTP	O6-C6-C5	-2.08	120.31	124.37
46	QM	501	GTP	O6-C6-C5	-2.08	120.31	124.37
46	IK	501	GTP	O6-C6-C5	-2.08	120.32	124.37
46	QG	501	GTP	O6-C6-C5	-2.07	120.34	124.37
46	GE	501	GTP	O6-C6-C5	-2.05	120.36	124.37
46	JC	501	GTP	O6-C6-C5	-2.05	120.37	124.37
48	TD	501	GDP	C2'-C3'-C4'	2.02	106.56	102.64
46	GL	501	GTP	O6-C6-C5	-2.00	120.46	124.37
48	NB	501	GDP	O6-C6-C5	-2.00	120.46	124.37

There are no chirality outliers.

All (1033) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
46	AA	501	GTP	PB-O3B-PG-O3G
46	AA	501	GTP	C5'-O5'-PA-O3A
46	AC	501	GTP	C4'-C5'-O5'-PA
46	AE	501	GTP	PB-O3A-PA-O5'
46	AG	501	GTP	C5'-O5'-PA-O3A
46	AG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
46	AI	501	GTP	C5'-O5'-PA-O1A
46	AK	501	GTP	PB-O3B-PG-O2G
46	AK	501	GTP	PB-O3B-PG-O3G
46	AK	501	GTP	C5'-O5'-PA-O3A
46	AK	501	GTP	C5'-O5'-PA-O1A
46	AM	501	GTP	C5'-O5'-PA-O1A
46	AM	501	GTP	C5'-O5'-PA-O2A
46	BA	501	GTP	PB-O3B-PG-O3G
46	BA	501	GTP	C5'-O5'-PA-O3A
46	BA	501	GTP	C5'-O5'-PA-O1A
46	BC	501	GTP	C5'-O5'-PA-O3A
46	BC	501	GTP	C5'-O5'-PA-O2A
46	BC	501	GTP	C4'-C5'-O5'-PA
46	BE	501	GTP	C5'-O5'-PA-O1A
46	BE	501	GTP	C5'-O5'-PA-O2A
46	BG	501	GTP	C5'-O5'-PA-O3A
46	BG	501	GTP	C4'-C5'-O5'-PA
46	BK	501	GTP	C5'-O5'-PA-O3A
46	BK	501	GTP	C5'-O5'-PA-O2A
46	CC	501	GTP	C5'-O5'-PA-O1A
46	CC	501	GTP	C5'-O5'-PA-O2A
46	CE	501	GTP	C5'-O5'-PA-O3A
46	CE	501	GTP	C5'-O5'-PA-O1A
46	CG	501	GTP	C5'-O5'-PA-O1A
46	CG	501	GTP	C5'-O5'-PA-O2A
46	CI	501	GTP	C5'-O5'-PA-O3A
46	CK	501	GTP	C5'-O5'-PA-O1A
46	CK	501	GTP	C5'-O5'-PA-O2A
46	CM	501	GTP	C5'-O5'-PA-O3A
46	CM	501	GTP	C5'-O5'-PA-O2A
46	DA	501	GTP	C5'-O5'-PA-O1A
46	DB	502	GTP	PB-O3A-PA-O5'
46	DB	502	GTP	C5'-O5'-PA-O3A
46	DB	502	GTP	C5'-O5'-PA-O2A
46	DE	501	GTP	PB-O3B-PG-O2G
46	DE	501	GTP	PB-O3B-PG-O3G
46	DE	501	GTP	C5'-O5'-PA-O3A
46	DE	501	GTP	C5'-O5'-PA-O1A
46	DG	501	GTP	C4'-C5'-O5'-PA
46	DI	501	GTP	C5'-O5'-PA-O1A
46	DK	501	GTP	C4'-C5'-O5'-PA
46	DM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
46	DM	501	GTP	C4'-C5'-O5'-PA
46	EA	501	GTP	C5'-O5'-PA-O3A
46	EC	501	GTP	O4'-C4'-C5'-O5'
46	EG	501	GTP	C5'-O5'-PA-O3A
46	EG	501	GTP	C5'-O5'-PA-O2A
46	EI	501	GTP	PB-O3A-PA-O5'
46	EI	501	GTP	C5'-O5'-PA-O3A
46	EI	501	GTP	C5'-O5'-PA-O2A
46	EK	501	GTP	C5'-O5'-PA-O1A
46	EM	501	GTP	C5'-O5'-PA-O1A
46	EM	501	GTP	C5'-O5'-PA-O2A
46	FA	501	GTP	C4'-C5'-O5'-PA
46	FC	501	GTP	C5'-O5'-PA-O1A
46	FC	501	GTP	C5'-O5'-PA-O2A
46	FE	501	GTP	PB-O3A-PA-O5'
46	FG	501	GTP	C5'-O5'-PA-O1A
46	FG	501	GTP	C5'-O5'-PA-O2A
46	FI	501	GTP	C5'-O5'-PA-O3A
46	FK	501	GTP	C5'-O5'-PA-O1A
46	FM	501	GTP	C5'-O5'-PA-O1A
46	FM	501	GTP	C5'-O5'-PA-O2A
46	GG	501	GTP	C4'-C5'-O5'-PA
46	GI	501	GTP	C5'-O5'-PA-O3A
46	GI	501	GTP	C5'-O5'-PA-O1A
46	GI	501	GTP	C5'-O5'-PA-O2A
46	GI	501	GTP	C4'-C5'-O5'-PA
46	GL	501	GTP	PB-O3B-PG-O3G
46	GL	501	GTP	PB-O3A-PA-O5'
46	GM	501	GTP	C5'-O5'-PA-O1A
46	GM	501	GTP	C5'-O5'-PA-O2A
46	HA	501	GTP	PB-O3B-PG-O3G
46	HA	501	GTP	PB-O3A-PA-O5'
46	HA	501	GTP	C5'-O5'-PA-O1A
46	HA	501	GTP	C5'-O5'-PA-O2A
46	HC	501	GTP	C5'-O5'-PA-O1A
46	HE	501	GTP	C5'-O5'-PA-O3A
46	HE	501	GTP	C5'-O5'-PA-O2A
46	HG	501	GTP	PB-O3B-PG-O2G
46	HG	501	GTP	PB-O3B-PG-O3G
46	HG	501	GTP	C5'-O5'-PA-O3A
46	HG	501	GTP	C5'-O5'-PA-O1A
46	HI	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
46	IA	501	GTP	C5'-O5'-PA-O3A
46	ID	501	GTP	C5'-O5'-PA-O1A
46	ID	501	GTP	C5'-O5'-PA-O2A
46	ID	501	GTP	C3'-C4'-C5'-O5'
46	IE	501	GTP	C5'-O5'-PA-O1A
46	IE	501	GTP	C5'-O5'-PA-O2A
46	IE	501	GTP	C3'-C4'-C5'-O5'
46	IG	501	GTP	C5'-O5'-PA-O1A
46	II	501	GTP	C5'-O5'-PA-O1A
46	IK	501	GTP	C5'-O5'-PA-O3A
46	IM	501	GTP	C5'-O5'-PA-O1A
46	JA	501	GTP	C4'-C5'-O5'-PA
46	JC	501	GTP	PB-O3B-PG-O3G
46	JC	501	GTP	C5'-O5'-PA-O3A
46	JC	501	GTP	C5'-O5'-PA-O2A
46	JE	501	GTP	C4'-C5'-O5'-PA
46	JG	501	GTP	PB-O3A-PA-O5'
46	JG	501	GTP	C5'-O5'-PA-O3A
46	JG	501	GTP	C5'-O5'-PA-O2A
46	JI	501	GTP	C5'-O5'-PA-O3A
46	JI	501	GTP	C5'-O5'-PA-O2A
46	JK	501	GTP	C5'-O5'-PA-O2A
46	JM	501	GTP	C4'-C5'-O5'-PA
46	KA	501	GTP	C5'-O5'-PA-O1A
46	KA	501	GTP	C5'-O5'-PA-O2A
46	KA	501	GTP	C3'-C4'-C5'-O5'
46	KC	501	GTP	C5'-O5'-PA-O3A
46	KE	501	GTP	C4'-C5'-O5'-PA
46	KG	501	GTP	PB-O3A-PA-O5'
46	KG	501	GTP	C5'-O5'-PA-O1A
46	KJ	501	GTP	C5'-O5'-PA-O1A
46	KJ	501	GTP	C5'-O5'-PA-O2A
46	KK	501	GTP	C5'-O5'-PA-O3A
46	KK	501	GTP	C4'-C5'-O5'-PA
46	KM	501	GTP	C5'-O5'-PA-O3A
46	KM	501	GTP	C5'-O5'-PA-O2A
46	LB	501	GTP	PB-O3B-PG-O3G
46	LB	501	GTP	PB-O3A-PA-O5'
46	LB	501	GTP	C5'-O5'-PA-O1A
46	LC	501	GTP	C5'-O5'-PA-O1A
46	LE	501	GTP	C5'-O5'-PA-O3A
46	LE	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
46	LG	501	GTP	C5'-O5'-PA-O3A
46	LK	501	GTP	C5'-O5'-PA-O3A
46	LK	501	GTP	C5'-O5'-PA-O2A
46	MA	501	GTP	C5'-O5'-PA-O3A
46	MA	501	GTP	C5'-O5'-PA-O2A
46	MC	501	GTP	C5'-O5'-PA-O3A
46	MC	501	GTP	C4'-C5'-O5'-PA
46	ME	501	GTP	C4'-C5'-O5'-PA
46	MG	501	GTP	C5'-O5'-PA-O3A
46	MG	501	GTP	C4'-C5'-O5'-PA
46	MI	501	GTP	C5'-O5'-PA-O3A
46	MI	501	GTP	C5'-O5'-PA-O2A
46	MK	501	GTP	PB-O3A-PA-O5'
46	MK	501	GTP	C5'-O5'-PA-O1A
46	MM	501	GTP	C5'-O5'-PA-O1A
46	NA	501	GTP	PB-O3B-PG-O3G
46	NA	501	GTP	C5'-O5'-PA-O3A
46	NC	501	GTP	C5'-O5'-PA-O3A
46	NC	501	GTP	C5'-O5'-PA-O2A
46	NE	501	GTP	C5'-O5'-PA-O1A
46	NG	501	GTP	C5'-O5'-PA-O2A
46	NI	501	GTP	PB-O3A-PA-O5'
46	NK	501	GTP	C5'-O5'-PA-O1A
46	NK	501	GTP	C5'-O5'-PA-O2A
46	NM	501	GTP	C3'-C4'-C5'-O5'
46	OA	501	GTP	C5'-O5'-PA-O1A
46	OA	501	GTP	C5'-O5'-PA-O2A
46	OC	501	GTP	C5'-O5'-PA-O1A
46	OC	501	GTP	C5'-O5'-PA-O2A
46	OG	501	GTP	C5'-O5'-PA-O1A
46	OI	501	GTP	C5'-O5'-PA-O1A
46	OI	501	GTP	C5'-O5'-PA-O2A
46	OL	501	GTP	C5'-O5'-PA-O3A
46	OL	501	GTP	C5'-O5'-PA-O1A
46	OM	501	GTP	C5'-O5'-PA-O1A
46	OM	501	GTP	C5'-O5'-PA-O2A
46	PA	501	GTP	C5'-O5'-PA-O3A
46	PC	501	GTP	C5'-O5'-PA-O3A
46	PC	501	GTP	C5'-O5'-PA-O2A
46	PE	501	GTP	C5'-O5'-PA-O1A
46	PE	501	GTP	C5'-O5'-PA-O2A
46	PG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
46	PG	501	GTP	C5'-O5'-PA-O2A
46	PI	501	GTP	C5'-O5'-PA-O3A
46	PI	501	GTP	C5'-O5'-PA-O2A
46	PM	501	GTP	C5'-O5'-PA-O3A
46	QA	501	GTP	C5'-O5'-PA-O3A
46	QC	501	GTP	C5'-O5'-PA-O3A
46	QC	501	GTP	C5'-O5'-PA-O2A
46	QC	501	GTP	O4'-C4'-C5'-O5'
46	QC	501	GTP	C3'-C4'-C5'-O5'
46	QE	501	GTP	C5'-O5'-PA-O3A
46	QE	501	GTP	C5'-O5'-PA-O1A
46	QE	501	GTP	C5'-O5'-PA-O2A
46	QG	501	GTP	C5'-O5'-PA-O3A
46	QG	501	GTP	C5'-O5'-PA-O1A
46	QI	501	GTP	PB-O3A-PA-O5'
46	QI	501	GTP	C5'-O5'-PA-O3A
46	QK	501	GTP	C5'-O5'-PA-O1A
46	QK	501	GTP	C5'-O5'-PA-O2A
46	QM	501	GTP	C5'-O5'-PA-O3A
46	RE	501	GTP	C5'-O5'-PA-O3A
46	RE	501	GTP	C5'-O5'-PA-O1A
46	RE	501	GTP	C5'-O5'-PA-O2A
46	RG	501	GTP	C5'-O5'-PA-O3A
46	RG	501	GTP	C5'-O5'-PA-O1A
46	RG	501	GTP	C5'-O5'-PA-O2A
46	RK	501	GTP	C5'-O5'-PA-O3A
46	RM	501	GTP	C5'-O5'-PA-O1A
46	RM	501	GTP	C5'-O5'-PA-O2A
46	RM	501	GTP	C4'-C5'-O5'-PA
46	SA	501	GTP	PB-O3A-PA-O5'
46	SA	501	GTP	O4'-C4'-C5'-O5'
46	SA	501	GTP	C3'-C4'-C5'-O5'
46	SE	501	GTP	PB-O3A-PA-O5'
46	SE	501	GTP	C5'-O5'-PA-O3A
46	SE	501	GTP	C5'-O5'-PA-O2A
46	SE	501	GTP	C3'-C4'-C5'-O5'
46	SG	501	GTP	C5'-O5'-PA-O1A
46	SG	501	GTP	C5'-O5'-PA-O2A
46	SI	501	GTP	C3'-C4'-C5'-O5'
46	SK	501	GTP	O4'-C4'-C5'-O5'
46	SK	501	GTP	C3'-C4'-C5'-O5'
46	SM	501	GTP	PB-O3B-PG-O3G

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Mol	Chain	Res	Type	Atoms
46	SM	501	GTP	PB-O3A-PA-O5'
46	SM	501	GTP	C5'-O5'-PA-O3A
46	TA	501	GTP	C5'-O5'-PA-O1A
46	TA	501	GTP	C5'-O5'-PA-O2A
46	TA	501	GTP	O4'-C4'-C5'-O5'
46	TA	501	GTP	C3'-C4'-C5'-O5'
46	TC	501	GTP	O4'-C4'-C5'-O5'
46	TC	501	GTP	C3'-C4'-C5'-O5'
46	TE	501	GTP	C5'-O5'-PA-O3A
46	TE	501	GTP	C5'-O5'-PA-O2A
46	TG	501	GTP	C5'-O5'-PA-O3A
46	TG	501	GTP	O4'-C4'-C5'-O5'
46	TG	501	GTP	C3'-C4'-C5'-O5'
46	TK	501	GTP	C5'-O5'-PA-O1A
46	TK	501	GTP	C5'-O5'-PA-O2A
46	TM	501	GTP	C5'-O5'-PA-O1A
46	UA	501	GTP	PB-O3A-PA-O5'
46	UC	501	GTP	PB-O3A-PA-O5'
46	UE	501	GTP	C5'-O5'-PA-O3A
46	UE	501	GTP	C5'-O5'-PA-O2A
46	UG	501	GTP	C5'-O5'-PA-O3A
46	UK	501	GTP	O4'-C4'-C5'-O5'
46	UK	501	GTP	C3'-C4'-C5'-O5'
46	UM	501	GTP	C5'-O5'-PA-O1A
46	VA	501	GTP	PB-O3B-PG-O3G
46	VA	501	GTP	C5'-O5'-PA-O3A
46	VA	501	GTP	C5'-O5'-PA-O1A
46	VC	501	GTP	C5'-O5'-PA-O1A
46	VE	501	GTP	PB-O3B-PG-O3G
46	VE	501	GTP	C5'-O5'-PA-O1A
46	VI	501	GTP	PB-O3B-PG-O3G
46	VI	501	GTP	PB-O3A-PA-O5'
46	VI	501	GTP	C5'-O5'-PA-O3A
46	VI	501	GTP	O4'-C4'-C5'-O5'
46	VI	501	GTP	C3'-C4'-C5'-O5'
46	VK	501	GTP	PB-O3A-PA-O5'
46	VK	501	GTP	C5'-O5'-PA-O3A
46	VM	501	GTP	PB-O3B-PG-O2G
46	VM	501	GTP	PB-O3B-PG-O3G
46	VM	501	GTP	C5'-O5'-PA-O3A
46	VM	501	GTP	C5'-O5'-PA-O1A
46	WC	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
46	WC	501	GTP	C5'-O5'-PA-O2A
46	WE	501	GTP	C5'-O5'-PA-O1A
46	WG	501	GTP	O4'-C4'-C5'-O5'
46	WG	501	GTP	C3'-C4'-C5'-O5'
46	WI	501	GTP	C5'-O5'-PA-O1A
46	WI	501	GTP	C5'-O5'-PA-O2A
46	WK	501	GTP	PB-O3B-PG-O3G
46	WK	501	GTP	C5'-O5'-PA-O3A
46	WK	501	GTP	C5'-O5'-PA-O1A
46	WM	501	GTP	C5'-O5'-PA-O2A
48	AF	501	GDP	C5'-O5'-PA-O1A
48	BF	502	GDP	C5'-O5'-PA-O1A
48	BJ	502	GDP	C5'-O5'-PA-O1A
48	CB	501	GDP	C5'-O5'-PA-O3A
48	CB	501	GDP	C5'-O5'-PA-O2A
48	CB	501	GDP	O4'-C4'-C5'-O5'
48	CB	501	GDP	C3'-C4'-C5'-O5'
48	CH	501	GDP	C5'-O5'-PA-O1A
48	CJ	501	GDP	C5'-O5'-PA-O1A
48	DB	501	GDP	C5'-O5'-PA-O1A
48	DD	501	GDP	C5'-O5'-PA-O1A
48	DH	501	GDP	C5'-O5'-PA-O1A
48	DJ	501	GDP	C5'-O5'-PA-O1A
48	ED	501	GDP	C5'-O5'-PA-O1A
48	EH	501	GDP	C5'-O5'-PA-O3A
48	EJ	501	GDP	C5'-O5'-PA-O3A
48	EN	501	GDP	C5'-O5'-PA-O3A
48	EN	501	GDP	C5'-O5'-PA-O1A
48	FB	501	GDP	C5'-O5'-PA-O1A
48	FH	501	GDP	C5'-O5'-PA-O1A
48	FL	501	GDP	C5'-O5'-PA-O3A
48	FL	501	GDP	C5'-O5'-PA-O1A
48	FN	501	GDP	C5'-O5'-PA-O3A
48	GD	503	GDP	C5'-O5'-PA-O1A
48	GH	502	GDP	C5'-O5'-PA-O3A
48	GH	502	GDP	C5'-O5'-PA-O1A
48	GJ	502	GDP	PA-O3A-PB-O3B
48	GL	502	GDP	C5'-O5'-PA-O3A
48	GL	502	GDP	C5'-O5'-PA-O1A
48	HB	501	GDP	C5'-O5'-PA-O1A
48	HH	501	GDP	C5'-O5'-PA-O1A
48	HL	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
48	HN	501	GDP	C5'-O5'-PA-O1A
48	IF	501	GDP	C5'-O5'-PA-O1A
48	JB	501	GDP	C5'-O5'-PA-O1A
48	JD	501	GDP	C5'-O5'-PA-O3A
48	JH	501	GDP	C5'-O5'-PA-O1A
48	JL	501	GDP	C5'-O5'-PA-O3A
48	JL	501	GDP	C5'-O5'-PA-O1A
48	KL	501	GDP	C5'-O5'-PA-O1A
48	LF	501	GDP	C3'-C4'-C5'-O5'
48	LN	502	GDP	C5'-O5'-PA-O3A
48	MB	501	GDP	C5'-O5'-PA-O3A
48	MF	502	GDP	O4'-C4'-C5'-O5'
48	MF	502	GDP	C3'-C4'-C5'-O5'
48	MJ	502	GDP	C5'-O5'-PA-O1A
48	ML	501	GDP	C5'-O5'-PA-O1A
48	NB	501	GDP	PA-O3A-PB-O2B
48	NF	501	GDP	C5'-O5'-PA-O1A
48	NN	501	GDP	PA-O3A-PB-O2B
48	OB	501	GDP	C5'-O5'-PA-O1A
48	OD	502	GDP	C3'-C4'-C5'-O5'
48	OF	501	GDP	C5'-O5'-PA-O1A
48	OH	501	GDP	C5'-O5'-PA-O1A
48	OJ	501	GDP	C5'-O5'-PA-O3A
48	OJ	501	GDP	C5'-O5'-PA-O1A
48	PJ	501	GDP	C5'-O5'-PA-O1A
48	QJ	501	GDP	C5'-O5'-PA-O1A
48	RF	501	GDP	C3'-C4'-C5'-O5'
48	SF	501	GDP	C3'-C4'-C5'-O5'
48	SJ	501	GDP	C5'-O5'-PA-O1A
48	UB	501	GDP	C5'-O5'-PA-O1A
48	UJ	501	GDP	C5'-O5'-PA-O1A
48	VJ	501	GDP	C5'-O5'-PA-O1A
48	WB	501	GDP	C5'-O5'-PA-O1A
46	EC	501	GTP	C3'-C4'-C5'-O5'
46	EG	501	GTP	C3'-C4'-C5'-O5'
46	EI	501	GTP	C3'-C4'-C5'-O5'
46	IA	501	GTP	O4'-C4'-C5'-O5'
46	IA	501	GTP	C3'-C4'-C5'-O5'
46	ID	501	GTP	O4'-C4'-C5'-O5'
46	IE	501	GTP	O4'-C4'-C5'-O5'
46	KA	501	GTP	O4'-C4'-C5'-O5'
46	NI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
46	OE	501	GTP	C3'-C4'-C5'-O5'
46	PI	501	GTP	C3'-C4'-C5'-O5'
46	RE	501	GTP	C3'-C4'-C5'-O5'
46	SE	501	GTP	O4'-C4'-C5'-O5'
46	SG	501	GTP	O4'-C4'-C5'-O5'
46	SG	501	GTP	C3'-C4'-C5'-O5'
46	SI	501	GTP	O4'-C4'-C5'-O5'
46	SM	501	GTP	C3'-C4'-C5'-O5'
48	BL	502	GDP	C3'-C4'-C5'-O5'
48	LF	501	GDP	O4'-C4'-C5'-O5'
48	OD	502	GDP	O4'-C4'-C5'-O5'
48	RF	501	GDP	O4'-C4'-C5'-O5'
48	SF	501	GDP	O4'-C4'-C5'-O5'
46	EM	501	GTP	C4'-C5'-O5'-PA
46	HK	501	GTP	C4'-C5'-O5'-PA
46	KC	501	GTP	C4'-C5'-O5'-PA
46	KJ	501	GTP	C4'-C5'-O5'-PA
46	PA	501	GTP	C4'-C5'-O5'-PA
46	PC	501	GTP	C4'-C5'-O5'-PA
46	RI	501	GTP	C4'-C5'-O5'-PA
46	WA	501	GTP	C4'-C5'-O5'-PA
46	BM	501	GTP	O4'-C4'-C5'-O5'
46	BM	501	GTP	C3'-C4'-C5'-O5'
46	EG	501	GTP	O4'-C4'-C5'-O5'
46	EI	501	GTP	O4'-C4'-C5'-O5'
46	HI	501	GTP	O4'-C4'-C5'-O5'
46	NI	501	GTP	O4'-C4'-C5'-O5'
46	PI	501	GTP	O4'-C4'-C5'-O5'
46	PM	501	GTP	C3'-C4'-C5'-O5'
46	RE	501	GTP	O4'-C4'-C5'-O5'
46	SM	501	GTP	O4'-C4'-C5'-O5'
48	BL	502	GDP	O4'-C4'-C5'-O5'
48	TJ	501	GDP	O4'-C4'-C5'-O5'
48	TJ	501	GDP	C3'-C4'-C5'-O5'
46	FI	501	GTP	C4'-C5'-O5'-PA
46	JI	501	GTP	C3'-C4'-C5'-O5'
46	CG	501	GTP	C4'-C5'-O5'-PA
46	CK	501	GTP	C4'-C5'-O5'-PA
46	EG	501	GTP	C4'-C5'-O5'-PA
46	FC	501	GTP	C4'-C5'-O5'-PA
46	QE	501	GTP	C4'-C5'-O5'-PA
46	HI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
46	JG	501	GTP	C3'-C4'-C5'-O5'
46	SC	501	GTP	C3'-C4'-C5'-O5'
46	UC	501	GTP	C3'-C4'-C5'-O5'
46	VK	501	GTP	C3'-C4'-C5'-O5'
48	JN	501	GDP	C3'-C4'-C5'-O5'
48	NH	501	GDP	C3'-C4'-C5'-O5'
48	NL	501	GDP	C3'-C4'-C5'-O5'
48	UB	501	GDP	C3'-C4'-C5'-O5'
48	VF	501	GDP	C3'-C4'-C5'-O5'
46	GI	501	GTP	C3'-C4'-C5'-O5'
46	JI	501	GTP	O4'-C4'-C5'-O5'
46	NM	501	GTP	O4'-C4'-C5'-O5'
46	OE	501	GTP	O4'-C4'-C5'-O5'
46	PM	501	GTP	O4'-C4'-C5'-O5'
46	VK	501	GTP	O4'-C4'-C5'-O5'
48	IJ	502	GDP	C3'-C4'-C5'-O5'
48	IN	501	GDP	C3'-C4'-C5'-O5'
46	GE	501	GTP	C4'-C5'-O5'-PA
46	JG	501	GTP	C4'-C5'-O5'-PA
46	MI	501	GTP	C4'-C5'-O5'-PA
46	PG	501	GTP	C4'-C5'-O5'-PA
46	QA	501	GTP	C4'-C5'-O5'-PA
46	QC	501	GTP	C4'-C5'-O5'-PA
46	QK	501	GTP	C4'-C5'-O5'-PA
46	RG	501	GTP	C4'-C5'-O5'-PA
46	UM	501	GTP	C4'-C5'-O5'-PA
46	BK	501	GTP	C3'-C4'-C5'-O5'
46	HA	501	GTP	C3'-C4'-C5'-O5'
46	LM	501	GTP	C3'-C4'-C5'-O5'
46	QA	501	GTP	C3'-C4'-C5'-O5'
46	SC	501	GTP	O4'-C4'-C5'-O5'
46	WC	501	GTP	C3'-C4'-C5'-O5'
48	UB	501	GDP	O4'-C4'-C5'-O5'
48	UJ	501	GDP	C3'-C4'-C5'-O5'
48	NB	501	GDP	PA-O3A-PB-O1B
48	NN	501	GDP	PA-O3A-PB-O1B
46	PK	501	GTP	C4'-C5'-O5'-PA
46	RA	501	GTP	C4'-C5'-O5'-PA
46	QG	501	GTP	PG-O3B-PB-O3A
46	AE	501	GTP	PA-O3A-PB-O1B
46	CI	501	GTP	PA-O3A-PB-O1B
46	CK	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
46	EG	501	GTP	PB-O3A-PA-O1A
46	GI	501	GTP	PA-O3A-PB-O1B
46	HC	501	GTP	PB-O3A-PA-O1A
46	ID	501	GTP	PB-O3A-PA-O1A
46	LM	501	GTP	PB-O3A-PA-O1A
46	MA	501	GTP	PB-O3A-PA-O1A
46	NE	501	GTP	PA-O3A-PB-O1B
46	PI	501	GTP	PB-O3A-PA-O1A
46	QA	501	GTP	PA-O3A-PB-O1B
46	TA	501	GTP	PB-O3A-PA-O1A
46	TK	501	GTP	PA-O3A-PB-O1B
46	TM	501	GTP	PA-O3A-PB-O1B
46	UG	501	GTP	PB-O3A-PA-O1A
46	UK	501	GTP	PA-O3A-PB-O1B
46	GM	501	GTP	C3'-C4'-C5'-O5'
46	LK	501	GTP	C3'-C4'-C5'-O5'
48	JN	501	GDP	O4'-C4'-C5'-O5'
48	VF	501	GDP	O4'-C4'-C5'-O5'
46	AI	501	GTP	C4'-C5'-O5'-PA
46	AM	501	GTP	C4'-C5'-O5'-PA
46	BE	501	GTP	C4'-C5'-O5'-PA
46	BK	501	GTP	C4'-C5'-O5'-PA
46	CA	501	GTP	C4'-C5'-O5'-PA
46	CI	501	GTP	C4'-C5'-O5'-PA
46	CM	501	GTP	C4'-C5'-O5'-PA
46	EI	501	GTP	C4'-C5'-O5'-PA
46	FG	501	GTP	C4'-C5'-O5'-PA
46	IG	501	GTP	C4'-C5'-O5'-PA
46	II	501	GTP	C4'-C5'-O5'-PA
46	IK	501	GTP	C4'-C5'-O5'-PA
46	JI	501	GTP	C4'-C5'-O5'-PA
46	KM	501	GTP	C4'-C5'-O5'-PA
46	PI	501	GTP	C4'-C5'-O5'-PA
46	QM	501	GTP	C4'-C5'-O5'-PA
46	RE	501	GTP	C4'-C5'-O5'-PA
46	RK	501	GTP	C4'-C5'-O5'-PA
46	UE	501	GTP	C4'-C5'-O5'-PA
46	UG	501	GTP	C4'-C5'-O5'-PA
46	WC	501	GTP	C4'-C5'-O5'-PA
46	UC	501	GTP	O4'-C4'-C5'-O5'
48	IJ	502	GDP	O4'-C4'-C5'-O5'
48	NH	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
48	NL	501	GDP	O4'-C4'-C5'-O5'
46	AK	501	GTP	C4'-C5'-O5'-PA
46	BA	501	GTP	C4'-C5'-O5'-PA
46	BI	501	GTP	C4'-C5'-O5'-PA
46	BM	501	GTP	C4'-C5'-O5'-PA
46	DB	502	GTP	C4'-C5'-O5'-PA
46	DI	501	GTP	C4'-C5'-O5'-PA
46	EA	501	GTP	C4'-C5'-O5'-PA
46	FK	501	GTP	C4'-C5'-O5'-PA
46	GM	501	GTP	C4'-C5'-O5'-PA
46	HG	501	GTP	C4'-C5'-O5'-PA
46	ID	501	GTP	C4'-C5'-O5'-PA
46	IE	501	GTP	C4'-C5'-O5'-PA
46	LG	501	GTP	C4'-C5'-O5'-PA
46	LI	501	GTP	C4'-C5'-O5'-PA
46	MA	501	GTP	C4'-C5'-O5'-PA
46	MK	501	GTP	C4'-C5'-O5'-PA
46	NE	501	GTP	C4'-C5'-O5'-PA
46	PE	501	GTP	C4'-C5'-O5'-PA
46	PM	501	GTP	C4'-C5'-O5'-PA
46	QI	501	GTP	C4'-C5'-O5'-PA
46	SE	501	GTP	C4'-C5'-O5'-PA
46	SG	501	GTP	C4'-C5'-O5'-PA
46	TE	501	GTP	C4'-C5'-O5'-PA
46	TM	501	GTP	C4'-C5'-O5'-PA
46	VG	501	GTP	C4'-C5'-O5'-PA
46	VM	501	GTP	C4'-C5'-O5'-PA
46	WE	501	GTP	C4'-C5'-O5'-PA
46	AA	501	GTP	PB-O3A-PA-O5'
46	AG	501	GTP	PB-O3A-PA-O5'
46	AK	501	GTP	PB-O3A-PA-O5'
46	BA	501	GTP	PB-O3A-PA-O5'
46	BI	501	GTP	PB-O3A-PA-O5'
46	BM	501	GTP	PB-O3A-PA-O5'
46	CE	501	GTP	PB-O3A-PA-O5'
46	DA	501	GTP	PB-O3A-PA-O5'
46	EA	501	GTP	PB-O3A-PA-O5'
46	HG	501	GTP	PB-O3A-PA-O5'
46	HM	501	GTP	PB-O3A-PA-O5'
46	ID	501	GTP	PB-O3A-PA-O5'
46	IE	501	GTP	PB-O3A-PA-O5'
46	IK	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
46	IM	501	GTP	PB-O3A-PA-O5'
46	JC	501	GTP	PB-O3A-PA-O5'
46	JI	501	GTP	PB-O3A-PA-O5'
46	LE	501	GTP	PB-O3A-PA-O5'
46	LG	501	GTP	PB-O3A-PA-O5'
46	LI	501	GTP	PB-O3A-PA-O5'
46	LM	501	GTP	PB-O3A-PA-O5'
46	NA	501	GTP	PB-O3A-PA-O5'
46	QG	501	GTP	PB-O3A-PA-O5'
46	SC	501	GTP	PB-O3A-PA-O5'
46	SI	501	GTP	PB-O3A-PA-O5'
46	TA	501	GTP	PB-O3A-PA-O5'
46	TI	501	GTP	PB-O3A-PA-O5'
46	UI	501	GTP	PB-O3A-PA-O5'
46	UK	501	GTP	PB-O3A-PA-O5'
46	VA	501	GTP	PB-O3A-PA-O5'
46	VC	501	GTP	PB-O3A-PA-O5'
46	VE	501	GTP	PB-O3A-PA-O5'
46	VM	501	GTP	PB-O3A-PA-O5'
46	WK	501	GTP	PB-O3A-PA-O5'
46	WM	501	GTP	PB-O3A-PA-O5'
46	UI	501	GTP	PG-O3B-PB-O3A
46	DA	501	GTP	C4'-C5'-O5'-PA
46	GL	501	GTP	C4'-C5'-O5'-PA
46	HM	501	GTP	C4'-C5'-O5'-PA
46	MM	501	GTP	C4'-C5'-O5'-PA
46	SI	501	GTP	C4'-C5'-O5'-PA
46	TK	501	GTP	C4'-C5'-O5'-PA
46	VE	501	GTP	C4'-C5'-O5'-PA
46	AA	501	GTP	PB-O3B-PG-O2G
46	LE	501	GTP	PB-O3B-PG-O3G
46	SA	501	GTP	PB-O3B-PG-O3G
46	SI	501	GTP	PB-O3B-PG-O3G
46	SM	501	GTP	PB-O3B-PG-O2G
46	VE	501	GTP	PB-O3B-PG-O2G
48	MB	501	GDP	PA-O3A-PB-O3B
46	AI	501	GTP	C5'-O5'-PA-O3A
46	CA	501	GTP	C5'-O5'-PA-O3A
46	CG	501	GTP	C5'-O5'-PA-O3A
46	DI	501	GTP	C5'-O5'-PA-O3A
46	EC	501	GTP	C5'-O5'-PA-O3A
46	EM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
46	FK	501	GTP	C5'-O5'-PA-O3A
46	GE	501	GTP	C5'-O5'-PA-O3A
46	HC	501	GTP	C5'-O5'-PA-O3A
46	ID	501	GTP	C5'-O5'-PA-O3A
46	IG	501	GTP	C5'-O5'-PA-O3A
46	II	501	GTP	C5'-O5'-PA-O3A
46	JK	501	GTP	C5'-O5'-PA-O3A
46	MM	501	GTP	C5'-O5'-PA-O3A
46	NG	501	GTP	C5'-O5'-PA-O3A
46	NK	501	GTP	C5'-O5'-PA-O3A
46	NM	501	GTP	C5'-O5'-PA-O3A
46	RA	501	GTP	C5'-O5'-PA-O3A
46	TK	501	GTP	C5'-O5'-PA-O3A
46	TM	501	GTP	C5'-O5'-PA-O3A
46	UM	501	GTP	C5'-O5'-PA-O3A
46	WE	501	GTP	C5'-O5'-PA-O3A
46	WI	501	GTP	C5'-O5'-PA-O3A
46	WM	501	GTP	C5'-O5'-PA-O3A
48	ED	501	GDP	C5'-O5'-PA-O3A
48	JH	501	GDP	C5'-O5'-PA-O3A
46	AM	501	GTP	C3'-C4'-C5'-O5'
46	BC	501	GTP	C3'-C4'-C5'-O5'
46	BI	501	GTP	C3'-C4'-C5'-O5'
46	DK	501	GTP	C3'-C4'-C5'-O5'
46	JG	501	GTP	O4'-C4'-C5'-O5'
46	NA	501	GTP	C3'-C4'-C5'-O5'
46	TK	501	GTP	C3'-C4'-C5'-O5'
48	IN	501	GDP	O4'-C4'-C5'-O5'
46	AM	501	GTP	PA-O3A-PB-O2B
46	EC	501	GTP	PA-O3A-PB-O2B
46	EG	501	GTP	PA-O3A-PB-O1B
46	EM	501	GTP	PA-O3A-PB-O1B
46	GB	501	GTP	PB-O3A-PA-O2A
46	HE	501	GTP	PA-O3A-PB-O2B
46	HI	501	GTP	PB-O3A-PA-O1A
46	II	501	GTP	PA-O3A-PB-O2B
46	JI	501	GTP	PA-O3A-PB-O2B
46	KA	501	GTP	PA-O3A-PB-O2B
46	KC	501	GTP	PA-O3A-PB-O2B
46	KJ	501	GTP	PA-O3A-PB-O2B
46	LK	501	GTP	PA-O3A-PB-O2B
46	MI	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
46	MM	501	GTP	PA-O3A-PB-O2B
46	NA	501	GTP	PA-O3A-PB-O1B
46	PE	501	GTP	PA-O3A-PB-O2B
46	PE	501	GTP	PB-O3A-PA-O2A
46	PG	501	GTP	PA-O3A-PB-O2B
46	PK	501	GTP	PA-O3A-PB-O2B
46	QE	501	GTP	PA-O3A-PB-O2B
46	QK	501	GTP	PA-O3A-PB-O2B
46	SA	501	GTP	PA-O3A-PB-O2B
46	SK	501	GTP	PA-O3A-PB-O2B
46	UG	501	GTP	PA-O3A-PB-O1B
46	VG	501	GTP	PB-O3A-PA-O2A
46	WE	501	GTP	PA-O3A-PB-O1B
46	WI	501	GTP	PA-O3A-PB-O2B
46	AA	501	GTP	C4'-C5'-O5'-PA
46	AE	501	GTP	C4'-C5'-O5'-PA
46	DE	501	GTP	C4'-C5'-O5'-PA
46	FE	501	GTP	C4'-C5'-O5'-PA
46	GD	501	GTP	C4'-C5'-O5'-PA
46	HE	501	GTP	C4'-C5'-O5'-PA
46	LE	501	GTP	C4'-C5'-O5'-PA
46	LK	501	GTP	C4'-C5'-O5'-PA
46	LM	501	GTP	C4'-C5'-O5'-PA
46	QG	501	GTP	C4'-C5'-O5'-PA
46	RC	501	GTP	C4'-C5'-O5'-PA
46	UA	501	GTP	C4'-C5'-O5'-PA
46	VK	501	GTP	C4'-C5'-O5'-PA
46	WI	501	GTP	C4'-C5'-O5'-PA
46	AA	501	GTP	C5'-O5'-PA-O1A
46	AI	501	GTP	C5'-O5'-PA-O2A
46	CI	501	GTP	C5'-O5'-PA-O2A
46	DB	502	GTP	C5'-O5'-PA-O1A
46	DI	501	GTP	C5'-O5'-PA-O2A
46	DM	501	GTP	C5'-O5'-PA-O2A
46	EA	501	GTP	C5'-O5'-PA-O1A
46	EI	501	GTP	C5'-O5'-PA-O1A
46	FK	501	GTP	C5'-O5'-PA-O2A
46	HC	501	GTP	C5'-O5'-PA-O2A
46	HI	501	GTP	C5'-O5'-PA-O2A
46	IA	501	GTP	C5'-O5'-PA-O2A
46	IG	501	GTP	C5'-O5'-PA-O2A
46	II	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
46	IK	501	GTP	C5'-O5'-PA-O2A
46	JC	501	GTP	C5'-O5'-PA-O1A
46	JK	501	GTP	C5'-O5'-PA-O1A
46	KC	501	GTP	C5'-O5'-PA-O2A
46	KK	501	GTP	C5'-O5'-PA-O2A
46	KM	501	GTP	C5'-O5'-PA-O1A
46	LE	501	GTP	C5'-O5'-PA-O1A
46	LG	501	GTP	C5'-O5'-PA-O1A
46	MA	501	GTP	C5'-O5'-PA-O1A
46	MG	501	GTP	C5'-O5'-PA-O2A
46	MM	501	GTP	C5'-O5'-PA-O2A
46	NA	501	GTP	C5'-O5'-PA-O1A
46	NC	501	GTP	C5'-O5'-PA-O1A
46	NE	501	GTP	C5'-O5'-PA-O2A
46	NG	501	GTP	C5'-O5'-PA-O1A
46	NM	501	GTP	C5'-O5'-PA-O1A
46	PM	501	GTP	C5'-O5'-PA-O2A
46	QA	501	GTP	C5'-O5'-PA-O2A
46	QC	501	GTP	C5'-O5'-PA-O1A
46	QI	501	GTP	C5'-O5'-PA-O2A
46	QM	501	GTP	C5'-O5'-PA-O2A
46	RK	501	GTP	C5'-O5'-PA-O2A
46	SM	501	GTP	C5'-O5'-PA-O2A
46	TG	501	GTP	C5'-O5'-PA-O2A
46	TM	501	GTP	C5'-O5'-PA-O2A
46	UG	501	GTP	C5'-O5'-PA-O2A
46	UM	501	GTP	C5'-O5'-PA-O2A
46	VI	501	GTP	C5'-O5'-PA-O2A
46	VK	501	GTP	C5'-O5'-PA-O2A
46	WE	501	GTP	C5'-O5'-PA-O2A
46	WM	501	GTP	C5'-O5'-PA-O1A
48	CN	501	GDP	C5'-O5'-PA-O1A
48	EH	501	GDP	C5'-O5'-PA-O1A
48	EJ	501	GDP	C5'-O5'-PA-O2A
48	FN	501	GDP	C5'-O5'-PA-O2A
48	JD	501	GDP	C5'-O5'-PA-O1A
48	LN	502	GDP	C5'-O5'-PA-O2A
48	MB	501	GDP	C5'-O5'-PA-O1A
46	AE	501	GTP	C3'-C4'-C5'-O5'
46	IK	501	GTP	C3'-C4'-C5'-O5'
46	JK	501	GTP	C3'-C4'-C5'-O5'
46	MI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
48	DL	501	GDP	C3'-C4'-C5'-O5'
48	LD	501	GDP	C3'-C4'-C5'-O5'
48	TF	501	GDP	C3'-C4'-C5'-O5'
46	HC	501	GTP	C4'-C5'-O5'-PA
46	KA	501	GTP	C4'-C5'-O5'-PA
46	SC	501	GTP	C4'-C5'-O5'-PA
46	SM	501	GTP	C4'-C5'-O5'-PA
46	UC	501	GTP	C4'-C5'-O5'-PA
46	VI	501	GTP	C4'-C5'-O5'-PA
46	FG	501	GTP	C3'-C4'-C5'-O5'
46	GI	501	GTP	O4'-C4'-C5'-O5'
46	KE	501	GTP	C3'-C4'-C5'-O5'
46	LK	501	GTP	O4'-C4'-C5'-O5'
46	LM	501	GTP	O4'-C4'-C5'-O5'
46	QA	501	GTP	O4'-C4'-C5'-O5'
46	WI	501	GTP	C3'-C4'-C5'-O5'
48	LJ	501	GDP	C3'-C4'-C5'-O5'
48	MN	502	GDP	PA-O3A-PB-O1B
48	OB	501	GDP	PA-O3A-PB-O1B
46	AG	501	GTP	C4'-C5'-O5'-PA
46	LB	501	GTP	C4'-C5'-O5'-PA
46	TI	501	GTP	C4'-C5'-O5'-PA
46	UC	501	GTP	PG-O3B-PB-O3A
46	WG	501	GTP	PG-O3B-PB-O3A
46	CI	501	GTP	C3'-C4'-C5'-O5'
48	MB	501	GDP	C3'-C4'-C5'-O5'
46	AI	501	GTP	PA-O3A-PB-O2B
46	BE	501	GTP	PA-O3A-PB-O2B
46	CG	501	GTP	PA-O3A-PB-O1B
46	CM	501	GTP	PA-O3A-PB-O2B
46	DG	501	GTP	PA-O3A-PB-O2B
46	DI	501	GTP	PA-O3A-PB-O2B
46	EE	501	GTP	PB-O3A-PA-O2A
46	FC	501	GTP	PA-O3A-PB-O2B
46	FG	501	GTP	PA-O3A-PB-O2B
46	FK	501	GTP	PA-O3A-PB-O1B
46	GD	501	GTP	PB-O3A-PA-O2A
46	GE	501	GTP	PA-O3A-PB-O2B
46	GM	501	GTP	PA-O3A-PB-O2B
46	IK	501	GTP	PA-O3A-PB-O2B
46	KJ	501	GTP	PB-O3A-PA-O1A
46	MC	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
46	ME	501	GTP	PA-O3A-PB-O2B
46	MG	501	GTP	PA-O3A-PB-O2B
46	MM	501	GTP	PB-O3A-PA-O2A
46	PC	501	GTP	PB-O3A-PA-O2A
46	PK	501	GTP	PB-O3A-PA-O2A
46	PM	501	GTP	PA-O3A-PB-O2B
46	QI	501	GTP	PA-O3A-PB-O1B
46	QM	501	GTP	PA-O3A-PB-O2B
46	RA	501	GTP	PA-O3A-PB-O2B
46	RC	501	GTP	PA-O3A-PB-O2B
46	RC	501	GTP	PB-O3A-PA-O1A
46	RG	501	GTP	PB-O3A-PA-O1A
46	RK	501	GTP	PA-O3A-PB-O2B
46	TC	501	GTP	PB-O3A-PA-O1A
46	TE	501	GTP	PB-O3A-PA-O2A
46	UE	501	GTP	PA-O3A-PB-O2B
46	VG	501	GTP	PA-O3A-PB-O2B
46	WI	501	GTP	PB-O3A-PA-O2A
48	EN	501	GDP	PB-O3A-PA-O2A
48	GL	502	GDP	PB-O3A-PA-O2A
46	EE	501	GTP	C4'-C5'-O5'-PA
46	EK	501	GTP	C4'-C5'-O5'-PA
46	IM	501	GTP	C4'-C5'-O5'-PA
46	NG	501	GTP	C4'-C5'-O5'-PA
46	OA	501	GTP	C4'-C5'-O5'-PA
46	TG	501	GTP	C4'-C5'-O5'-PA
46	BE	501	GTP	C3'-C4'-C5'-O5'
46	EE	501	GTP	C3'-C4'-C5'-O5'
46	KM	501	GTP	C3'-C4'-C5'-O5'
46	OC	501	GTP	C3'-C4'-C5'-O5'
48	DF	501	GDP	C3'-C4'-C5'-O5'
46	HA	501	GTP	C4'-C5'-O5'-PA
46	NI	501	GTP	C4'-C5'-O5'-PA
46	WG	501	GTP	C4'-C5'-O5'-PA
46	DI	501	GTP	C3'-C4'-C5'-O5'
46	NA	501	GTP	O4'-C4'-C5'-O5'
46	RK	501	GTP	C3'-C4'-C5'-O5'
46	WC	501	GTP	O4'-C4'-C5'-O5'
48	SB	501	GDP	PA-O3A-PB-O1B
46	CC	501	GTP	C4'-C5'-O5'-PA
46	UI	501	GTP	C4'-C5'-O5'-PA
46	BK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
46	QE	501	GTP	C3'-C4'-C5'-O5'
46	BE	501	GTP	PA-O3A-PB-O1B
46	CK	501	GTP	PA-O3A-PB-O2B
46	DA	501	GTP	PA-O3A-PB-O1B
46	GB	501	GTP	PA-O3A-PB-O2B
46	GI	501	GTP	PA-O3A-PB-O2B
46	HI	501	GTP	PG-O3B-PB-O2B
46	IE	501	GTP	PA-O3A-PB-O1B
46	II	501	GTP	PB-O3A-PA-O2A
46	LM	501	GTP	PA-O3A-PB-O1B
46	OG	501	GTP	C4'-C5'-O5'-PA
46	PK	501	GTP	PB-O3A-PA-O1A
46	QA	501	GTP	PA-O3A-PB-O2B
46	QA	501	GTP	PB-O3A-PA-O1A
46	RK	501	GTP	PA-O3A-PB-O1B
46	RK	501	GTP	PB-O3A-PA-O1A
46	SA	501	GTP	C4'-C5'-O5'-PA
46	TC	501	GTP	PB-O3A-PA-O2A
46	TM	501	GTP	PB-O3A-PA-O2A
46	UC	501	GTP	PB-O3A-PA-O1A
46	UE	501	GTP	PB-O3A-PA-O1A
46	UG	501	GTP	PA-O3A-PB-O2B
46	VK	501	GTP	PA-O3A-PB-O1B
46	WA	501	GTP	PA-O3A-PB-O1B
46	AE	501	GTP	O4'-C4'-C5'-O5'
46	AM	501	GTP	O4'-C4'-C5'-O5'
46	BI	501	GTP	O4'-C4'-C5'-O5'
46	IK	501	GTP	O4'-C4'-C5'-O5'
46	LC	501	GTP	C3'-C4'-C5'-O5'
46	MI	501	GTP	O4'-C4'-C5'-O5'
46	NG	501	GTP	C3'-C4'-C5'-O5'
46	OL	501	GTP	C3'-C4'-C5'-O5'
46	TK	501	GTP	O4'-C4'-C5'-O5'
48	DL	501	GDP	O4'-C4'-C5'-O5'
48	RL	501	GDP	C3'-C4'-C5'-O5'
48	VL	501	GDP	C3'-C4'-C5'-O5'
46	DE	501	GTP	PB-O3A-PA-O5'
46	EG	501	GTP	PB-O3A-PA-O5'
46	PI	501	GTP	PB-O3A-PA-O5'
46	TG	501	GTP	PB-O3A-PA-O5'
46	WG	501	GTP	PB-O3A-PA-O5'
46	IA	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
46	IG	501	GTP	C3'-C4'-C5'-O5'
46	JK	501	GTP	O4'-C4'-C5'-O5'
48	AB	502	GDP	C3'-C4'-C5'-O5'
48	TF	501	GDP	O4'-C4'-C5'-O5'
46	AA	501	GTP	PB-O3B-PG-O1G
46	DE	501	GTP	PB-O3B-PG-O1G
46	HA	501	GTP	PB-O3B-PG-O1G
46	LB	501	GTP	PB-O3B-PG-O1G
46	VA	501	GTP	PB-O3B-PG-O1G
46	VI	501	GTP	PB-O3B-PG-O1G
46	VM	501	GTP	PB-O3B-PG-O1G
46	GB	501	GTP	C4'-C5'-O5'-PA
46	HA	501	GTP	O4'-C4'-C5'-O5'
46	QI	501	GTP	C3'-C4'-C5'-O5'
48	LJ	501	GDP	O4'-C4'-C5'-O5'
46	BA	501	GTP	PB-O3B-PG-O2G
46	GL	501	GTP	PB-O3B-PG-O2G
46	JC	501	GTP	PB-O3B-PG-O2G
46	LB	501	GTP	PB-O3B-PG-O2G
46	LE	501	GTP	PB-O3B-PG-O2G
46	NA	501	GTP	PB-O3B-PG-O2G
46	SA	501	GTP	PB-O3B-PG-O2G
46	SI	501	GTP	PB-O3B-PG-O2G
46	TI	501	GTP	PB-O3B-PG-O2G
46	VA	501	GTP	PB-O3B-PG-O2G
46	VI	501	GTP	PB-O3B-PG-O2G
46	WK	501	GTP	PB-O3B-PG-O2G
48	MB	501	GDP	PA-O3A-PB-O2B
46	AC	501	GTP	C5'-O5'-PA-O3A
46	AM	501	GTP	C5'-O5'-PA-O3A
46	BE	501	GTP	C5'-O5'-PA-O3A
46	CC	501	GTP	C5'-O5'-PA-O3A
46	CK	501	GTP	C5'-O5'-PA-O3A
46	DA	501	GTP	C5'-O5'-PA-O3A
46	FC	501	GTP	C5'-O5'-PA-O3A
46	FG	501	GTP	C5'-O5'-PA-O3A
46	FM	501	GTP	C5'-O5'-PA-O3A
46	GM	501	GTP	C5'-O5'-PA-O3A
46	HA	501	GTP	C5'-O5'-PA-O3A
46	HM	501	GTP	C5'-O5'-PA-O3A
46	IE	501	GTP	C5'-O5'-PA-O3A
46	IM	501	GTP	C5'-O5'-PA-O3A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
46	KA	501	GTP	C5'-O5'-PA-O3A
46	KG	501	GTP	C5'-O5'-PA-O3A
46	KJ	501	GTP	C5'-O5'-PA-O3A
46	ME	501	GTP	C5'-O5'-PA-O3A
46	MK	501	GTP	C5'-O5'-PA-O3A
46	NE	501	GTP	C5'-O5'-PA-O3A
46	OA	501	GTP	C5'-O5'-PA-O3A
46	OC	501	GTP	C5'-O5'-PA-O3A
46	OG	501	GTP	C5'-O5'-PA-O3A
46	OI	501	GTP	C5'-O5'-PA-O3A
46	OM	501	GTP	C5'-O5'-PA-O3A
46	PE	501	GTP	C5'-O5'-PA-O3A
46	PG	501	GTP	C5'-O5'-PA-O3A
46	QK	501	GTP	C5'-O5'-PA-O3A
46	RM	501	GTP	C5'-O5'-PA-O3A
46	SG	501	GTP	C5'-O5'-PA-O3A
46	SI	501	GTP	C5'-O5'-PA-O3A
46	TA	501	GTP	C5'-O5'-PA-O3A
46	VC	501	GTP	C5'-O5'-PA-O3A
46	WA	501	GTP	C5'-O5'-PA-O3A
48	BF	502	GDP	C5'-O5'-PA-O3A
48	CH	501	GDP	C5'-O5'-PA-O3A
48	CJ	501	GDP	C5'-O5'-PA-O3A
48	DD	501	GDP	C5'-O5'-PA-O3A
48	DH	501	GDP	C5'-O5'-PA-O3A
48	DJ	501	GDP	C5'-O5'-PA-O3A
48	FB	501	GDP	C5'-O5'-PA-O3A
48	FD	502	GDP	C5'-O5'-PA-O3A
48	FH	501	GDP	C5'-O5'-PA-O3A
48	GD	503	GDP	C5'-O5'-PA-O3A
48	HB	501	GDP	C5'-O5'-PA-O3A
48	HL	502	GDP	C5'-O5'-PA-O3A
48	HN	501	GDP	C5'-O5'-PA-O3A
48	JB	501	GDP	C5'-O5'-PA-O3A
48	KJ	502	GDP	C5'-O5'-PA-O3A
48	ML	501	GDP	C5'-O5'-PA-O3A
48	NF	501	GDP	C5'-O5'-PA-O3A
48	PJ	501	GDP	C5'-O5'-PA-O3A
48	QJ	501	GDP	C5'-O5'-PA-O3A
48	SF	501	GDP	C5'-O5'-PA-O3A
48	SJ	501	GDP	C5'-O5'-PA-O3A
48	TH	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
48	UJ	501	GDP	C5'-O5'-PA-O3A
48	VJ	501	GDP	C5'-O5'-PA-O3A
48	WB	501	GDP	C5'-O5'-PA-O3A
46	PG	501	GTP	C3'-C4'-C5'-O5'
48	DD	501	GDP	C3'-C4'-C5'-O5'
48	FF	502	GDP	C3'-C4'-C5'-O5'
48	MJ	502	GDP	C3'-C4'-C5'-O5'
48	PF	501	GDP	C3'-C4'-C5'-O5'
46	AE	501	GTP	PA-O3A-PB-O2B
46	AE	501	GTP	PB-O3A-PA-O1A
46	BM	501	GTP	PB-O3A-PA-O2A
46	CI	501	GTP	PA-O3A-PB-O2B
46	CM	501	GTP	PA-O3A-PB-O1B
46	DM	501	GTP	PA-O3A-PB-O2B
46	EC	501	GTP	PA-O3A-PB-O1B
46	EM	501	GTP	PA-O3A-PB-O2B
46	FE	501	GTP	PB-O3A-PA-O1A
46	FG	501	GTP	PA-O3A-PB-O1B
46	FI	501	GTP	PA-O3A-PB-O1B
46	FI	501	GTP	PA-O3A-PB-O2B
46	GB	501	GTP	PA-O3A-PB-O1B
46	GD	501	GTP	PB-O3A-PA-O1A
46	GE	501	GTP	PA-O3A-PB-O1B
46	GM	501	GTP	PA-O3A-PB-O1B
46	HG	501	GTP	PB-O3A-PA-O2A
46	II	501	GTP	PB-O3A-PA-O1A
46	IK	501	GTP	PA-O3A-PB-O1B
46	IM	501	GTP	PB-O3A-PA-O2A
46	JG	501	GTP	PA-O3A-PB-O2B
46	JI	501	GTP	PA-O3A-PB-O1B
46	KJ	501	GTP	PB-O3A-PA-O2A
46	KM	501	GTP	PG-O3B-PB-O2B
46	MC	501	GTP	PA-O3A-PB-O2B
46	MG	501	GTP	PG-O3B-PB-O2B
46	MM	501	GTP	PA-O3A-PB-O1B
46	MM	501	GTP	PB-O3A-PA-O1A
46	NE	501	GTP	PA-O3A-PB-O2B
46	OC	501	GTP	PB-O3A-PA-O2A
46	OE	501	GTP	PB-O3A-PA-O2A
46	PA	501	GTP	PA-O3A-PB-O1B
46	PA	501	GTP	PA-O3A-PB-O2B
46	PM	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
46	QA	501	GTP	PB-O3A-PA-O2A
46	QE	501	GTP	PA-O3A-PB-O1B
46	QG	501	GTP	PB-O3A-PA-O2A
46	QK	501	GTP	PA-O3A-PB-O1B
46	RA	501	GTP	PA-O3A-PB-O1B
46	RG	501	GTP	PB-O3A-PA-O2A
46	RI	501	GTP	PA-O3A-PB-O2B
46	SA	501	GTP	PG-O3B-PB-O2B
46	SI	501	GTP	PB-O3A-PA-O2A
46	SK	501	GTP	PA-O3A-PB-O1B
46	TE	501	GTP	PB-O3A-PA-O1A
46	TI	501	GTP	PB-O3A-PA-O1A
46	TK	501	GTP	PA-O3A-PB-O2B
46	UA	501	GTP	PB-O3A-PA-O1A
46	UC	501	GTP	PG-O3B-PB-O1B
46	UG	501	GTP	PB-O3A-PA-O2A
46	UI	501	GTP	PG-O3B-PB-O1B
46	UI	501	GTP	PB-O3A-PA-O2A
46	UK	501	GTP	PA-O3A-PB-O2B
46	VE	501	GTP	PB-O3A-PA-O1A
46	WE	501	GTP	PB-O3A-PA-O2A
46	WG	501	GTP	PG-O3B-PB-O1B
46	WI	501	GTP	PA-O3A-PB-O1B
46	WI	501	GTP	PB-O3A-PA-O1A
48	CB	501	GDP	PB-O3A-PA-O1A
48	CB	501	GDP	PB-O3A-PA-O2A
48	GL	502	GDP	PB-O3A-PA-O1A
48	JD	501	GDP	PB-O3A-PA-O1A
48	JD	501	GDP	PB-O3A-PA-O2A
46	NA	501	GTP	C4'-C5'-O5'-PA
46	TA	501	GTP	C4'-C5'-O5'-PA
46	VC	501	GTP	C4'-C5'-O5'-PA
46	BG	501	GTP	C5'-O5'-PA-O2A
46	FI	501	GTP	C5'-O5'-PA-O2A
46	GD	501	GTP	C5'-O5'-PA-O2A
46	HI	501	GTP	C5'-O5'-PA-O1A
46	JM	501	GTP	C5'-O5'-PA-O1A
46	PA	501	GTP	C5'-O5'-PA-O2A
46	RA	501	GTP	C5'-O5'-PA-O2A
46	TI	501	GTP	C5'-O5'-PA-O1A
48	AN	501	GDP	C5'-O5'-PA-O1A
48	BH	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
48	BL	502	GDP	C5'-O5'-PA-O1A
48	BN	501	GDP	C5'-O5'-PA-O1A
48	CF	501	GDP	C5'-O5'-PA-O1A
48	DF	501	GDP	C5'-O5'-PA-O1A
48	DL	501	GDP	C5'-O5'-PA-O1A
48	FF	502	GDP	C5'-O5'-PA-O1A
48	GF	501	GDP	C5'-O5'-PA-O1A
48	GJ	502	GDP	C5'-O5'-PA-O1A
48	HF	502	GDP	C5'-O5'-PA-O1A
48	HJ	501	GDP	C5'-O5'-PA-O1A
48	ID	502	GDP	C5'-O5'-PA-O1A
48	IJ	502	GDP	C5'-O5'-PA-O1A
48	IL	501	GDP	C5'-O5'-PA-O1A
48	IN	501	GDP	C5'-O5'-PA-O1A
48	JN	501	GDP	C5'-O5'-PA-O1A
48	KF	502	GDP	C5'-O5'-PA-O1A
48	KN	501	GDP	C5'-O5'-PA-O1A
48	LB	502	GDP	C5'-O5'-PA-O1A
48	LD	501	GDP	C5'-O5'-PA-O1A
48	LF	501	GDP	C5'-O5'-PA-O1A
48	MD	501	GDP	C5'-O5'-PA-O1A
48	MF	502	GDP	C5'-O5'-PA-O1A
48	MH	501	GDP	C5'-O5'-PA-O1A
48	NH	501	GDP	C5'-O5'-PA-O1A
48	NL	501	GDP	C5'-O5'-PA-O1A
48	NN	501	GDP	C5'-O5'-PA-O1A
48	OD	502	GDP	C5'-O5'-PA-O1A
48	OL	502	GDP	C5'-O5'-PA-O1A
48	ON	501	GDP	C5'-O5'-PA-O1A
48	PB	501	GDP	C5'-O5'-PA-O1A
48	PD	502	GDP	C5'-O5'-PA-O1A
48	PL	501	GDP	C5'-O5'-PA-O1A
48	QD	501	GDP	C5'-O5'-PA-O1A
48	QH	501	GDP	C5'-O5'-PA-O1A
48	RF	501	GDP	C5'-O5'-PA-O1A
48	RH	501	GDP	C5'-O5'-PA-O1A
48	RJ	501	GDP	C5'-O5'-PA-O1A
48	SD	501	GDP	C5'-O5'-PA-O1A
48	SL	501	GDP	C5'-O5'-PA-O1A
48	SN	501	GDP	C5'-O5'-PA-O1A
48	TN	501	GDP	C5'-O5'-PA-O1A
48	UL	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
48	VB	502	GDP	C5'-O5'-PA-O1A
48	VH	501	GDP	C5'-O5'-PA-O1A
48	VL	501	GDP	C5'-O5'-PA-O1A
48	VN	501	GDP	C5'-O5'-PA-O1A
48	WD	501	GDP	C5'-O5'-PA-O1A
48	WN	501	GDP	C5'-O5'-PA-O1A
46	EE	501	GTP	O4'-C4'-C5'-O5'
46	FG	501	GTP	O4'-C4'-C5'-O5'
46	NK	501	GTP	C3'-C4'-C5'-O5'
48	LD	501	GDP	O4'-C4'-C5'-O5'
48	MB	501	GDP	O4'-C4'-C5'-O5'
48	GJ	502	GDP	PA-O3A-PB-O1B
46	KG	501	GTP	C4'-C5'-O5'-PA
46	UK	501	GTP	C4'-C5'-O5'-PA
46	CE	501	GTP	C3'-C4'-C5'-O5'
46	CM	501	GTP	C3'-C4'-C5'-O5'
46	HE	501	GTP	C3'-C4'-C5'-O5'
48	ML	501	GDP	C3'-C4'-C5'-O5'
48	PL	501	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

315 monomers are involved in 1637 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
46	MI	501	GTP	1	0
48	IN	501	GDP	2	0
46	MM	501	GTP	4	0
46	DI	501	GTP	2	0
46	IK	501	GTP	5	0
48	PD	502	GDP	3	0
48	PN	501	GDP	5	0
48	EH	501	GDP	5	0
48	UL	501	GDP	1	0
46	PE	501	GTP	6	0
46	CE	501	GTP	8	0
46	BG	501	GTP	7	0
46	DG	501	GTP	6	0
48	OJ	501	GDP	7	0
48	DL	501	GDP	2	0
48	EB	501	GDP	7	0
46	GG	501	GTP	3	0
48	MH	501	GDP	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	RN	501	GDP	6	0
48	AH	501	GDP	3	0
46	EI	501	GTP	9	0
48	LH	501	GDP	4	0
46	WC	501	GTP	11	0
48	NH	501	GDP	2	0
46	HI	501	GTP	17	0
46	GE	501	GTP	4	0
46	LB	501	GTP	6	0
48	VJ	501	GDP	2	0
48	VF	501	GDP	2	0
46	RG	501	GTP	8	0
46	BM	501	GTP	1	0
46	GM	501	GTP	4	0
46	UG	501	GTP	9	0
46	AA	501	GTP	6	0
48	NF	501	GDP	3	0
46	DB	502	GTP	6	0
46	CK	501	GTP	6	0
48	CN	501	GDP	1	0
46	QE	501	GTP	7	0
46	BI	501	GTP	5	0
46	PG	501	GTP	4	0
46	GL	501	GTP	2	0
46	BA	501	GTP	8	0
48	NL	501	GDP	1	0
48	WD	501	GDP	3	0
46	KG	501	GTP	2	0
46	SI	501	GTP	6	0
48	CL	501	GDP	8	0
46	SG	501	GTP	8	0
46	UC	501	GTP	3	0
46	FK	501	GTP	8	0
48	BN	501	GDP	2	0
46	JI	501	GTP	3	0
46	QK	501	GTP	8	0
48	TL	501	GDP	10	0
48	OL	502	GDP	5	0
48	BF	502	GDP	11	0
48	DD	501	GDP	3	0
46	BC	501	GTP	7	0
46	TC	501	GTP	17	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	QD	501	GDP	4	0
48	EF	501	GDP	1	0
48	SN	501	GDP	4	0
46	OL	501	GTP	3	0
46	NE	501	GTP	7	0
48	OB	501	GDP	5	0
48	IB	501	GDP	4	0
48	TB	501	GDP	2	0
48	BD	502	GDP	6	0
48	WB	501	GDP	2	0
48	JJ	501	GDP	8	0
48	PJ	501	GDP	4	0
46	KJ	501	GTP	3	0
46	AI	501	GTP	6	0
46	WI	501	GTP	5	0
48	ED	501	GDP	4	0
46	JG	501	GTP	4	0
46	QM	501	GTP	10	0
46	WE	501	GTP	6	0
48	DH	501	GDP	4	0
46	NI	501	GTP	2	0
48	PF	501	GDP	2	0
46	RM	501	GTP	10	0
48	LL	501	GDP	3	0
46	RK	501	GTP	7	0
46	HM	501	GTP	4	0
48	EL	501	GDP	4	0
48	FJ	501	GDP	3	0
48	WL	501	GDP	3	0
46	MK	501	GTP	2	0
48	JF	501	GDP	3	0
48	ML	501	GDP	3	0
46	VG	501	GTP	6	0
46	HK	501	GTP	5	0
48	AL	502	GDP	2	0
46	SA	501	GTP	16	0
48	MN	502	GDP	4	0
48	SH	501	GDP	6	0
48	SL	501	GDP	4	0
48	TH	501	GDP	6	0
46	PM	501	GTP	5	0
46	FG	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	AF	501	GDP	2	0
46	UE	501	GTP	6	0
48	MJ	502	GDP	4	0
48	LD	501	GDP	1	0
46	FE	501	GTP	8	0
46	VM	501	GTP	9	0
46	FI	501	GTP	6	0
46	QI	501	GTP	7	0
48	QB	501	GDP	3	0
48	QL	501	GDP	6	0
46	EG	501	GTP	2	0
46	SC	501	GTP	8	0
48	TD	501	GDP	9	0
46	AE	501	GTP	4	0
48	UD	501	GDP	5	0
46	UA	501	GTP	10	0
48	WN	501	GDP	4	0
48	KD	501	GDP	4	0
48	CB	501	GDP	16	0
48	JH	501	GDP	7	0
48	IF	501	GDP	9	0
46	RC	501	GTP	5	0
48	BJ	502	GDP	8	0
46	TK	501	GTP	6	0
46	DA	501	GTP	10	0
46	GI	501	GTP	7	0
46	VC	501	GTP	3	0
46	ID	501	GTP	5	0
46	PK	501	GTP	10	0
46	AC	501	GTP	4	0
46	FM	501	GTP	3	0
46	SK	501	GTP	8	0
46	JC	501	GTP	4	0
46	TE	501	GTP	7	0
46	WG	501	GTP	6	0
46	WK	501	GTP	7	0
46	QC	501	GTP	15	0
48	VH	501	GDP	8	0
46	RE	501	GTP	4	0
48	SB	501	GDP	6	0
48	EJ	501	GDP	5	0
46	AG	501	GTP	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	RJ	501	GDP	10	0
46	GD	501	GTP	3	0
48	KN	501	GDP	3	0
48	FN	501	GDP	7	0
48	MF	502	GDP	2	0
48	QJ	501	GDP	2	0
48	JD	501	GDP	6	0
46	RI	501	GTP	10	0
48	HD	501	GDP	2	0
48	EN	501	GDP	2	0
48	OH	501	GDP	4	0
46	LI	501	GTP	7	0
48	RL	501	GDP	3	0
48	GN	501	GDP	2	0
46	SM	501	GTP	8	0
48	RH	501	GDP	4	0
48	UB	501	GDP	2	0
48	MD	501	GDP	3	0
48	FD	502	GDP	5	0
46	VE	501	GTP	7	0
48	KL	501	GDP	6	0
46	OA	501	GTP	2	0
48	HN	501	GDP	5	0
46	ME	501	GTP	3	0
48	JB	501	GDP	6	0
46	WM	501	GTP	7	0
48	ID	502	GDP	6	0
46	FA	501	GTP	5	0
46	BK	501	GTP	8	0
46	UM	501	GTP	5	0
46	BE	501	GTP	7	0
48	CH	501	GDP	1	0
48	JL	501	GDP	3	0
46	LE	501	GTP	2	0
48	HL	502	GDP	2	0
46	II	501	GTP	7	0
46	OC	501	GTP	4	0
48	NN	501	GDP	3	0
48	PH	501	GDP	4	0
48	FH	501	GDP	3	0
48	FL	501	GDP	1	0
48	AJ	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	DB	501	GDP	3	0
48	AB	502	GDP	3	0
46	EK	501	GTP	7	0
48	NB	501	GDP	3	0
48	RF	501	GDP	3	0
48	KF	502	GDP	6	0
46	UI	501	GTP	13	0
48	LN	502	GDP	5	0
48	GF	501	GDP	6	0
48	BL	502	GDP	3	0
46	JE	501	GTP	5	0
46	TA	501	GTP	16	0
46	PI	501	GTP	4	0
46	CI	501	GTP	6	0
46	EA	501	GTP	6	0
46	QG	501	GTP	10	0
48	CF	501	GDP	2	0
48	BB	501	GDP	2	0
48	GD	503	GDP	6	0
48	WH	501	GDP	5	0
46	OG	501	GTP	2	0
48	MB	501	GDP	3	0
48	QN	501	GDP	2	0
48	FB	501	GDP	1	0
48	CJ	501	GDP	2	0
48	VB	502	GDP	6	0
46	CA	501	GTP	5	0
48	VL	501	GDP	3	0
48	SJ	501	GDP	2	0
46	TM	501	GTP	11	0
46	UK	501	GTP	9	0
46	EC	501	GTP	12	0
46	KK	501	GTP	3	0
48	KJ	502	GDP	2	0
46	DE	501	GTP	8	0
48	BH	502	GDP	7	0
48	LB	502	GDP	4	0
46	OE	501	GTP	3	0
48	RD	501	GDP	1	0
46	JA	501	GTP	4	0
48	UF	501	GDP	4	0
48	WF	501	GDP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
46	HG	501	GTP	5	0
48	JN	501	GDP	4	0
48	AD	501	GDP	3	0
48	KH	501	GDP	7	0
46	EE	501	GTP	5	0
46	TG	501	GTP	9	0
46	MA	501	GTP	8	0
46	GB	501	GTP	4	0
48	PL	501	GDP	3	0
48	DJ	501	GDP	7	0
48	ON	501	GDP	5	0
46	NC	501	GTP	6	0
48	OF	501	GDP	2	0
48	AN	501	GDP	2	0
48	UN	501	GDP	4	0
46	HA	501	GTP	10	0
46	LC	501	GTP	3	0
48	HH	501	GDP	2	0
46	AM	501	GTP	4	0
46	SE	501	GTP	5	0
46	NM	501	GTP	4	0
46	IA	501	GTP	4	0
46	FC	501	GTP	2	0
48	DF	501	GDP	4	0
46	IM	501	GTP	6	0
46	IE	501	GTP	6	0
48	VN	501	GDP	4	0
46	HC	501	GTP	6	0
48	HJ	501	GDP	5	0
46	HE	501	GTP	3	0
46	CM	501	GTP	10	0
46	VK	501	GTP	7	0
48	UH	501	GDP	4	0
48	GH	502	GDP	4	0
46	LG	501	GTP	2	0
46	MC	501	GTP	5	0
48	GB	502	GDP	3	0
46	RA	501	GTP	5	0
46	JM	501	GTP	9	0
46	NK	501	GTP	4	0
46	KA	501	GTP	6	0
48	UJ	501	GDP	10	0

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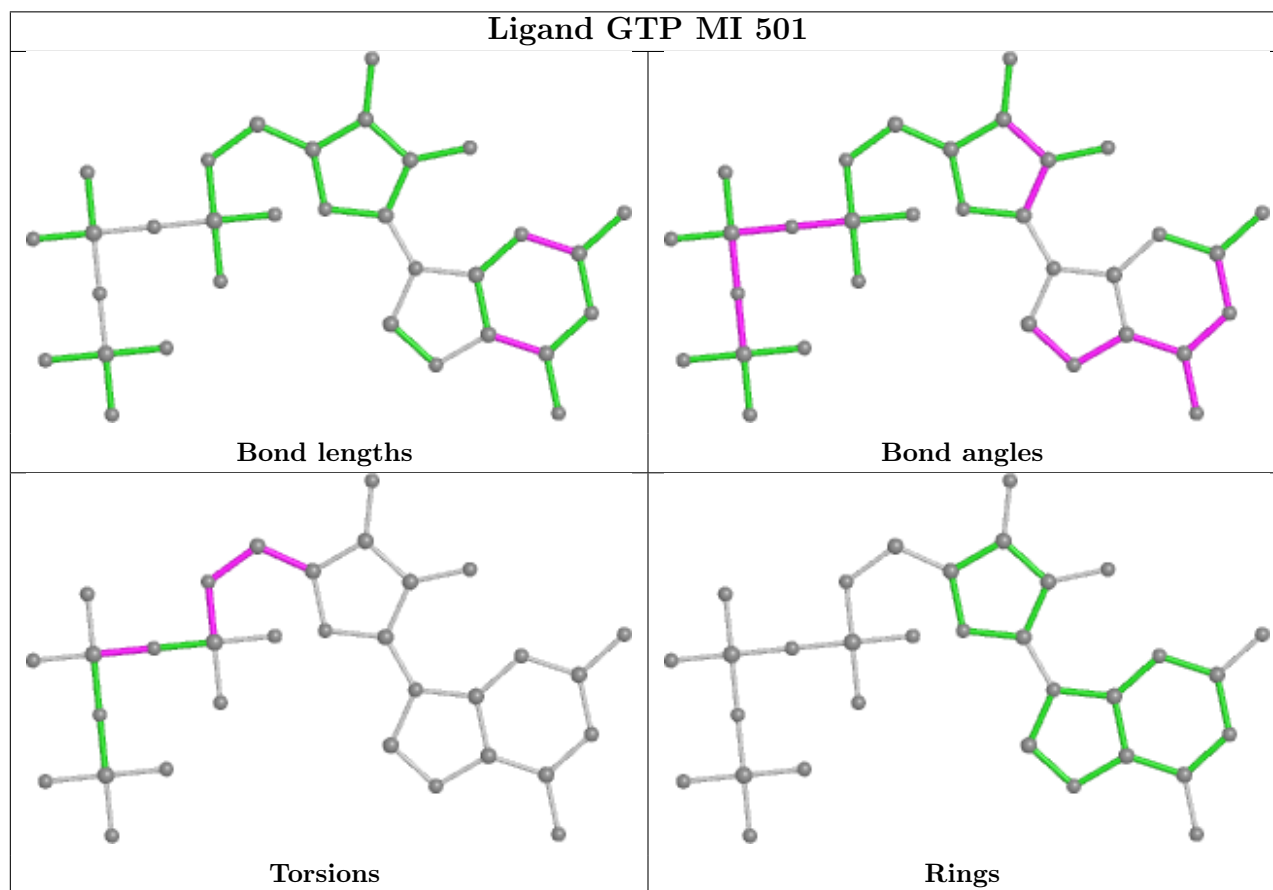
Mol	Chain	Res	Type	Clashes	Symm-Clashes
46	LM	501	GTP	5	0
48	LF	501	GDP	4	0
46	DM	501	GTP	12	0
46	NG	501	GTP	6	0
46	CG	501	GTP	6	0
48	SF	501	GDP	3	0
48	HF	502	GDP	7	0
48	SD	501	GDP	6	0
48	NJ	501	GDP	2	0
46	CC	501	GTP	8	0
48	QH	501	GDP	9	0
46	NA	501	GTP	4	0
46	KC	501	GTP	4	0
46	VI	501	GTP	7	0
46	MG	501	GTP	6	0
46	AK	501	GTP	3	0
48	WJ	502	GDP	8	0
48	CD	501	GDP	4	0
46	DK	501	GTP	6	0
46	KE	501	GTP	7	0
48	GL	502	GDP	2	0
46	VA	501	GTP	9	0
46	QA	501	GTP	13	0
48	IH	502	GDP	4	0
48	TF	501	GDP	1	0
46	PC	501	GTP	7	0
46	EM	501	GTP	10	0
48	IL	501	GDP	7	0
46	IG	501	GTP	10	0
48	TN	501	GDP	3	0
48	GJ	502	GDP	7	0
46	KM	501	GTP	3	0
48	IJ	502	GDP	1	0
48	ND	501	GDP	2	0
46	WA	501	GTP	8	0
48	TJ	501	GDP	6	0
48	QF	501	GDP	3	0
46	OM	501	GTP	5	0
48	KB	501	GDP	4	0
48	VD	501	GDP	4	0
46	JK	501	GTP	7	0
46	TI	501	GTP	6	0

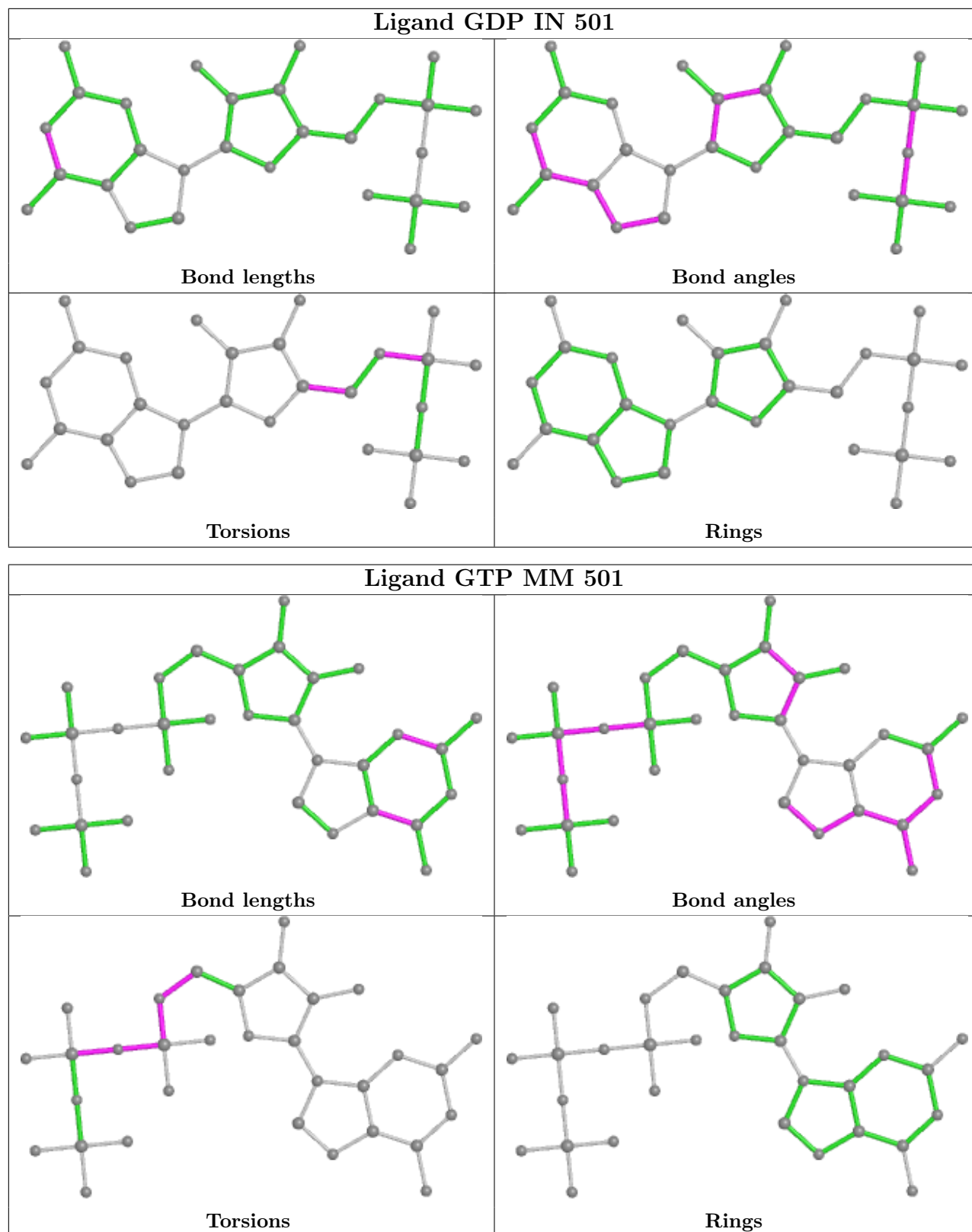
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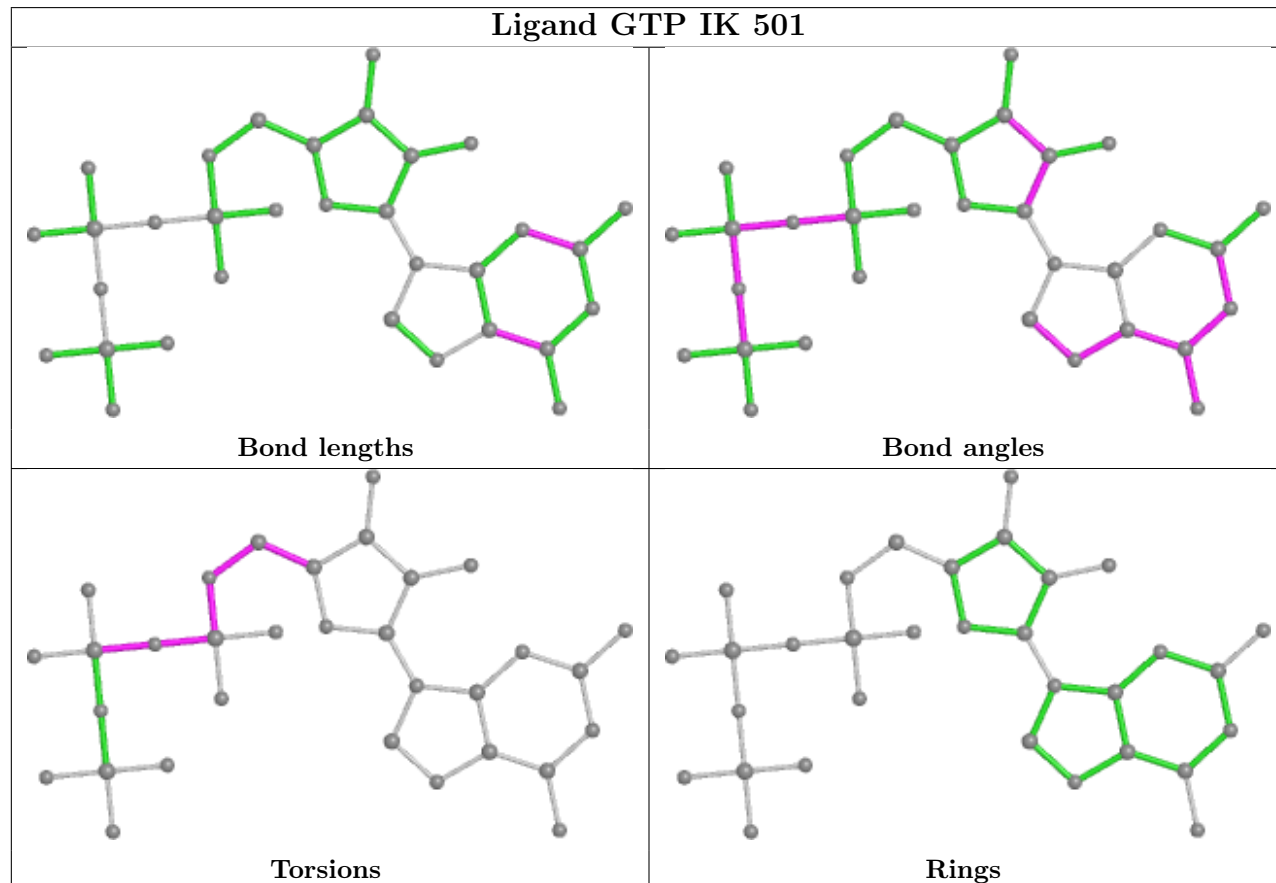
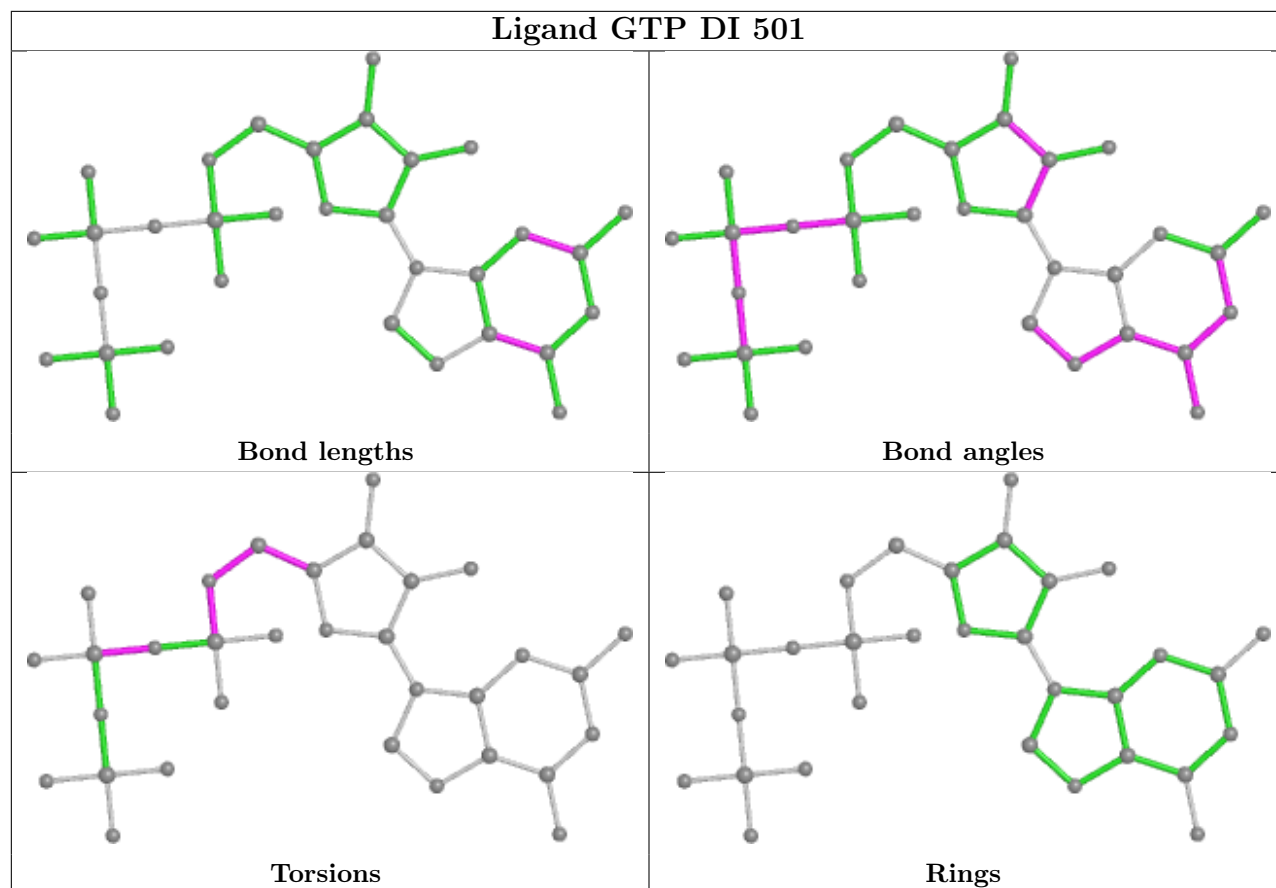
Mol	Chain	Res	Type	Clashes	Symm-Clashes
48	OD	502	GDP	6	0
48	LJ	501	GDP	2	0
46	PA	501	GTP	5	0

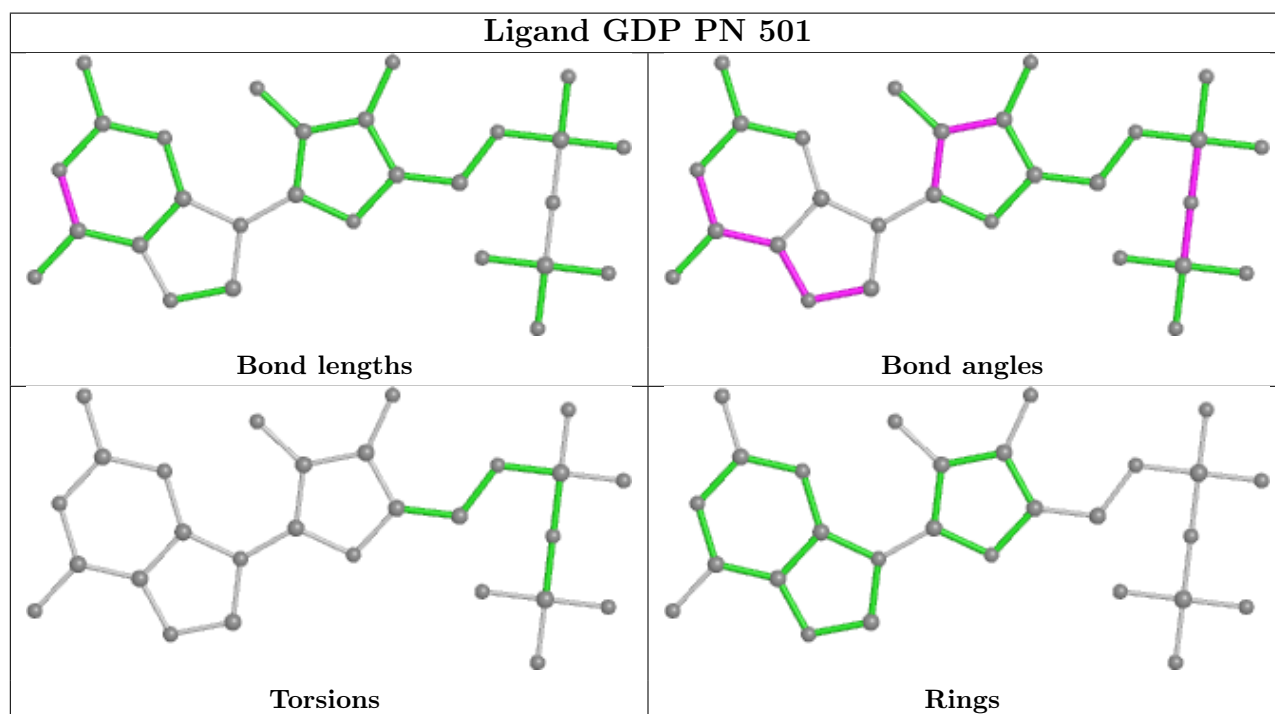
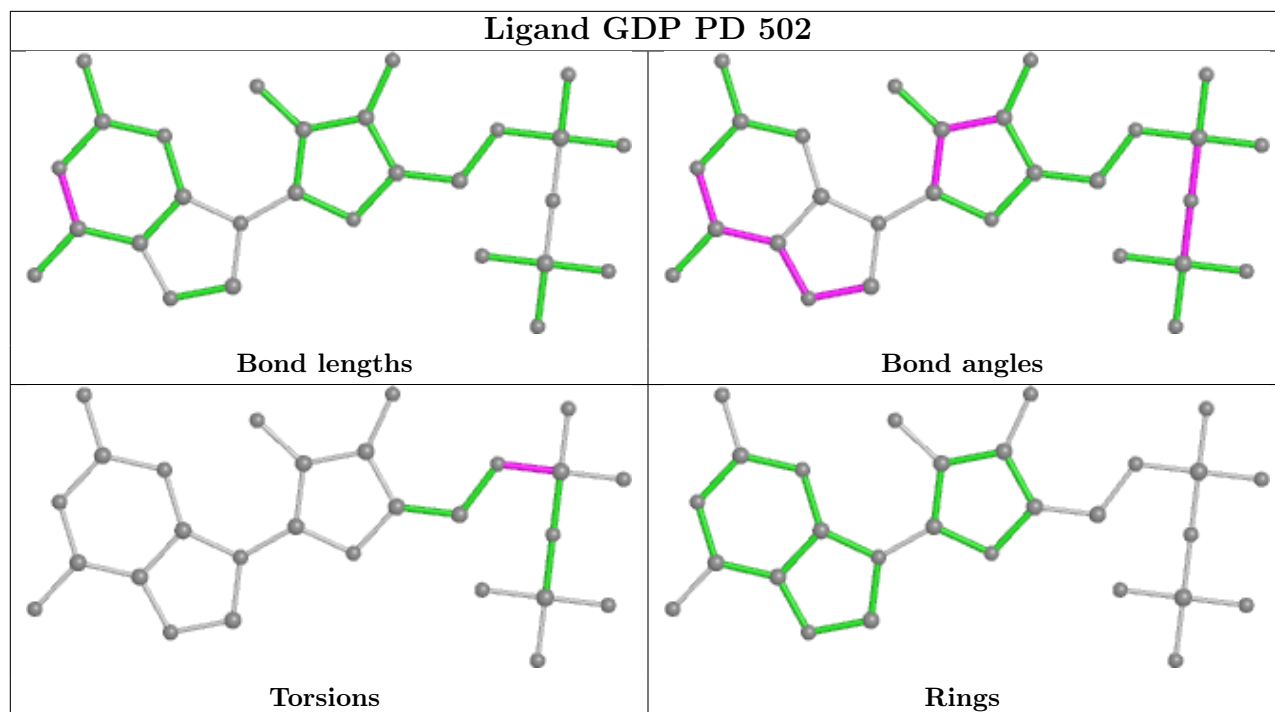
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

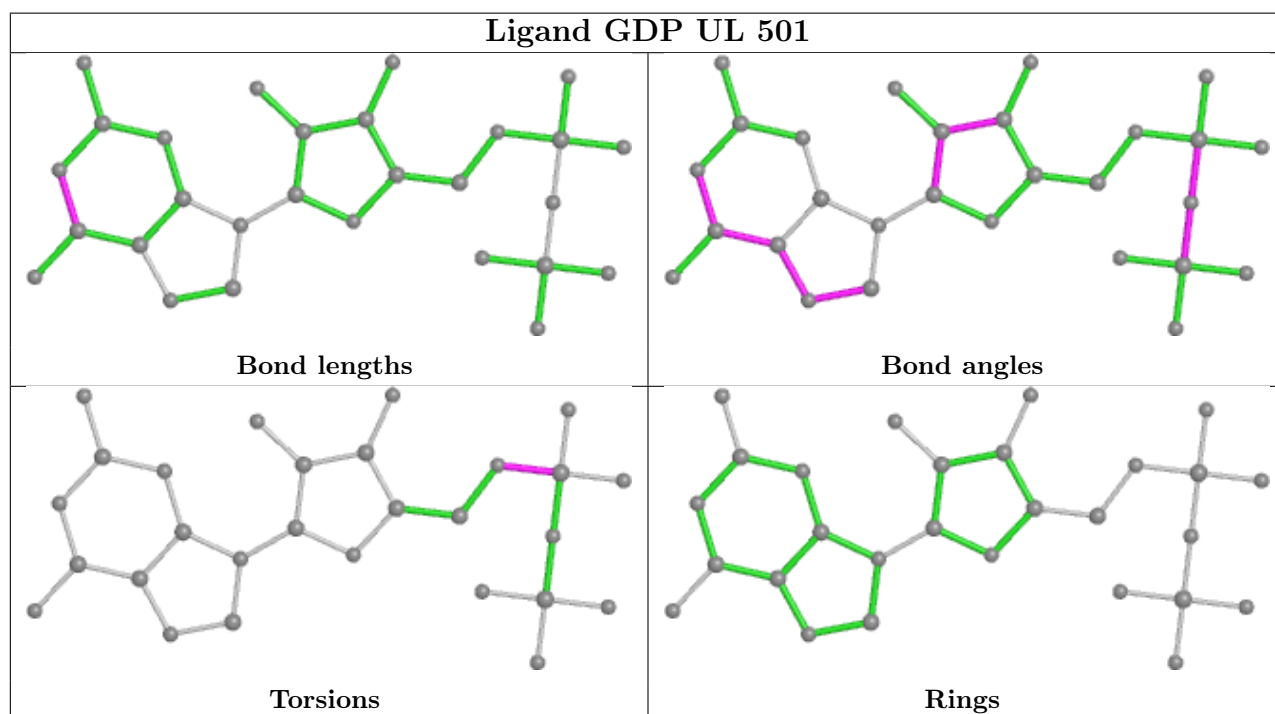
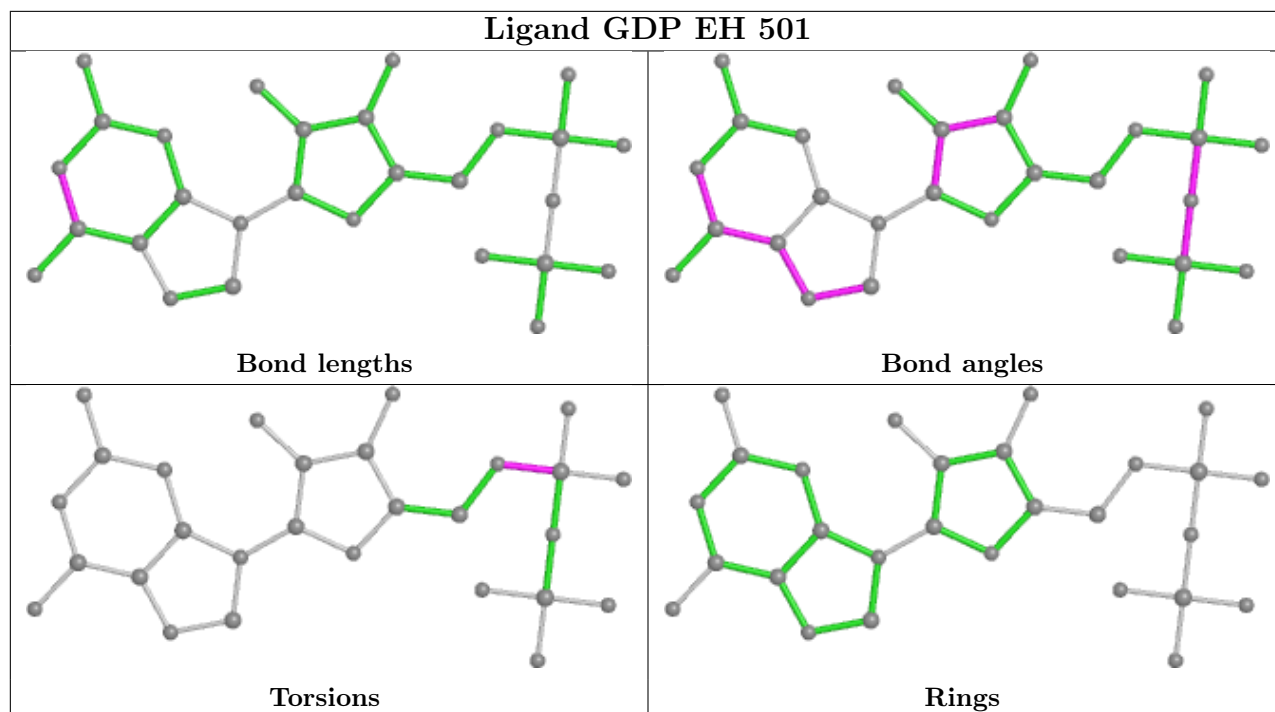


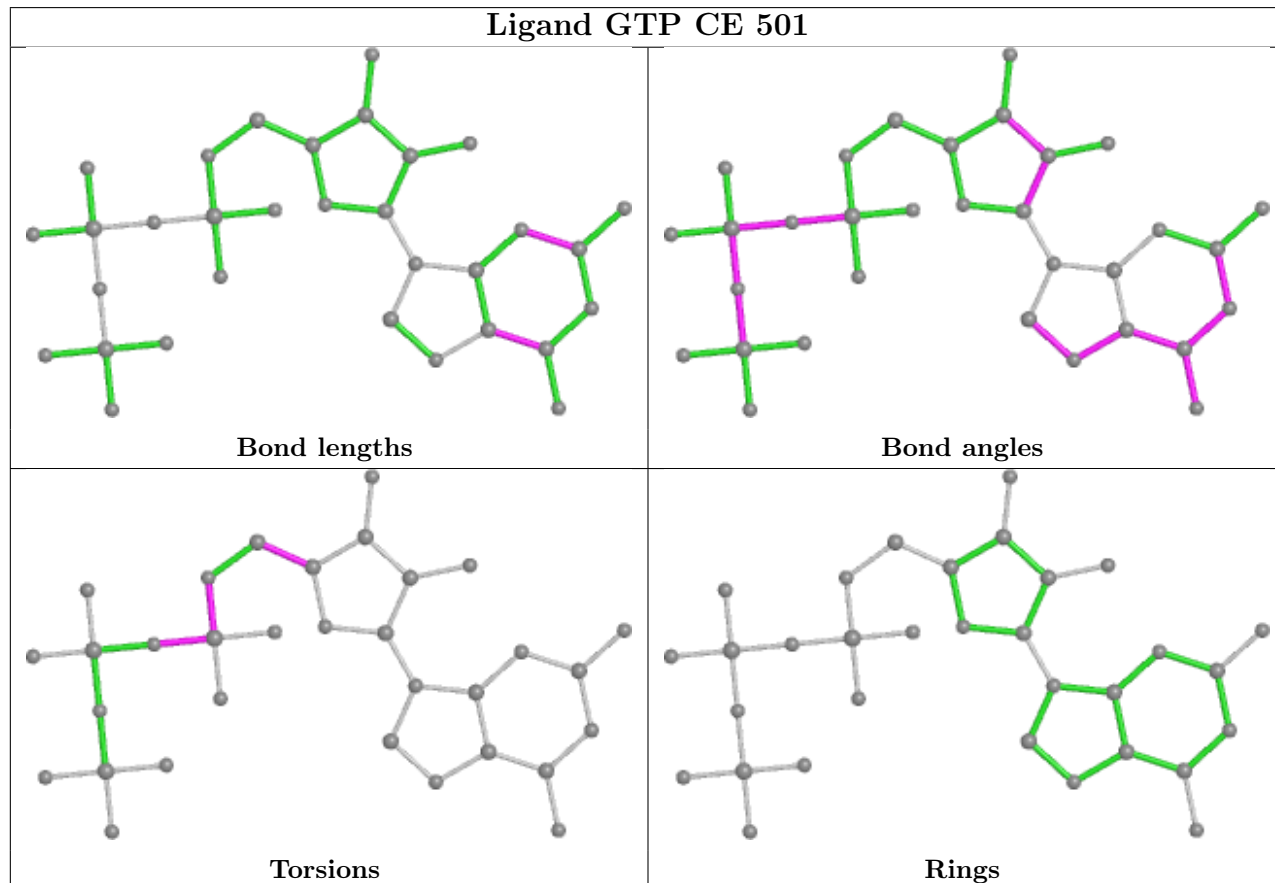
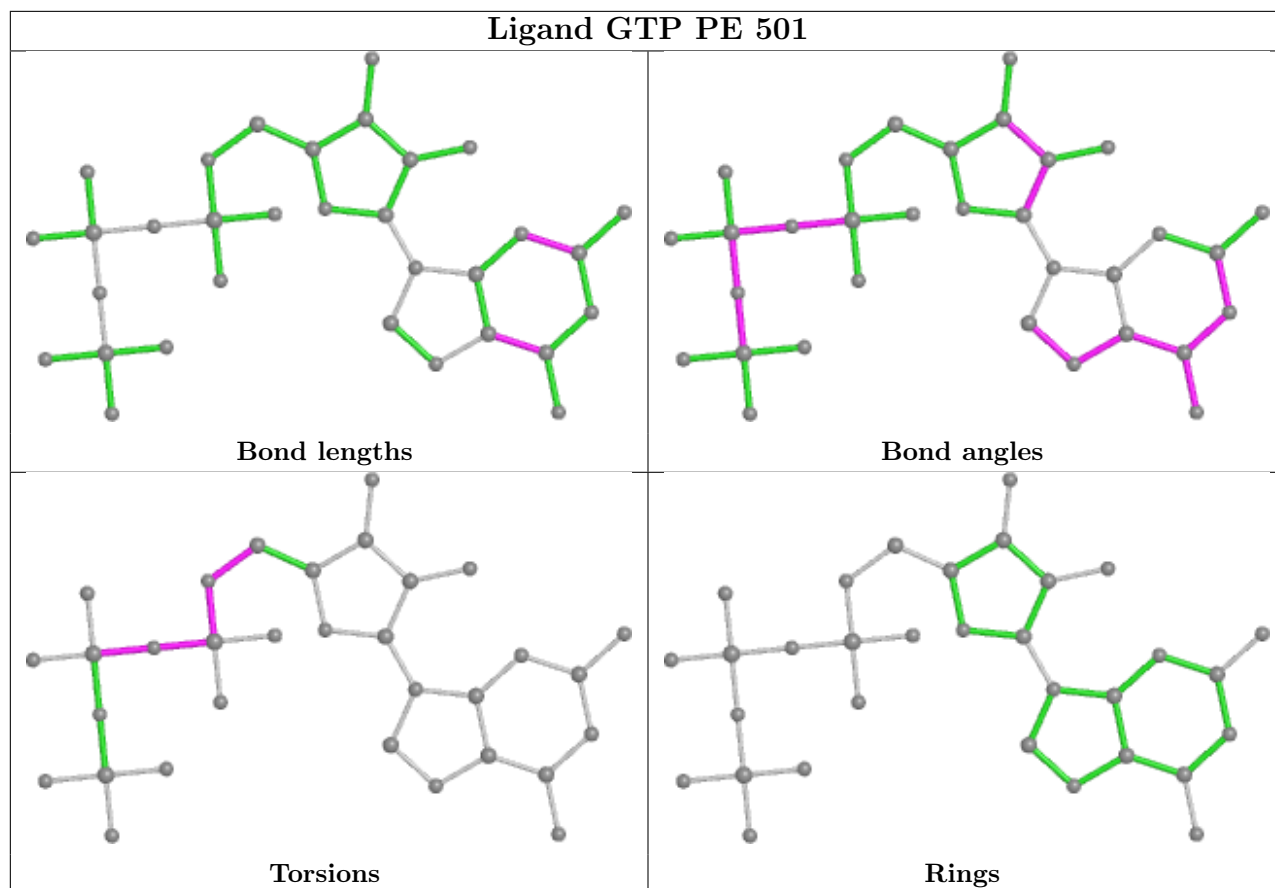


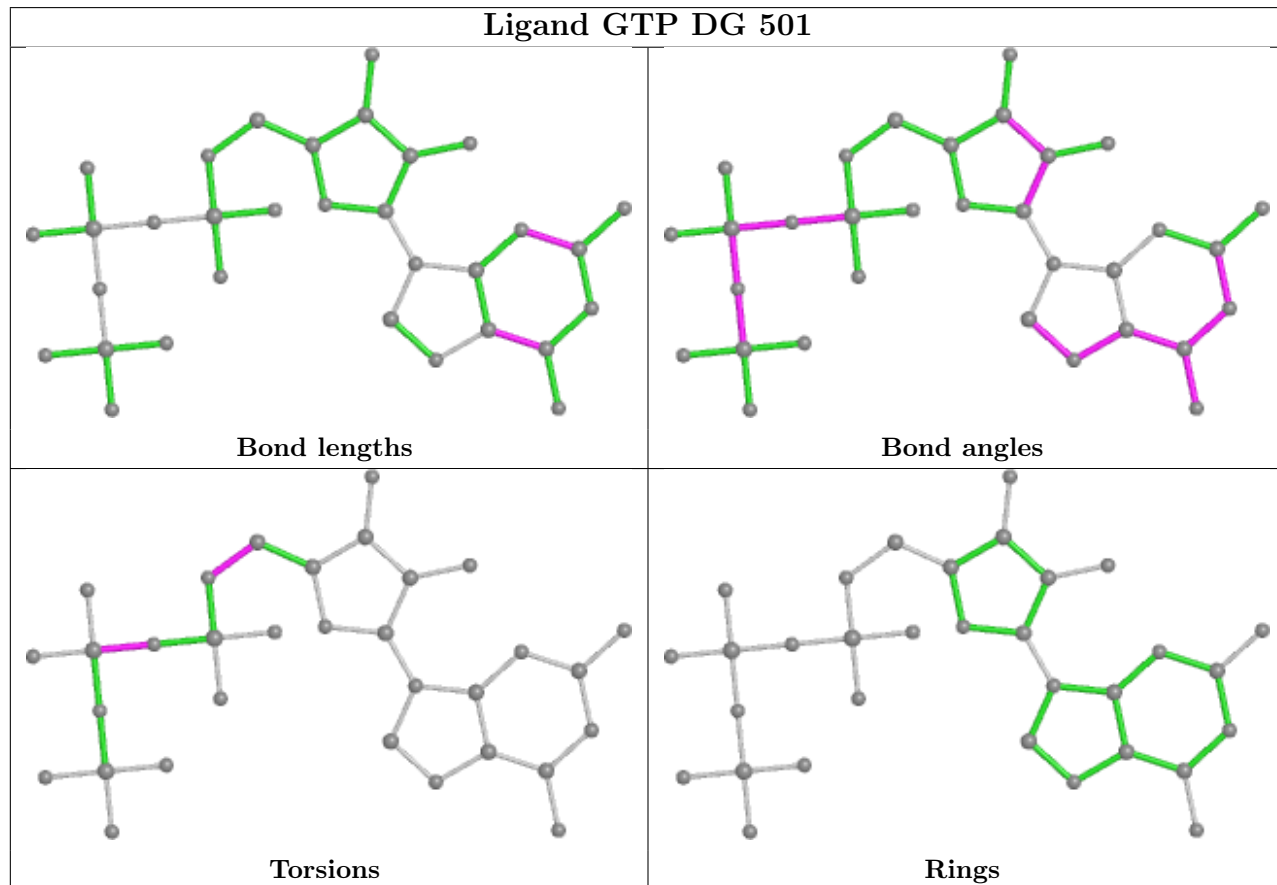
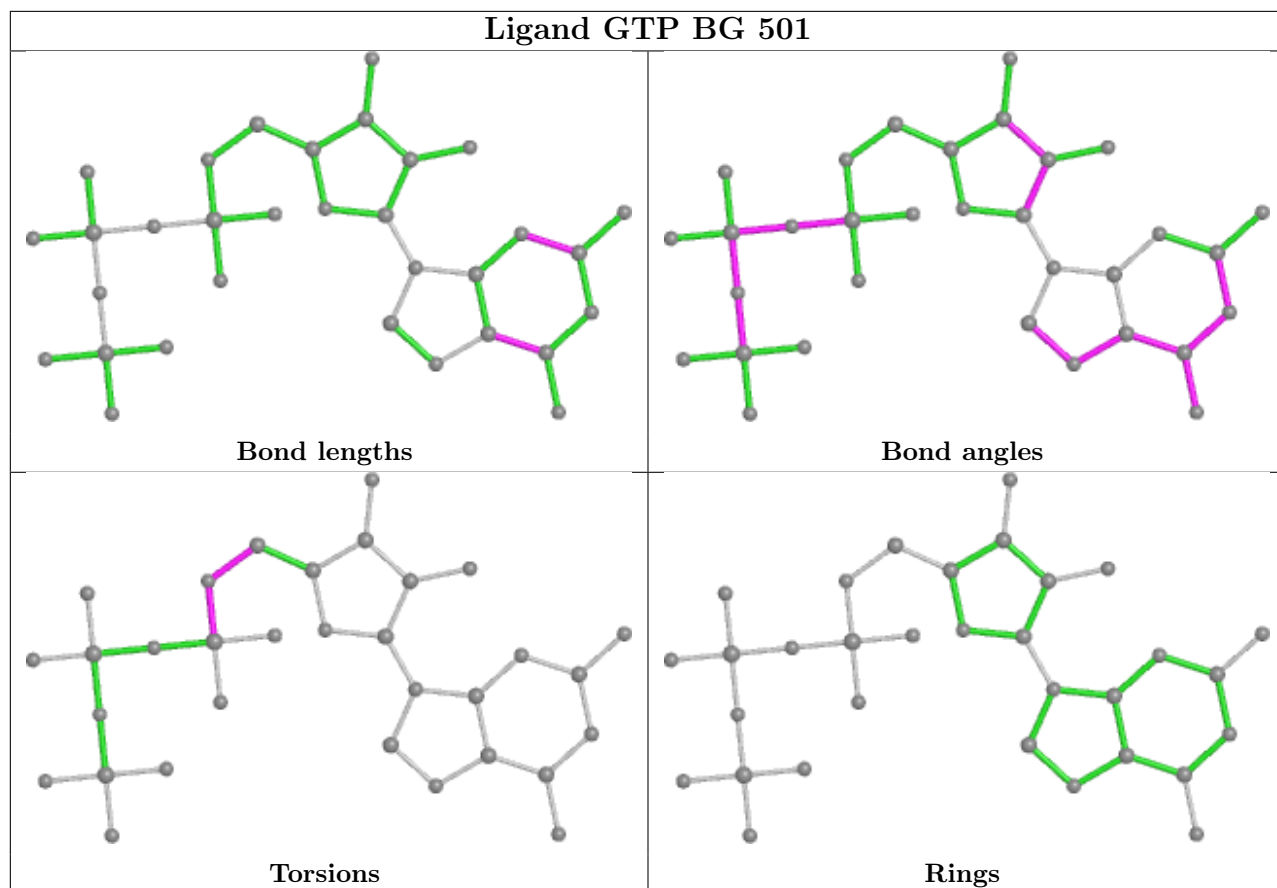


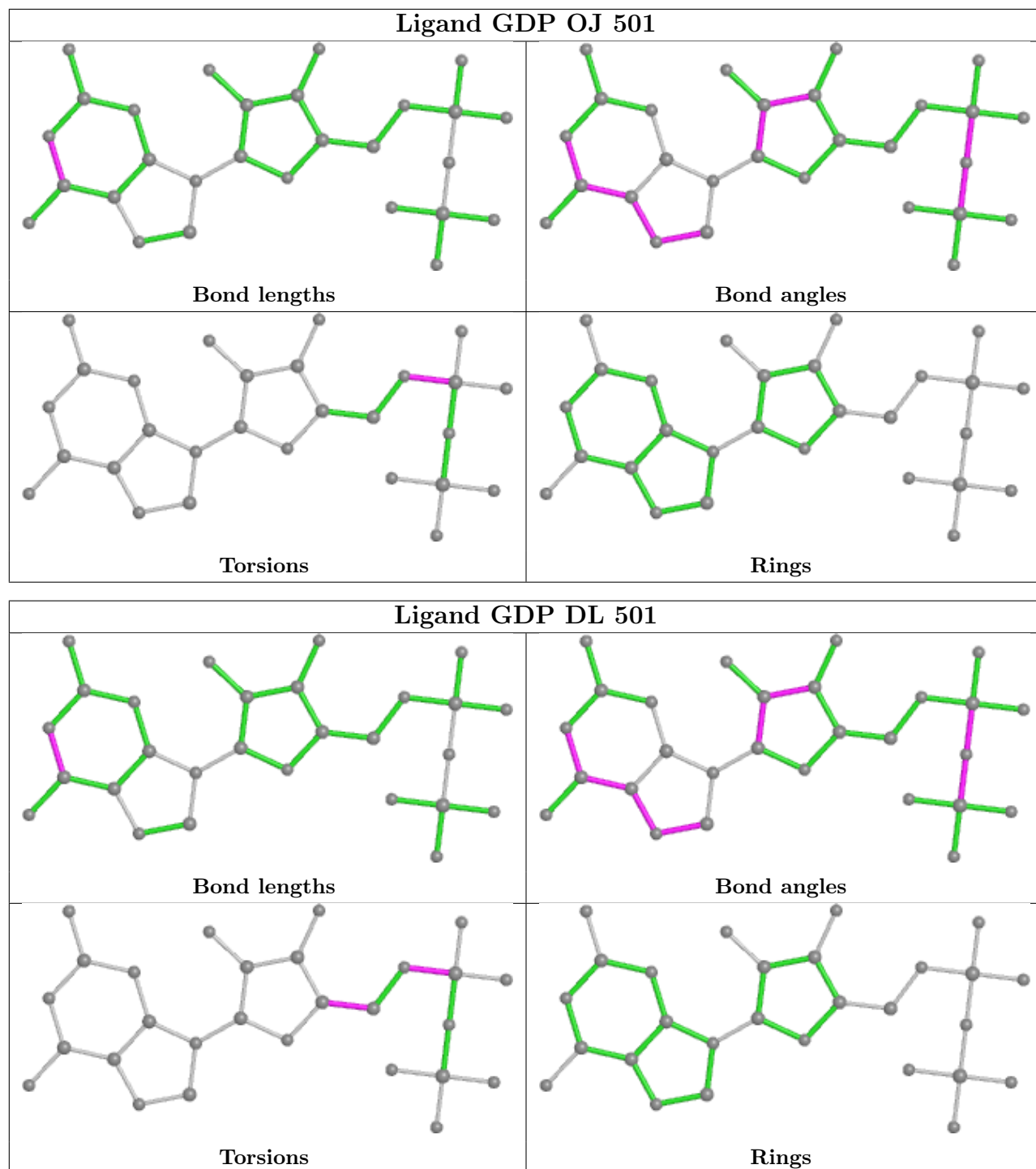




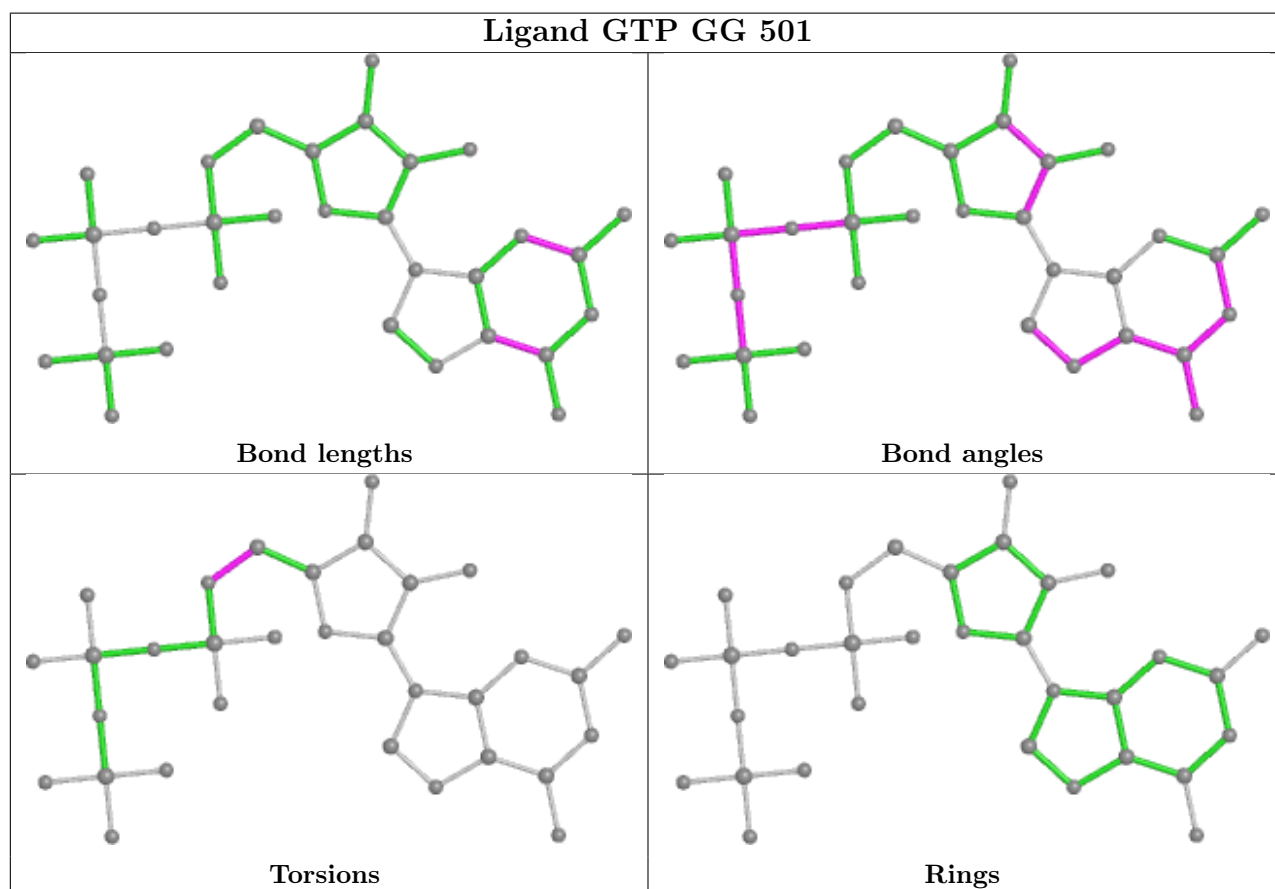
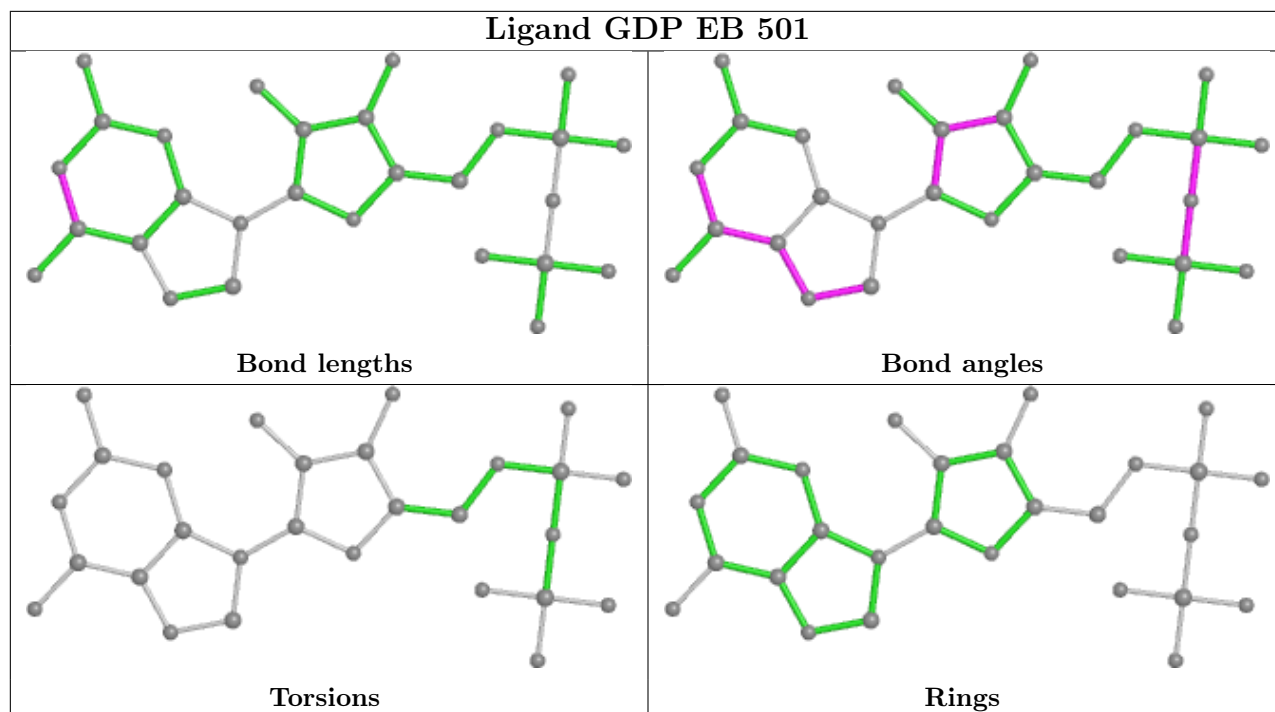


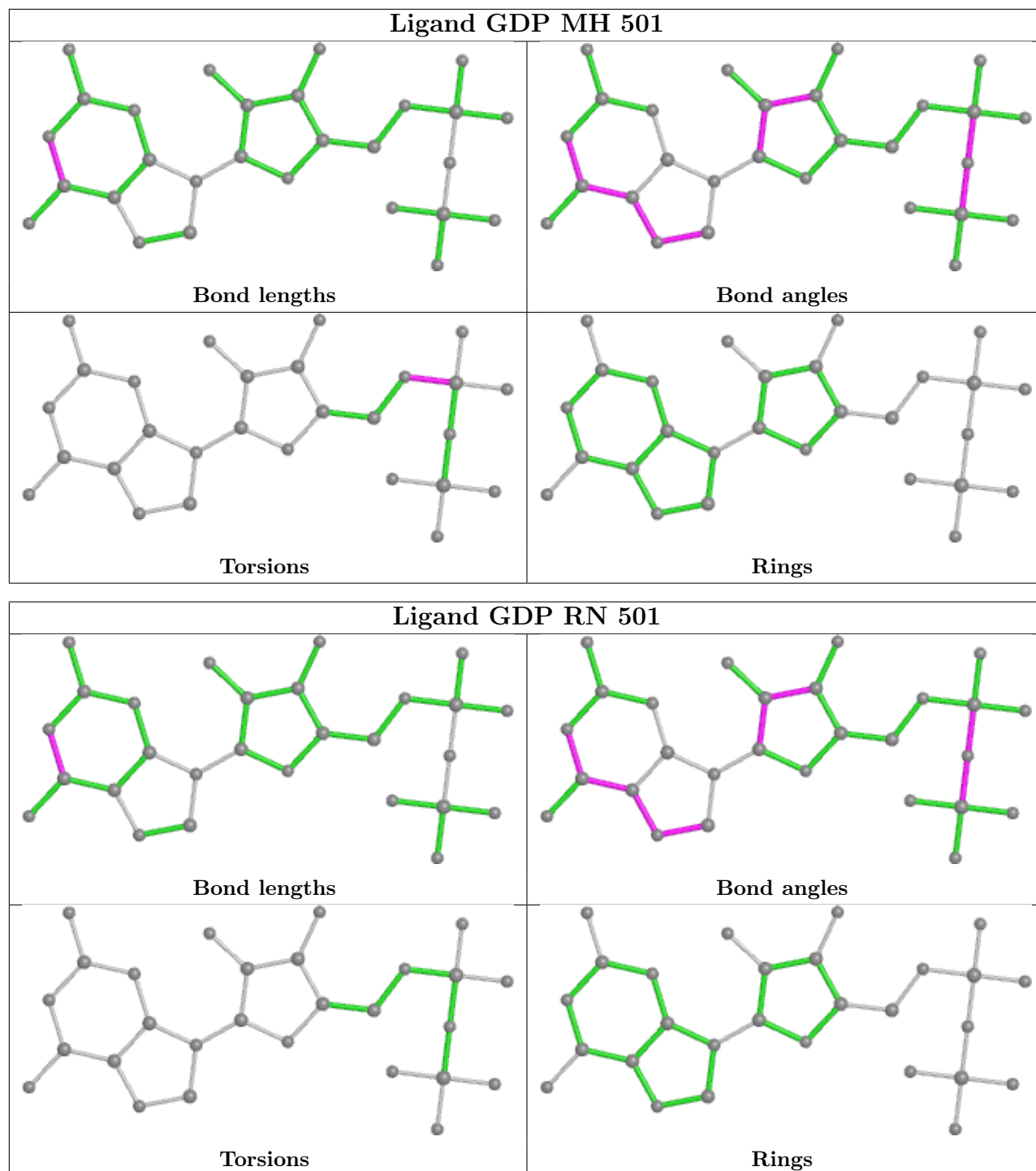


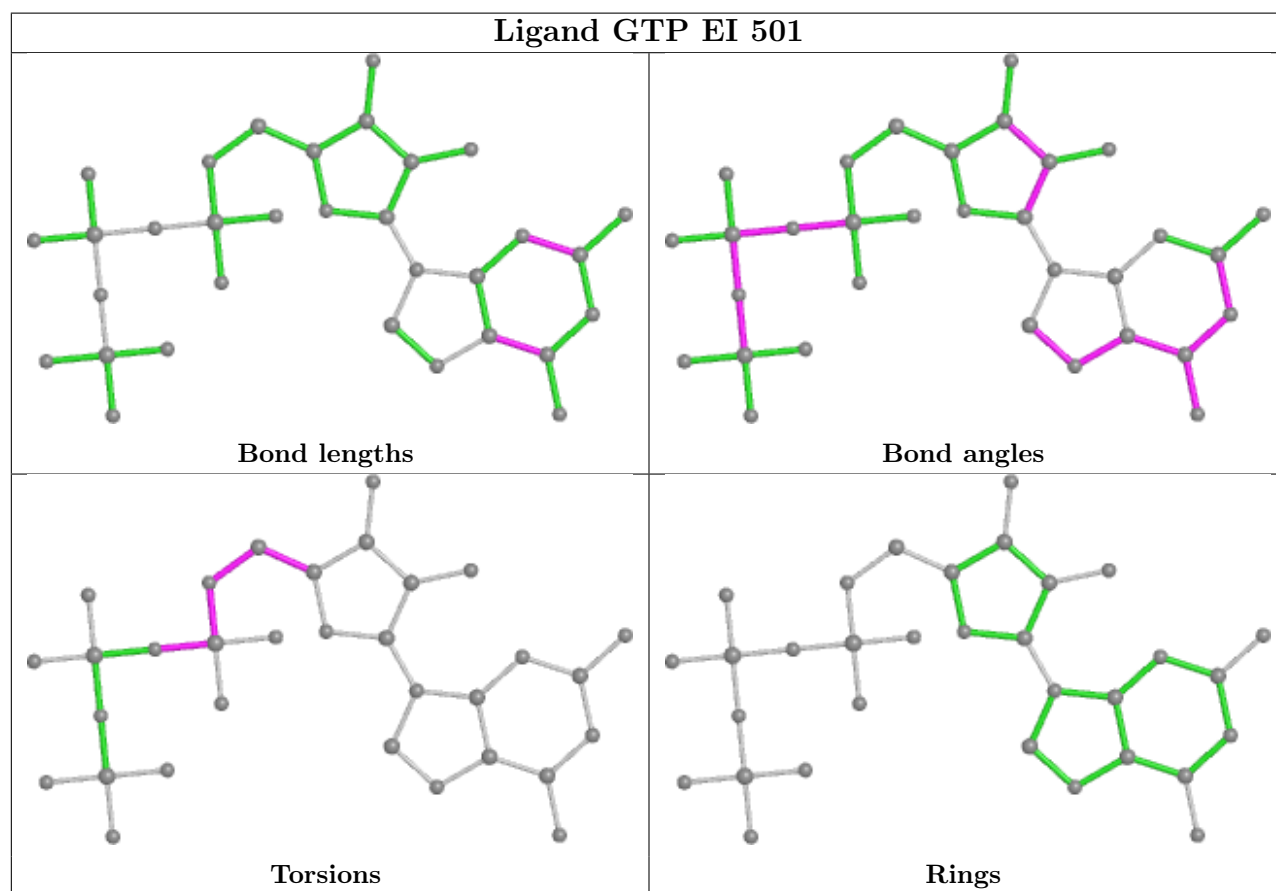
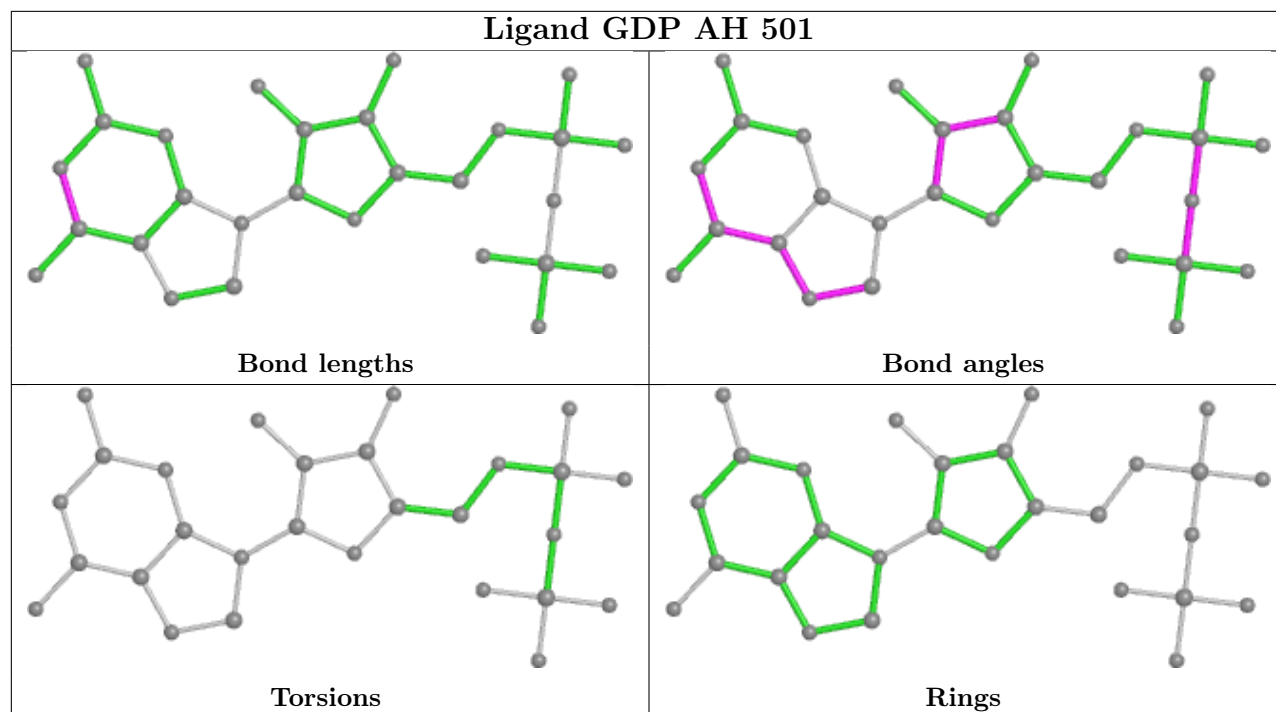


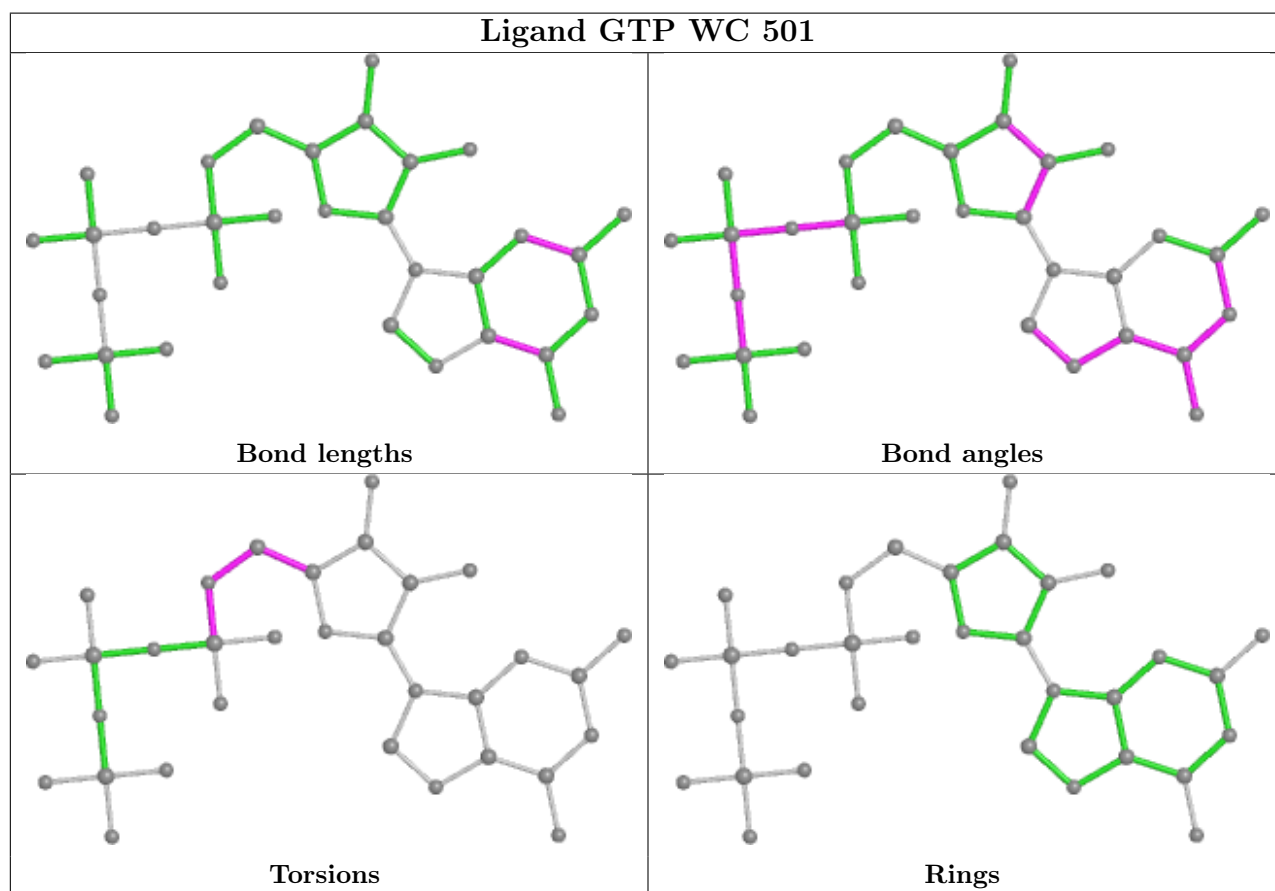
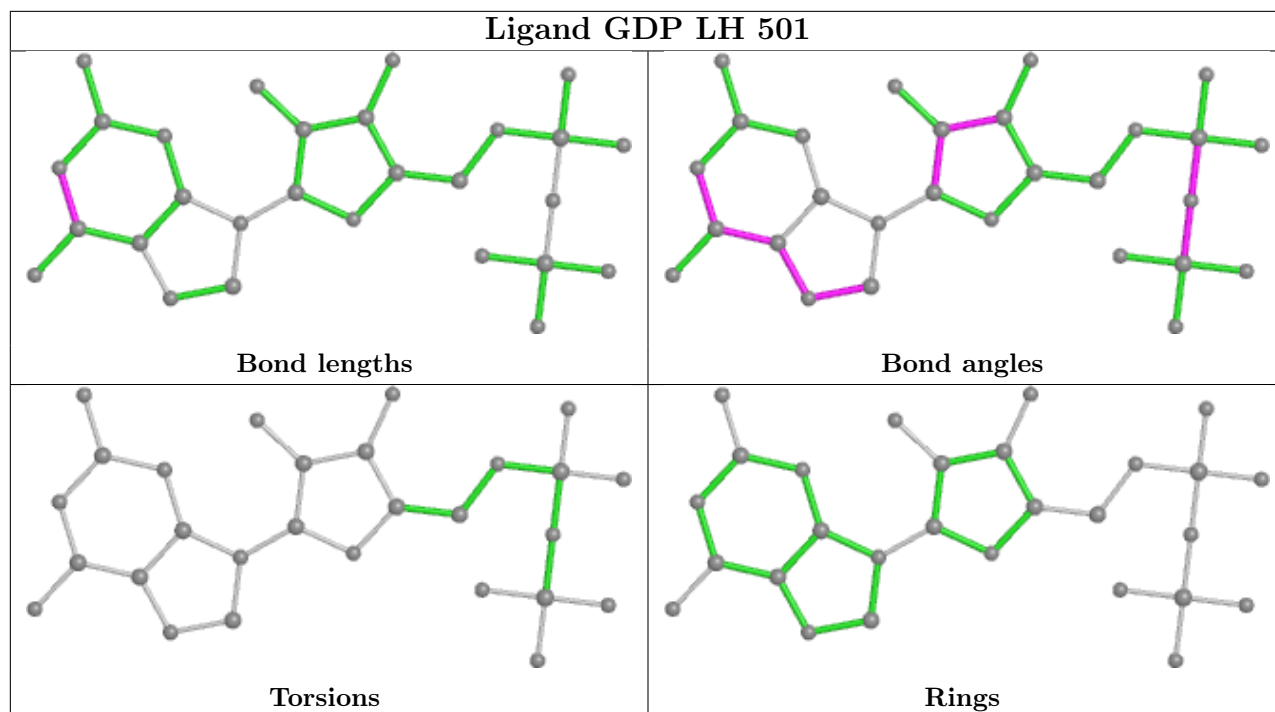


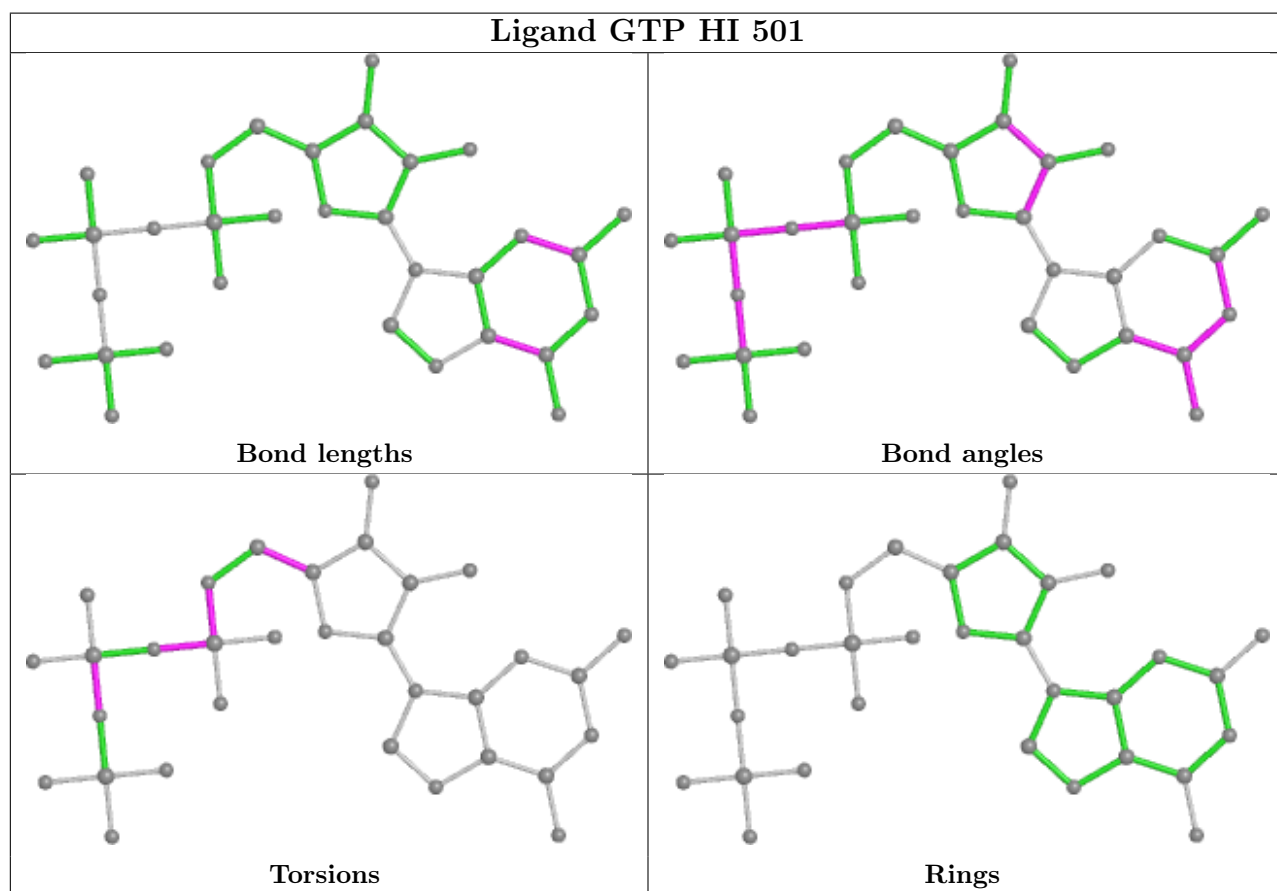
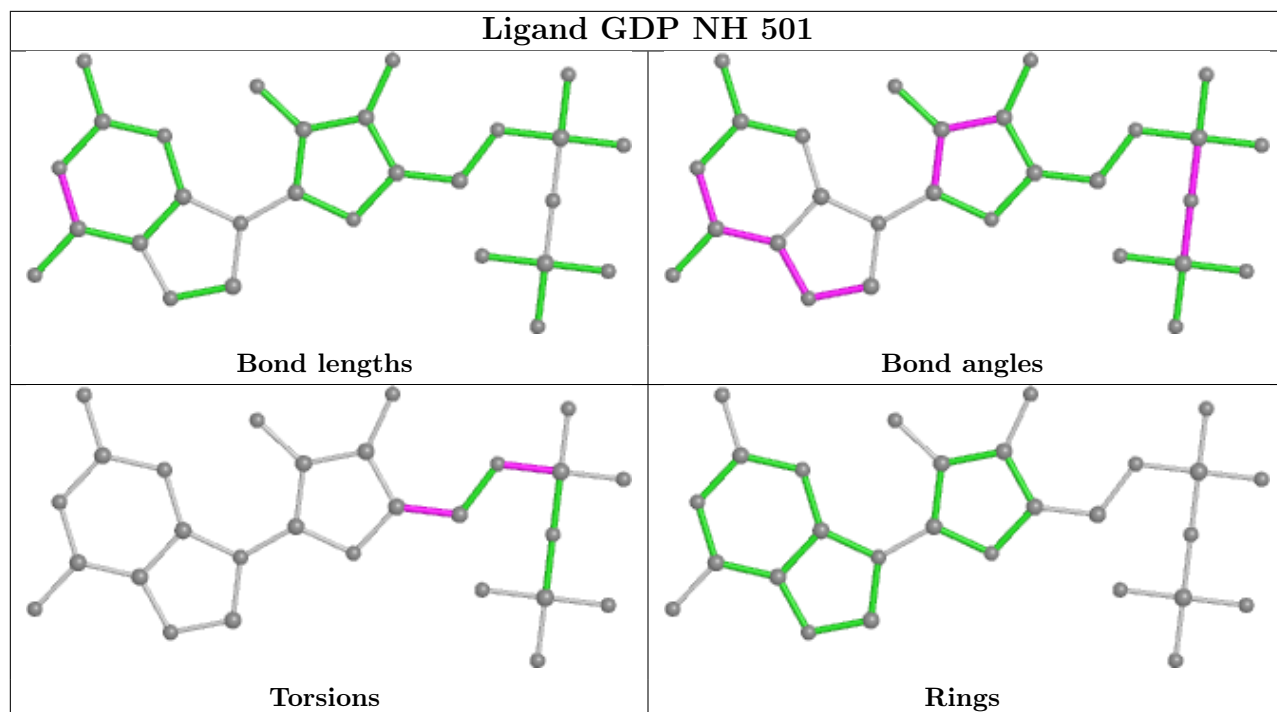


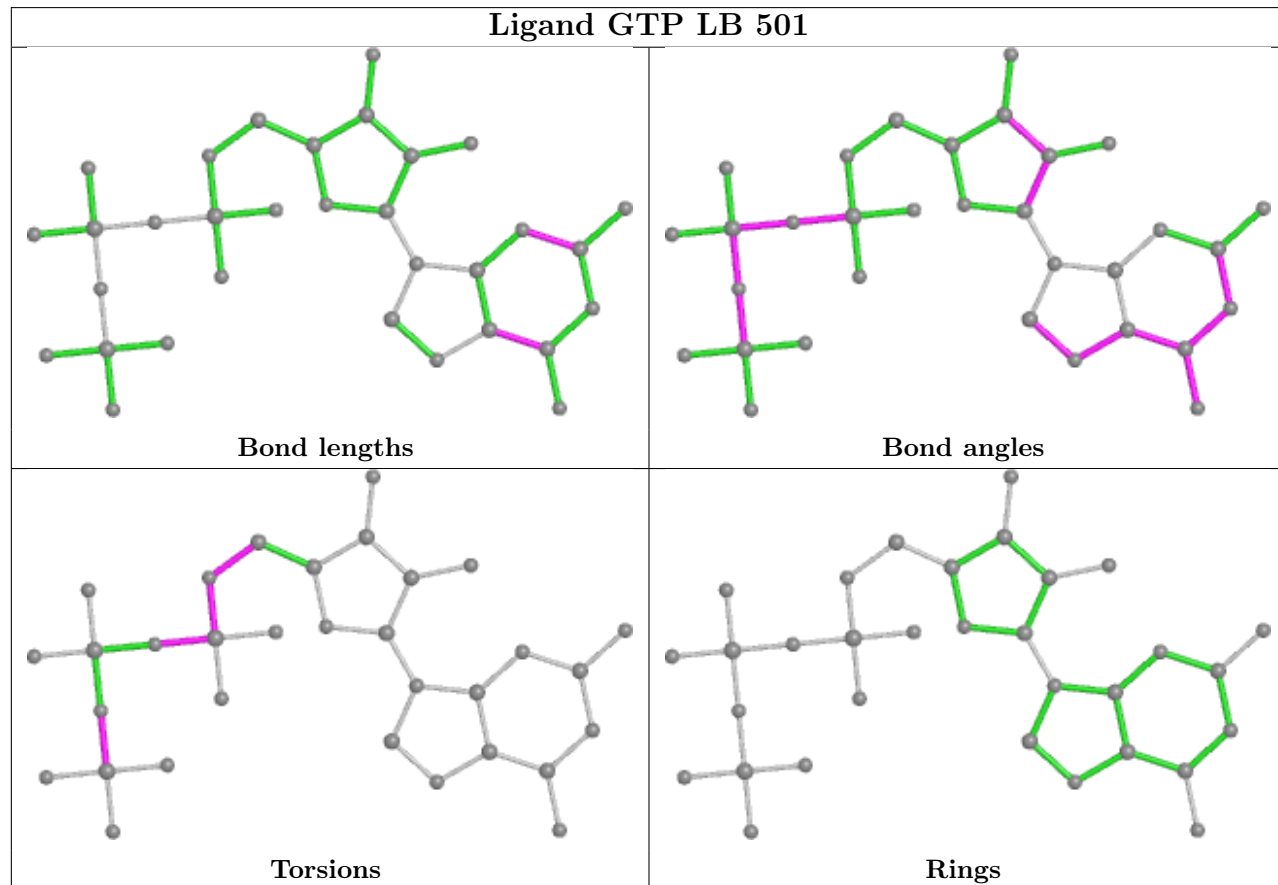
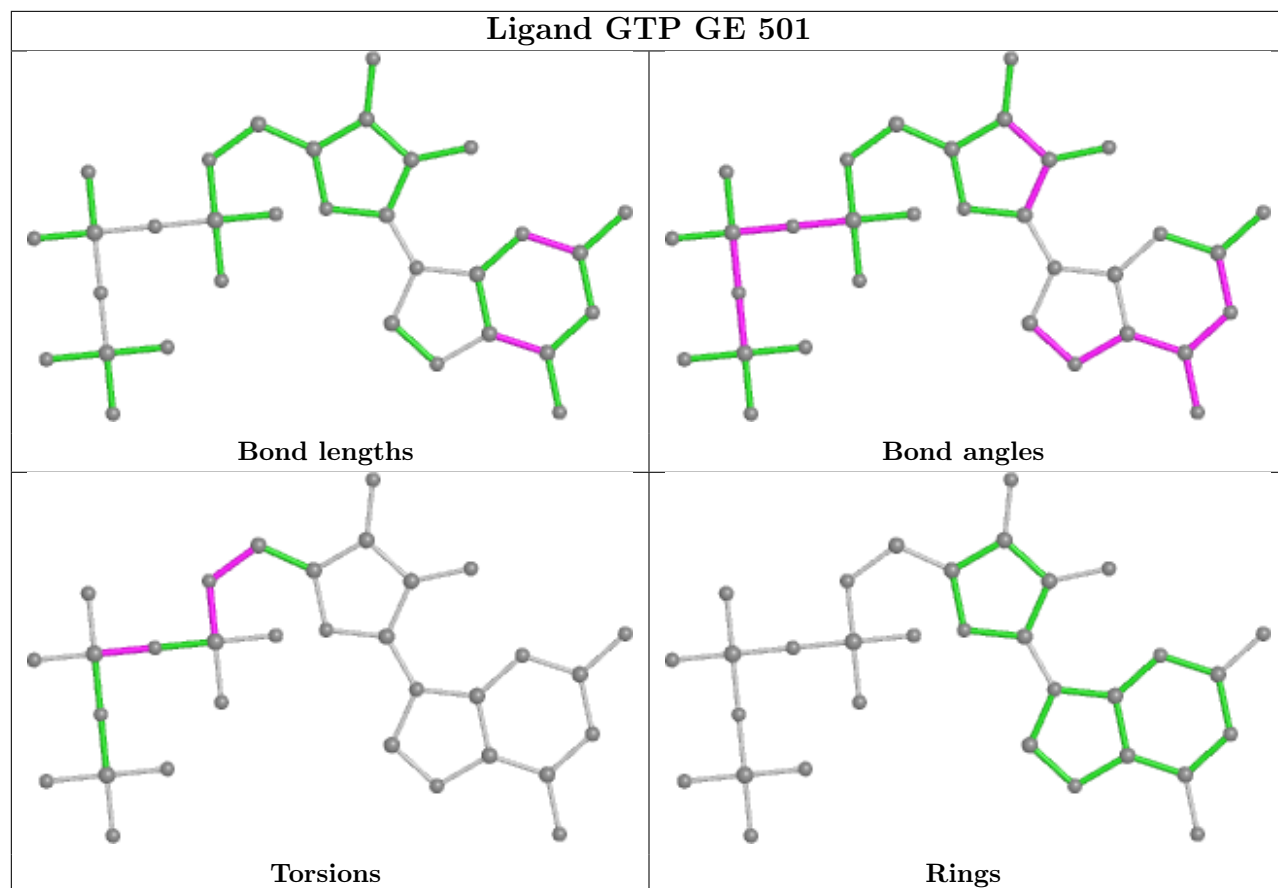




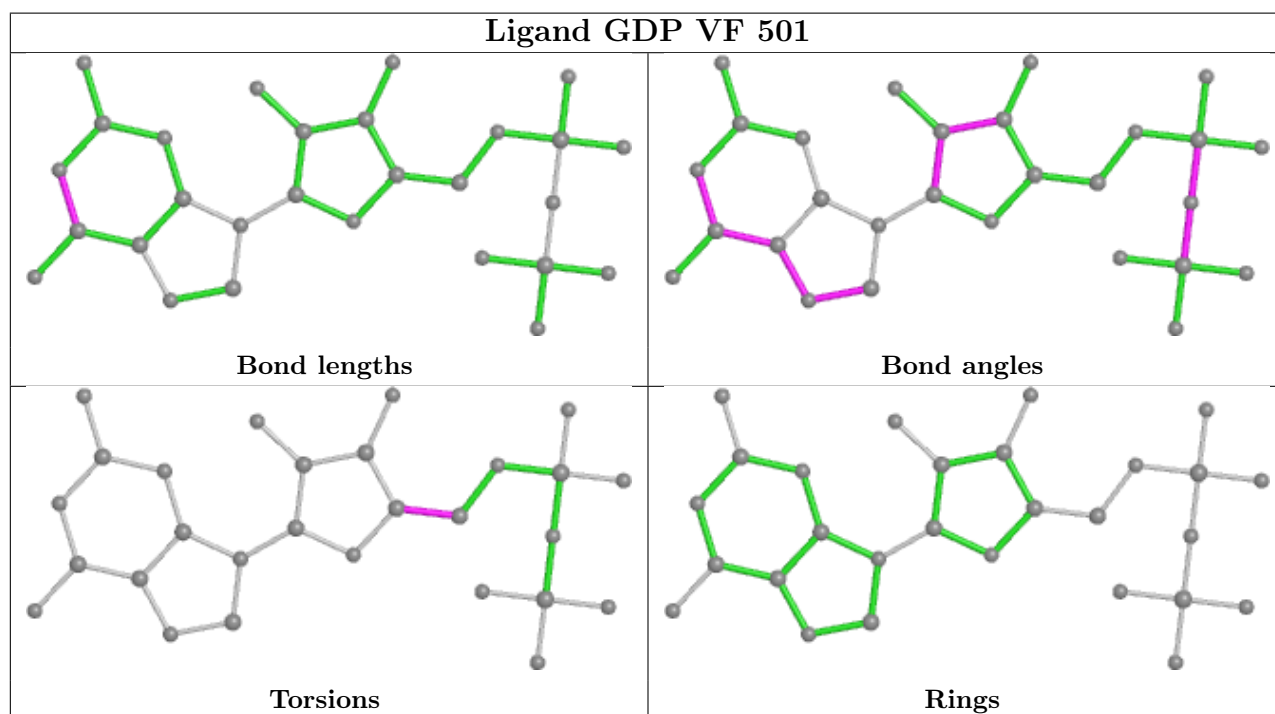
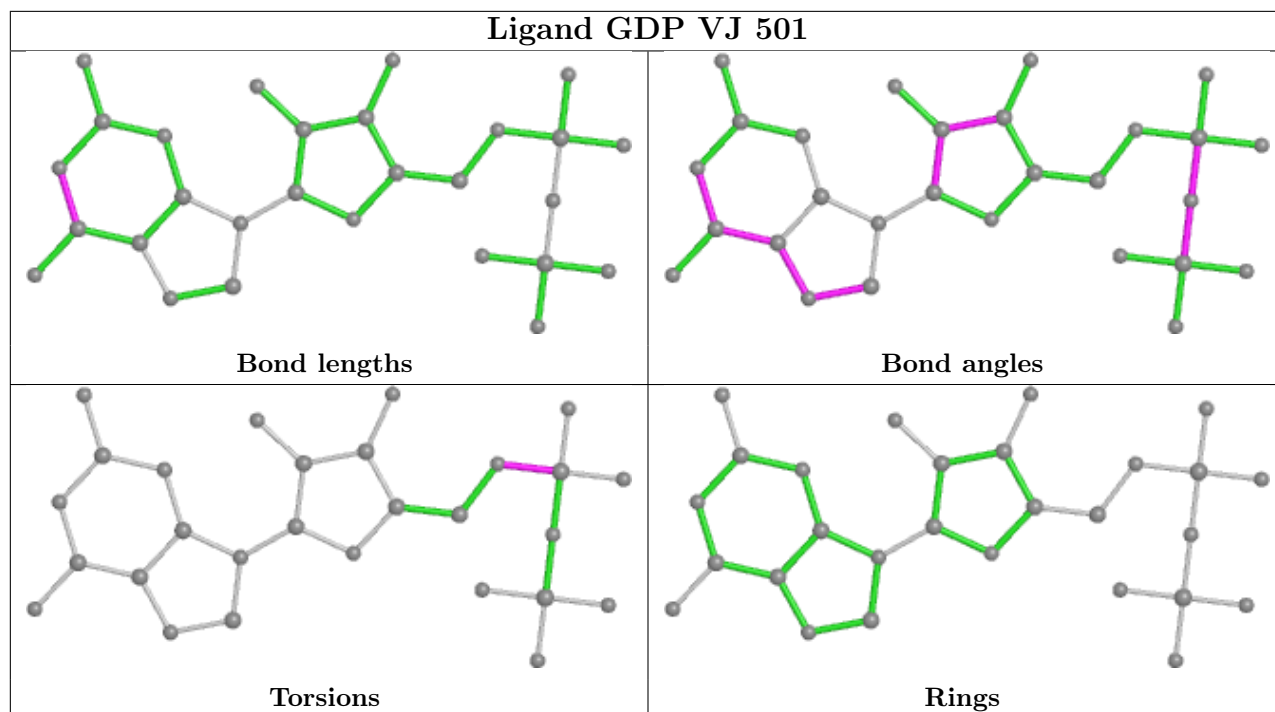


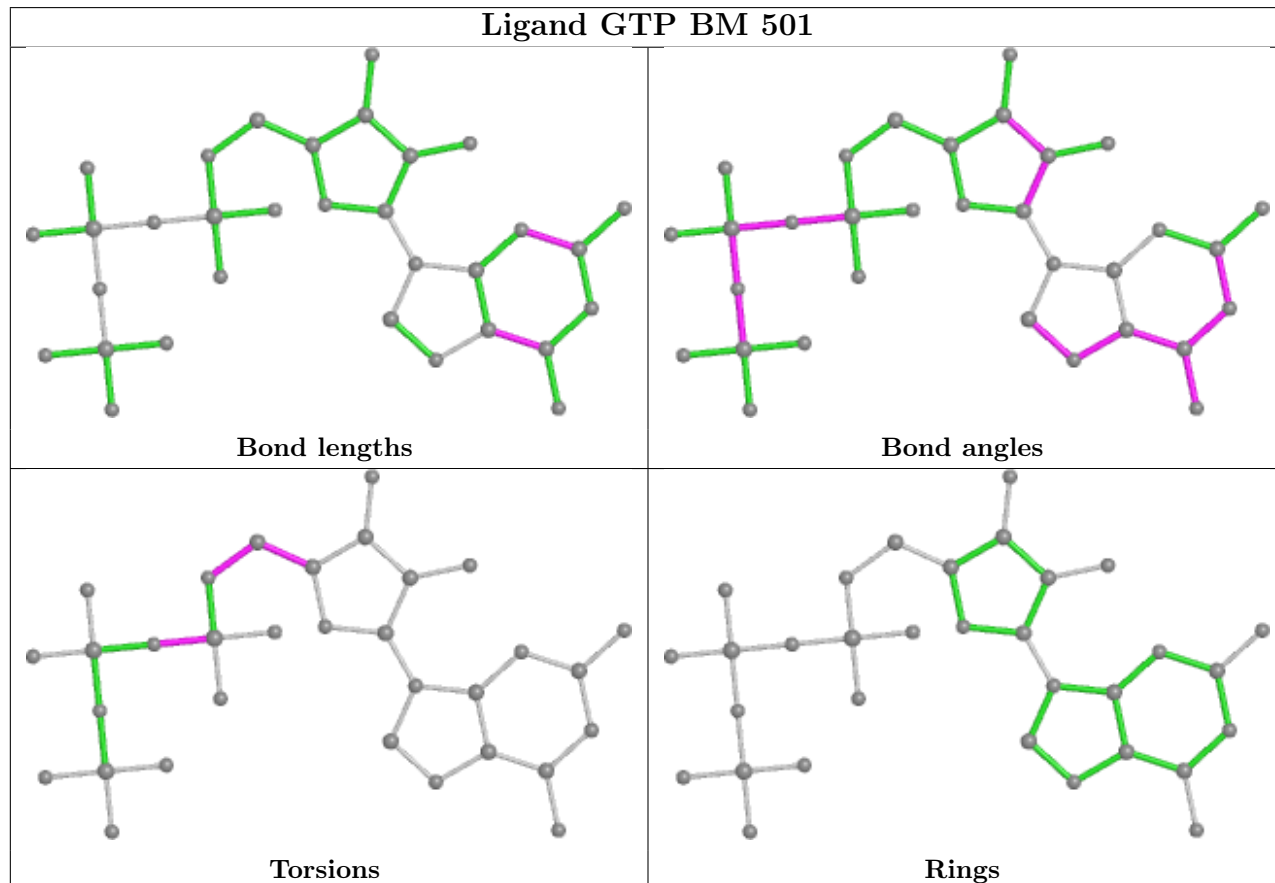
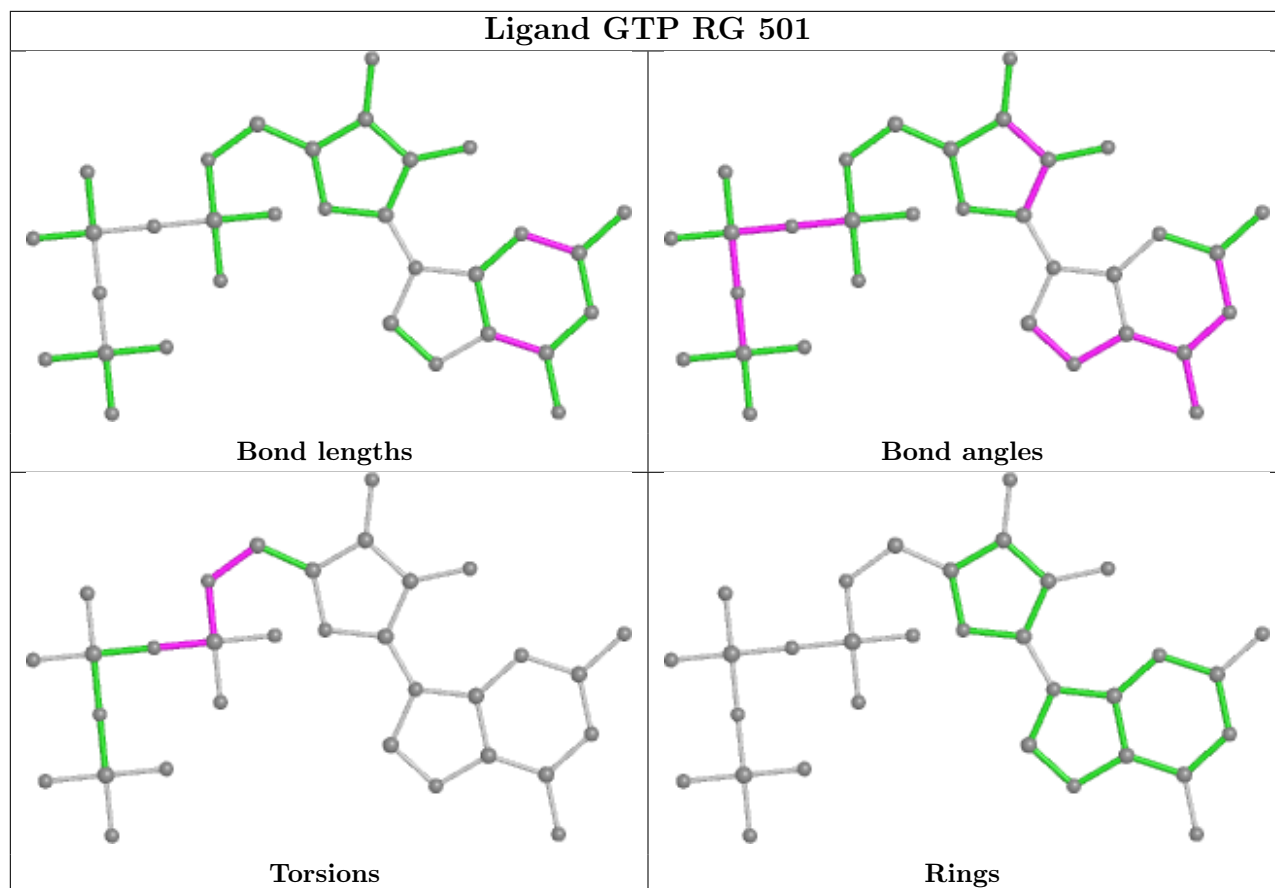


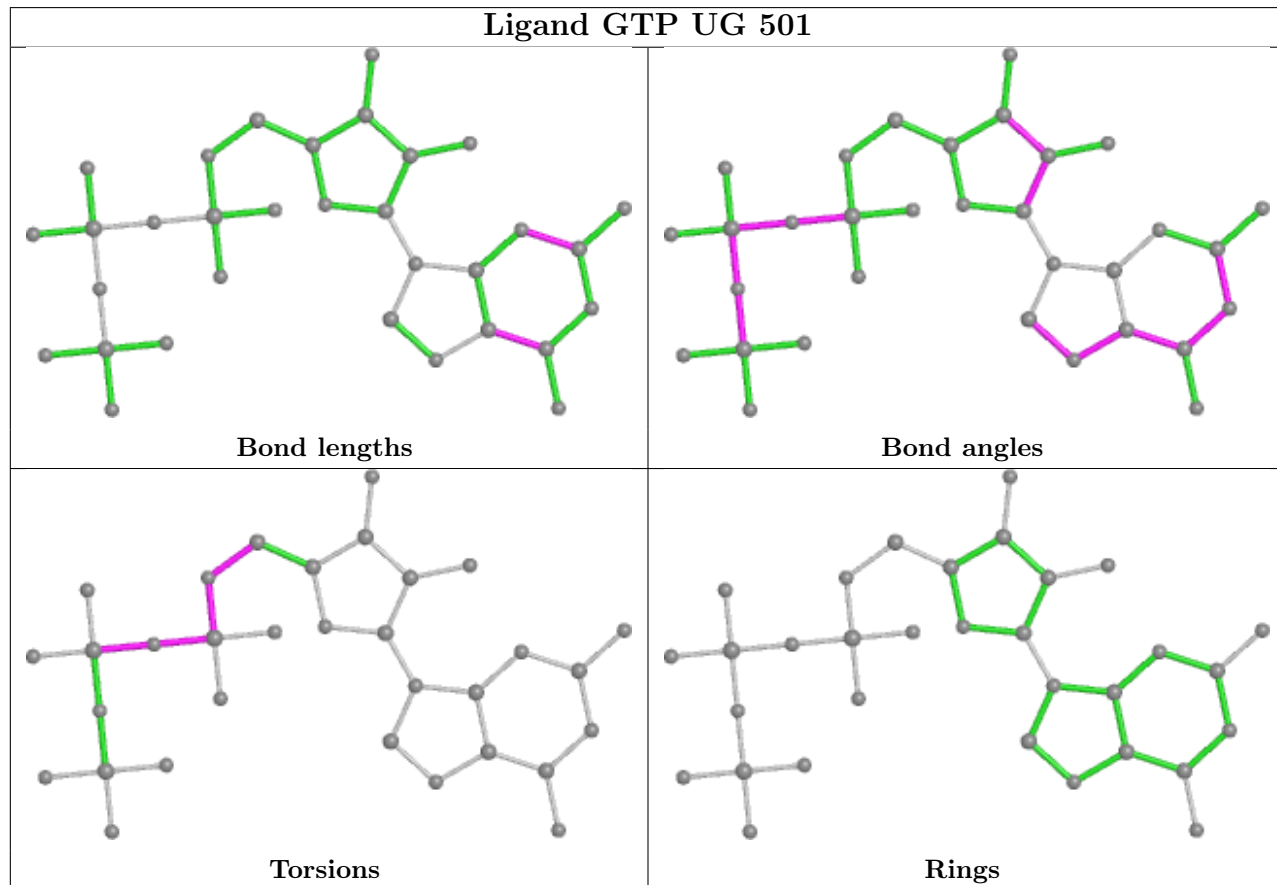
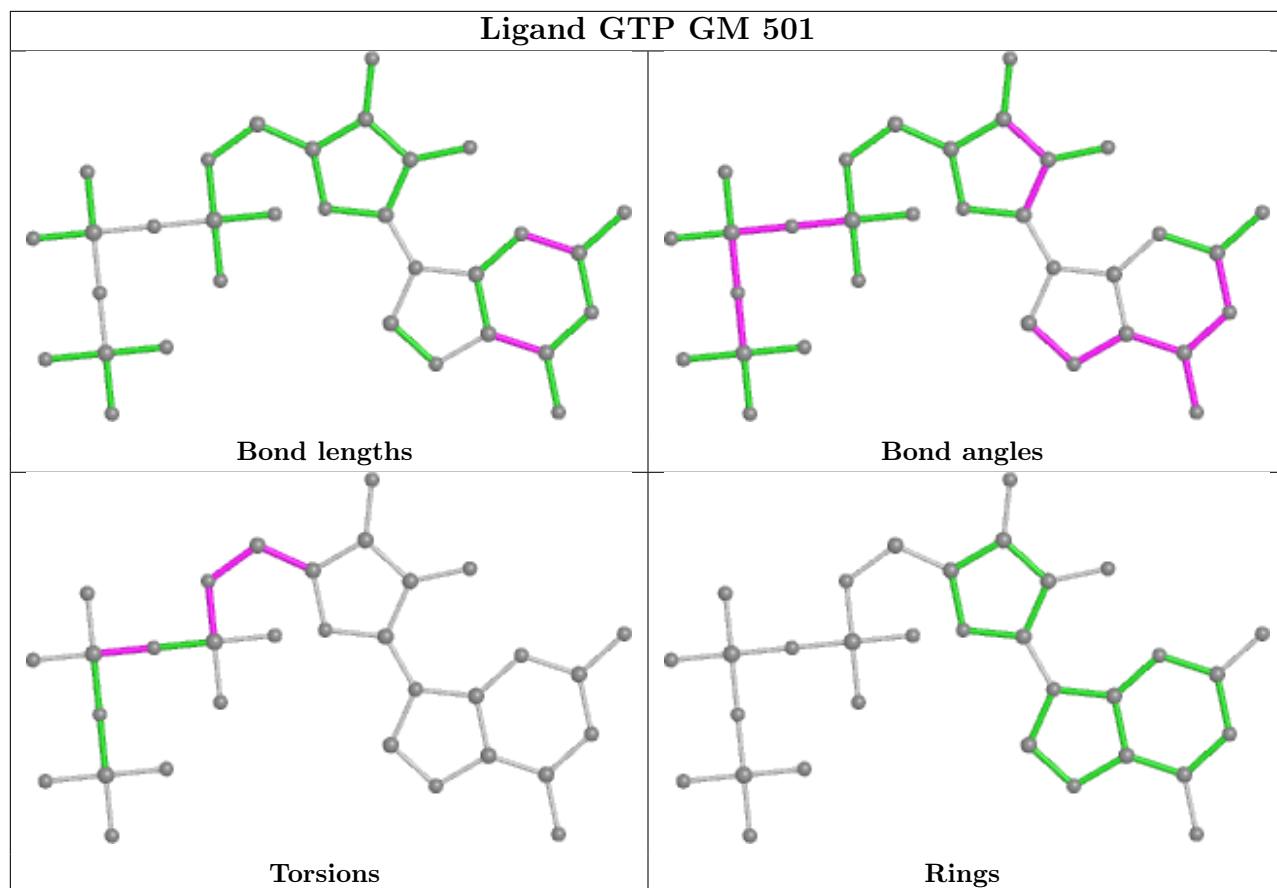


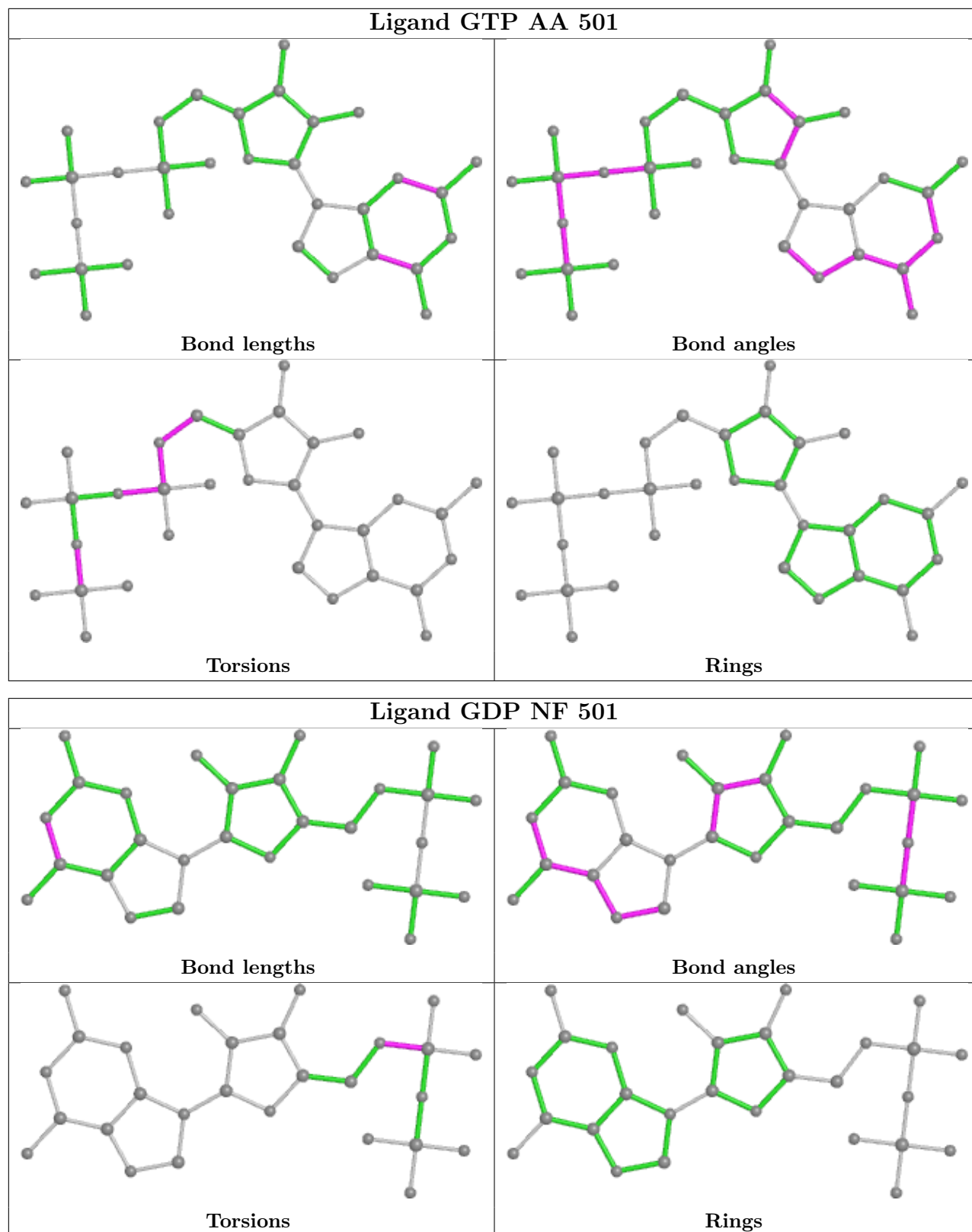


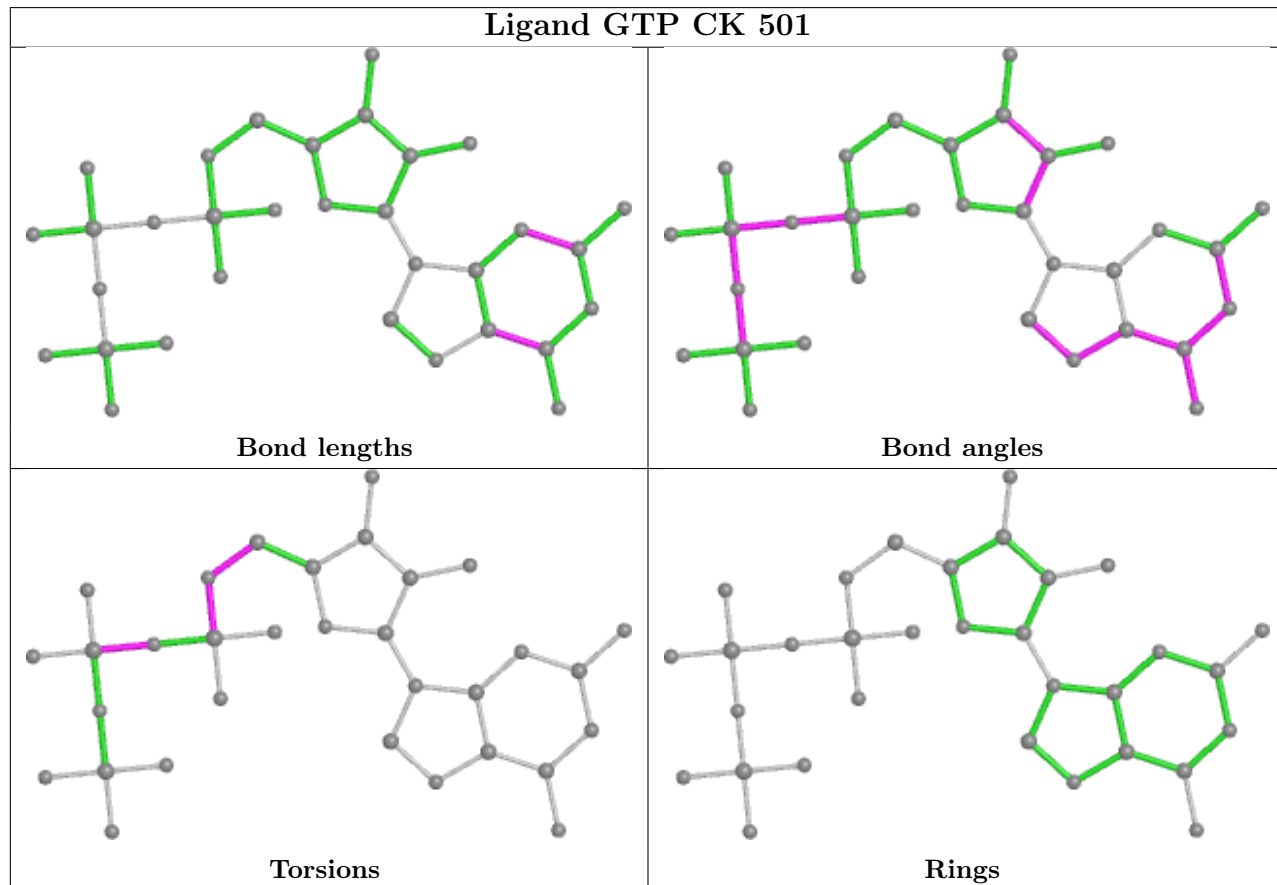
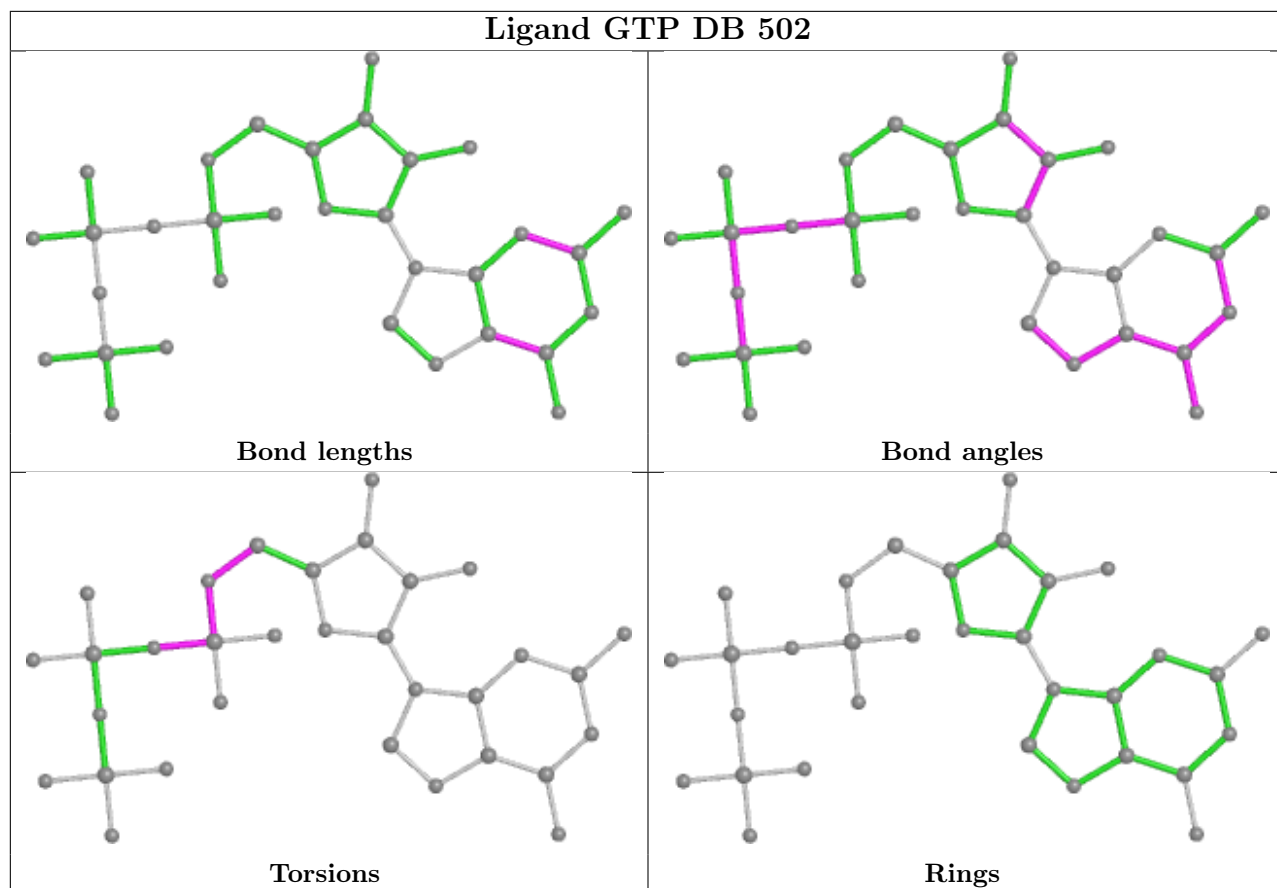


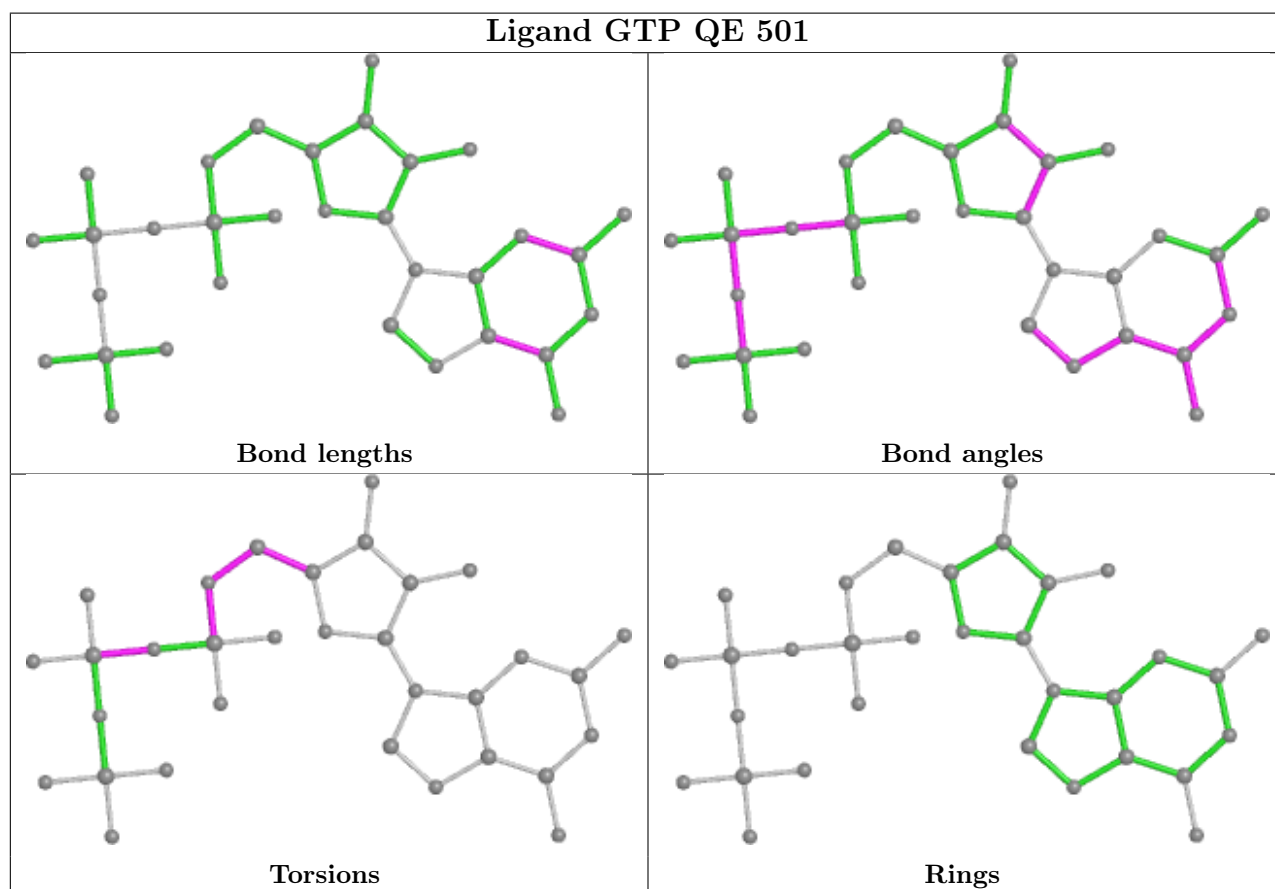
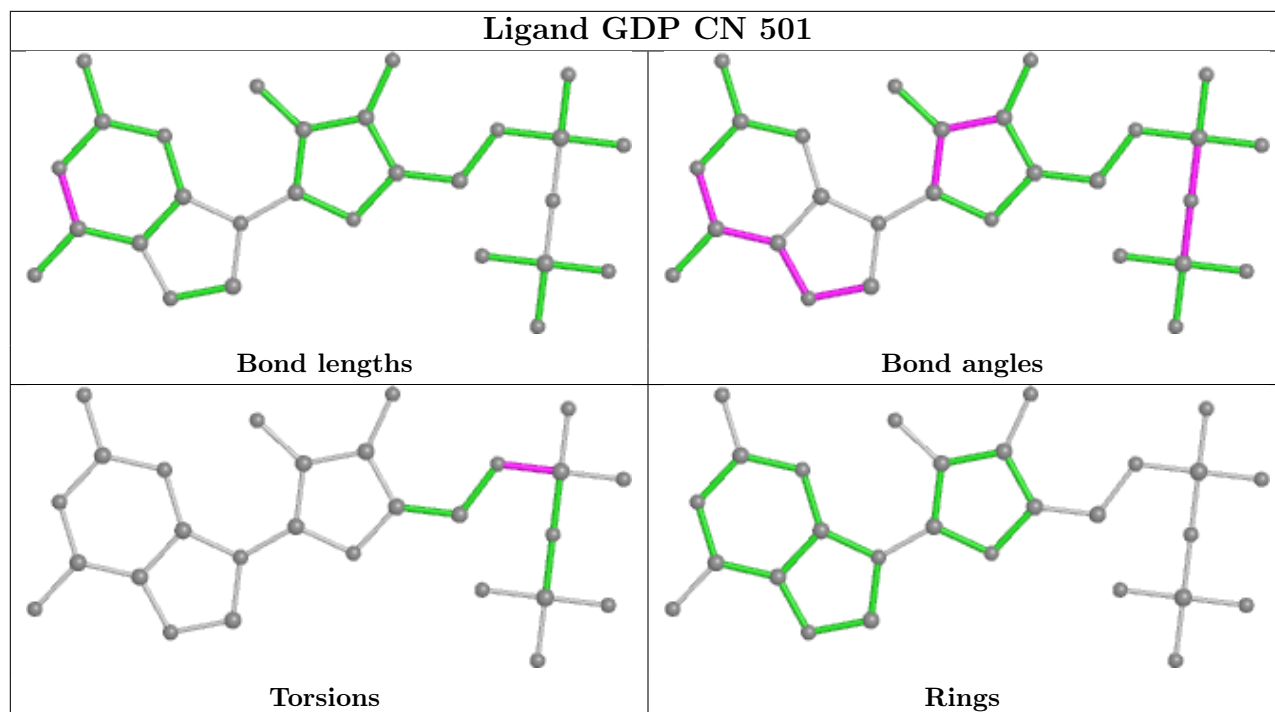




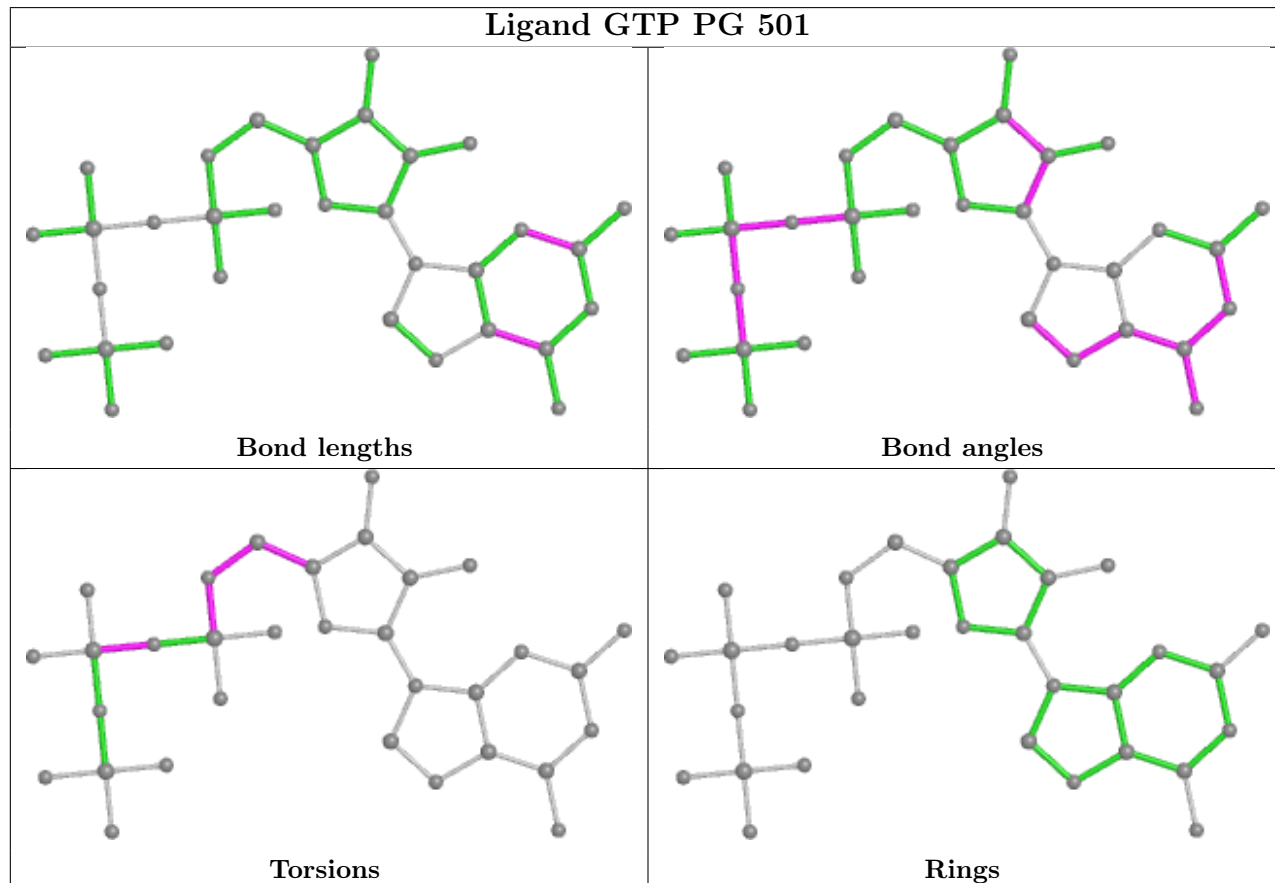
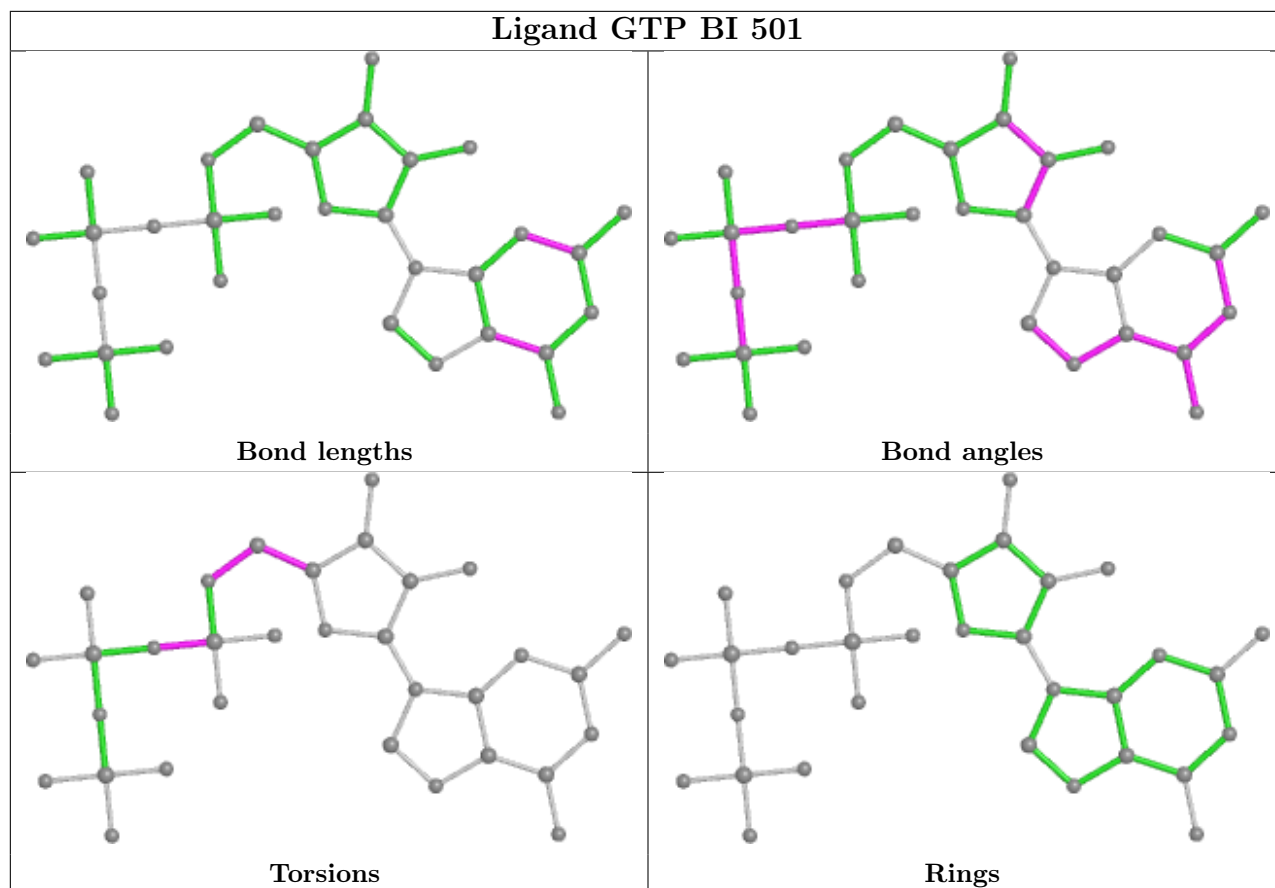


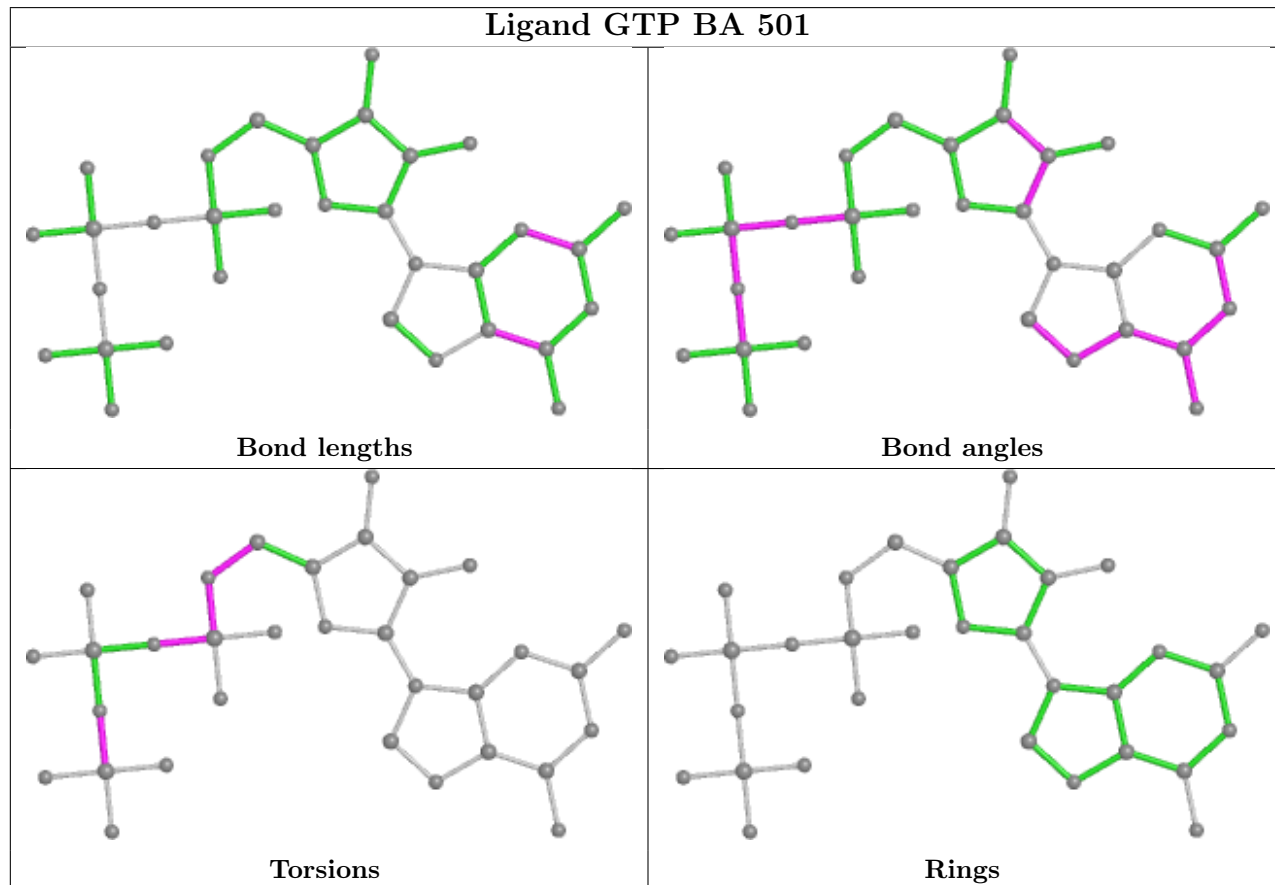
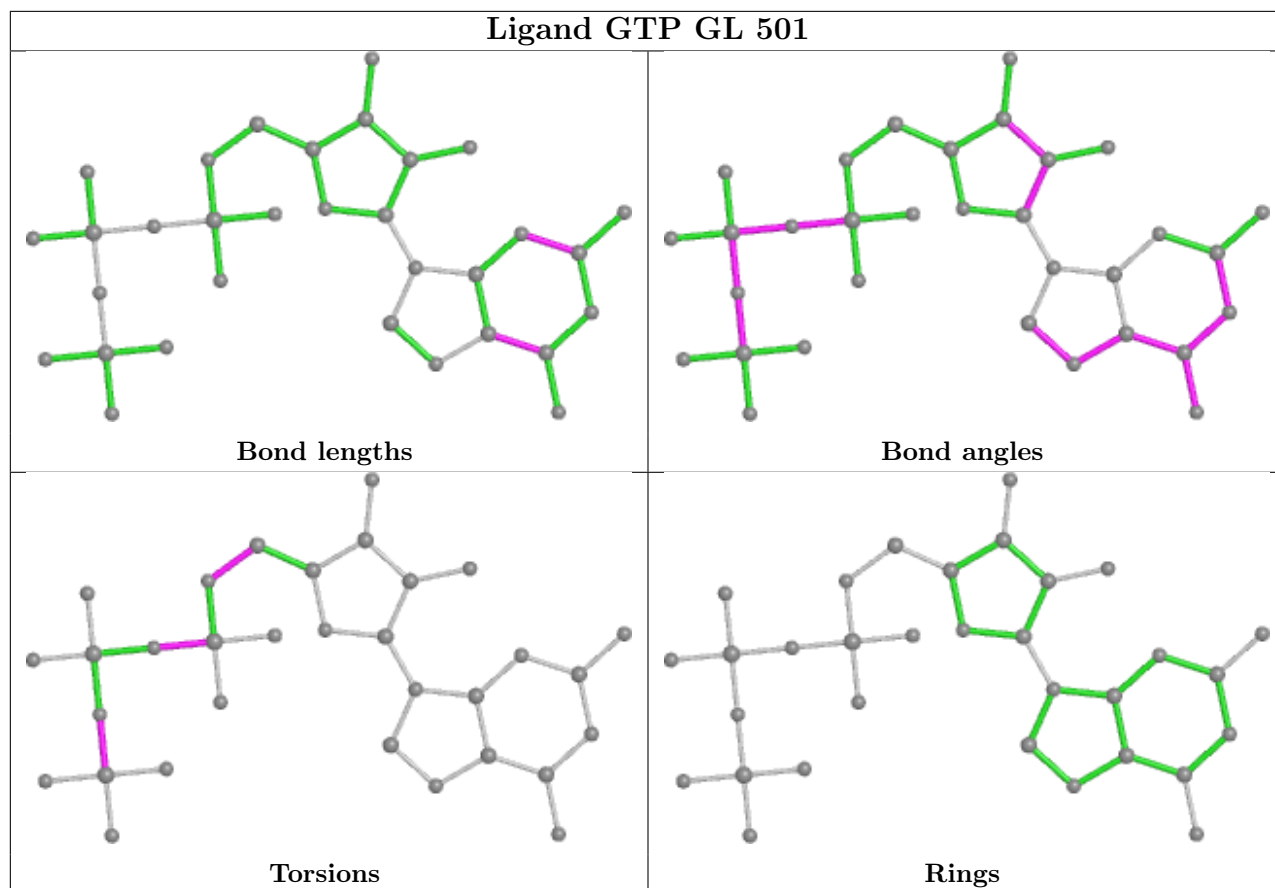


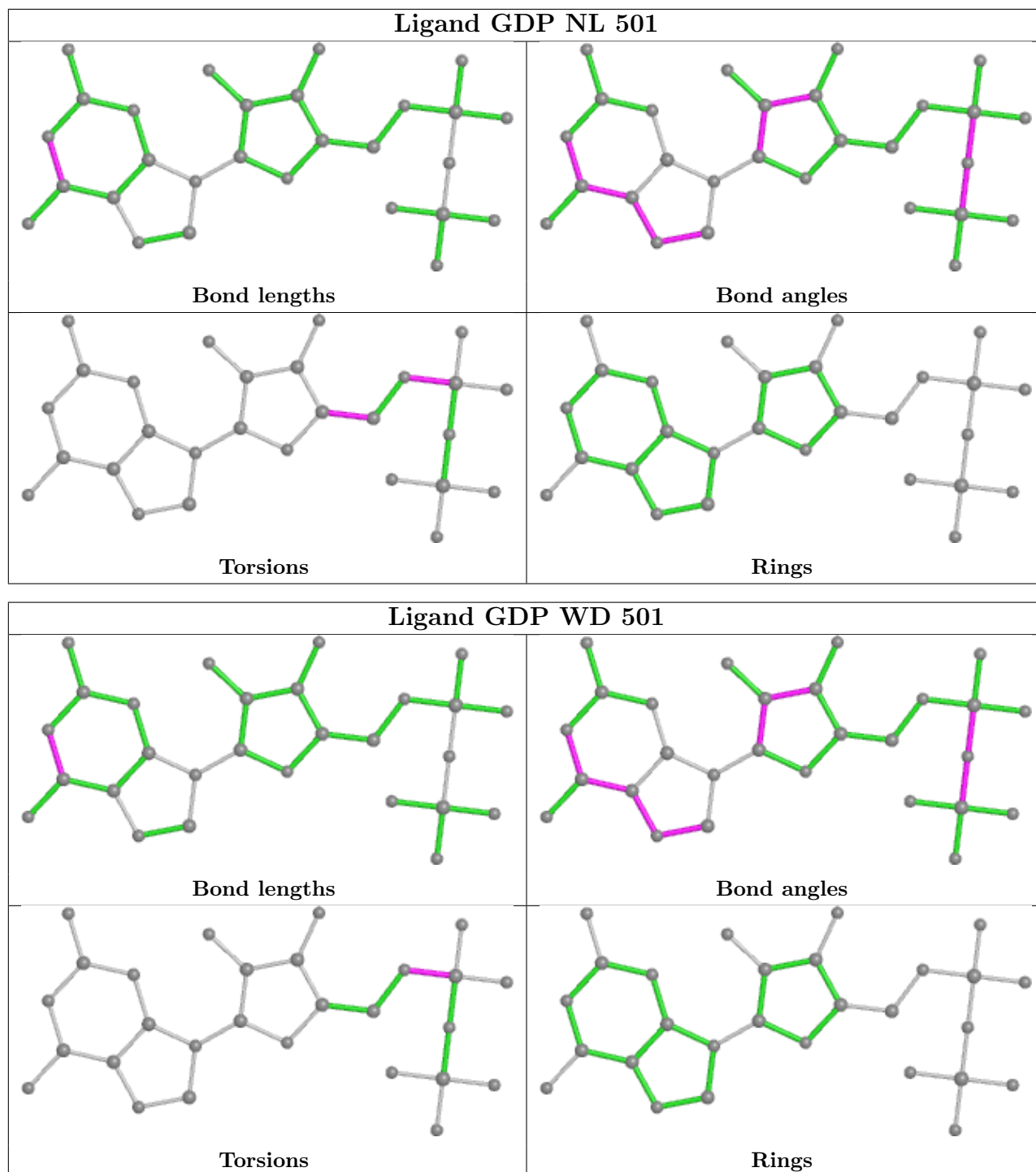


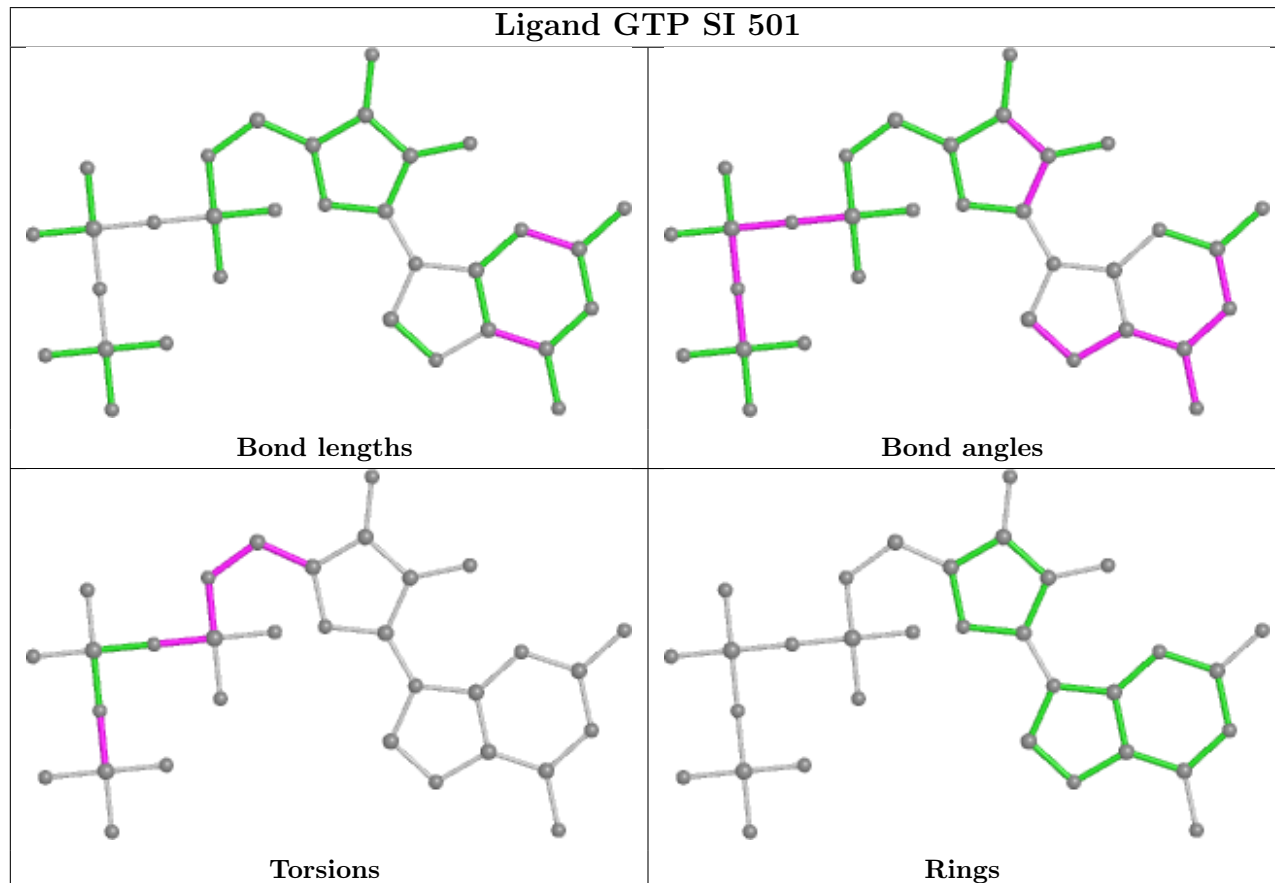
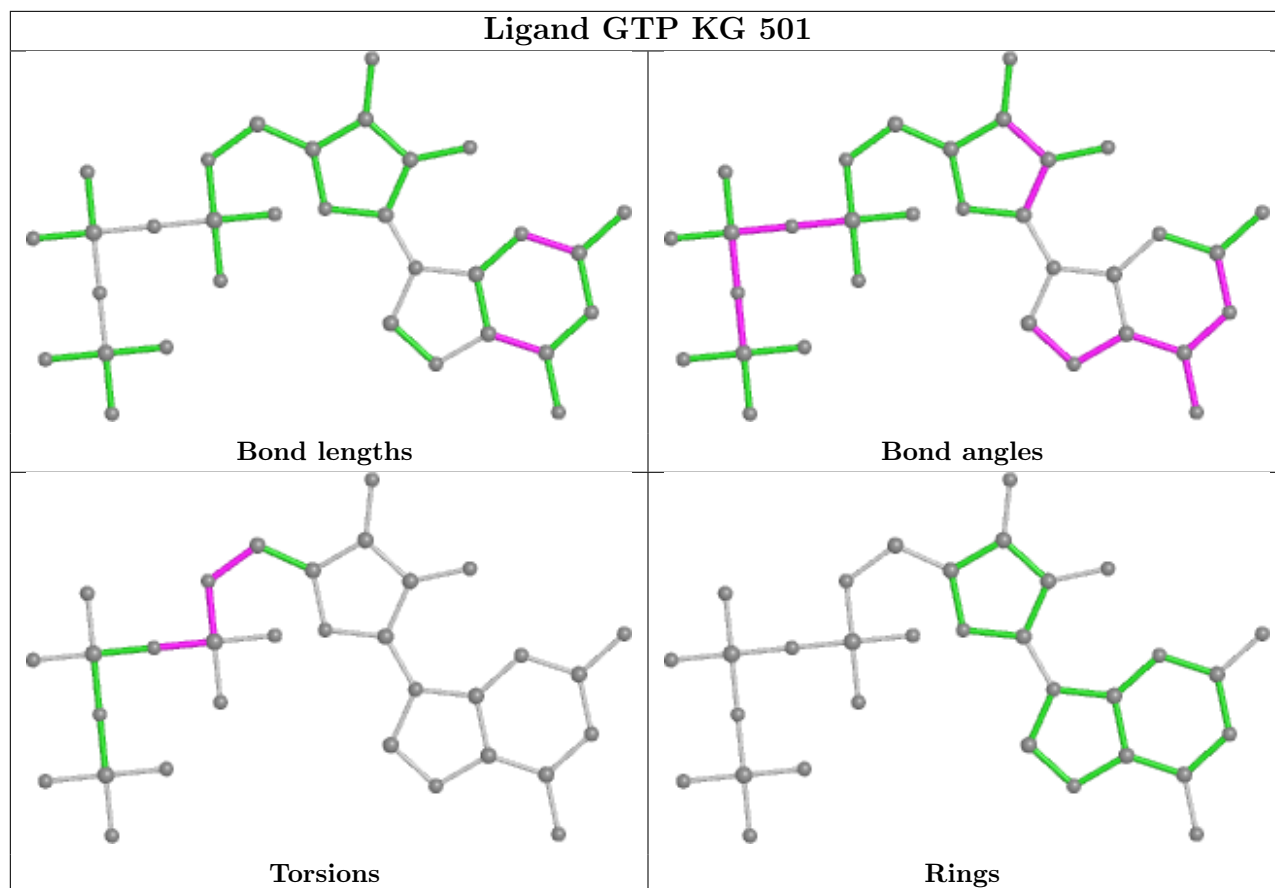


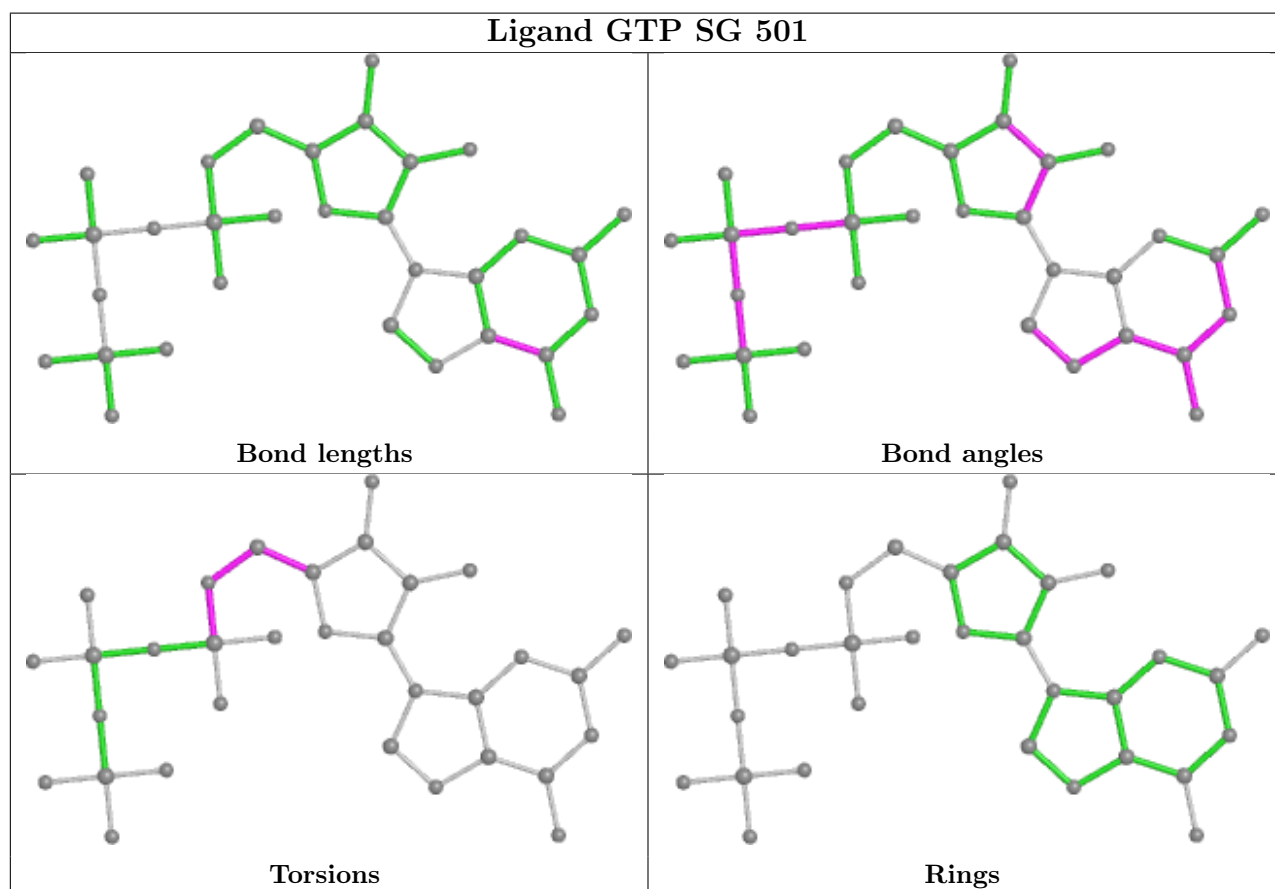
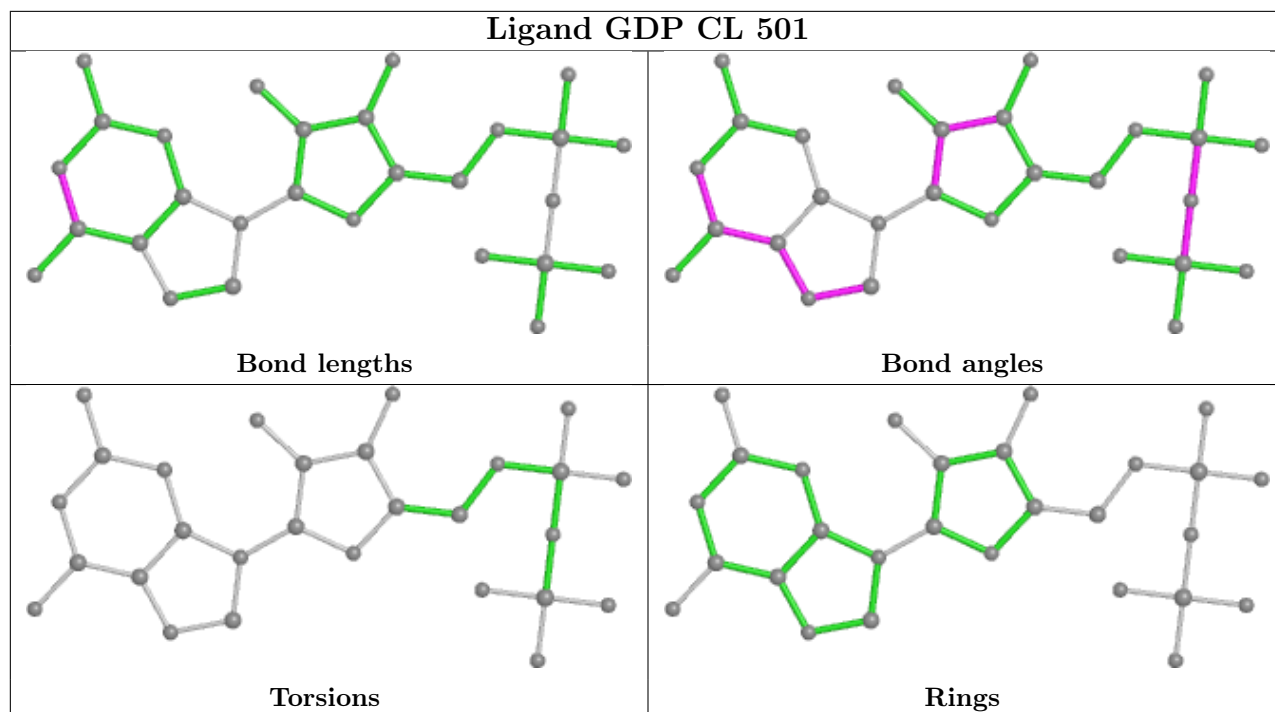


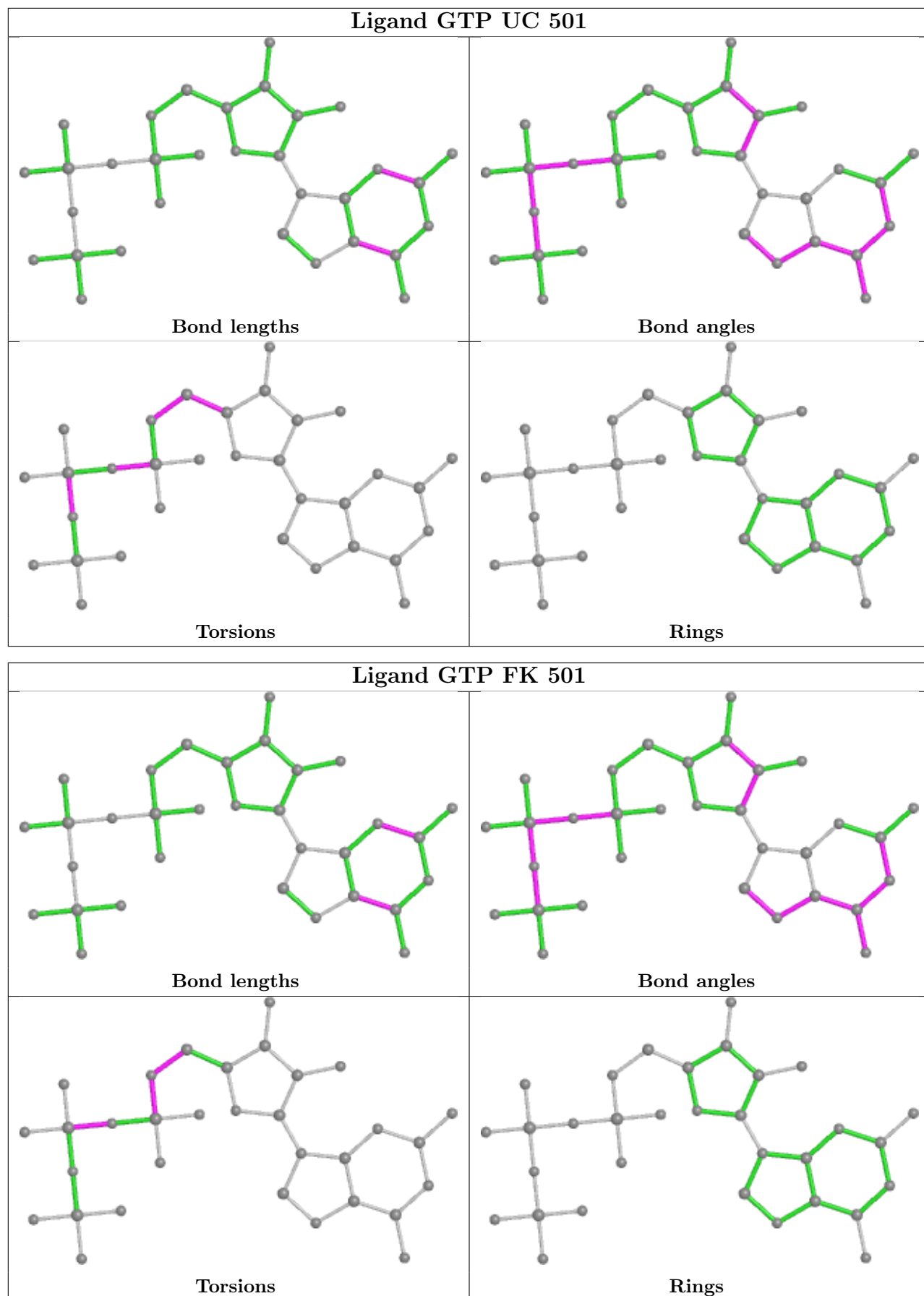




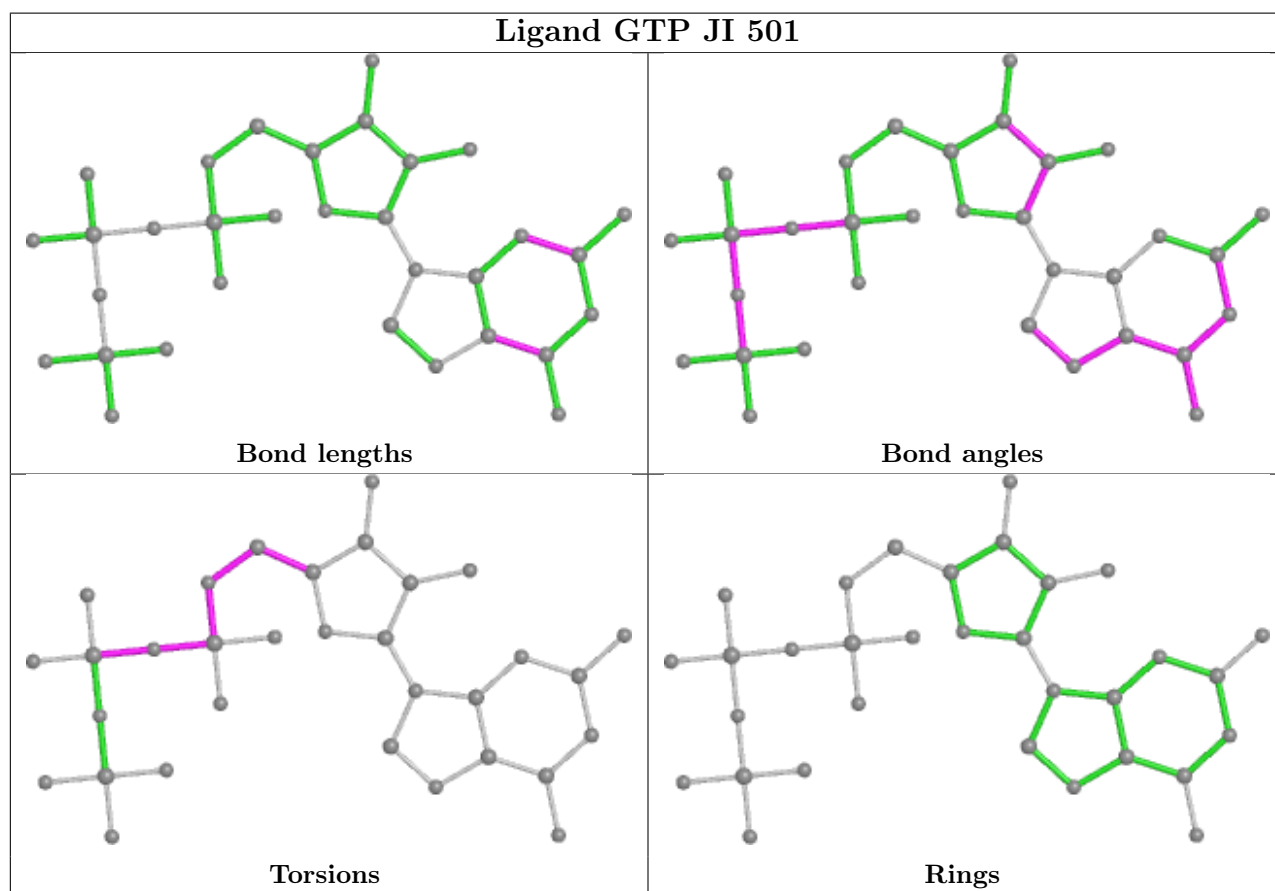
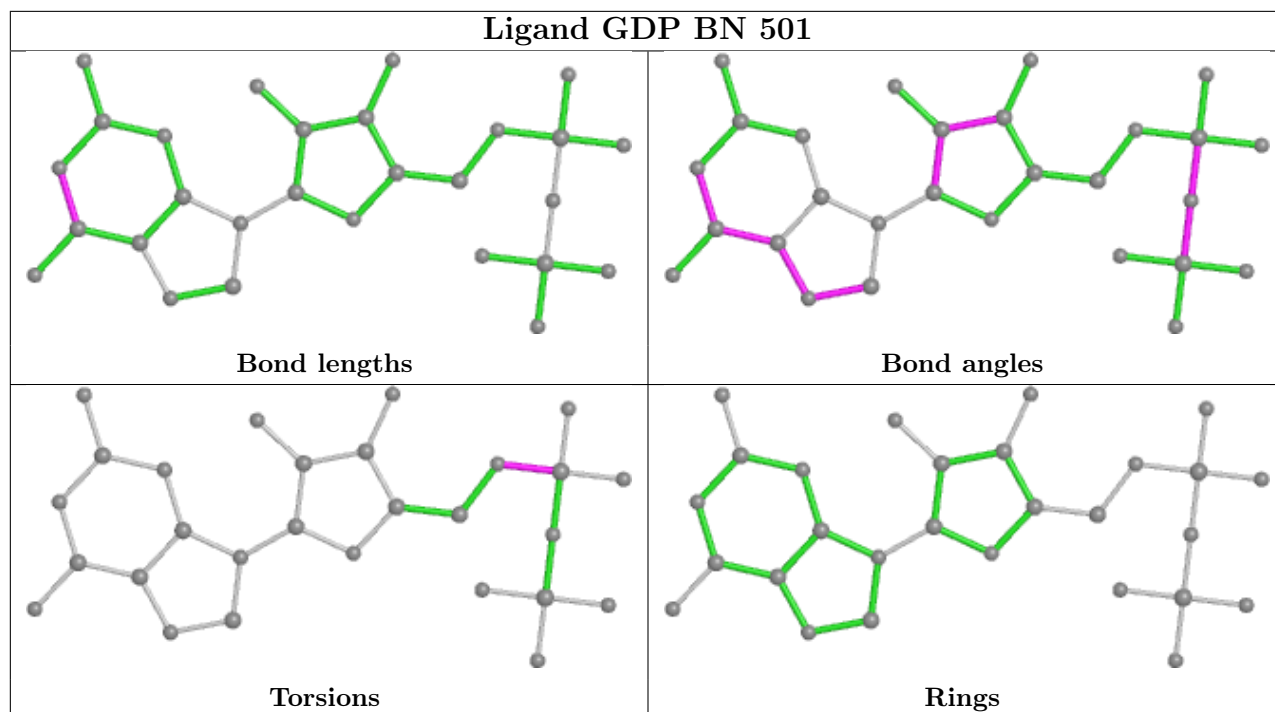


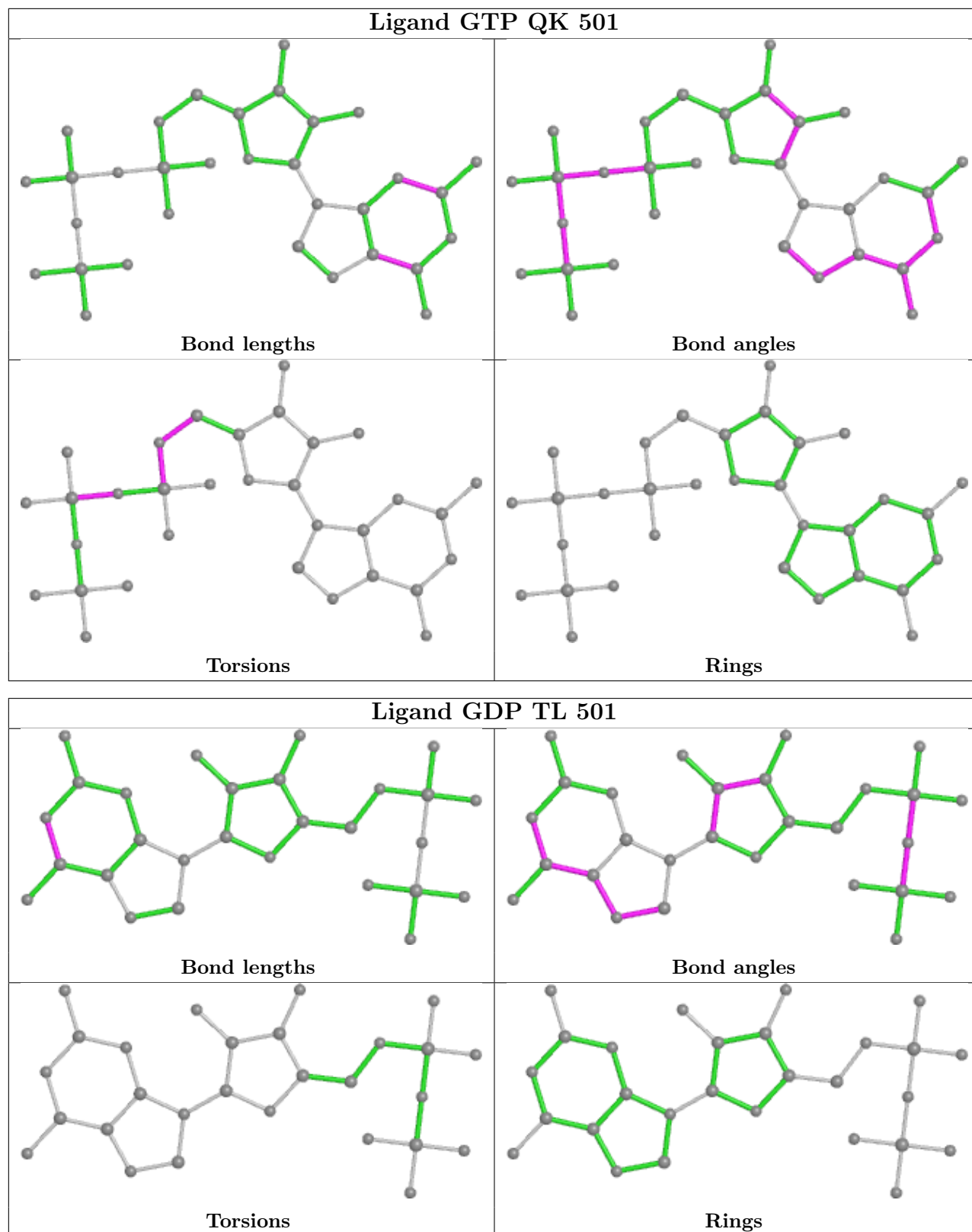


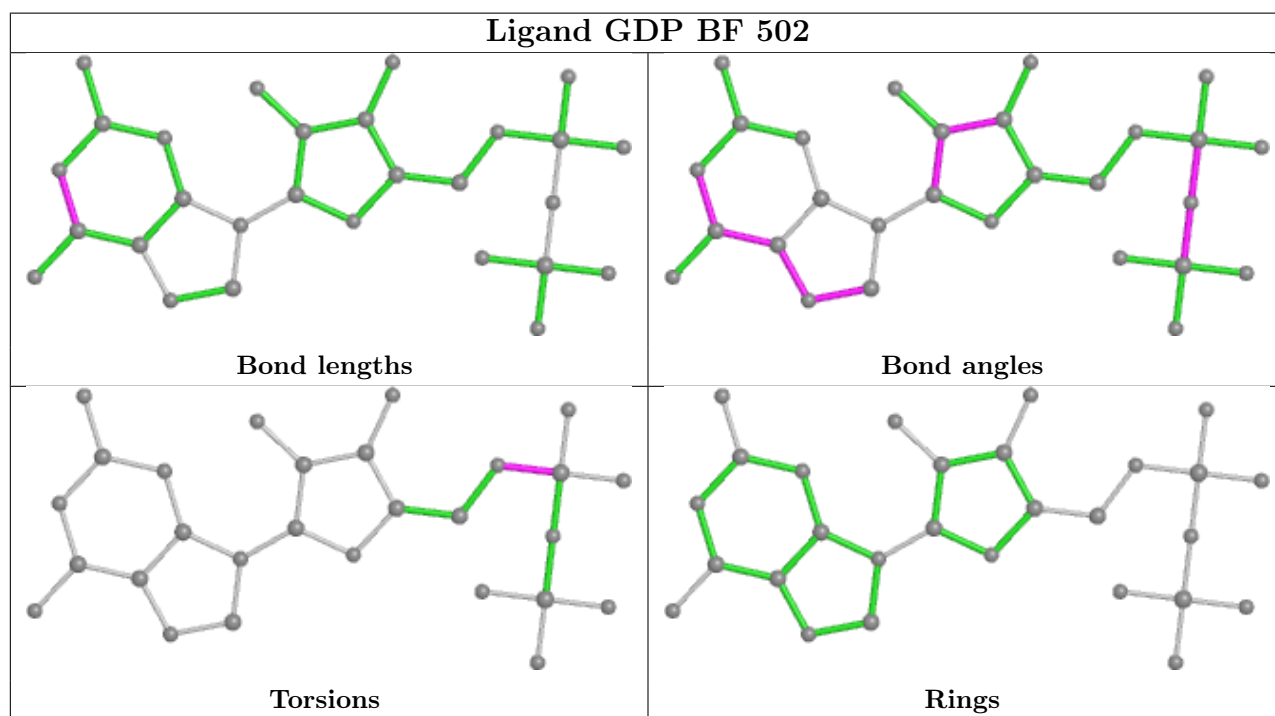
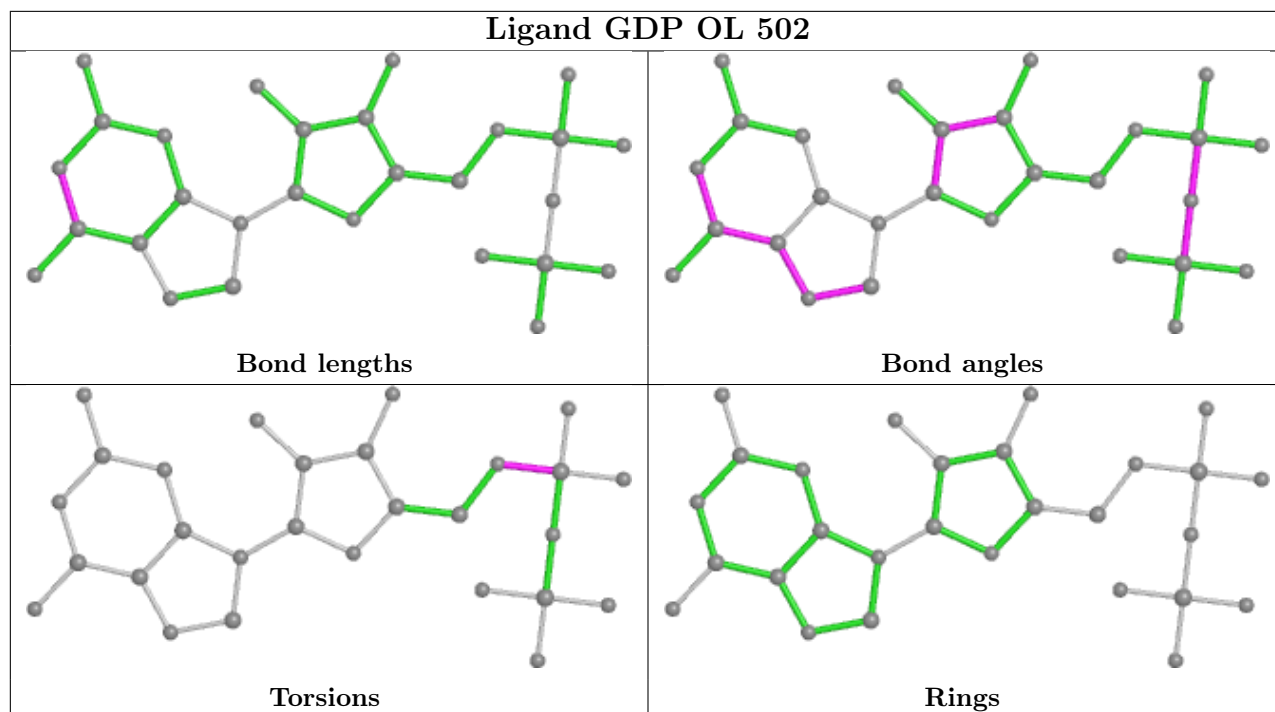


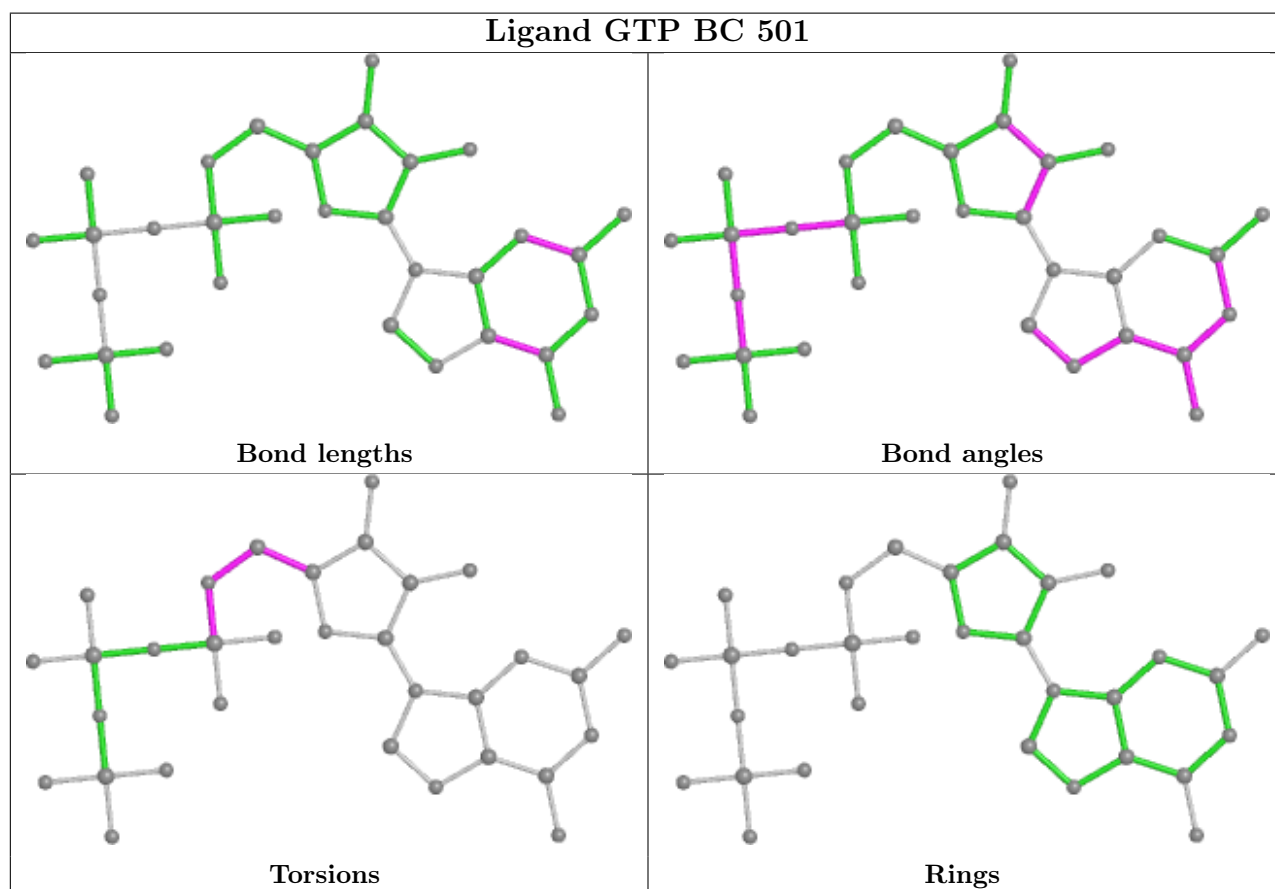
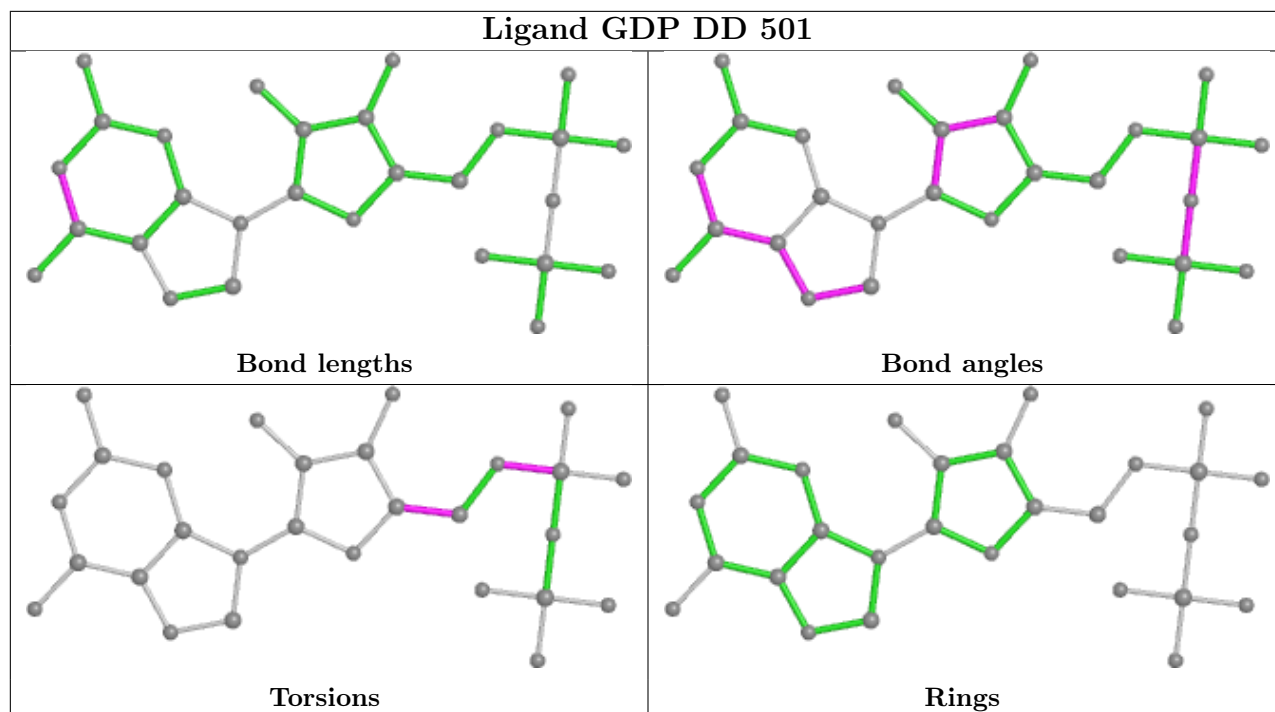


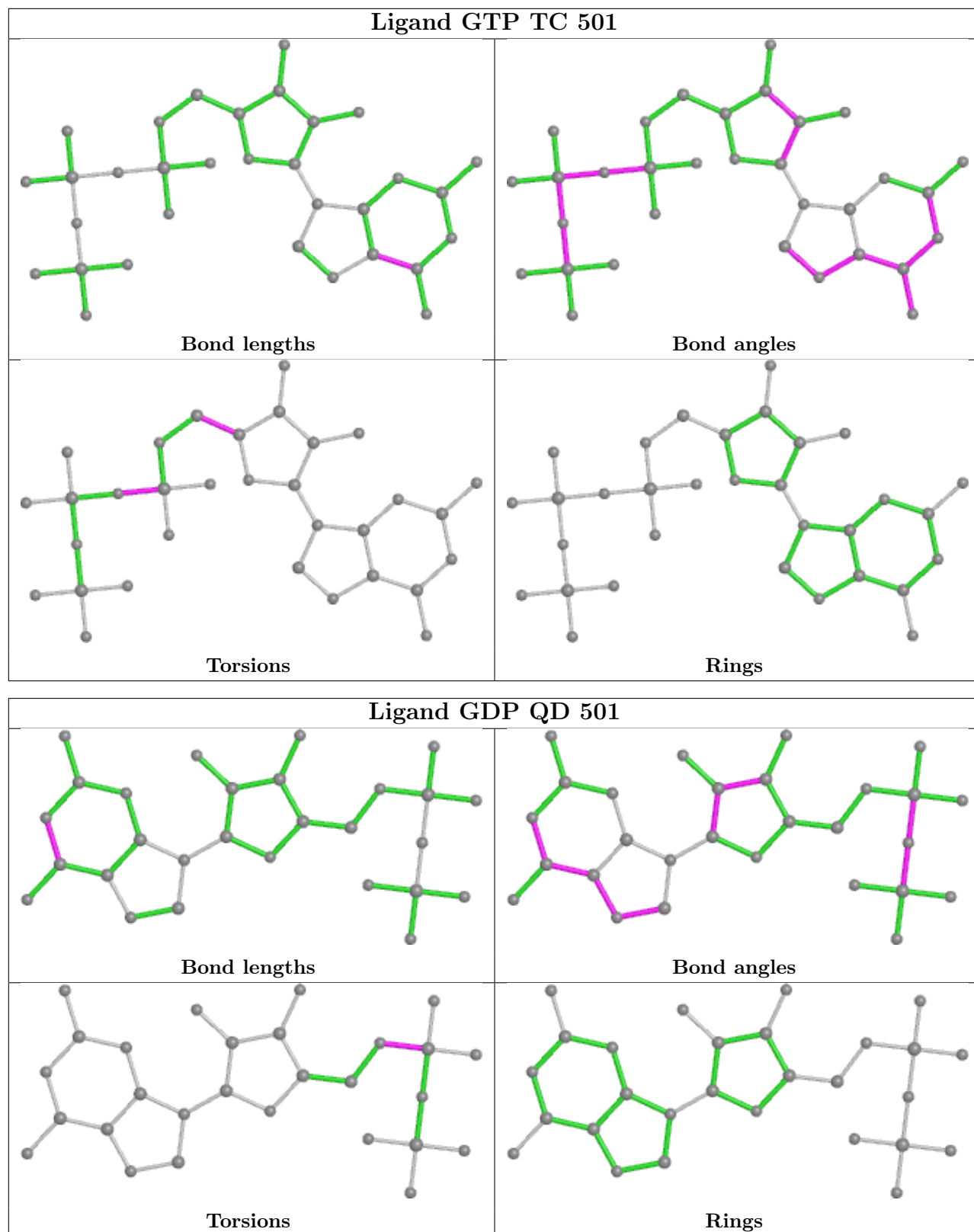


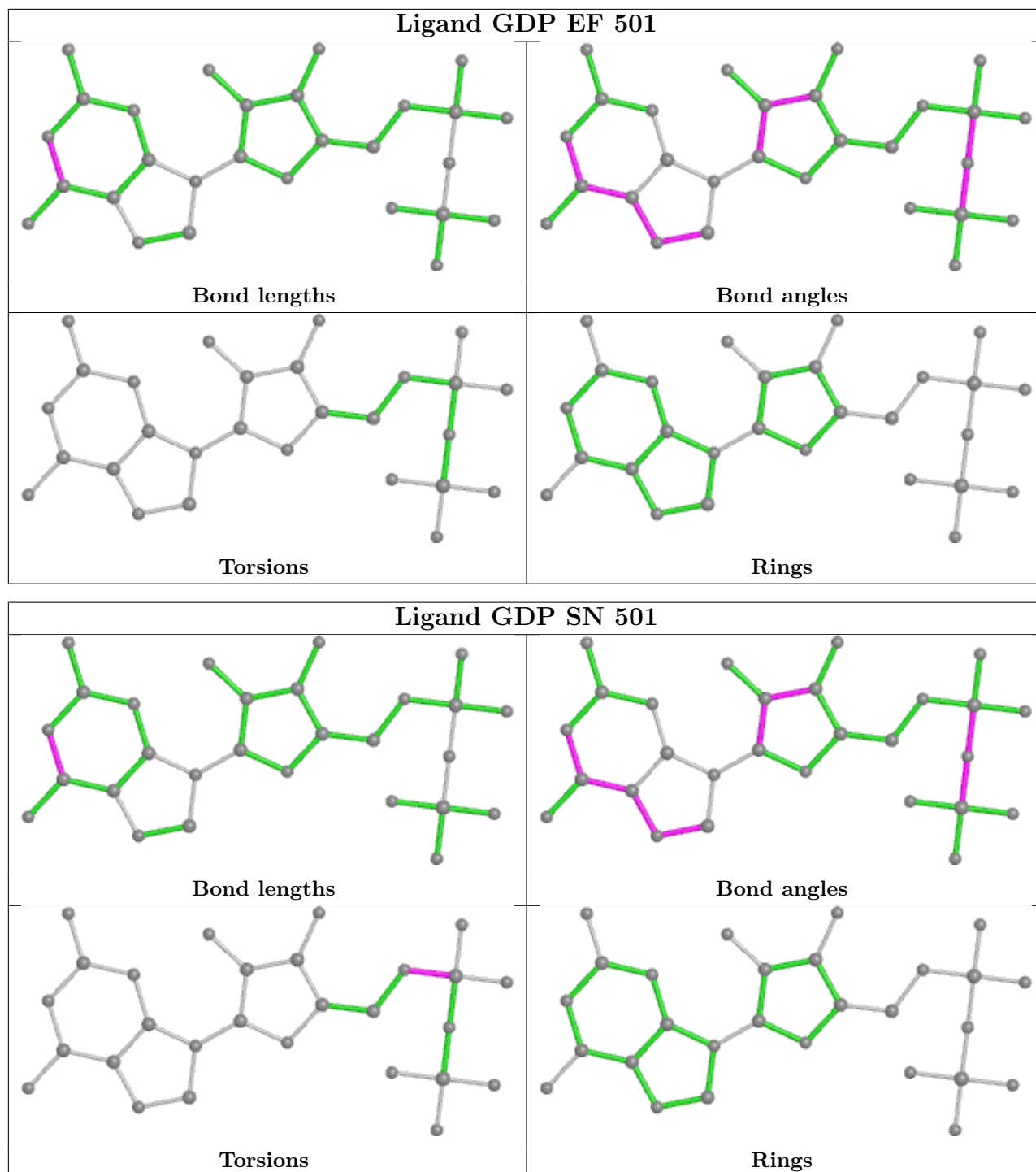


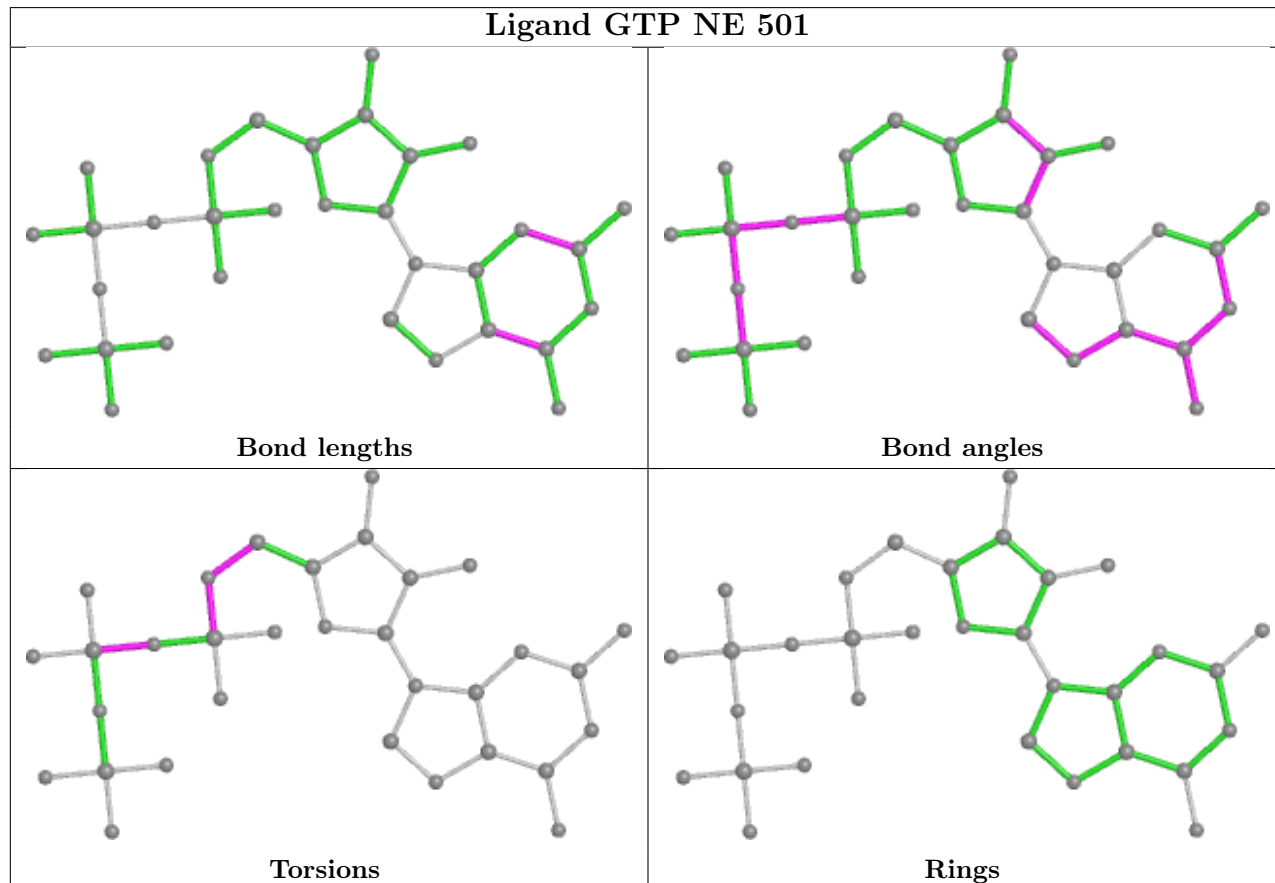
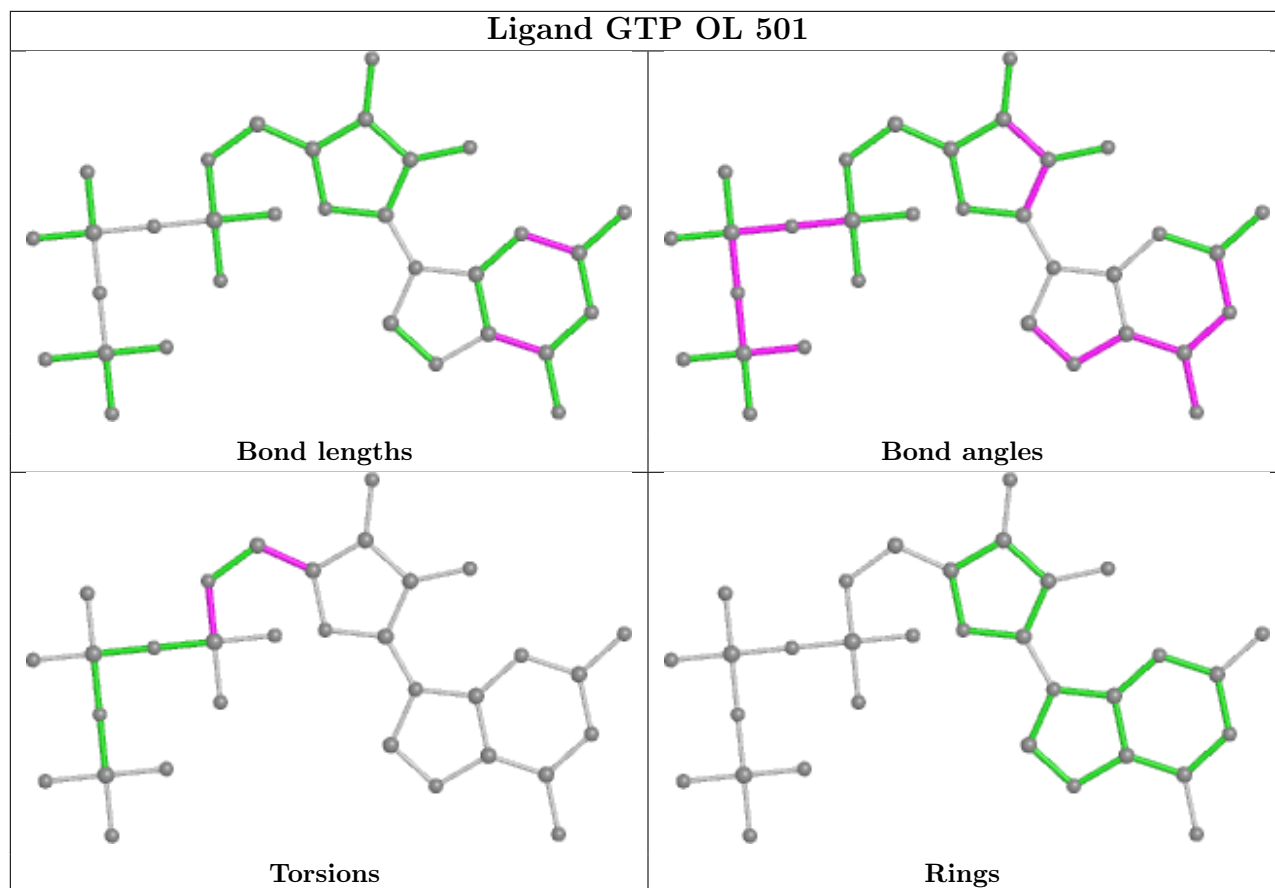




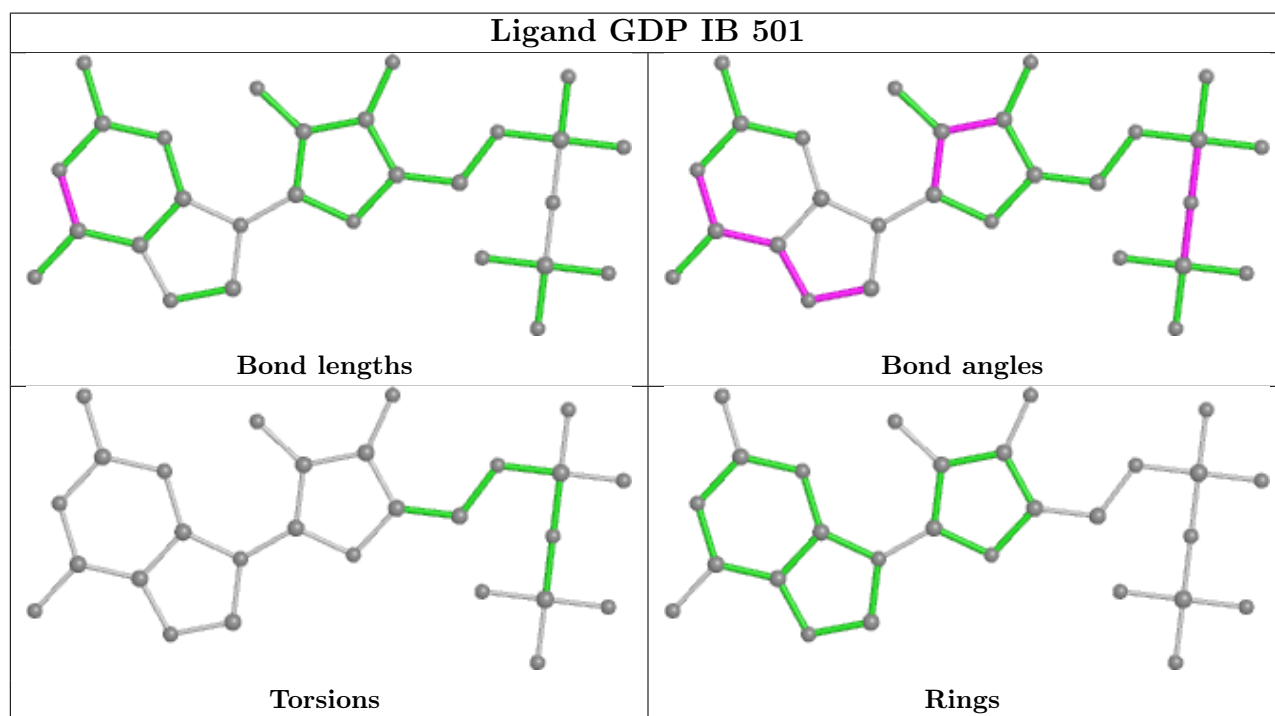
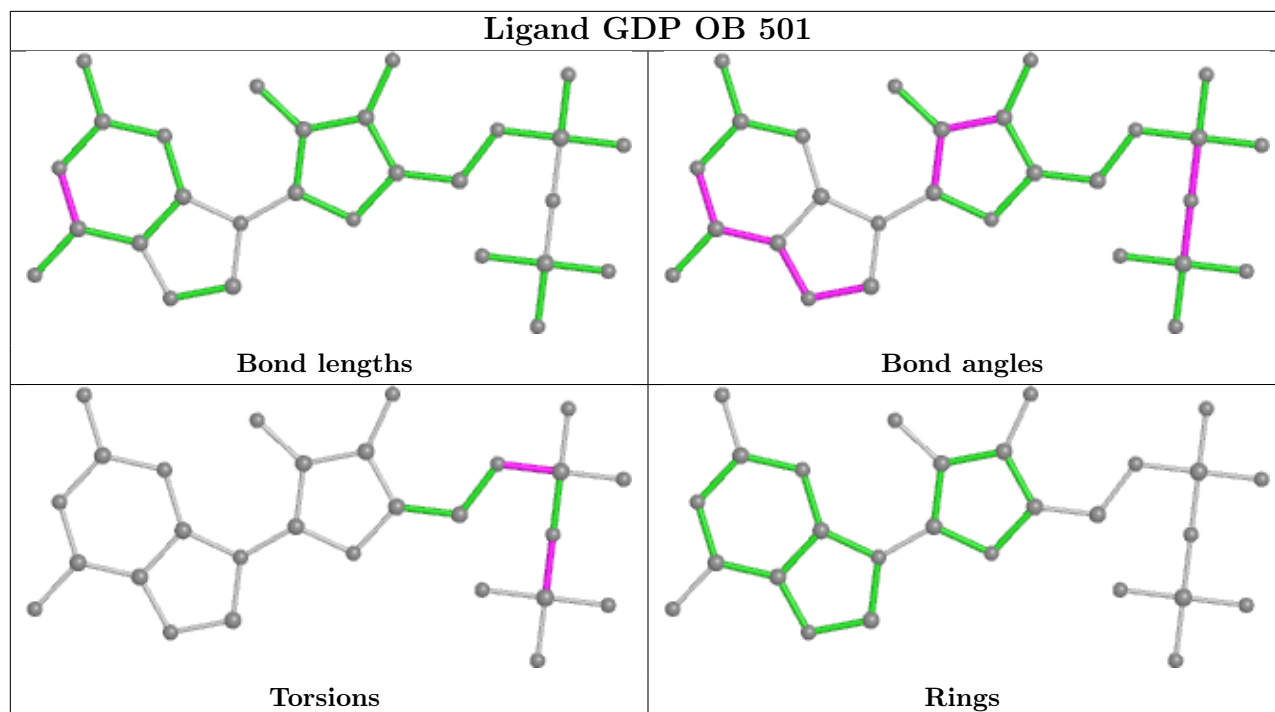


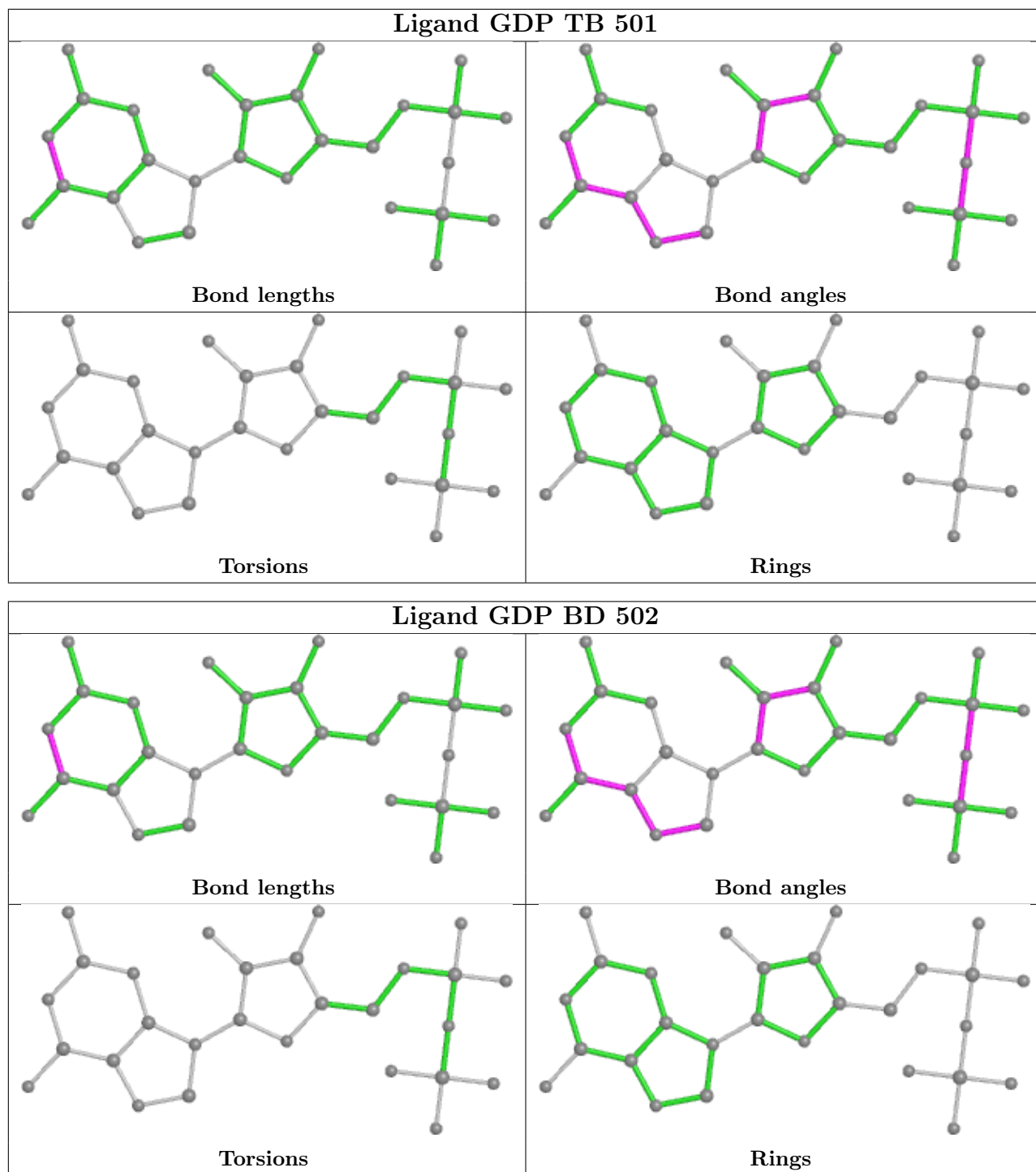


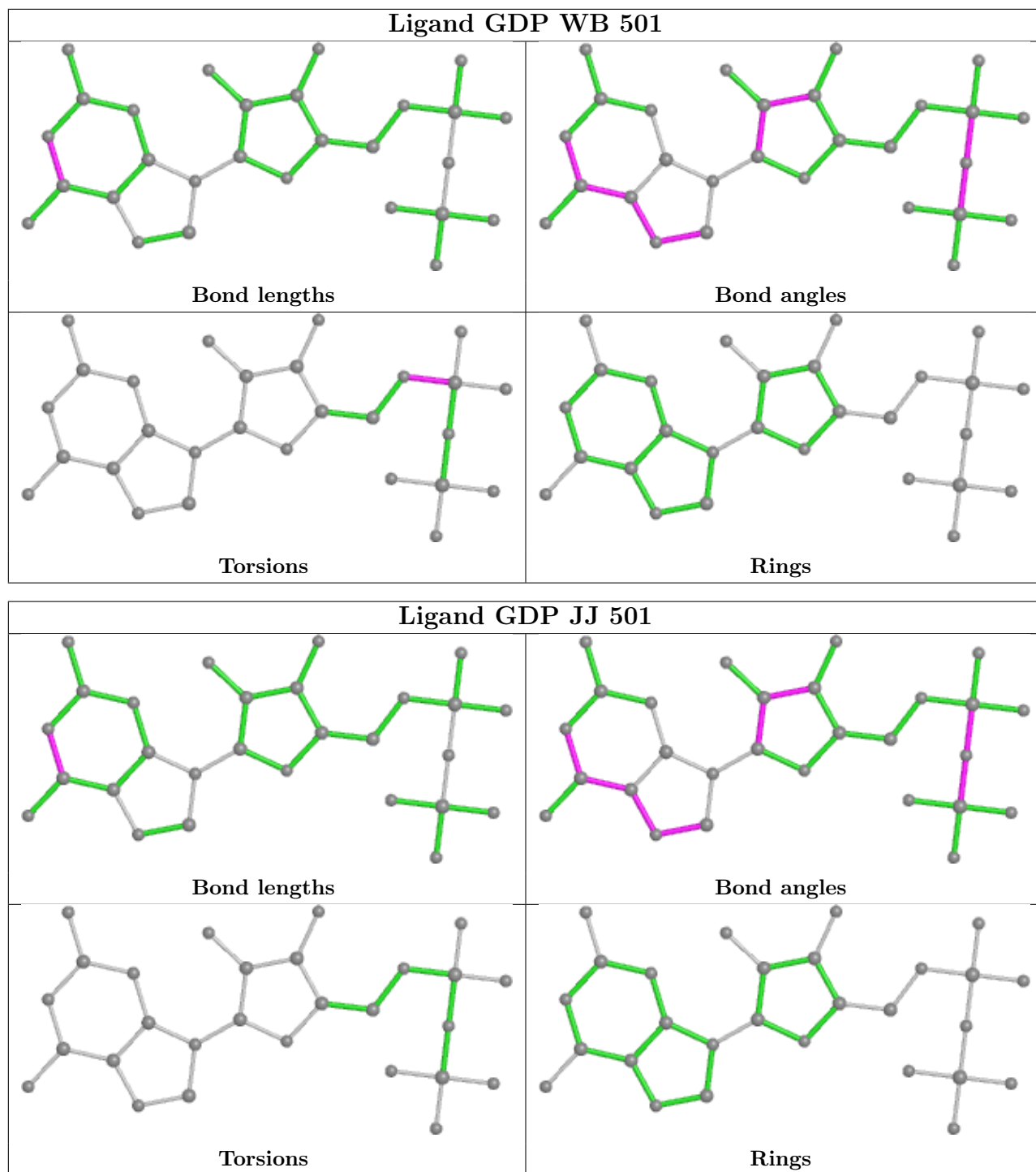


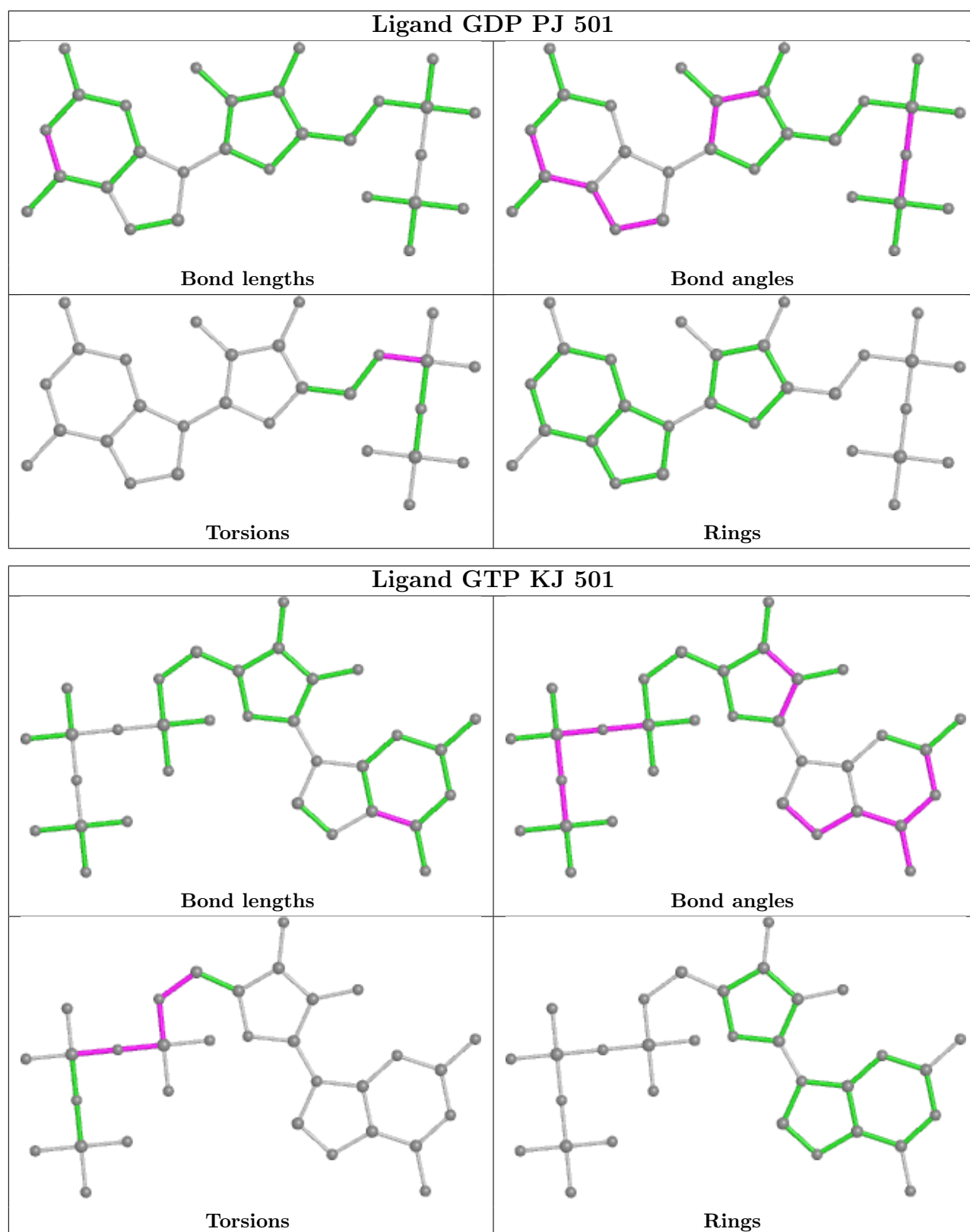


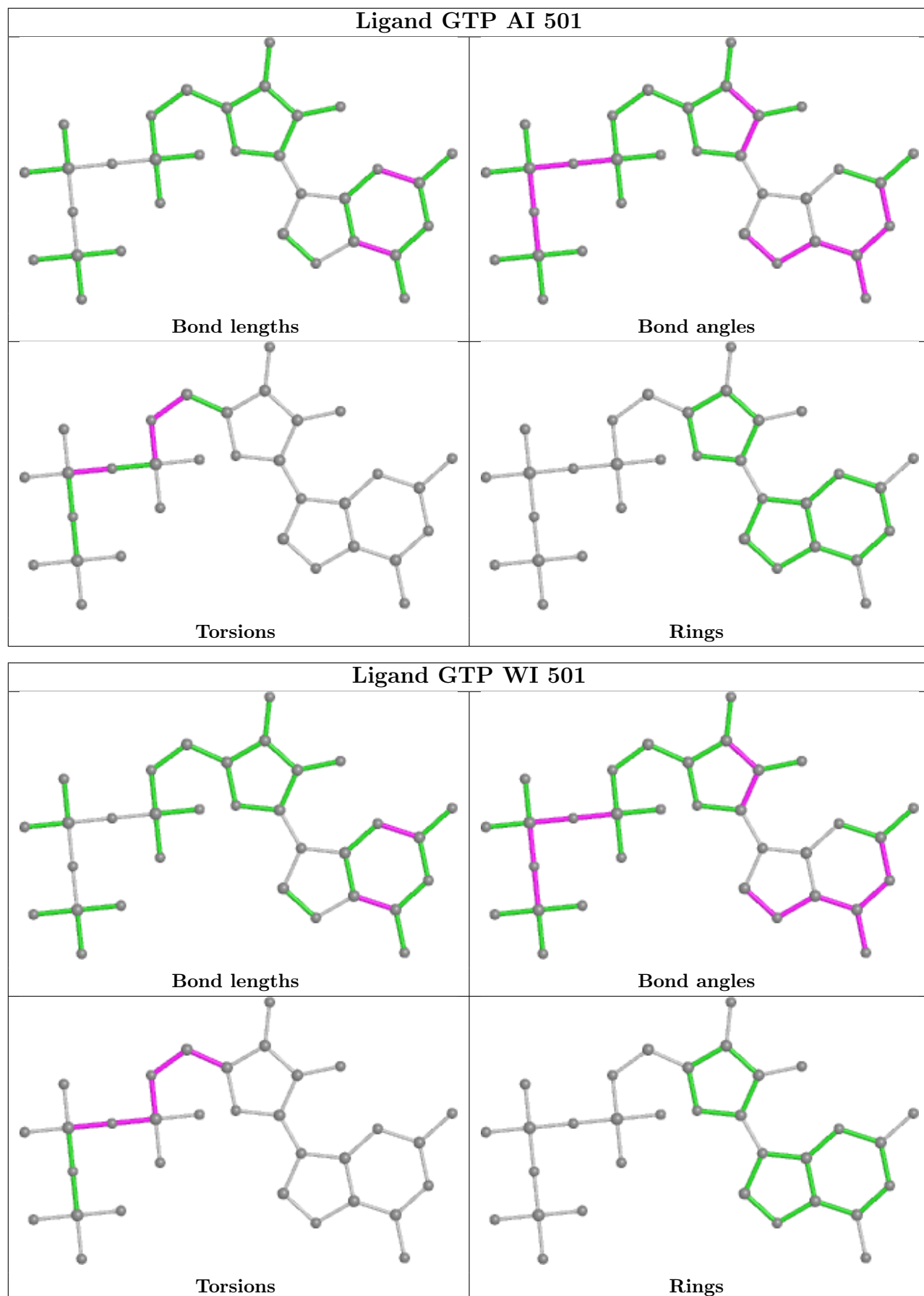


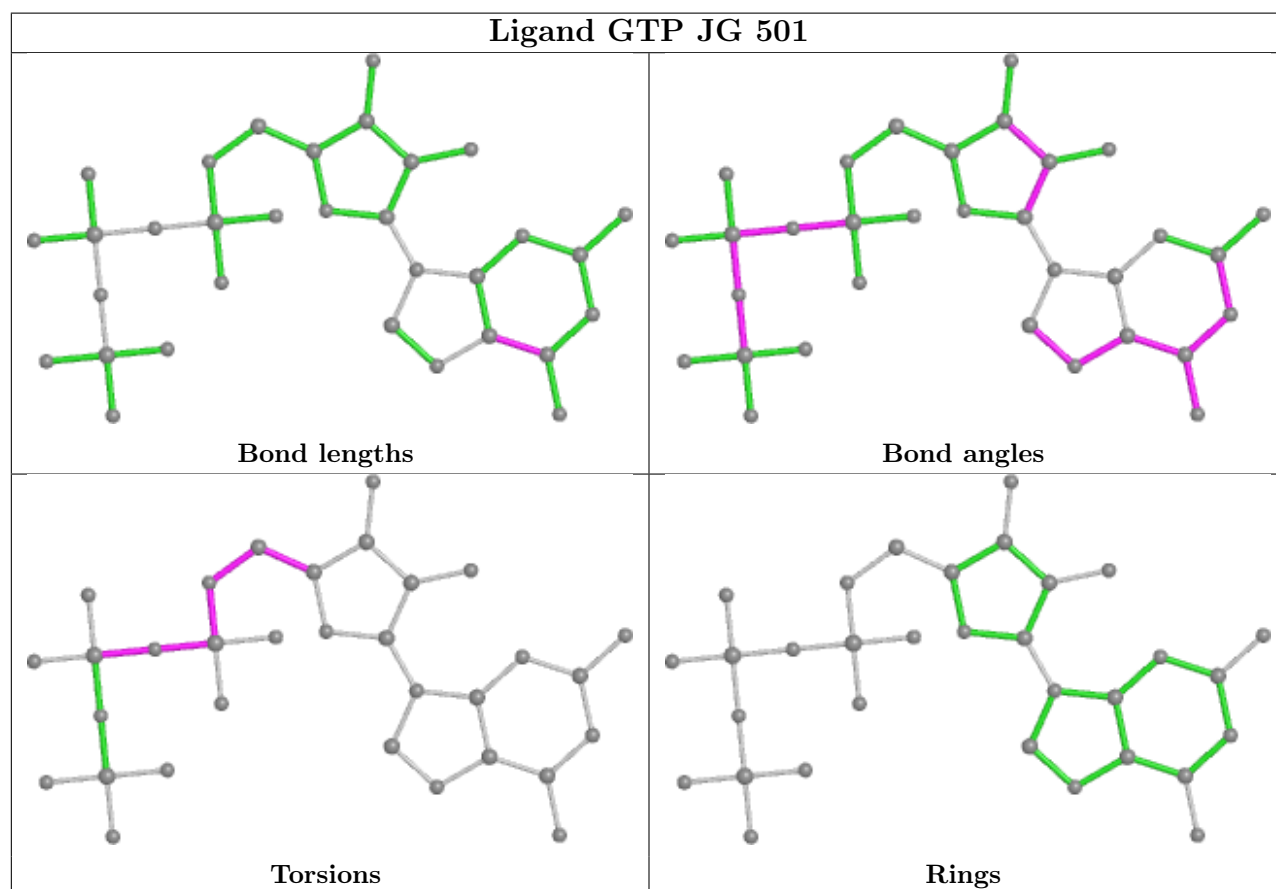
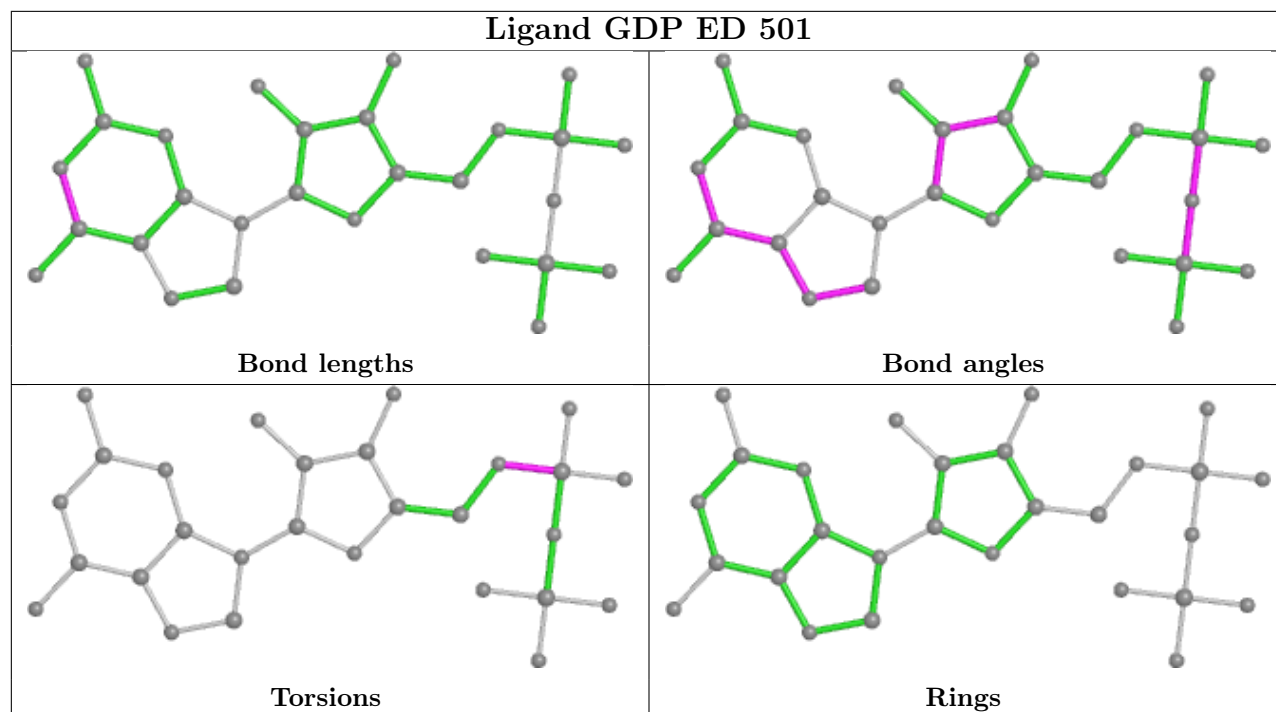


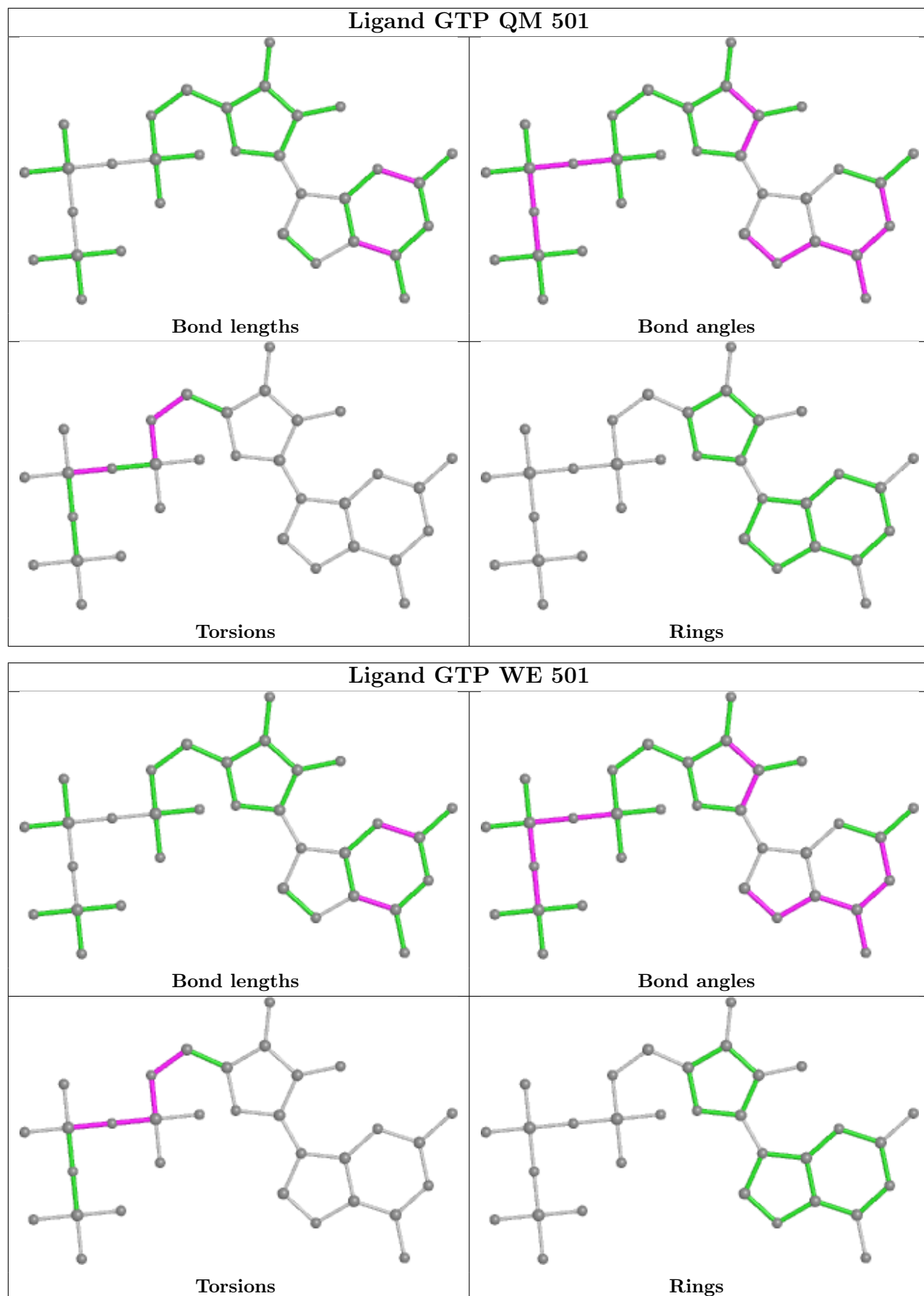




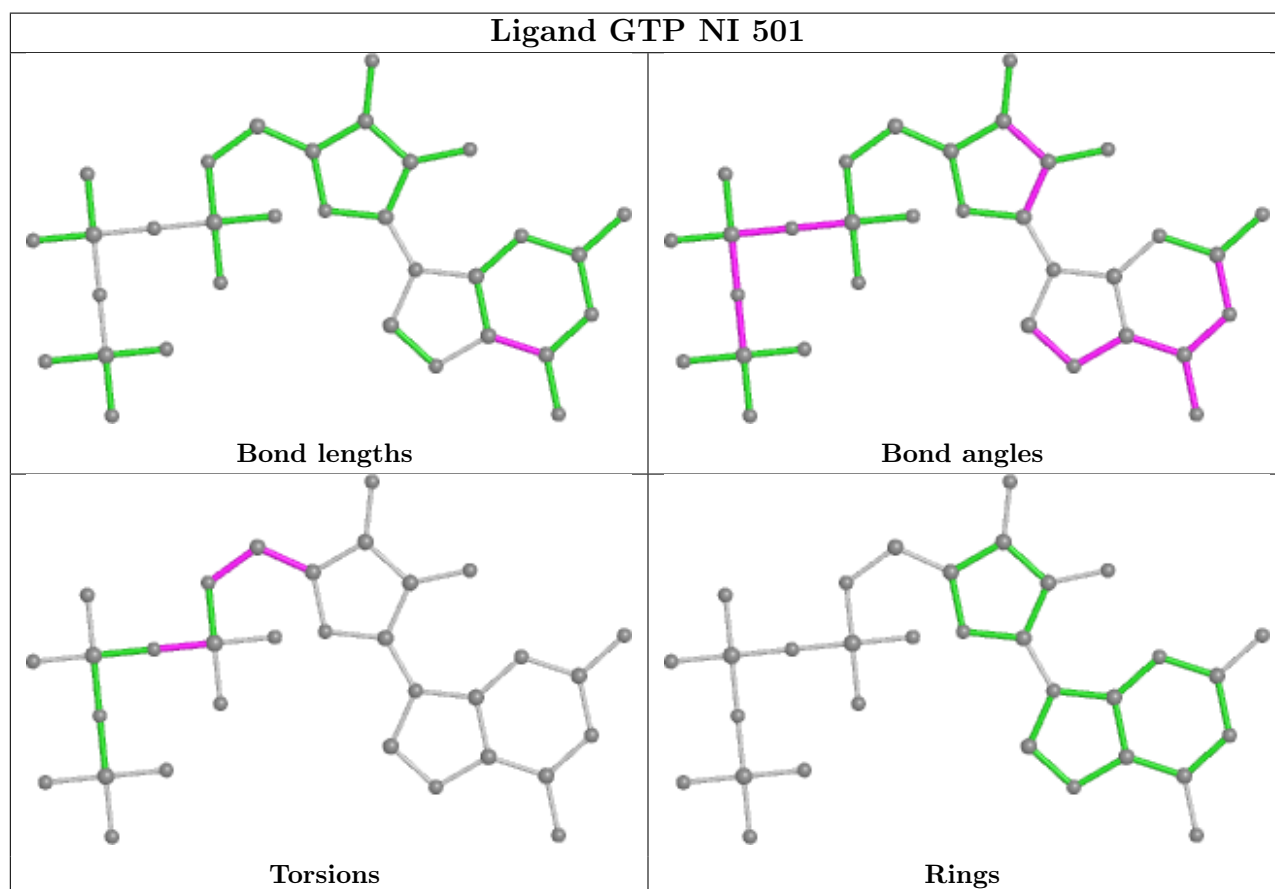
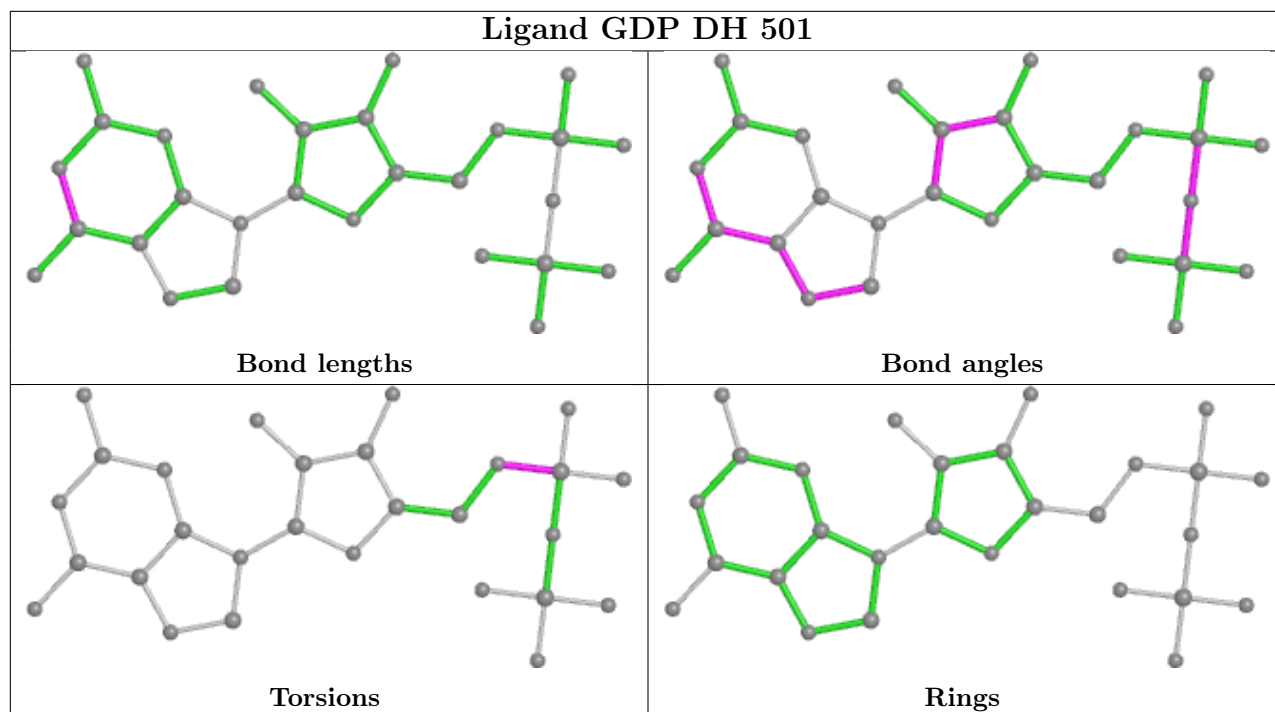


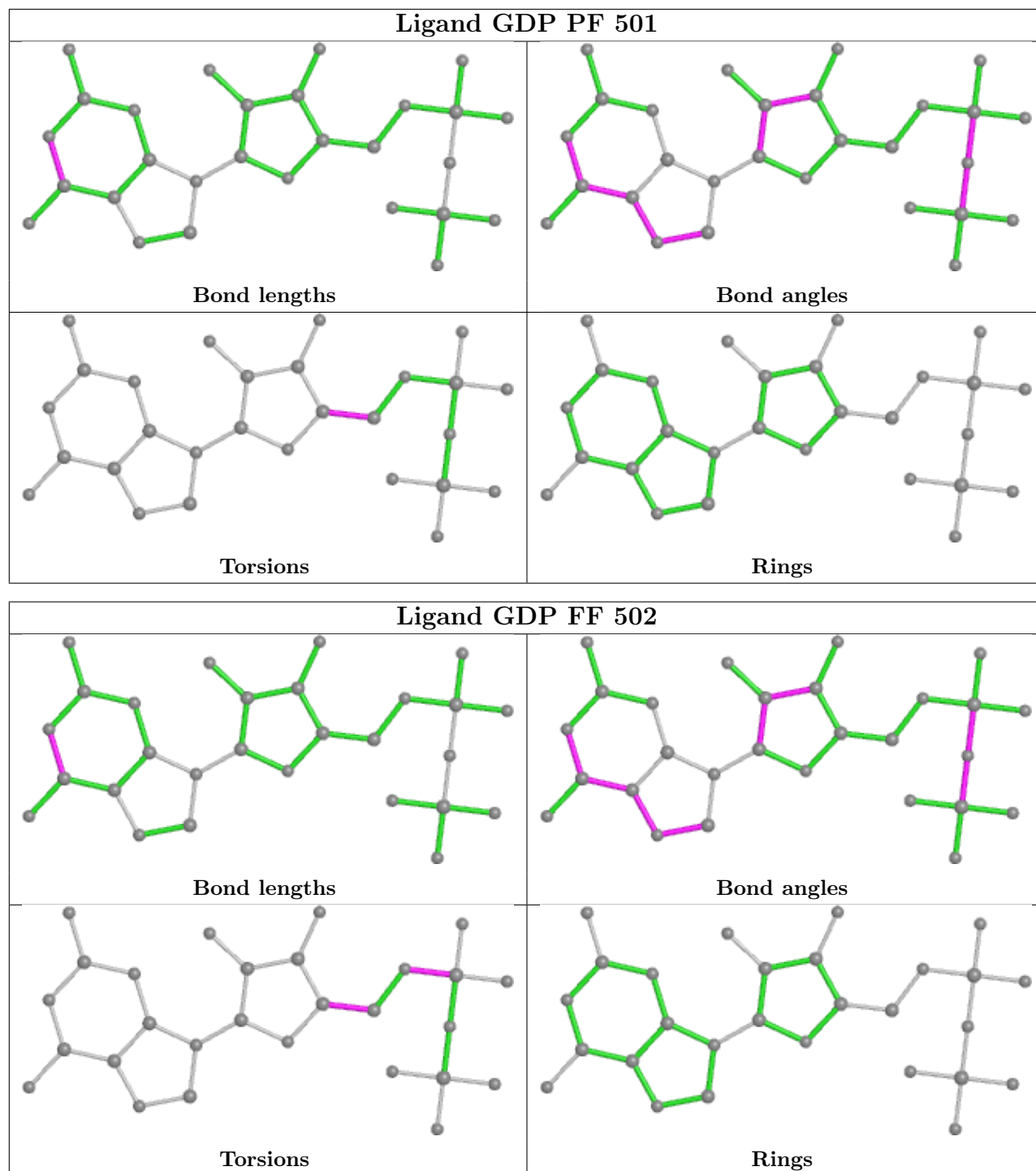


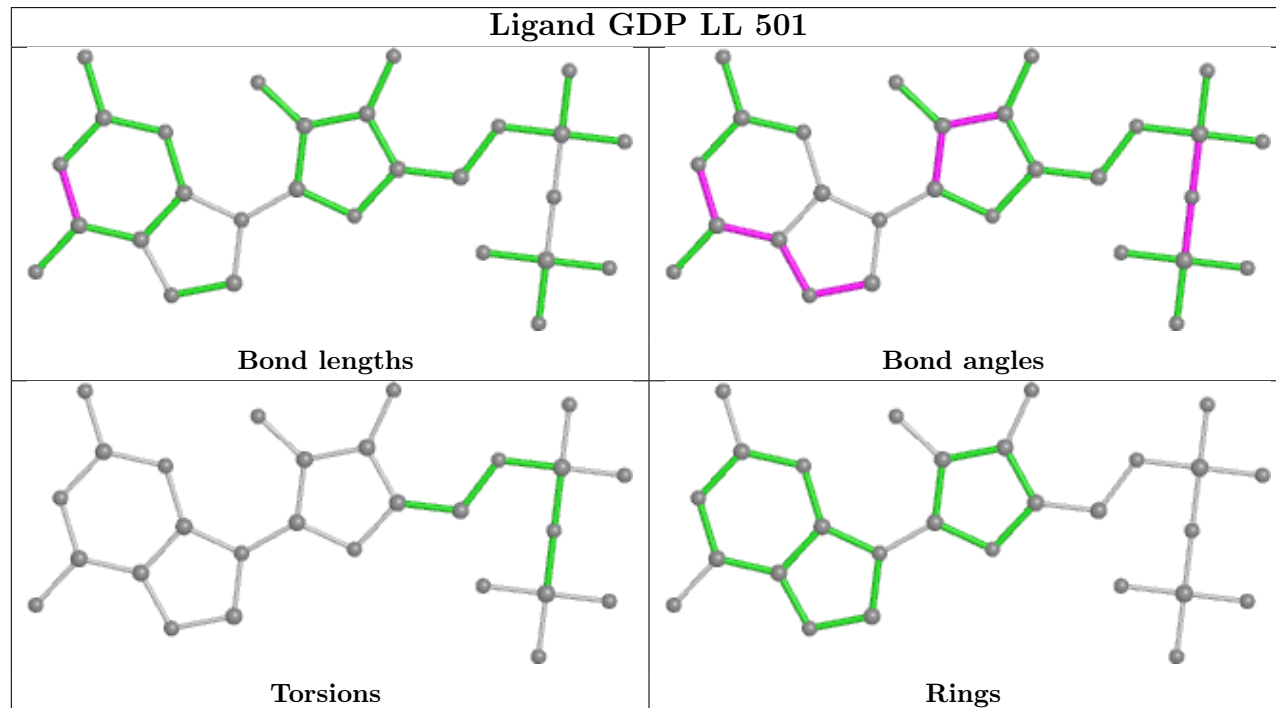
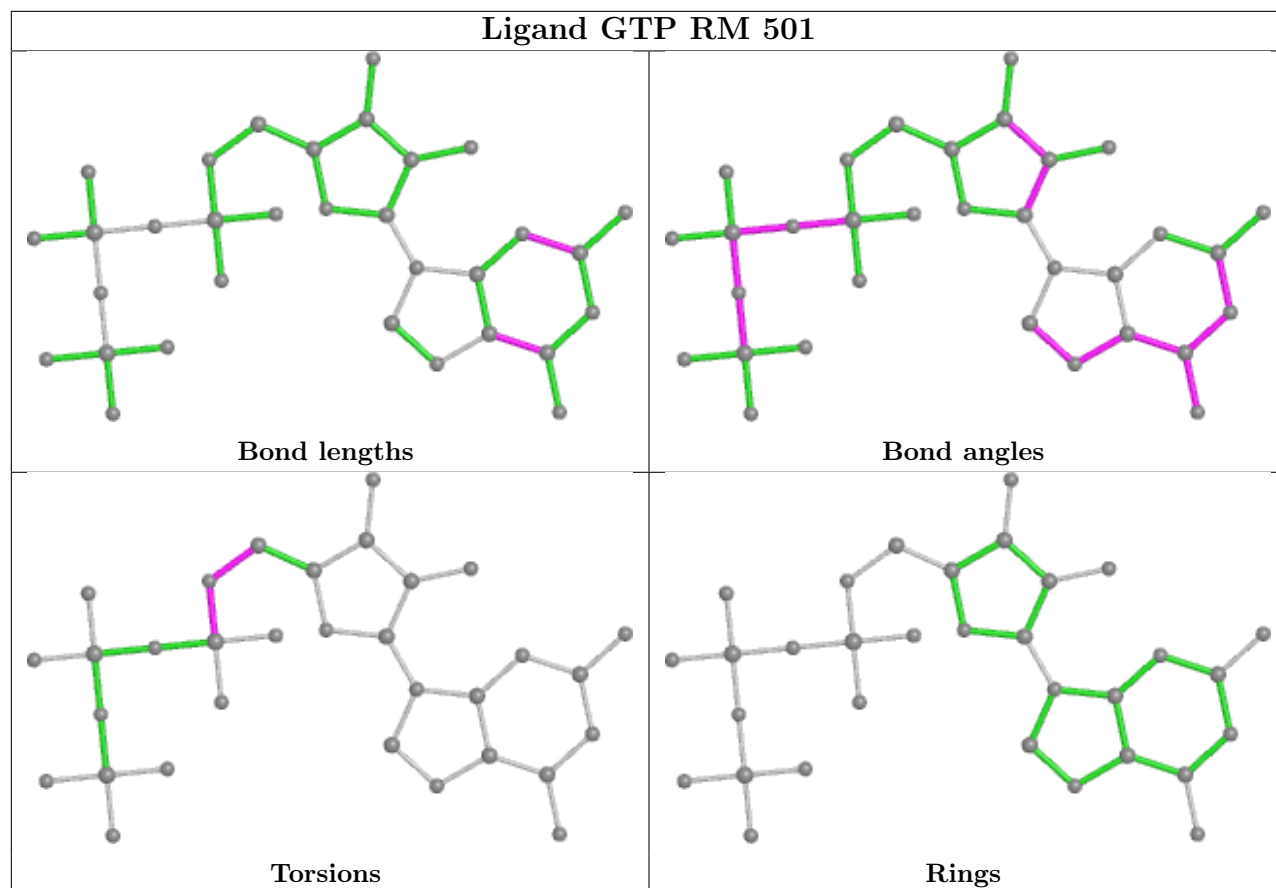


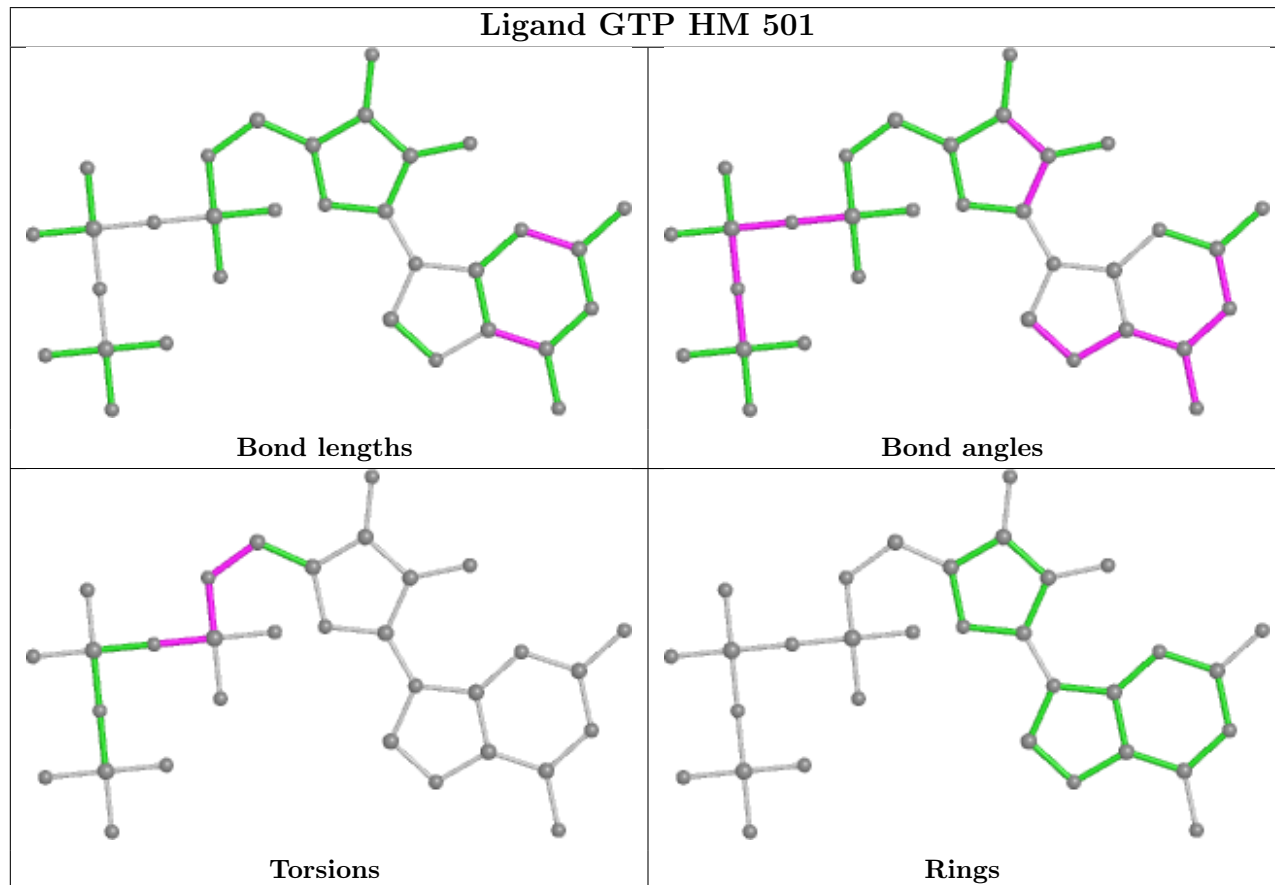
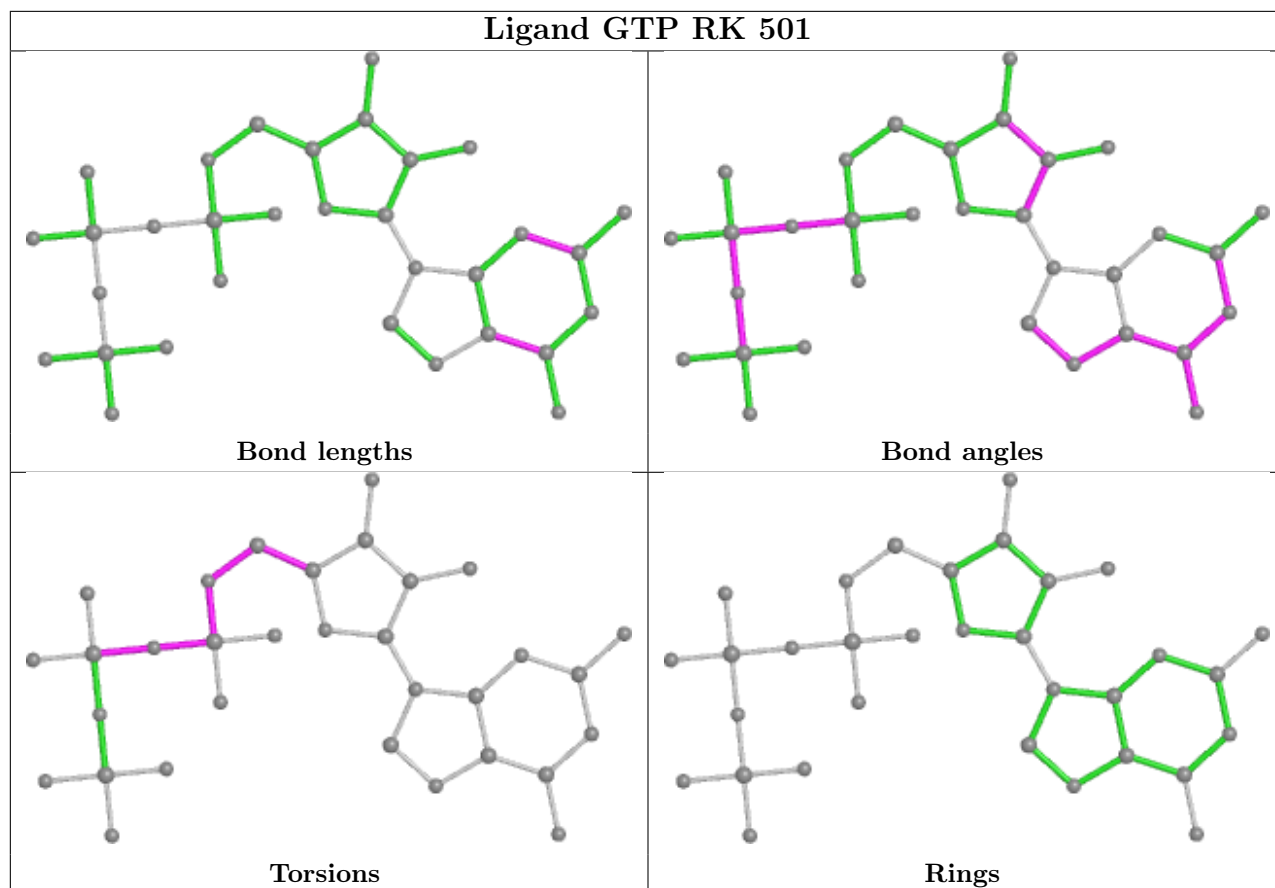


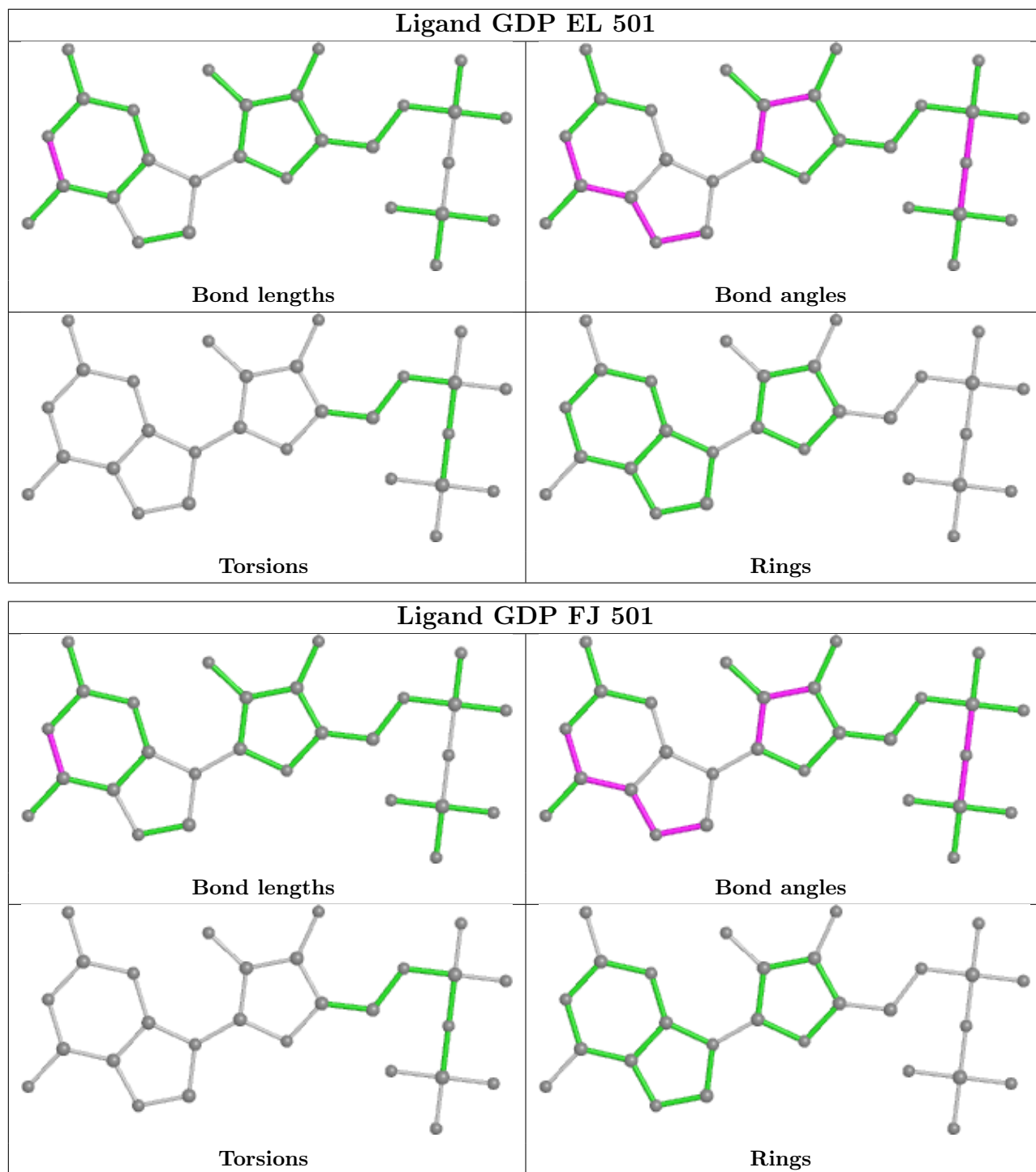


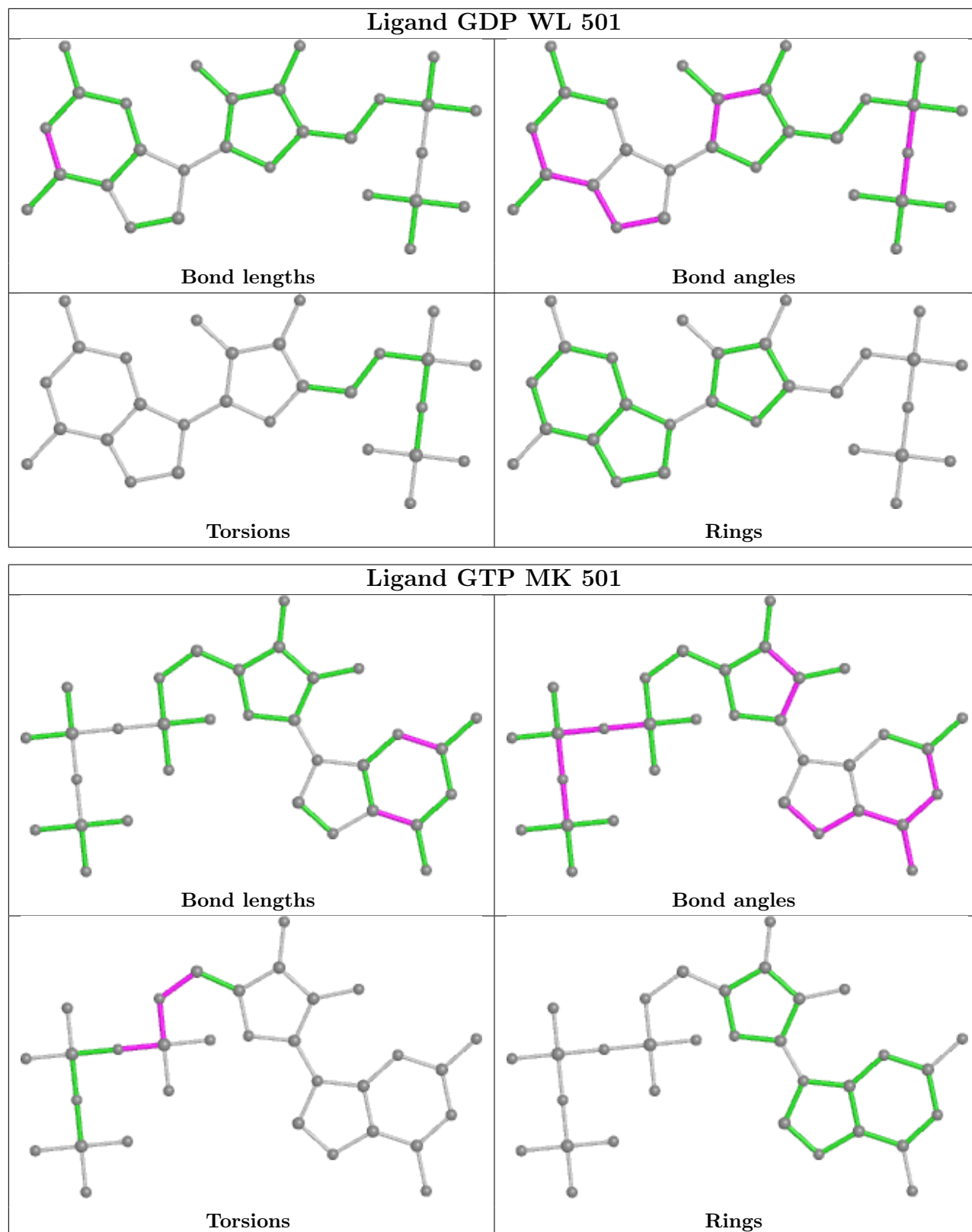


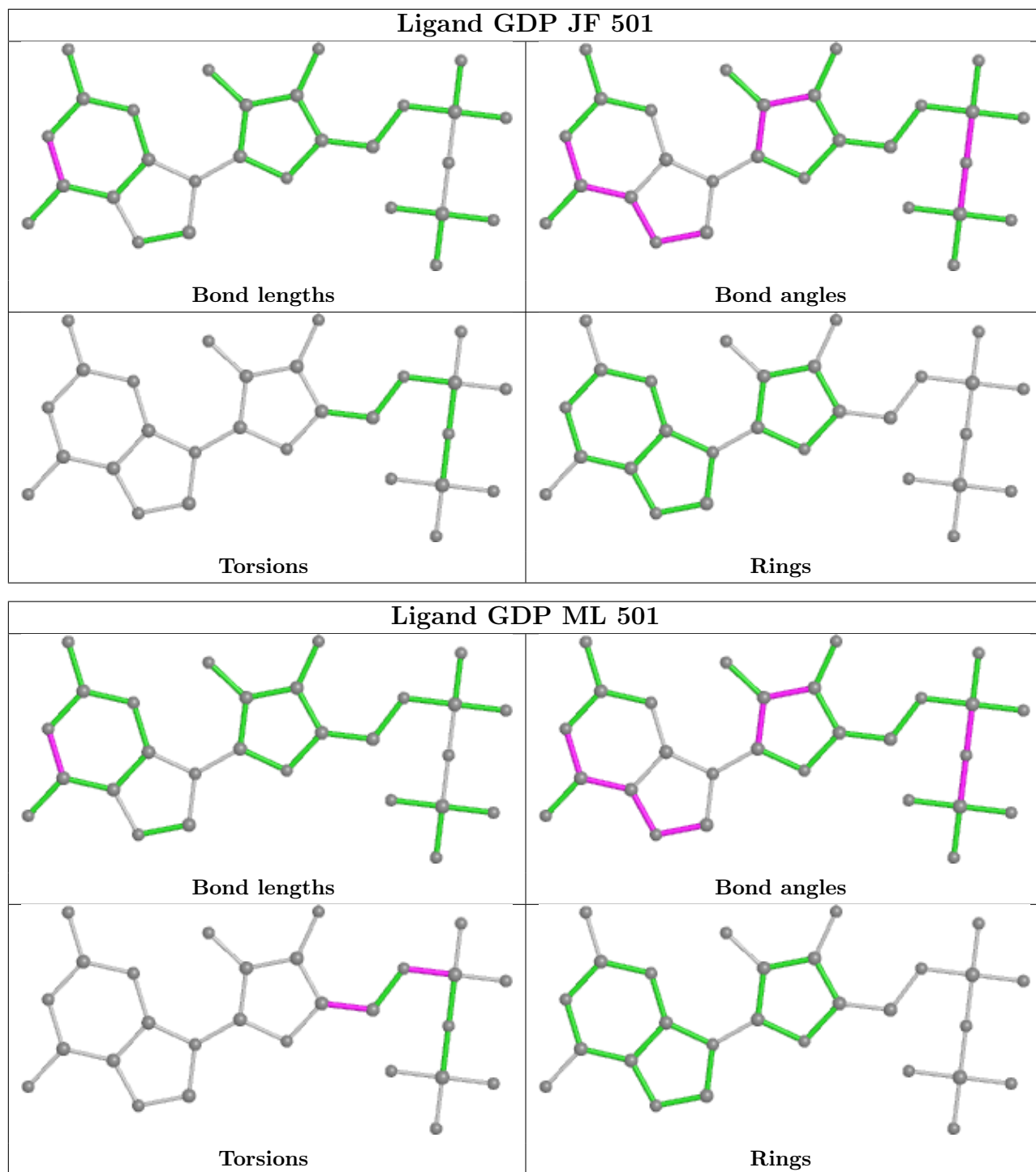




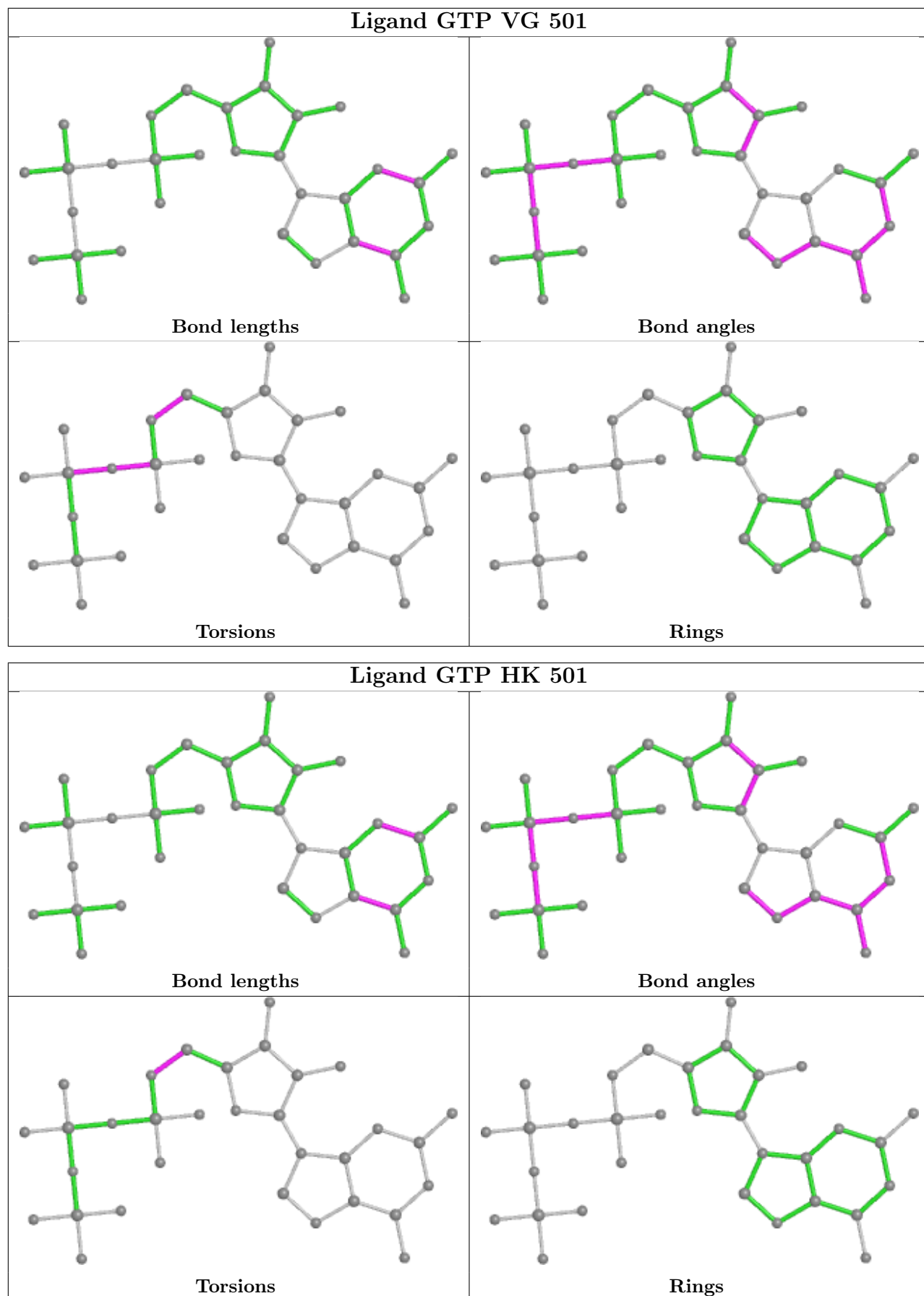


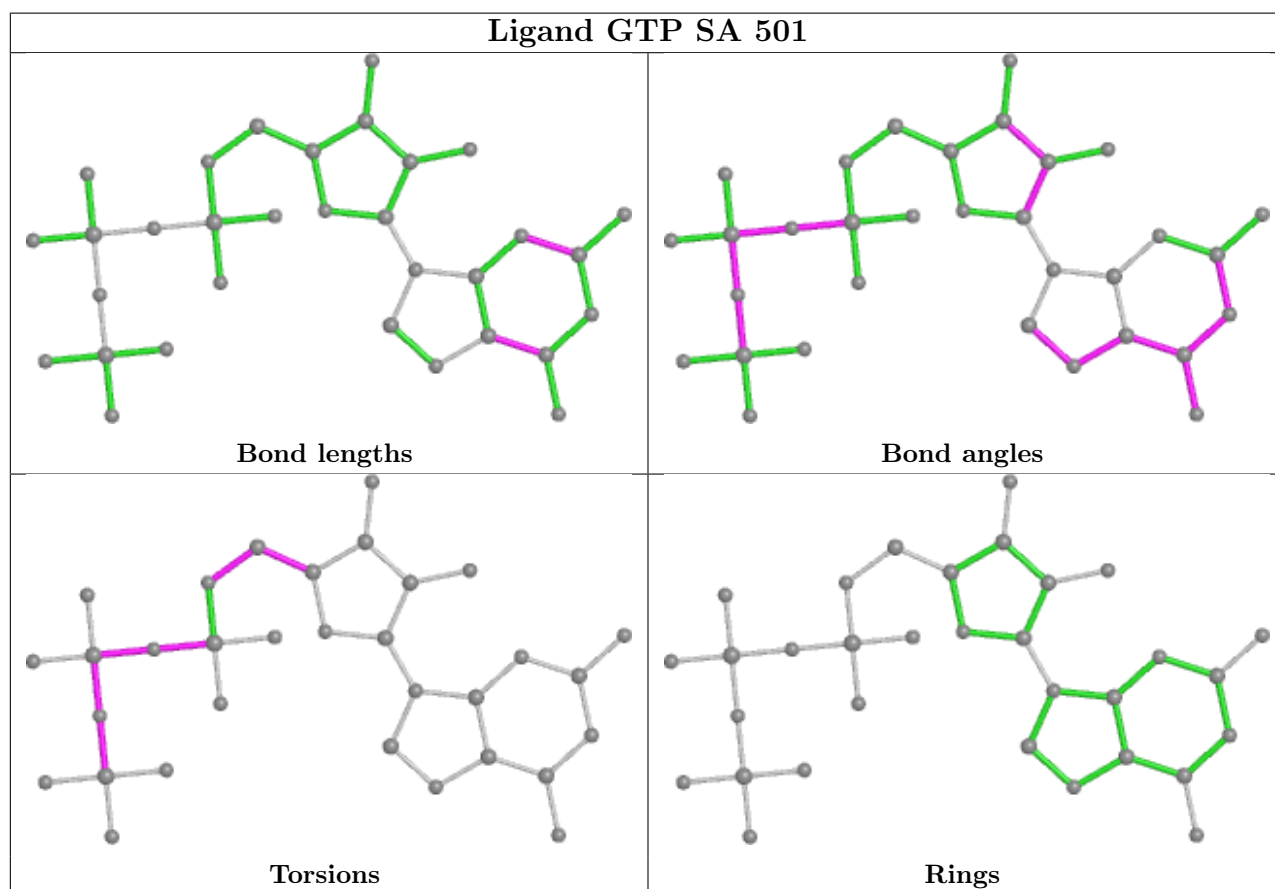
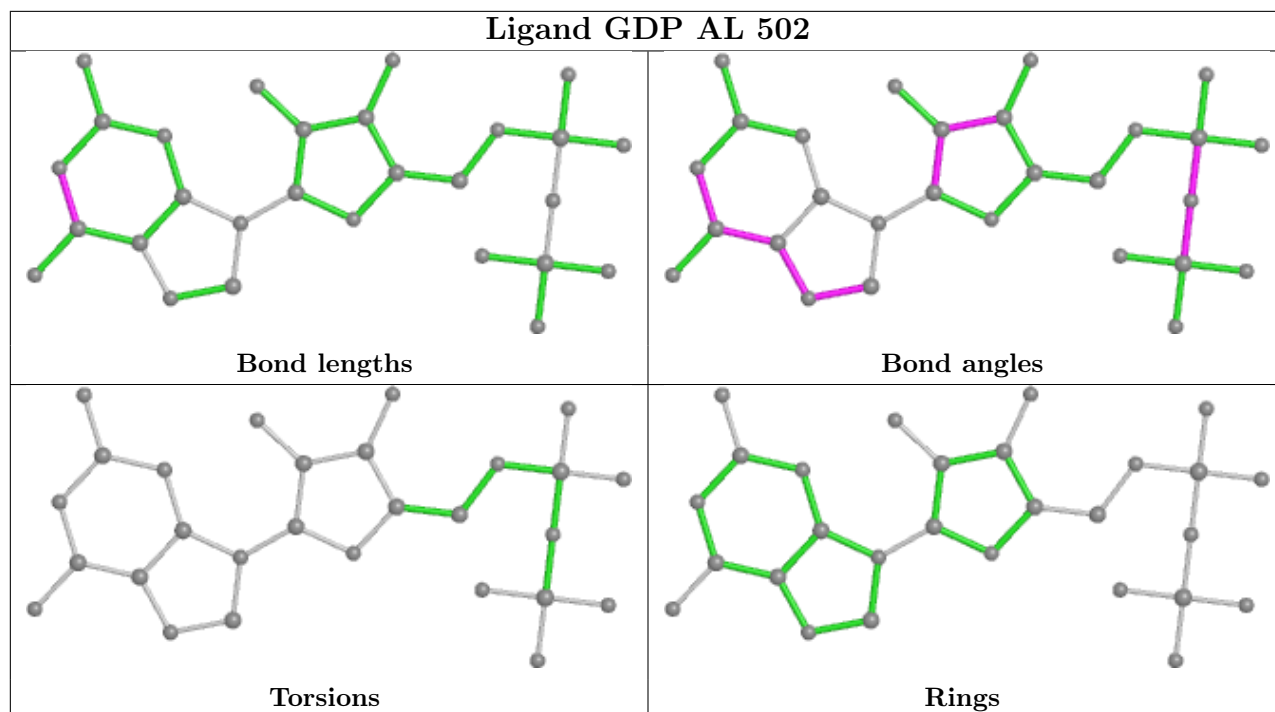


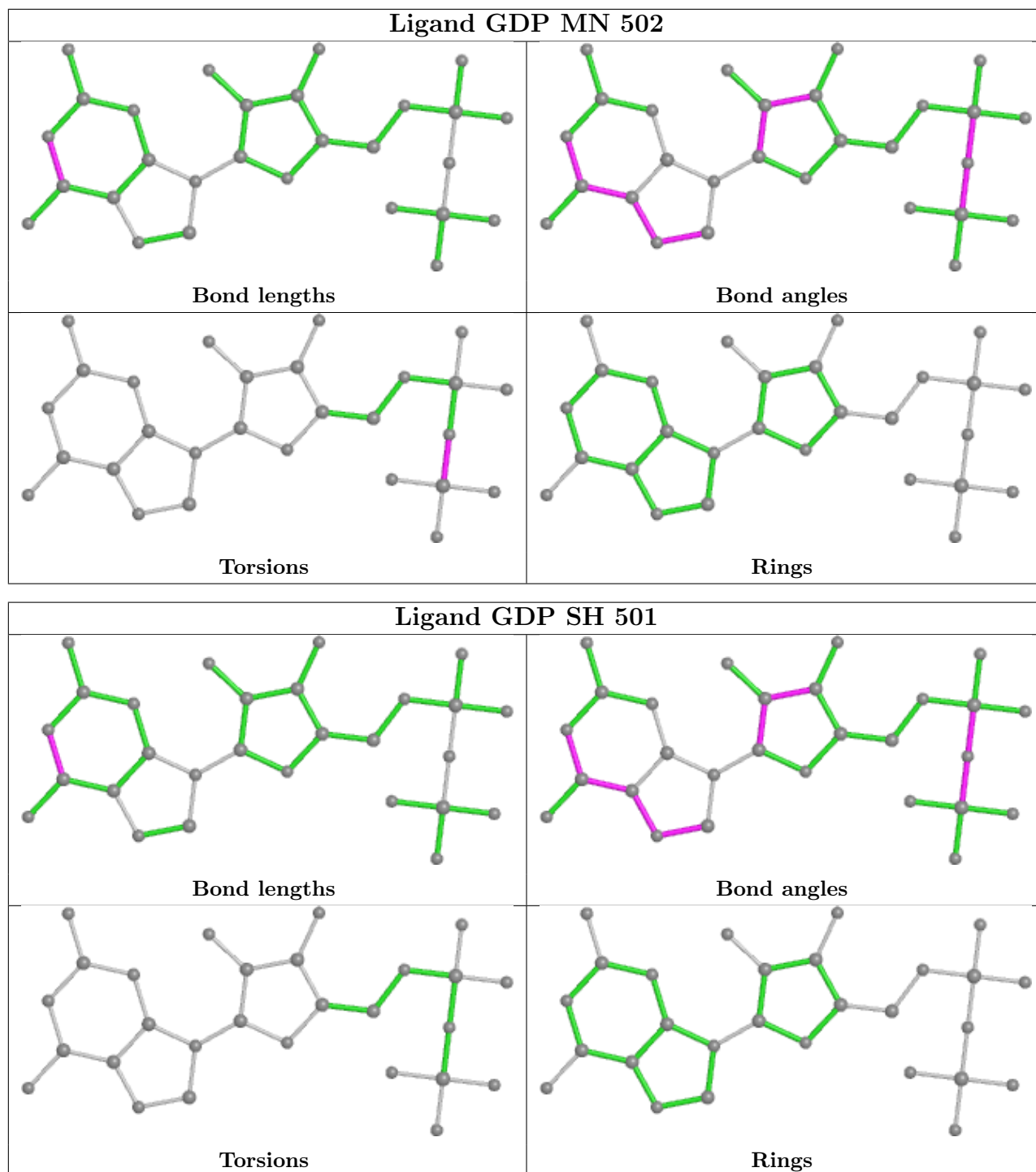


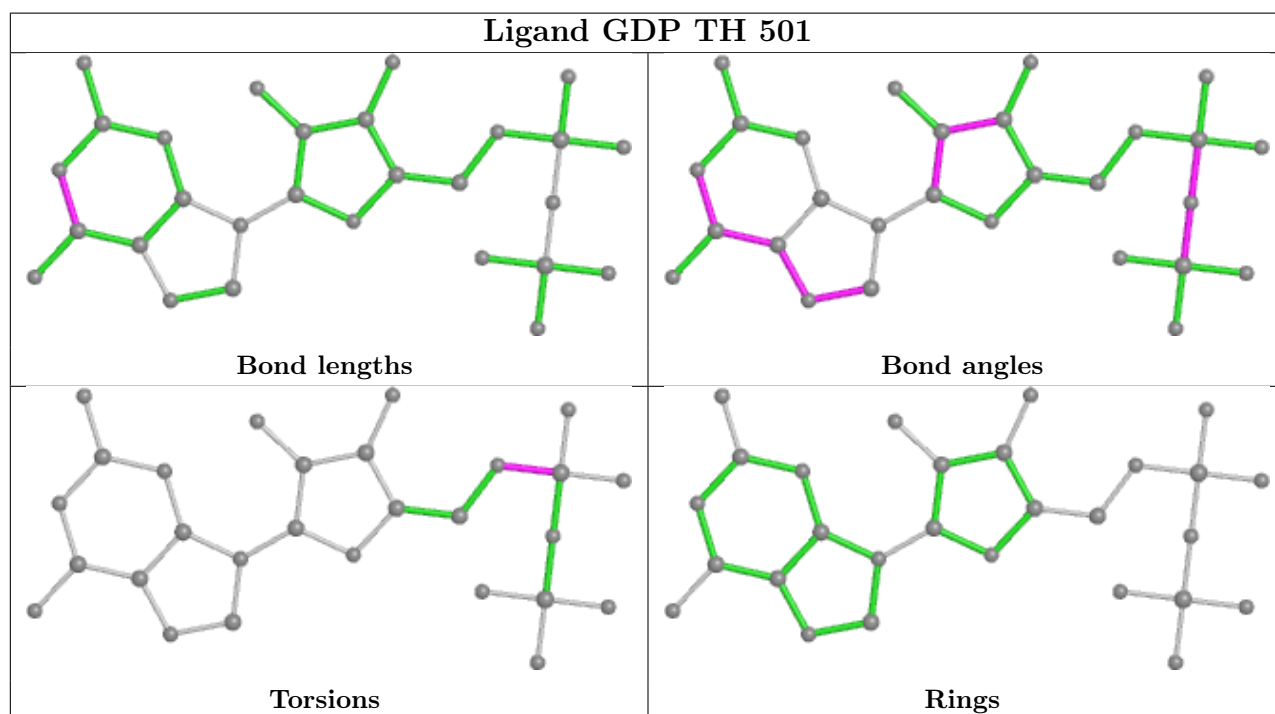
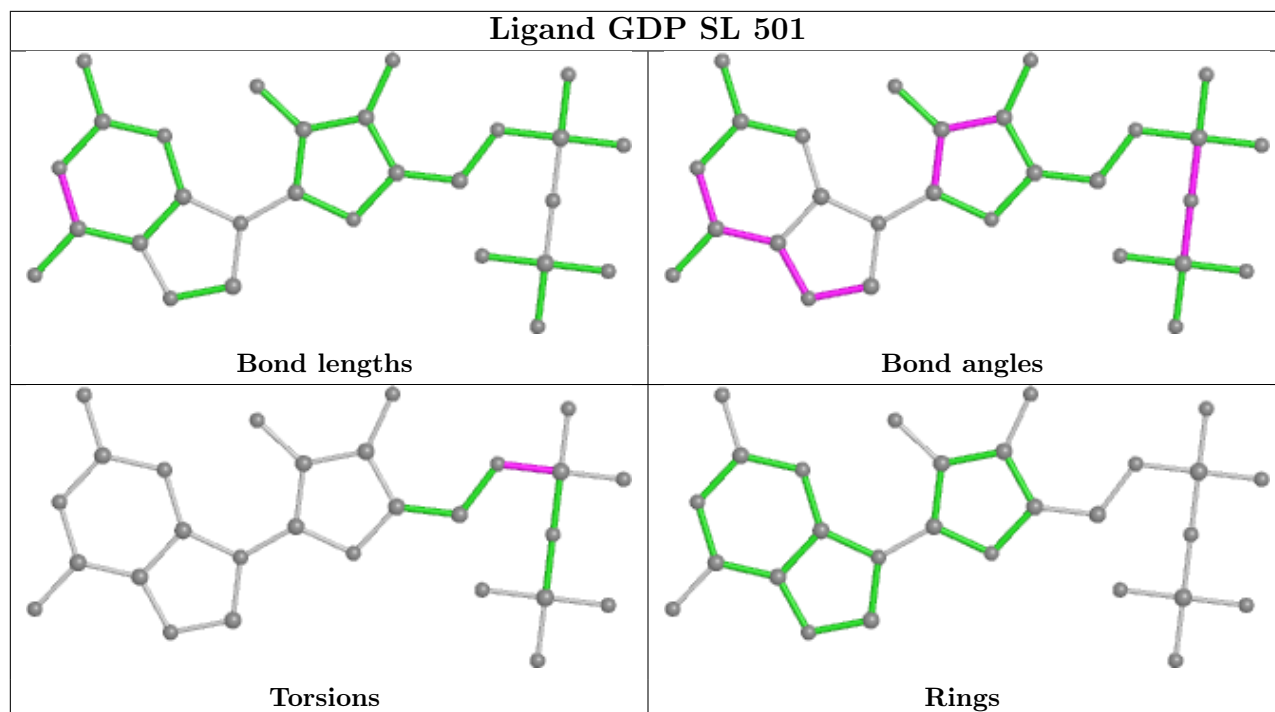


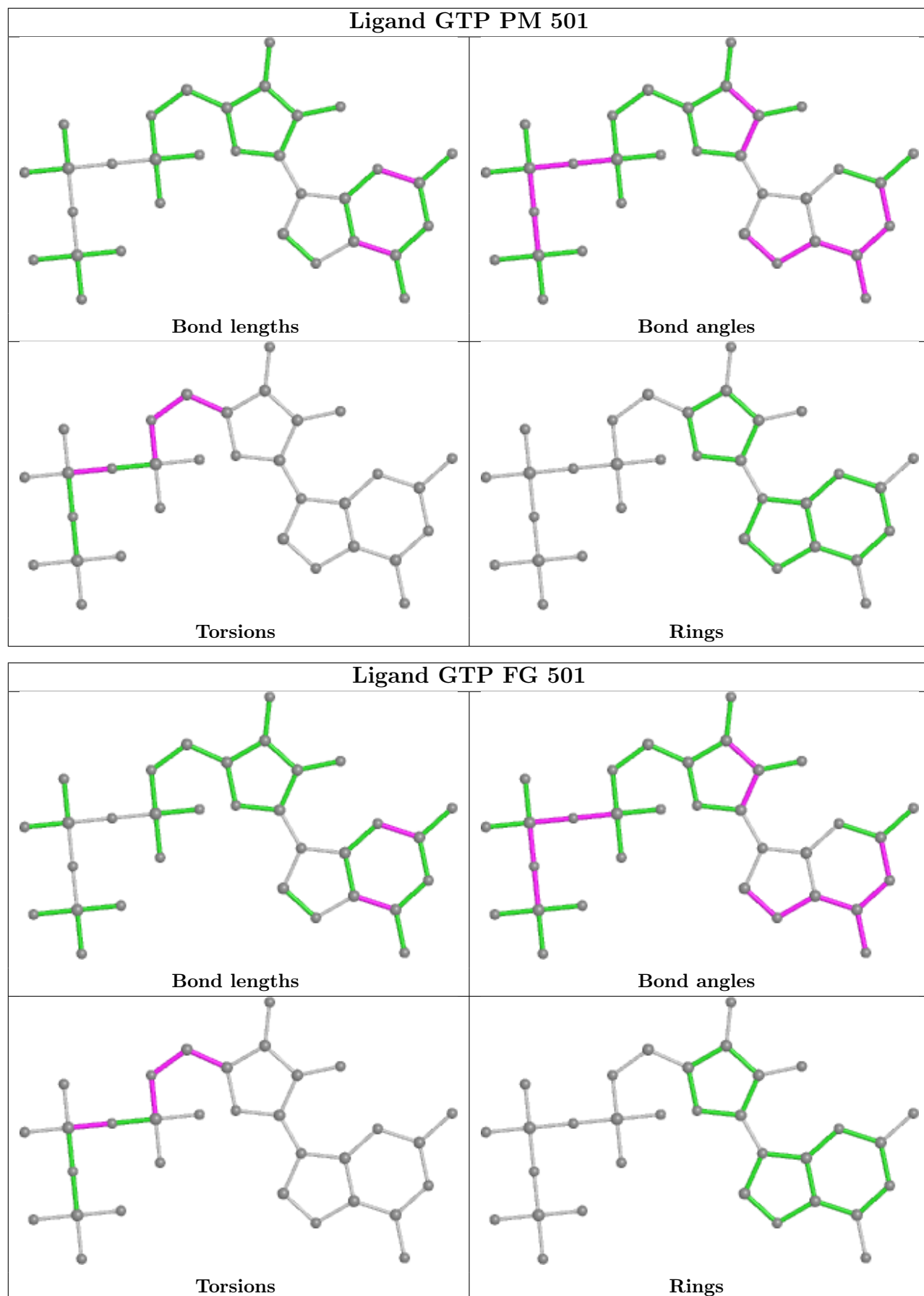


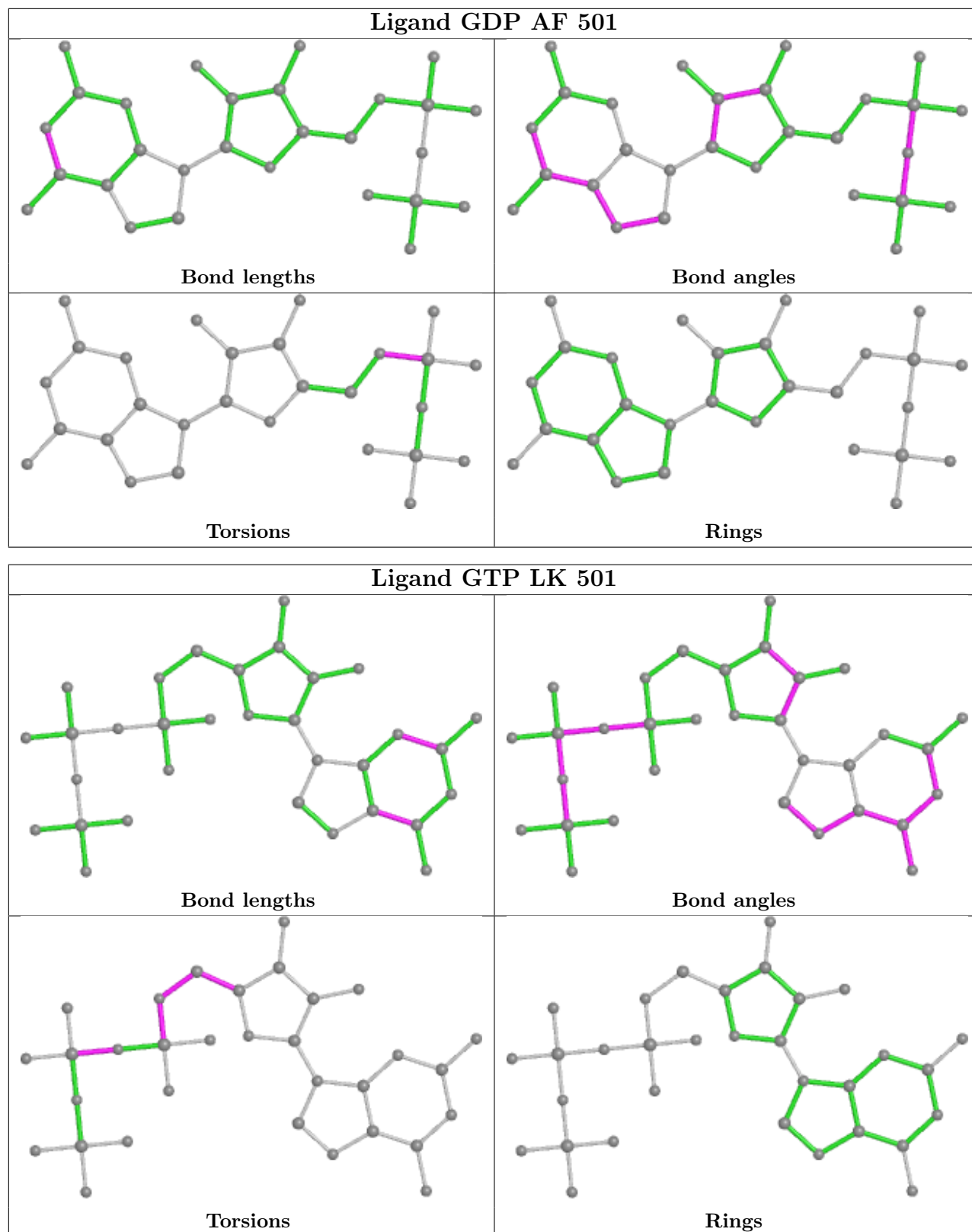


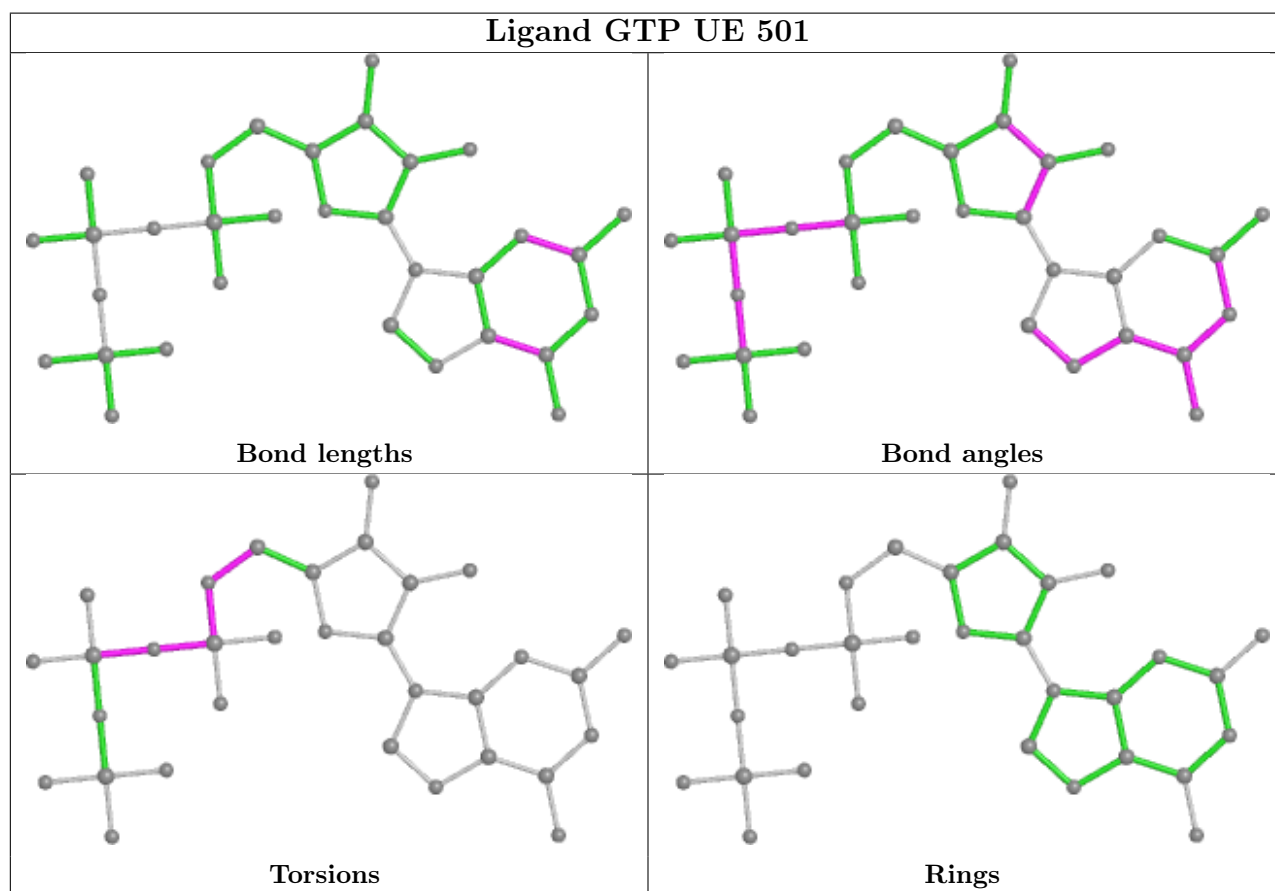
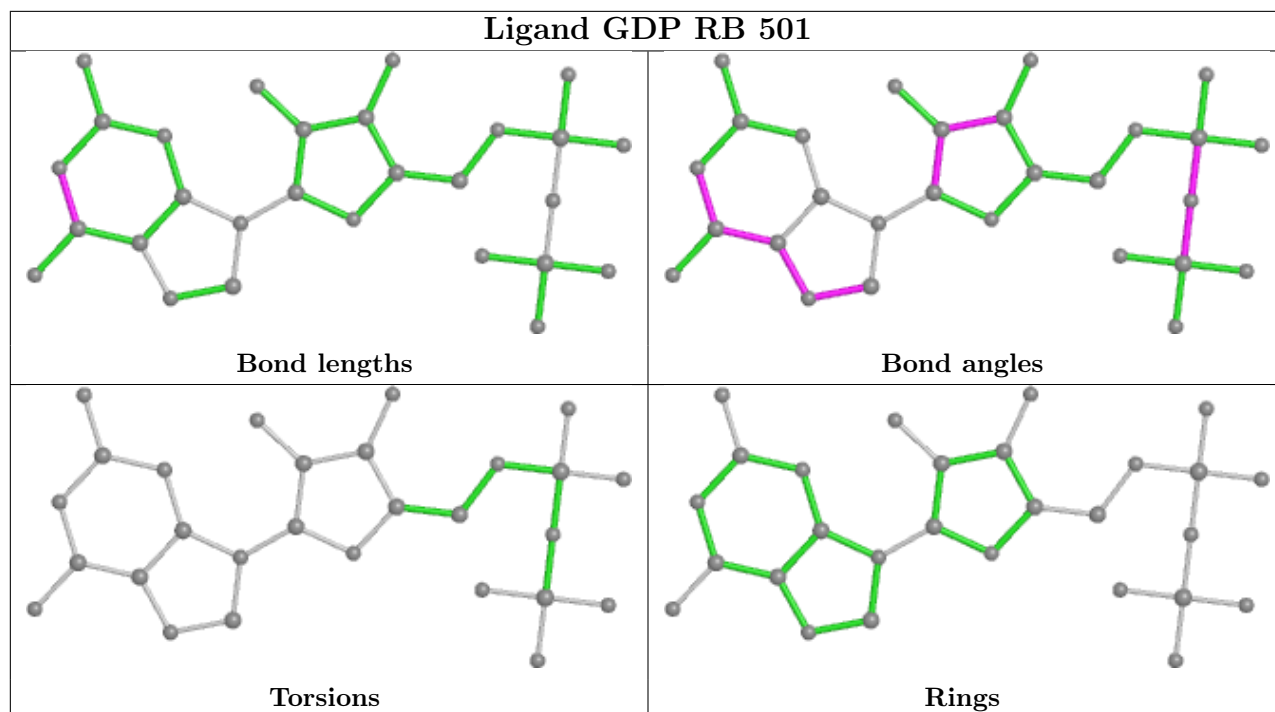




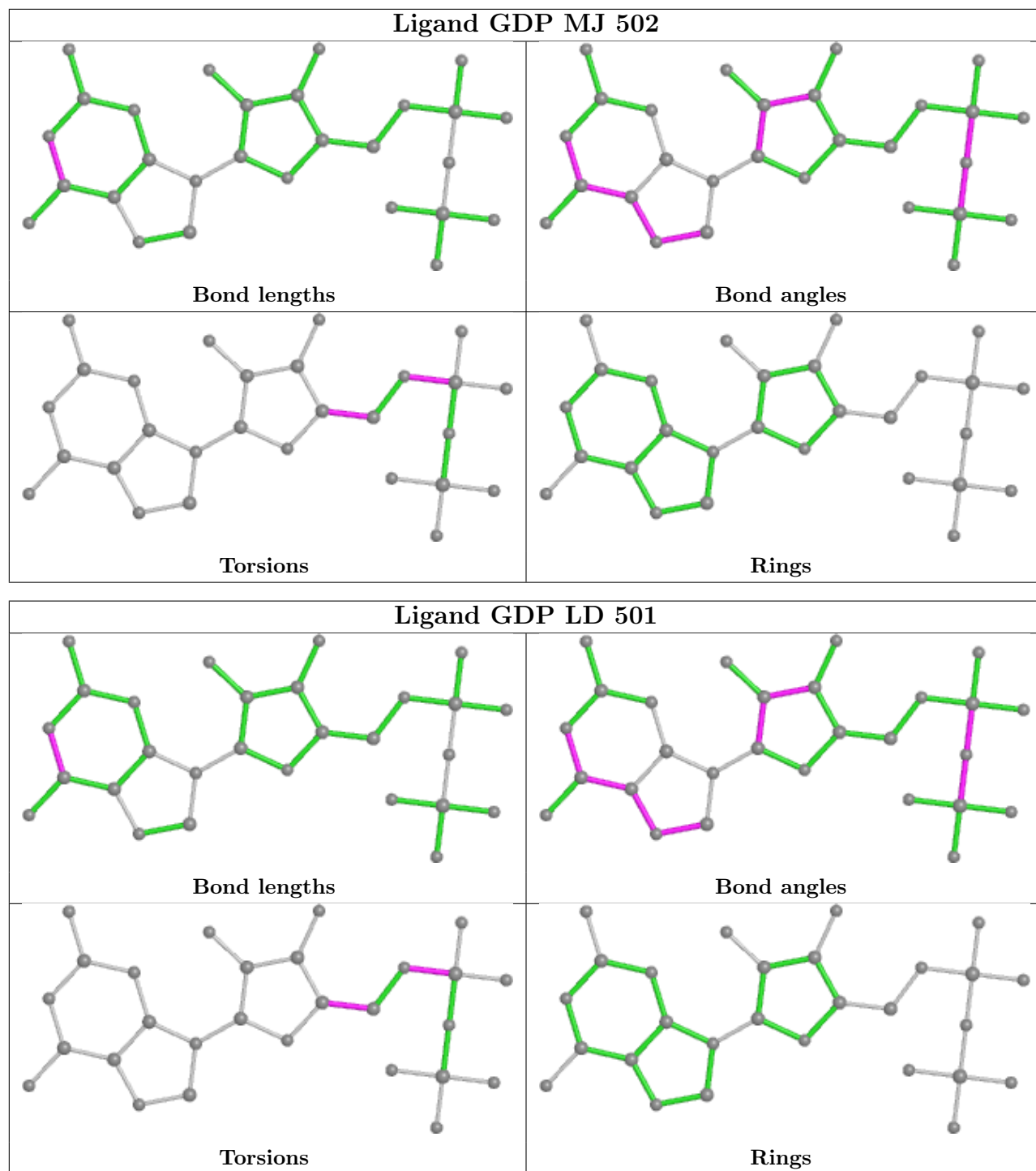


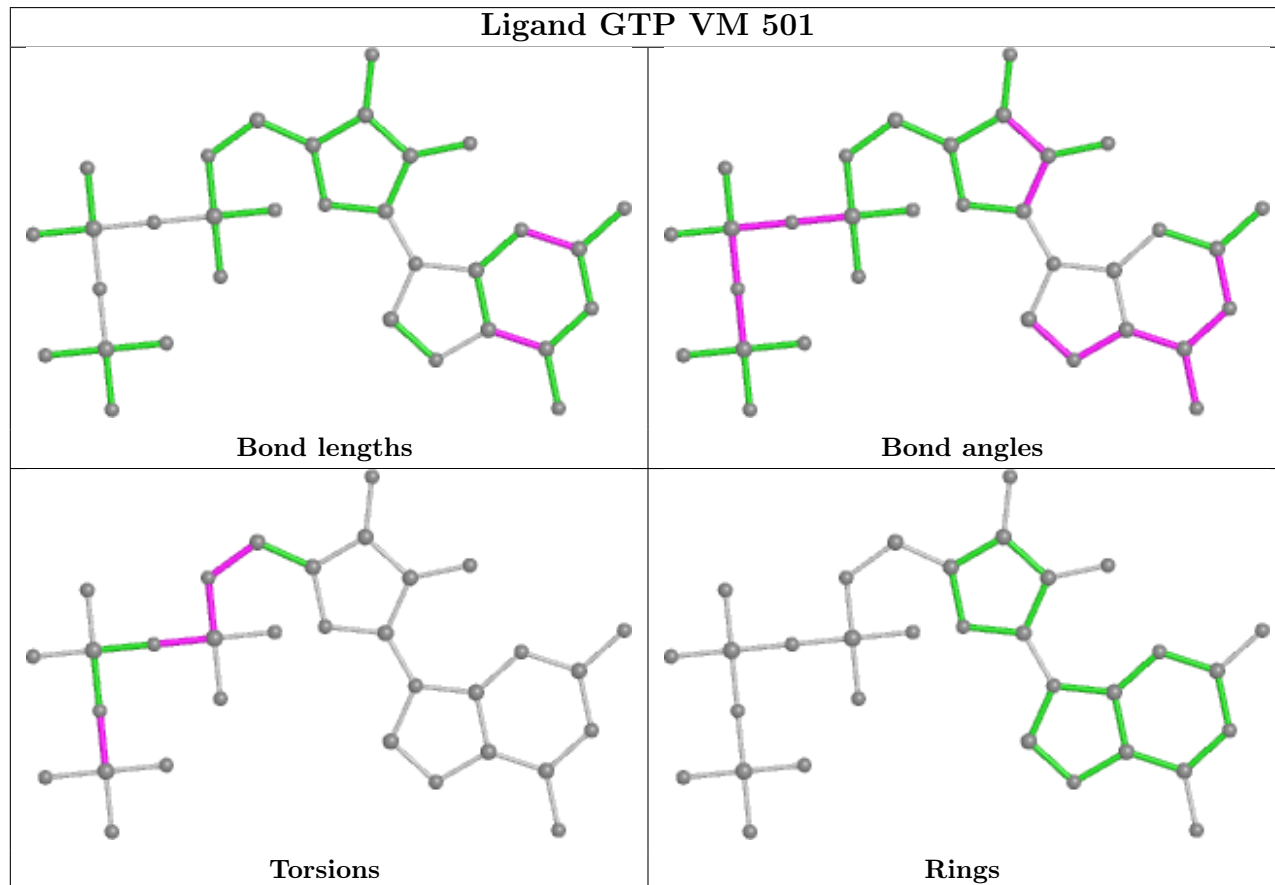
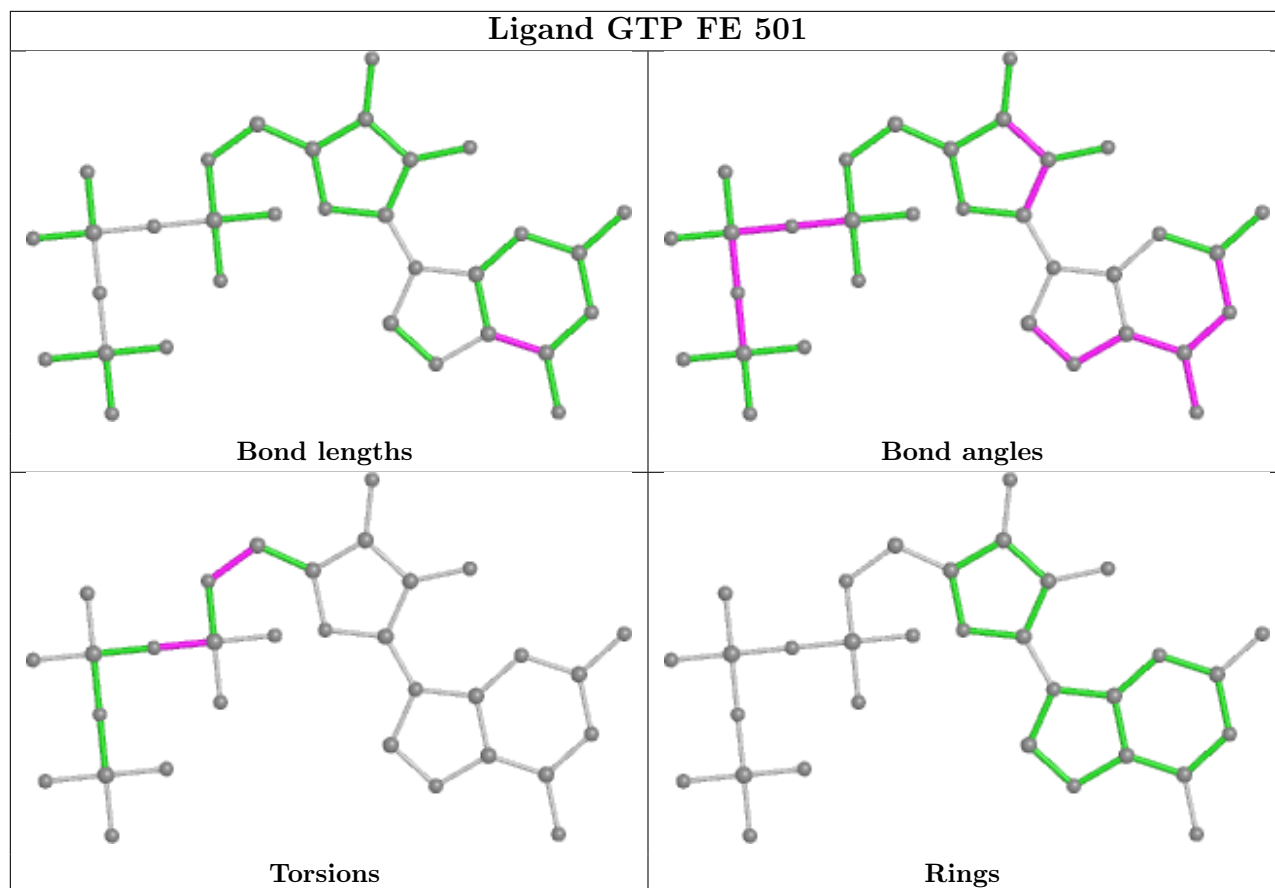


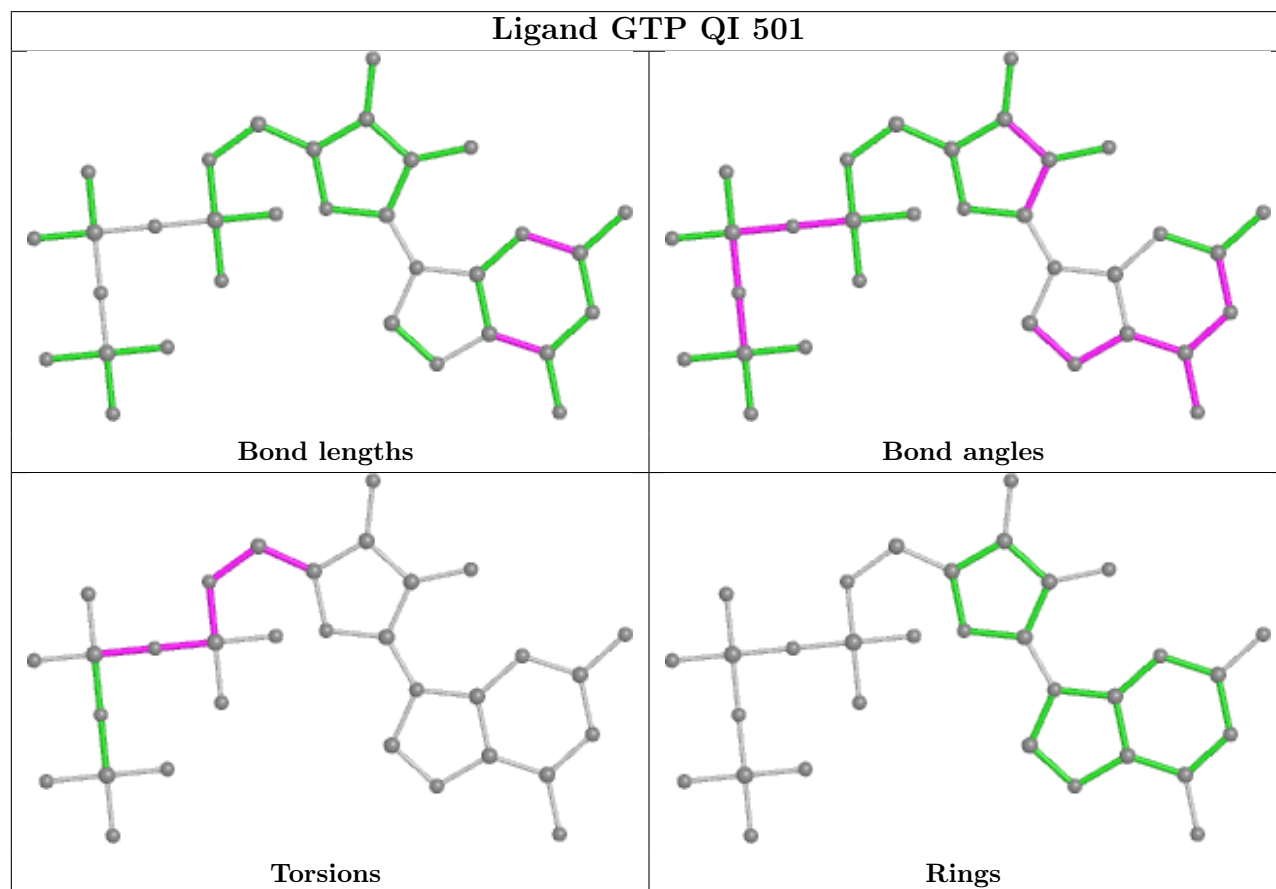
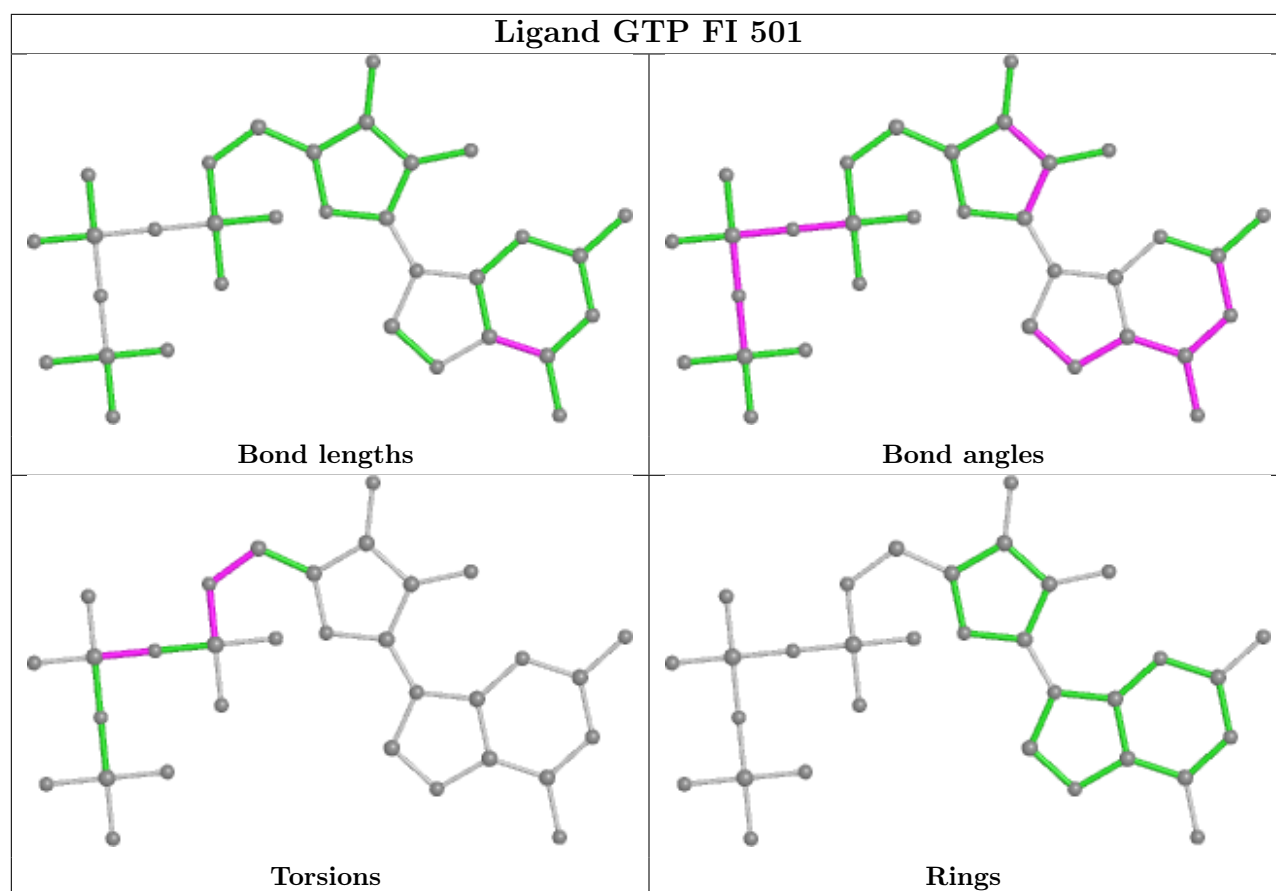


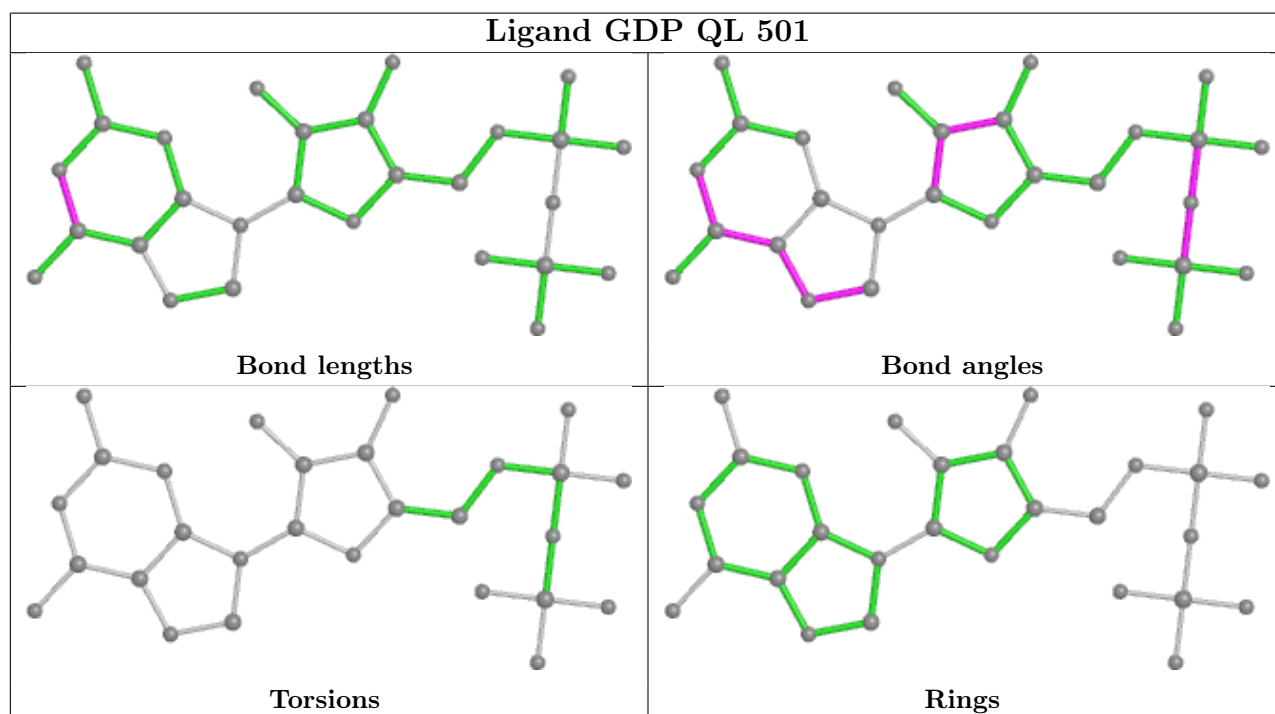
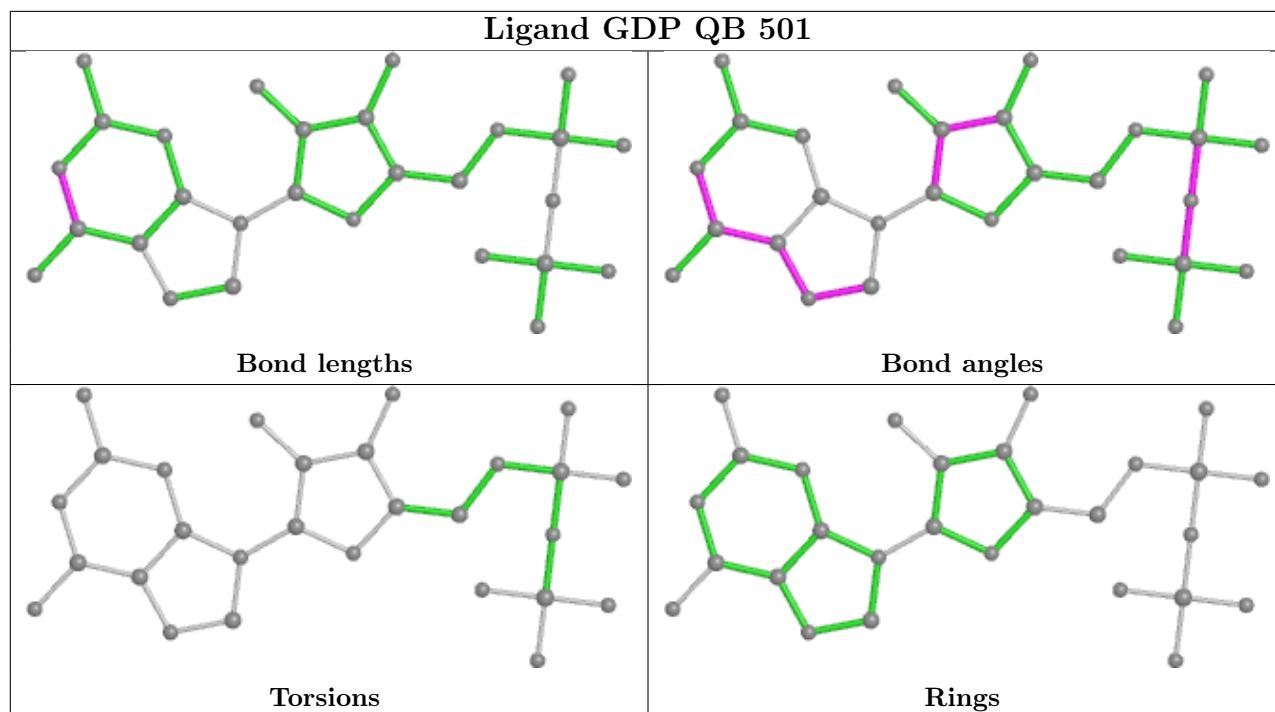


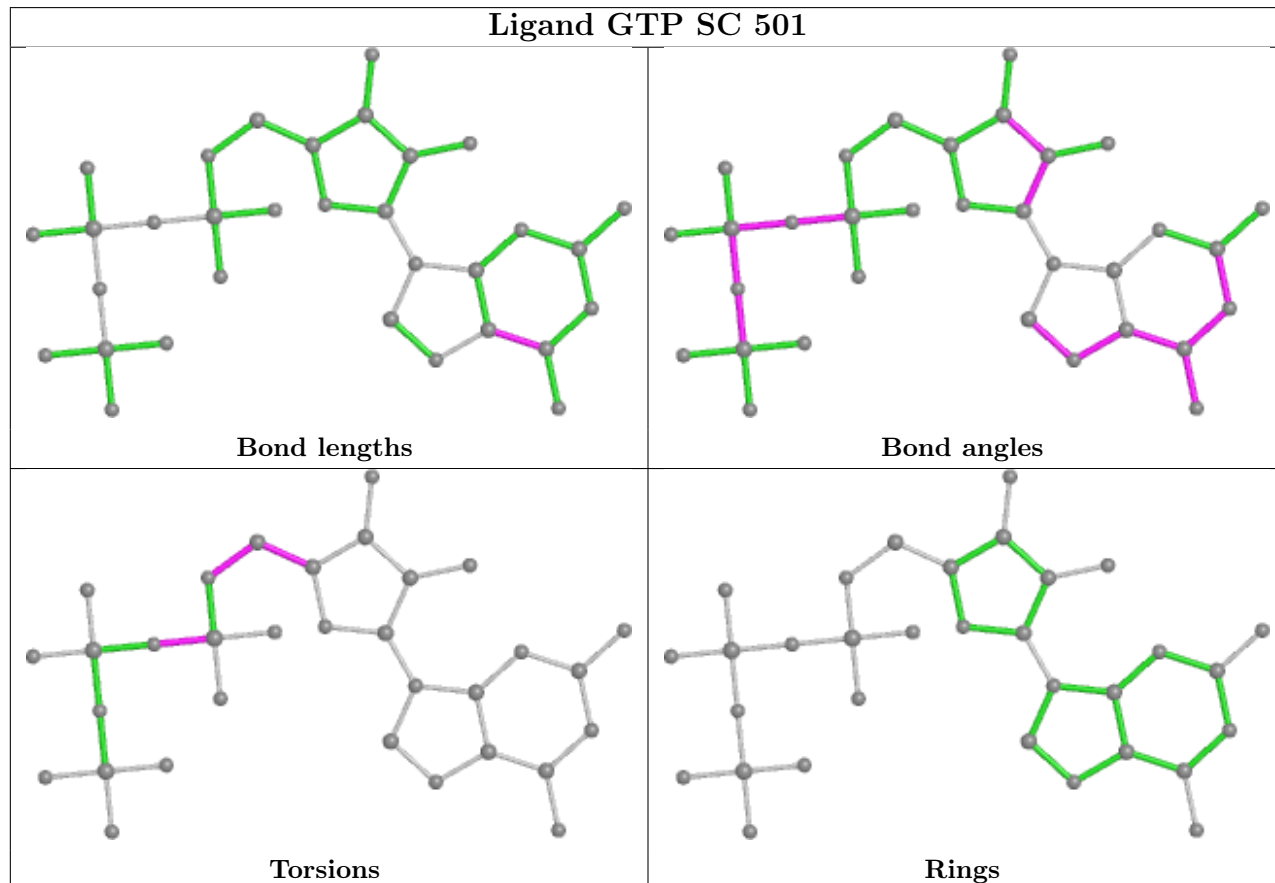
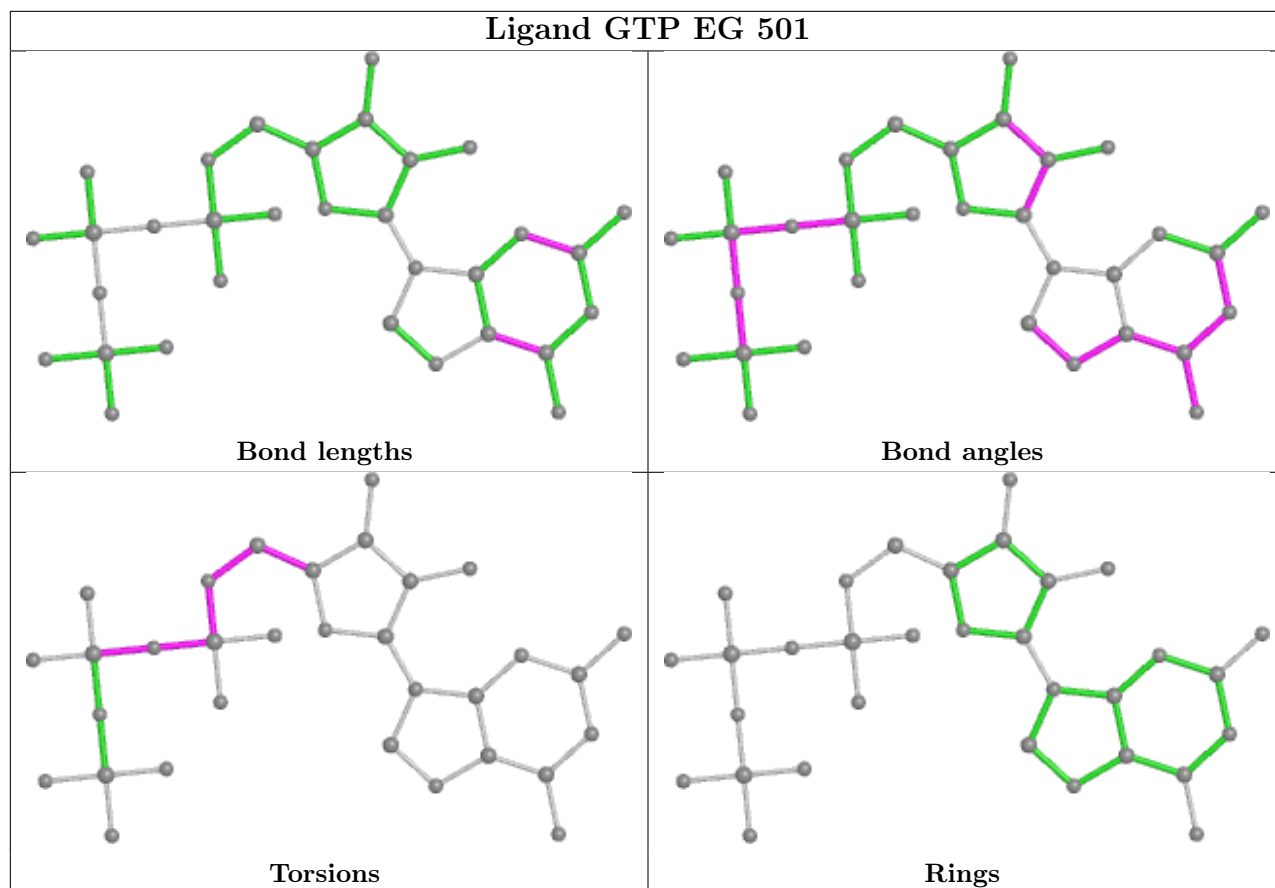


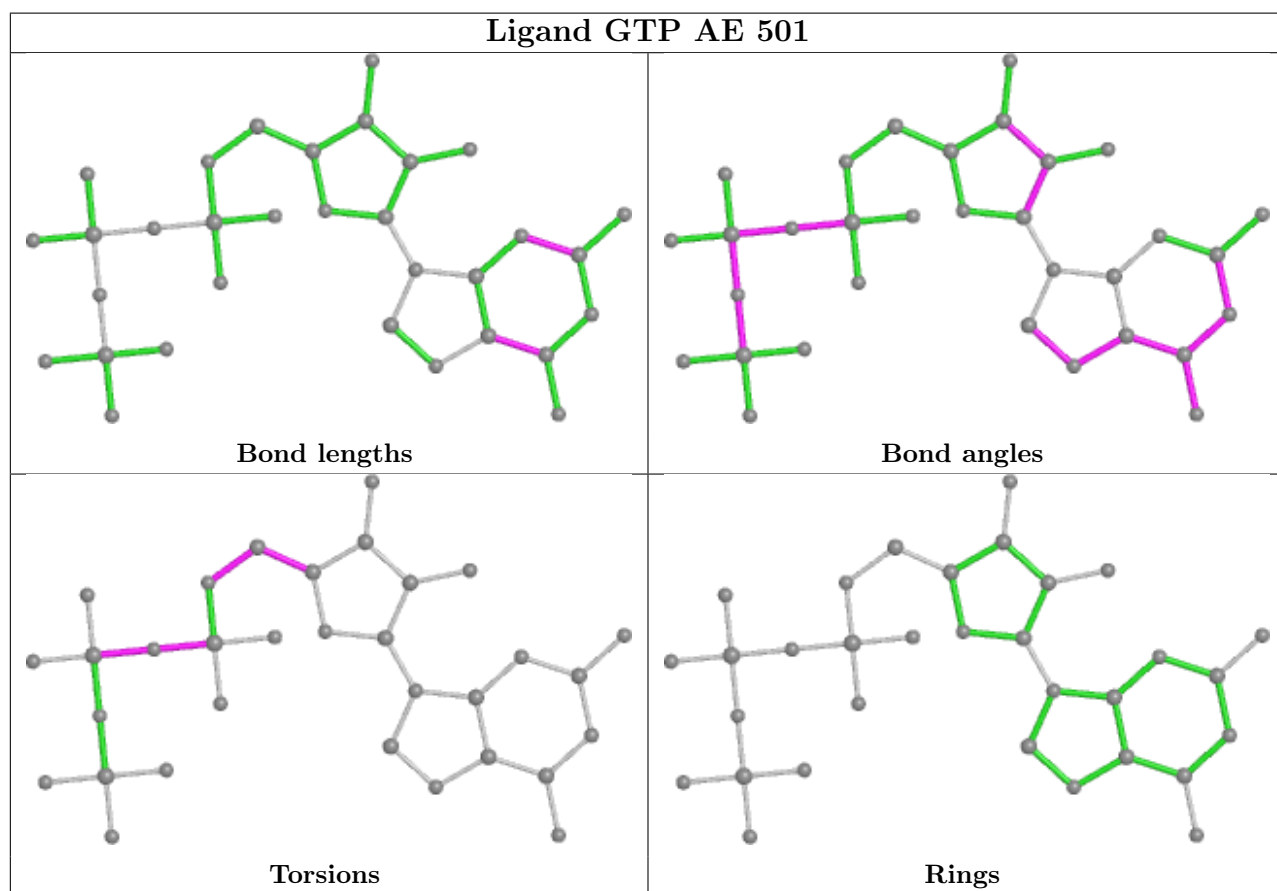
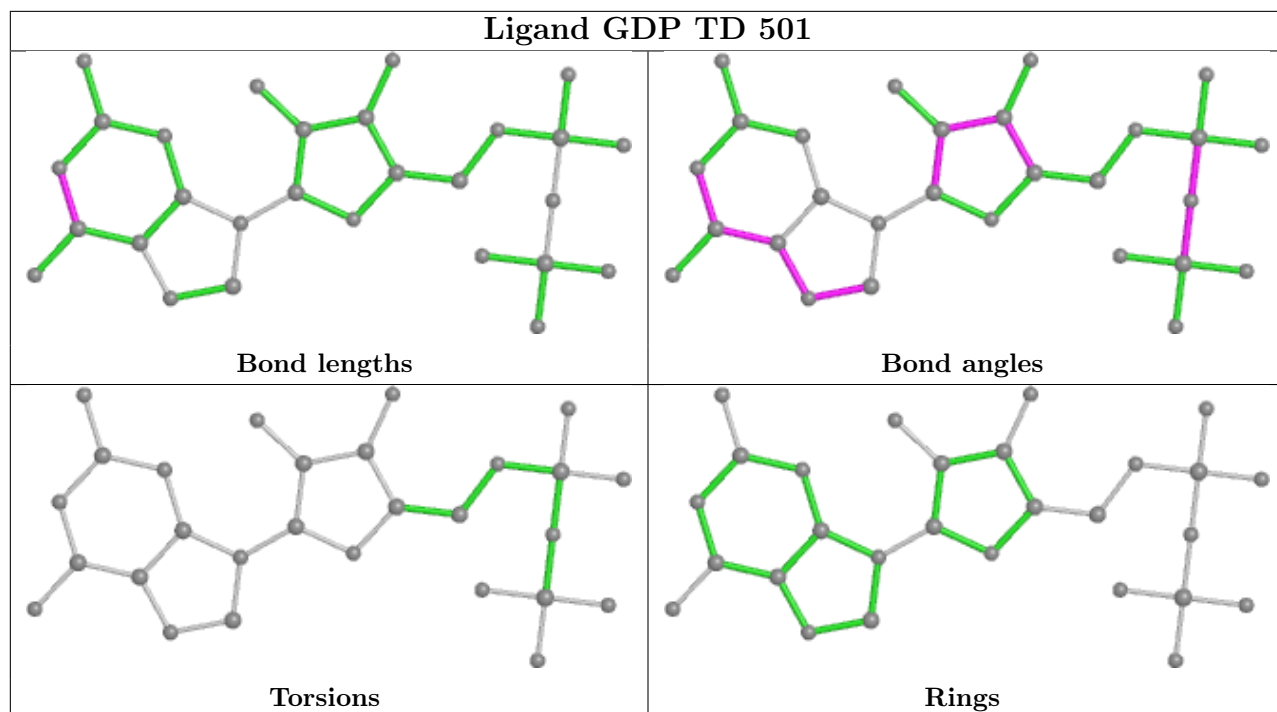


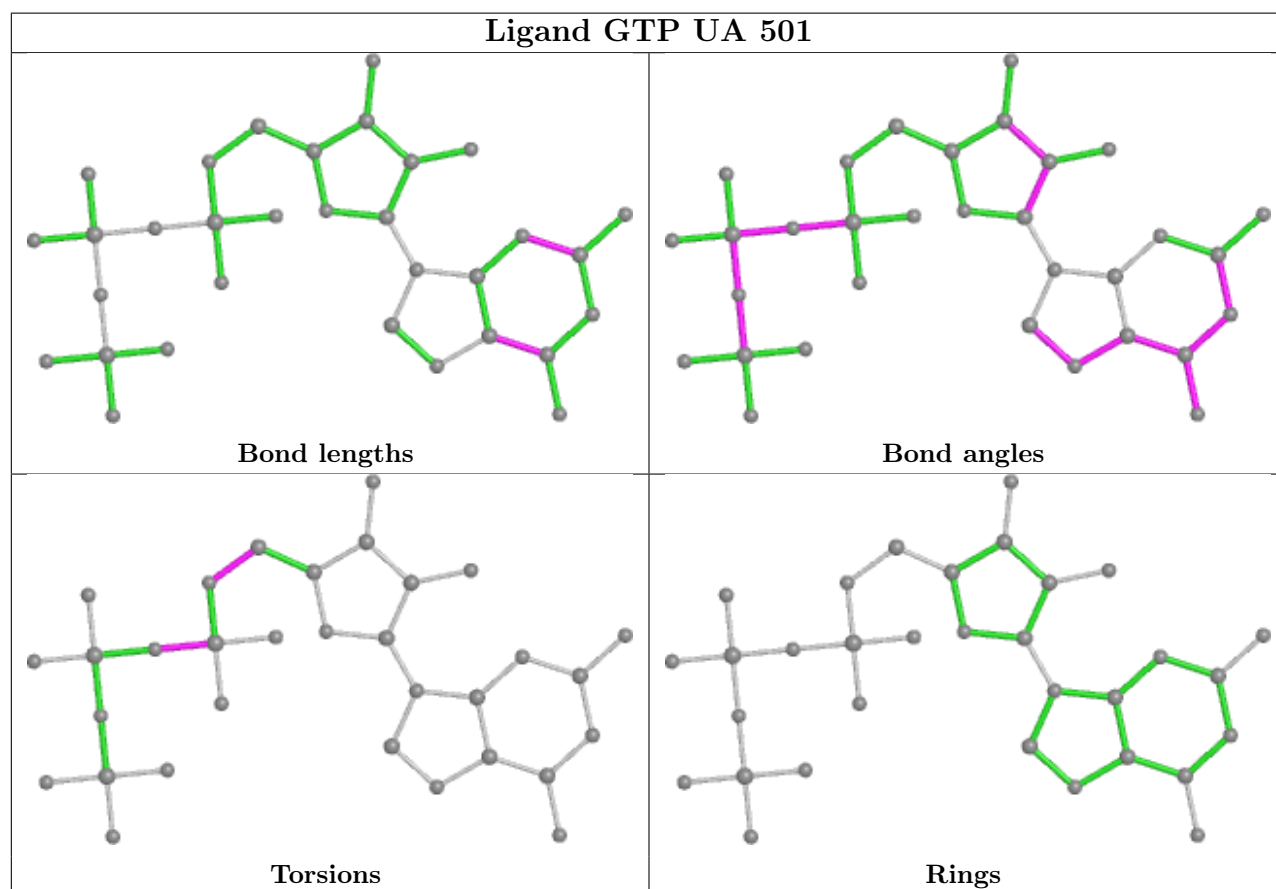
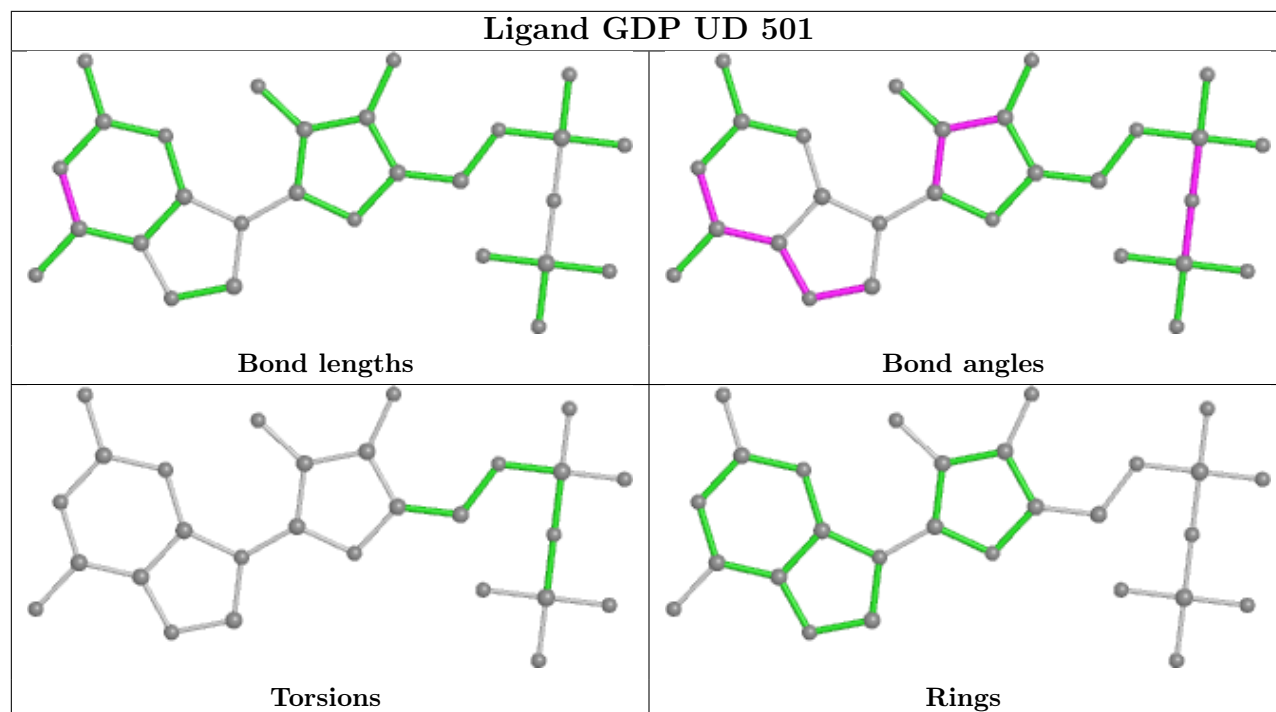




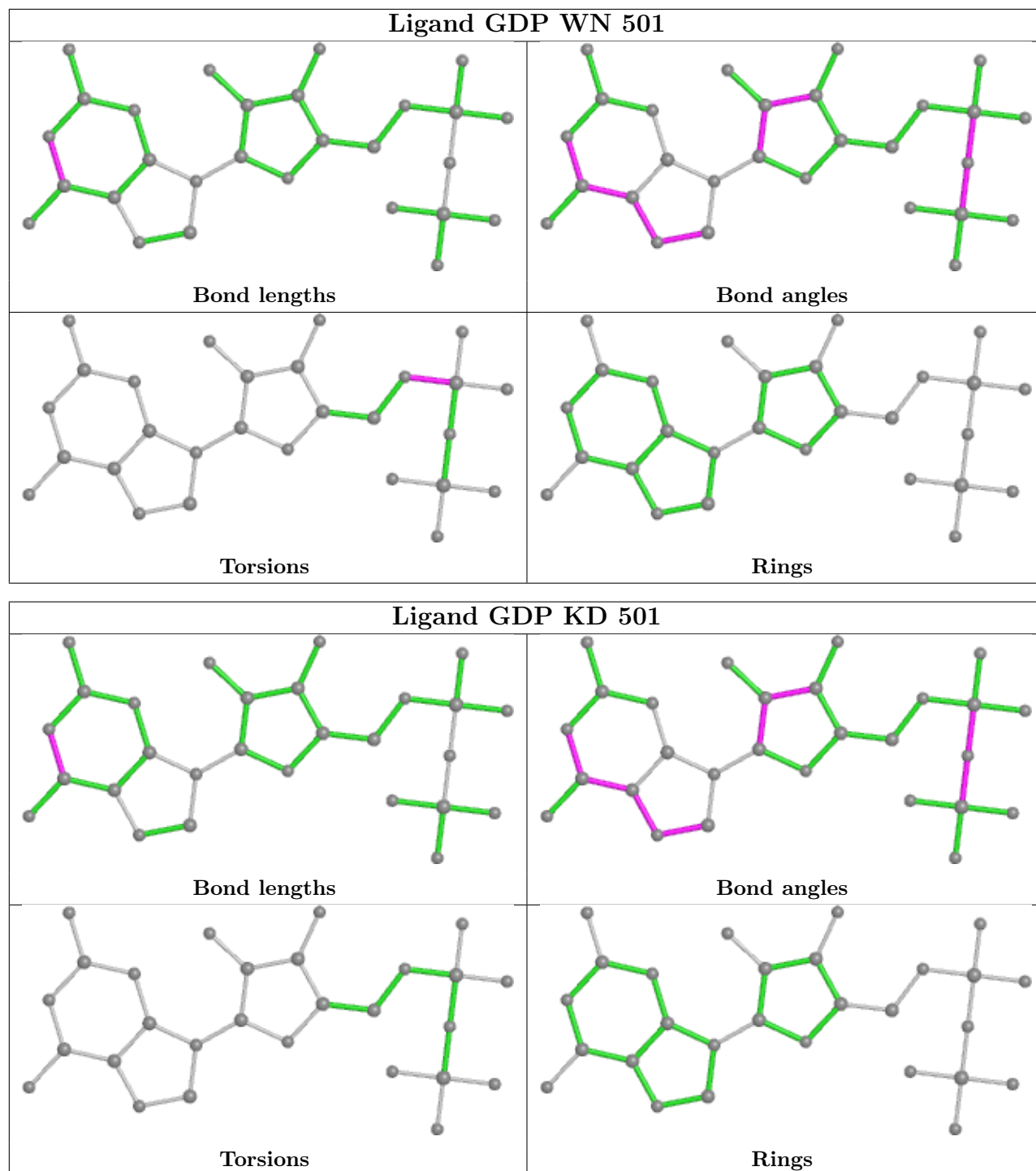


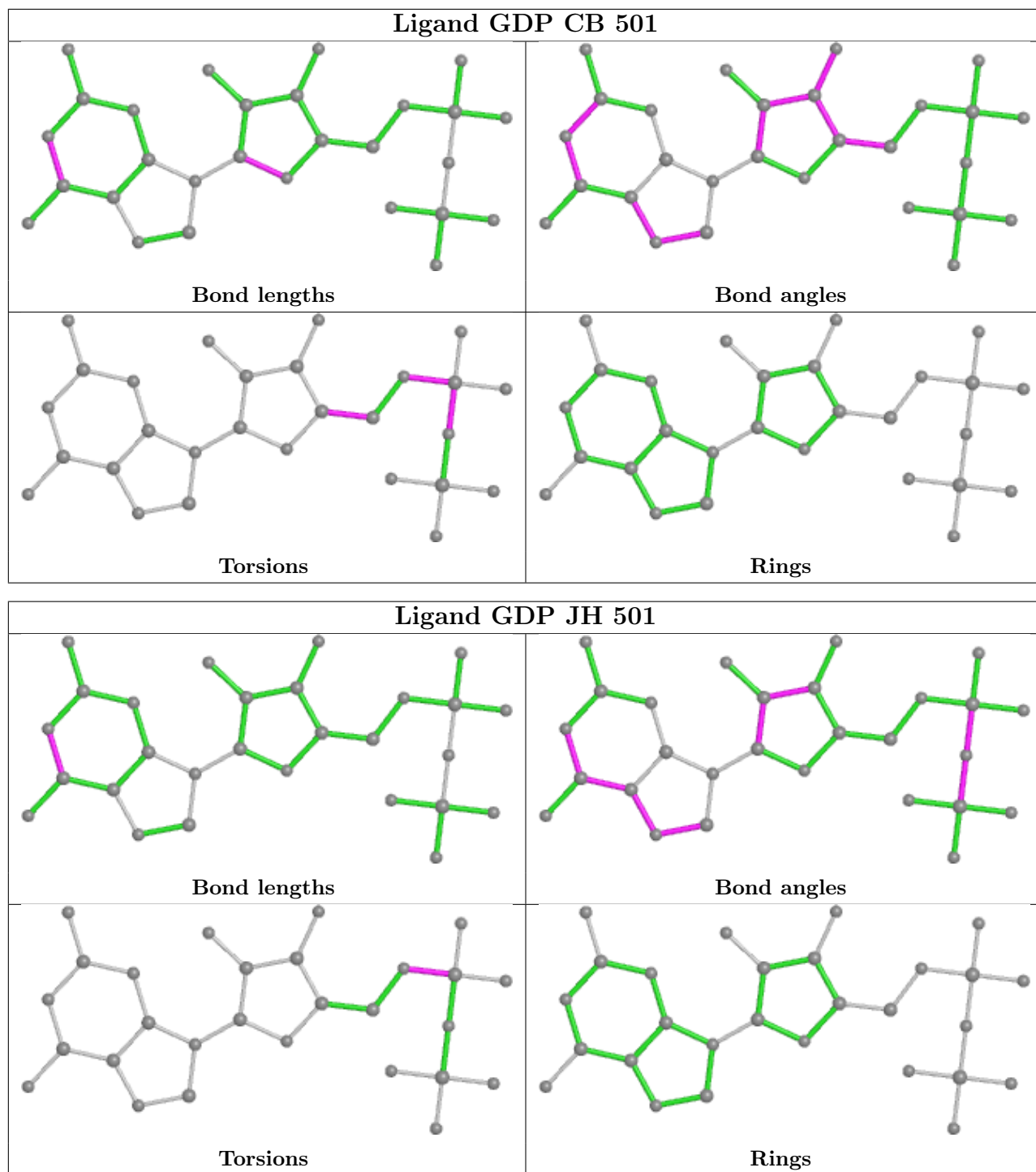


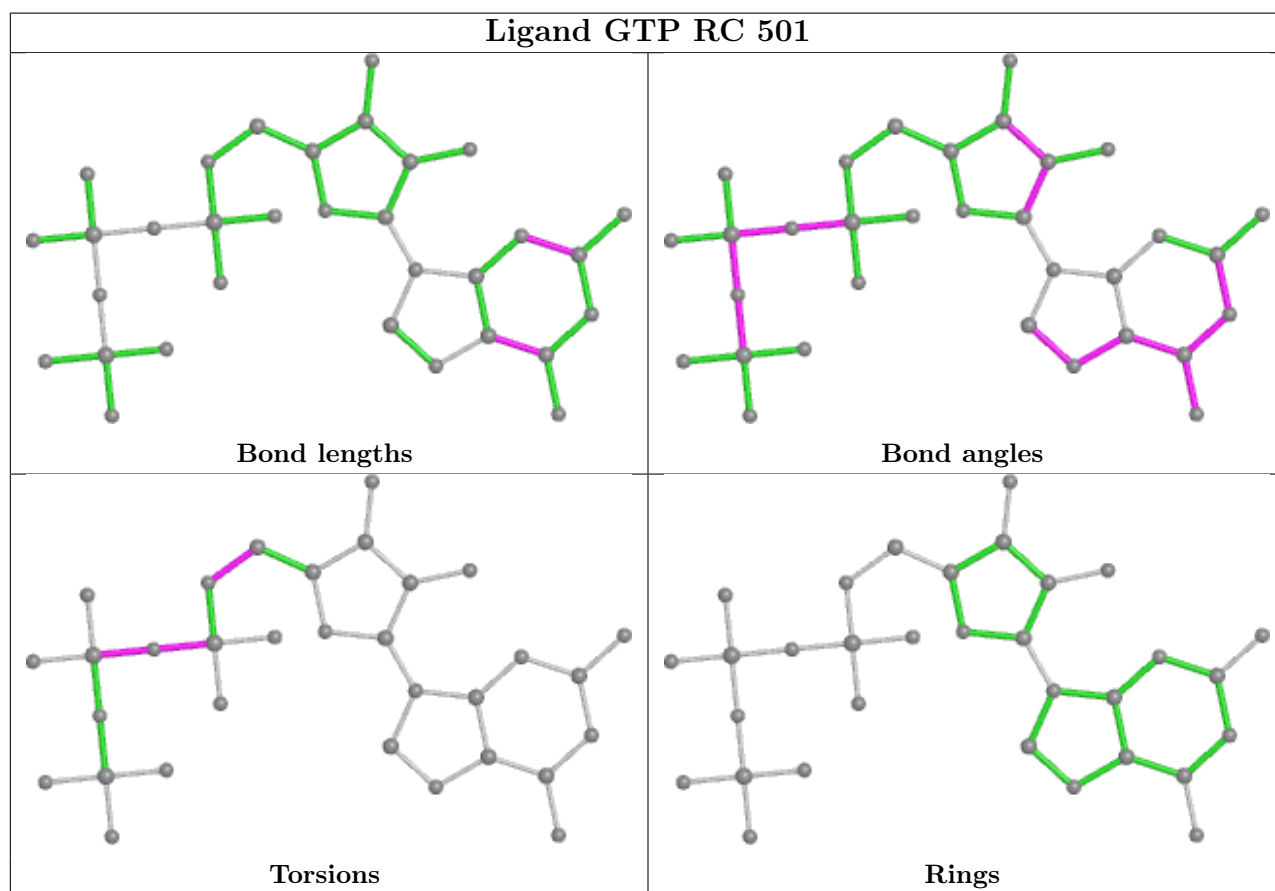
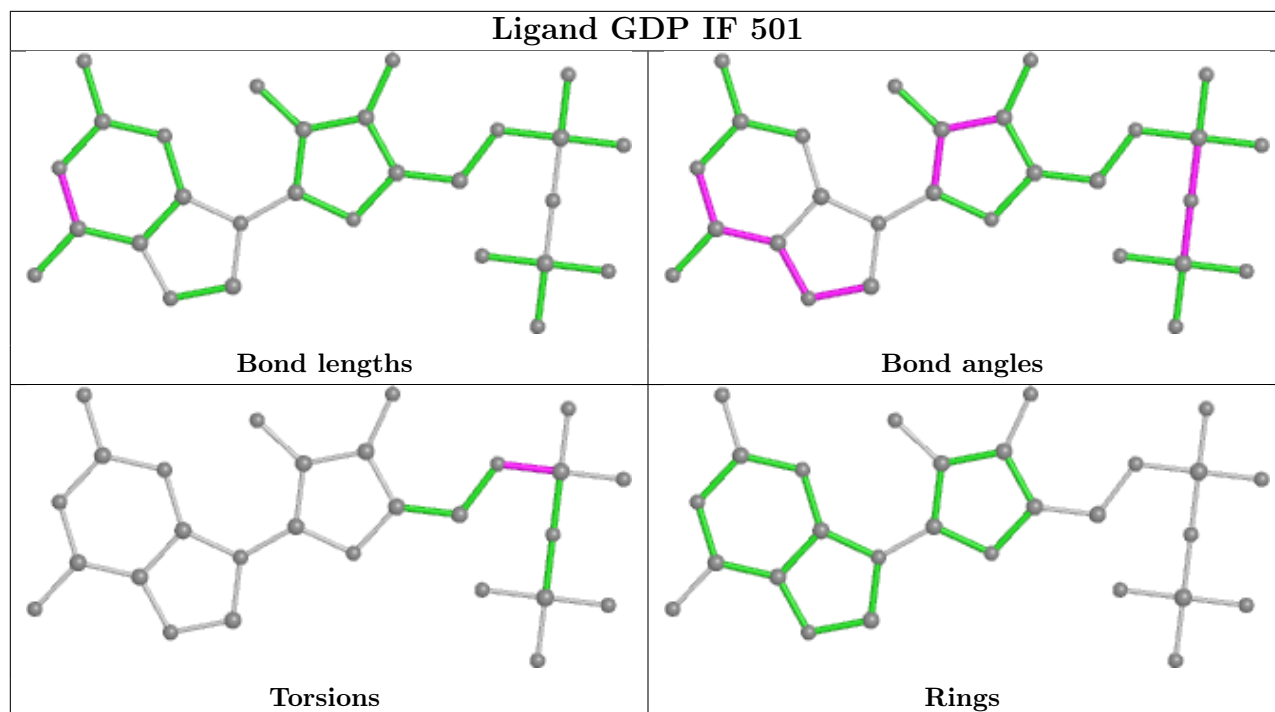


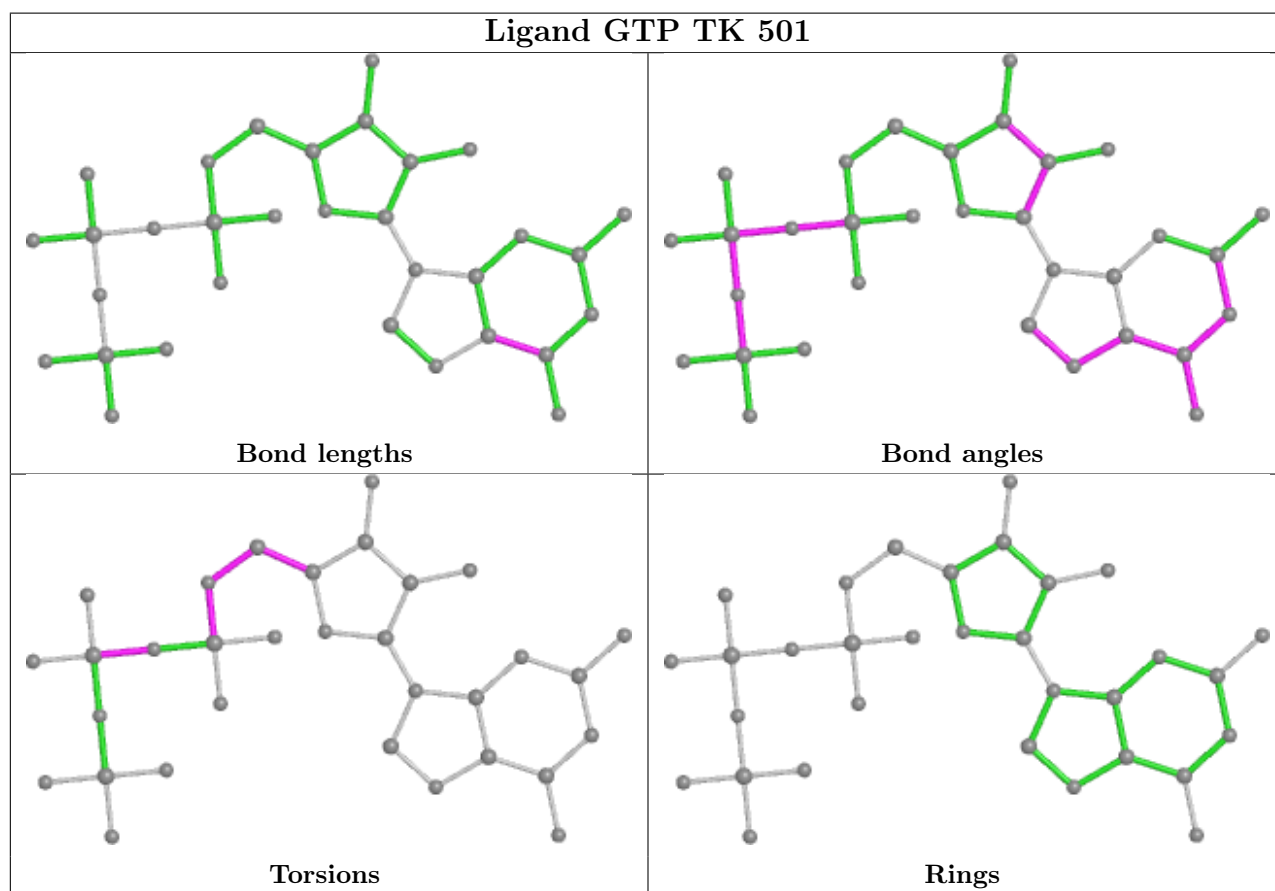
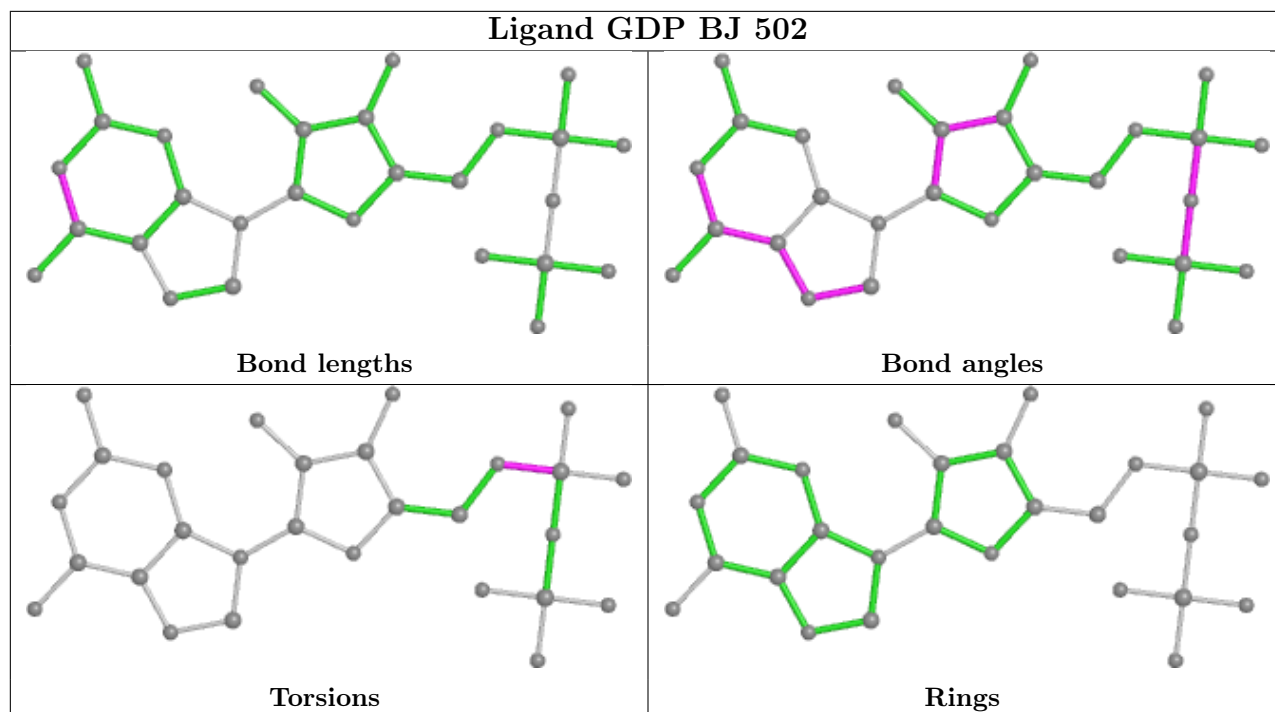


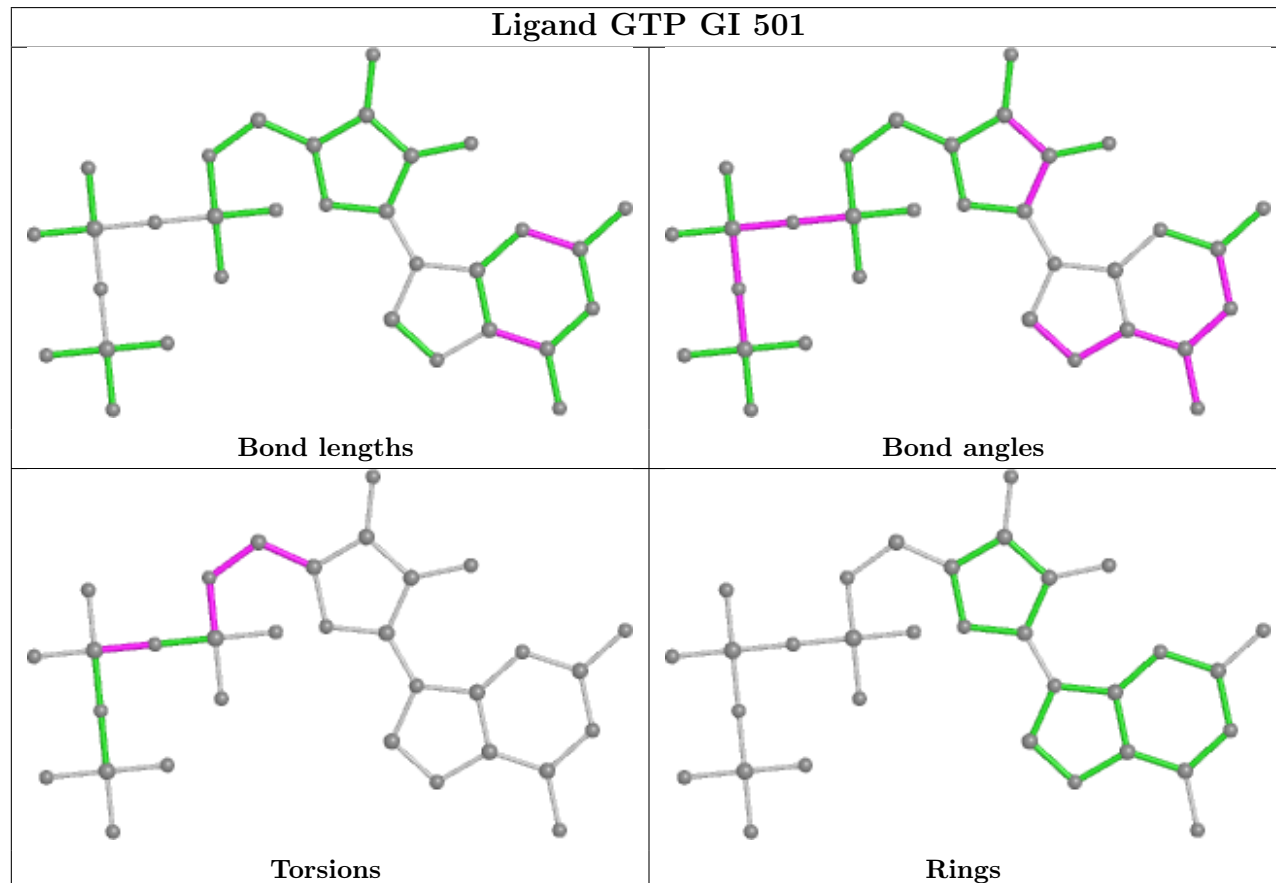
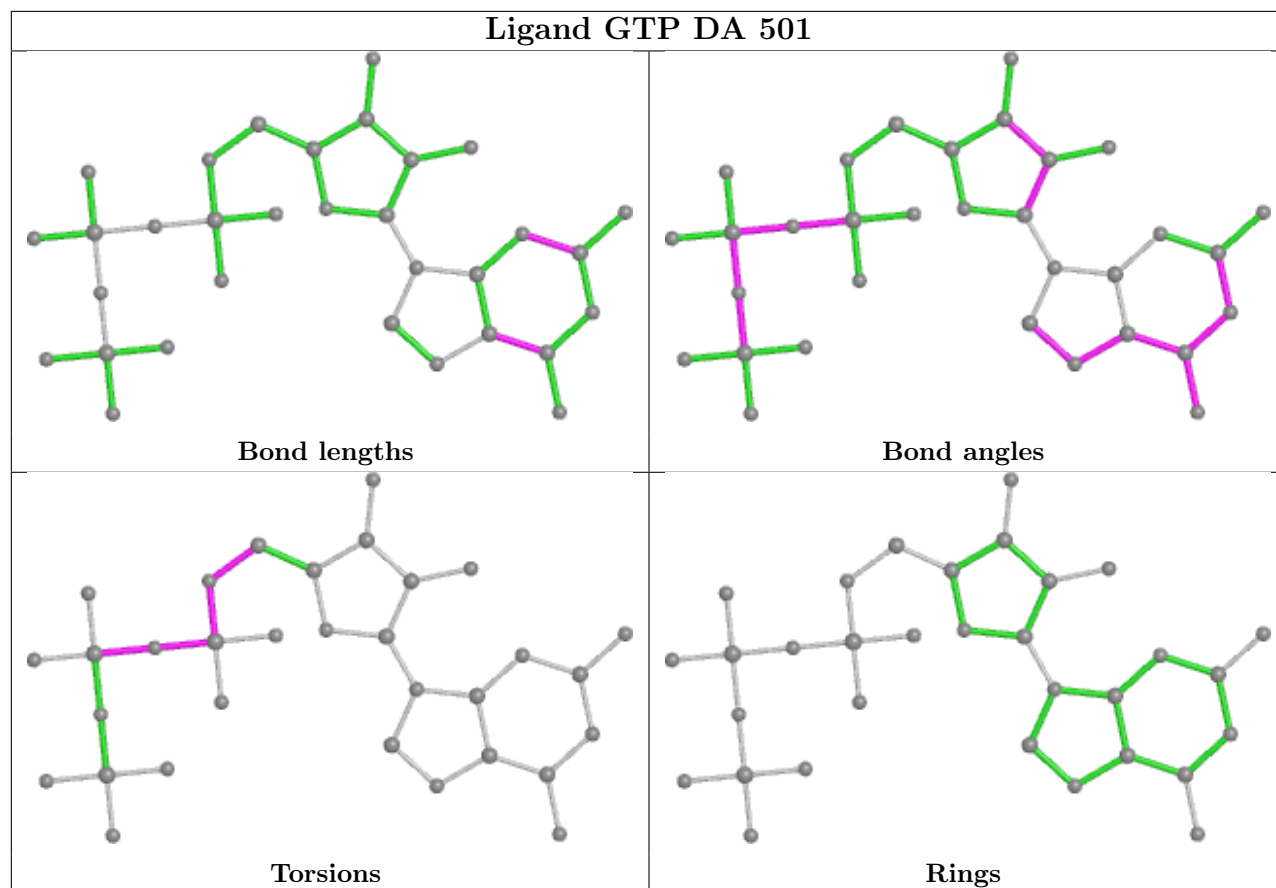


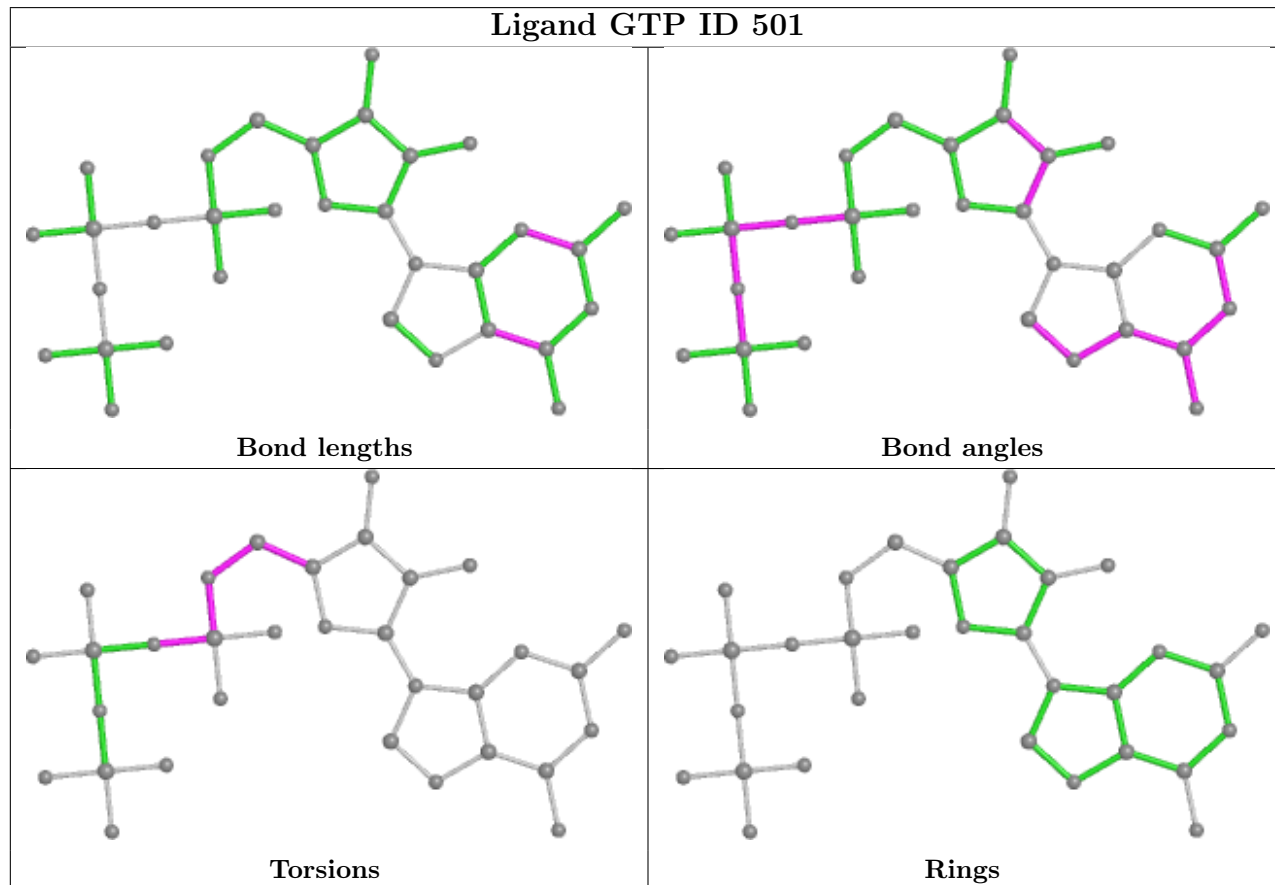
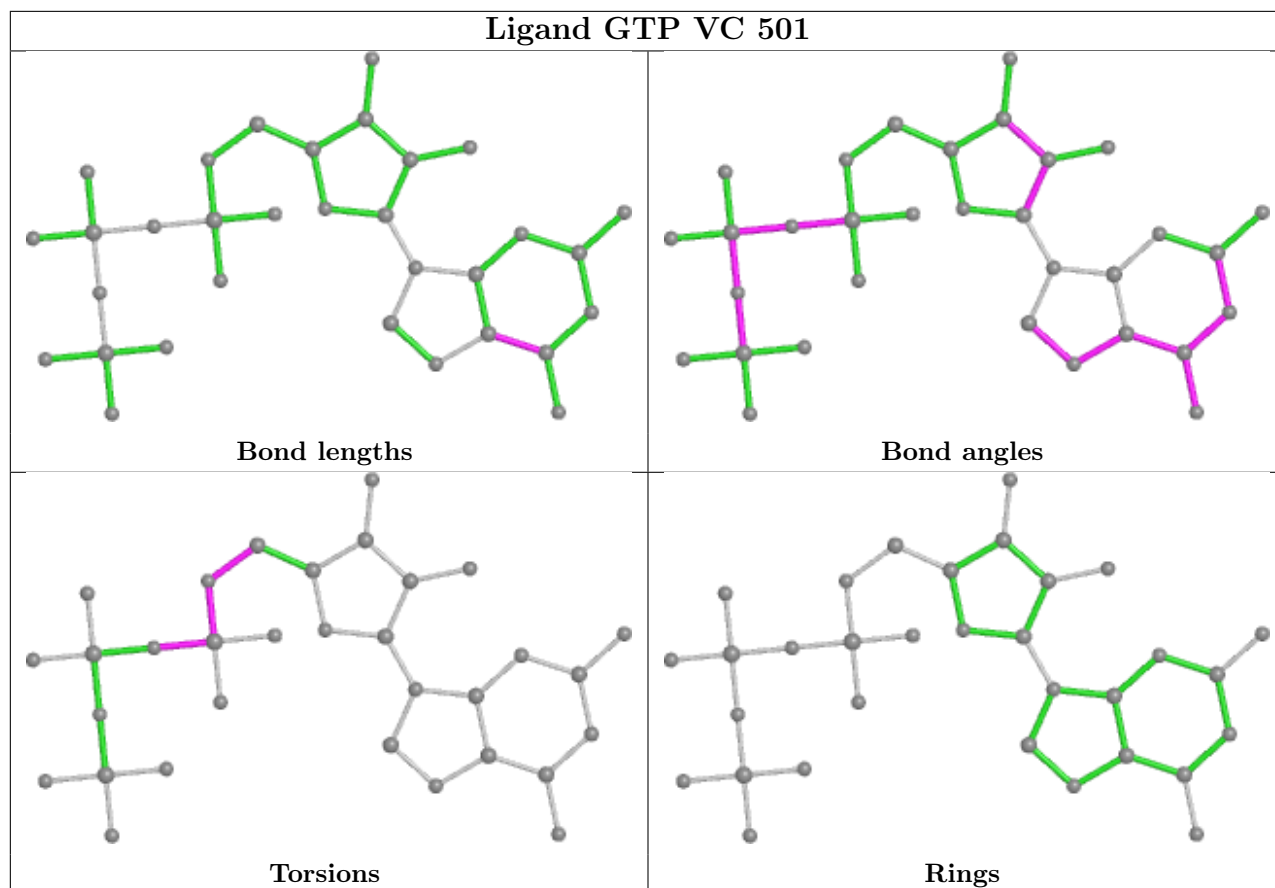


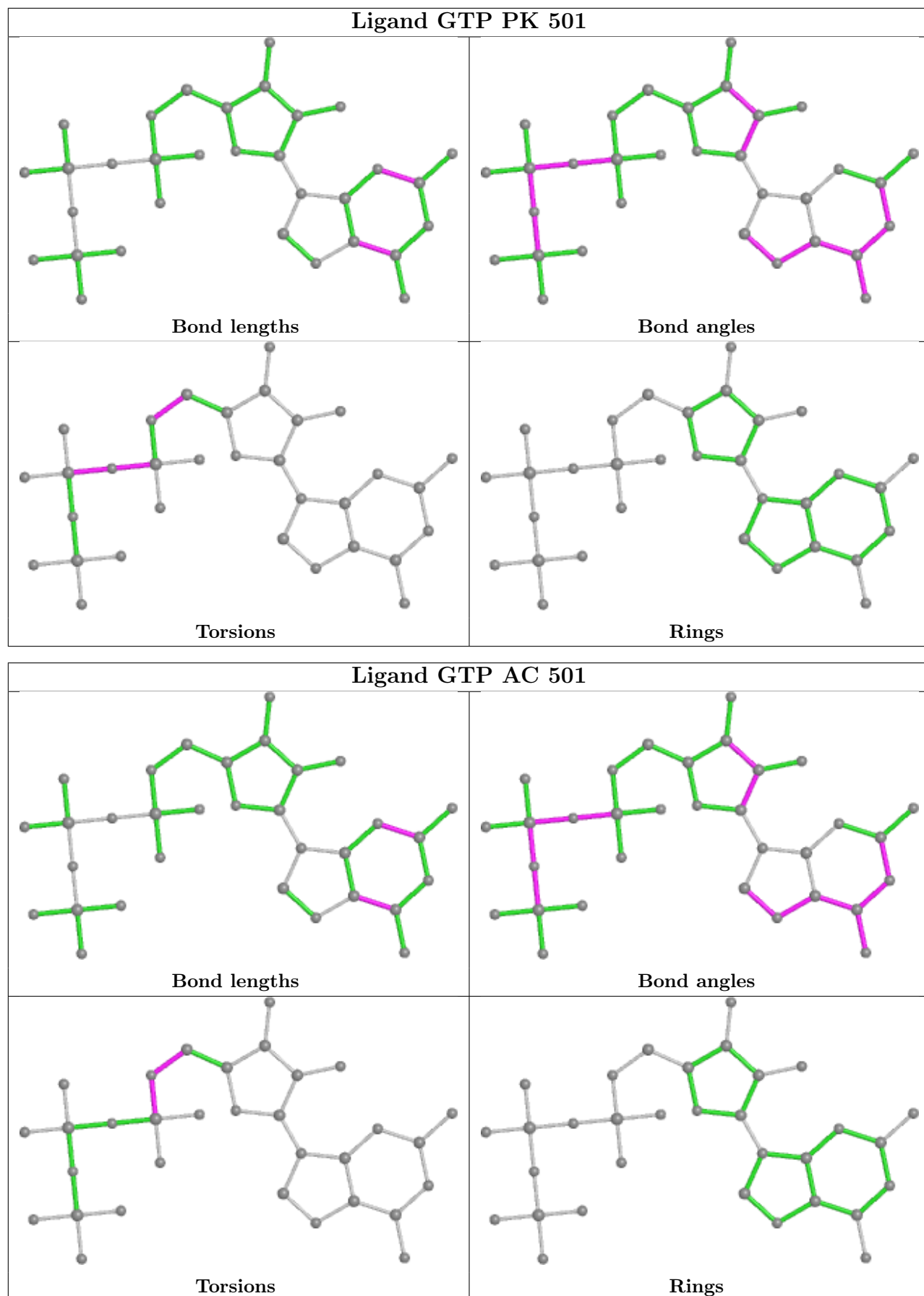




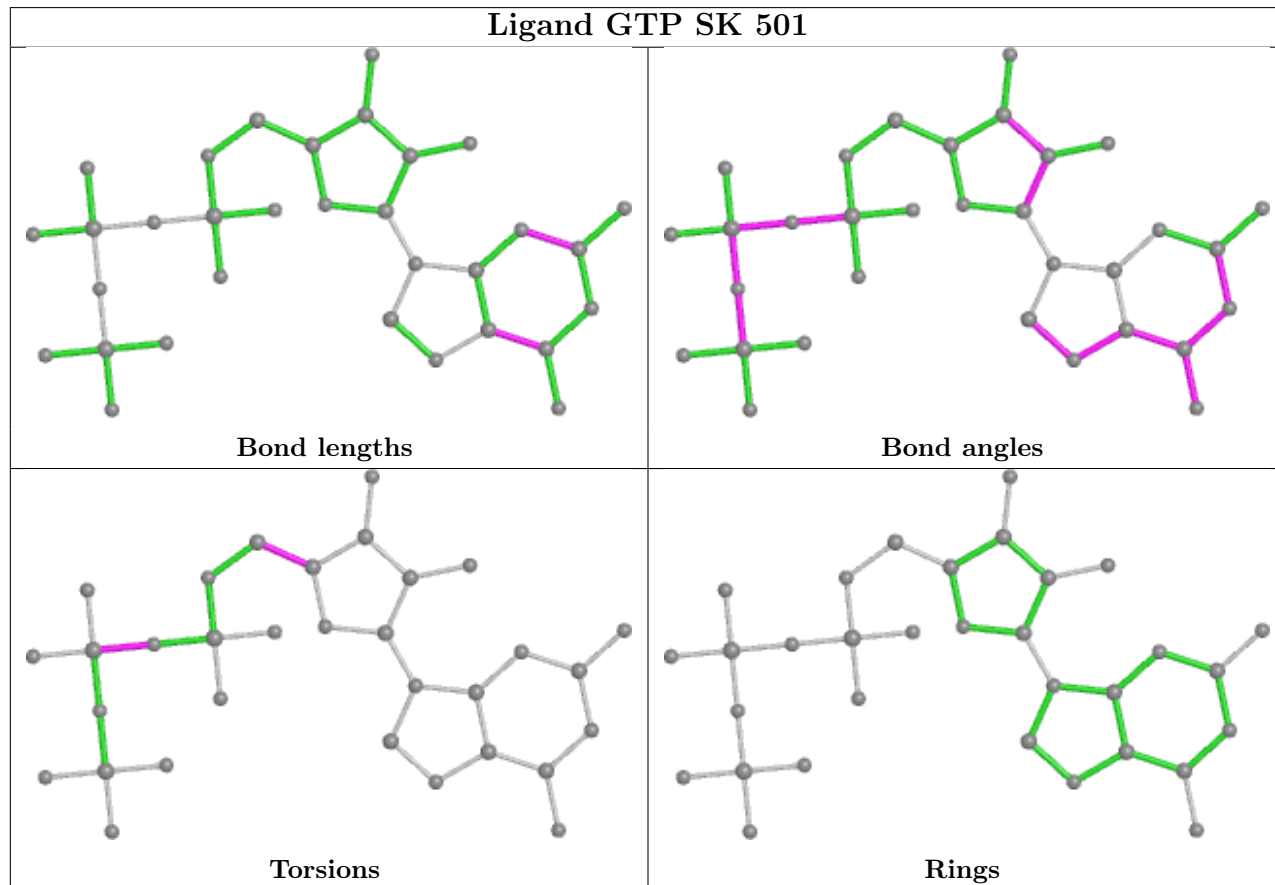
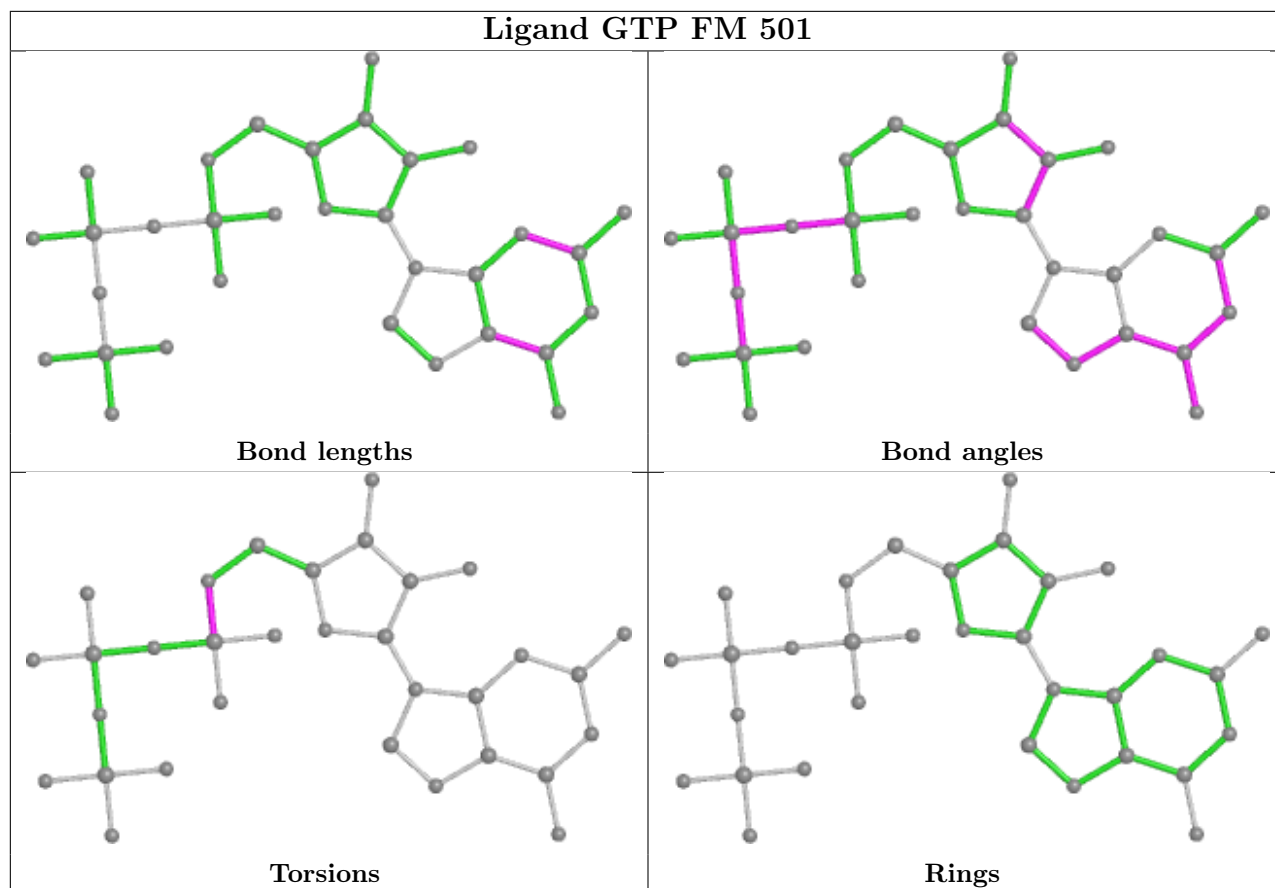


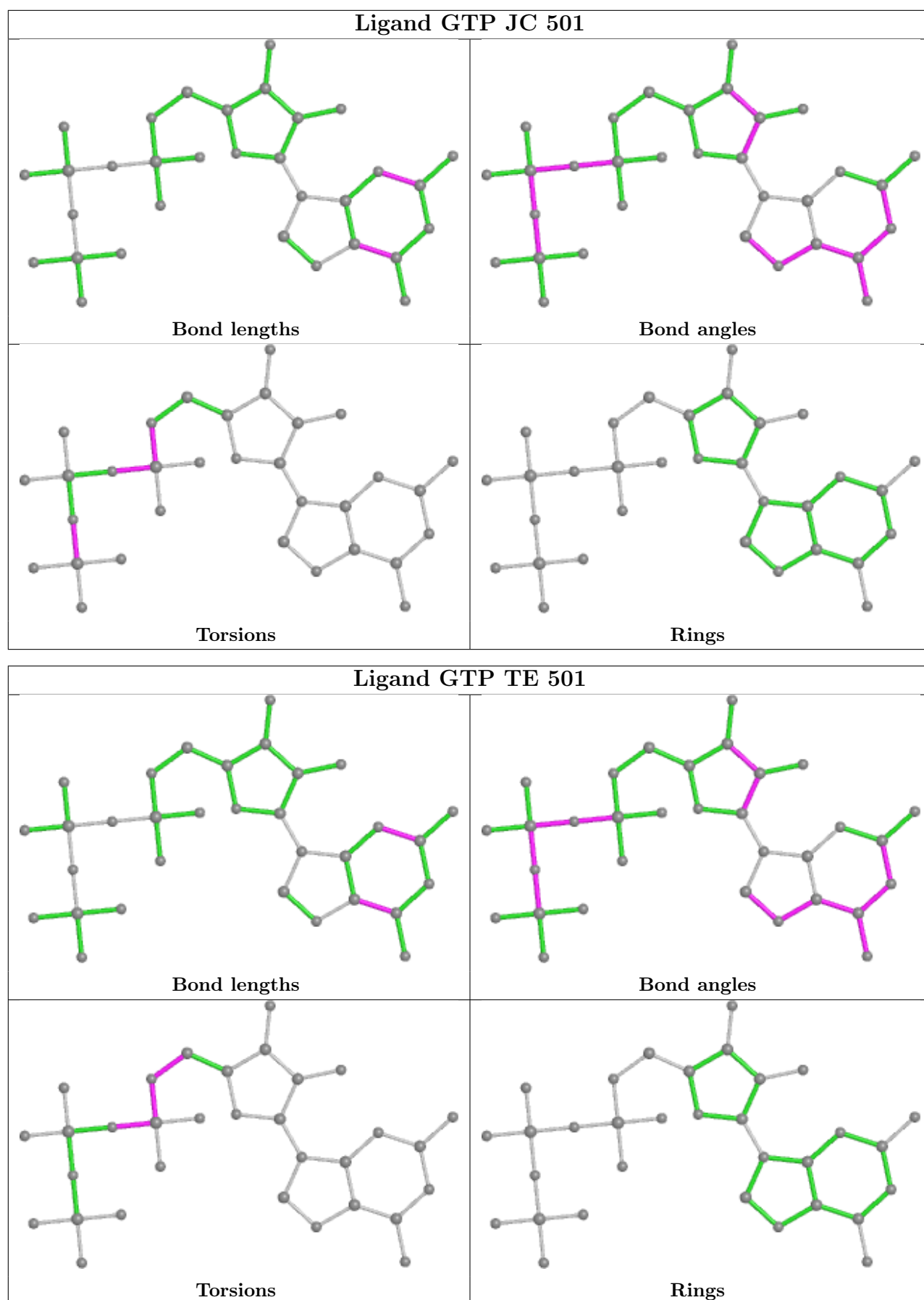


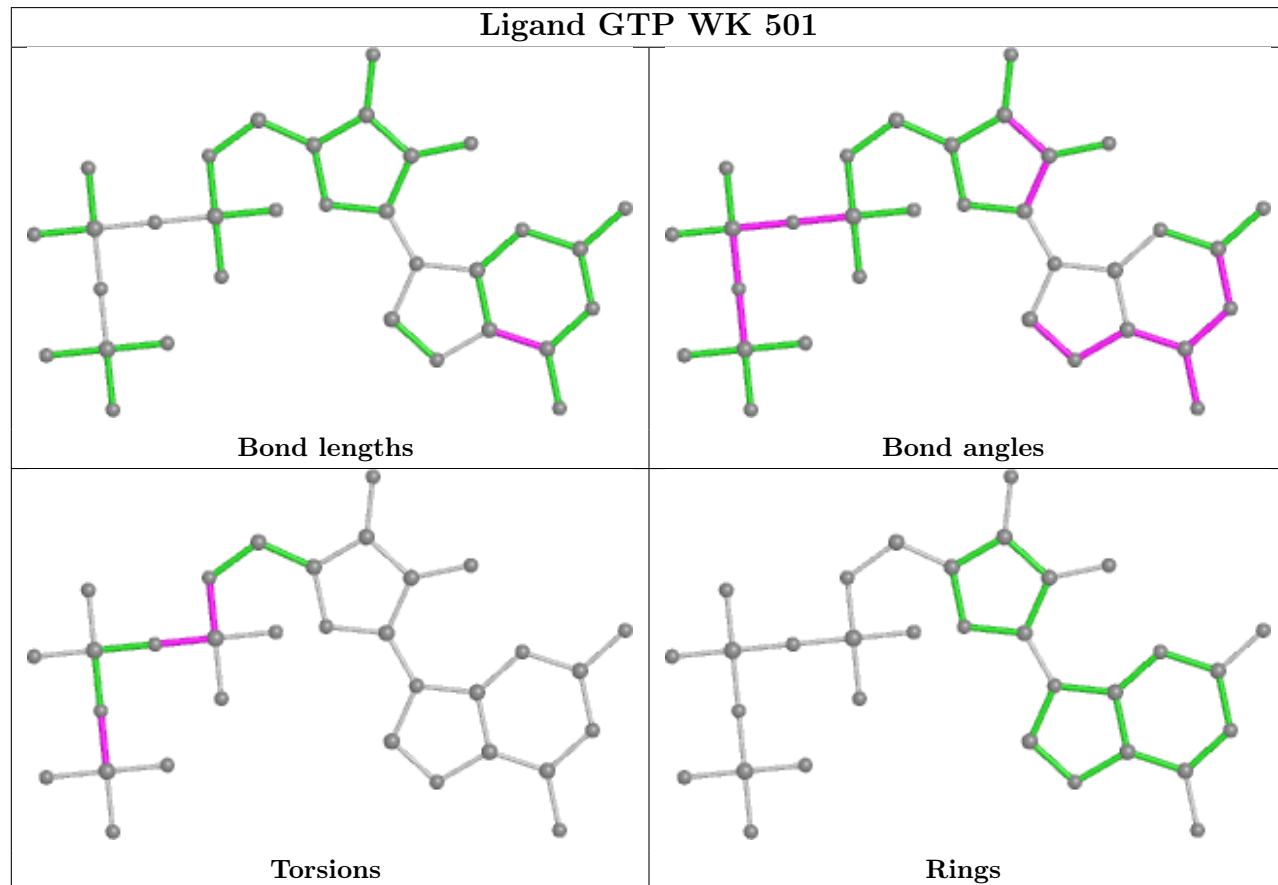
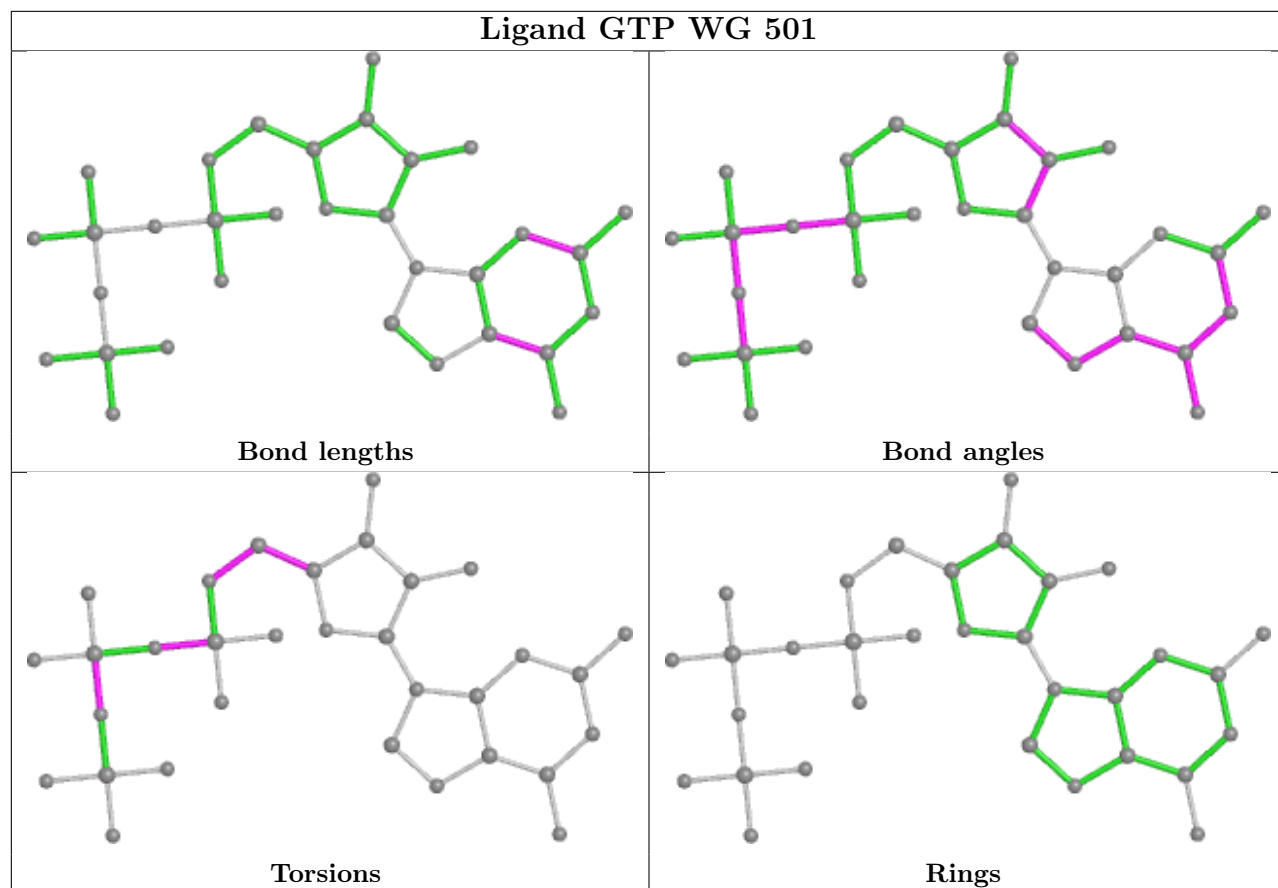


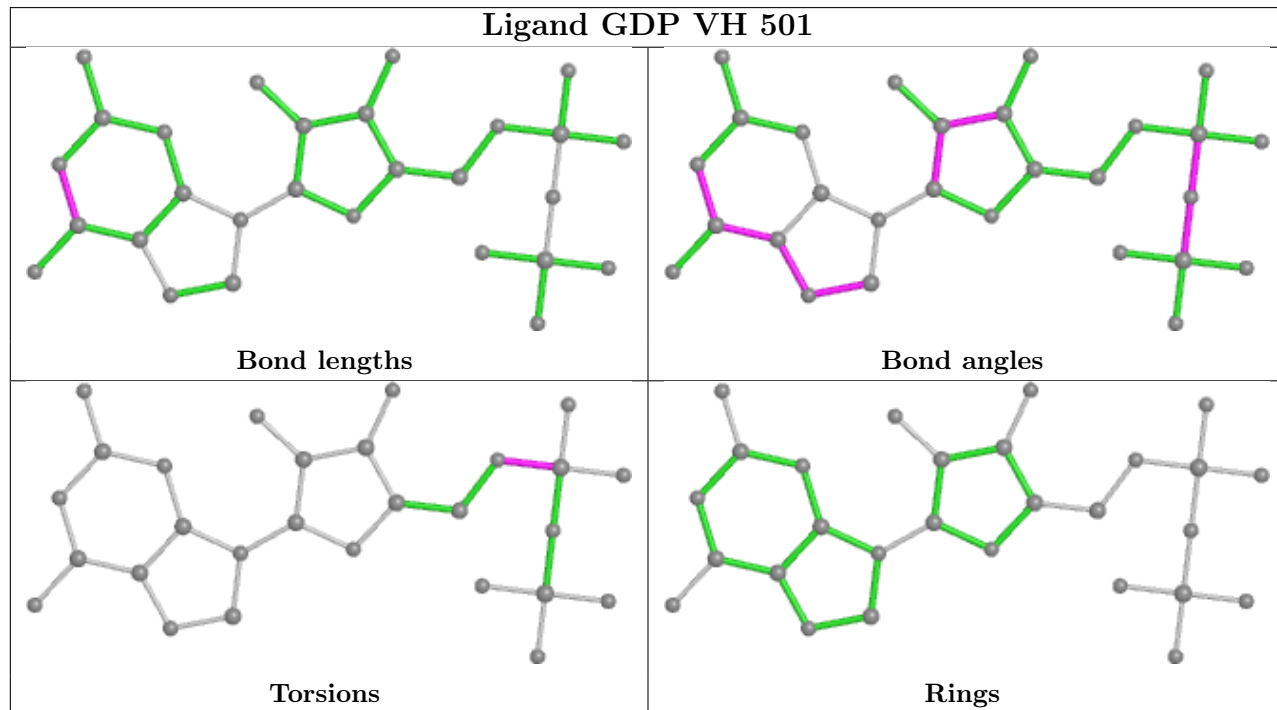
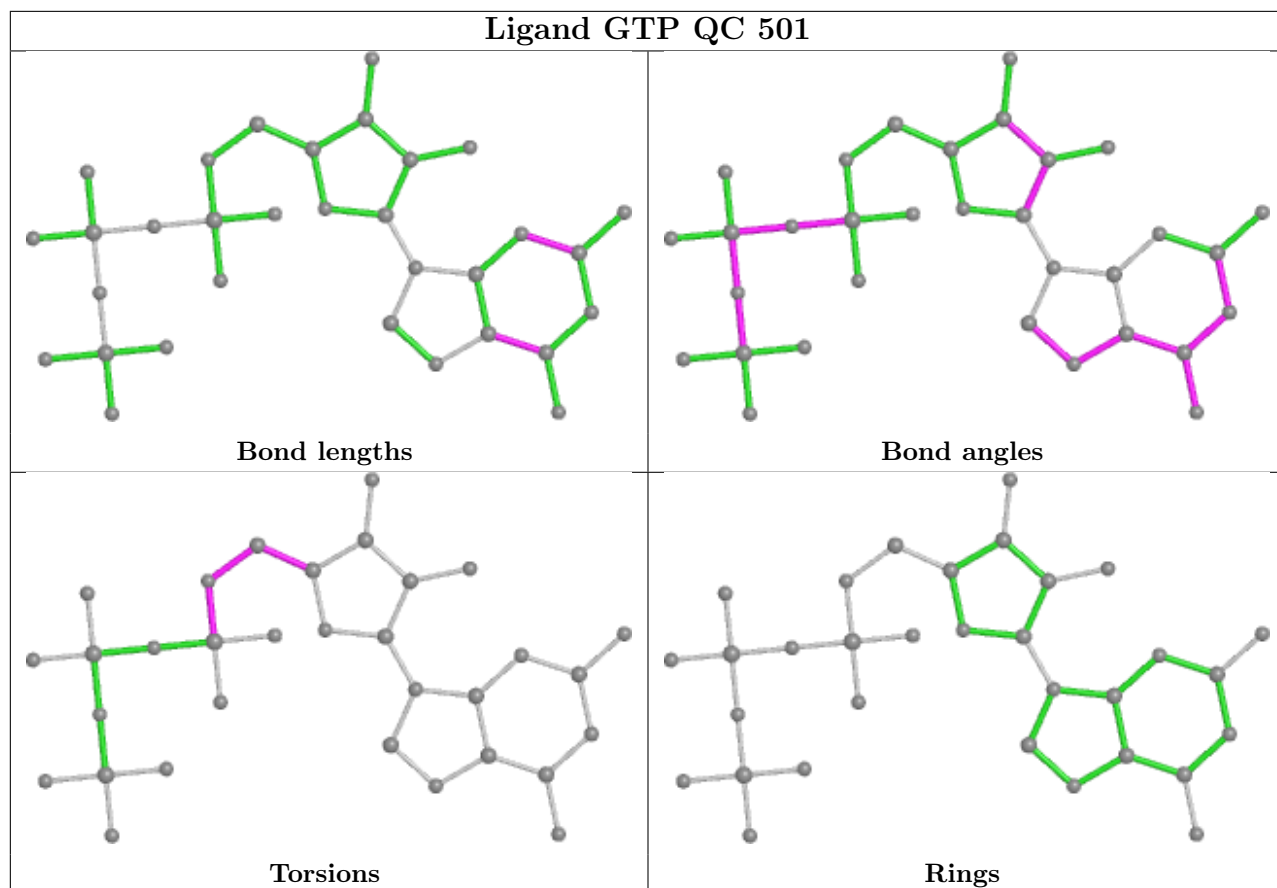


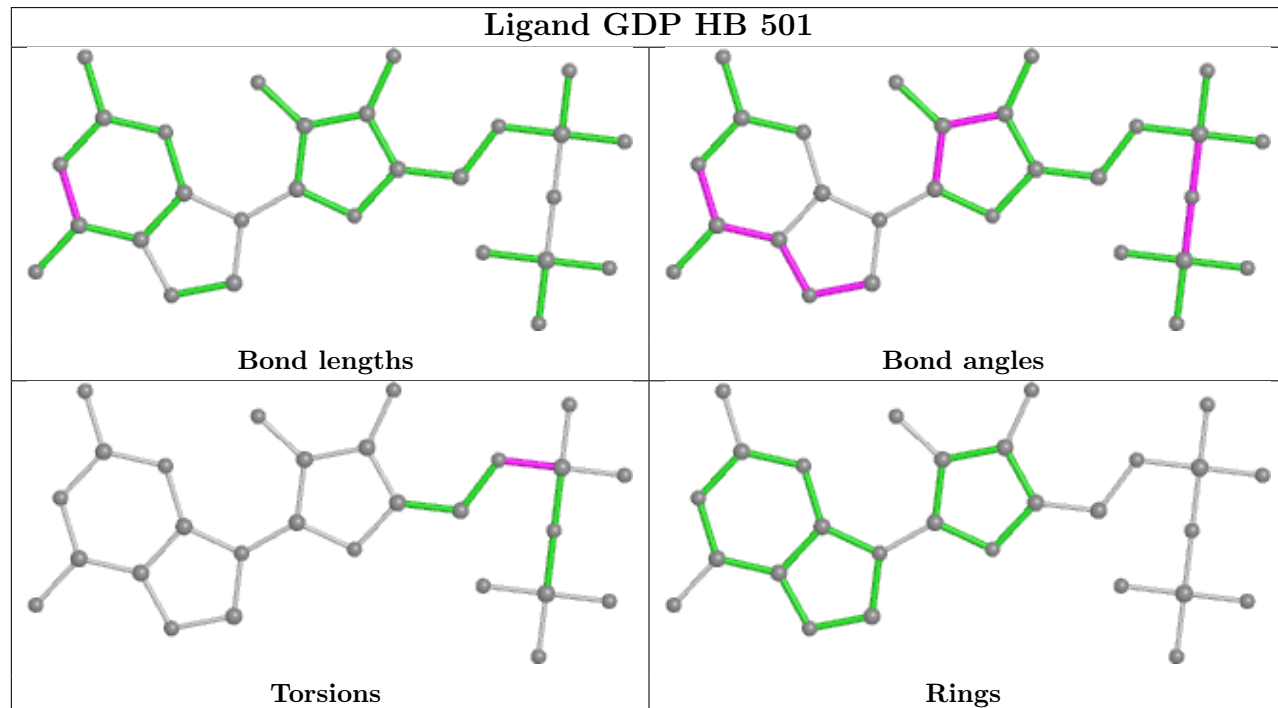
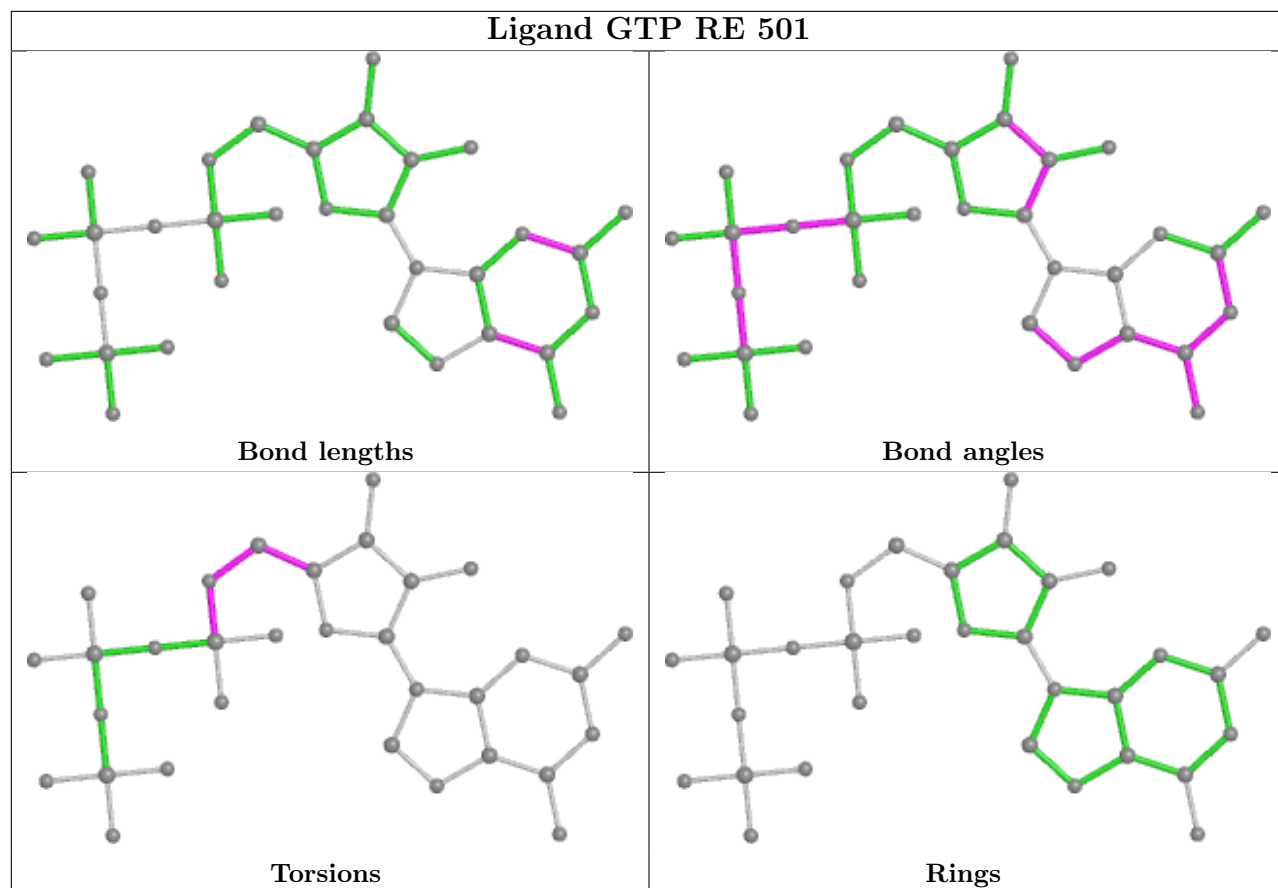


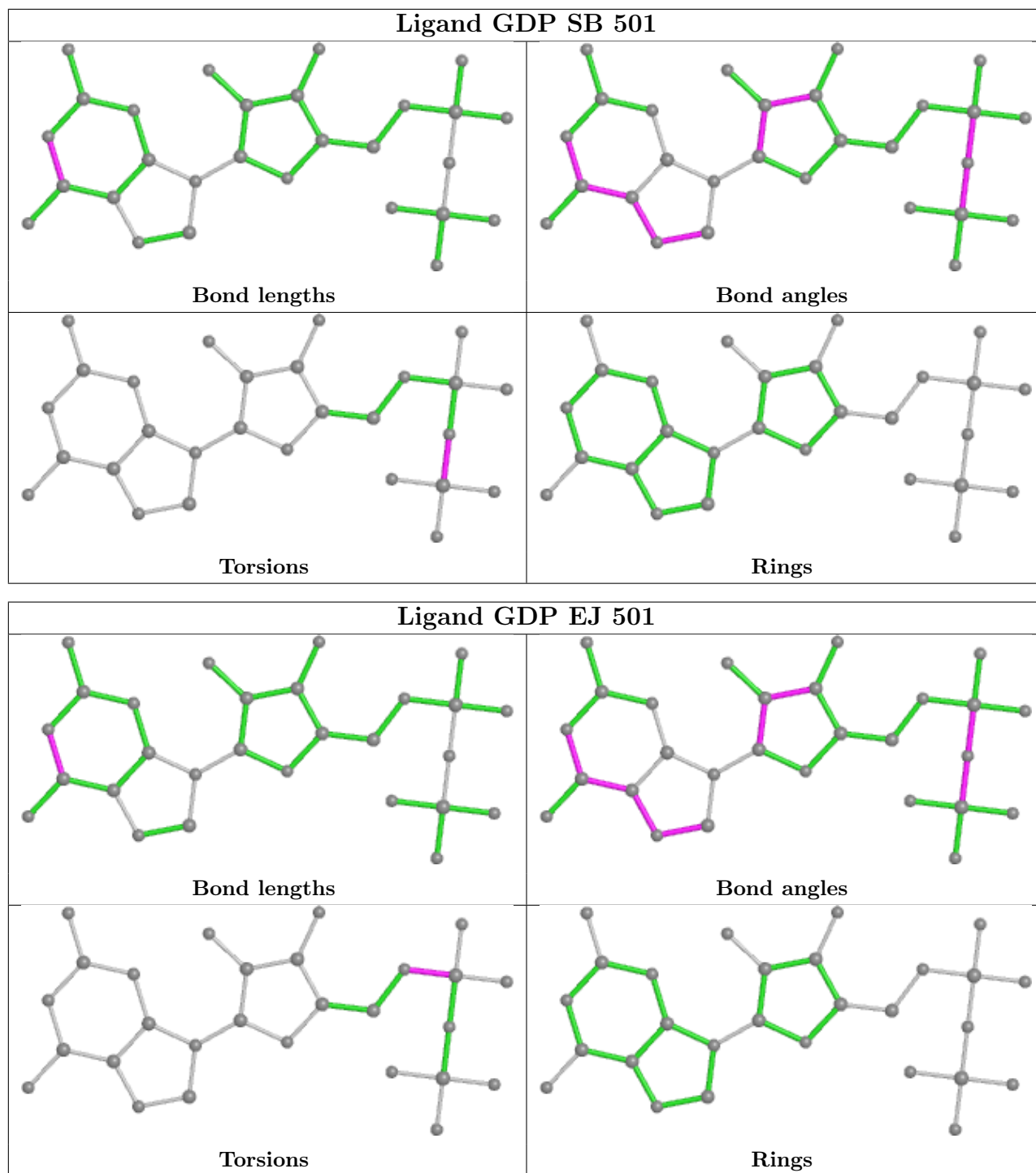


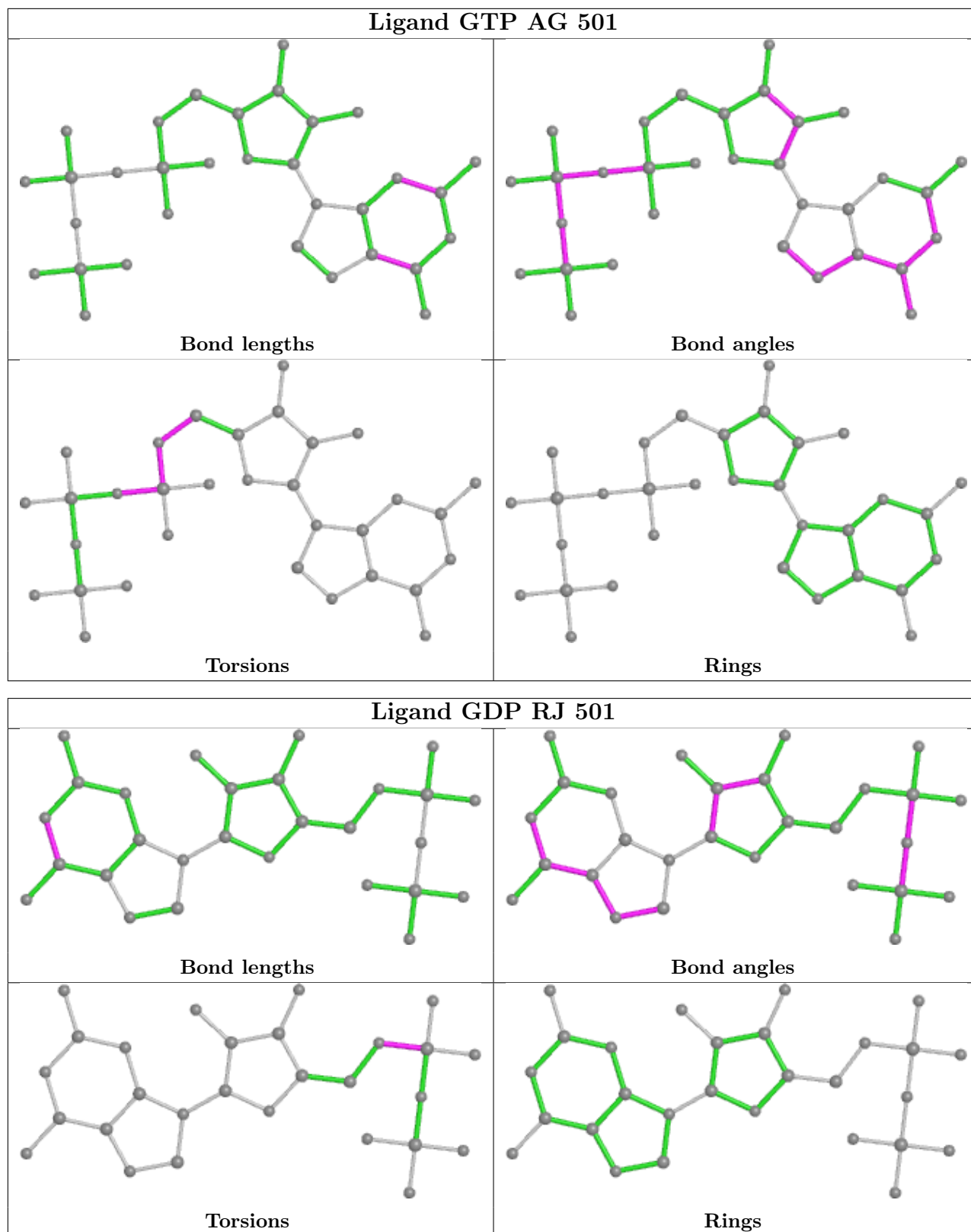




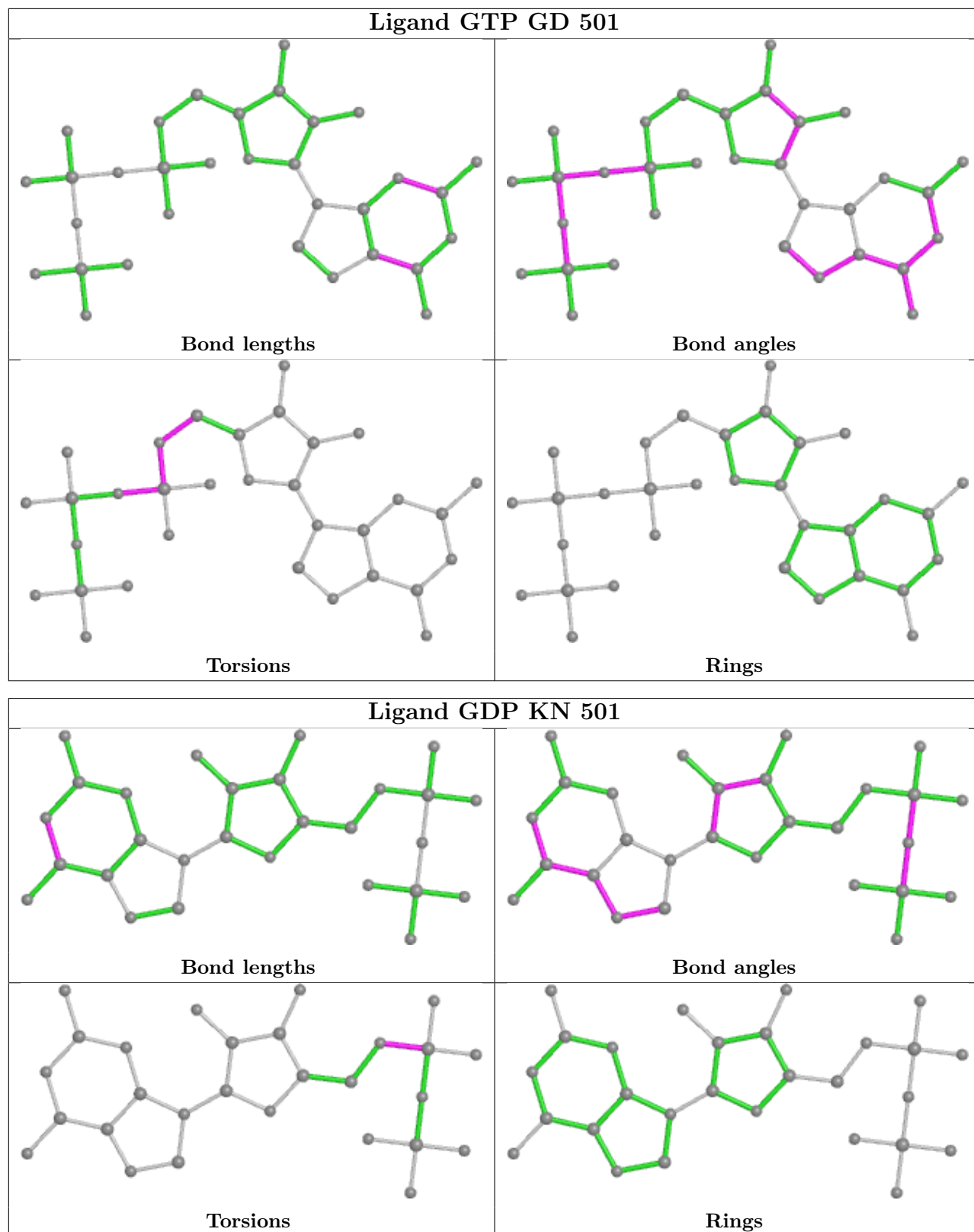


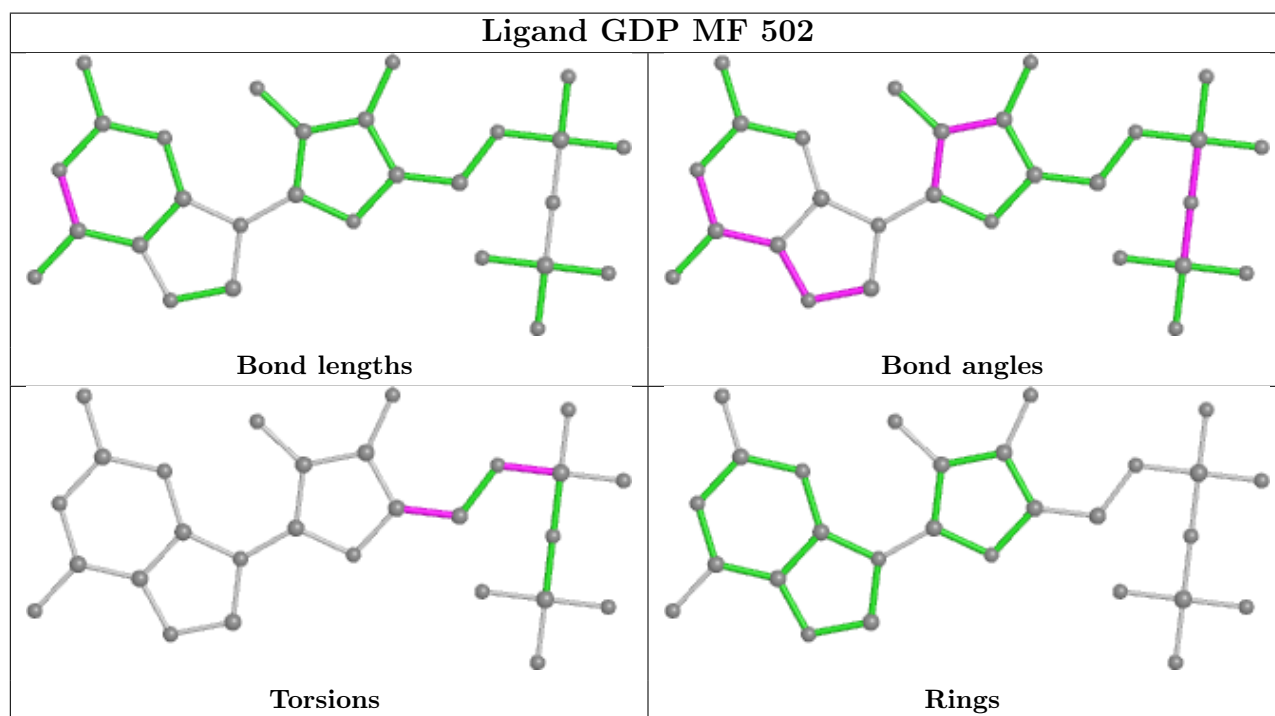
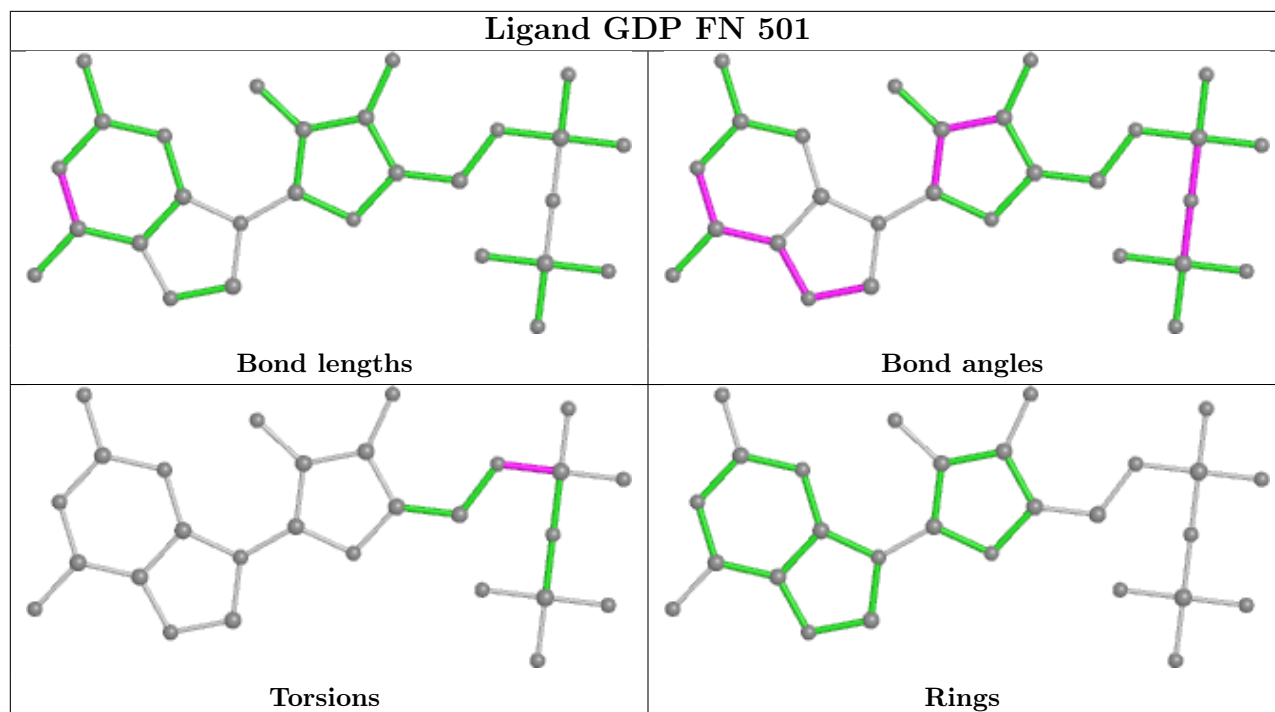


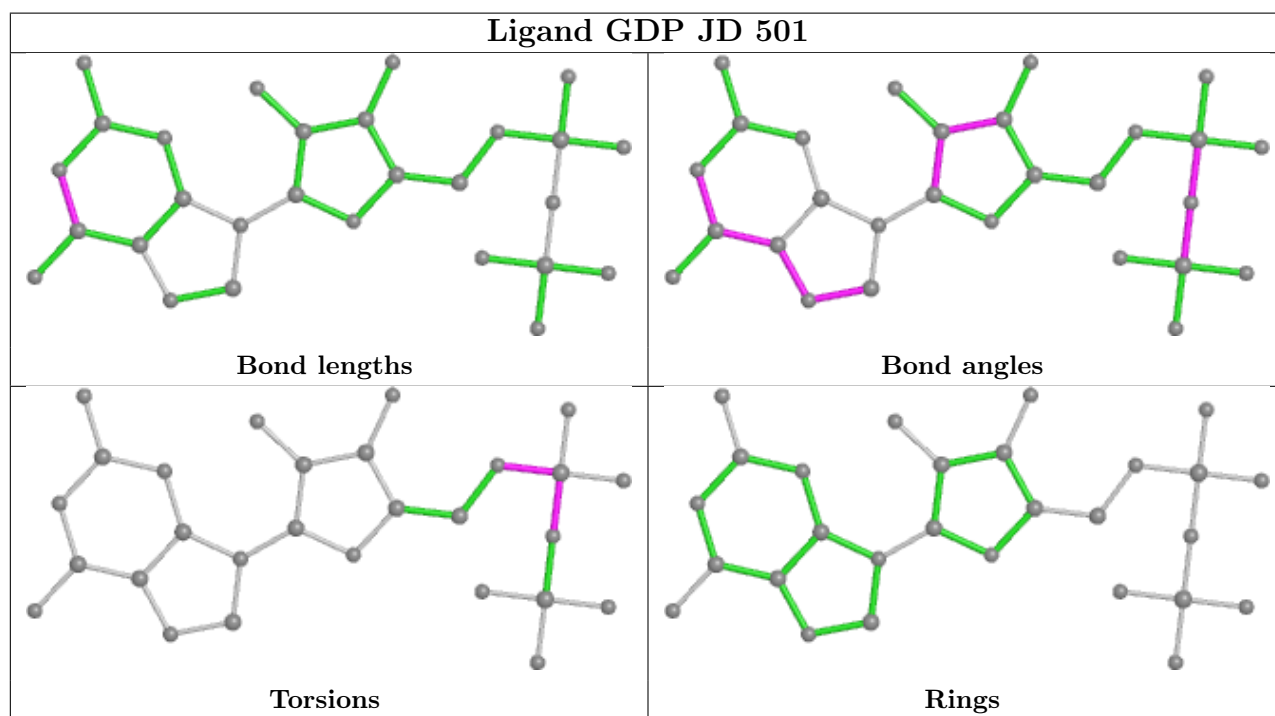
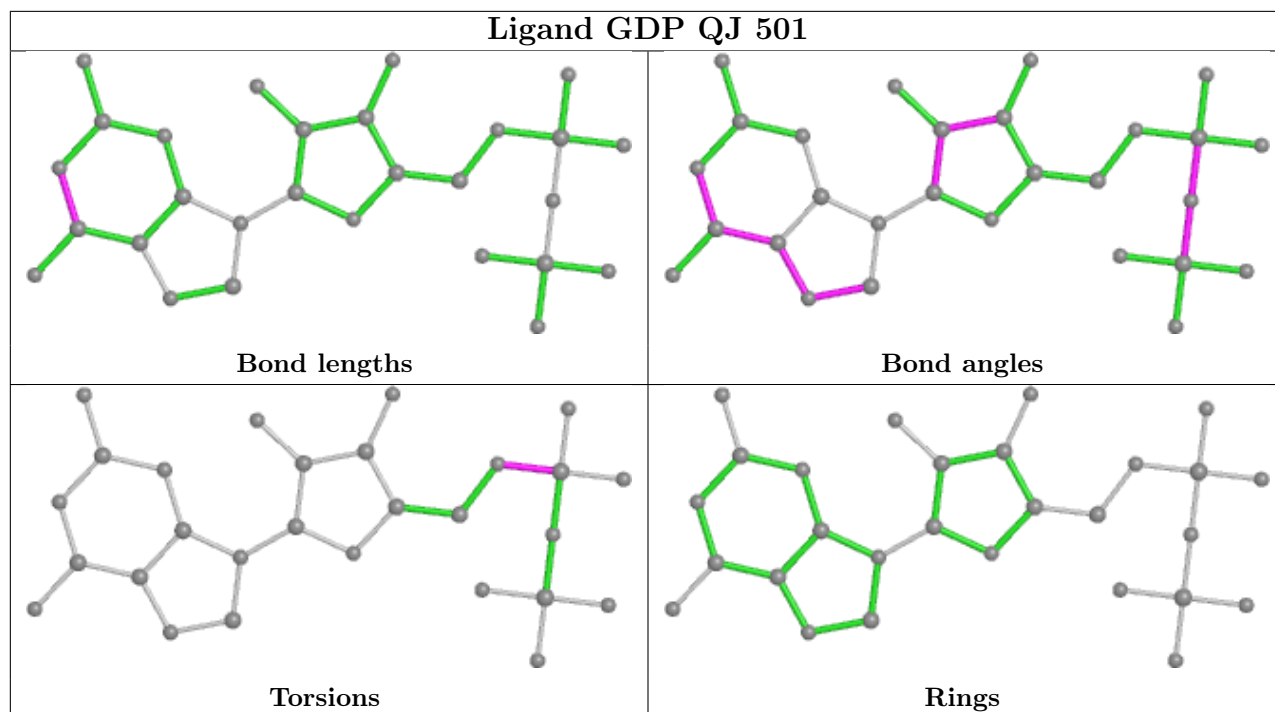


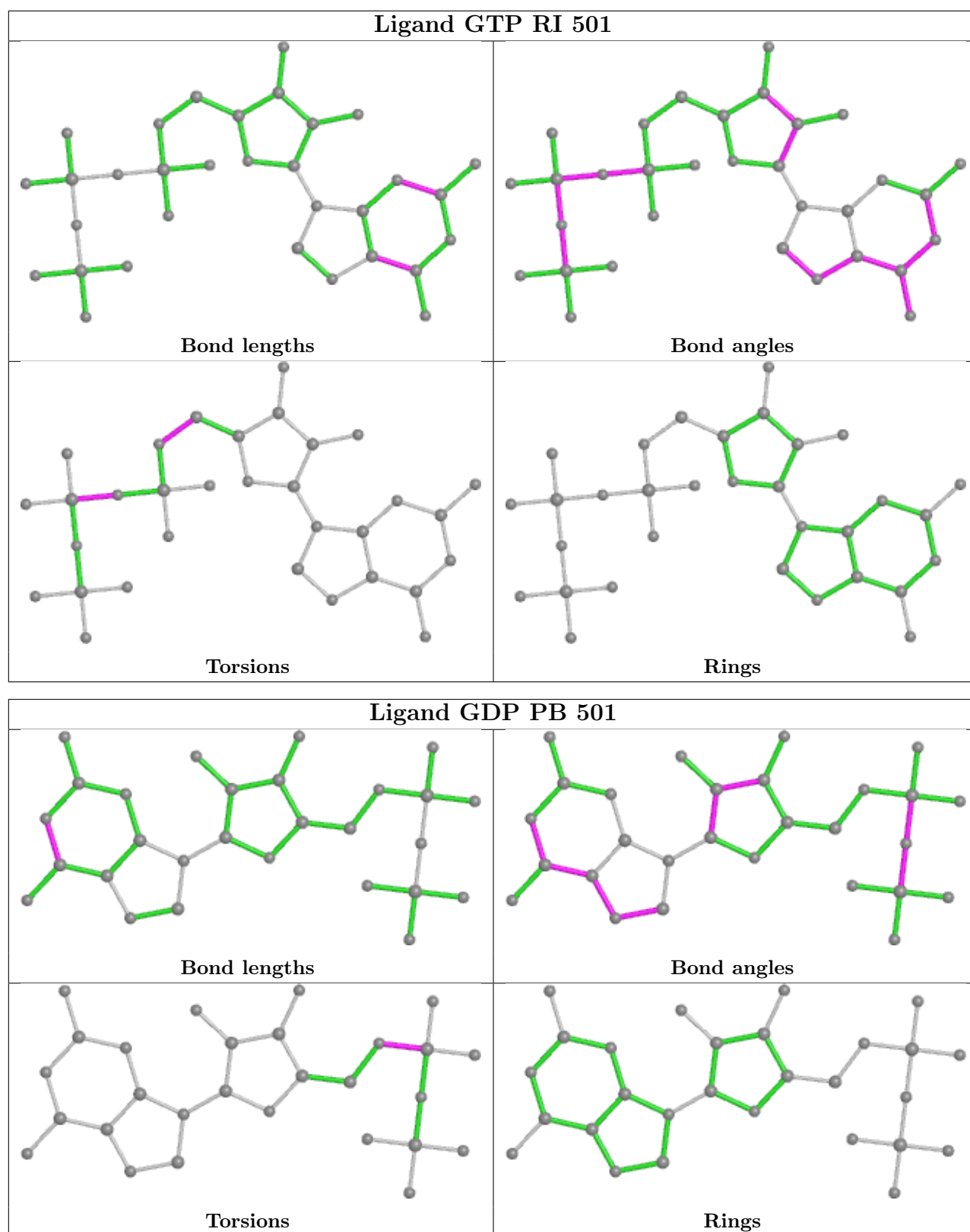


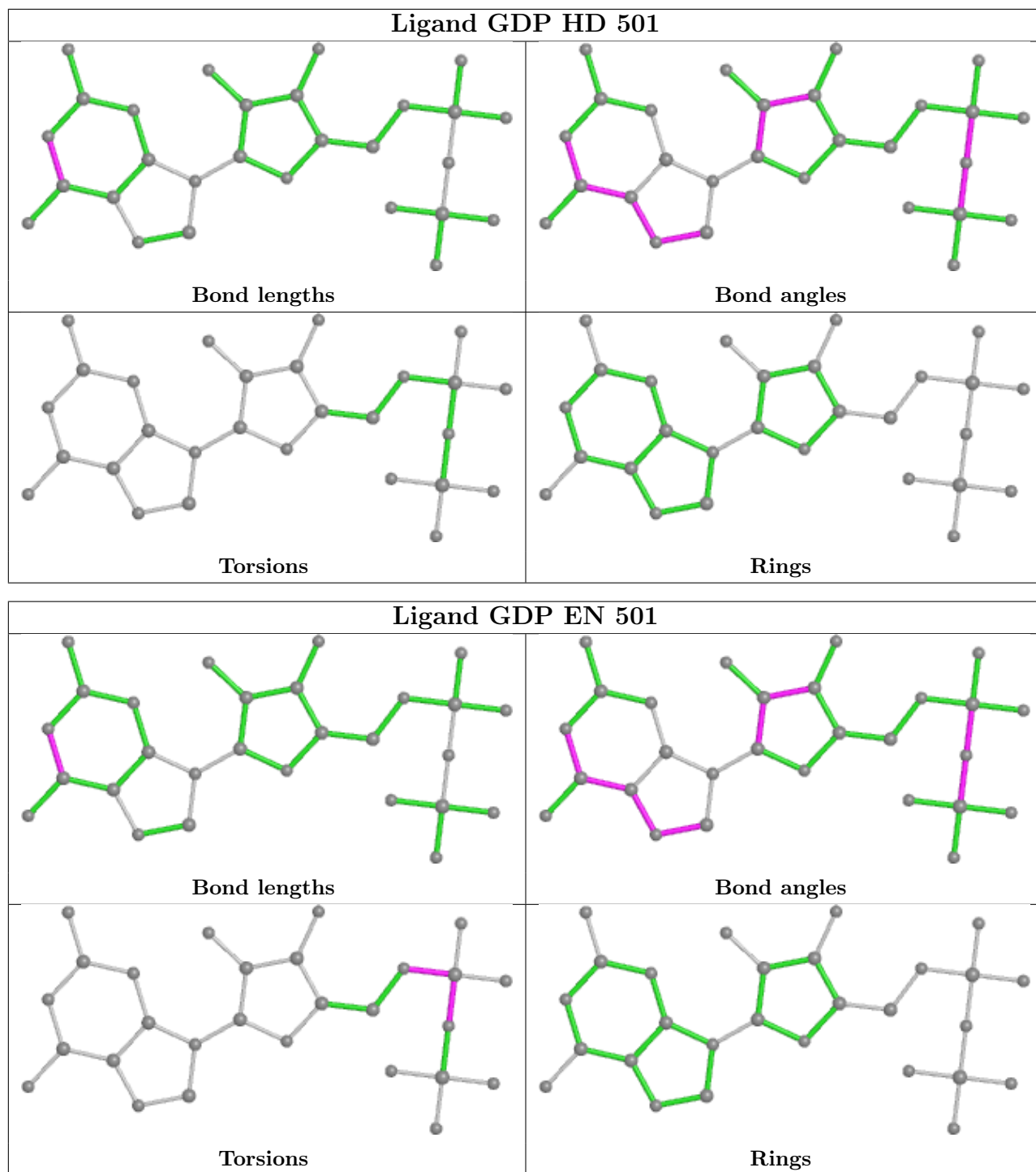


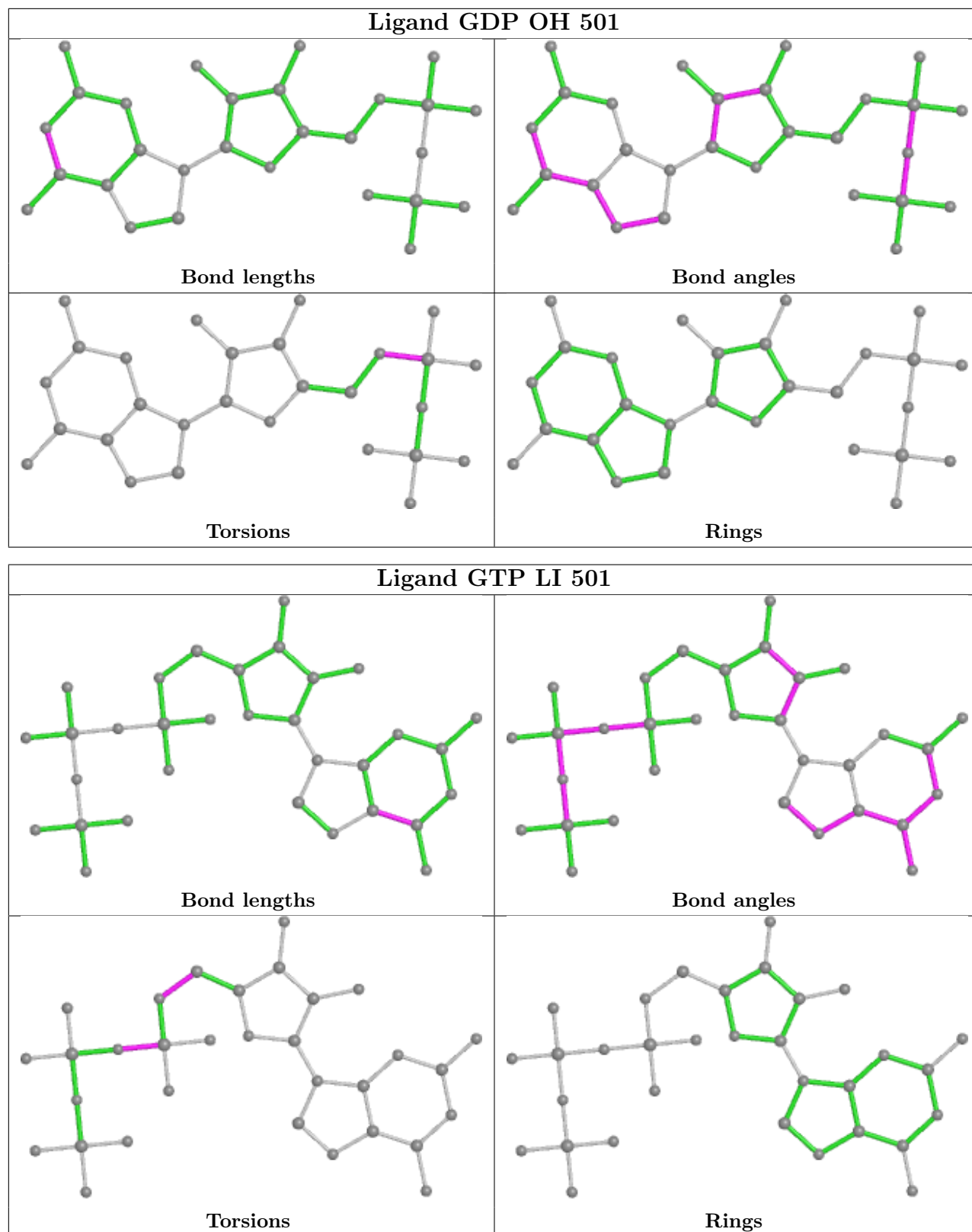


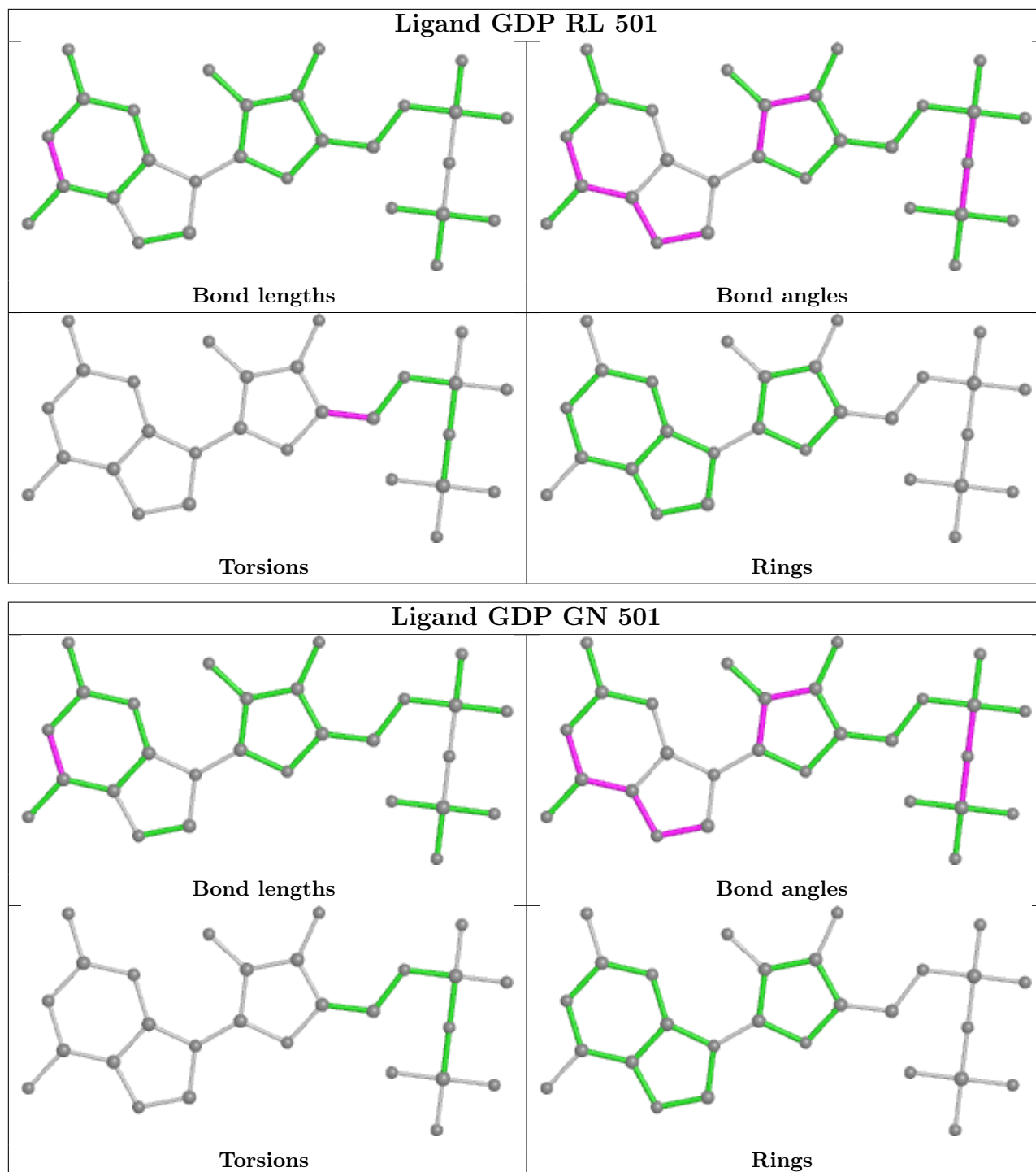




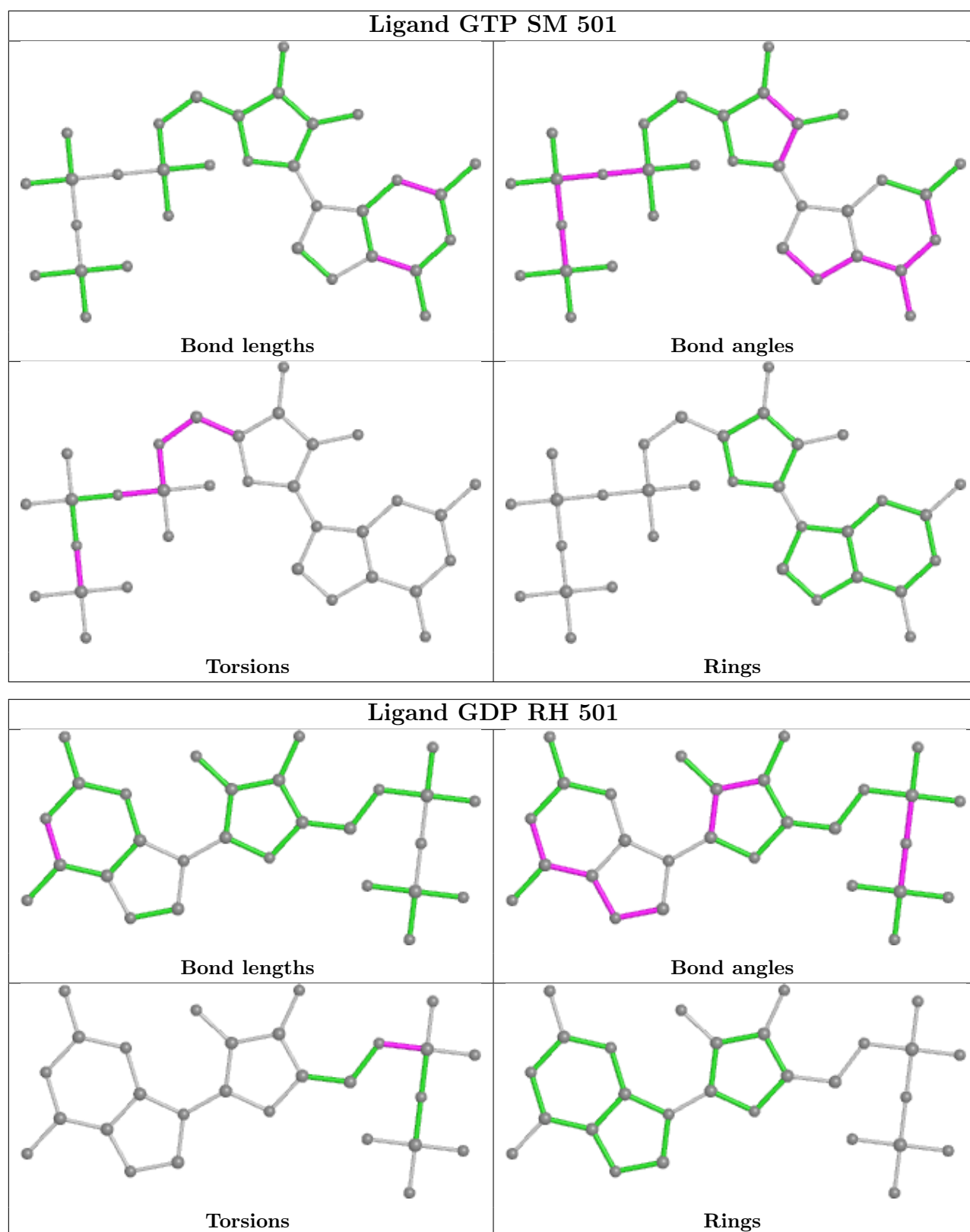


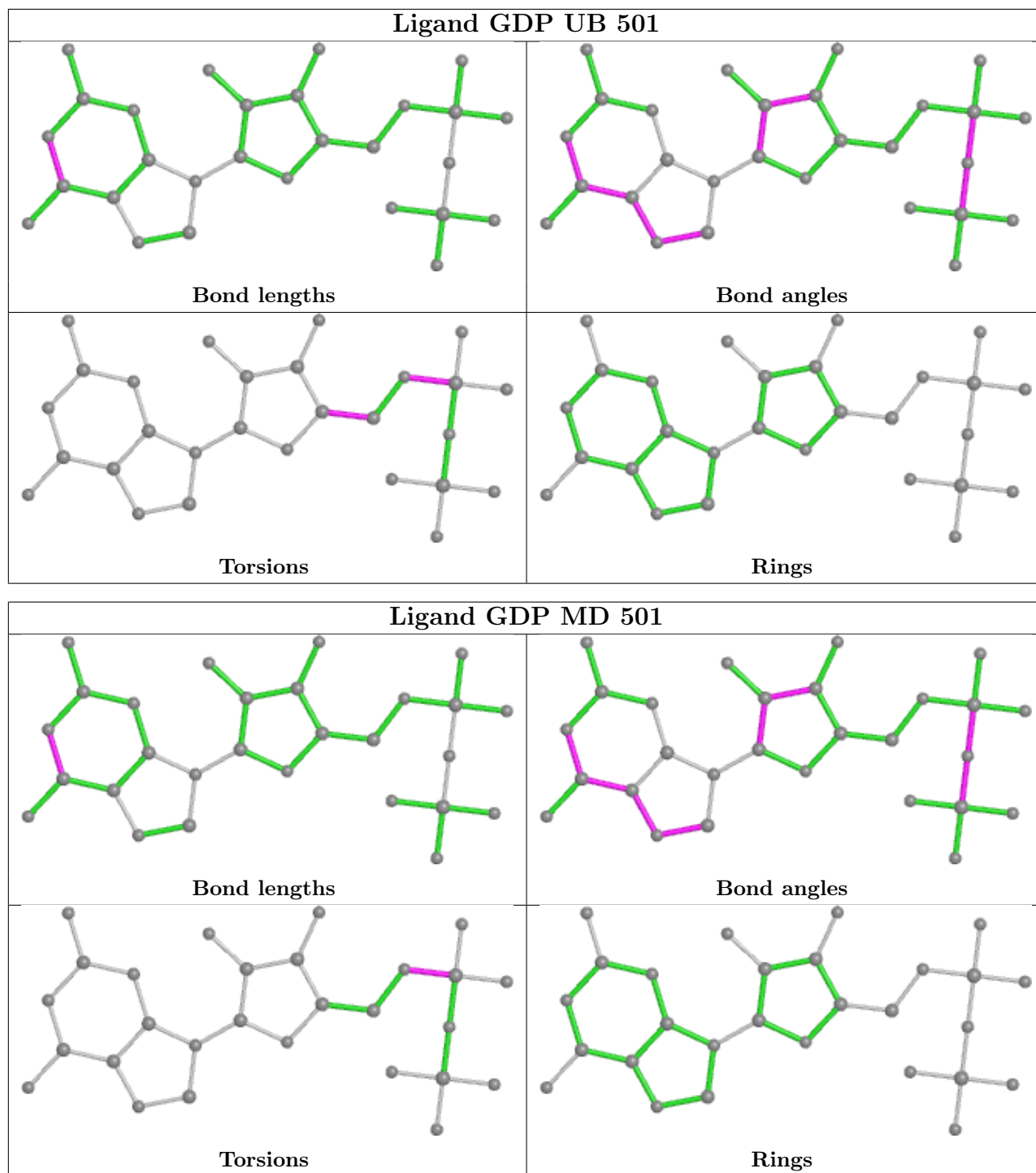


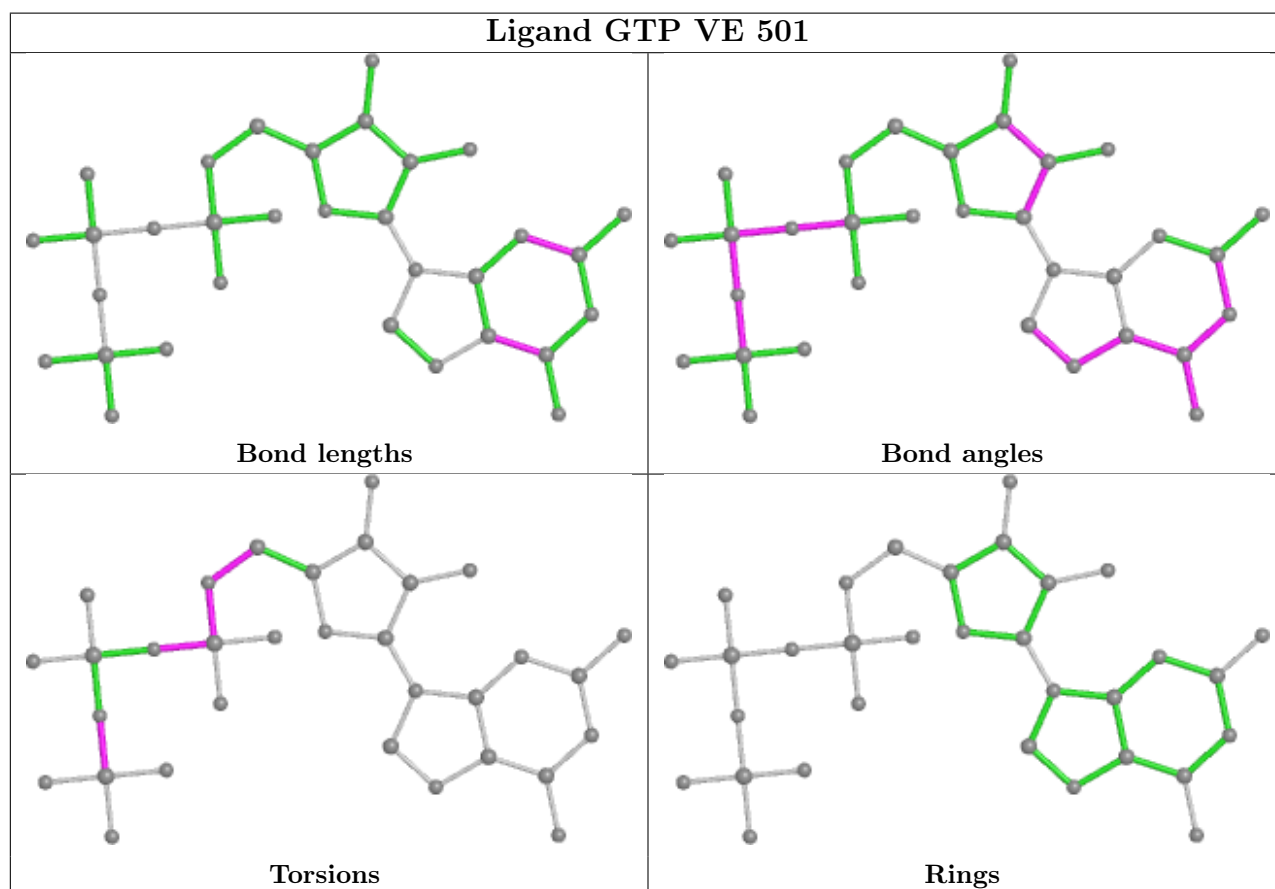
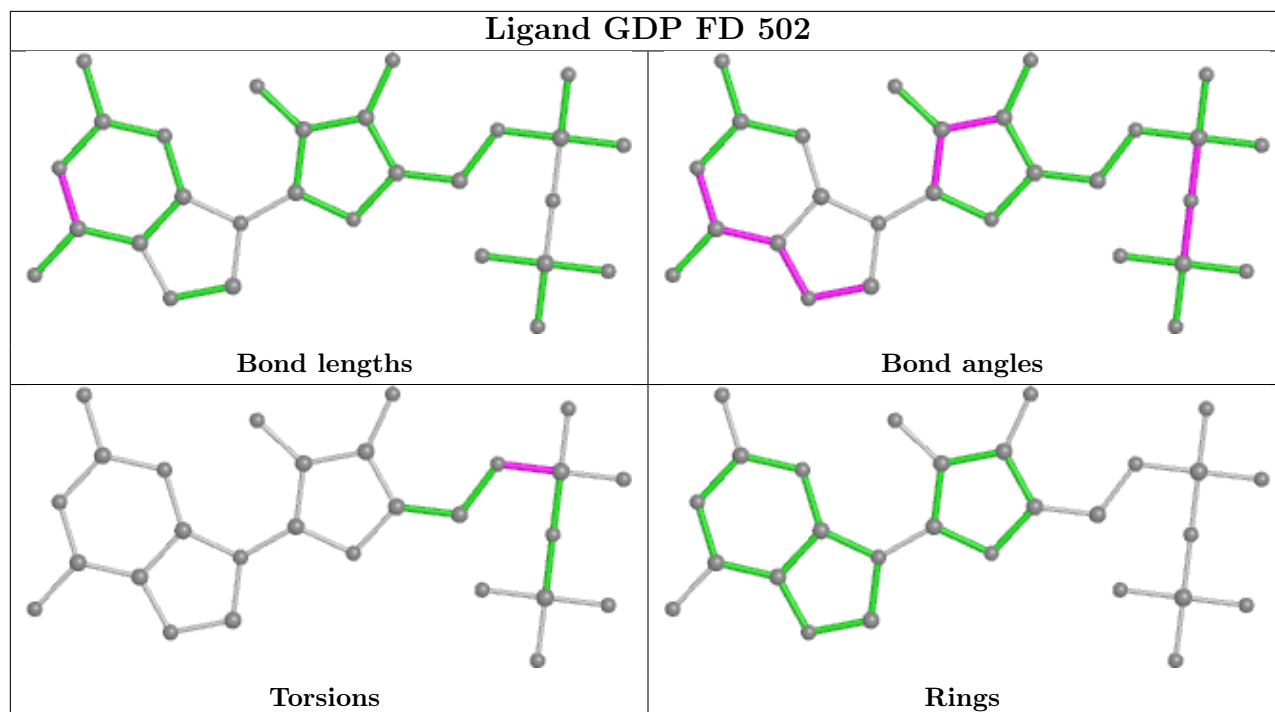


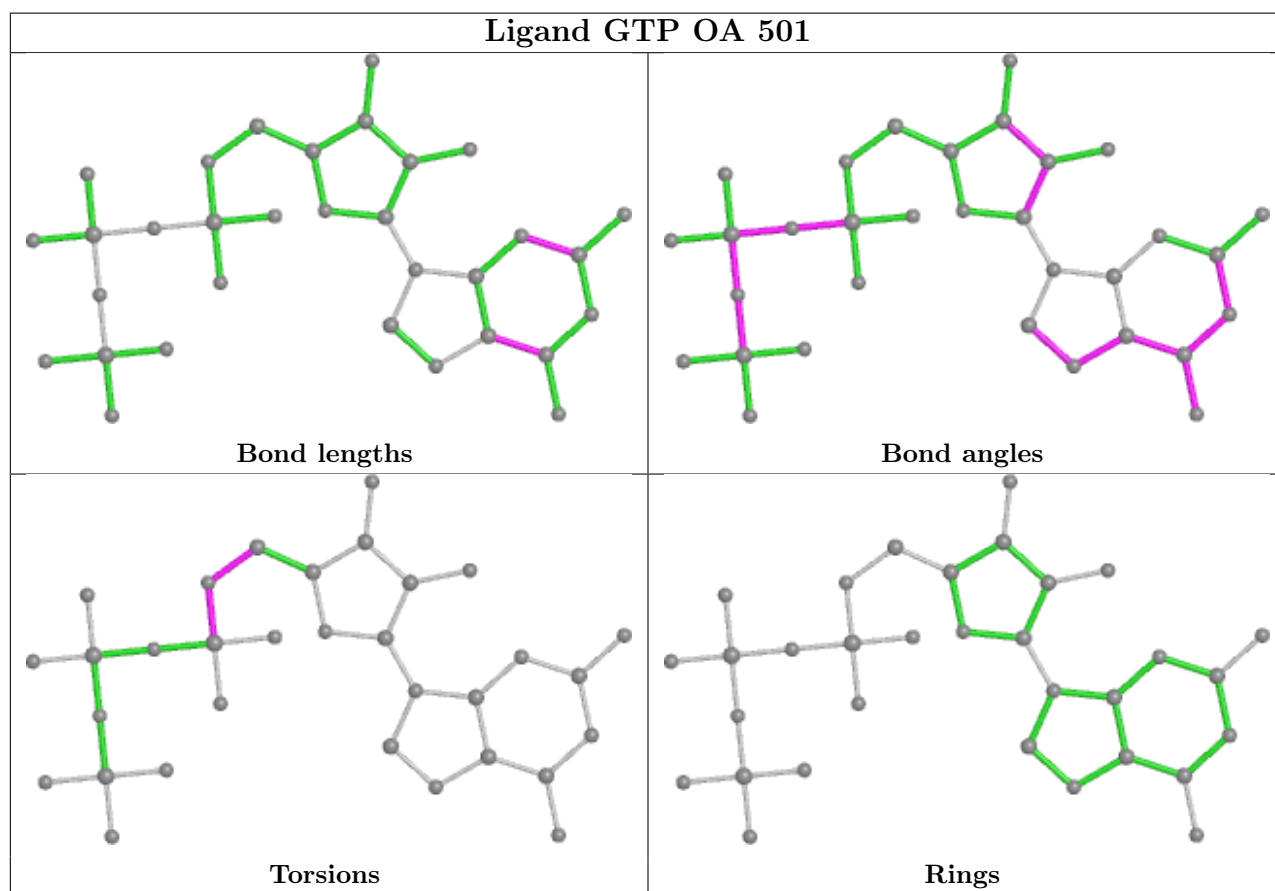
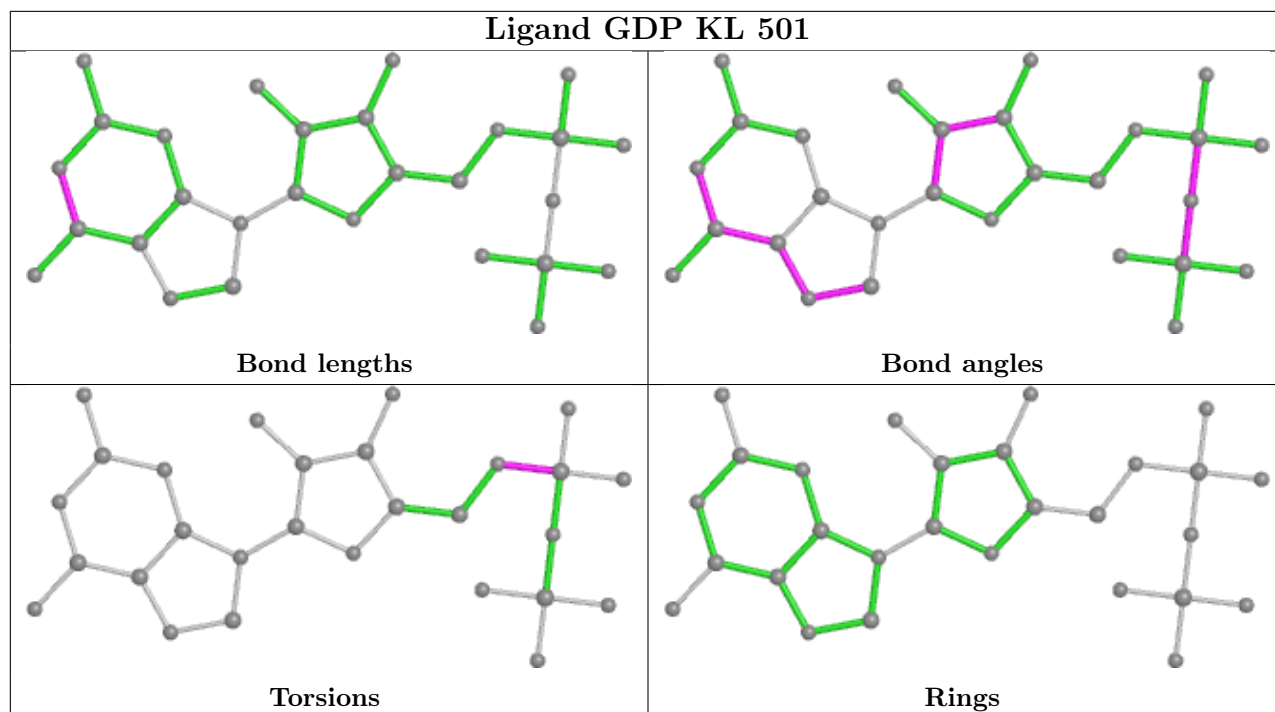


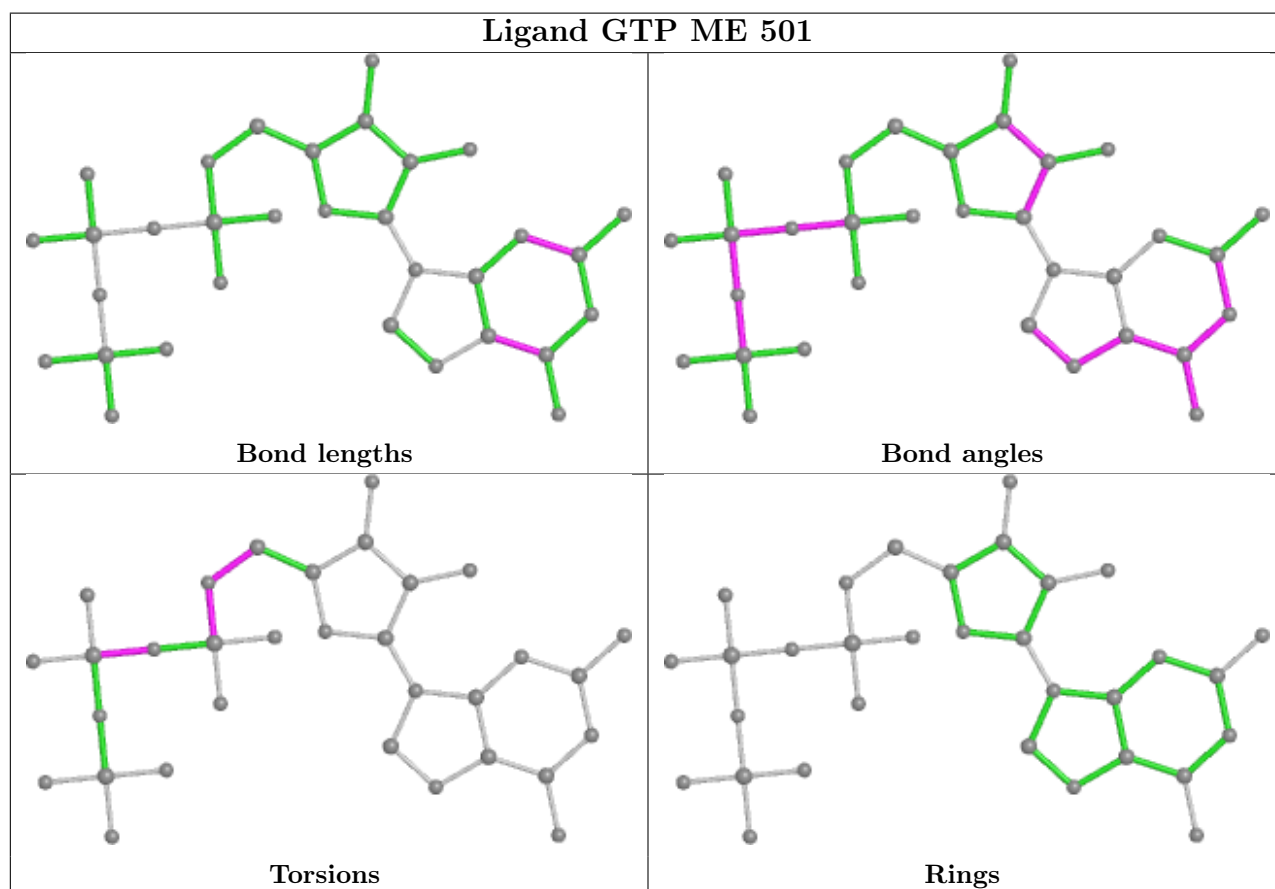
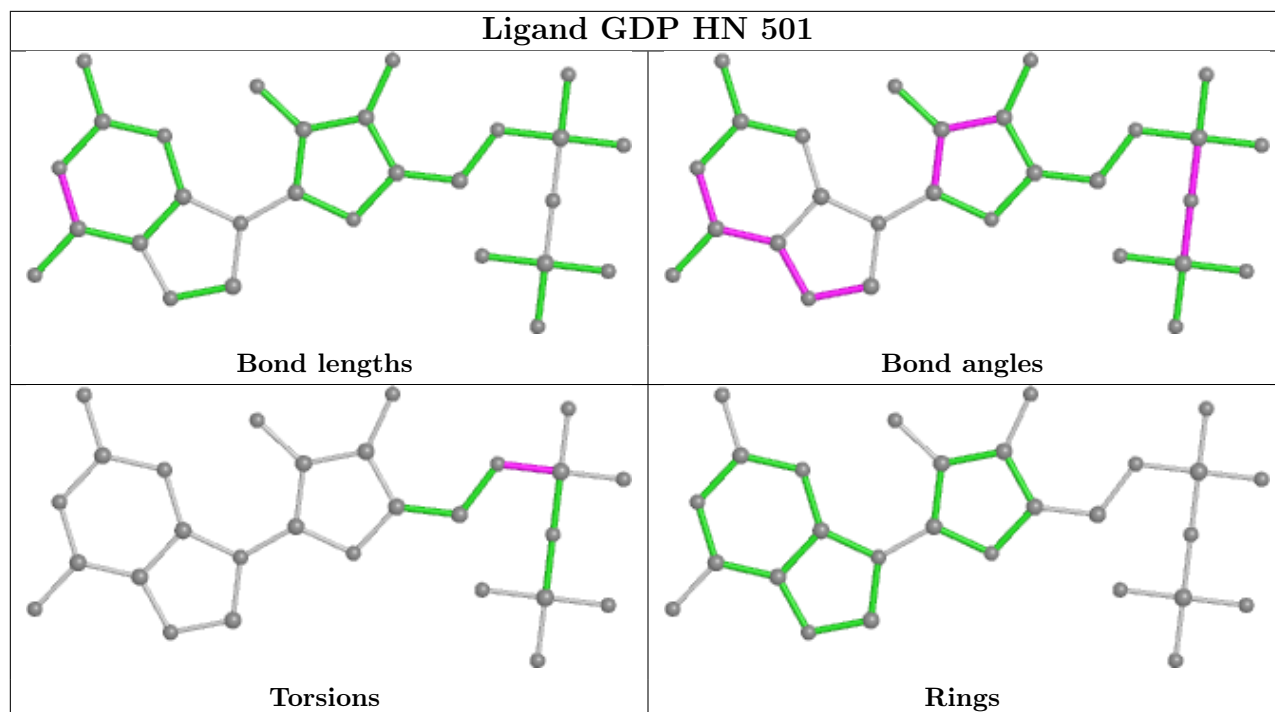


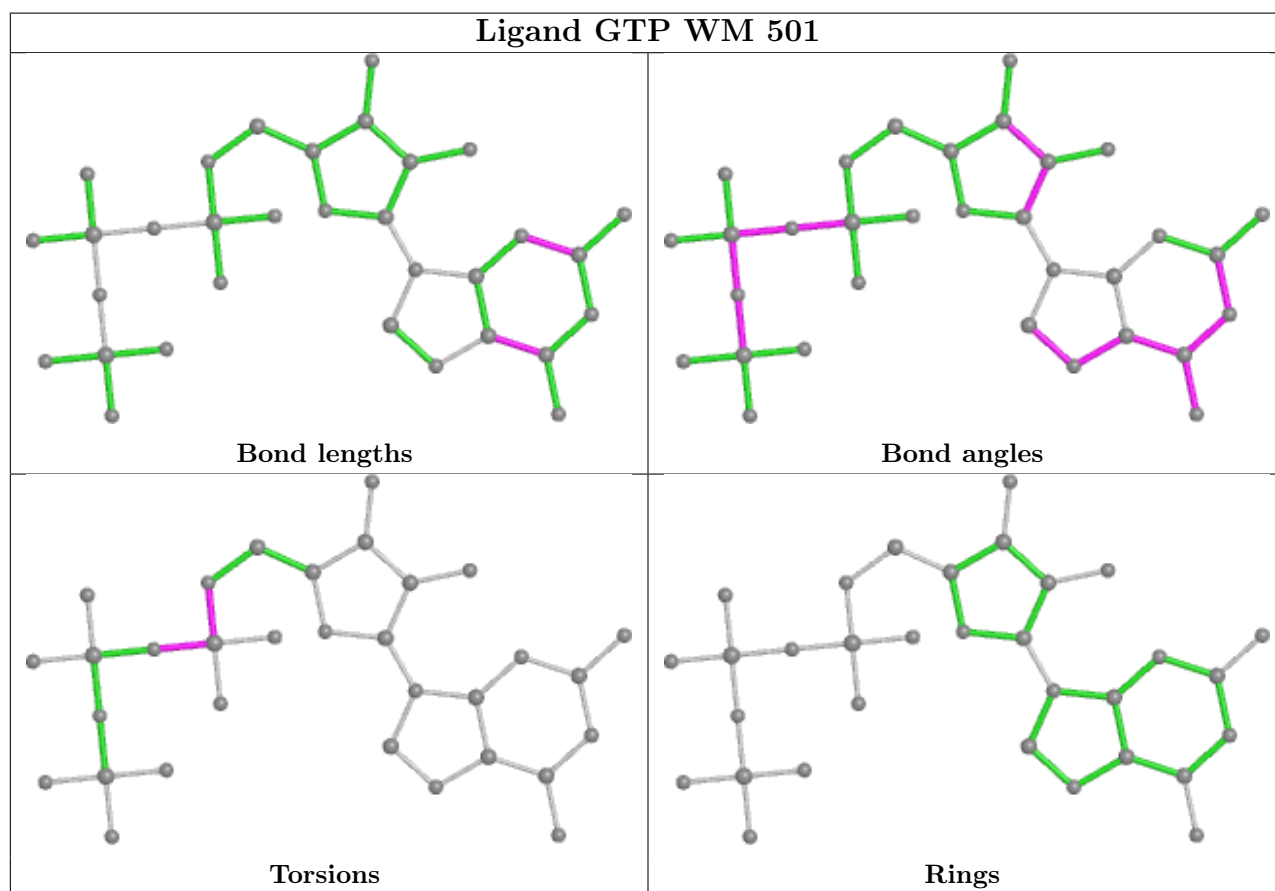
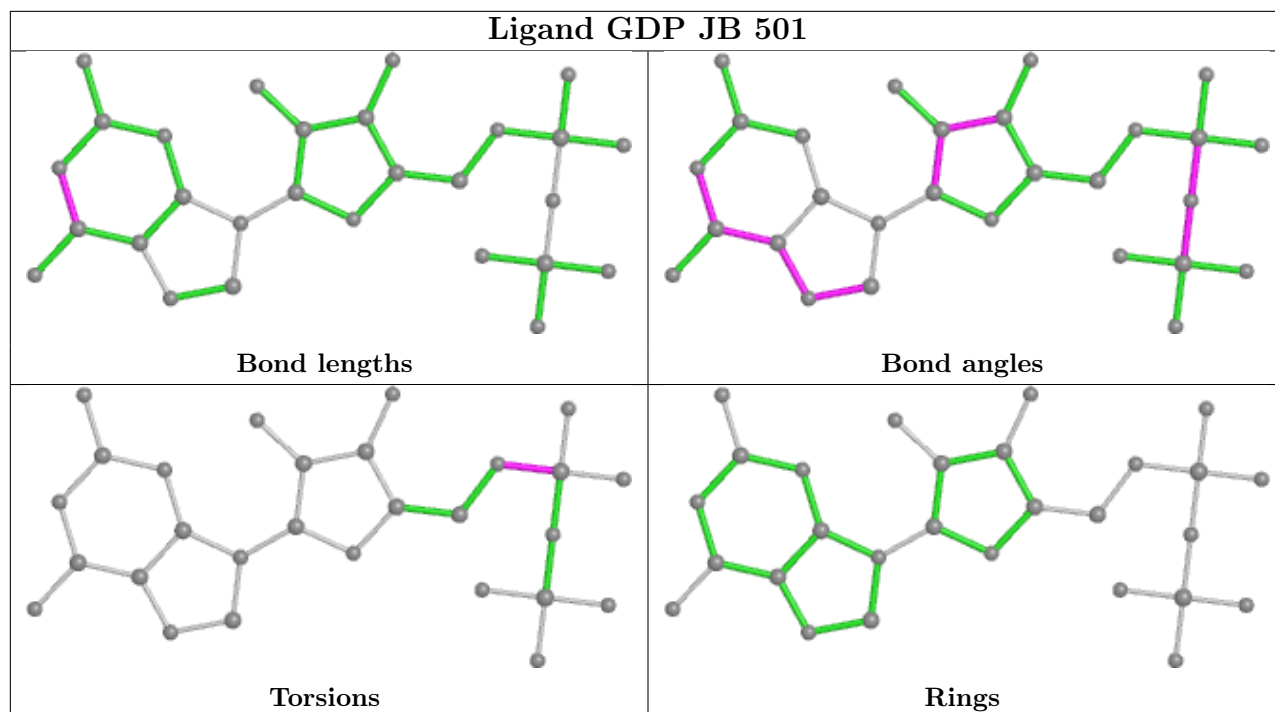


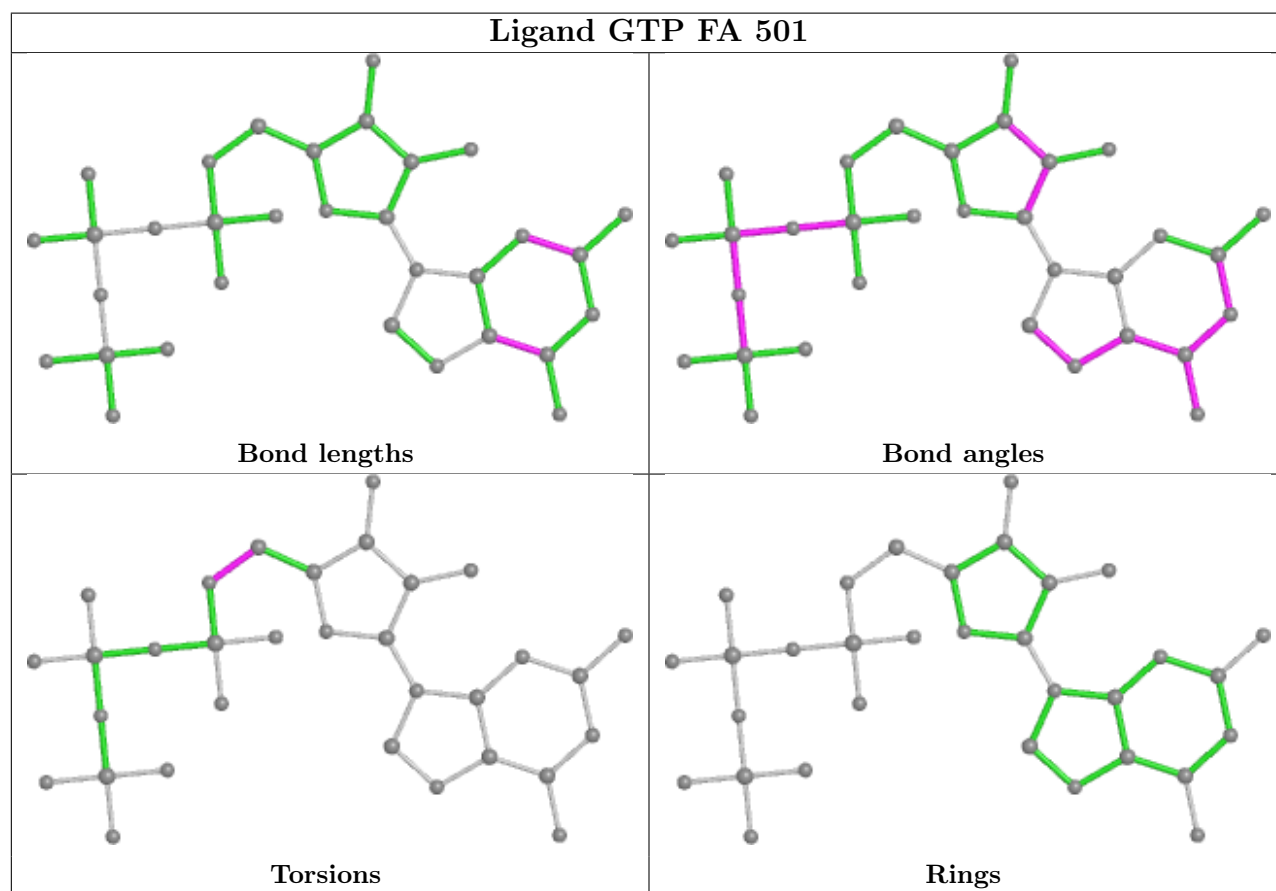
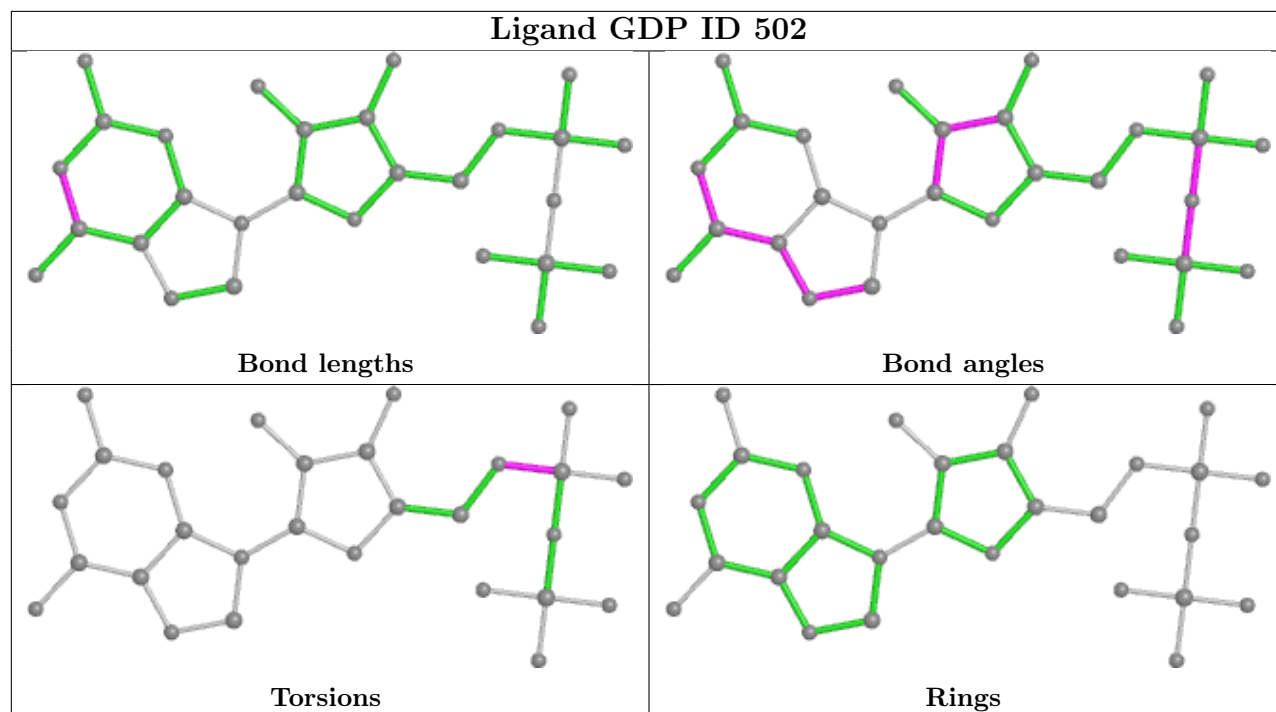




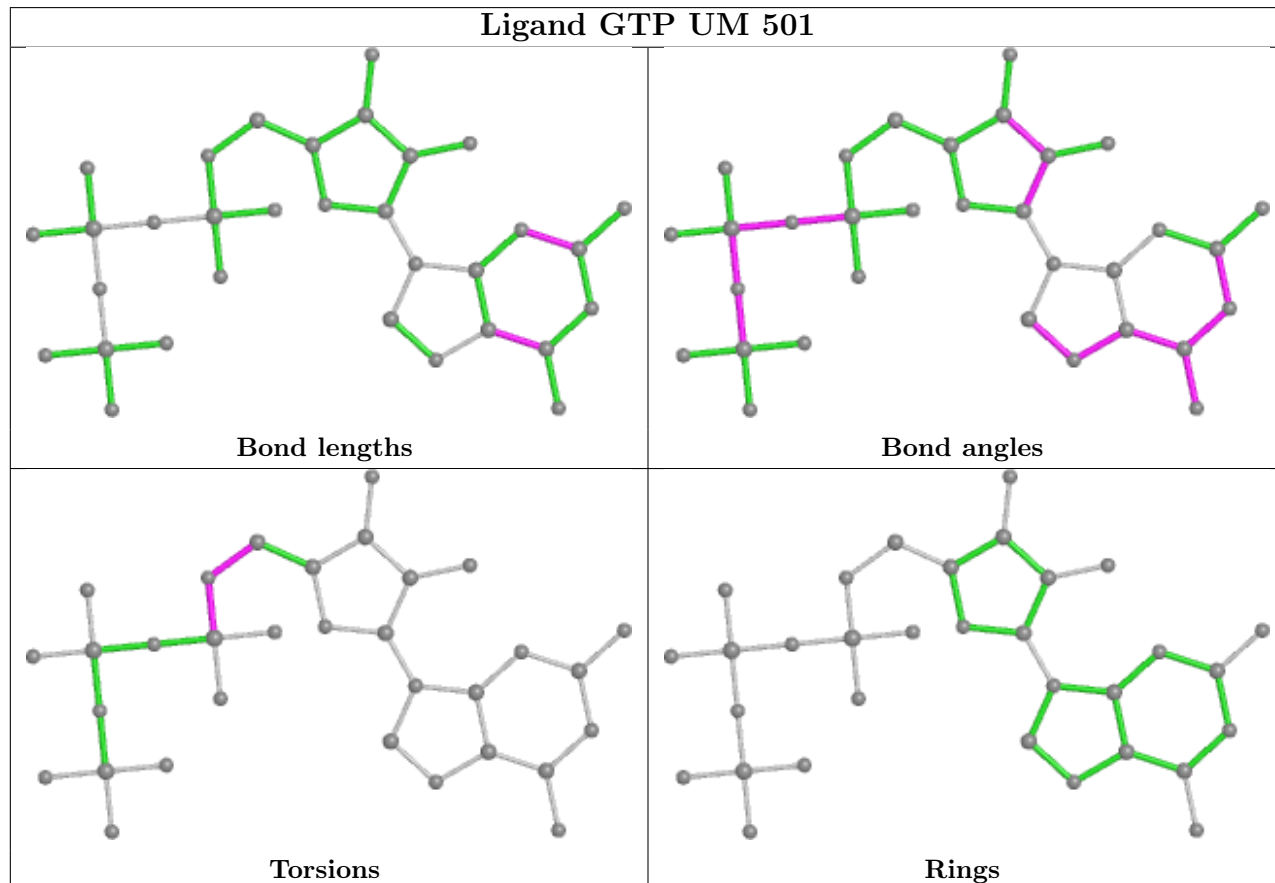
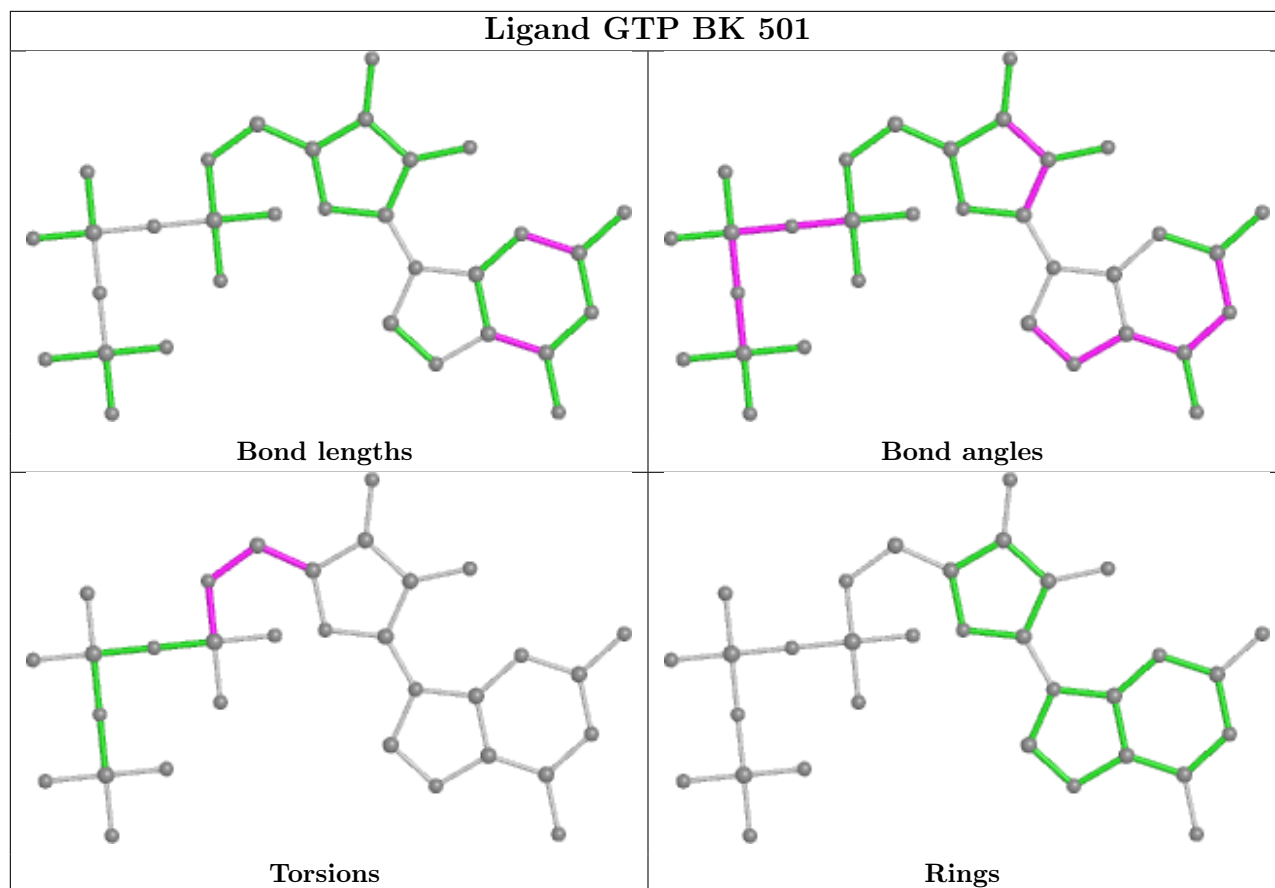


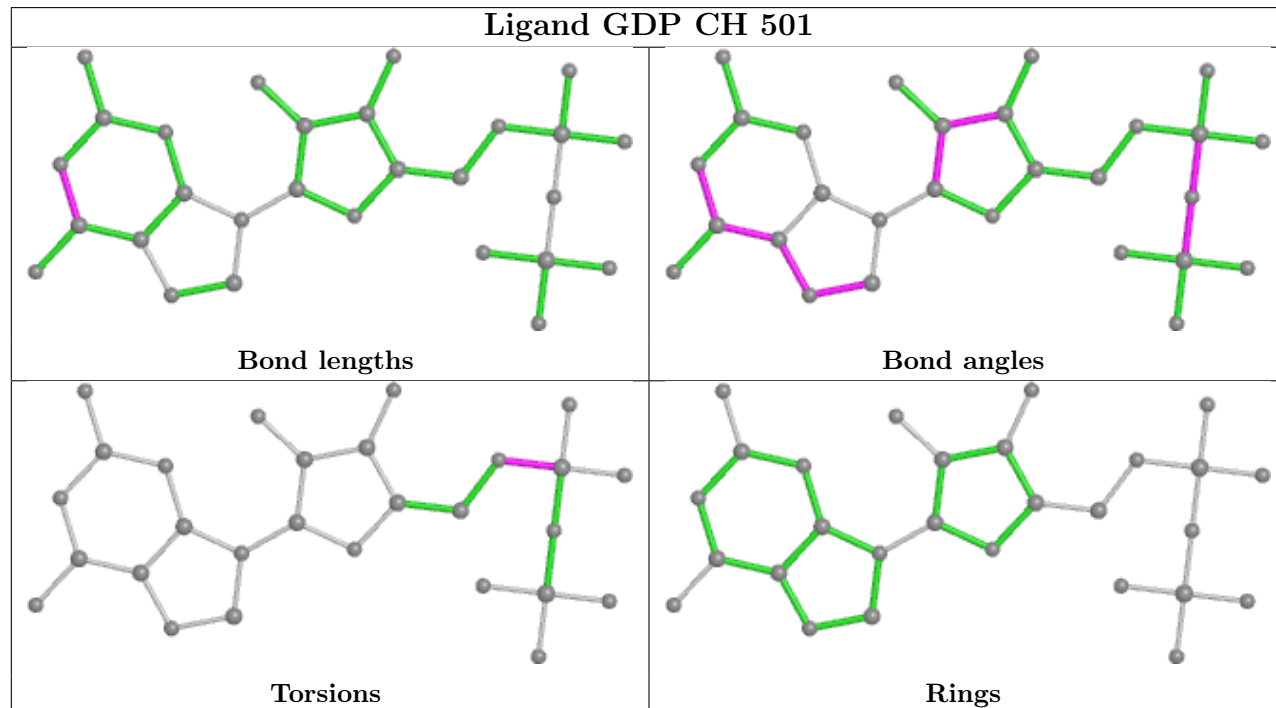
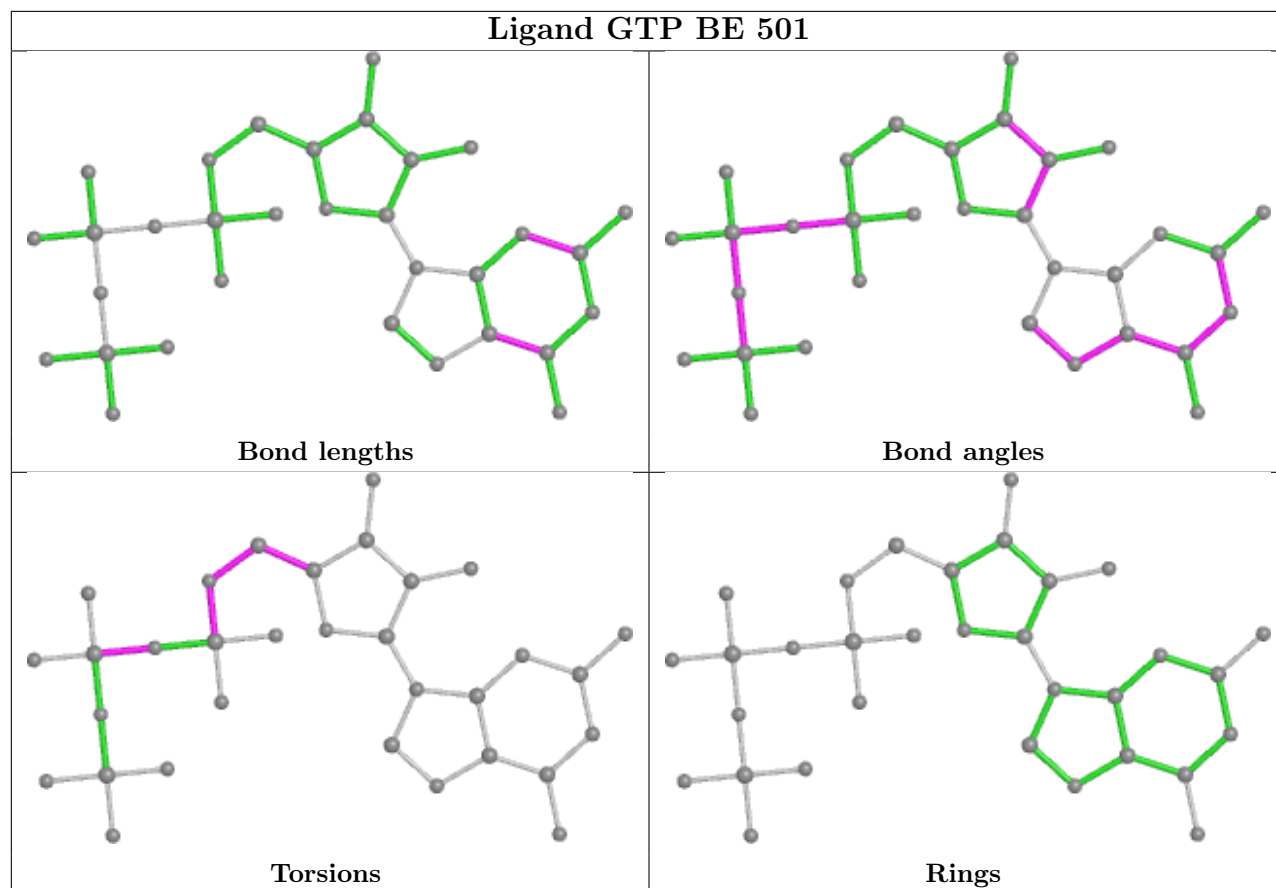


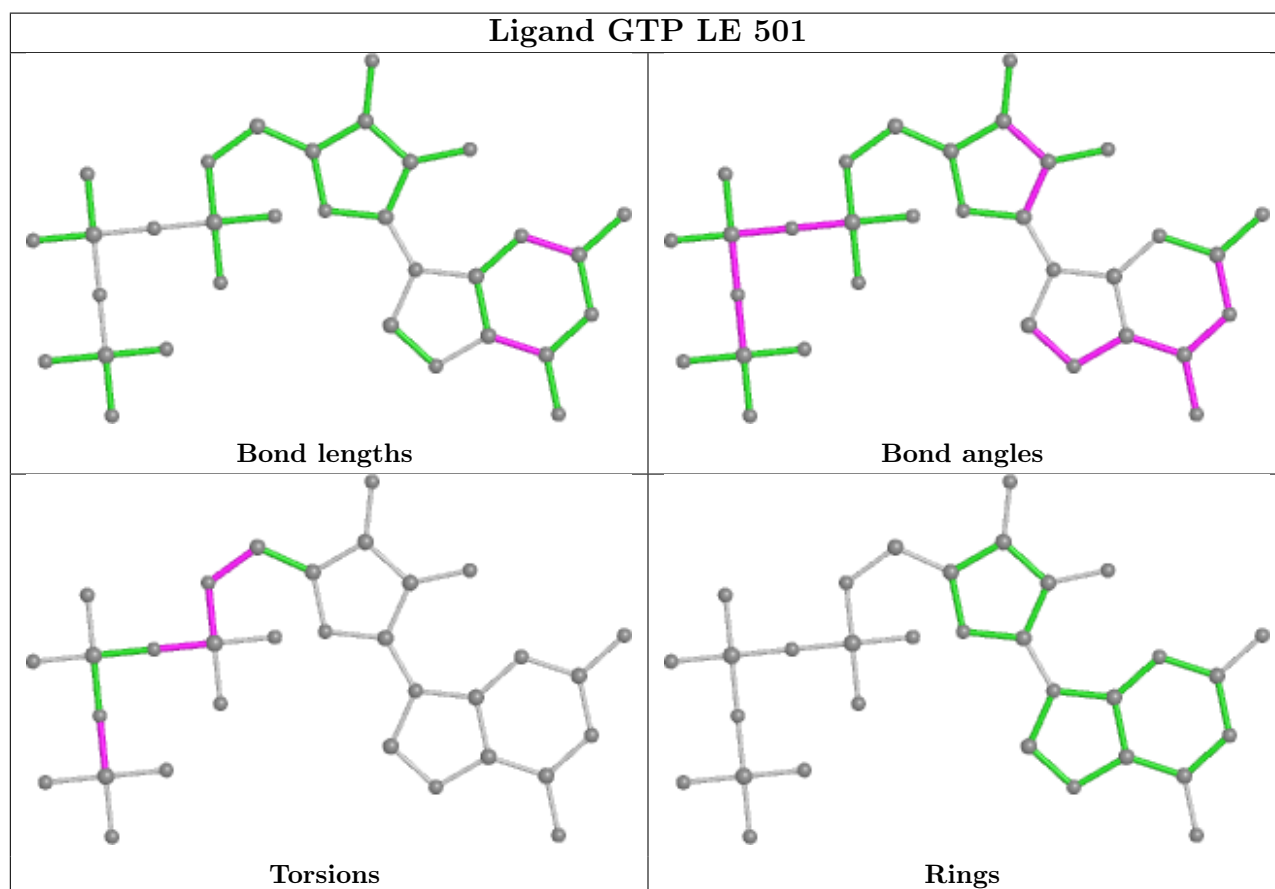
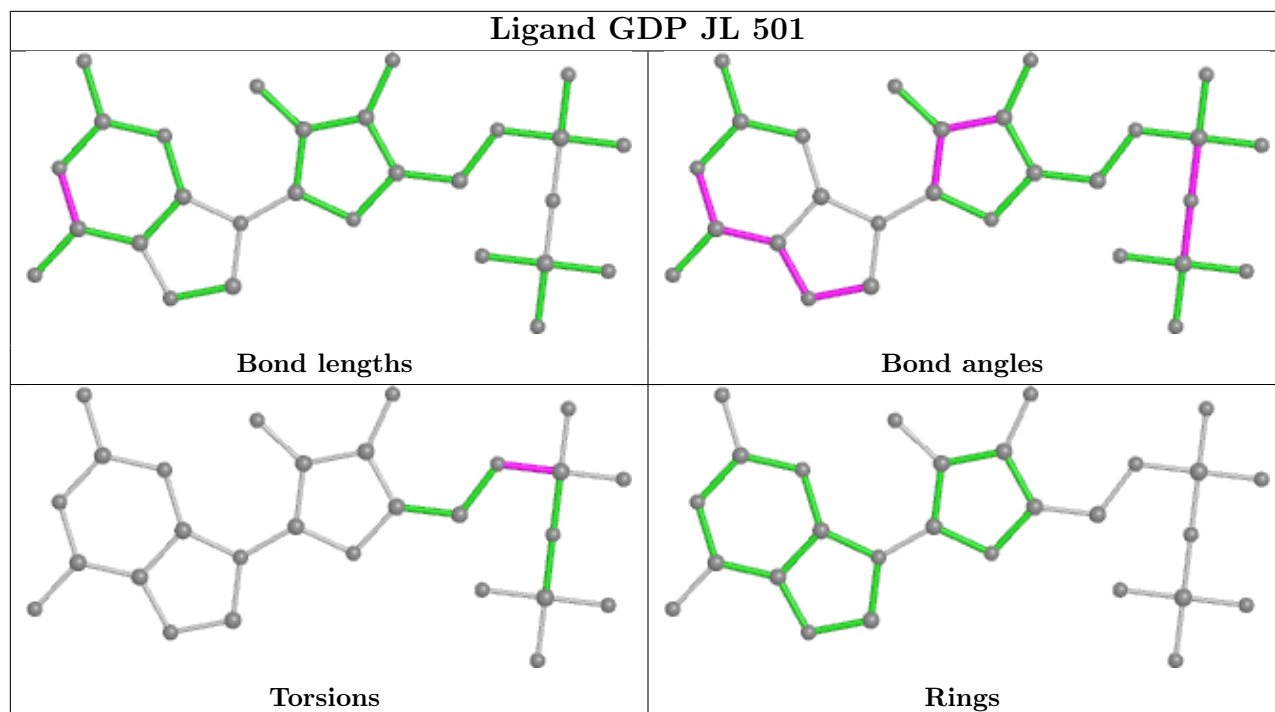


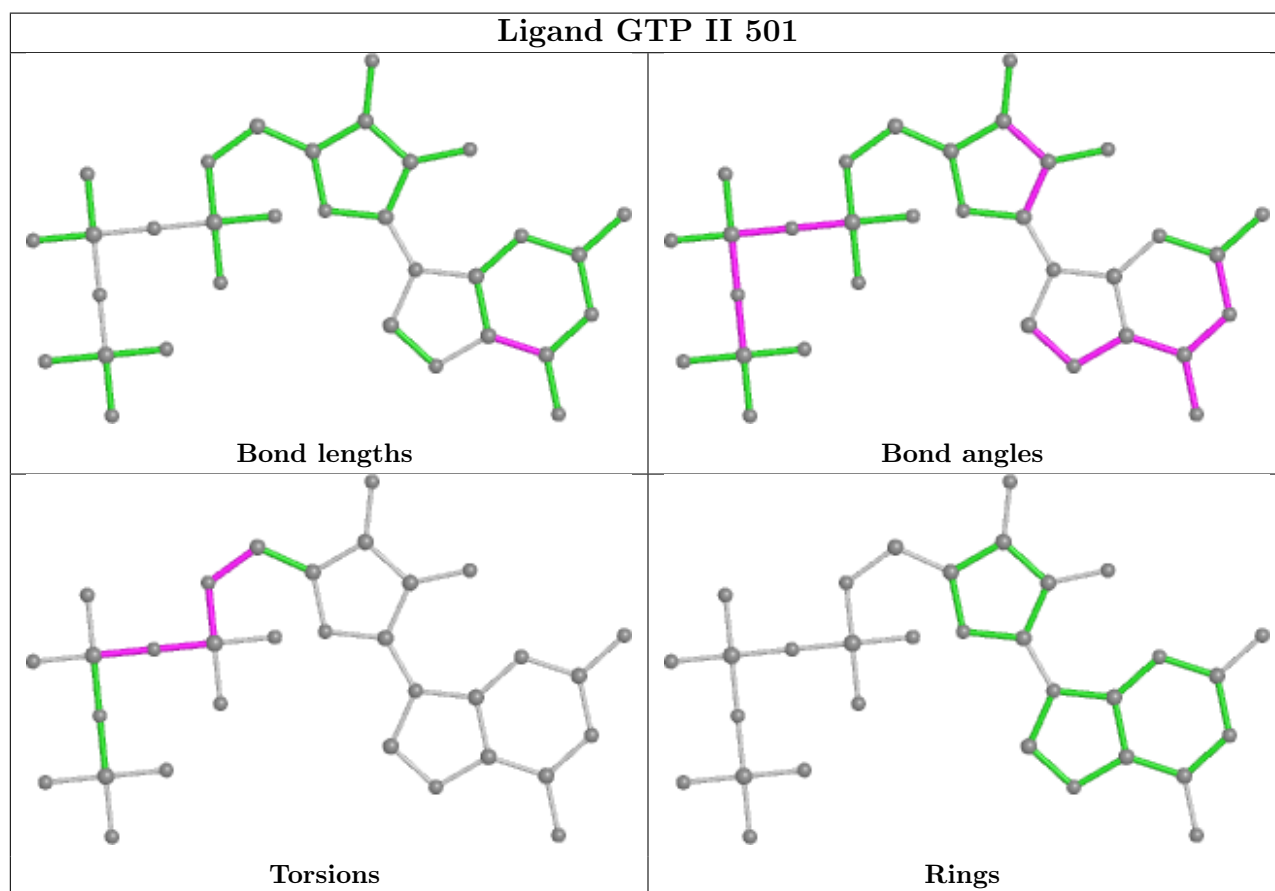
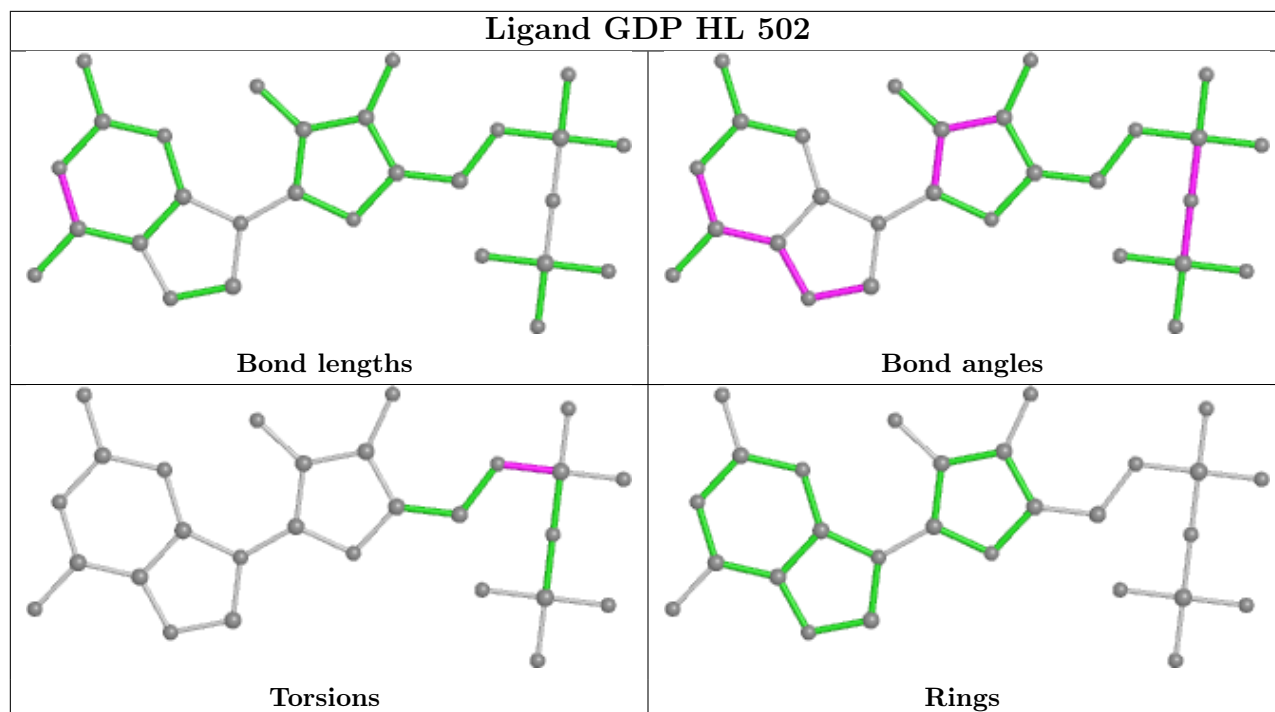


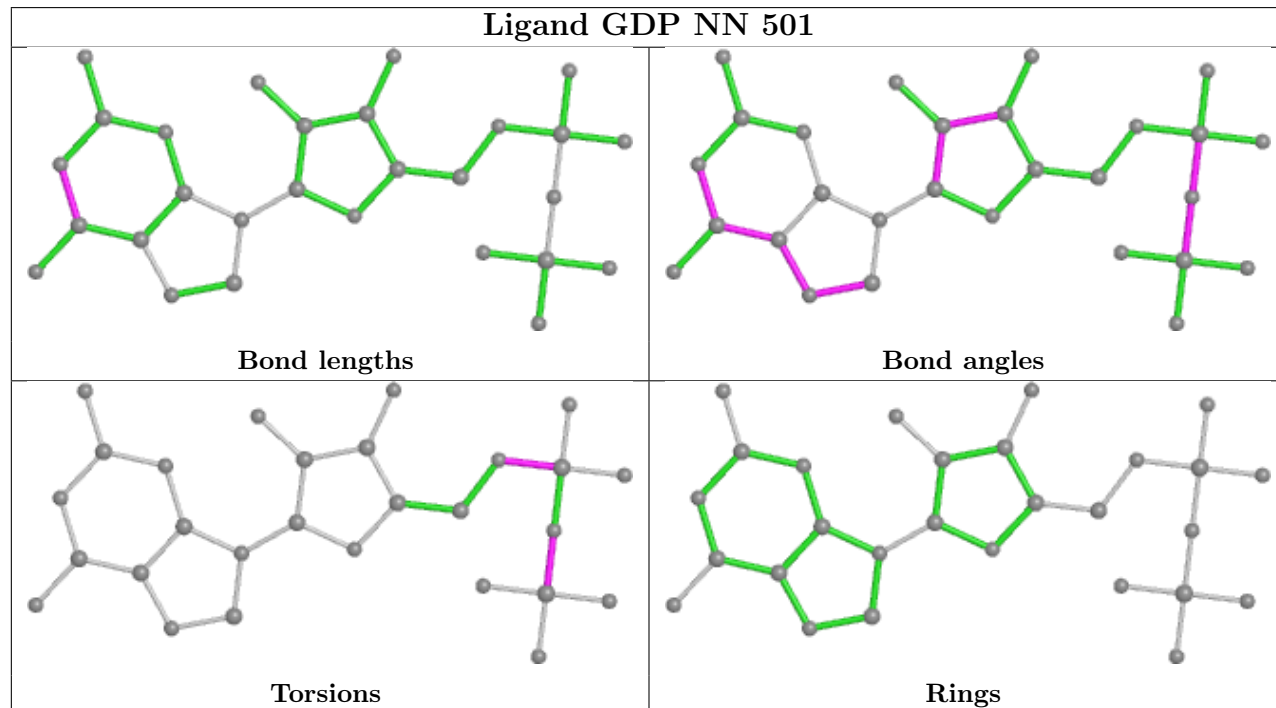
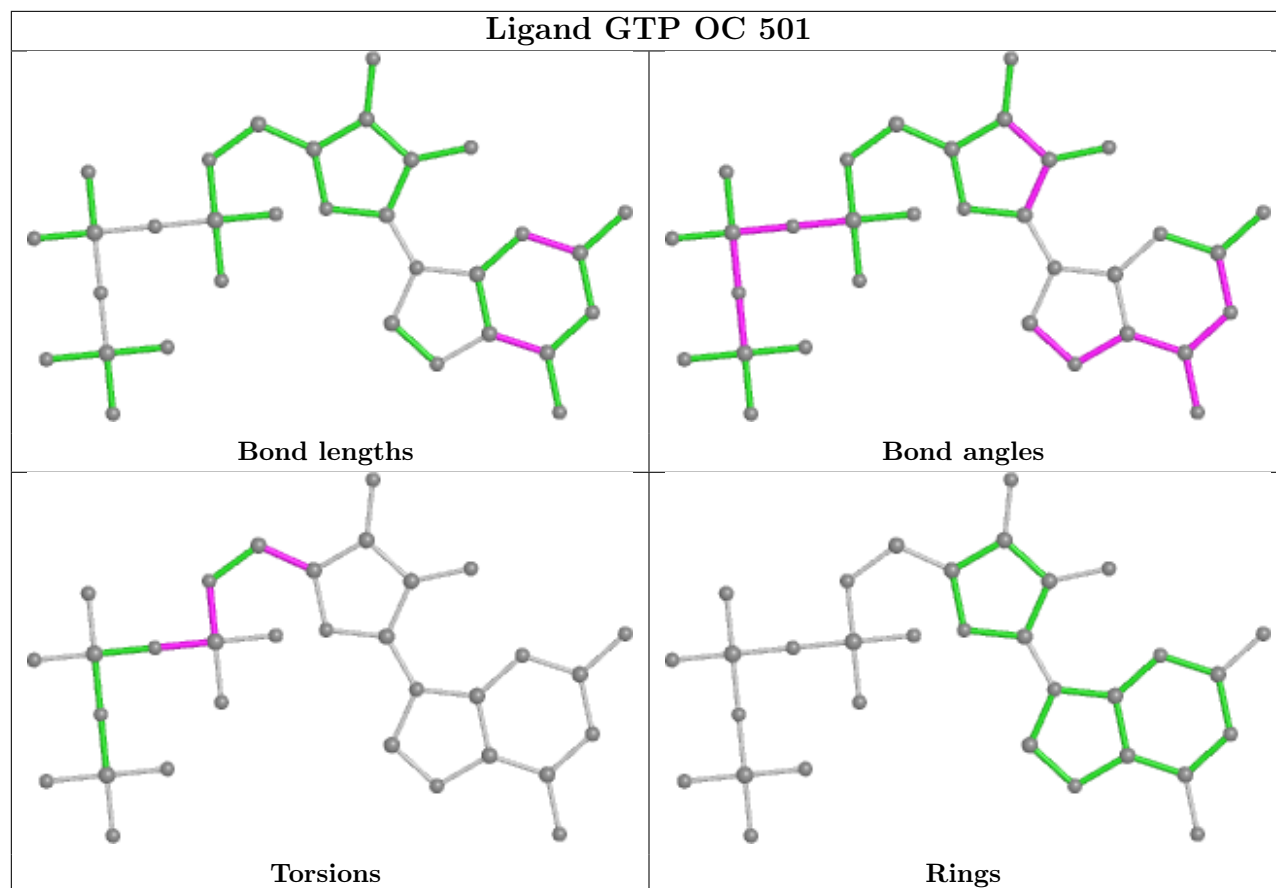


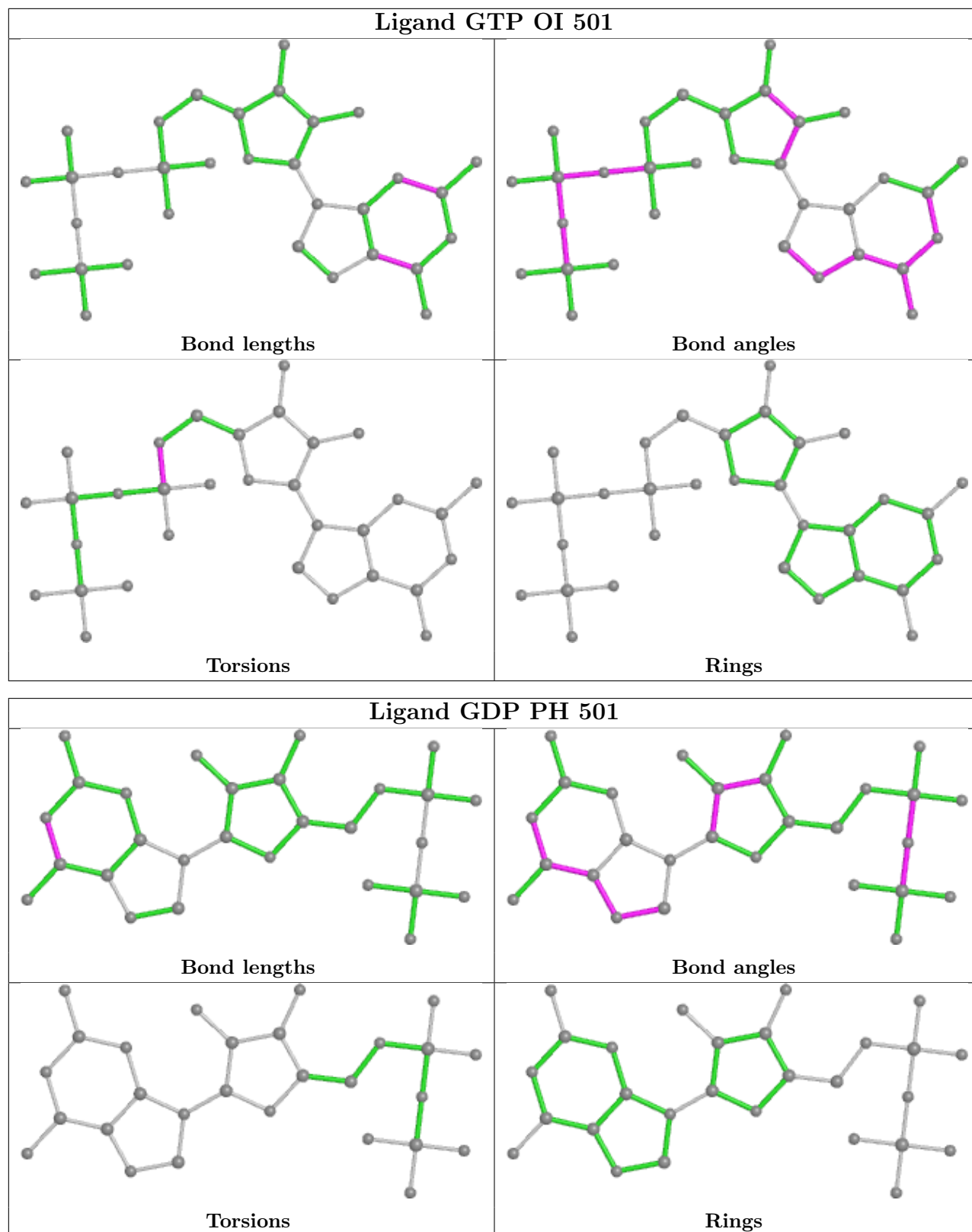


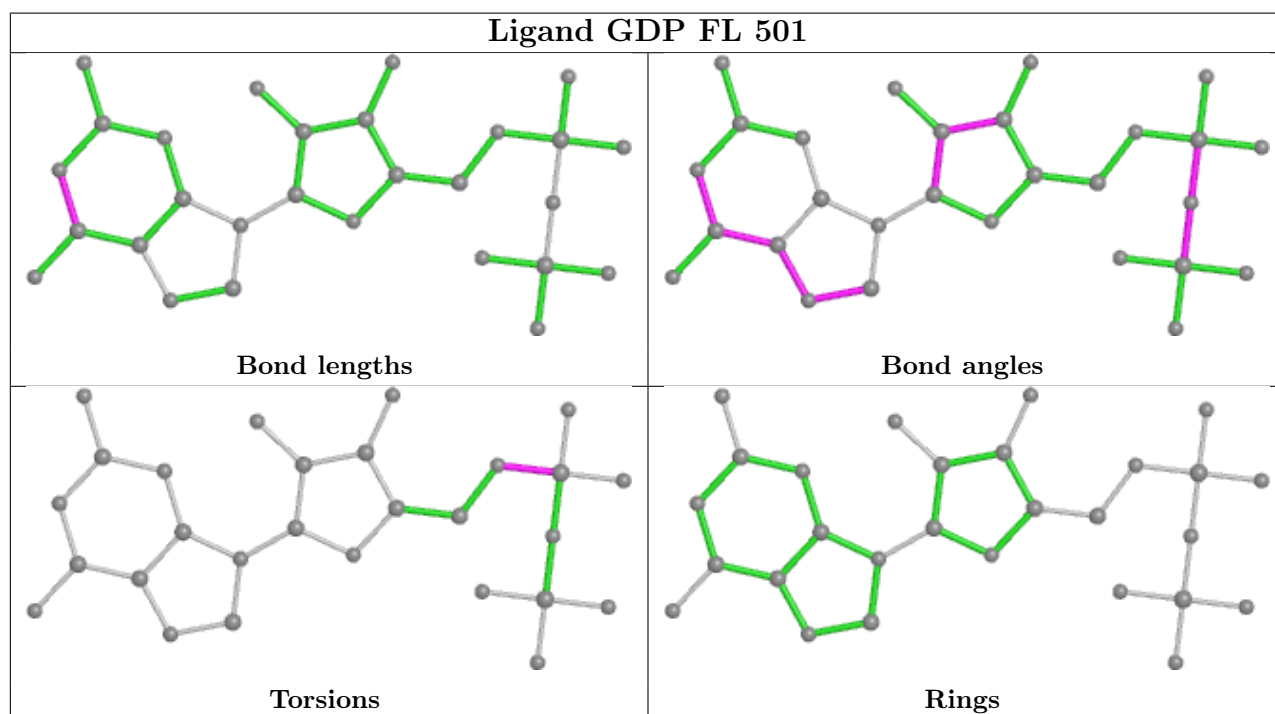
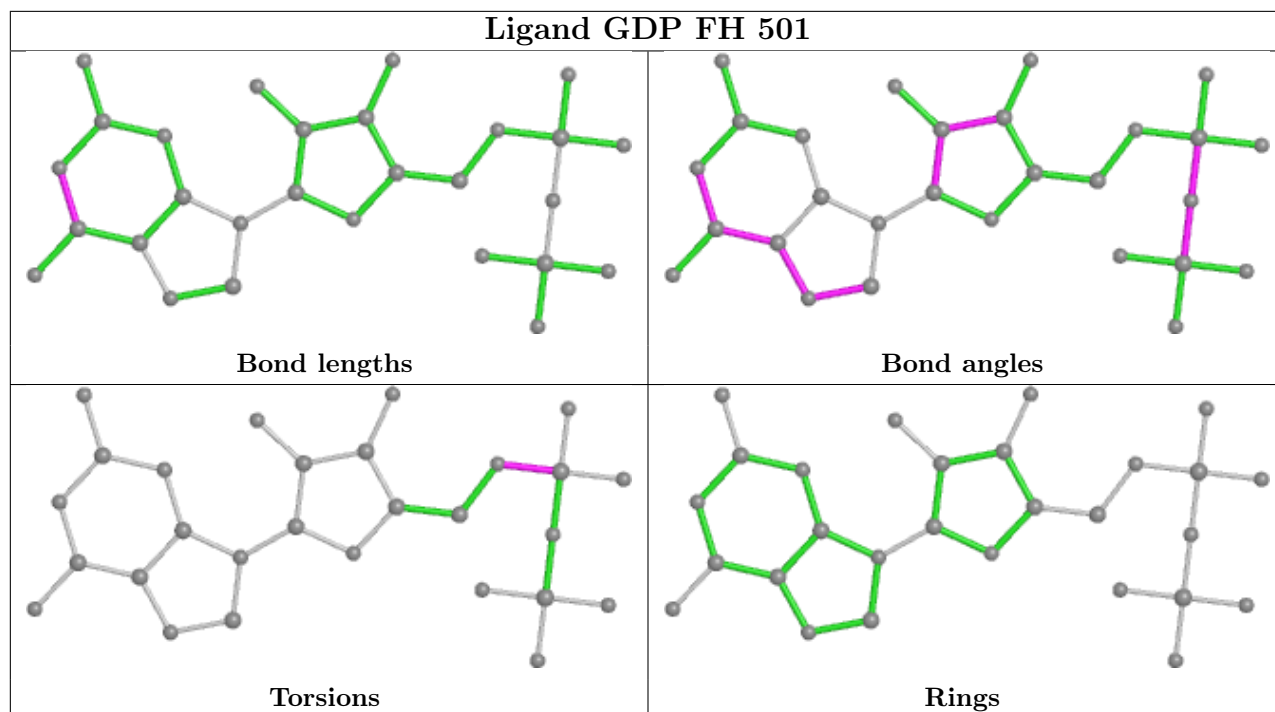




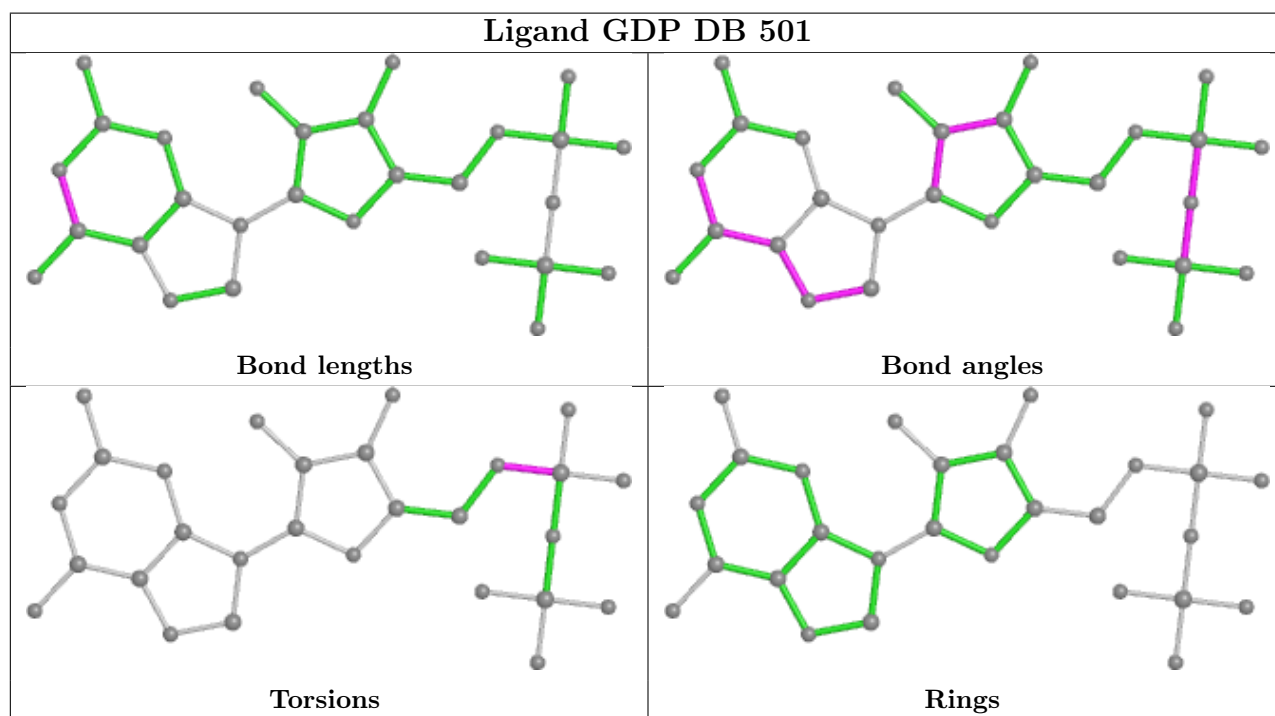
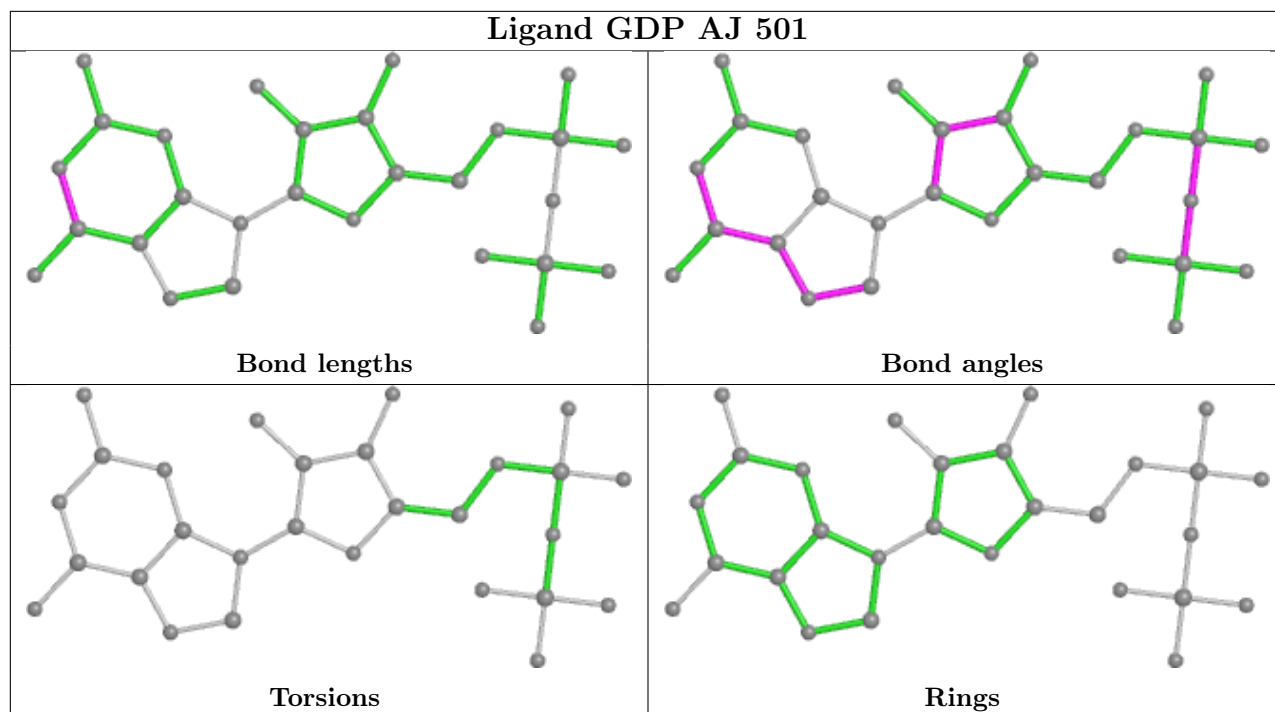


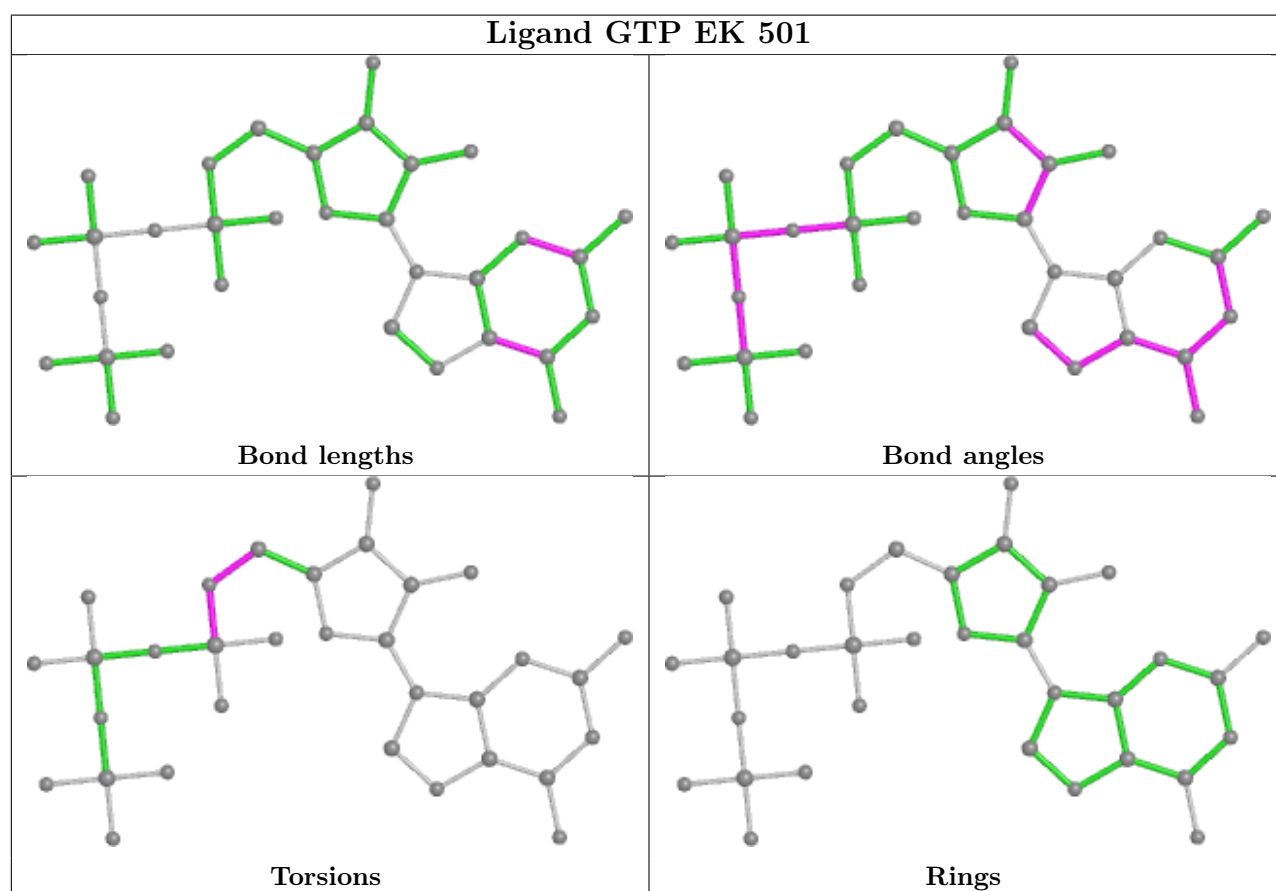
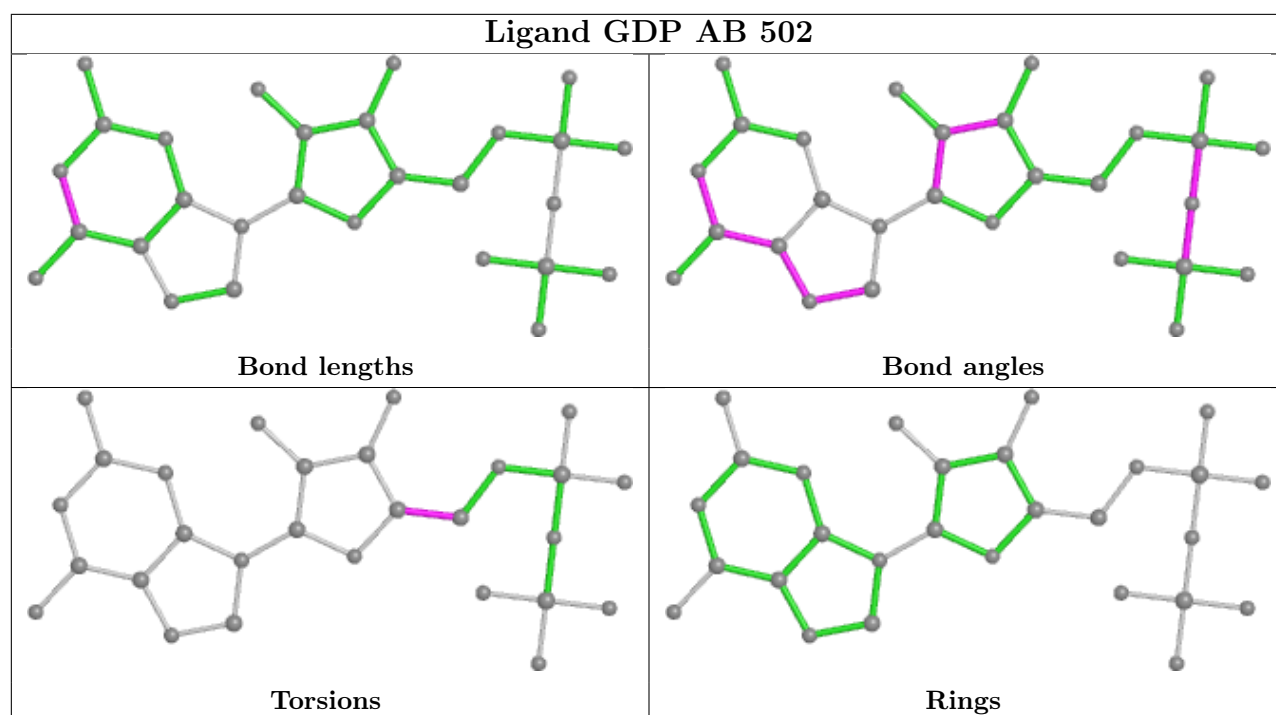


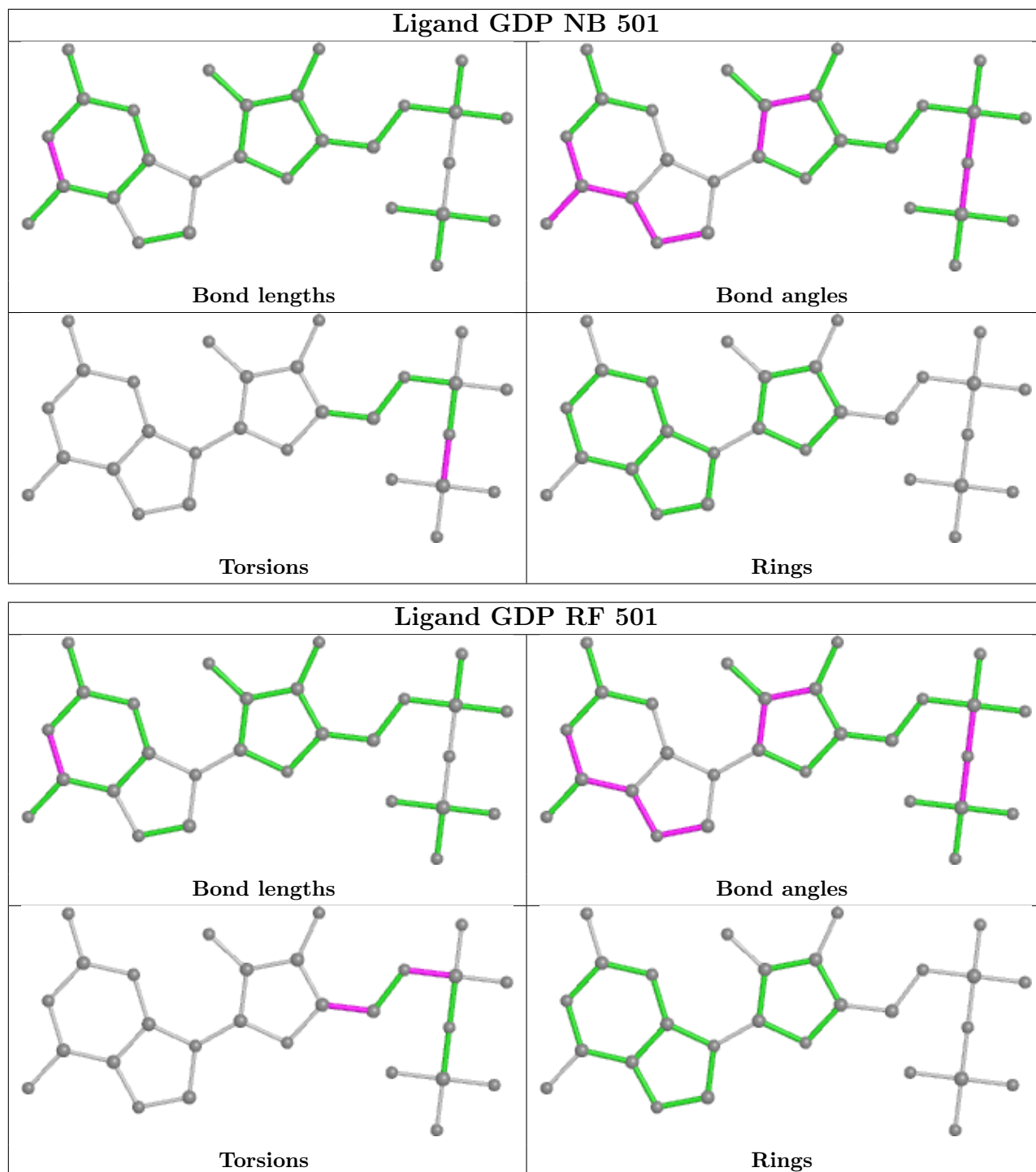


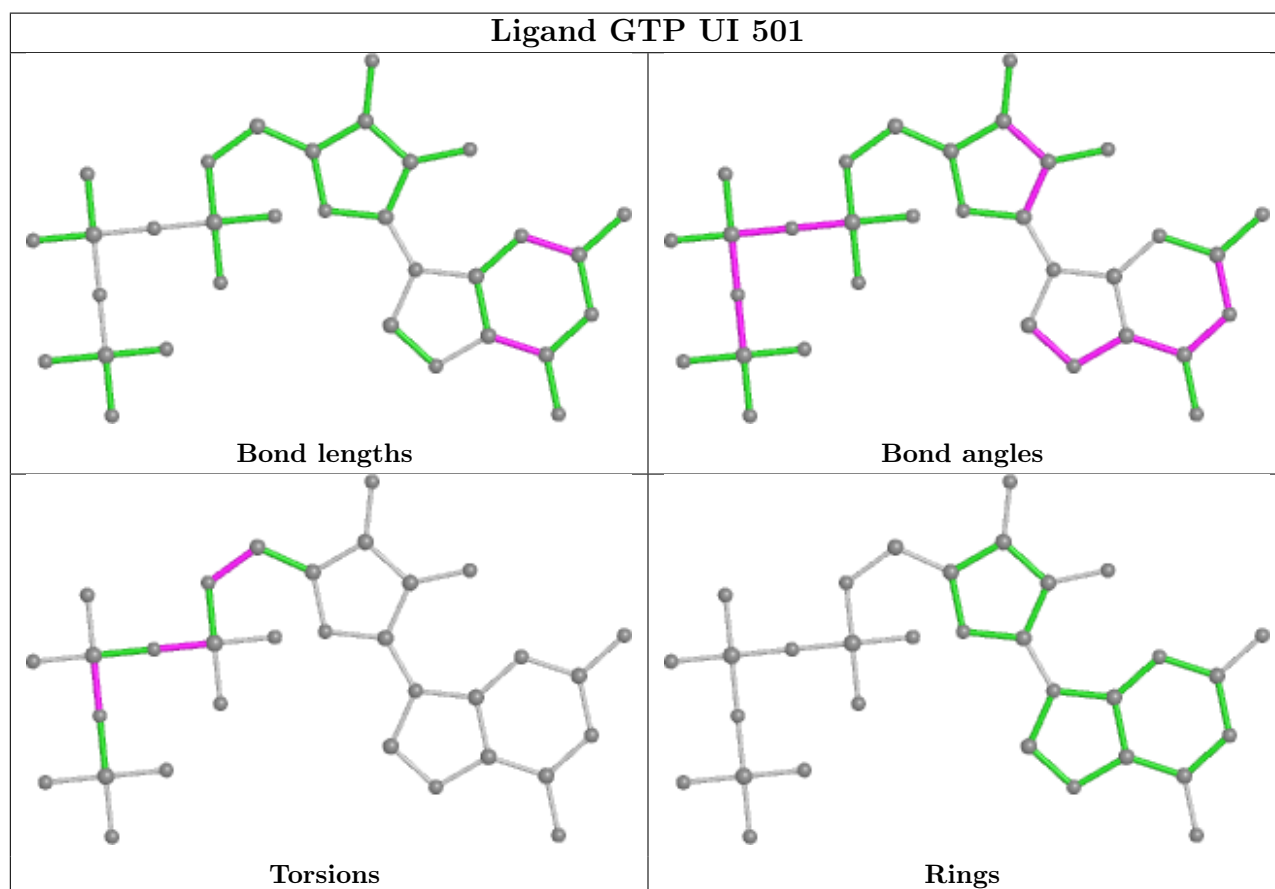
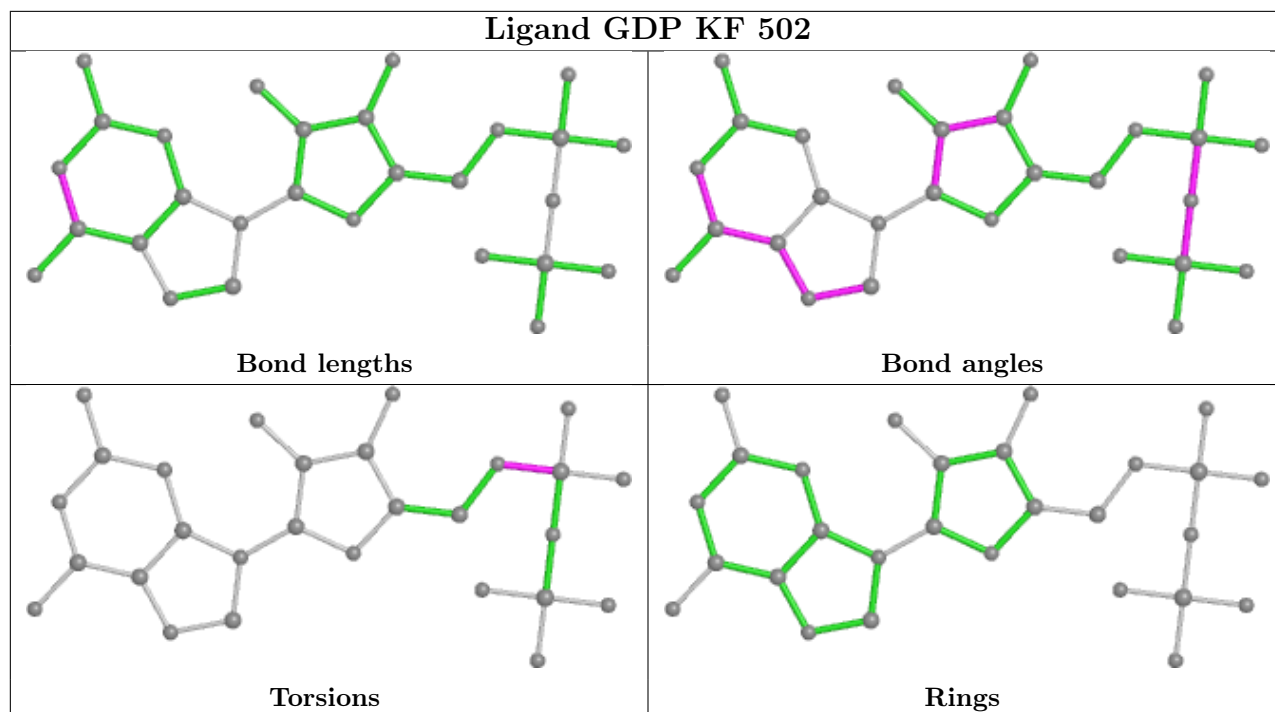


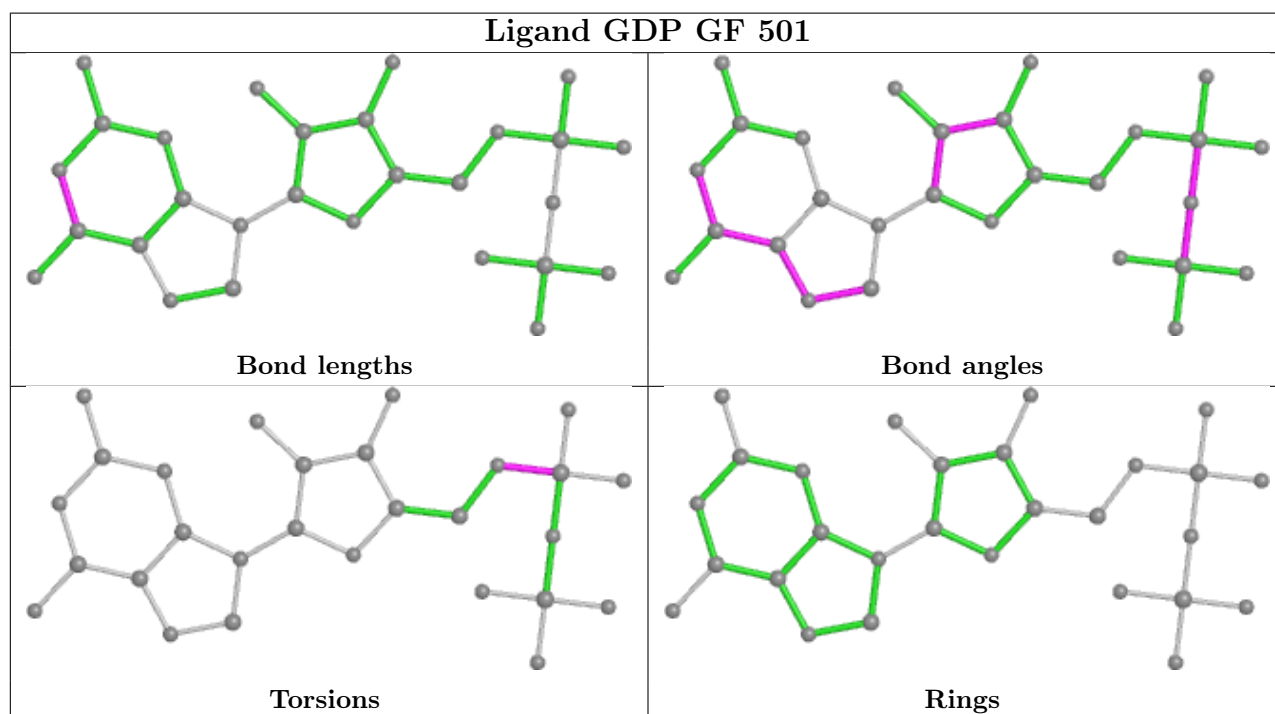
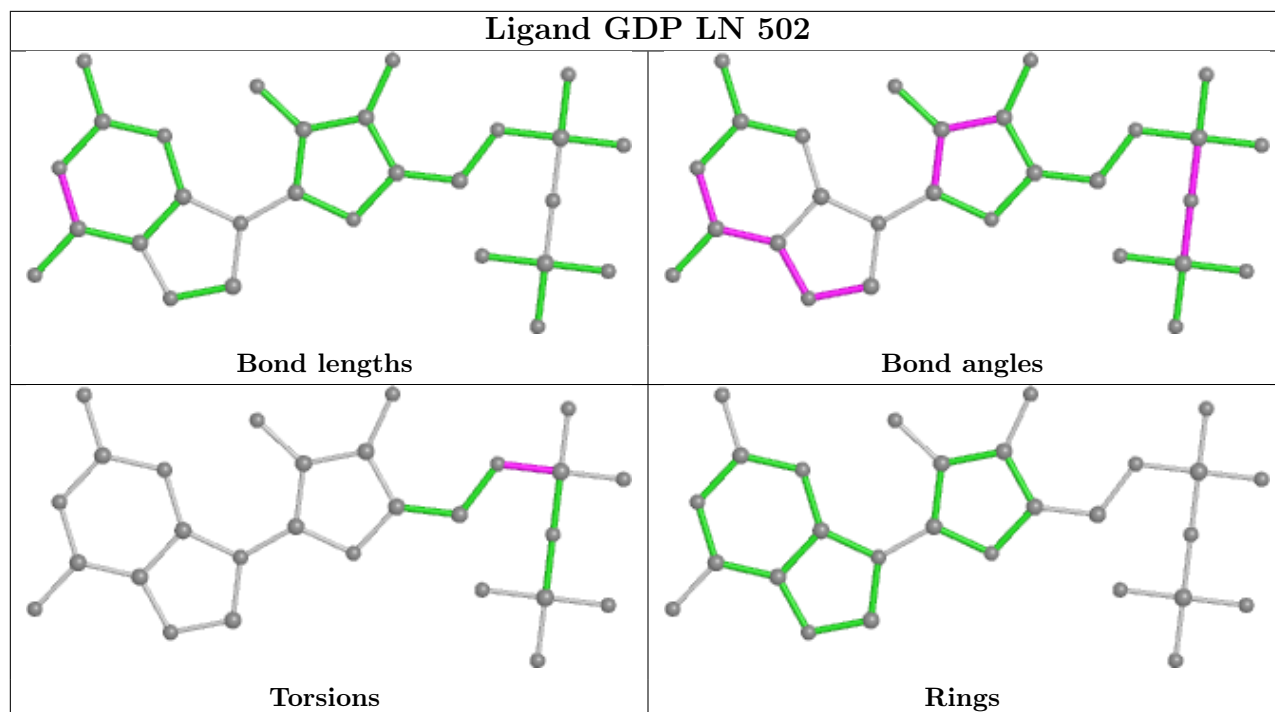


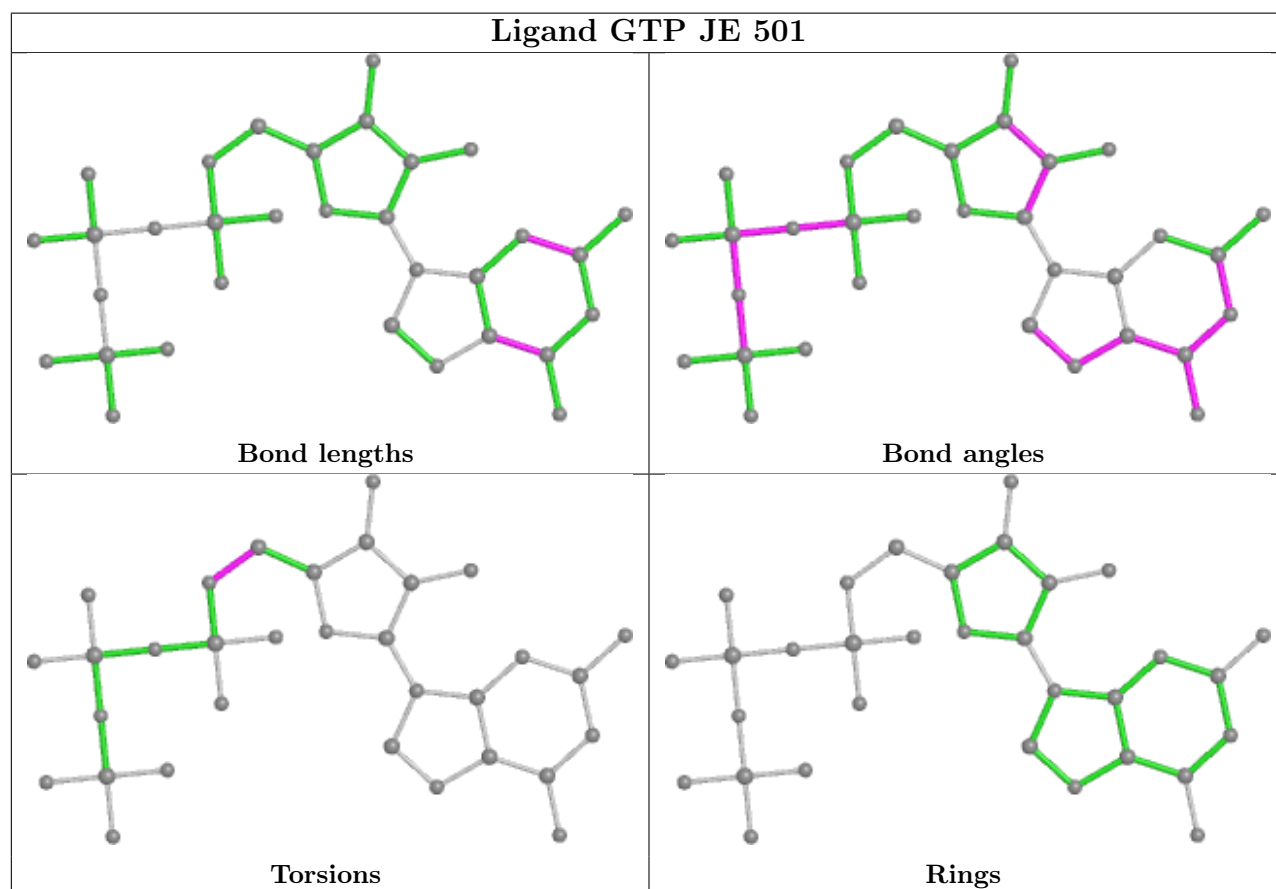
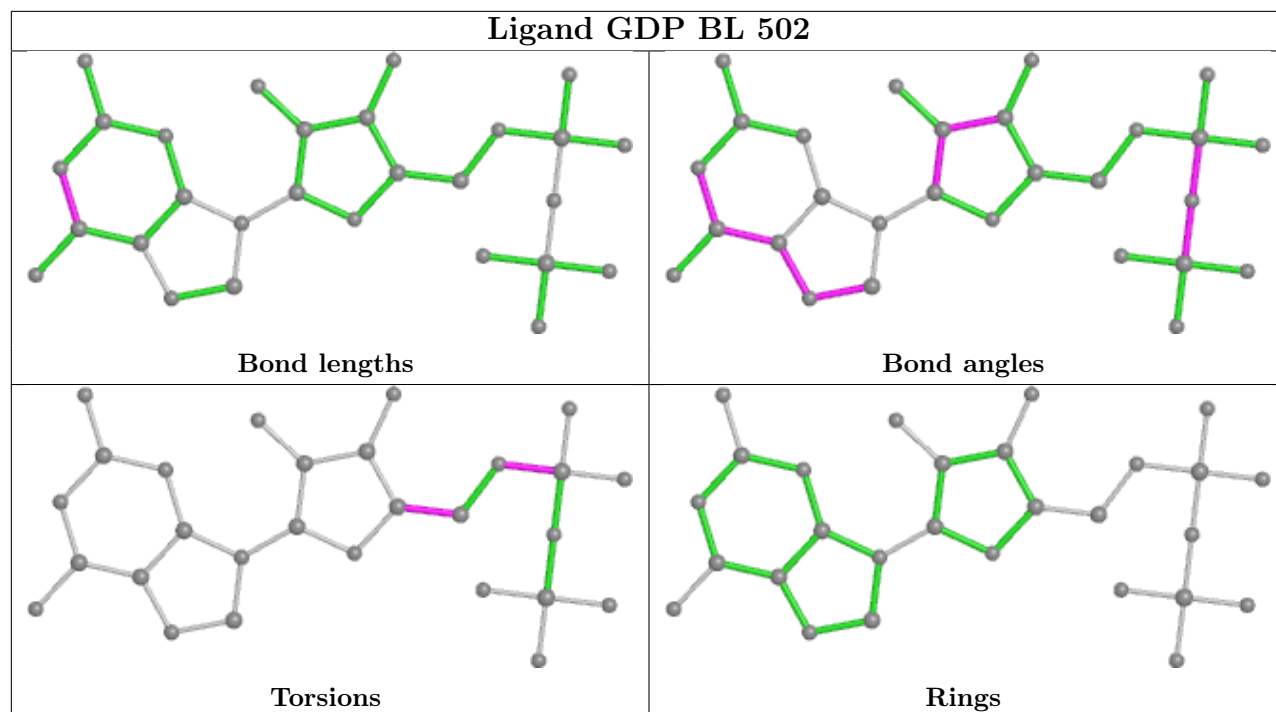


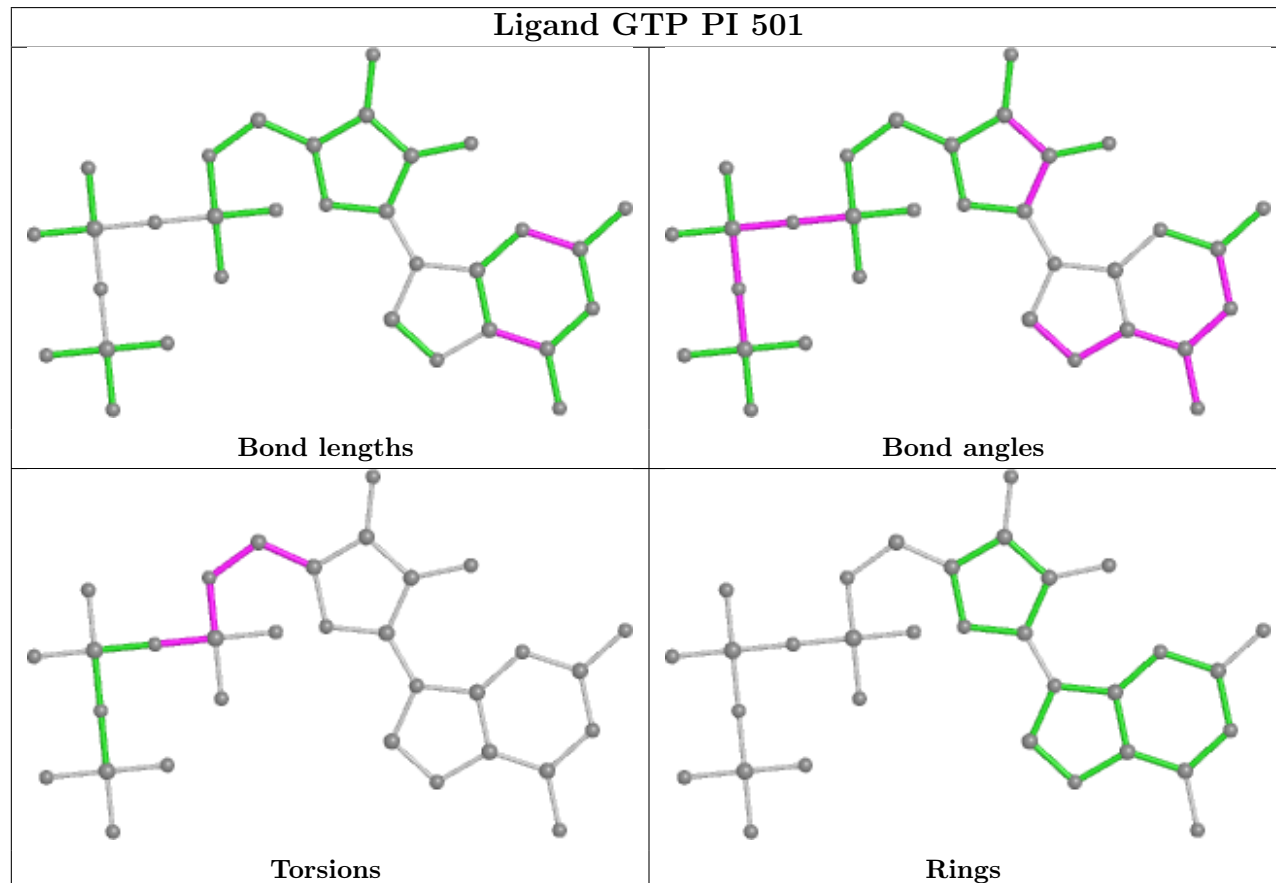
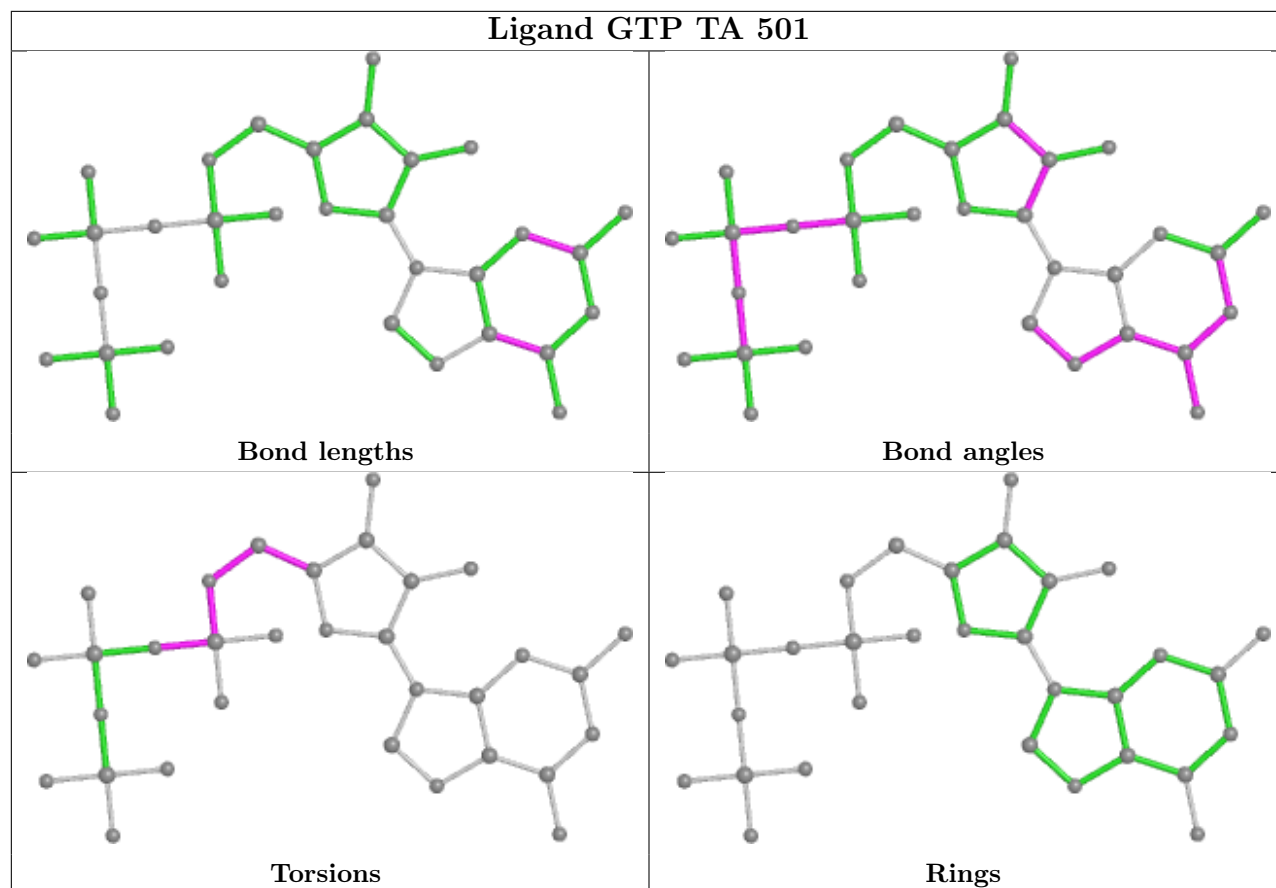




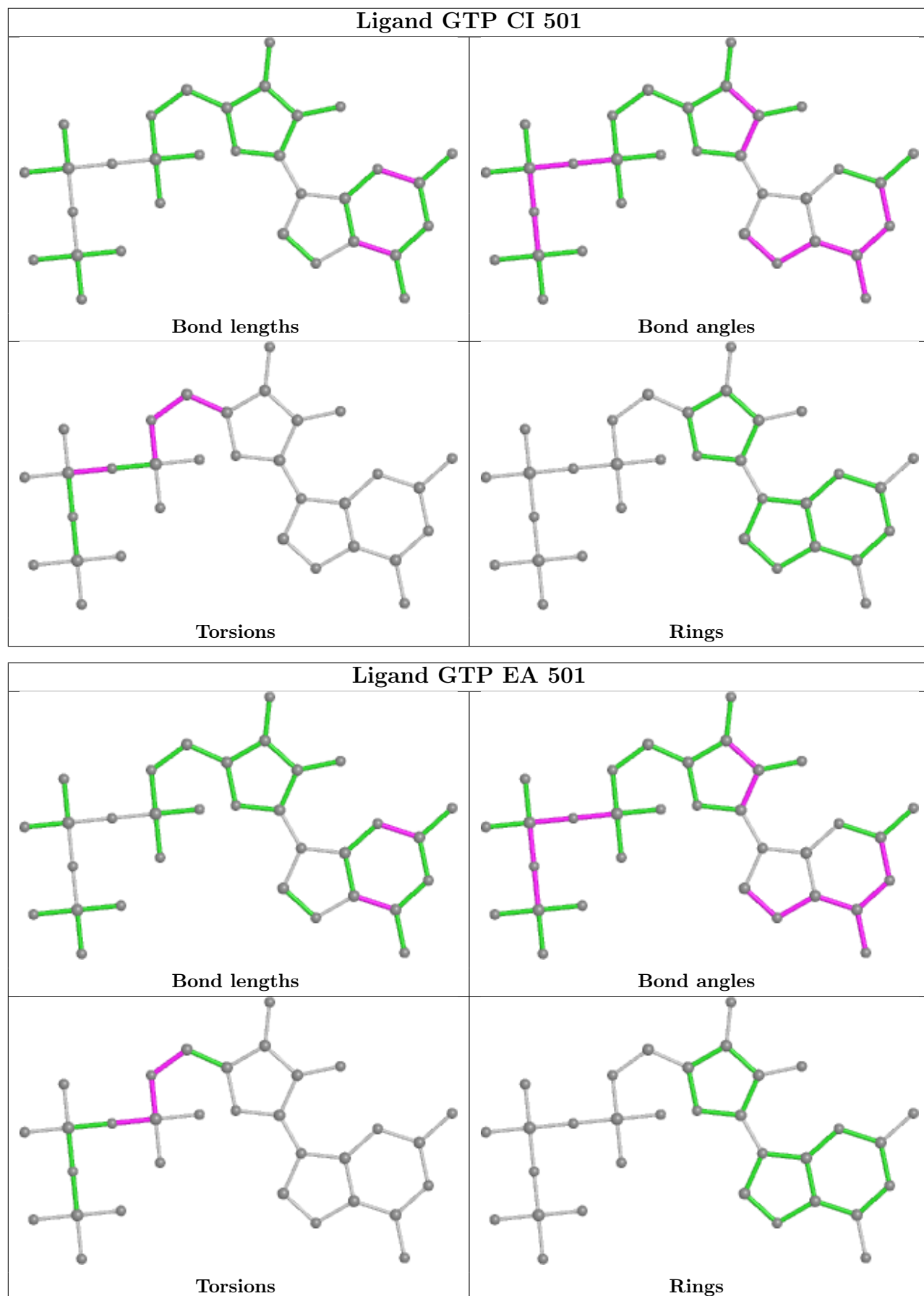


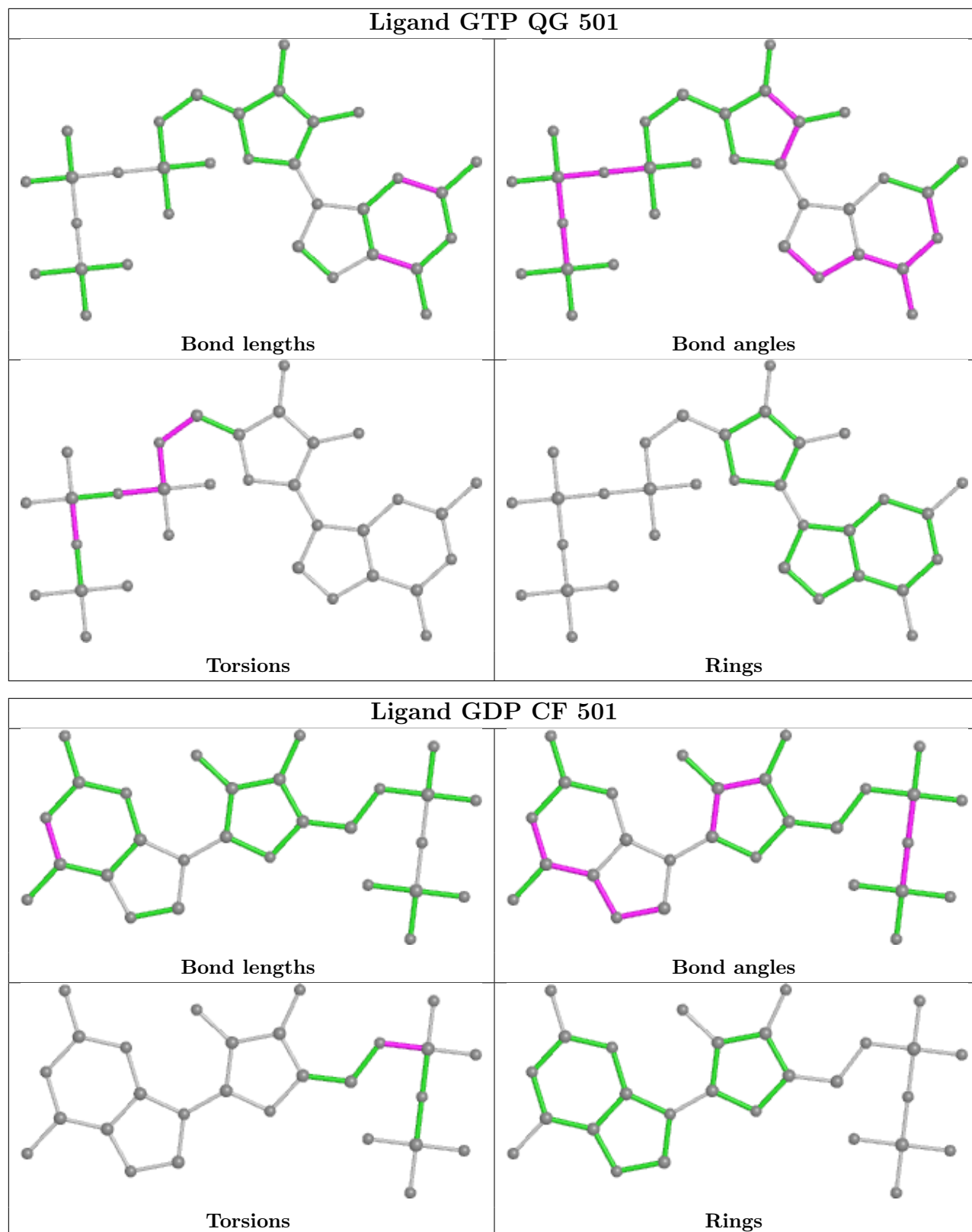


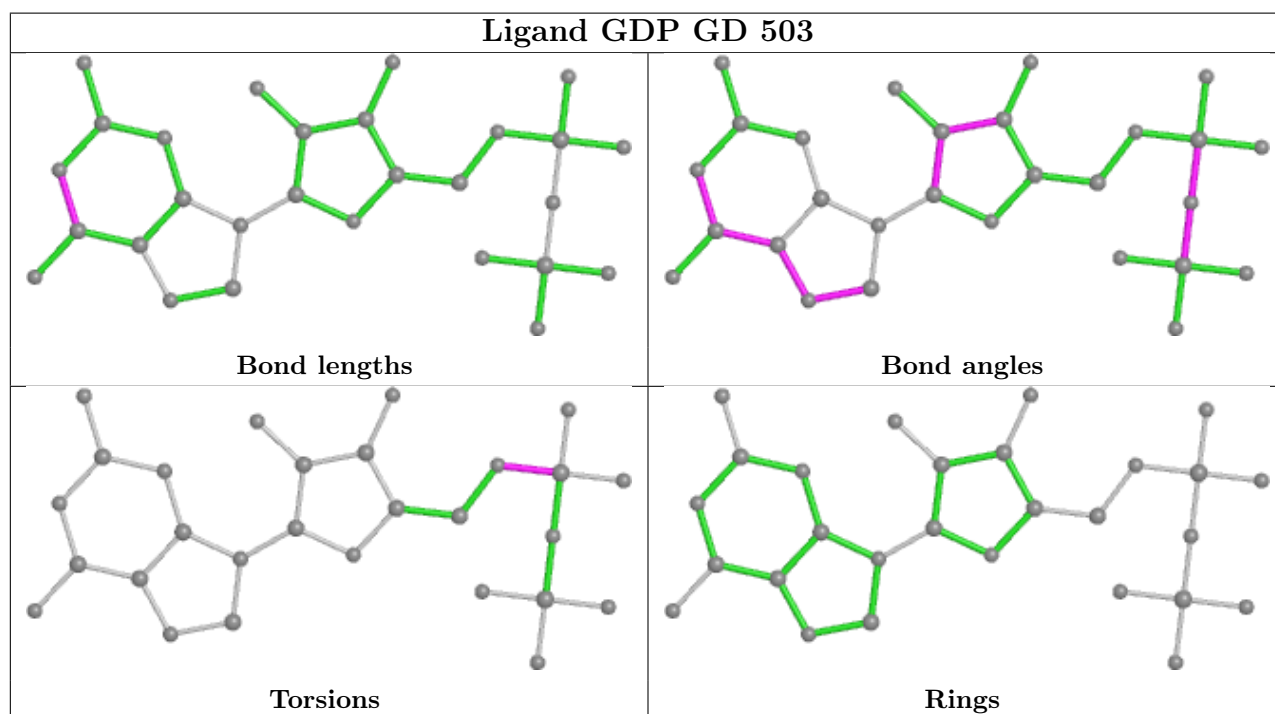
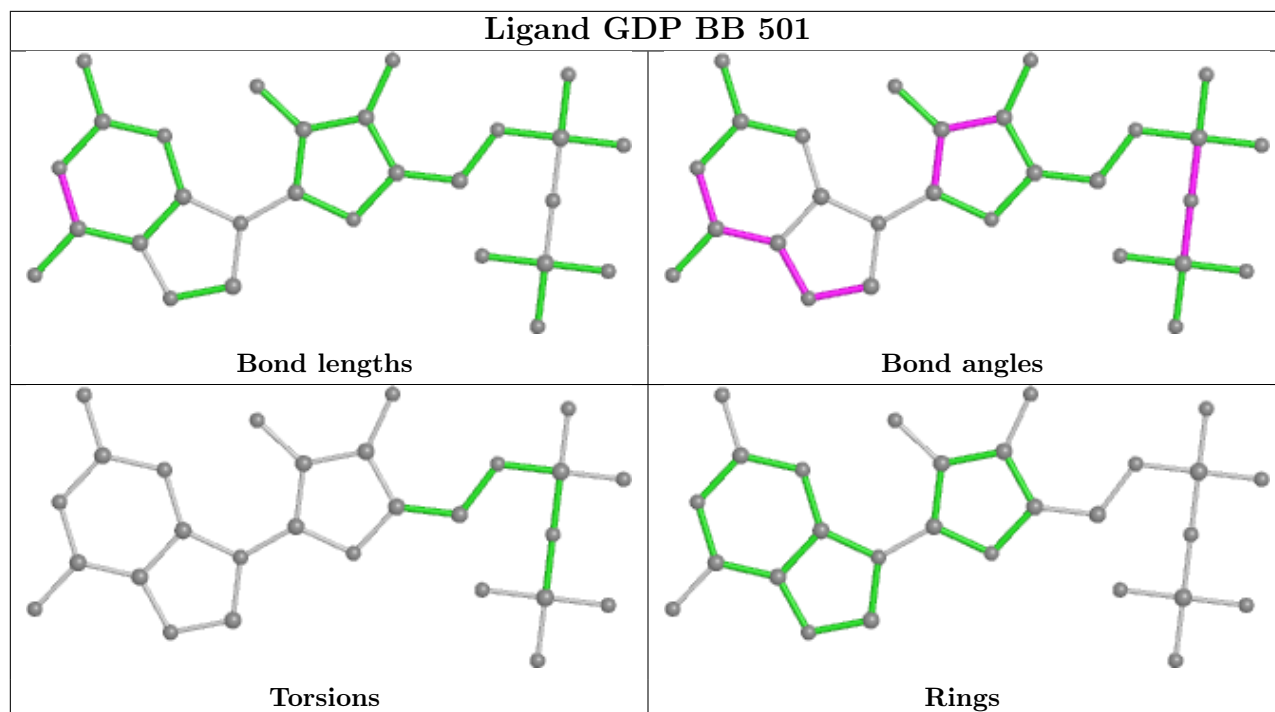


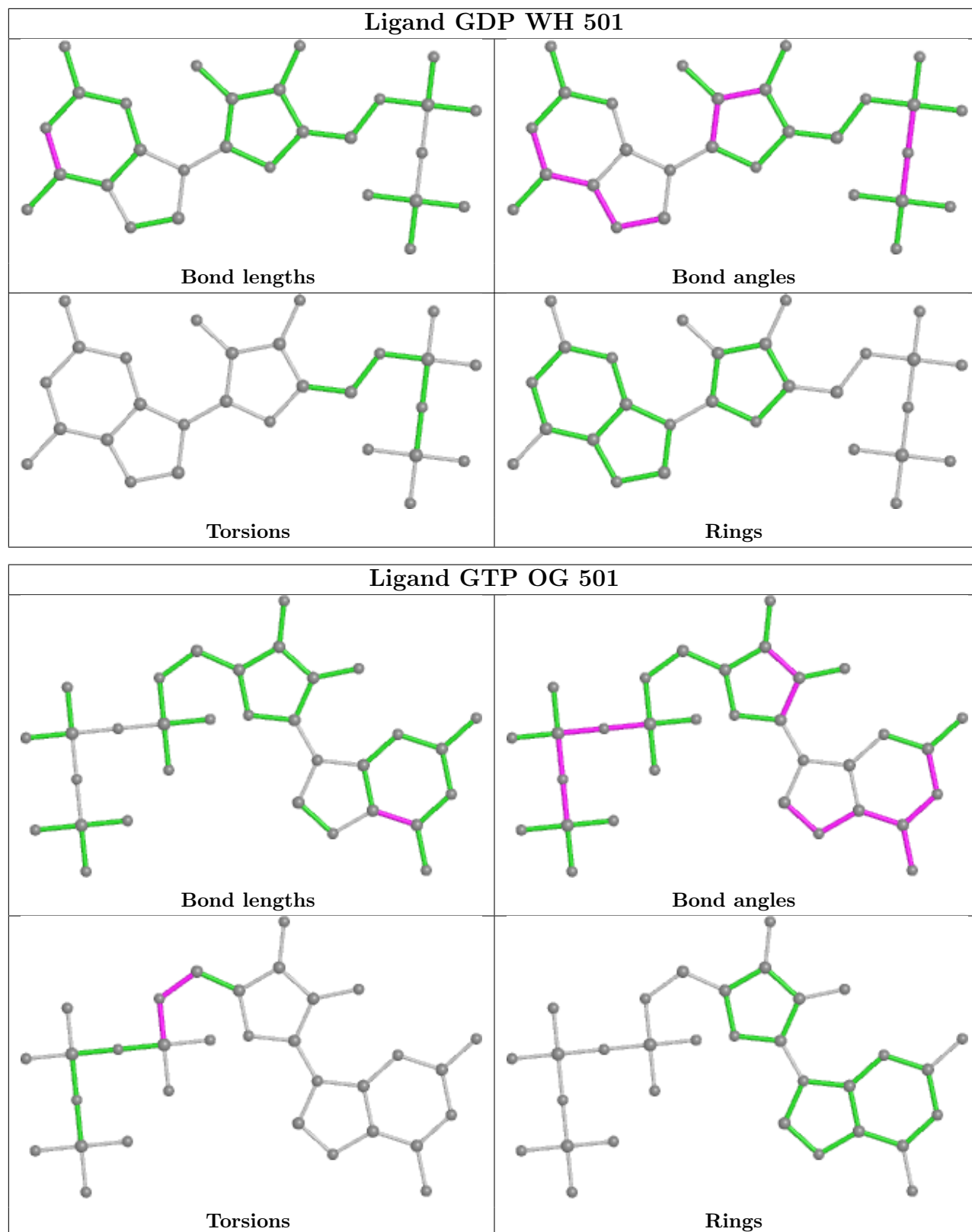


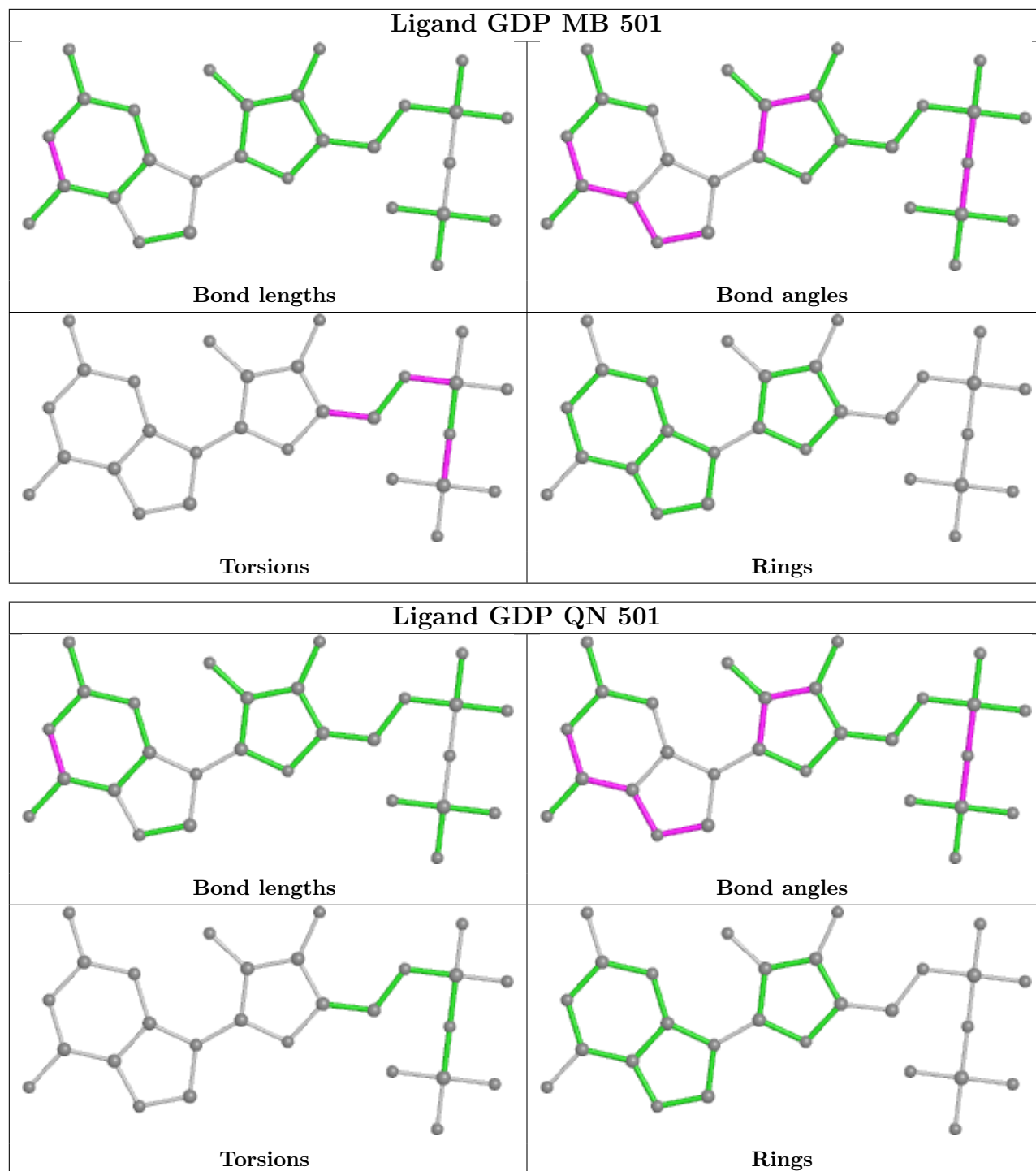


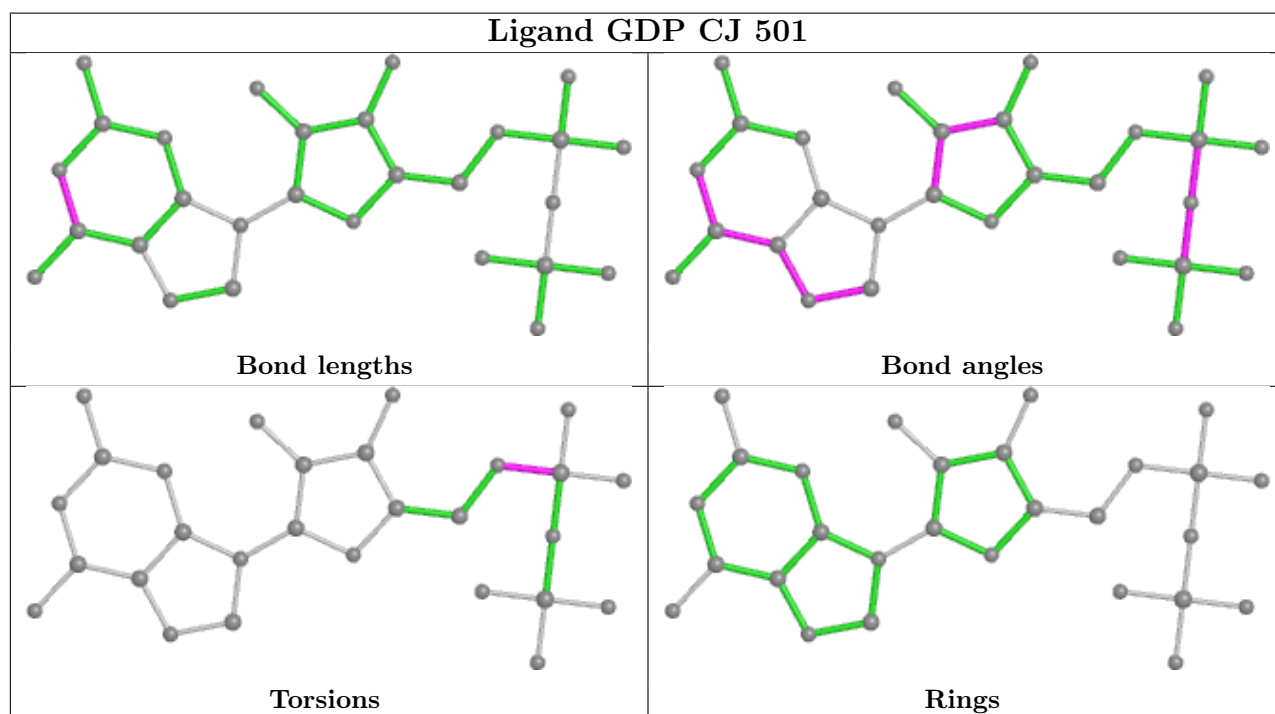
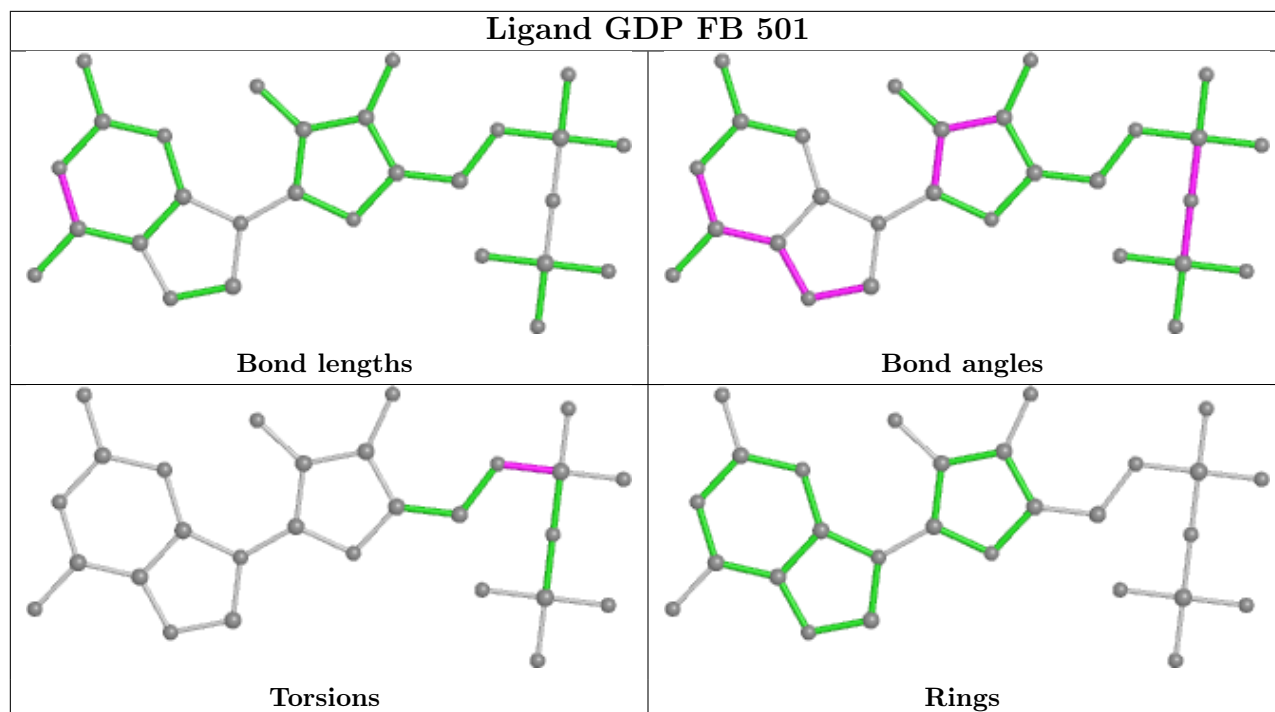


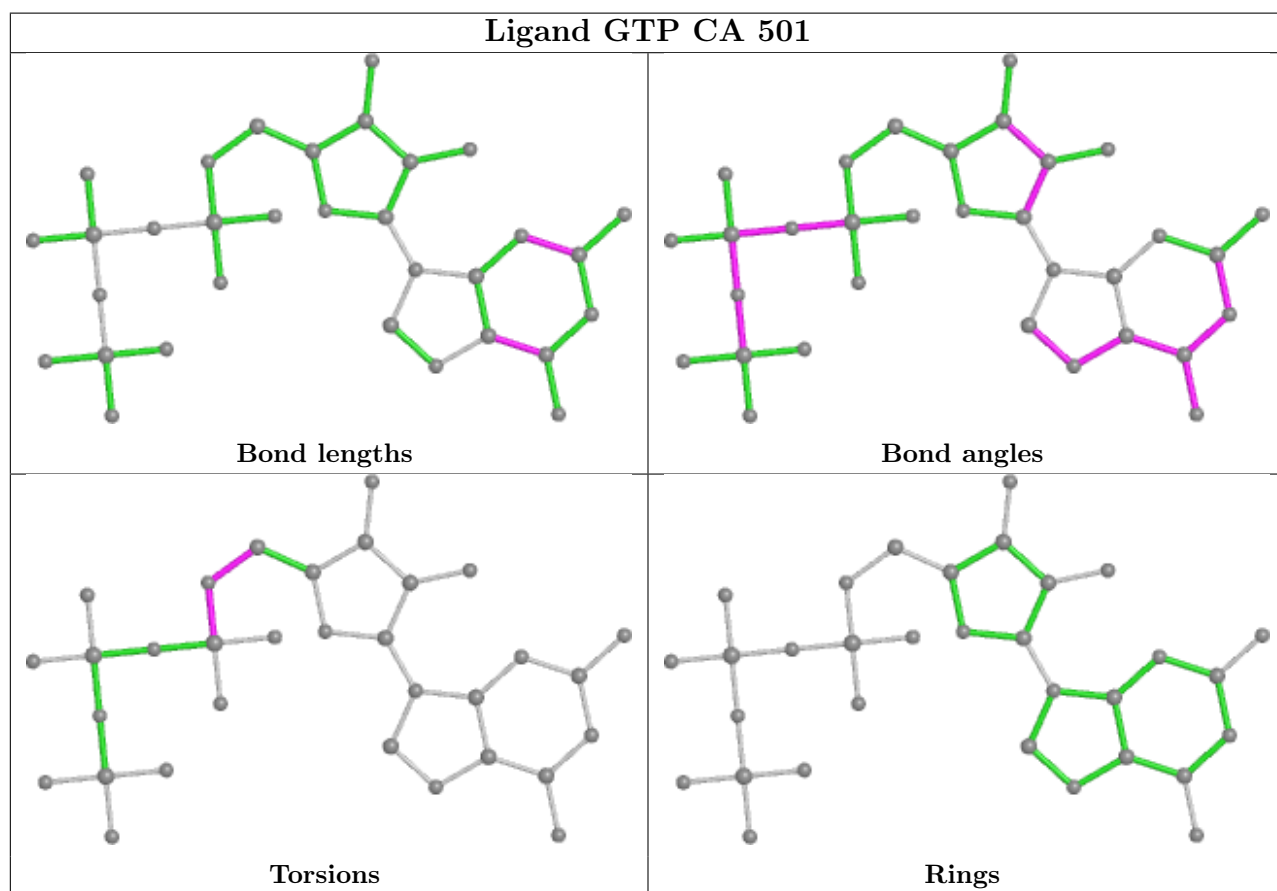
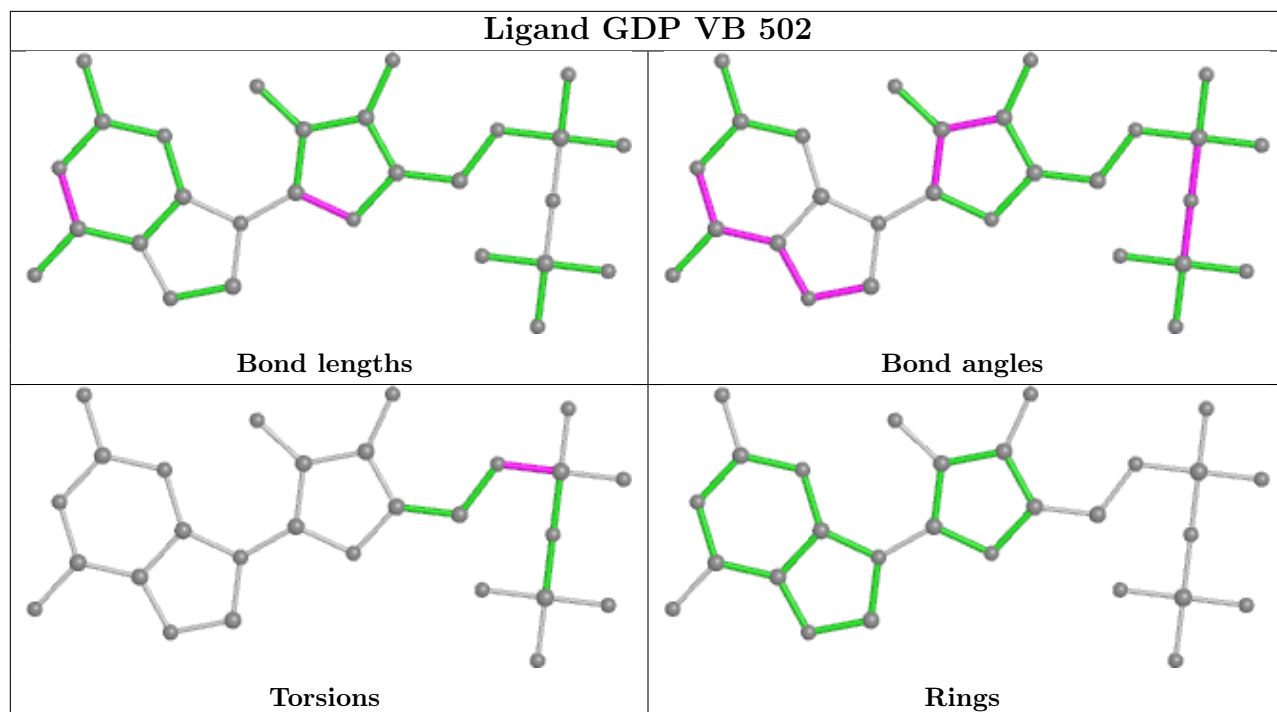




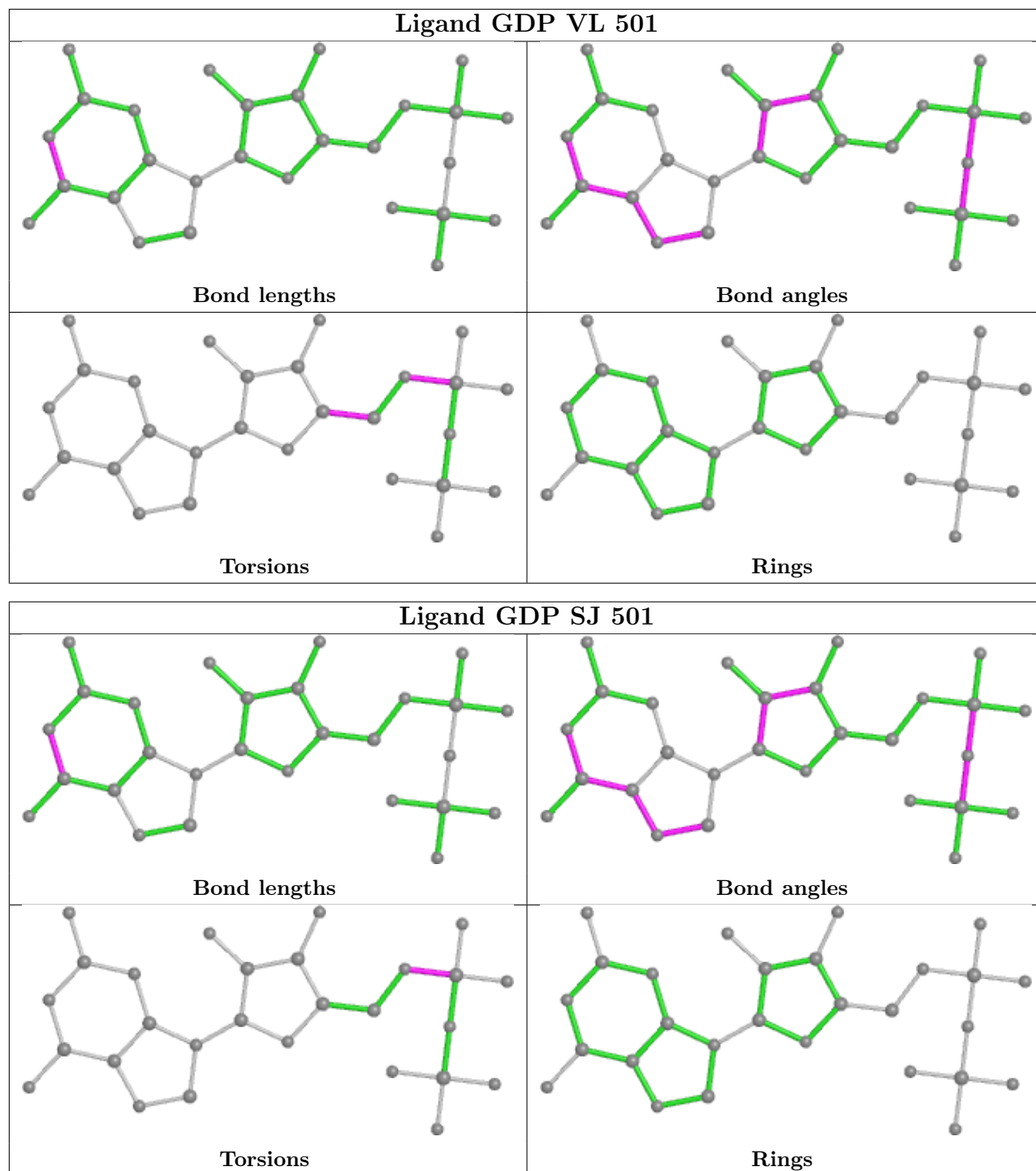


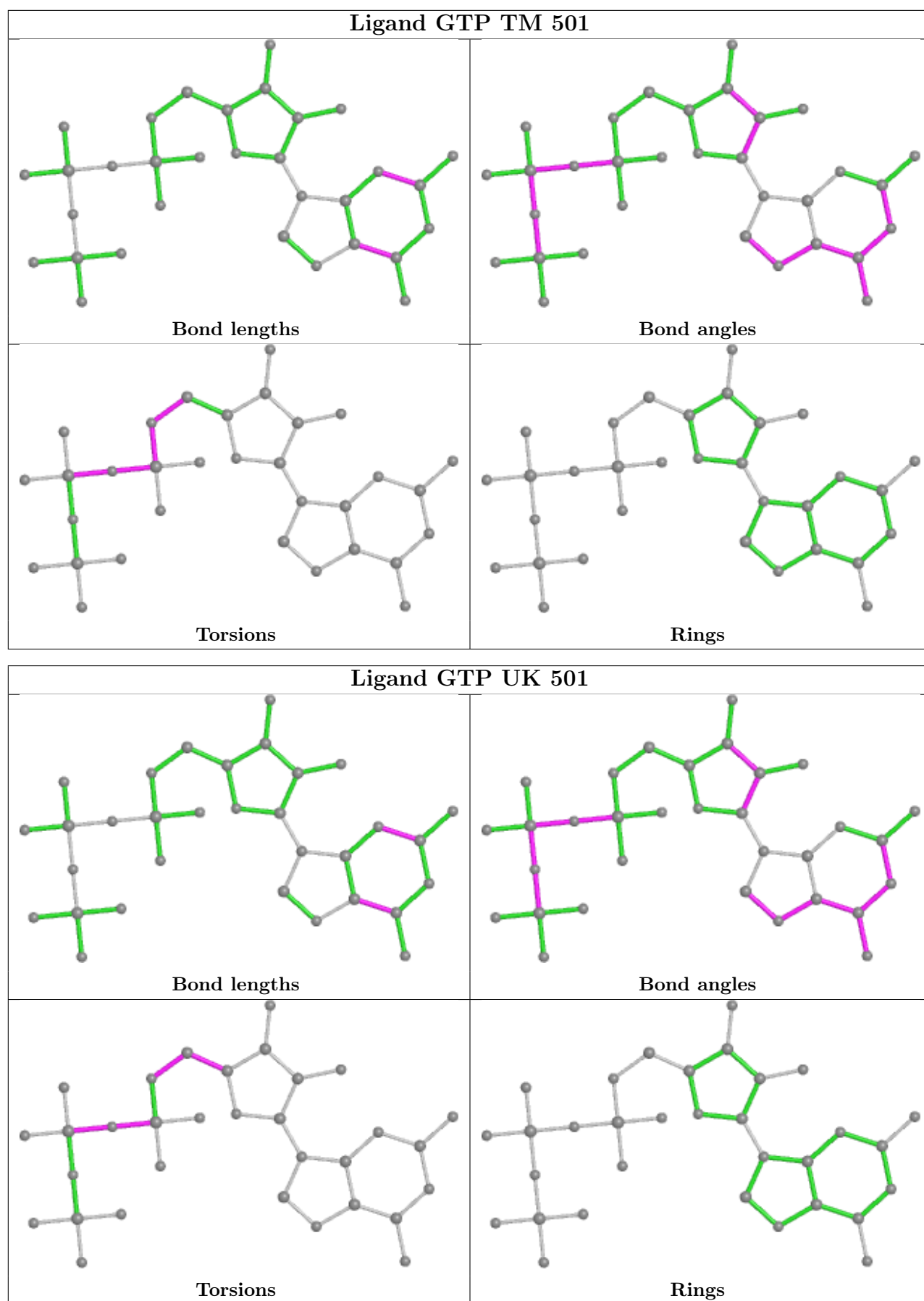


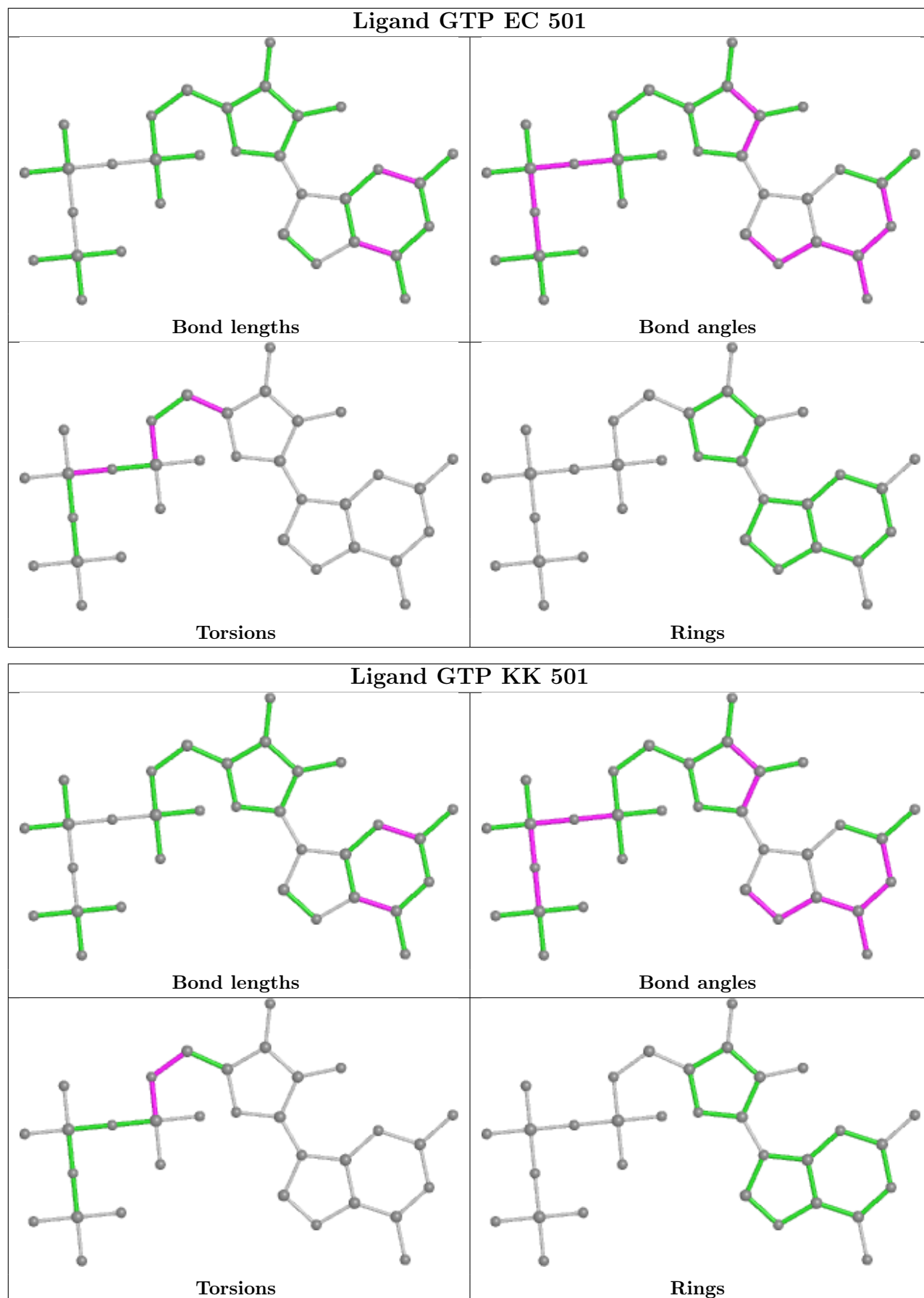


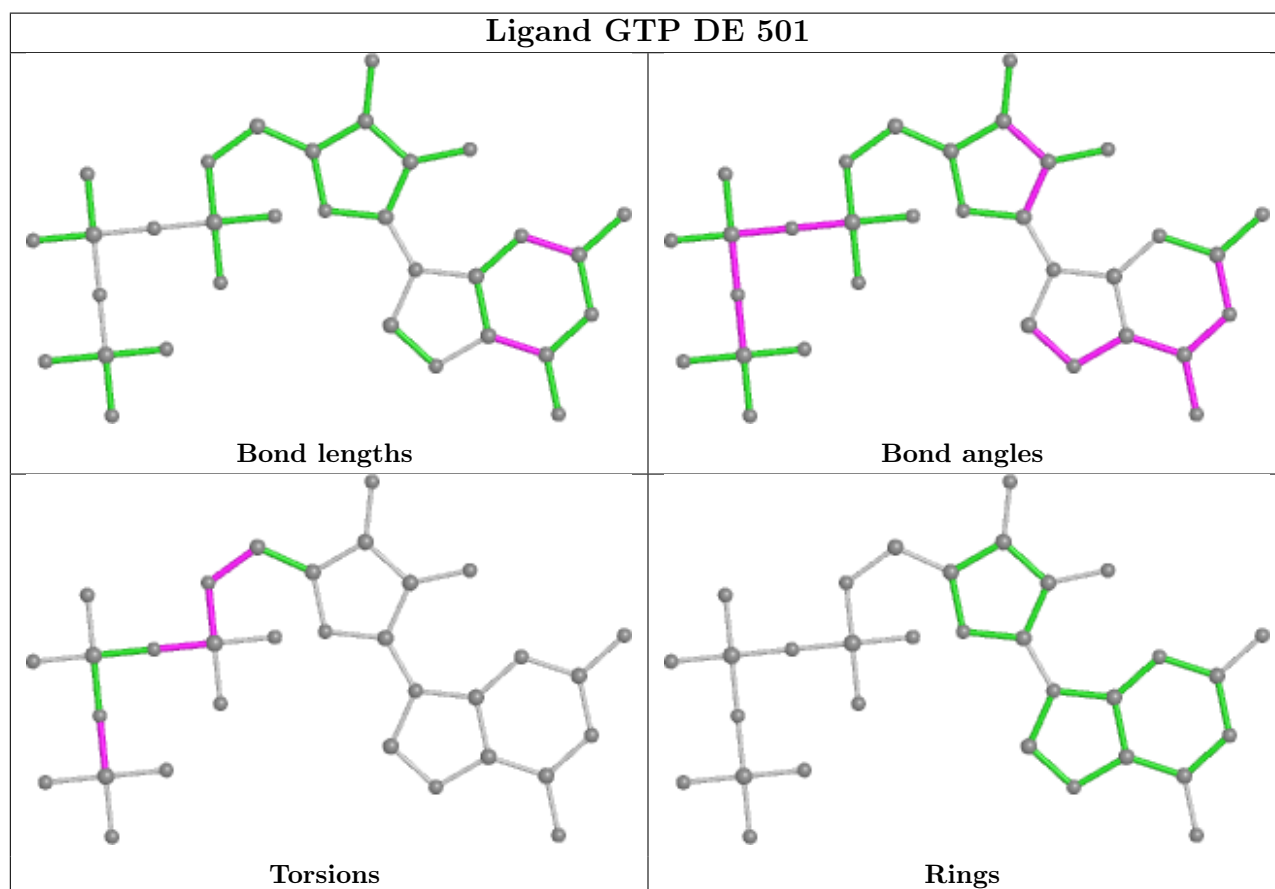
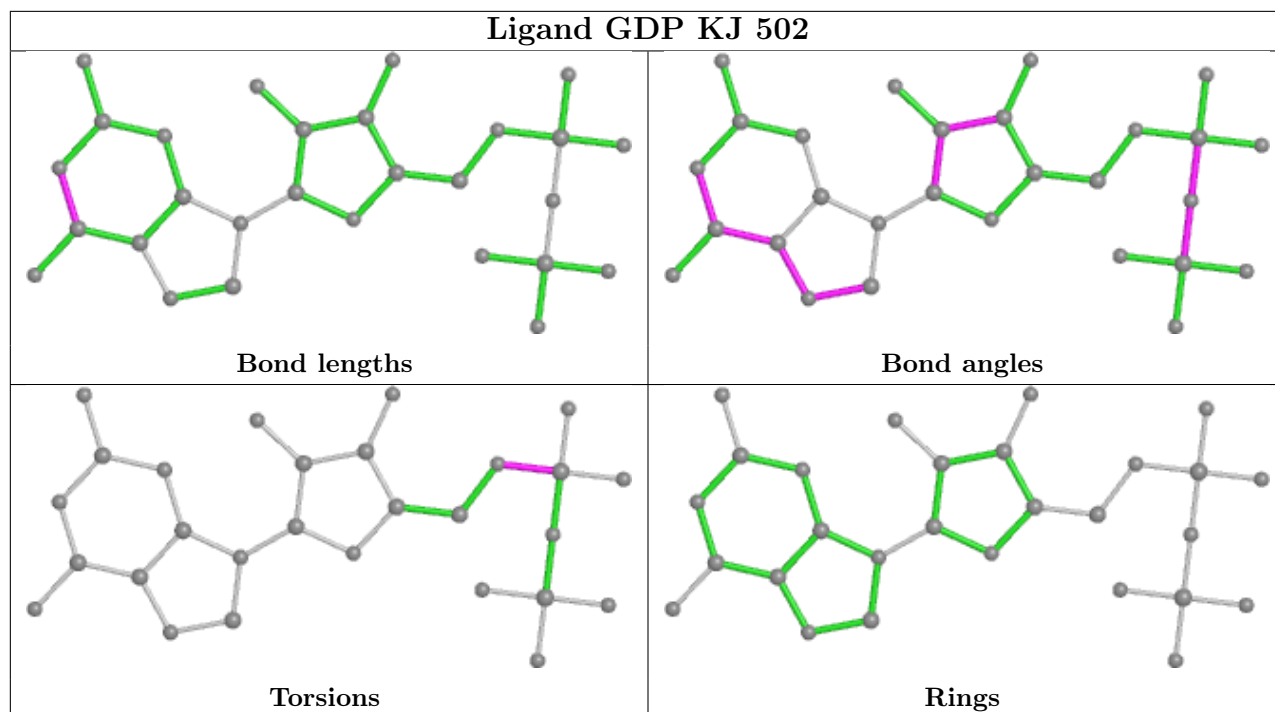


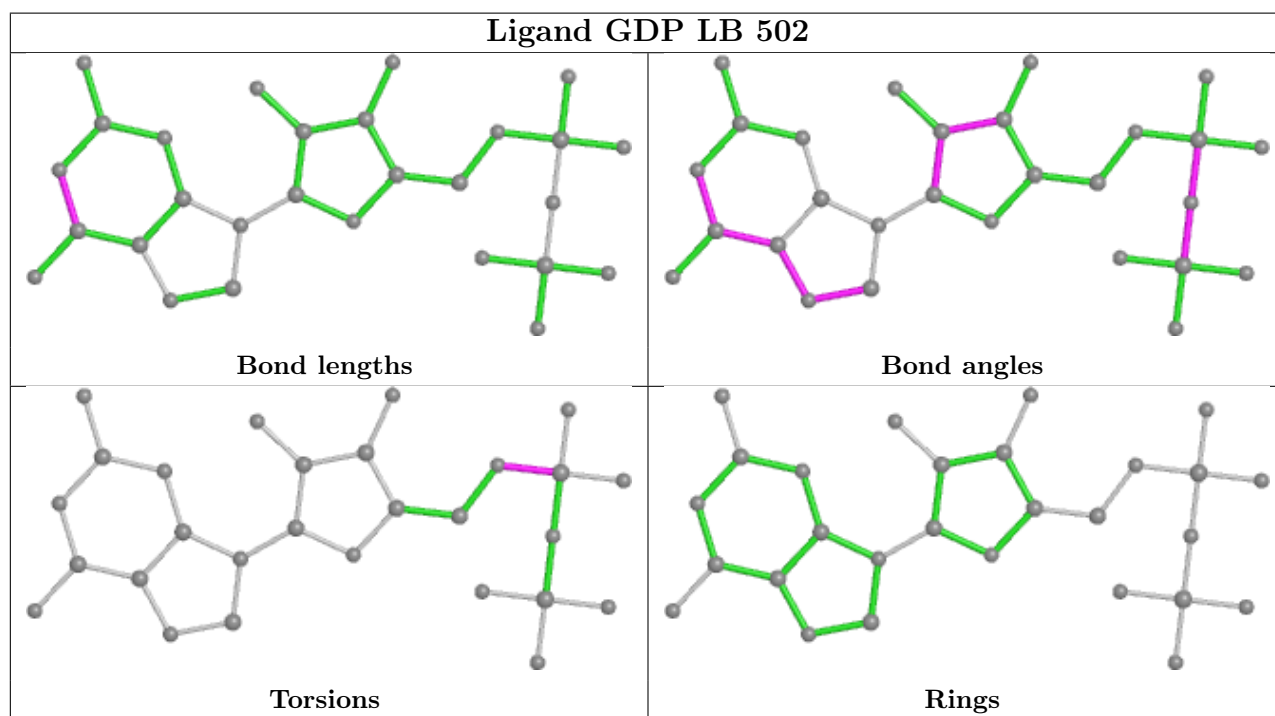
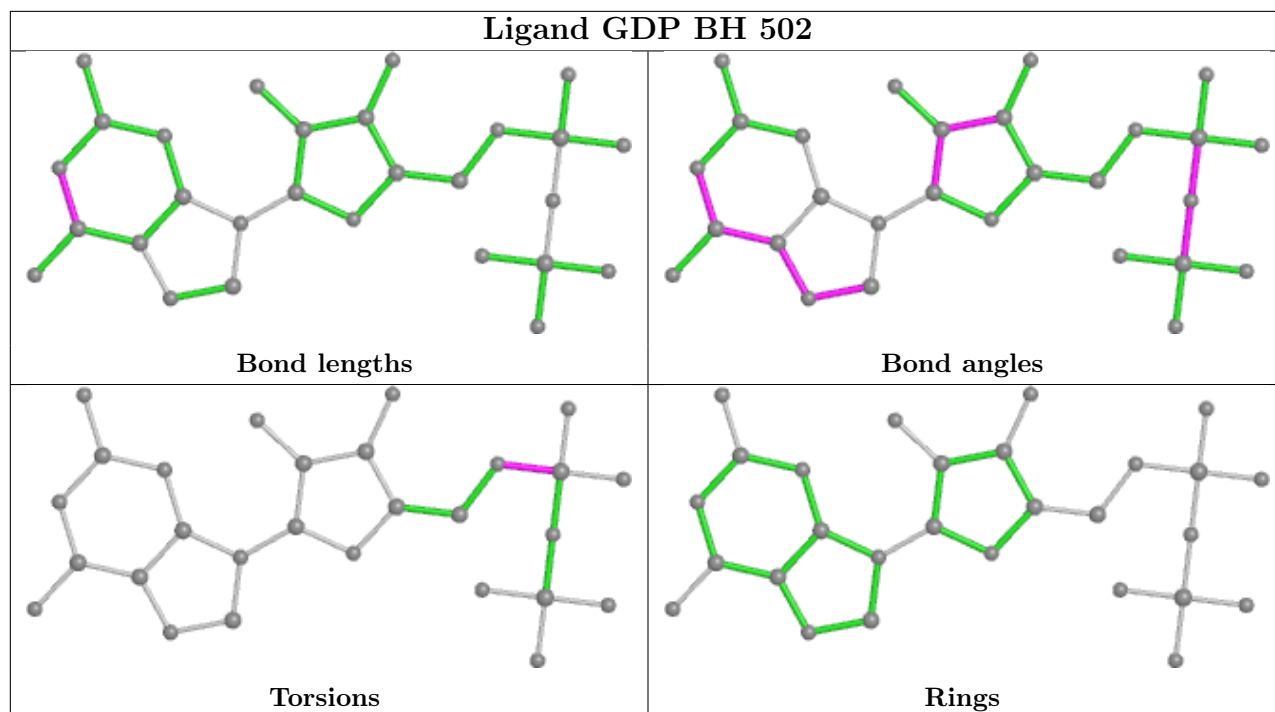


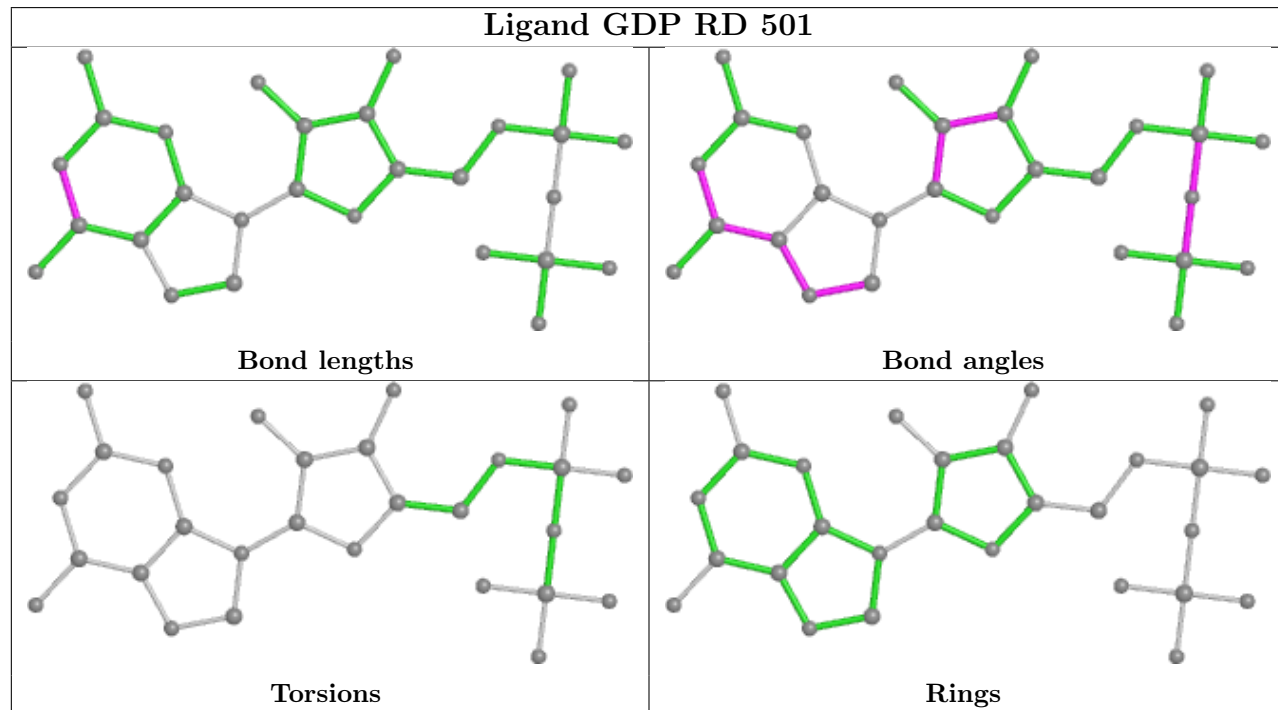
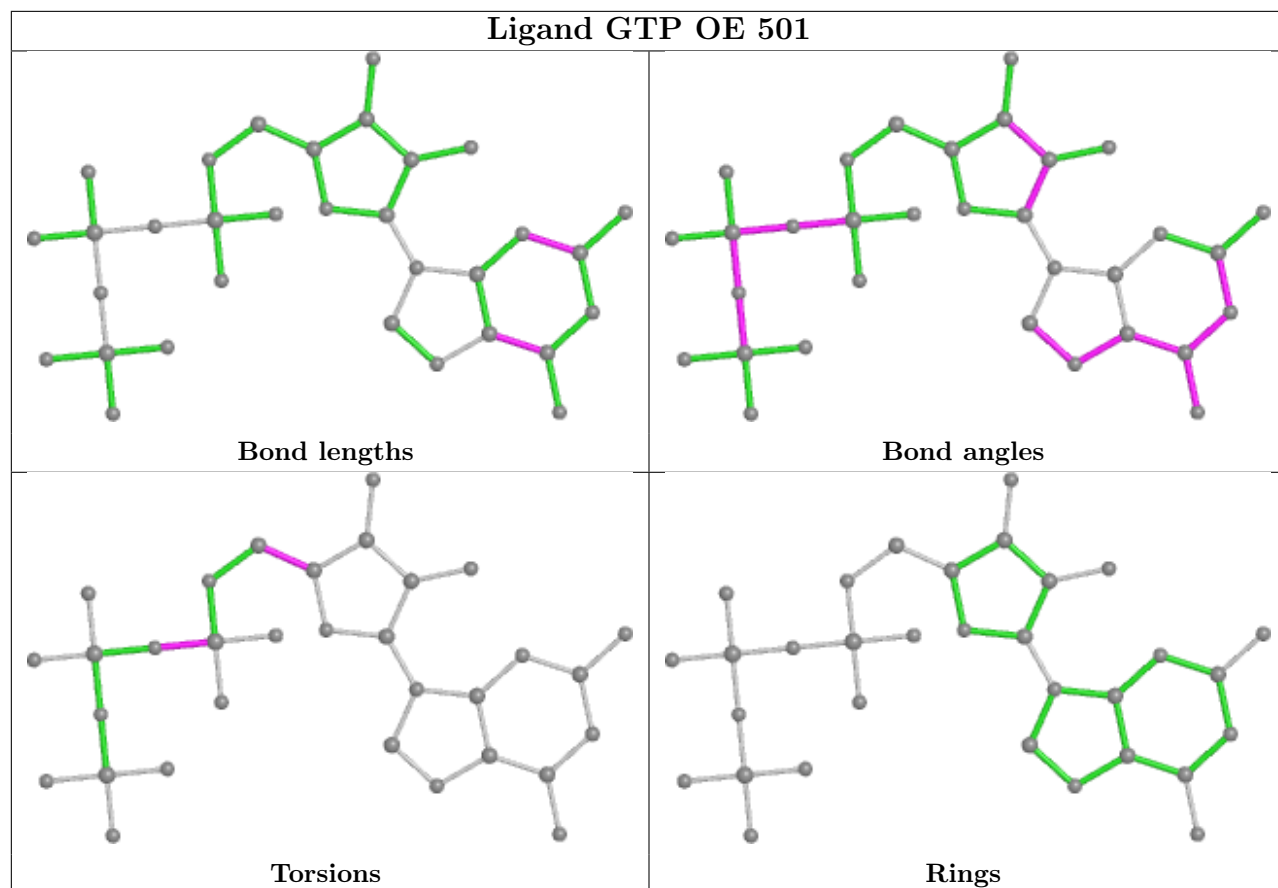


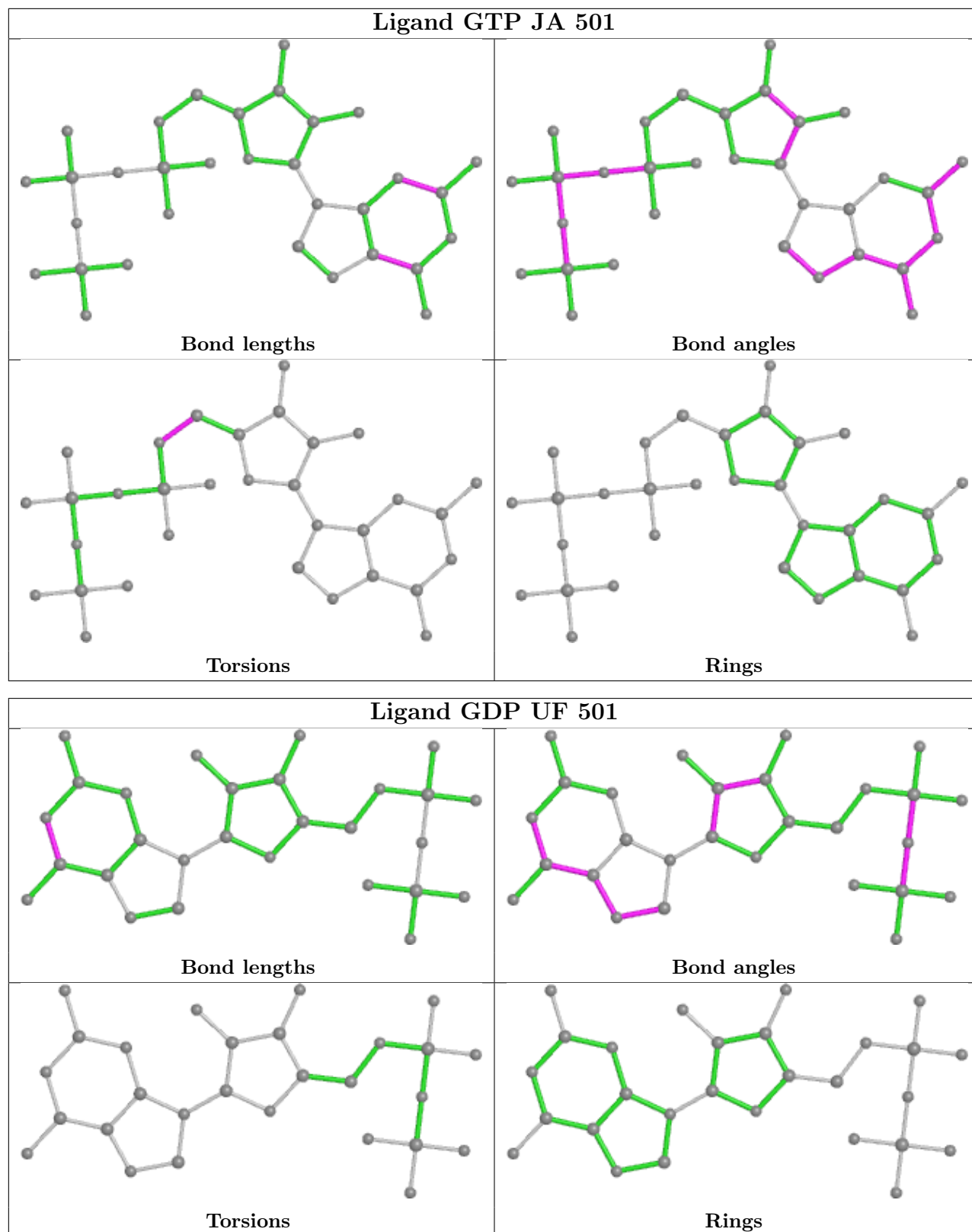




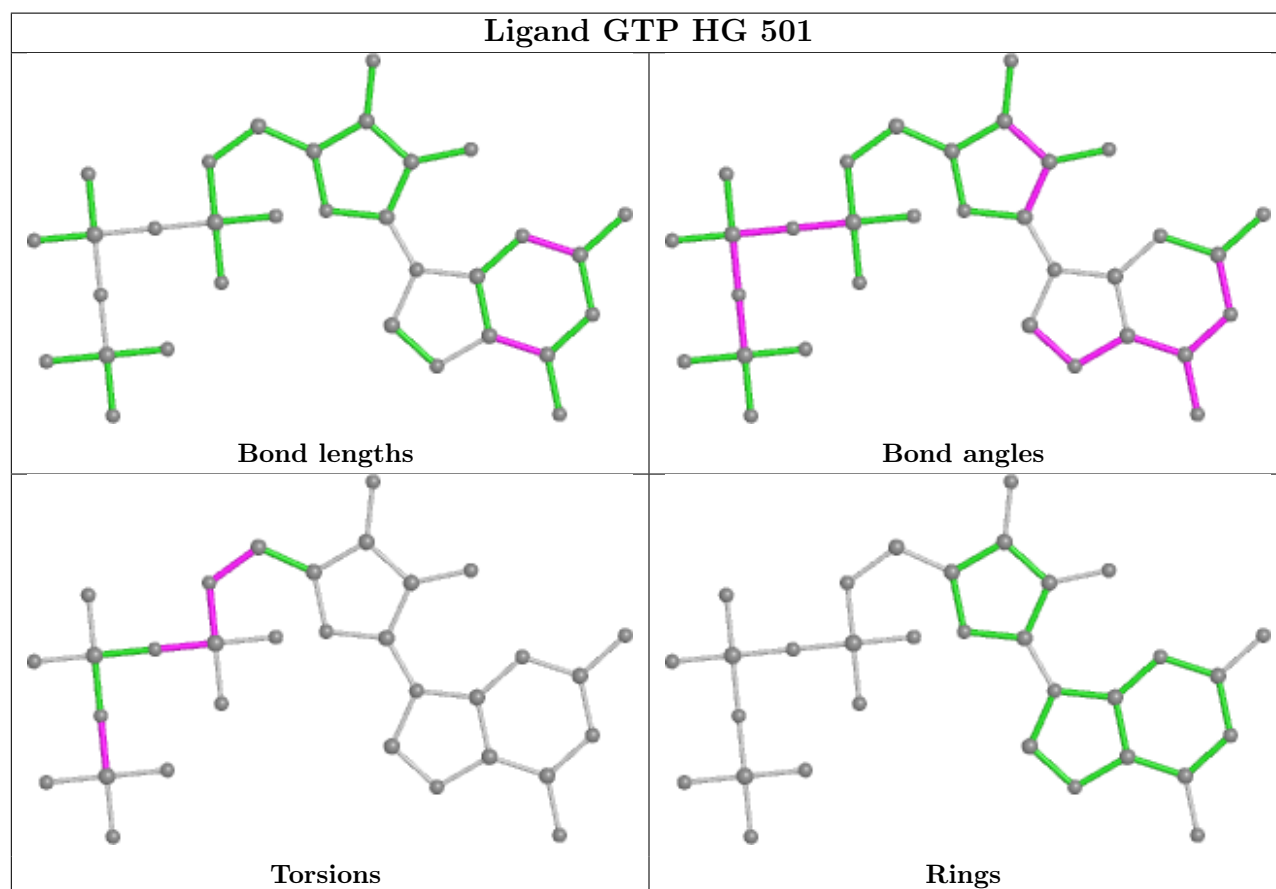
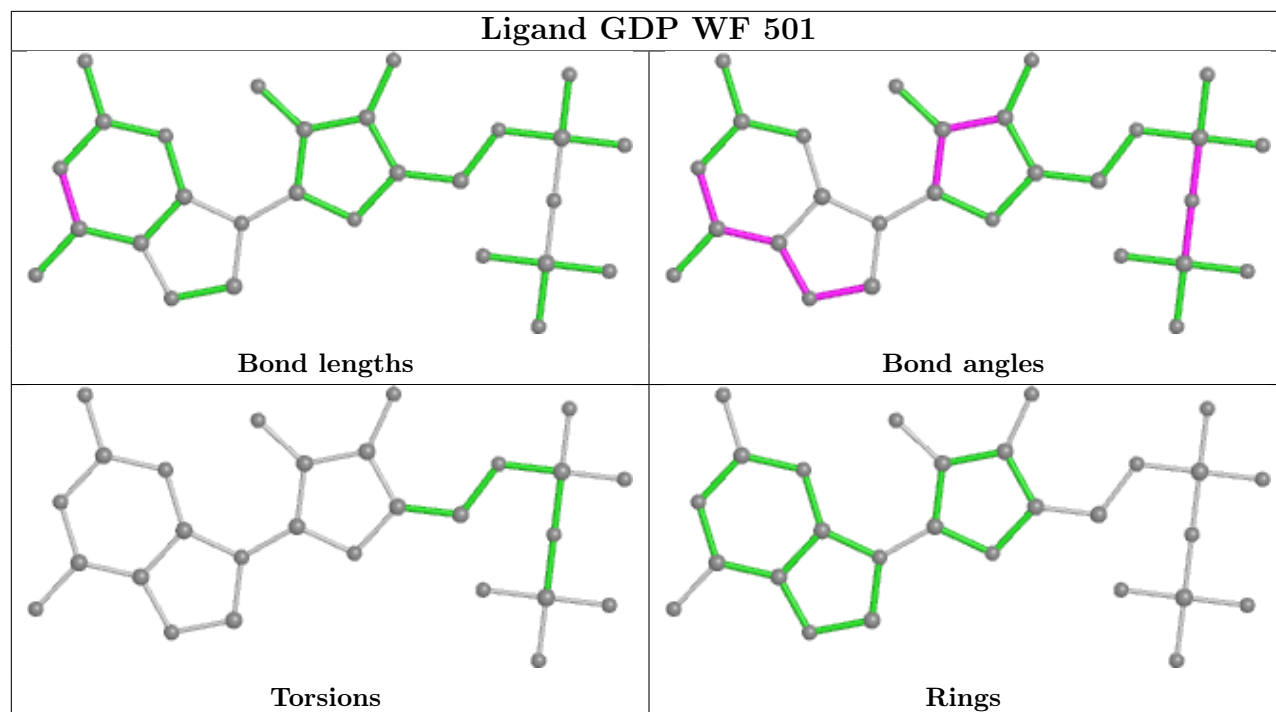


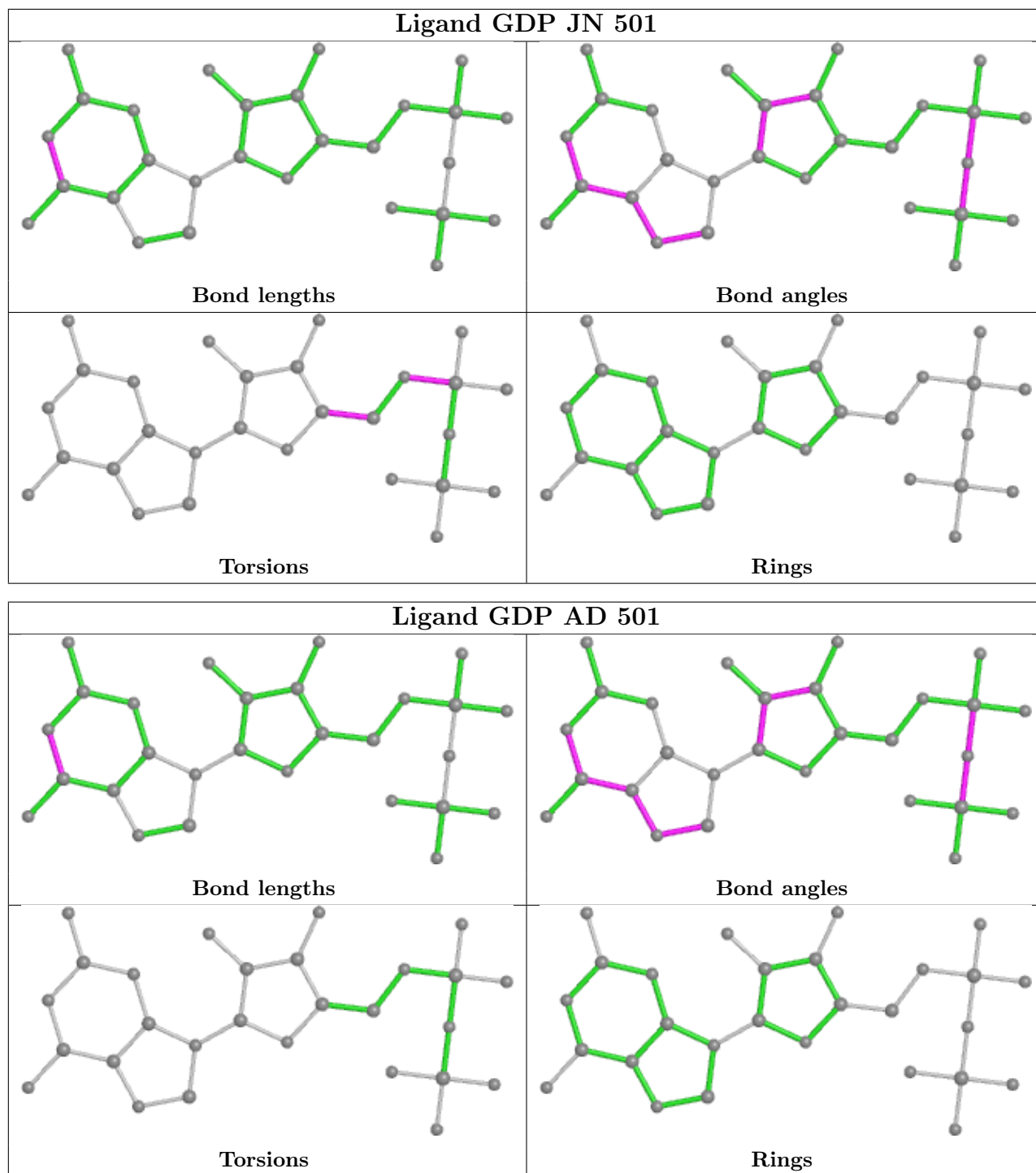


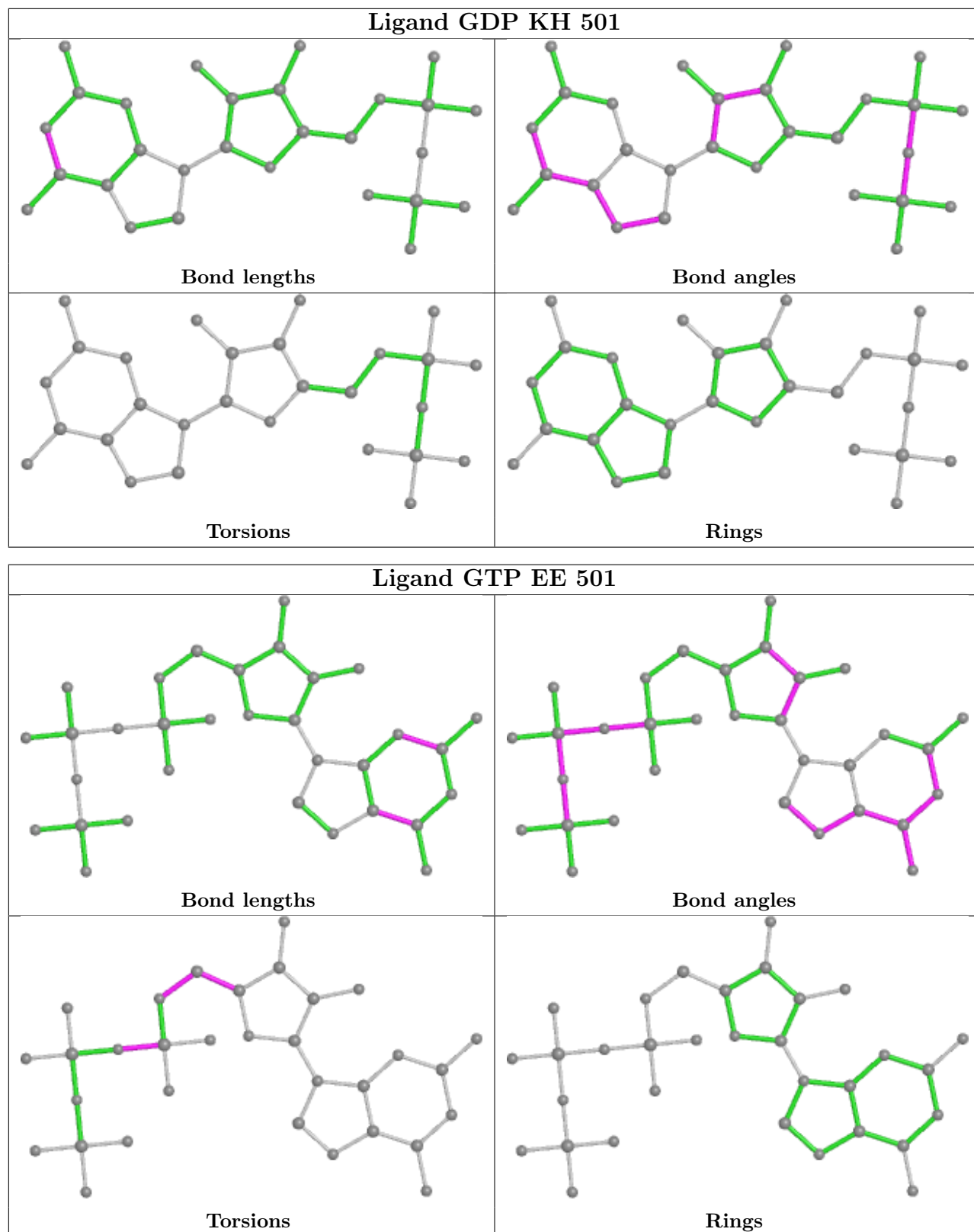


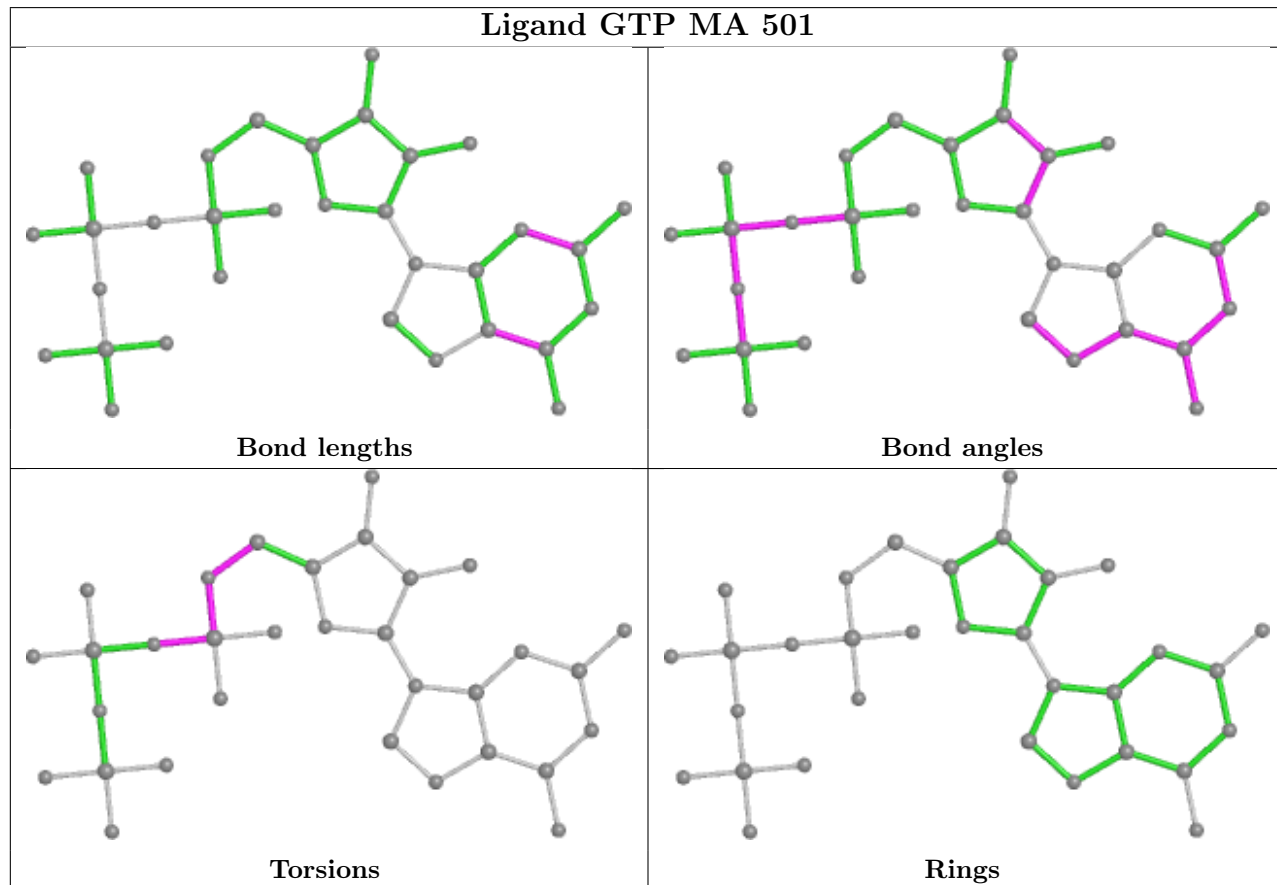
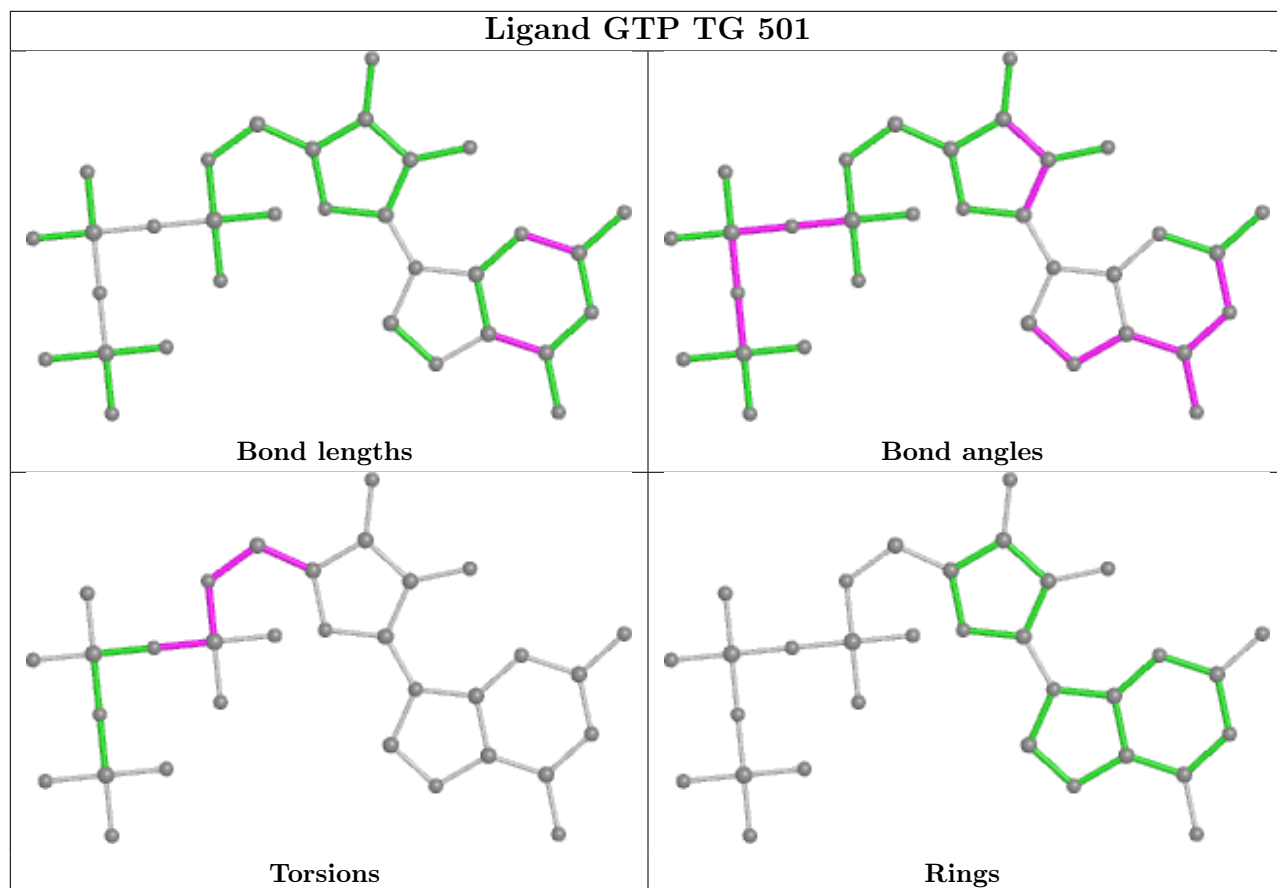


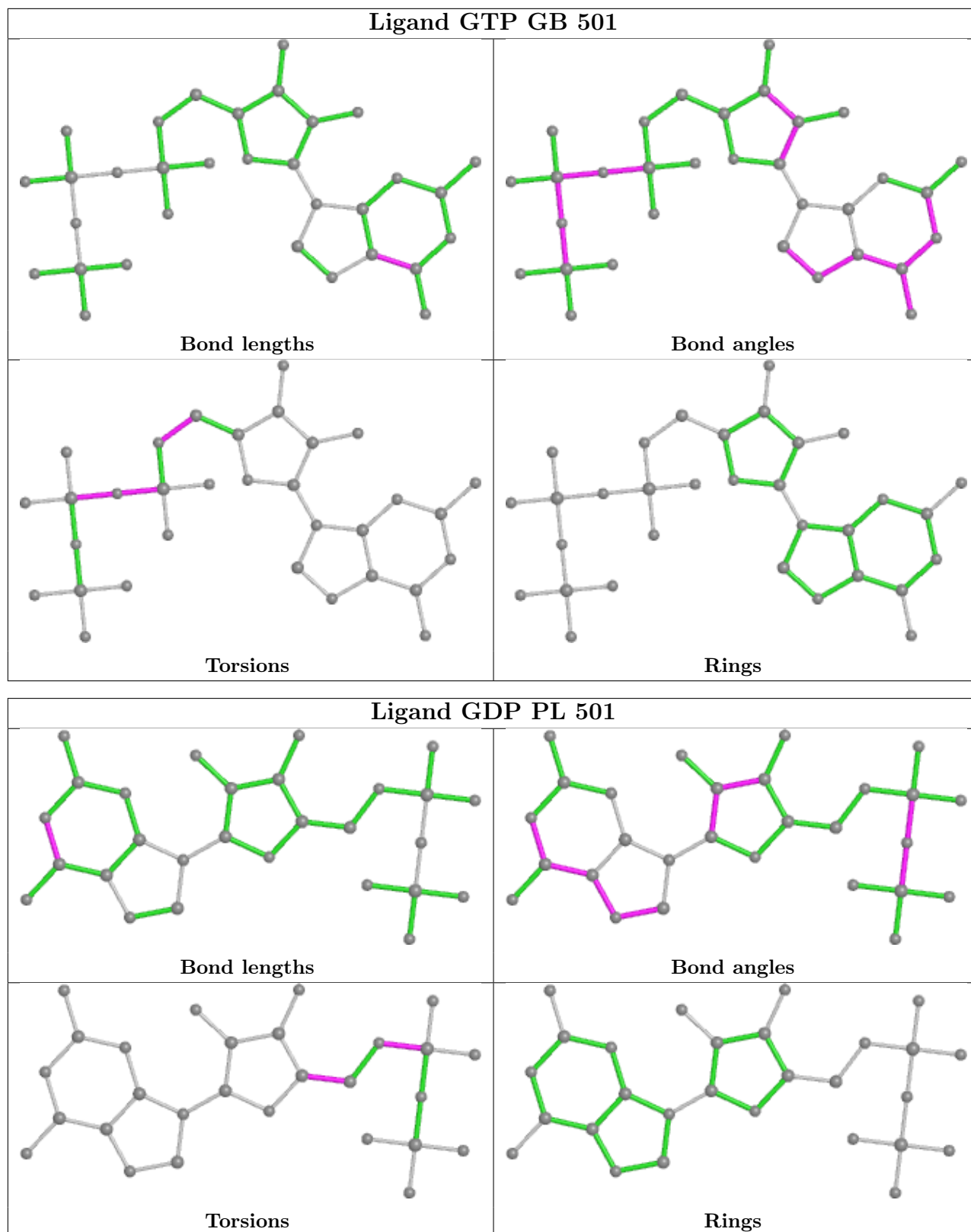


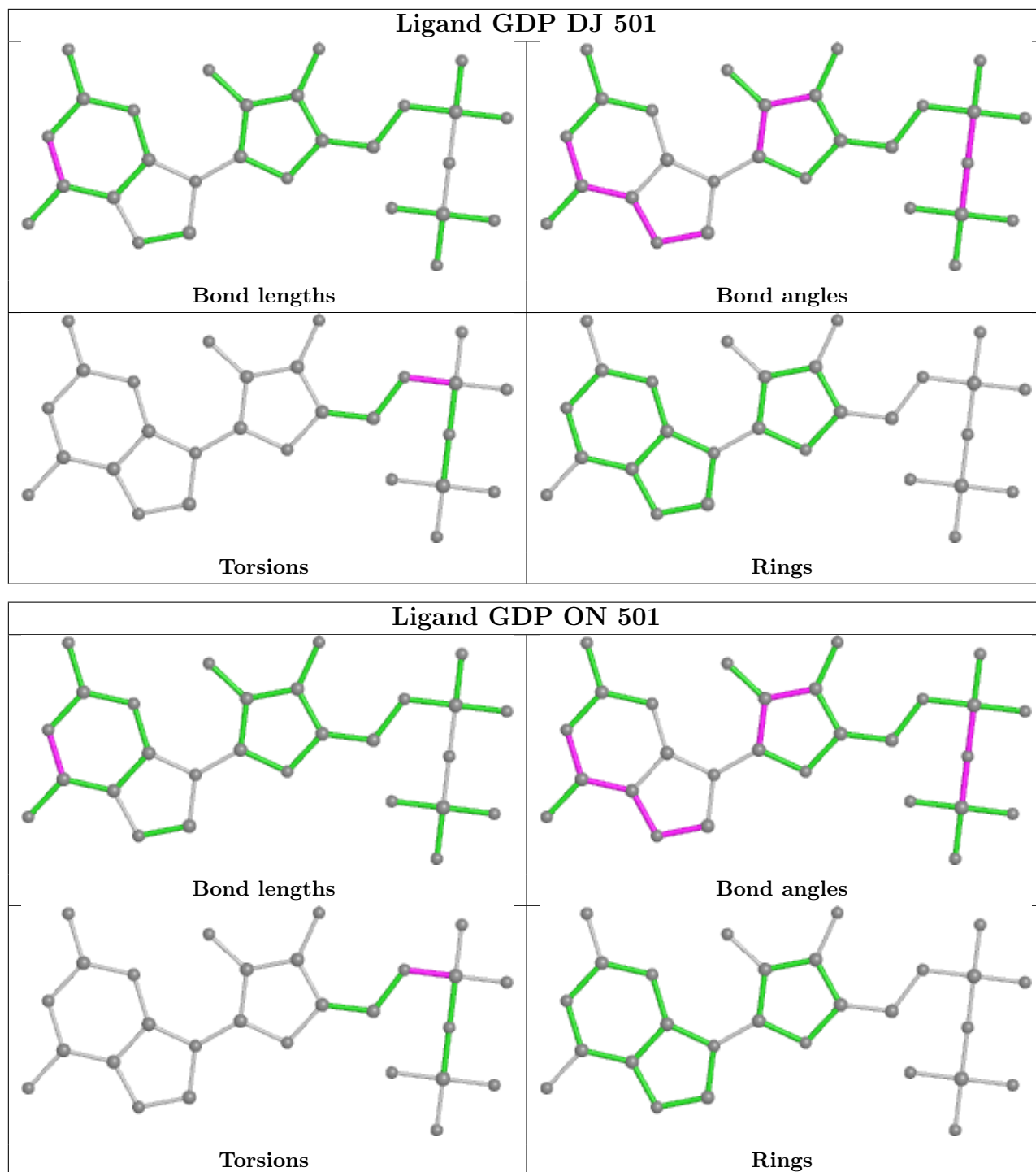


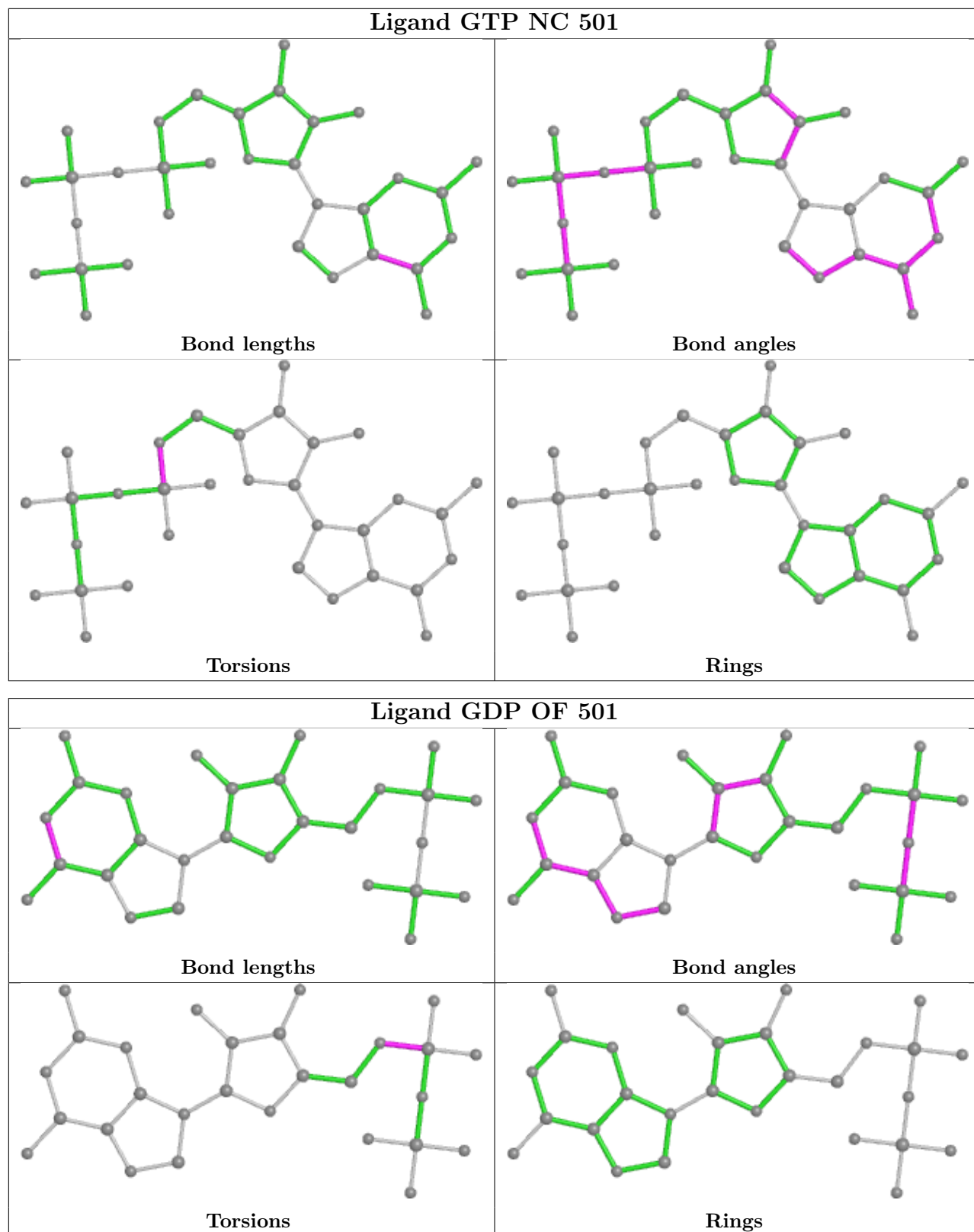




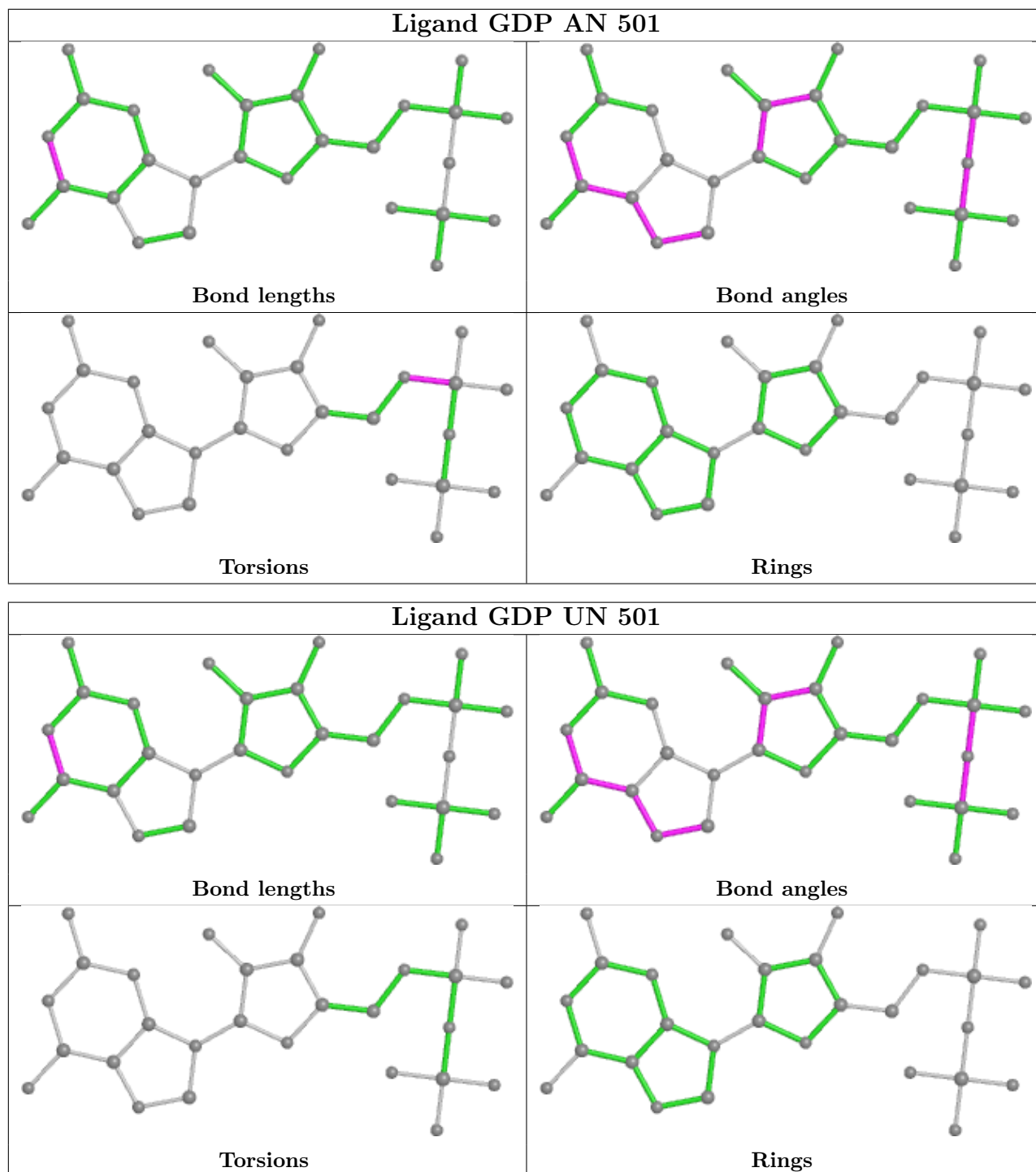


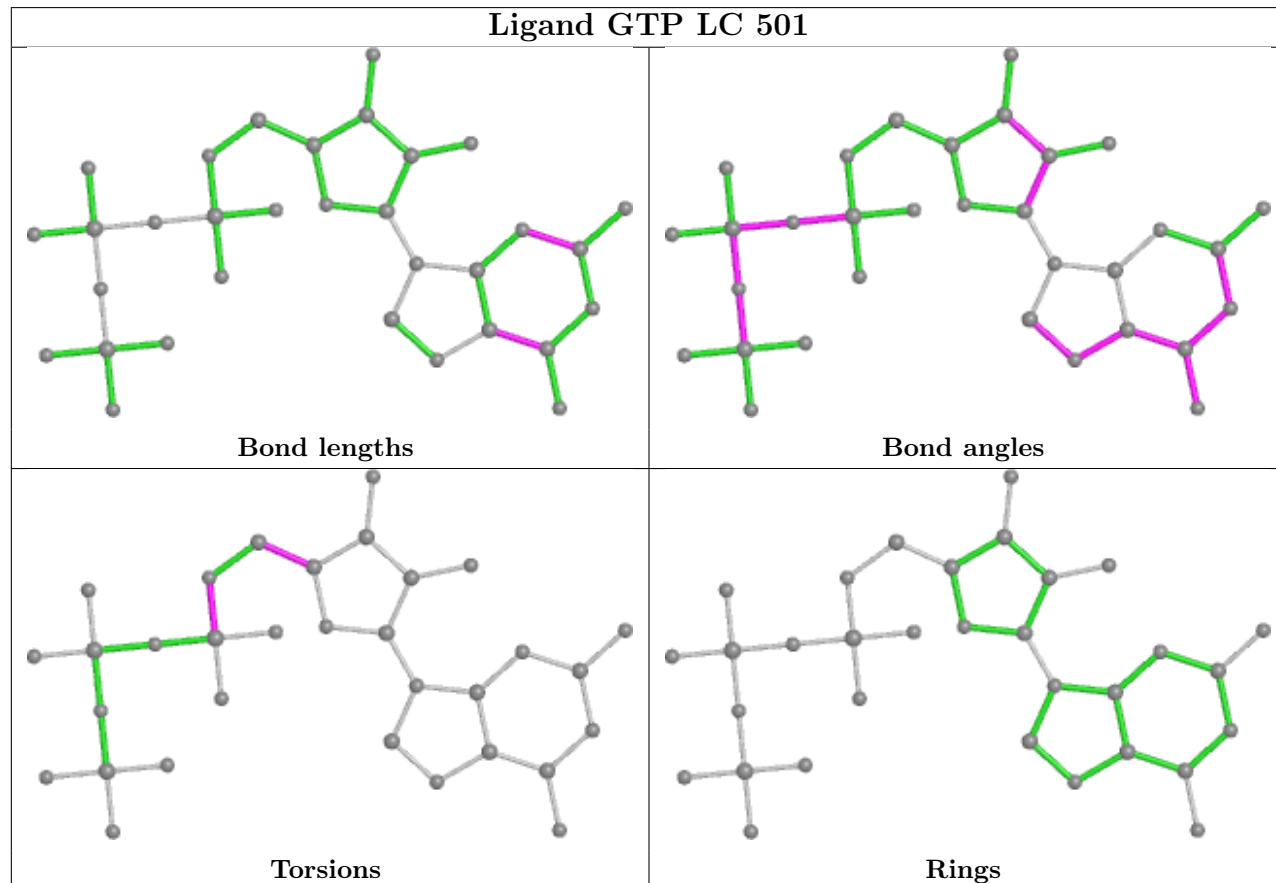
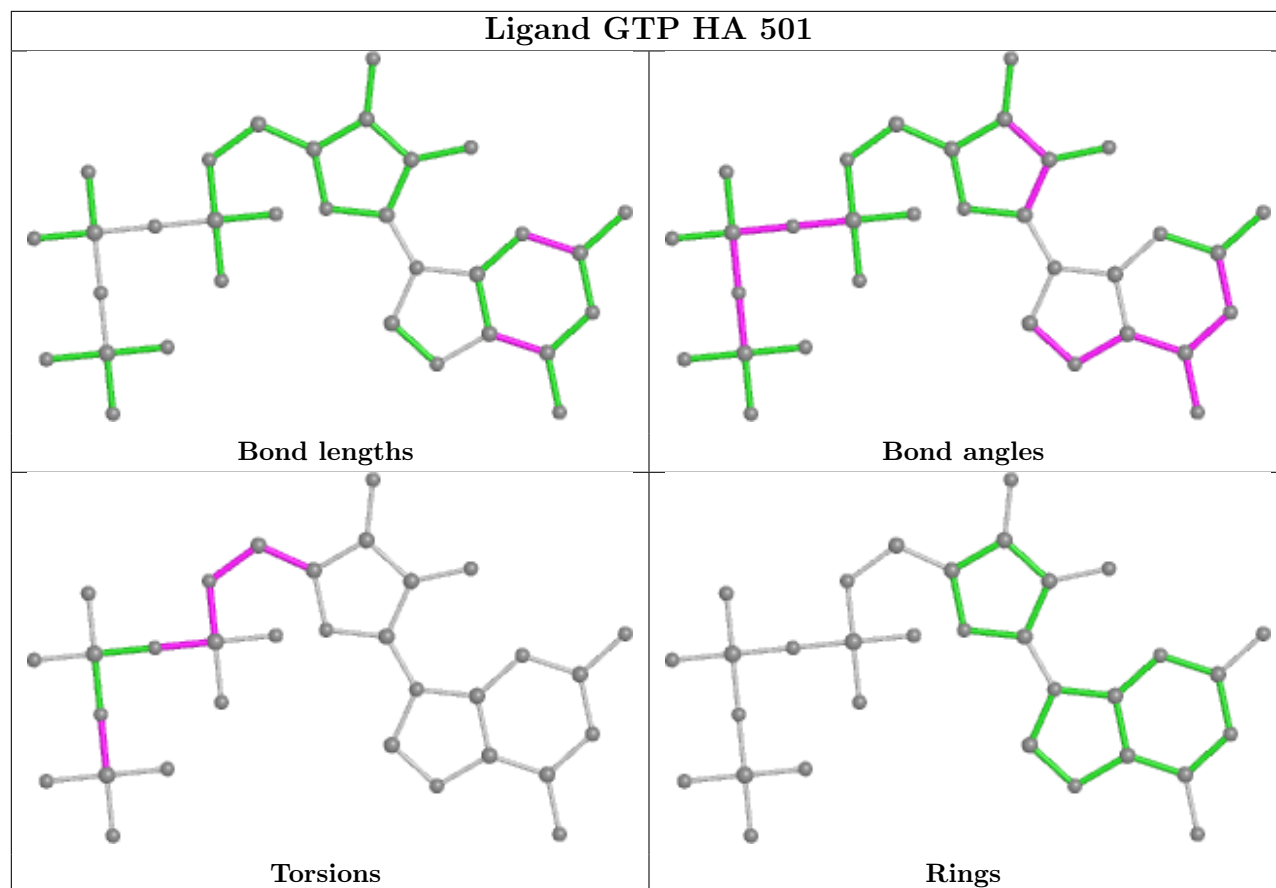


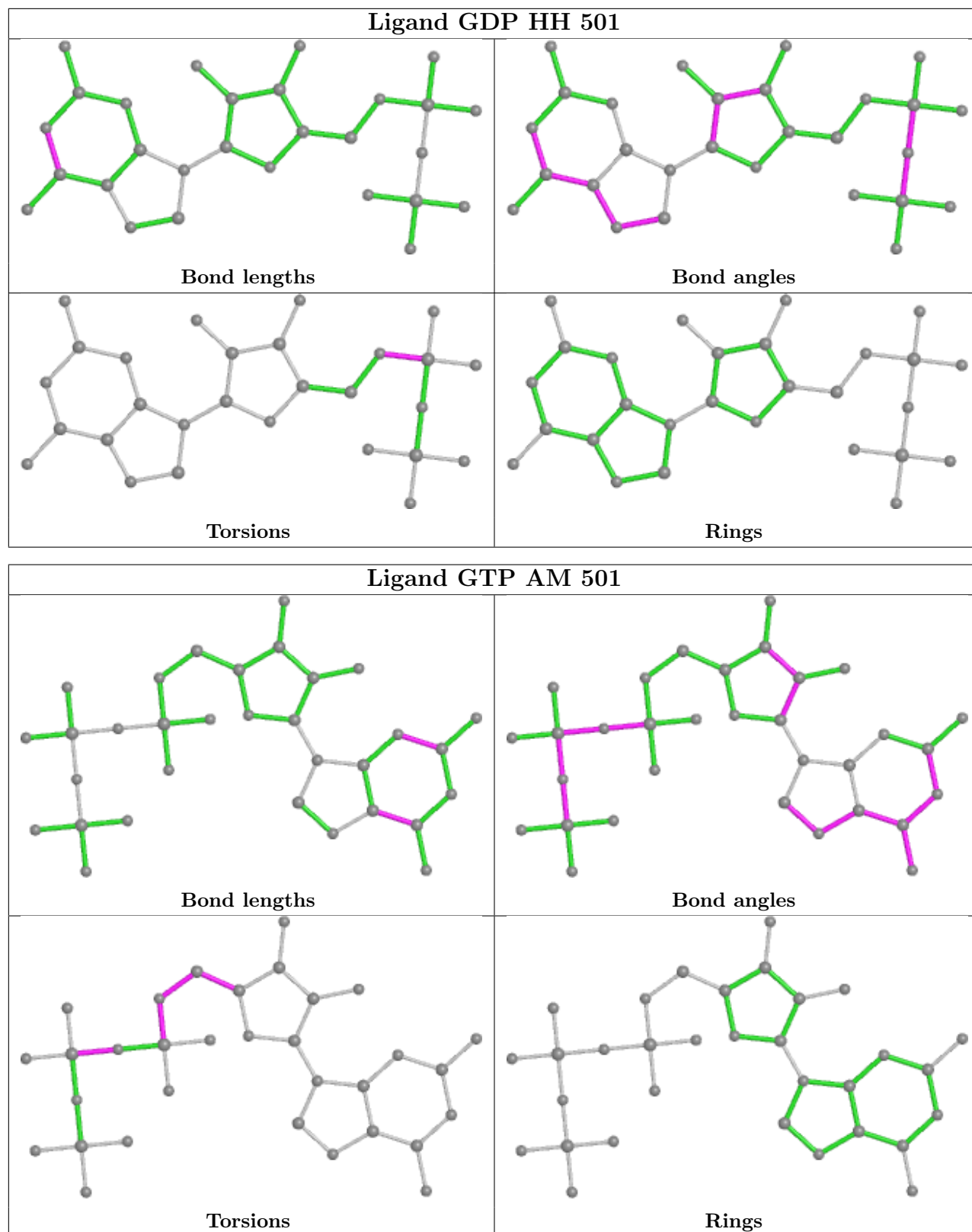


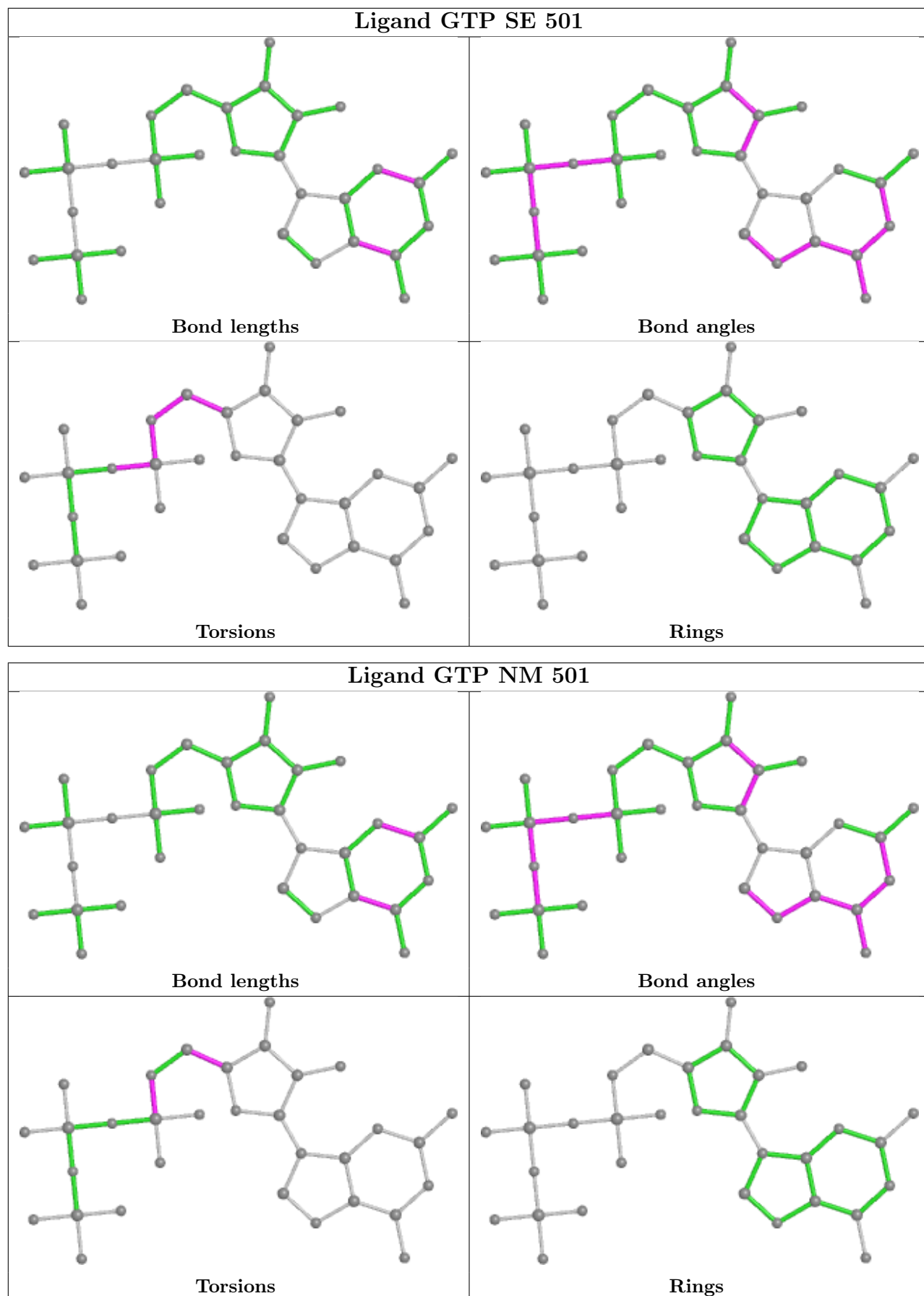


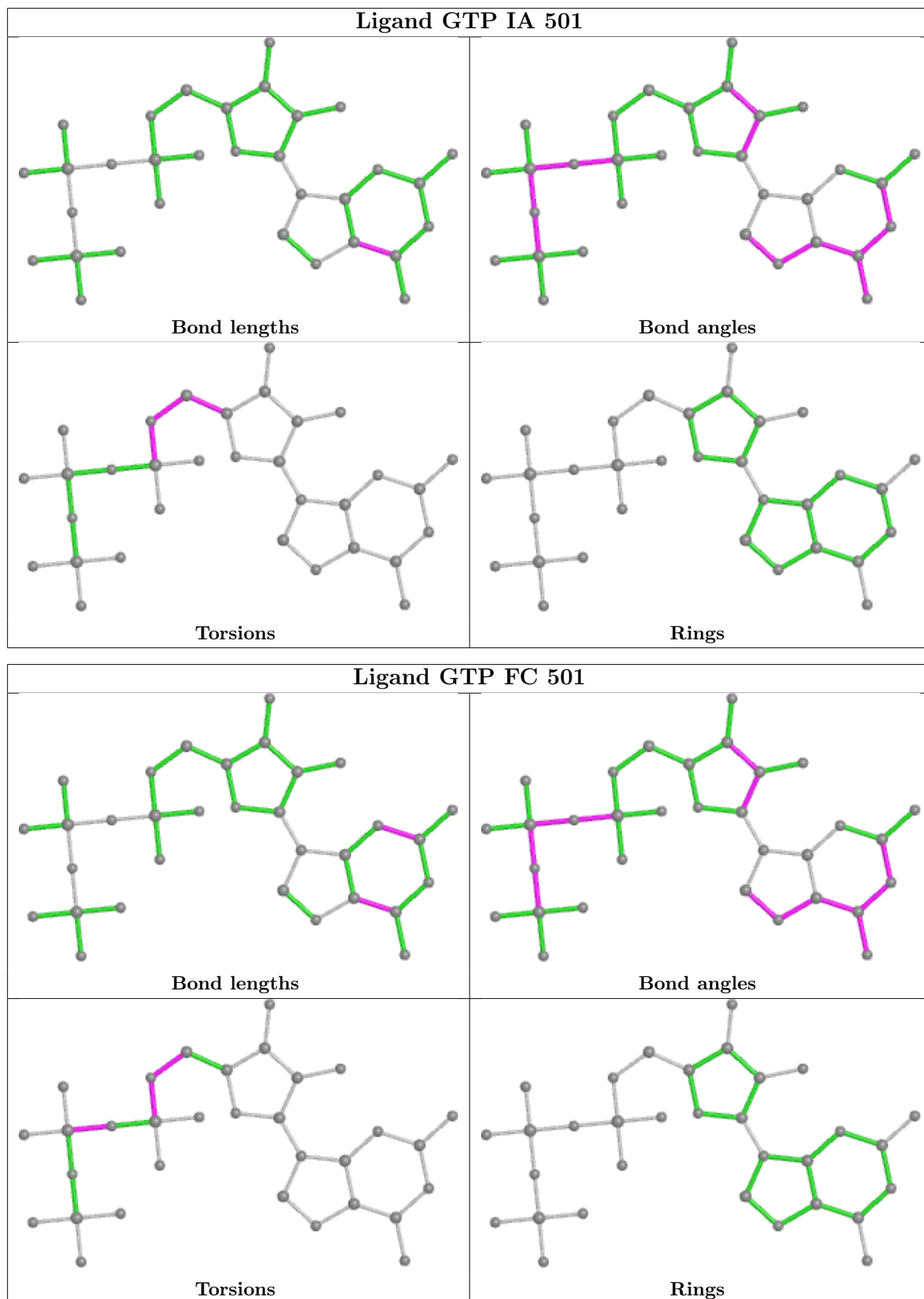


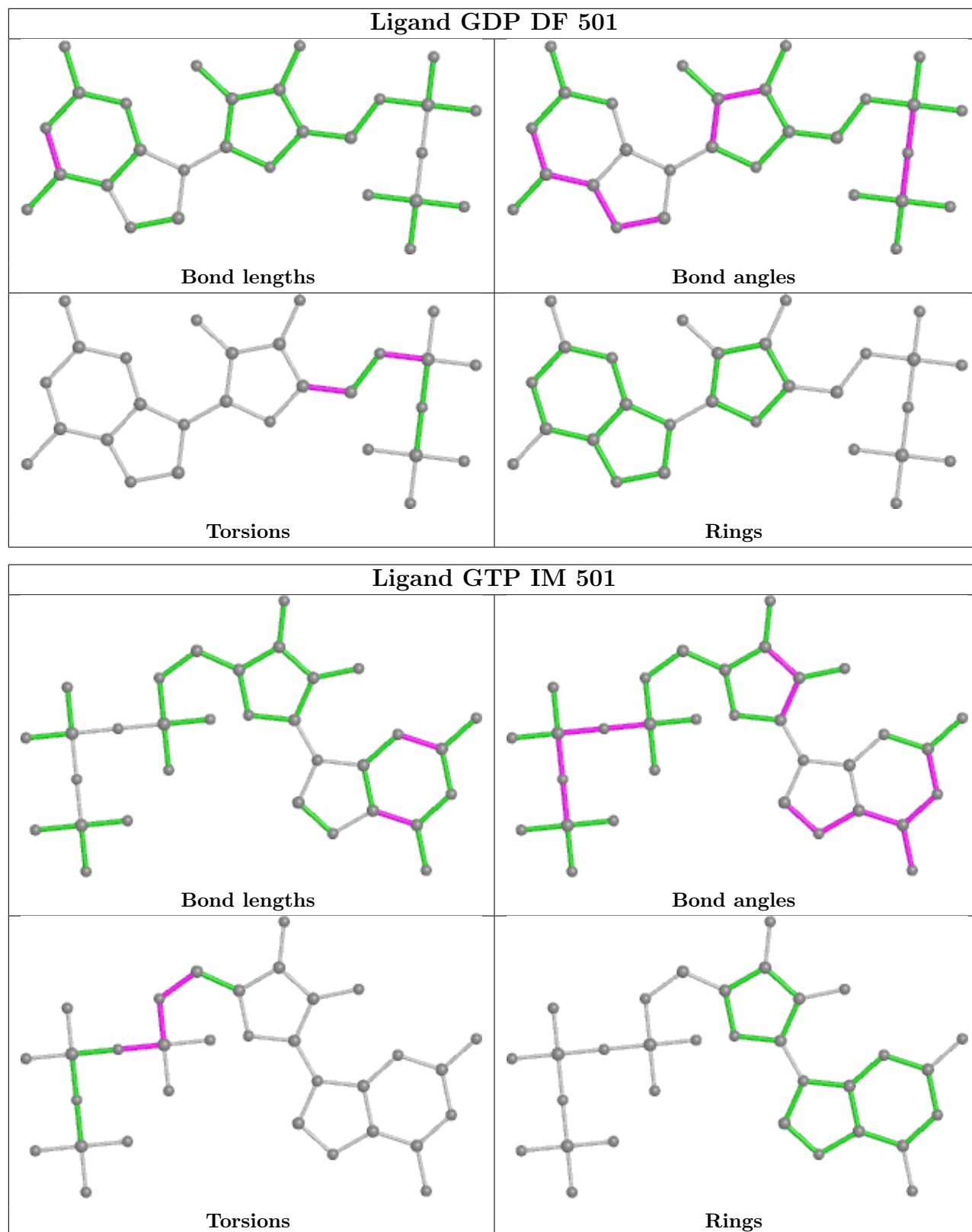


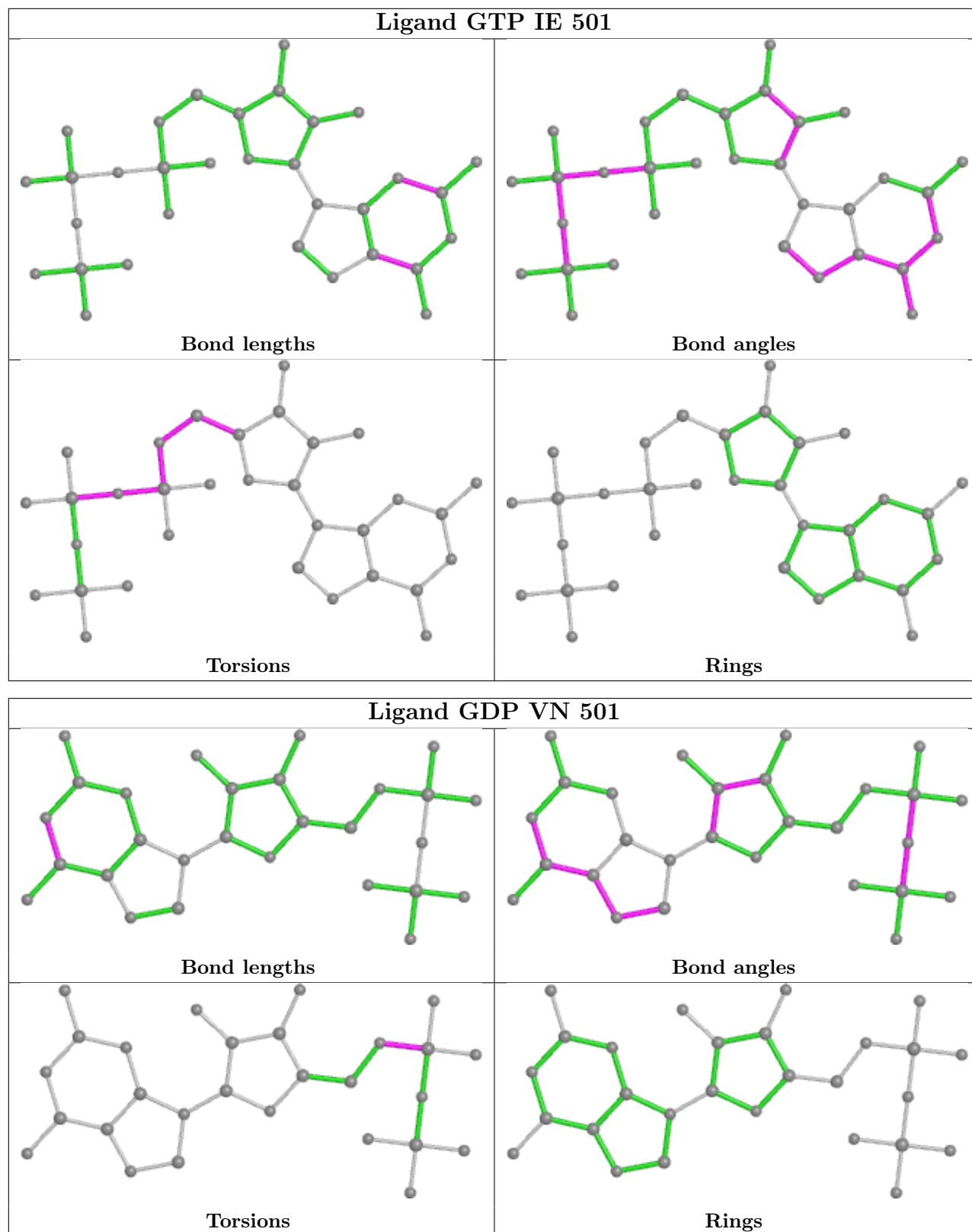




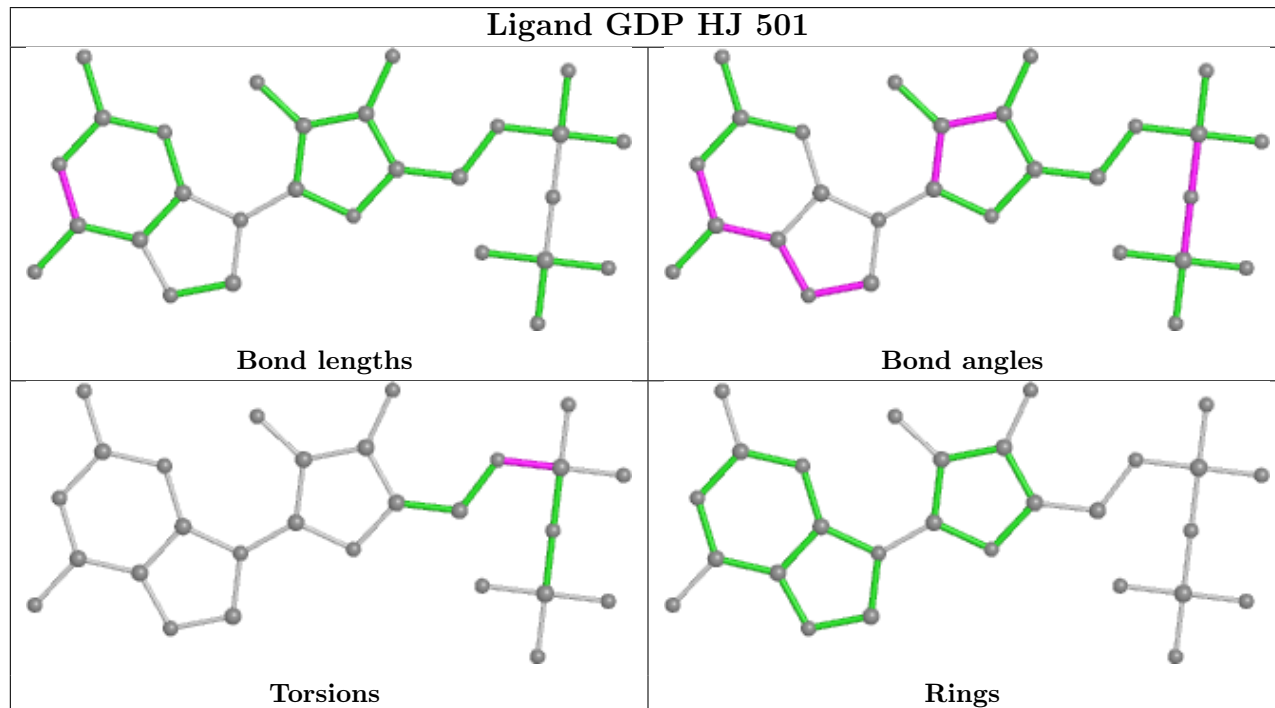
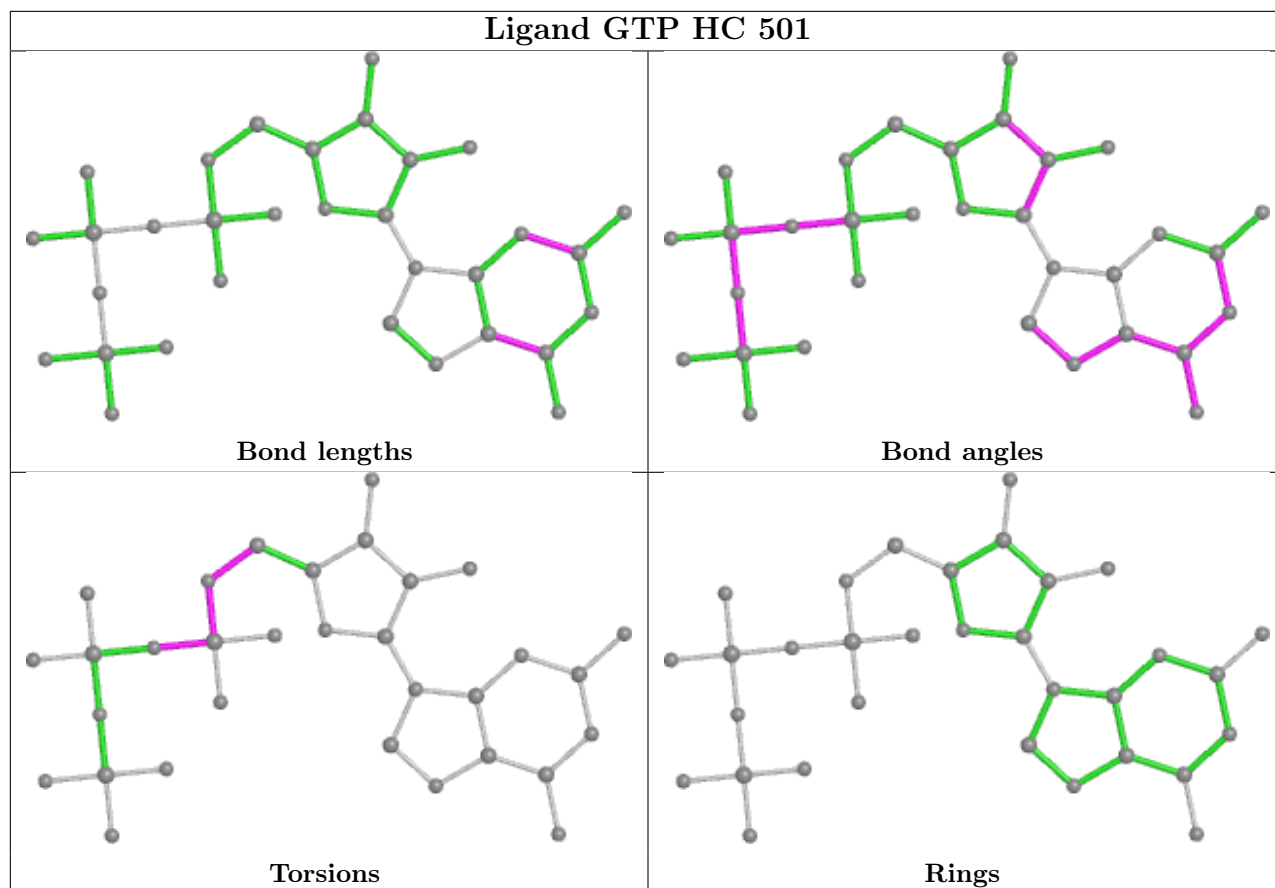


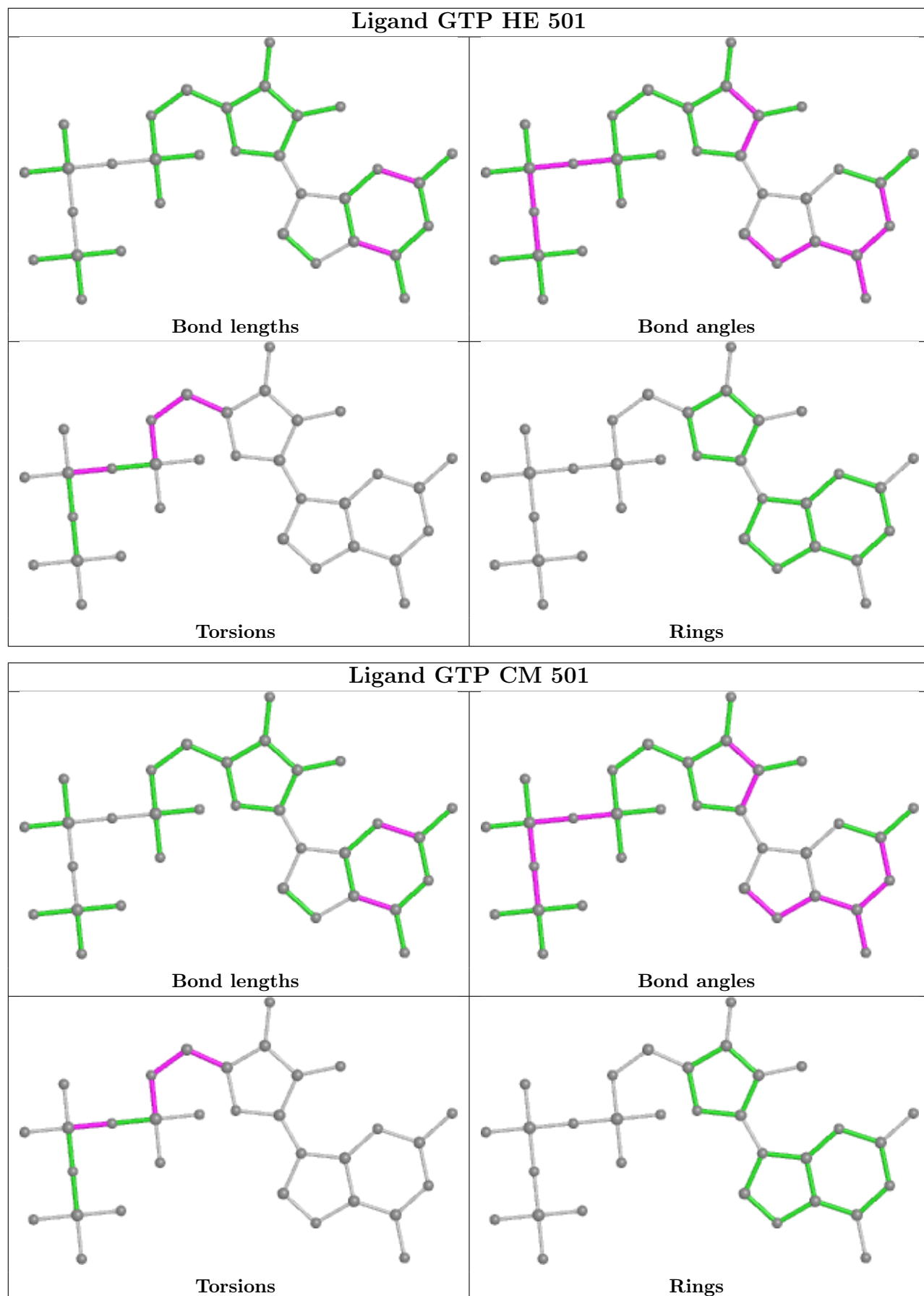


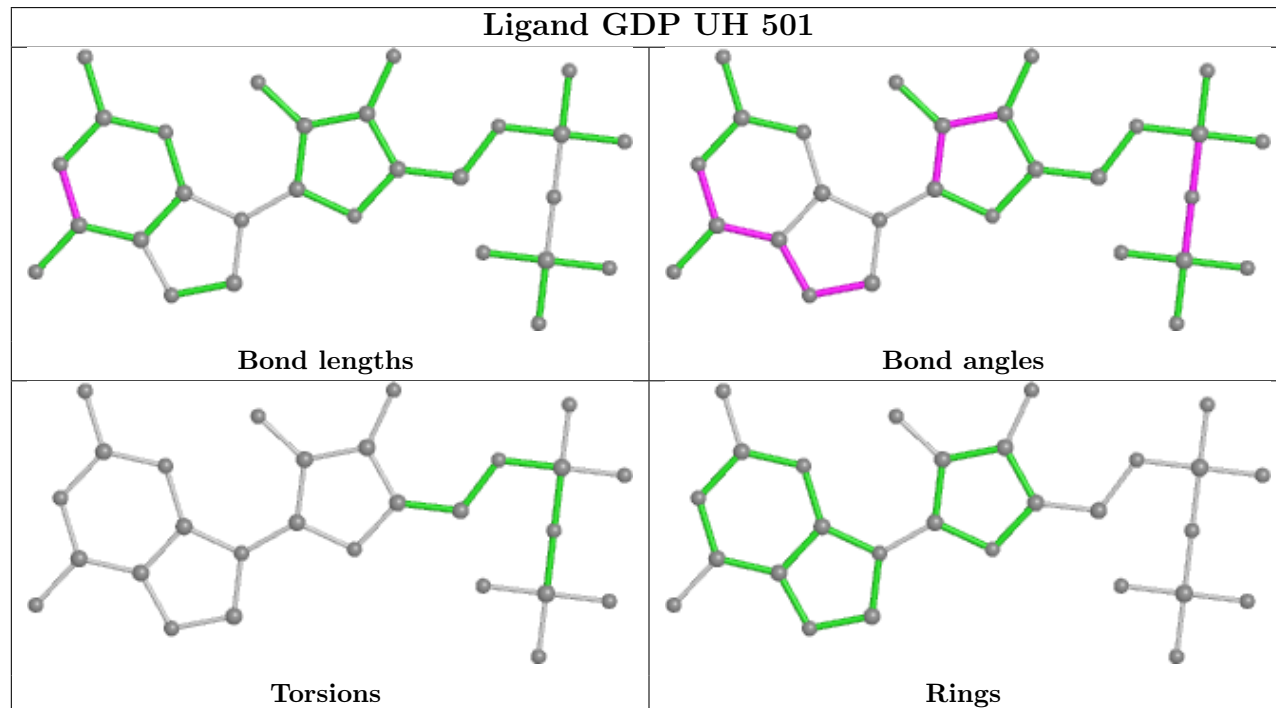
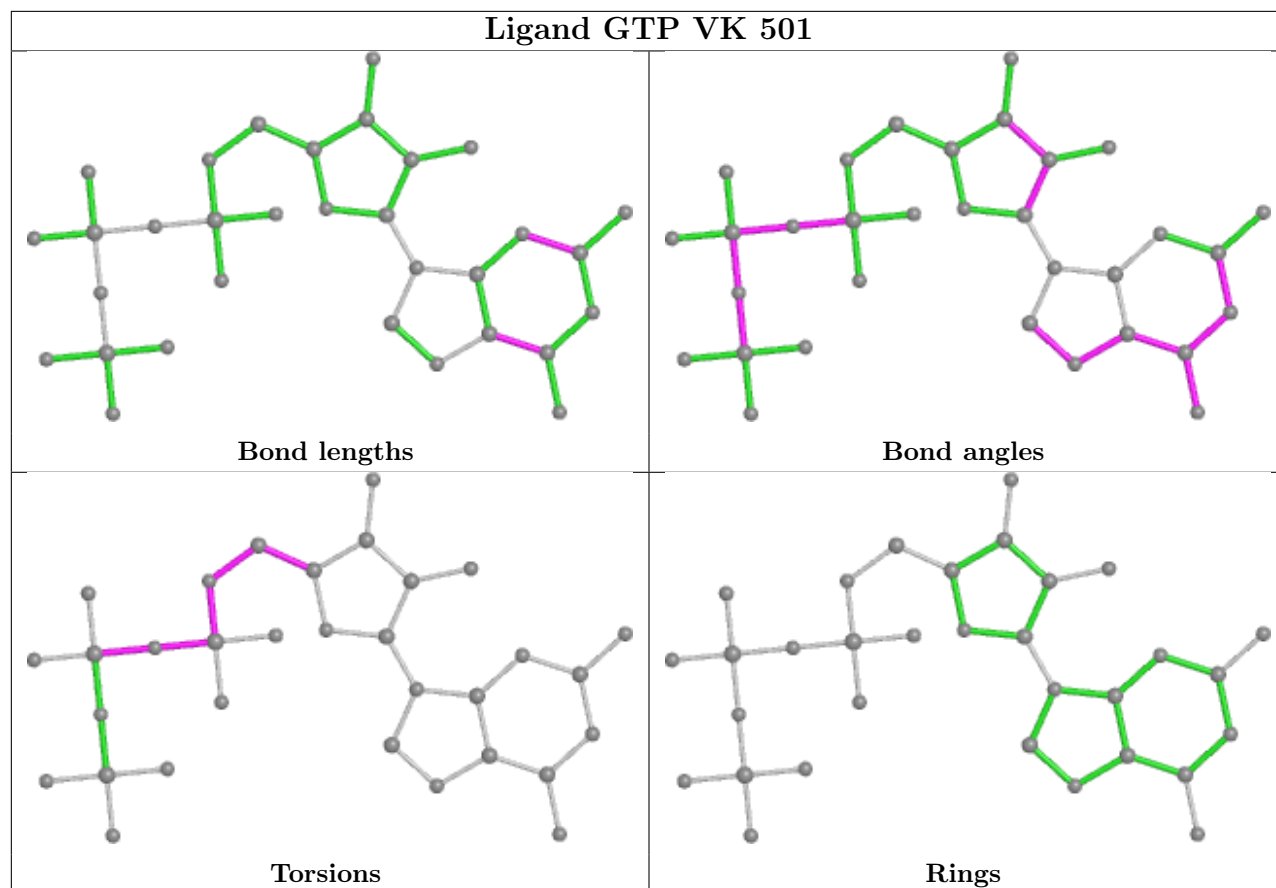


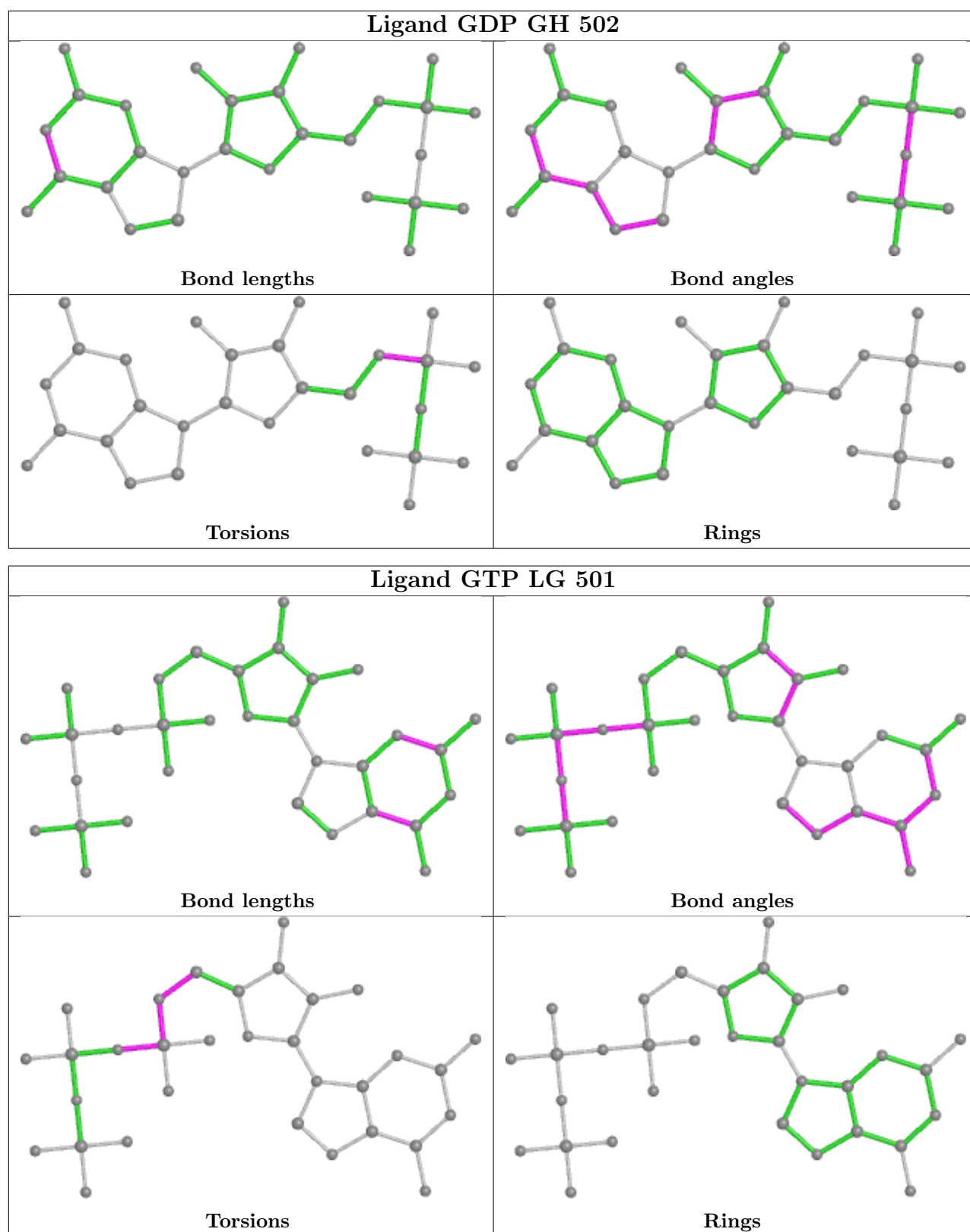


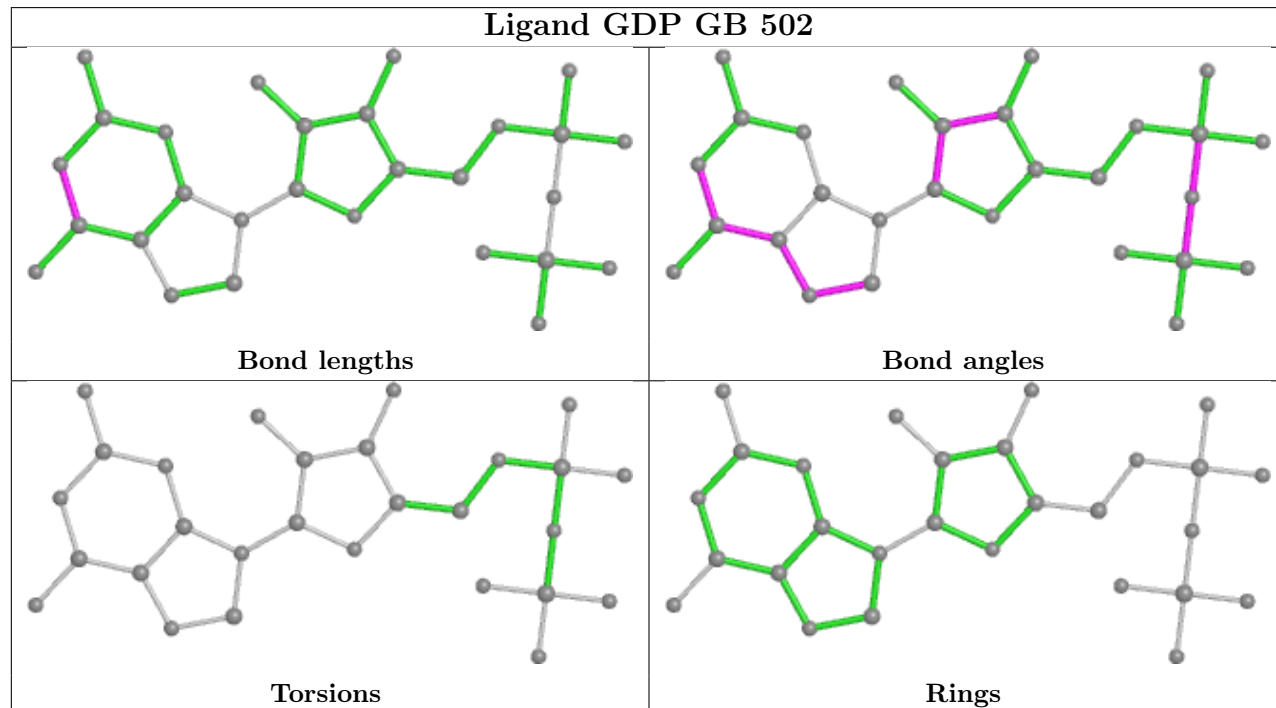
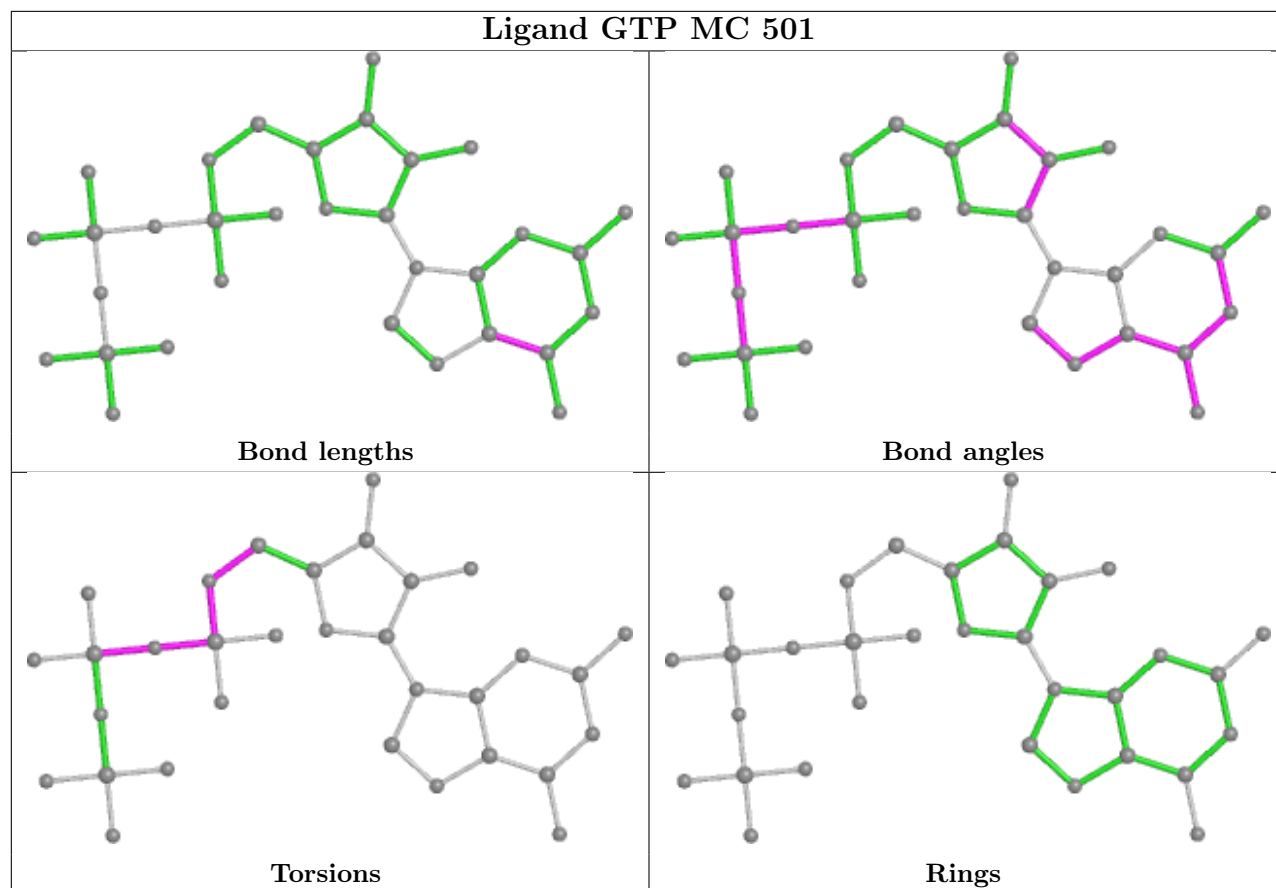


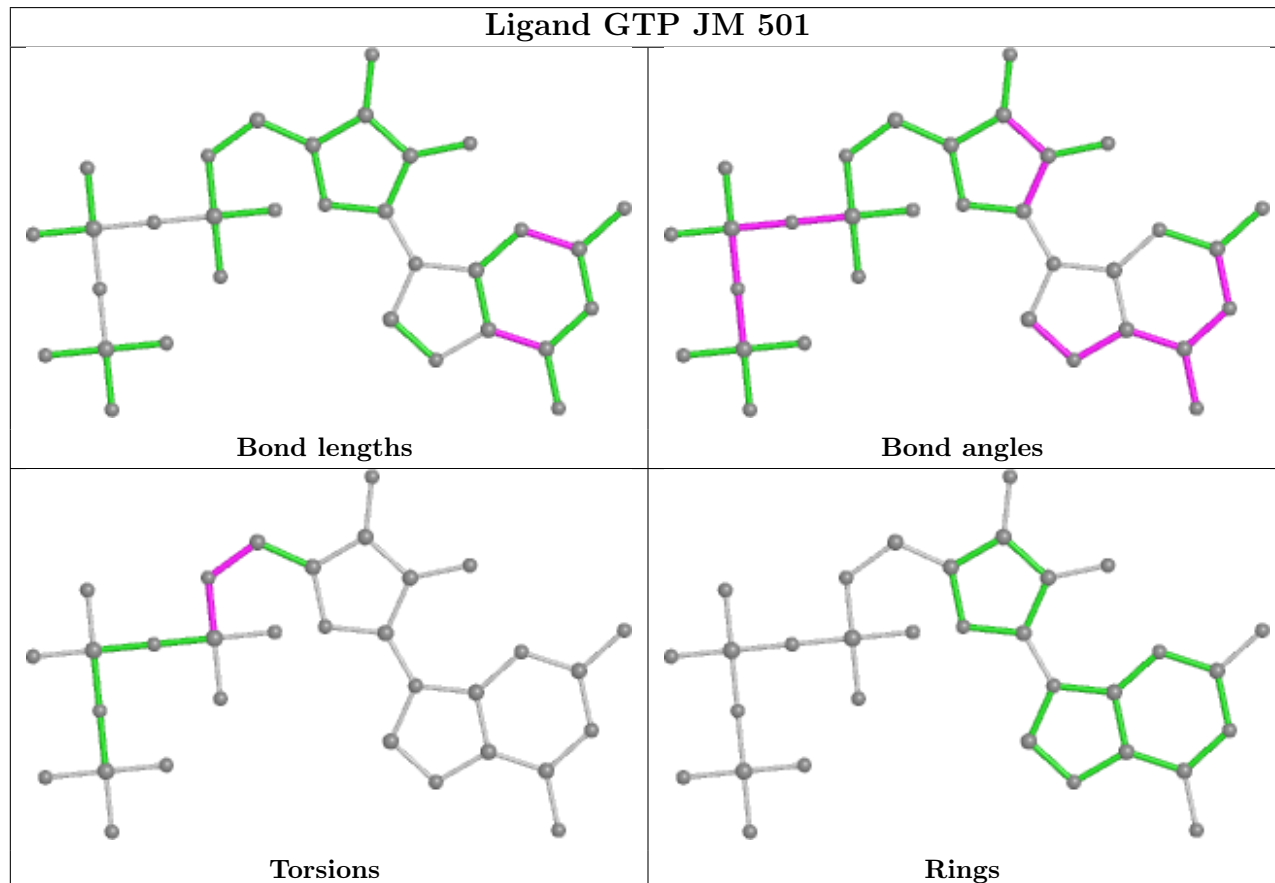
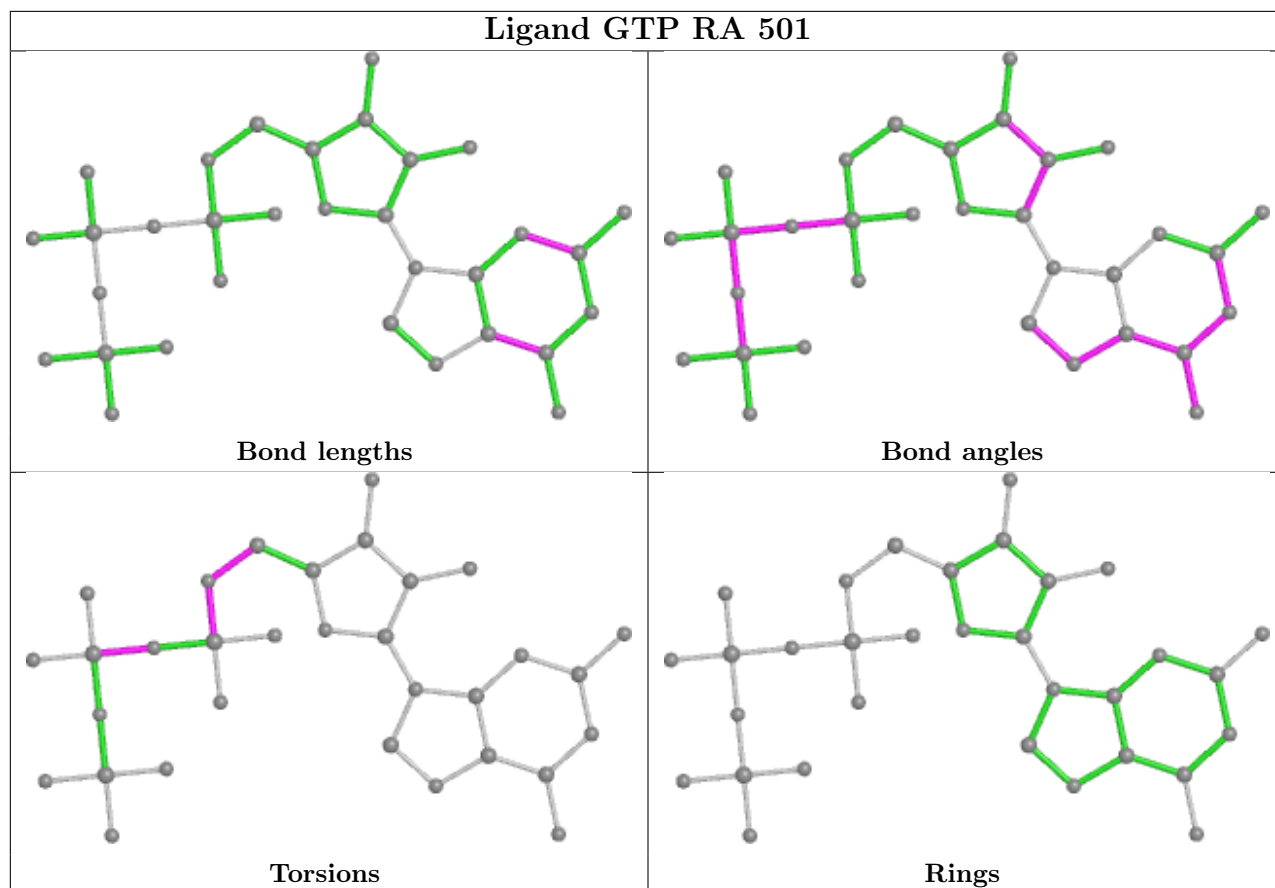


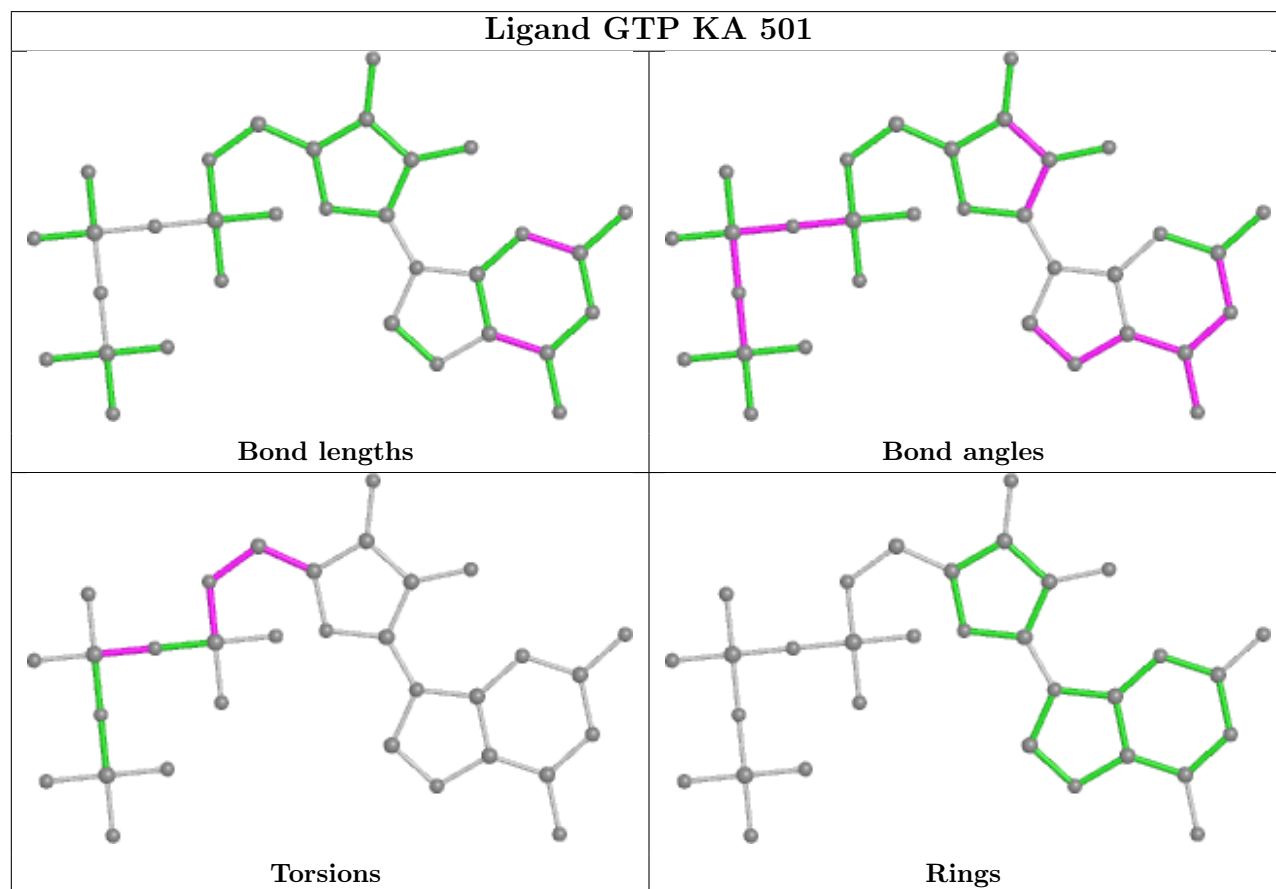
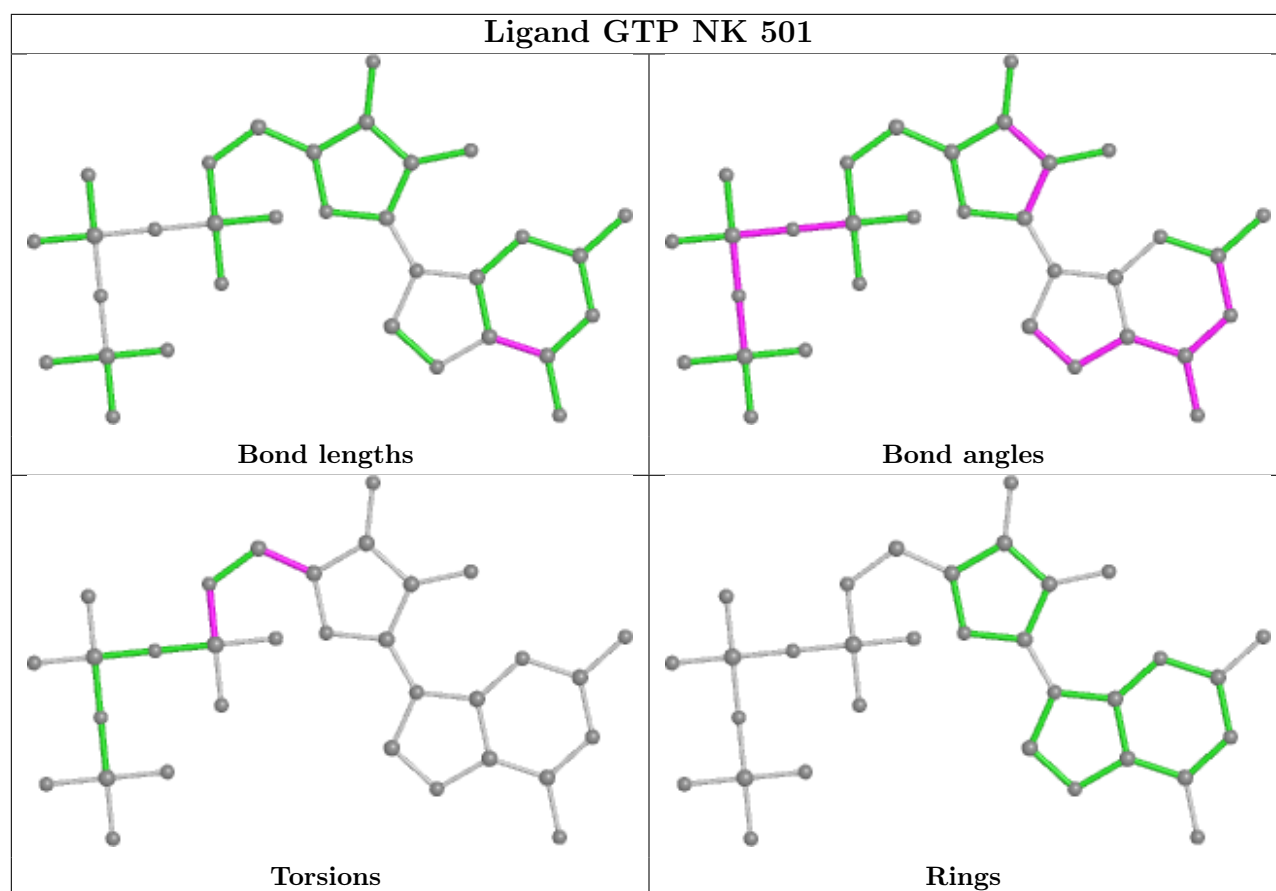




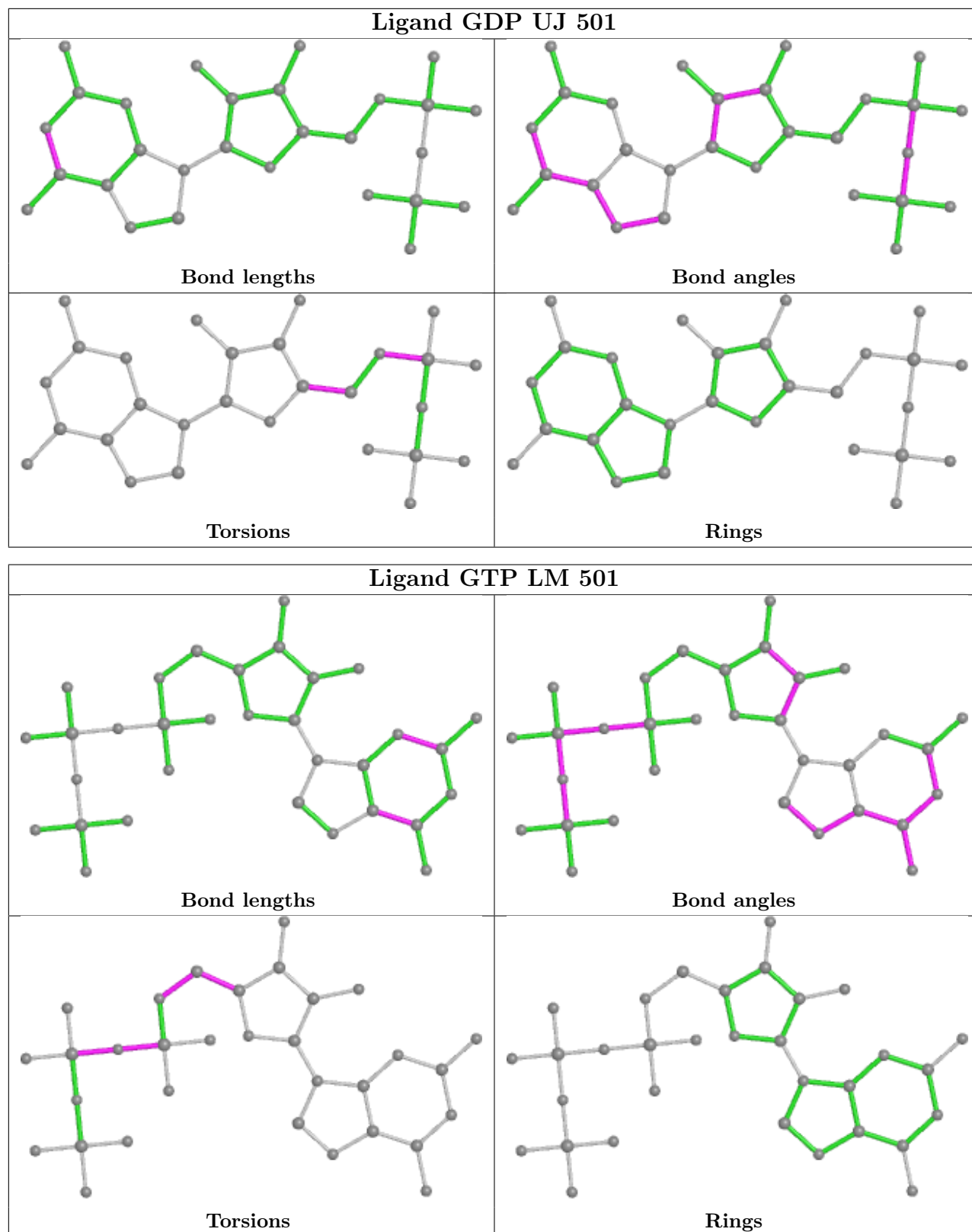


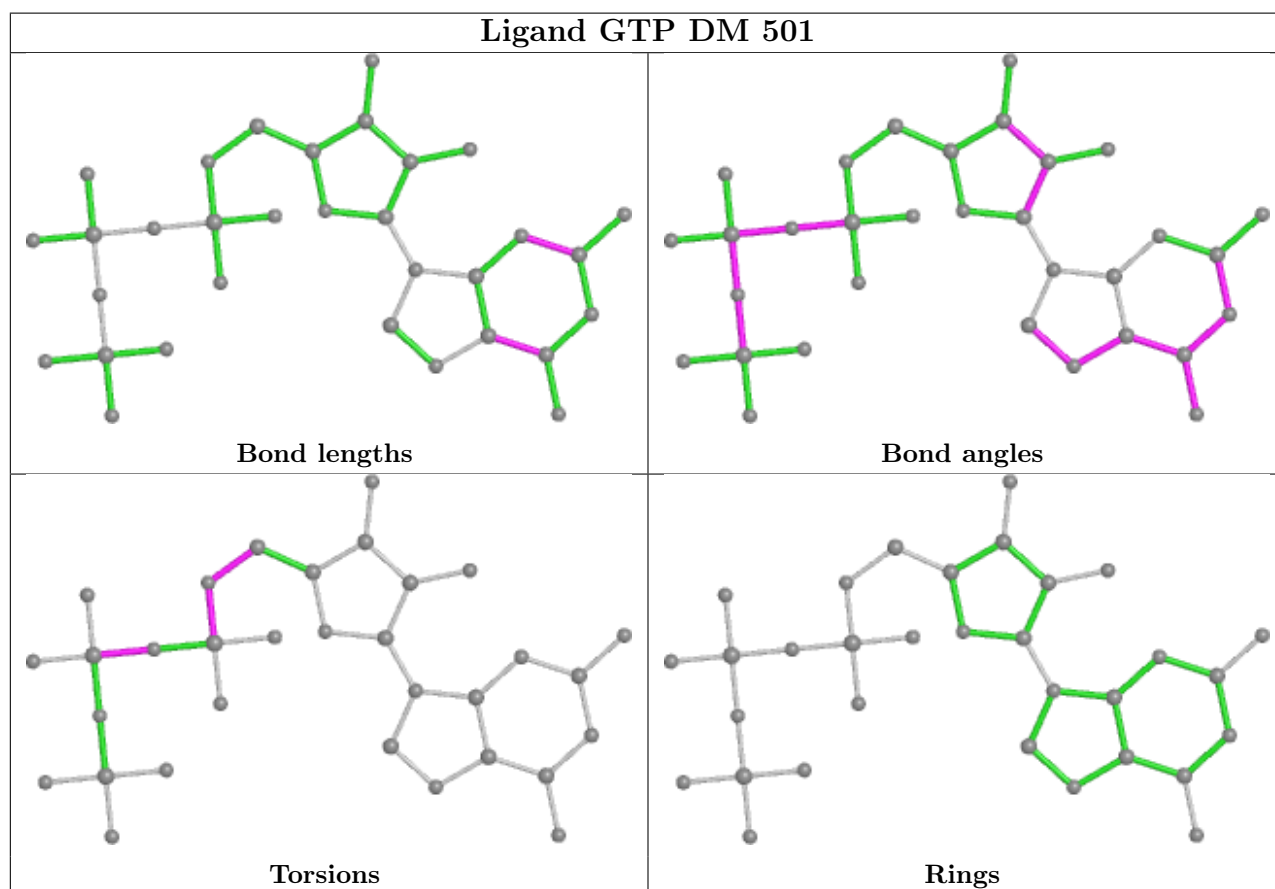
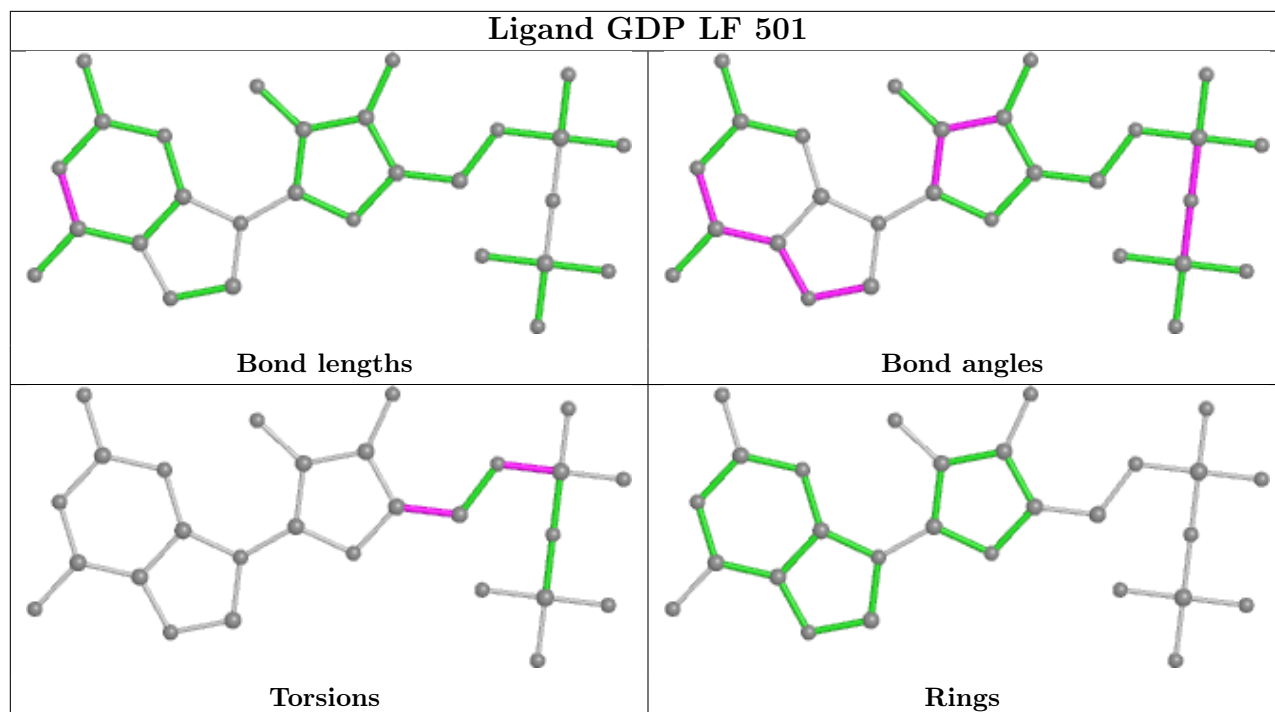


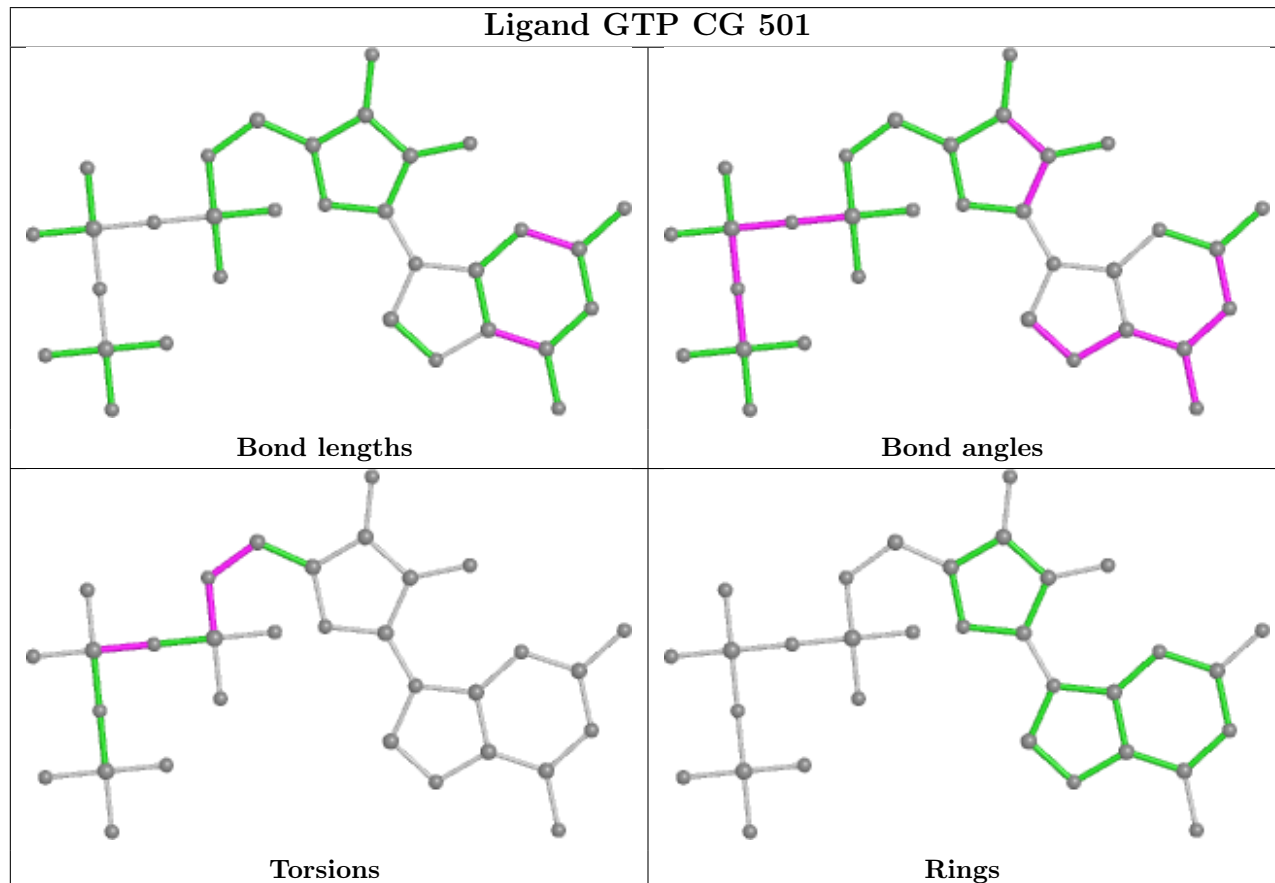
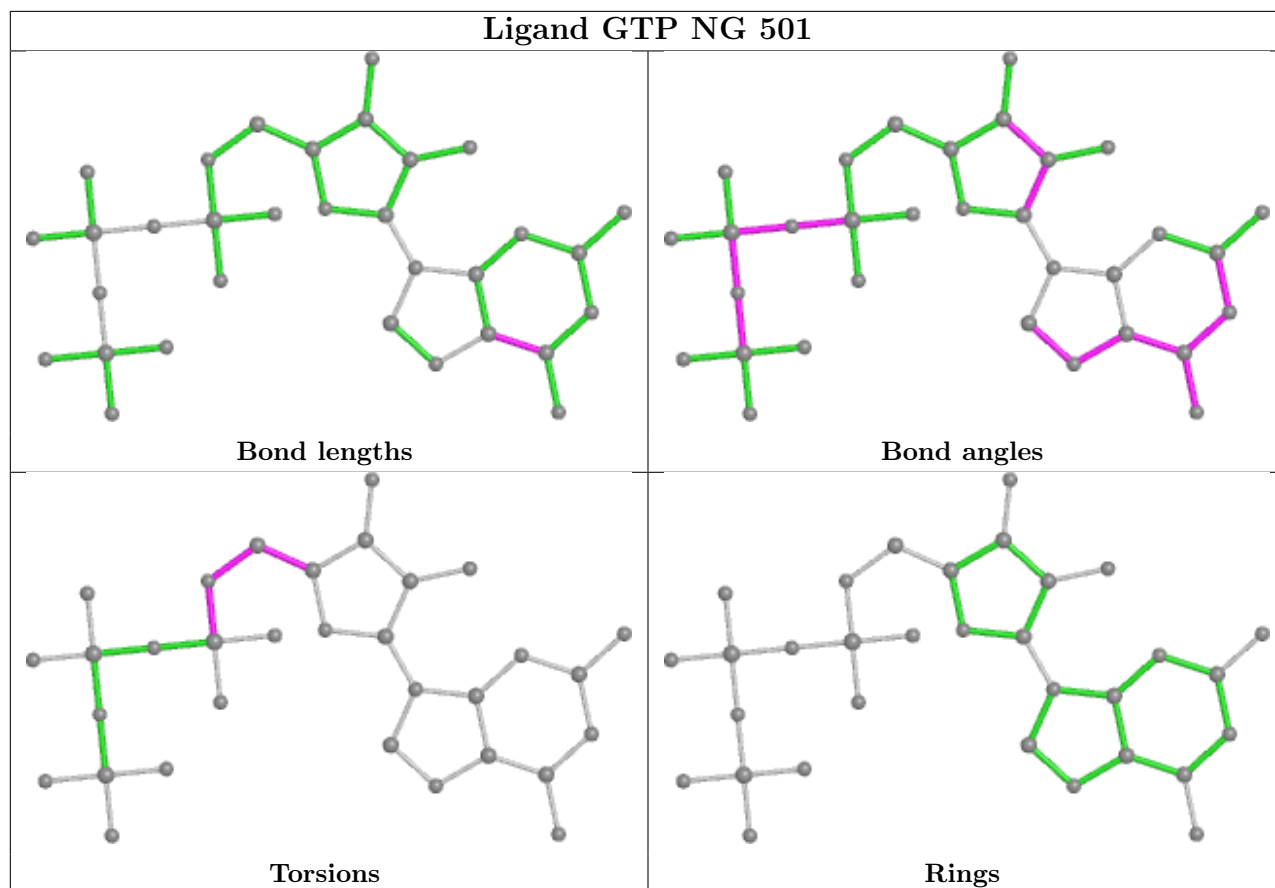


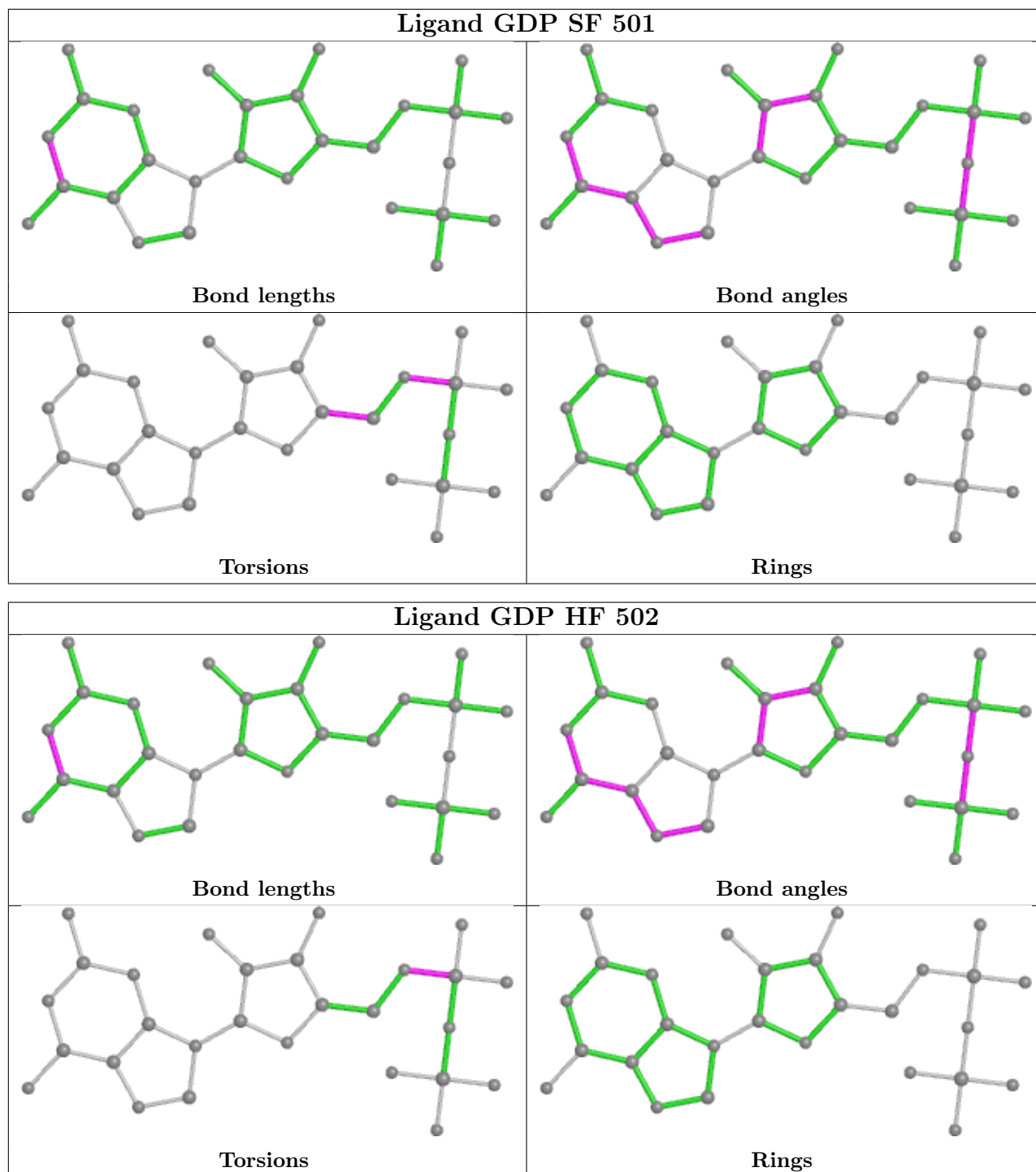


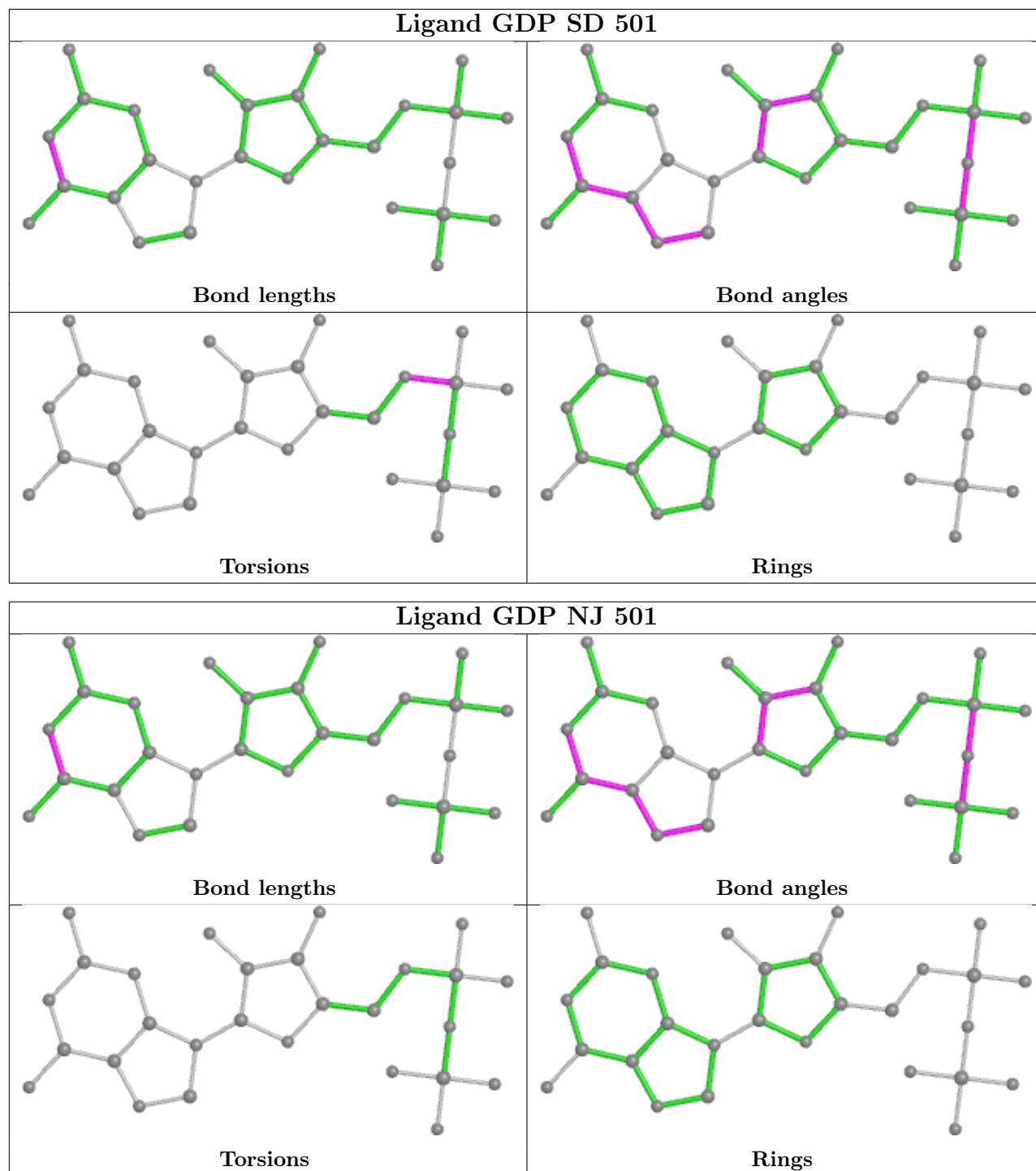


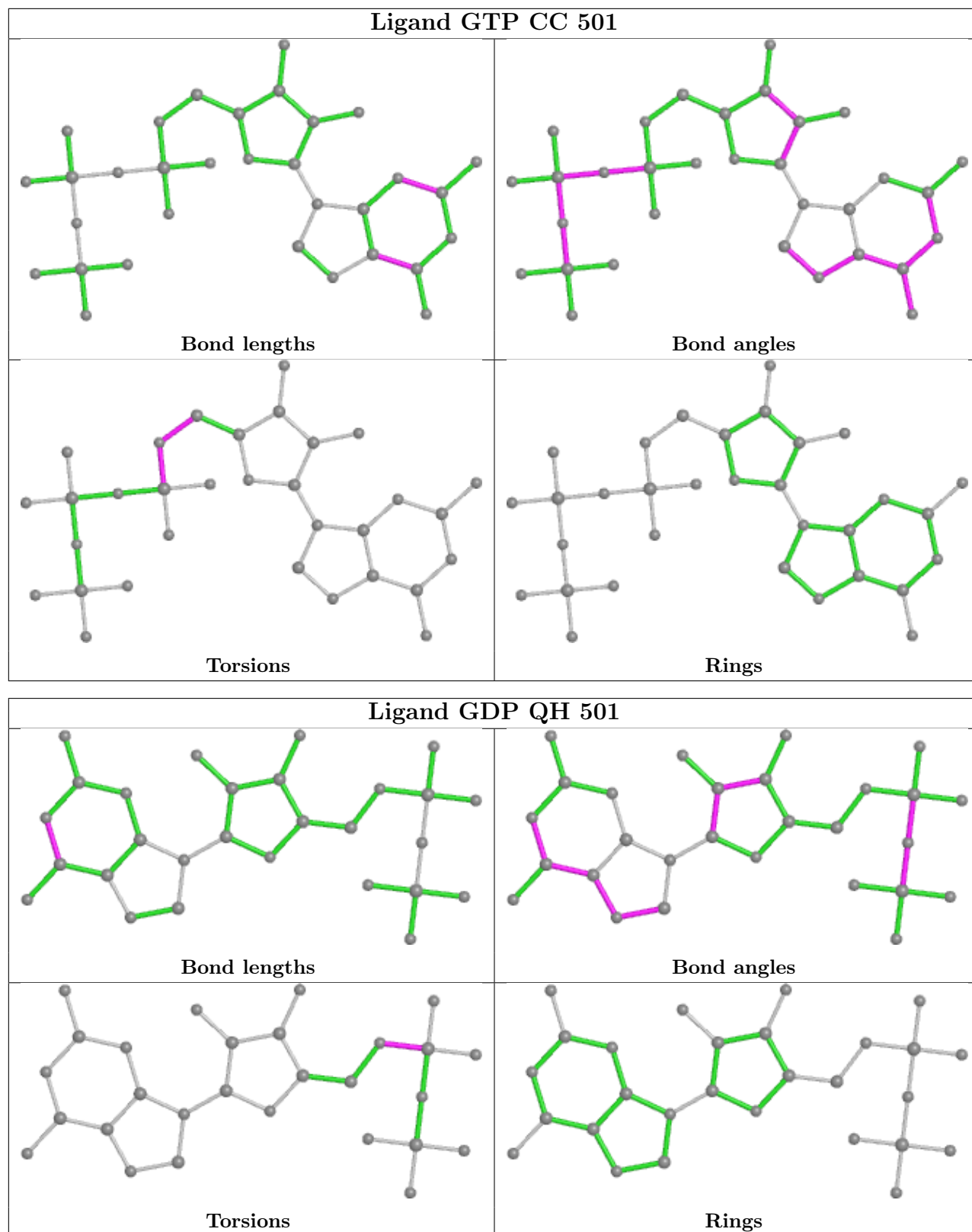


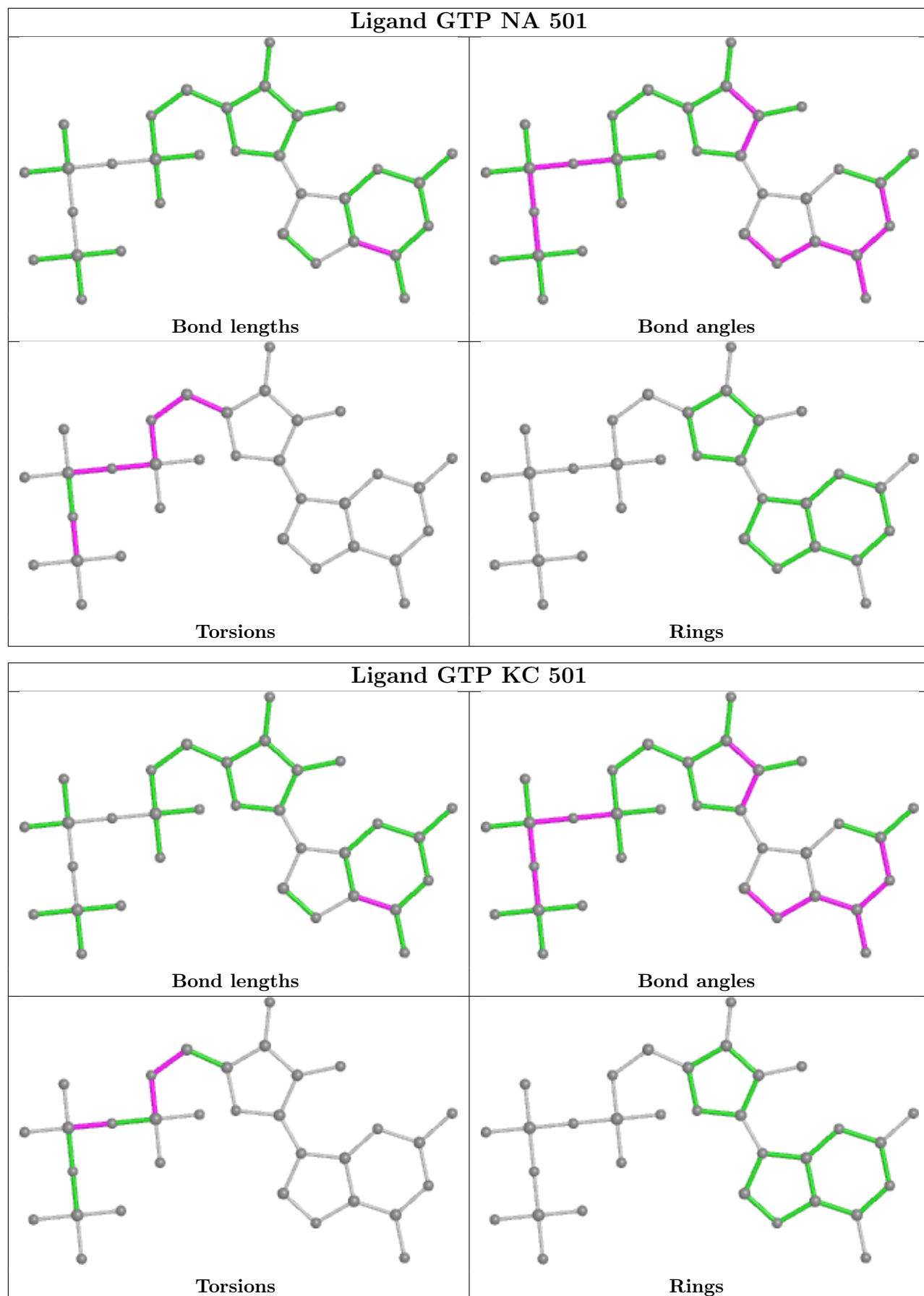




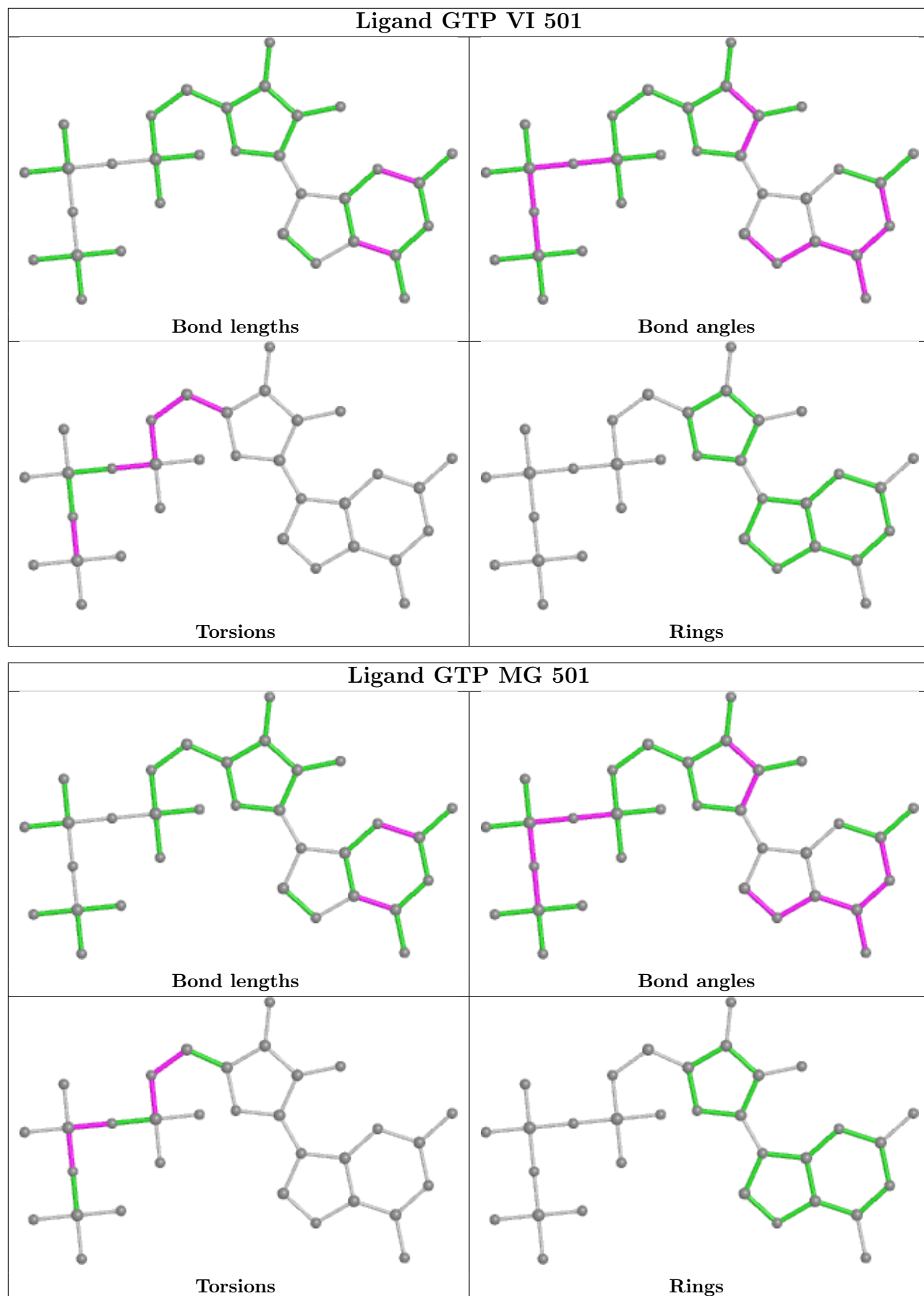


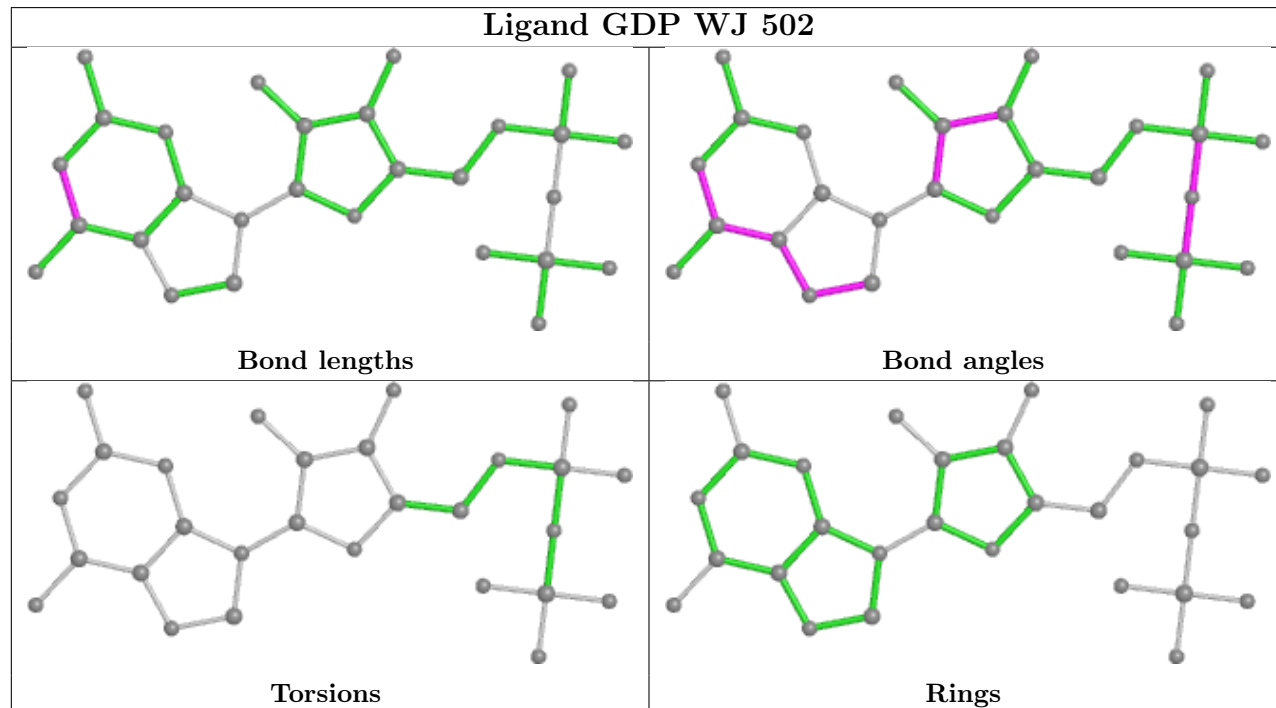
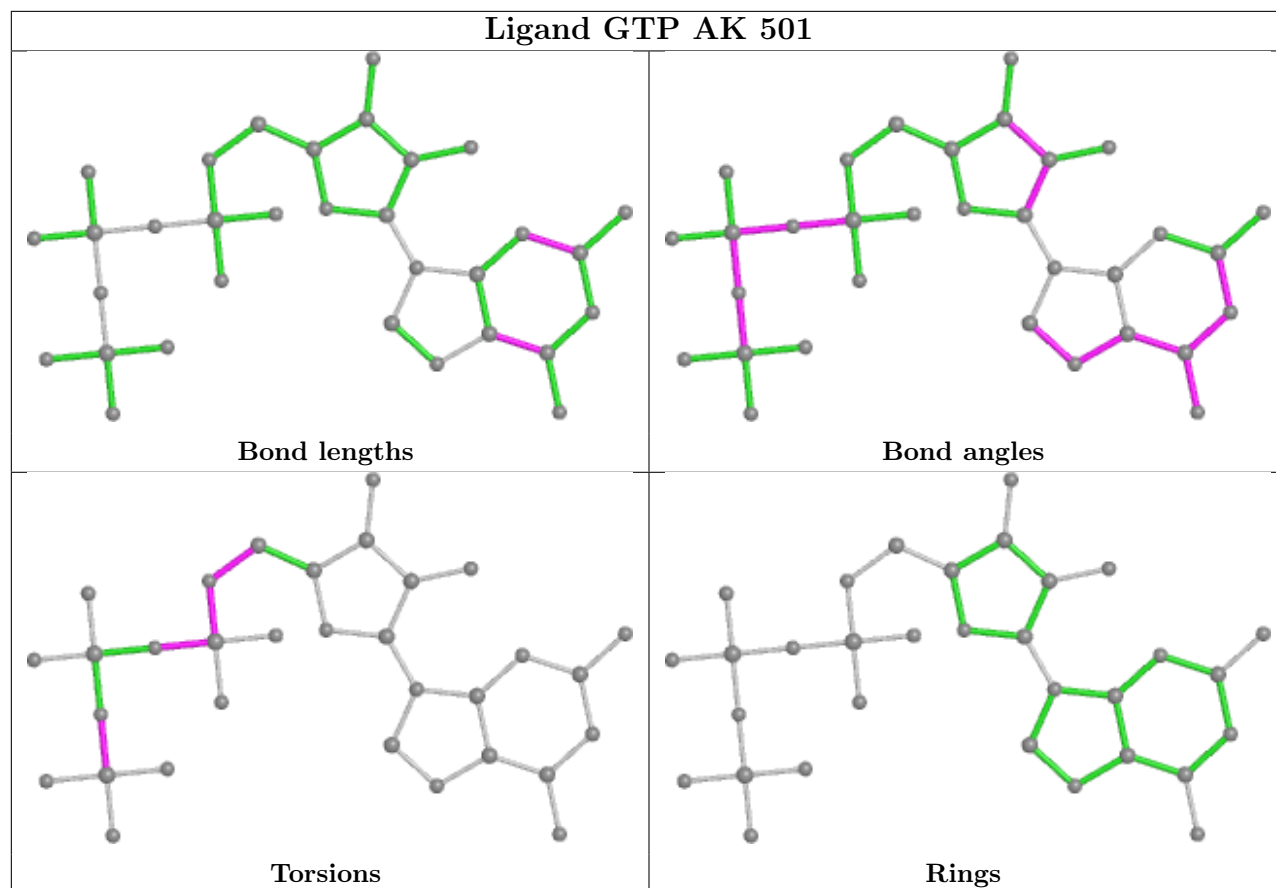


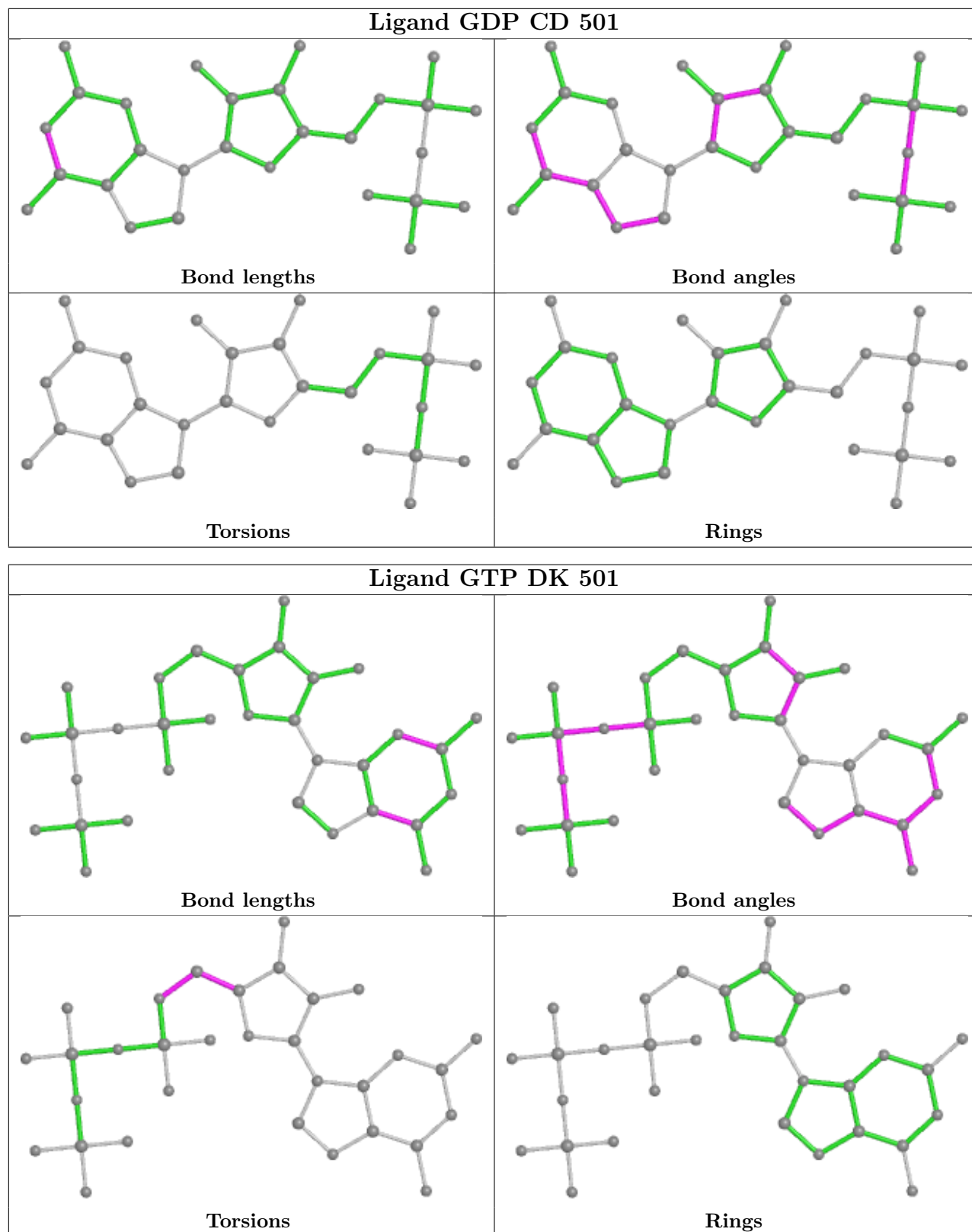


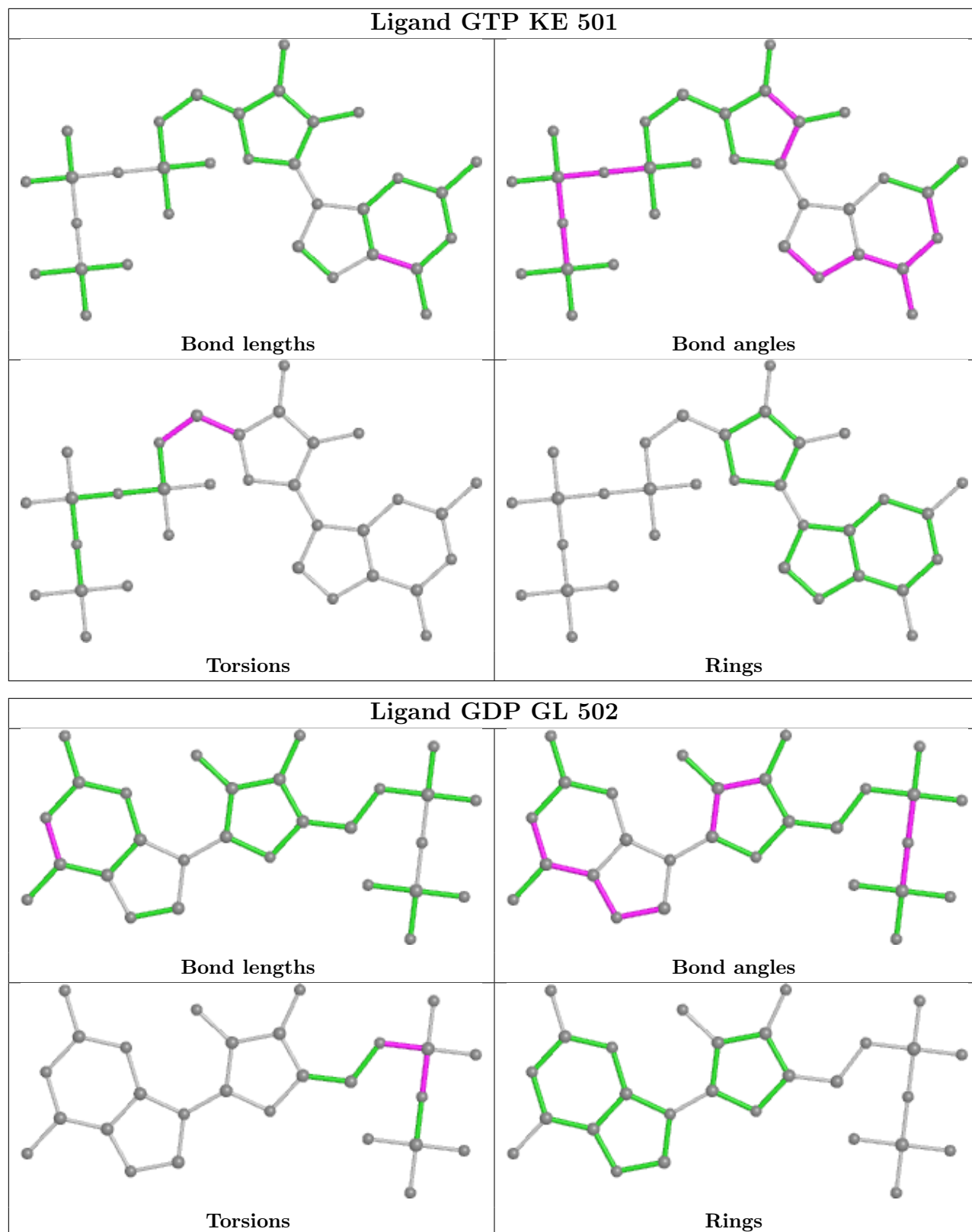


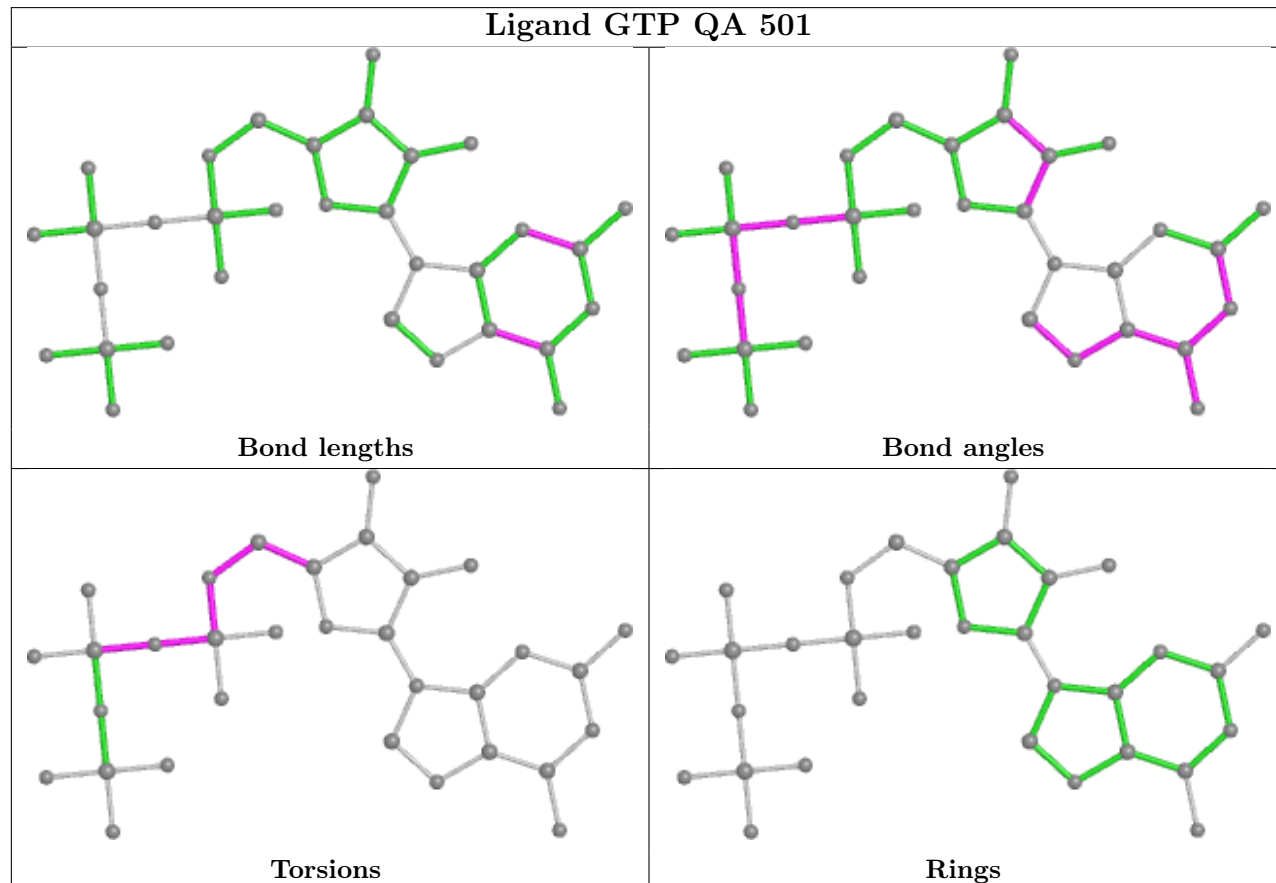
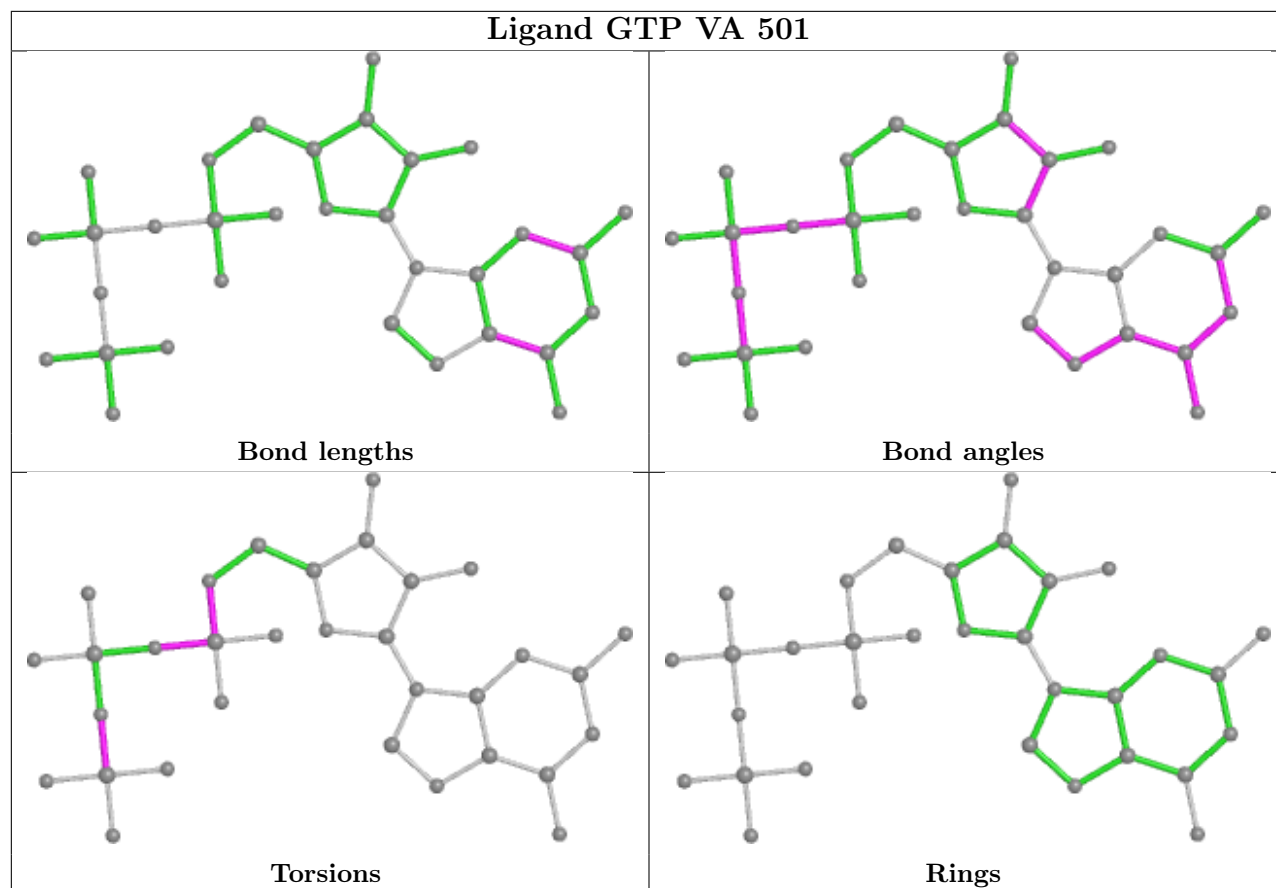


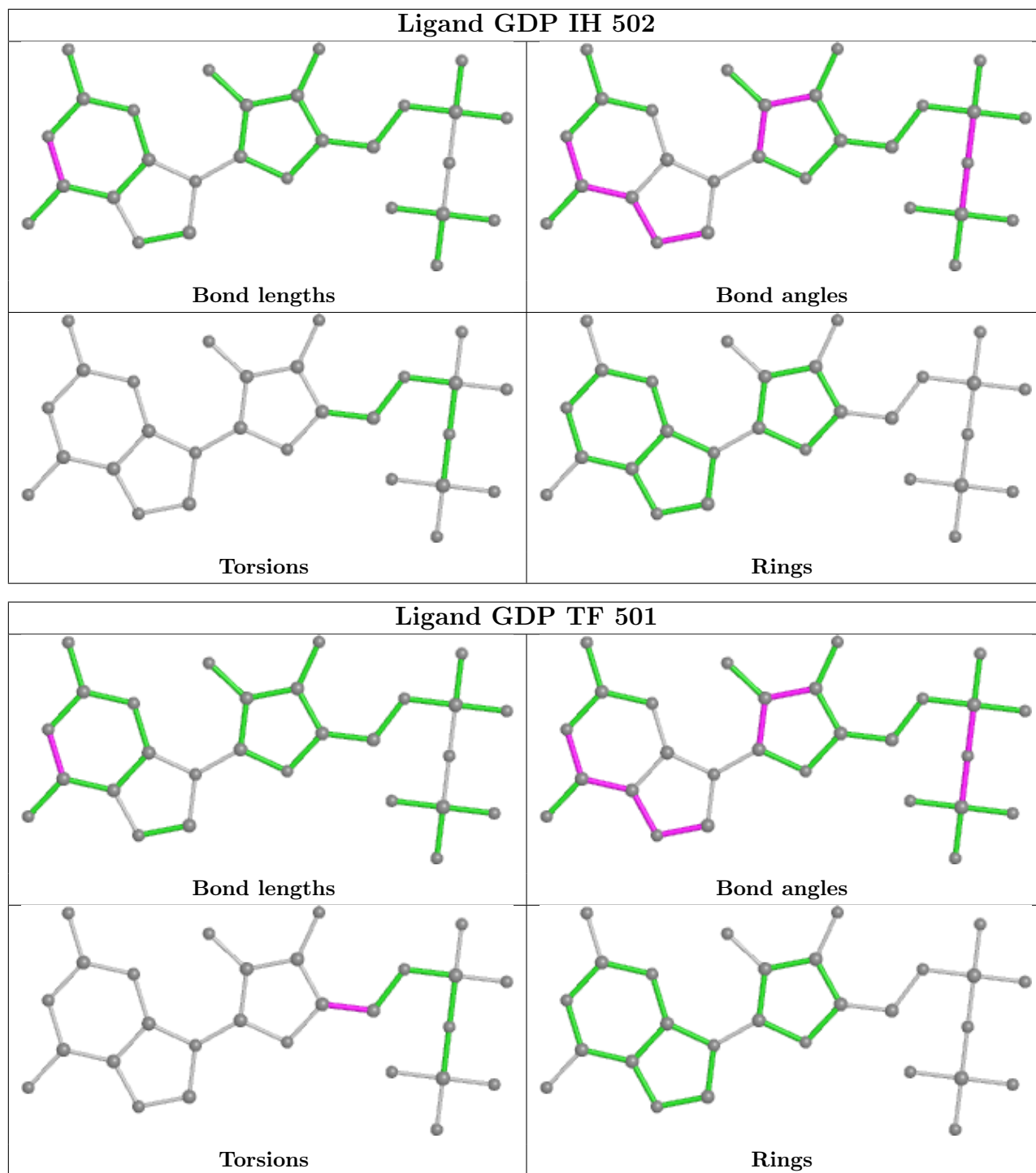


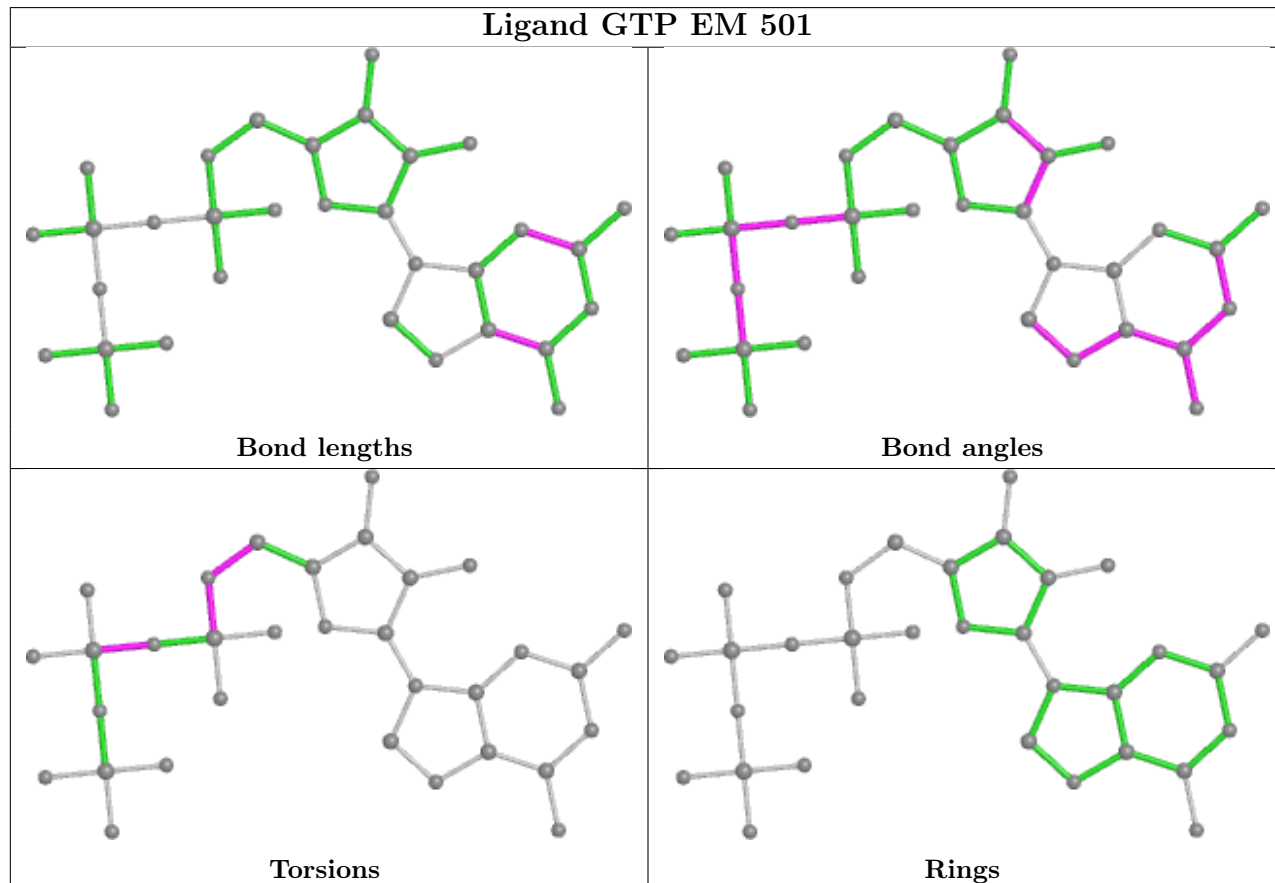
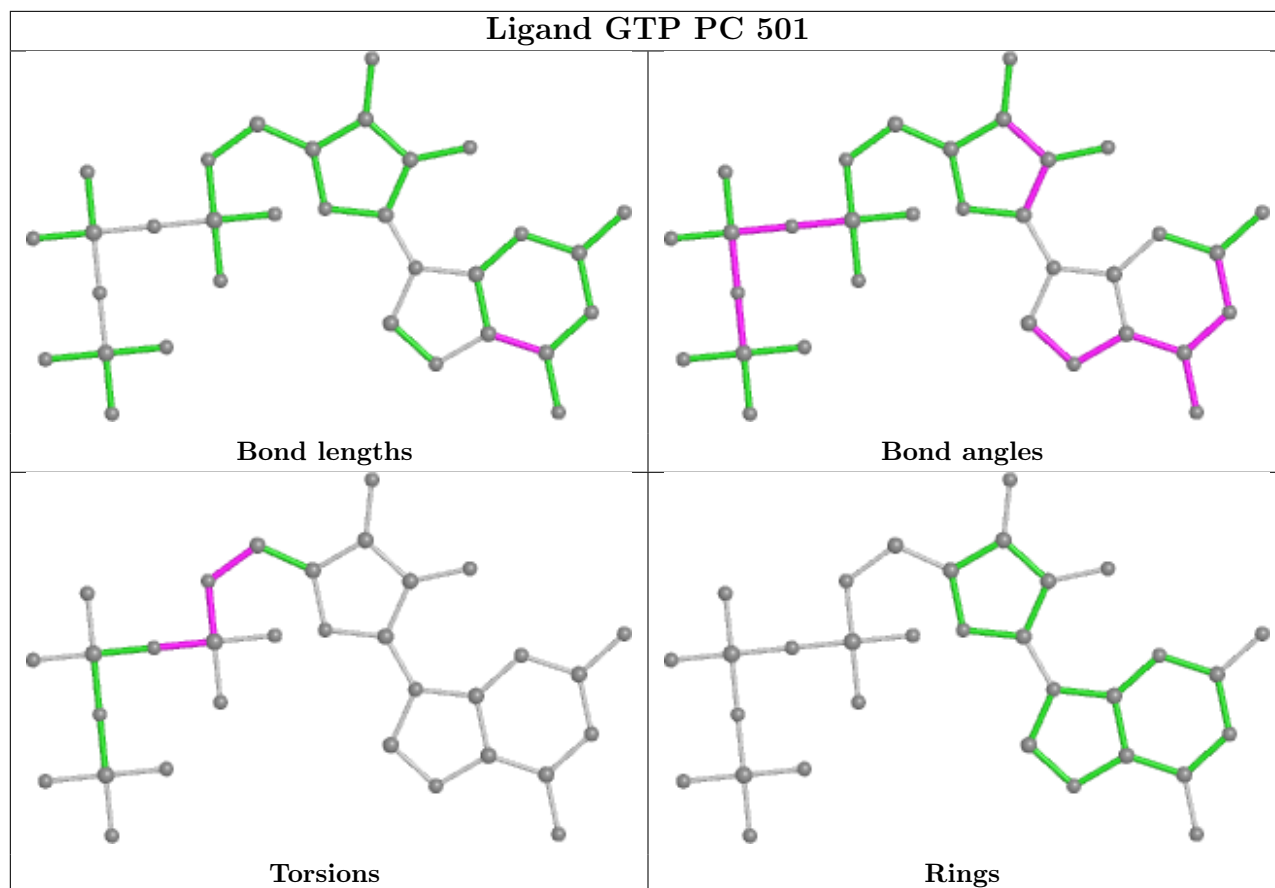




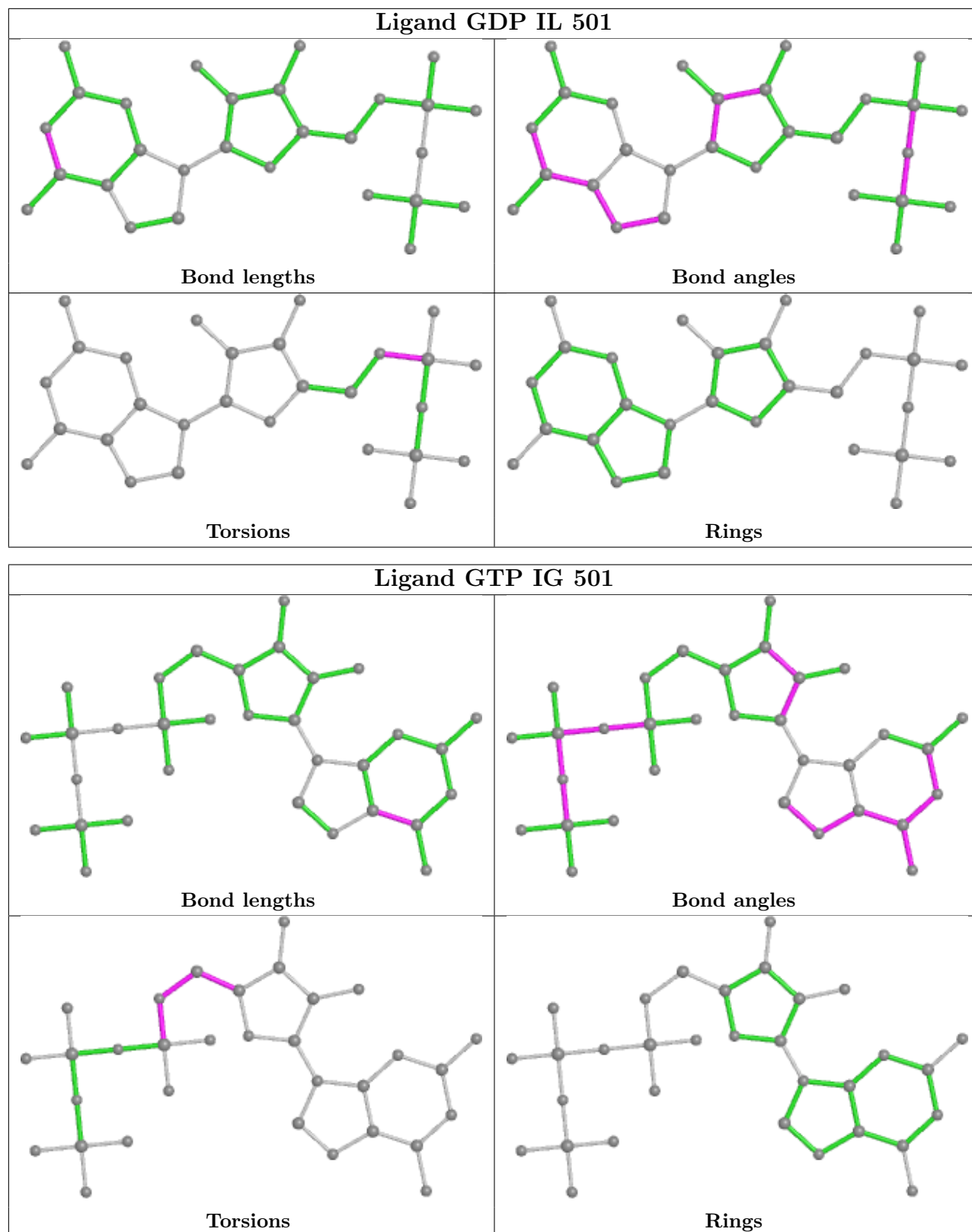


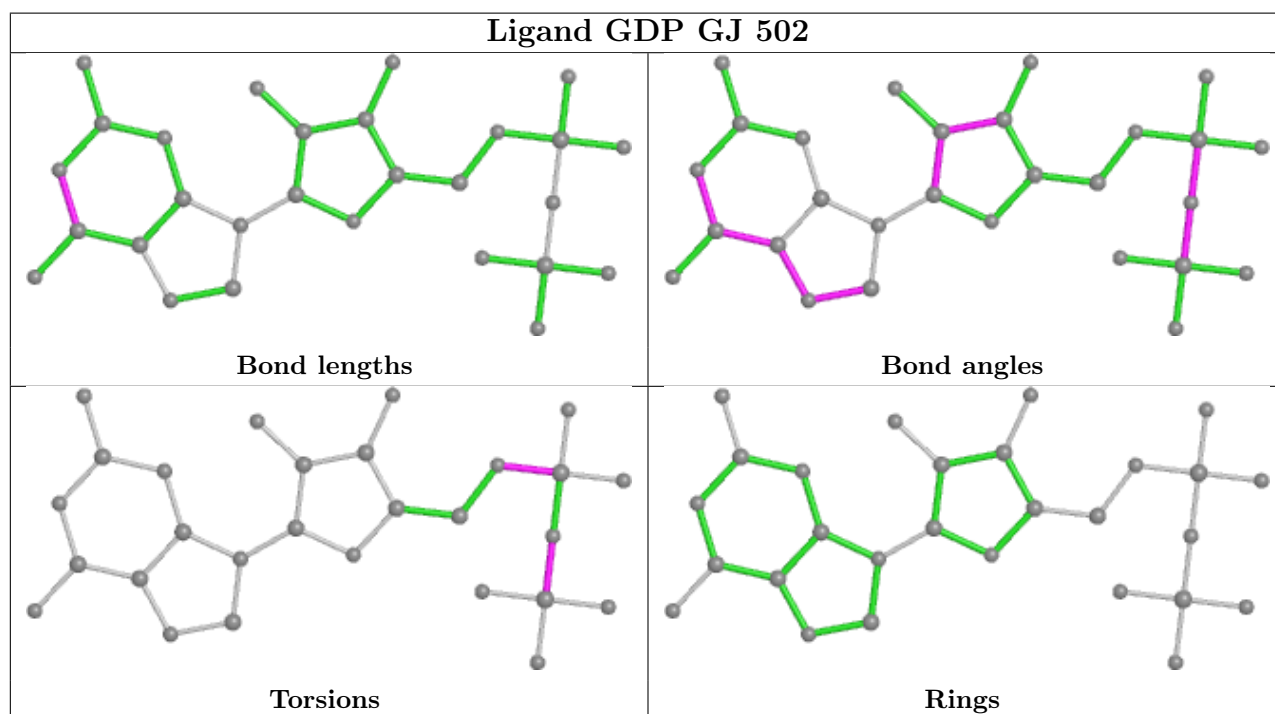
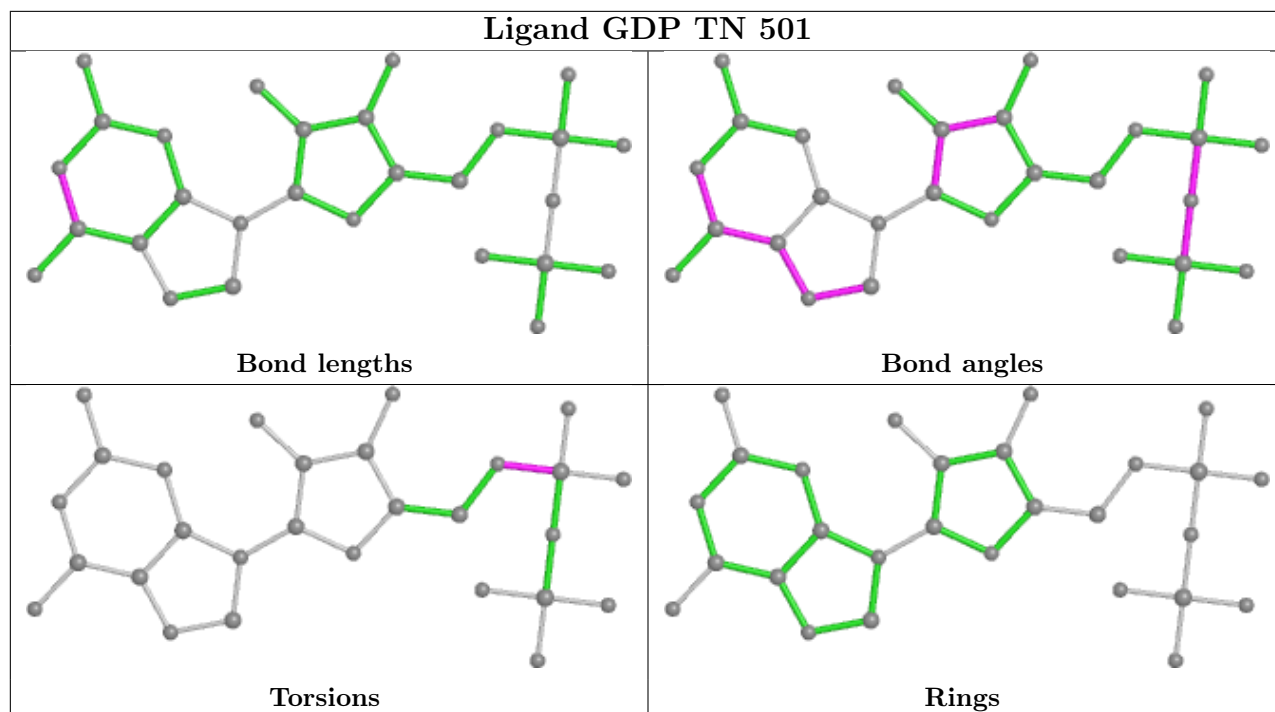


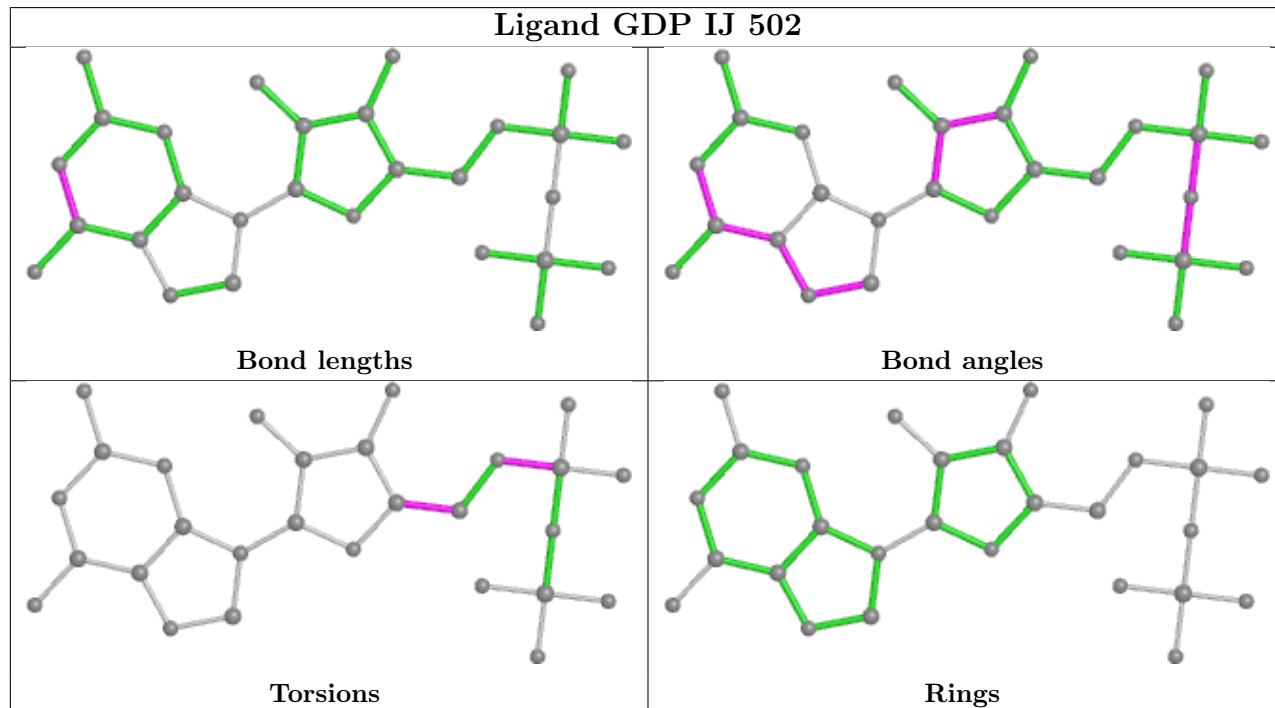
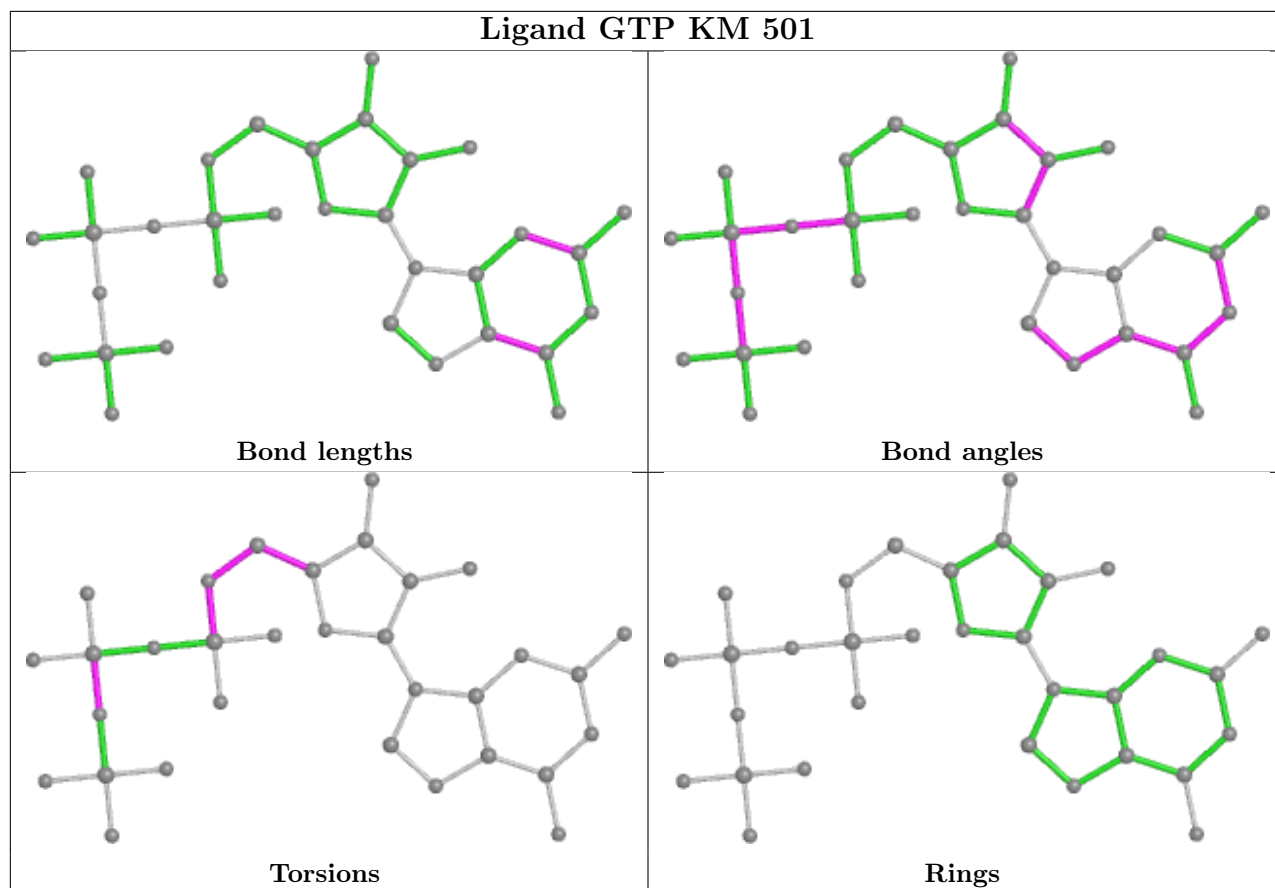


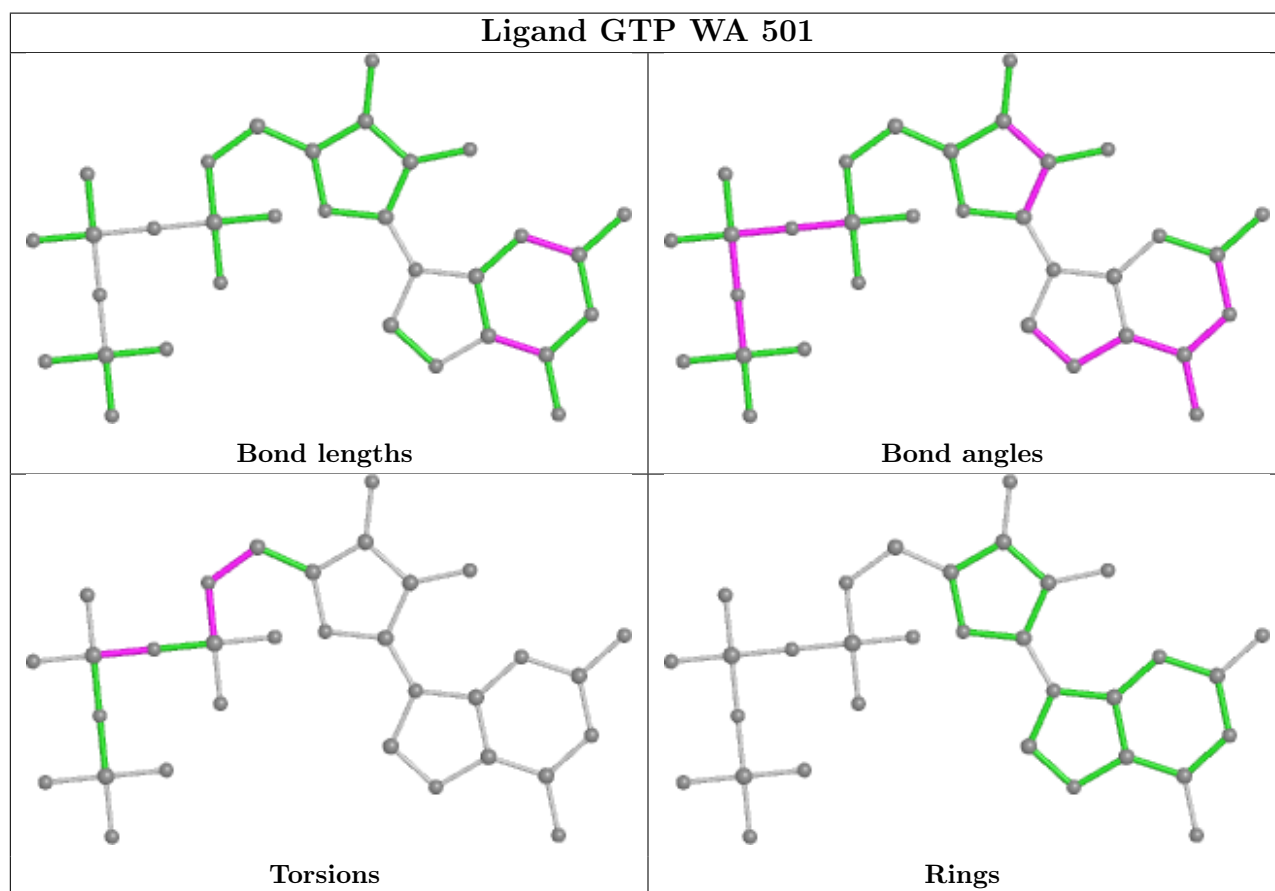
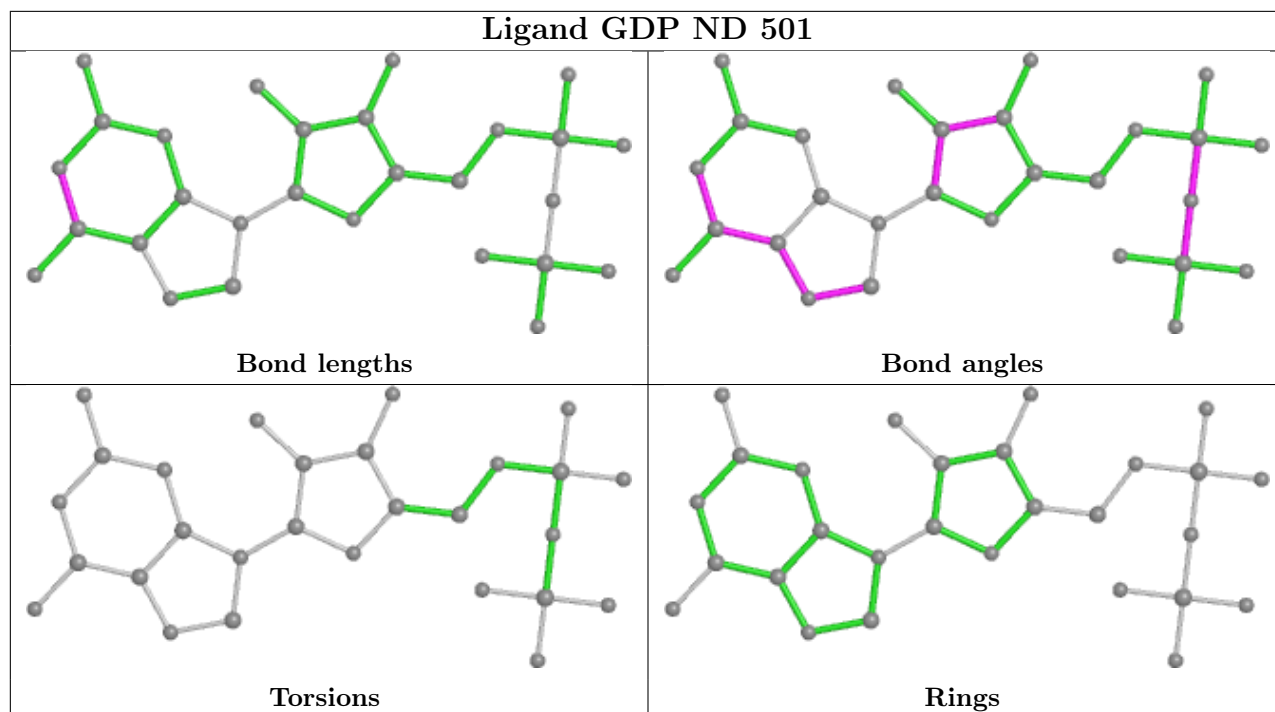


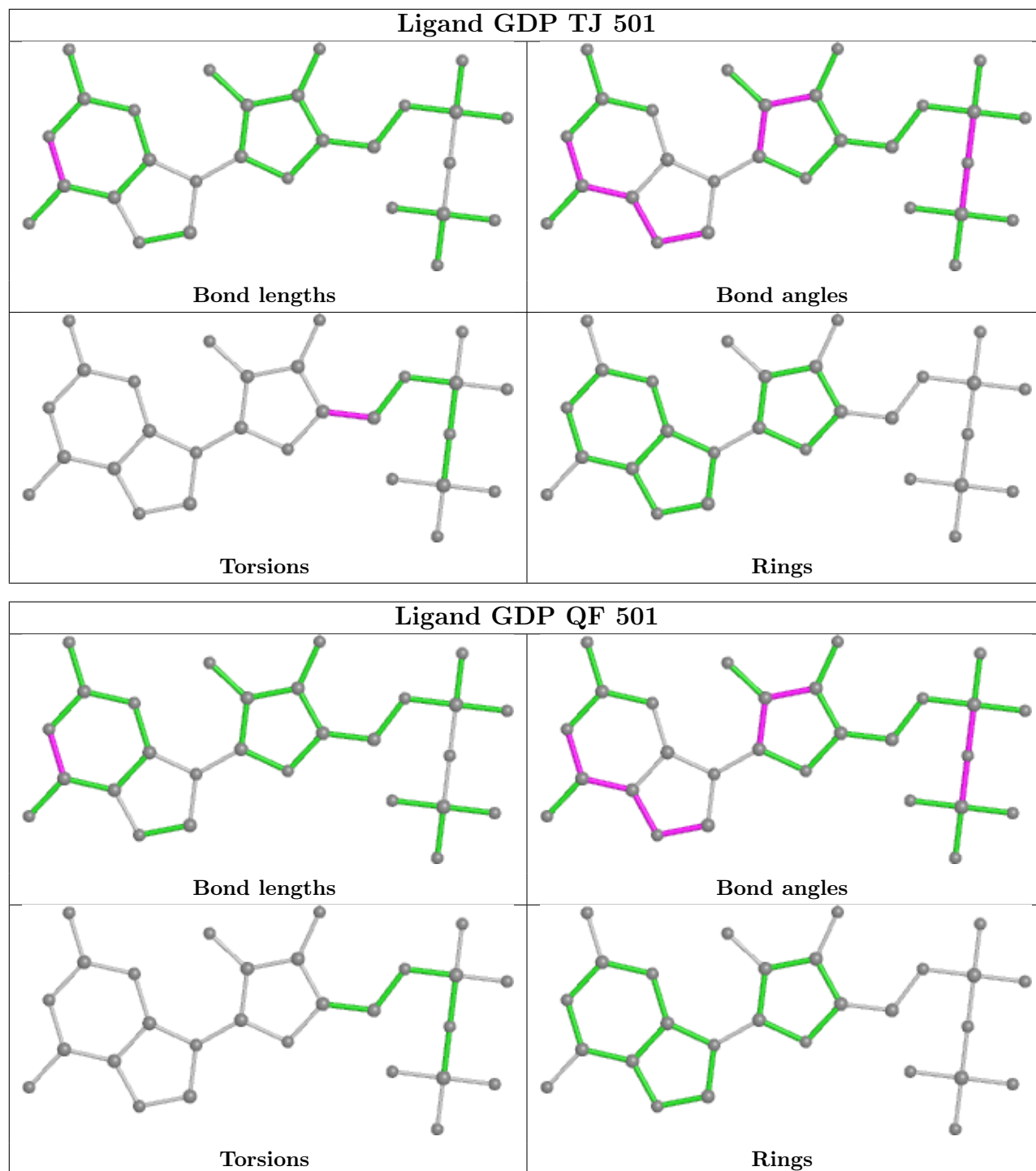


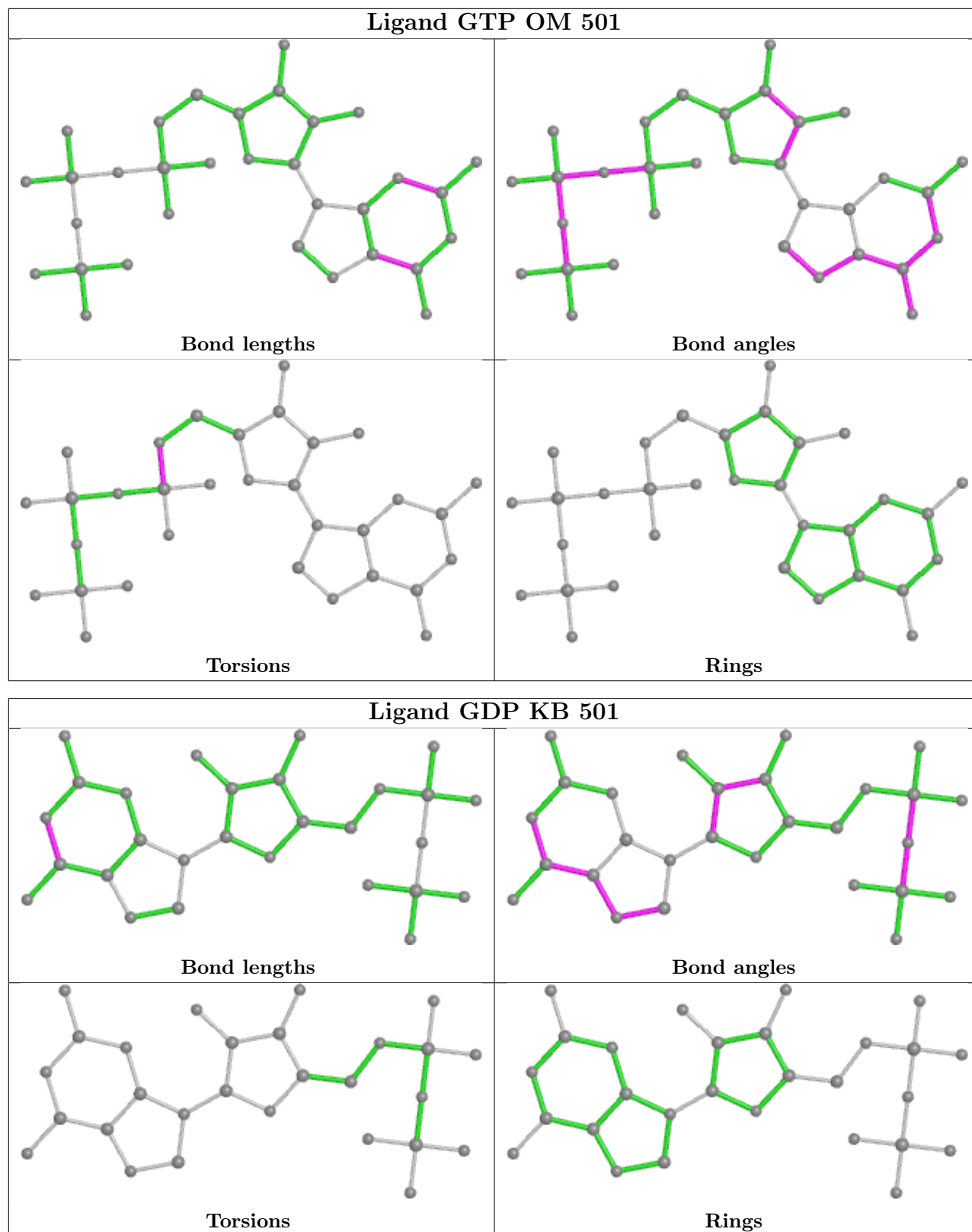


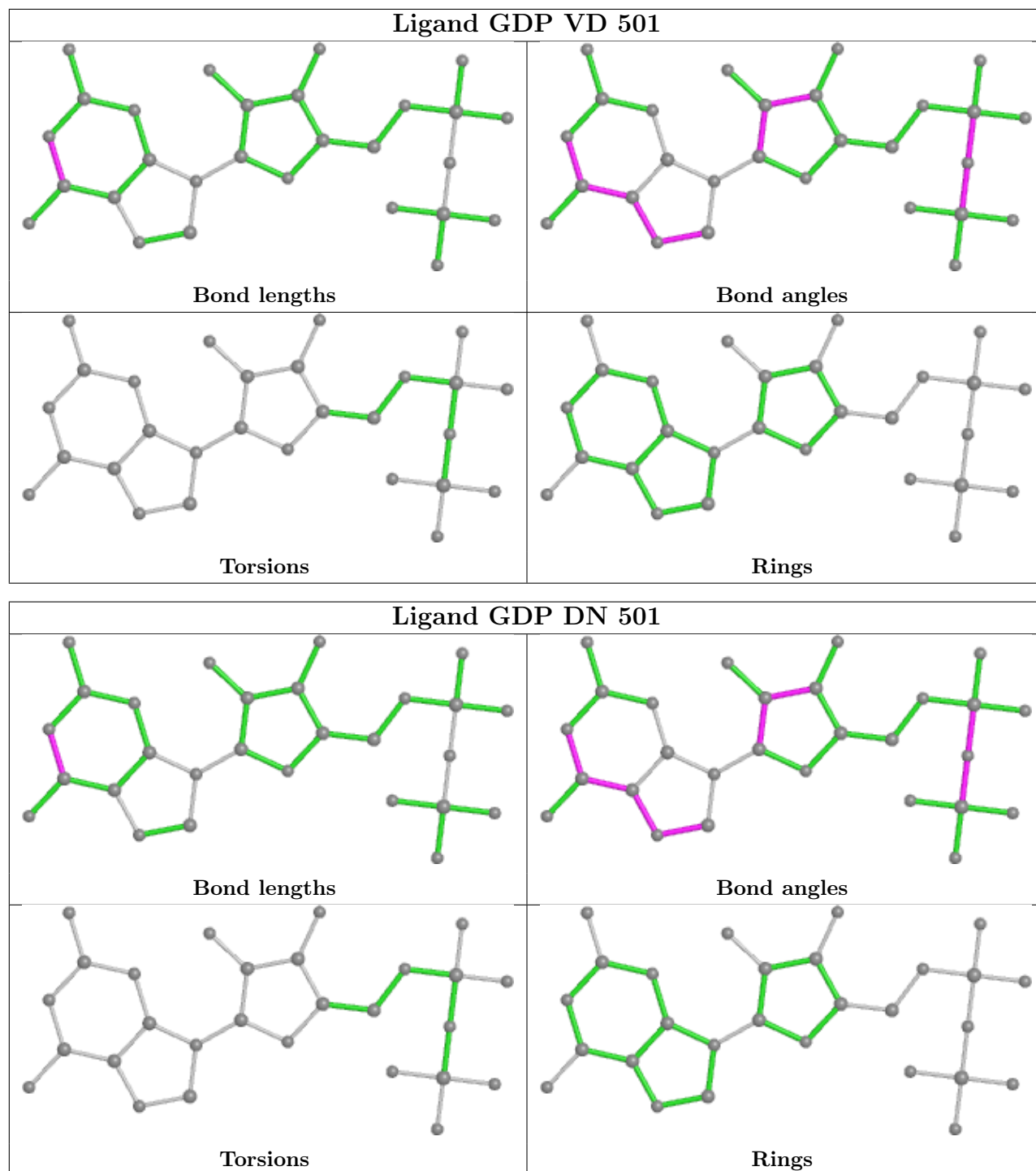




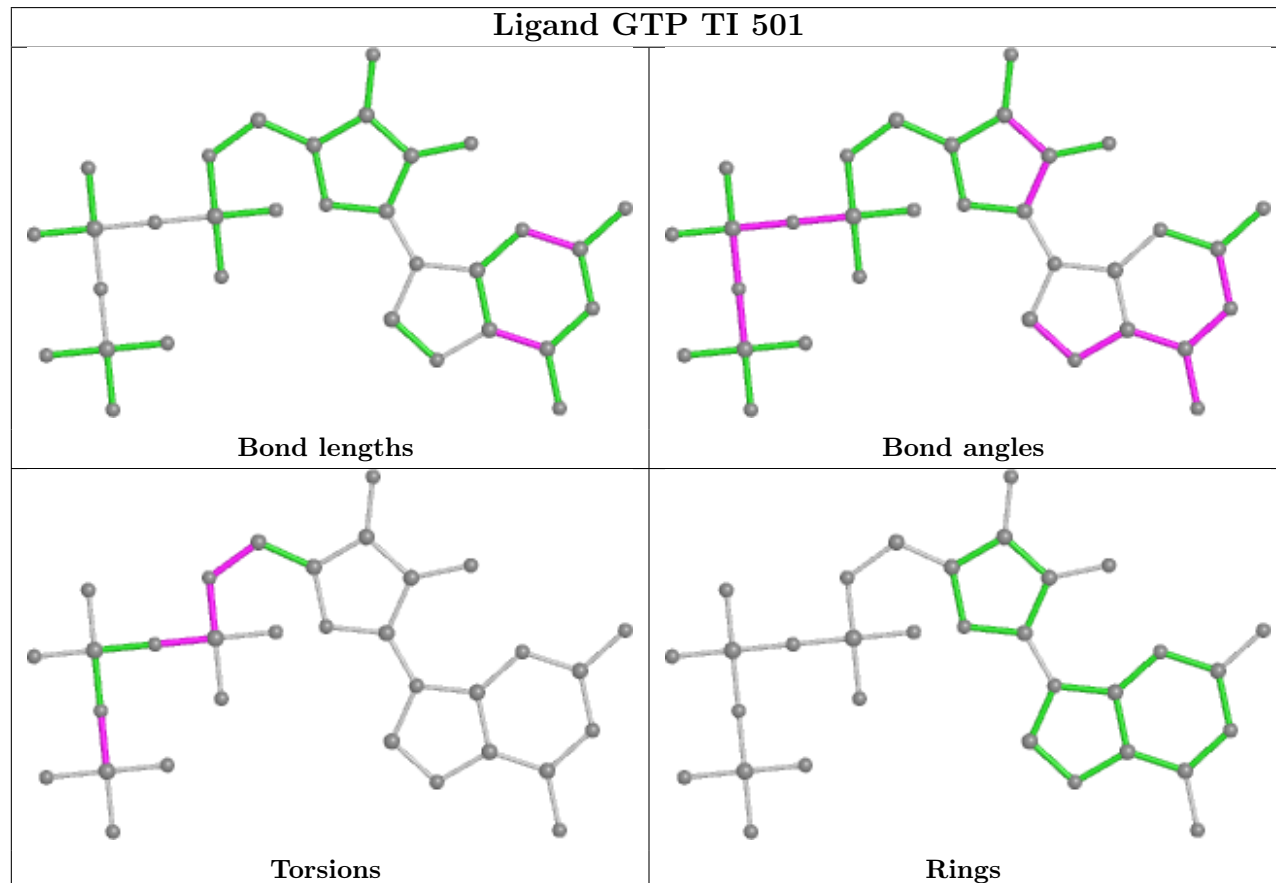
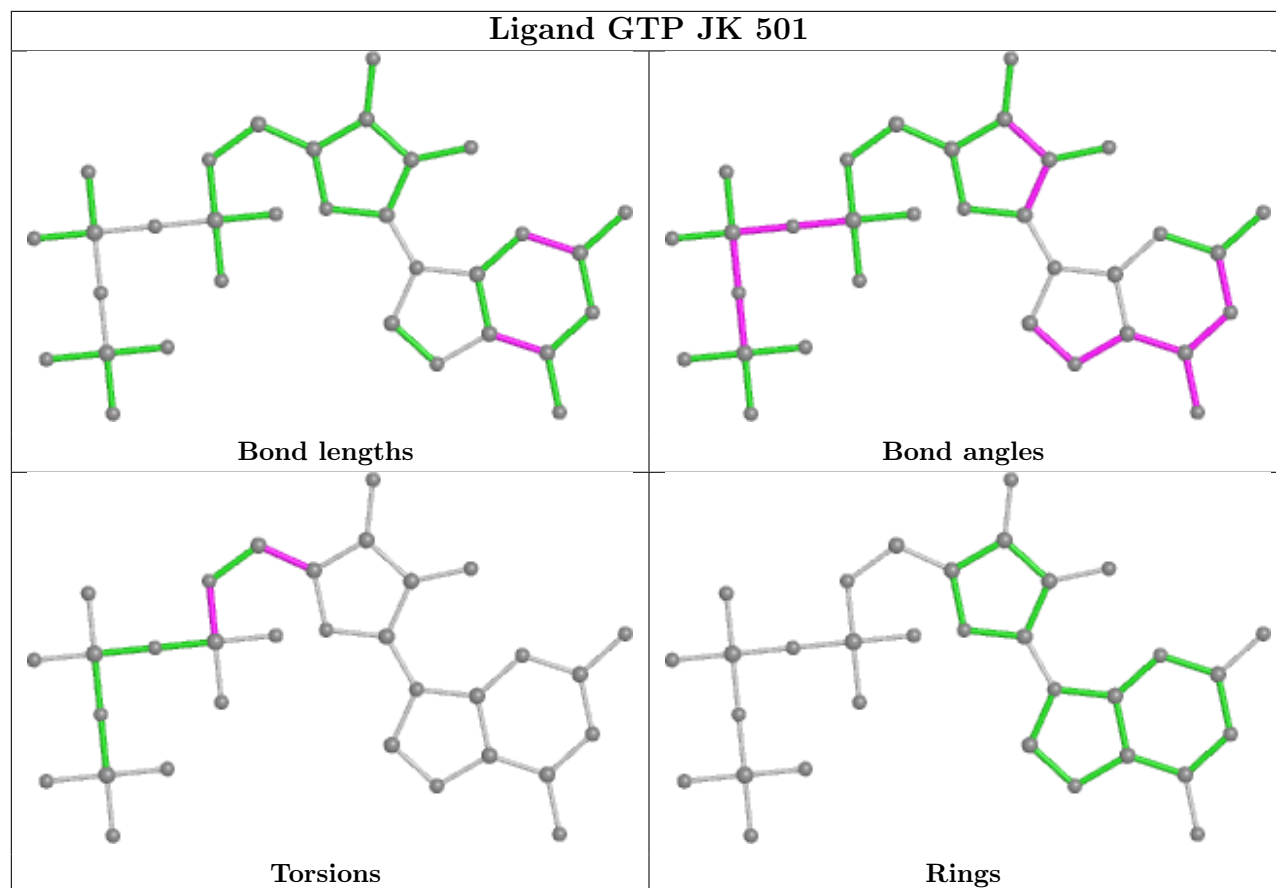


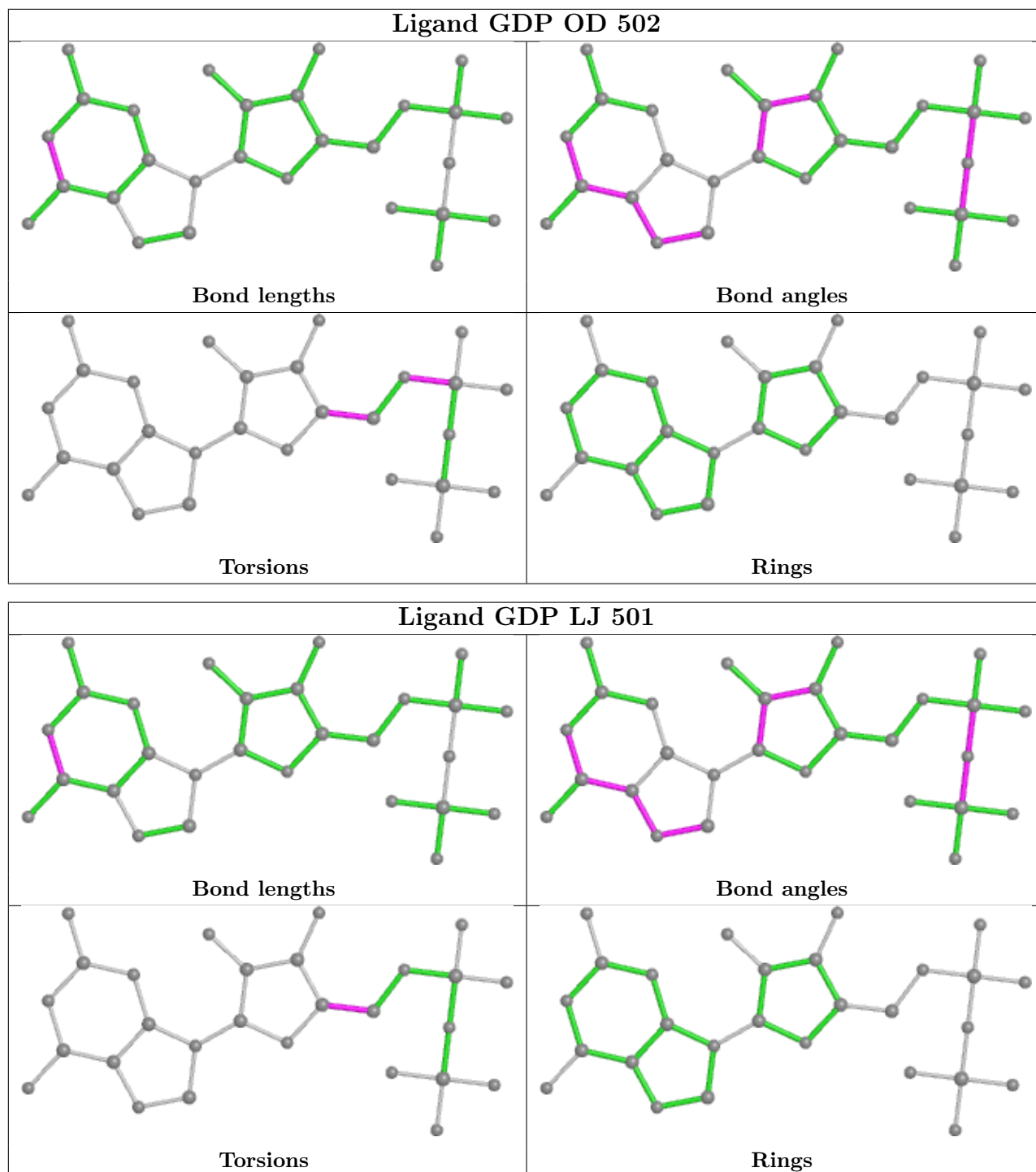


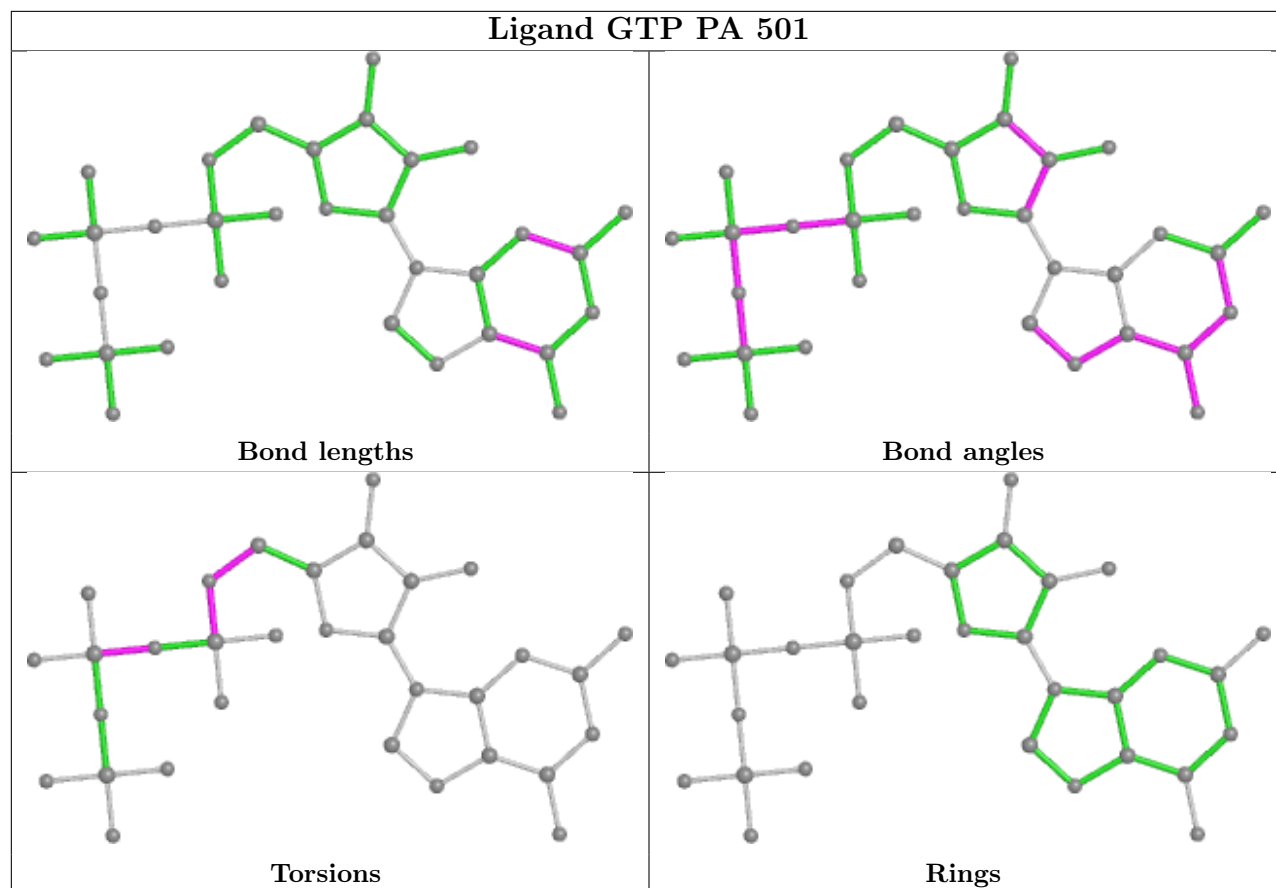












## 5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [\(i\)](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
15	1V	14
15	2V	13
15	3V	11
37	5D	6
35	7R	5
14	1U	5
14	0U	5
35	5R	5
35	4R	4
45	BH	4
44	EM	4

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
44	SM	4
26	1R	4
44	NM	4
44	ME	3
45	DJ	3
45	TN	3
45	QJ	3
45	KN	3
45	PD	3
45	UB	3
13	1T	3
44	DG	3
45	AN	3
44	SC	3
38	5G	3
45	IL	2
44	GK	2
44	MG	2
45	VN	2
45	VF	2
45	SB	2
45	GF	2
45	CL	2
45	NN	2
38	5H	2
44	TG	2
4	1C	2
44	RM	2
44	HI	2
44	VC	2
45	TH	2
45	DF	2
44	WA	2
30	2G	2
44	KK	2
44	SE	2
44	HA	2
23	1M	2
44	TM	2
40	6F	2
45	FH	2
45	AJ	2

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
13	0T	2
44	AA	2
4	0C	2
26	2R	2
45	DB	2
26	3R	2
45	MF	2
44	LE	2
44	EK	2
45	HB	2
44	CK	2
44	AC	2
42	8L	1
44	FG	1
45	CH	1
9	1H	1
45	MB	1
44	PI	1
45	VL	1
6	2E	1
44	EE	1
44	RG	1
45	BJ	1
45	VD	1
45	GH	1
45	JF	1
45	WH	1
45	GN	1
45	JL	1
44	UC	1
38	5F	1
44	AM	1
45	UD	1
44	WC	1
44	OA	1
45	WJ	1
44	WK	1
44	QM	1
44	BG	1
44	GC	1
44	GM	1
13	2T	1

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Mol	Chain	Number of breaks
45	JJ	1
45	QF	1
12	2S	1
45	DL	1
44	WG	1
24	3O	1
44	MI	1
44	SG	1
18	1F	1
44	BK	1
44	UK	1
45	ML	1
44	CG	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	8L	213:UNK	C	263:UNK	N	38.22
1	3V	1:MET	C	2:GLU	N	15.78
1	ME	433:GLU	C	434:GLU	N	14.54
1	IL	87:PRO	C	88:ASP	N	14.40
1	DJ	279:GLN	C	280:GLN	N	12.77
1	7R	17:PHE	C	18:PRO	N	12.54
1	GK	256:GLN	C	257:THR	N	12.05
1	TN	54:ALA	C	55:THR	N	11.73
1	TN	55:THR	C	56:GLY	N	11.68
1	GK	257:THR	C	258:ASN	N	11.21
1	MG	211:ASP	C	212:ILE	N	11.21
1	1U	84:ILE	C	85:ILE	N	11.10
1	MG	210:TYR	C	211:ASP	N	11.06
1	1V	258:LEU	C	259:ASN	N	11.05
1	ME	432:TYR	C	433:GLU	N	11.04
1	VN	117:LEU	C	118:ASP	N	10.94
1	VF	342:VAL	C	343:GLU	N	10.82
1	QJ	73:MET	C	74:ASP	N	10.72
1	SB	376:GLU	C	377:MET	N	10.63
1	GF	342:VAL	C	343:GLU	N	10.32
1	4R	17:PHE	C	18:PRO	N	10.08
1	VN	118:ASP	C	119:VAL	N	10.02
1	CL	339:SER	C	340:TYR	N	9.94
1	7R	16:CYS	C	17:PHE	N	9.90
1	VF	341:PHE	C	342:VAL	N	9.85
1	SB	377:MET	C	378:PHE	N	9.71

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	3V	256:GLU	C	257:LYS	N	9.60
1	FG	286:LEU	C	287:SER	N	9.55
1	KN	341:PHE	C	342:VAL	N	9.43
1	BH	357:PRO	C	358:PRO	N	9.35
1	PD	4:ILE	C	5:VAL	N	9.34
1	ME	393:HIS	C	394:LYS	N	9.25
1	IL	88:ASP	C	89:ASN	N	9.15
1	NN	339:SER	C	340:TYR	N	9.08
1	GF	341:PHE	C	342:VAL	N	8.93
1	UB	219:THR	C	220:PRO	N	8.84
1	5H	36:PRO	C	37:PRO	N	8.79
1	TG	339:ARG	C	340:THR	N	8.64
1	5D	57:PRO	C	58:TYR	N	8.63
1	1T	151:GLY	C	152:PRO	N	8.46
1	DG	285:GLN	C	286:LEU	N	8.44
1	PD	5:VAL	C	6:HIS	N	8.40
1	2V	1:MET	C	2:GLU	N	8.36
1	5D	87:ARG	C	88:PRO	N	8.32
1	DJ	280:GLN	C	281:TYR	N	8.31
1	1C	81:TYR	C	82:THR	N	8.28
1	RM	120:ASP	C	121:ARG	N	8.22
1	0U	530:GLY	C	531:SER	N	8.12
1	HI	339:ARG	C	340:THR	N	8.06
1	3V	255:ILE	C	256:GLU	N	7.98
1	VC	120:ASP	C	121:ARG	N	7.98
1	5R	17:PHE	C	18:PRO	N	7.94
1	AN	357:PRO	C	358:PRO	N	7.93
1	TH	2:ARG	C	3:GLU	N	7.80
1	KN	340:TYR	C	341:PHE	N	7.39
1	1U	85:ILE	C	86:ILE	N	7.36
1	DF	279:GLN	C	280:GLN	N	7.34
1	2V	204:GLU	C	205:VAL	N	7.28
1	1V	5:SER	C	6:ILE	N	7.24
1	TG	340:THR	C	341:ILE	N	7.16
1	WA	153:LEU	C	154:LEU	N	7.16
1	BH	358:PRO	C	359:LYS	N	7.15
1	2G	92:LEU	C	93:ALA	N	7.13
1	KK	437:ILE	C	438:GLU	N	7.12
1	SE	98:ASP	C	99:ALA	N	7.11
1	TN	56:GLY	C	57:GLY	N	6.98
1	5R	222:PRO	C	223:PRO	N	6.96
1	NN	340:TYR	C	341:PHE	N	6.90

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	EM	221:ARG	C	222:PRO	N	6.87
1	DG	286:LEU	C	287:SER	N	6.76
1	VC	119:LEU	C	120:ASP	N	6.72
1	UB	283:ALA	C	284:LEU	N	6.68
1	HA	339:ARG	C	340:THR	N	6.64
1	TH	1:MET	C	2:ARG	N	6.56
1	CH	356:ILE	C	357:PRO	N	6.51
1	4R	16:CYS	C	17:PHE	N	6.41
1	2V	29:ASN	C	30:ASP	N	6.40
1	1V	4:GLU	C	5:SER	N	6.37
1	1M	321:ALA	C	322:GLY	N	6.36
1	TM	99:ALA	C	100:ALA	N	6.34
1	WA	152:LEU	C	153:LEU	N	6.32
1	1H	336:GLN	C	337:ASP	N	6.29
1	6F	135:ASP	C	136:ARG	N	6.28
1	UB	284:LEU	C	285:THR	N	6.27
1	HI	340:THR	C	341:ILE	N	6.25
1	2V	26:GLN	C	27:TYR	N	6.19
1	MB	41:ASP	C	42:LEU	N	6.14
1	5D	40:VAL	C	41:SER	N	6.11
1	PI	256:GLN	C	257:THR	N	6.07
1	1V	1:MET	C	2:GLU	N	6.05
1	1V	257:LYS	C	258:LEU	N	6.05
1	SC	219:ILE	C	220:GLU	N	6.03
1	DF	278:SER	C	279:GLN	N	6.00
1	3V	3:GLU	C	4:GLU	N	5.94
1	5H	35:LEU	C	36:PRO	N	5.94
1	FH	33:THR	C	34:GLY	N	5.88
1	5G	95:ASP	C	96:TYR	N	5.87
1	2V	23:TYR	C	24:ARG	N	5.86
1	AJ	359:LYS	C	360:GLY	N	5.85
1	2V	24:ARG	C	25:SER	N	5.84
1	VL	276:ARG	C	277:GLY	N	5.84
1	6F	134:PHE	C	135:ASP	N	5.82
1	0T	151:GLY	C	152:PRO	N	5.70
1	2E	170:ALA	C	171:VAL	N	5.66
1	0U	390:LEU	C	391:PRO	N	5.65
1	AA	270:SER	C	271:SER	N	5.64
1	EE	285:GLN	C	286:LEU	N	5.64
1	RG	285:GLN	C	286:LEU	N	5.64
1	SC	98:ASP	C	99:ALA	N	5.63
1	2V	2:GLU	C	3:GLU	N	5.59

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BJ	88:ASP	C	89:ASN	N	5.57
1	3V	4:GLU	C	5:SER	N	5.56
1	QJ	74:ASP	C	75:SER	N	5.55
1	VD	50:TYR	C	51:TYR	N	5.53
1	1M	322:GLY	C	323:PRO	N	5.52
1	GH	321:MET	C	322:SER	N	5.48
1	0C	82:THR	C	83:SER	N	5.46
1	AN	356:ILE	C	357:PRO	N	5.46
1	SM	53:PHE	C	54:SER	N	5.45
1	EM	220:GLU	C	221:ARG	N	5.42
1	RM	119:LEU	C	120:ASP	N	5.35
1	1R	399:ILE	C	400:PRO	N	5.30
1	2R	402:PRO	C	403:PRO	N	5.30
1	JF	88:ASP	C	89:ASN	N	5.30
1	TM	100:ALA	C	101:ASN	N	5.27
1	1V	164:VAL	C	165:PRO	N	5.25
1	2V	28:PRO	C	29:ASN	N	5.25
1	1V	255:ILE	C	256:GLU	N	5.24
1	3V	2:GLU	C	3:GLU	N	5.24
1	WH	386:THR	C	387:ALA	N	5.17
1	2V	164:VAL	C	165:PRO	N	5.15
1	5R	16:CYS	C	17:PHE	N	5.15
1	DB	37:HIS	C	38:GLY	N	5.15
1	0C	81:TYR	C	82:THR	N	5.14
1	1C	82:THR	C	83:SER	N	5.14
1	GN	386:THR	C	387:ALA	N	5.05
1	NM	284:GLU	C	285:GLN	N	5.05
1	1U	376:SER	C	377:ILE	N	5.02
1	5R	221:PRO	C	222:PRO	N	5.00
1	JL	33:THR	C	34:GLY	N	5.00
1	5D	86:VAL	C	87:ARG	N	4.96
1	3R	402:PRO	C	403:PRO	N	4.89
1	7R	222:PRO	C	223:PRO	N	4.88
1	AN	358:PRO	C	359:LYS	N	4.84
1	UC	277:SER	C	278:ALA	N	4.82
1	5G	36:PRO	C	37:PRO	N	4.80
1	CL	340:TYR	C	341:PHE	N	4.77
1	DB	279:GLN	C	280:GLN	N	4.77
1	5F	36:PRO	C	37:PRO	N	4.68
1	MF	322:SER	C	323:THR	N	4.68
1	2V	3:GLU	C	4:GLU	N	4.67
1	4R	222:PRO	C	223:PRO	N	4.67

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DJ	278:SER	C	279:GLN	N	4.67
1	AM	425:LEU	C	426:ALA	N	4.65
1	UD	279:GLN	C	280:GLN	N	4.63
1	EM	256:GLN	C	257:THR	N	4.59
1	2G	93:ALA	C	94:ILE	N	4.56
1	NM	386:GLU	C	387:VAL	N	4.56
1	7R	18:PRO	C	19:ASP	N	4.48
1	0T	150:ALA	C	151:GLY	N	4.47
1	AJ	360:GLY	C	361:LEU	N	4.46
1	3V	208:LEU	C	209:ARG	N	4.44
1	3R	401:LYS	C	402:PRO	N	4.38
1	NM	387:VAL	C	388:PHE	N	4.38
1	WC	40:LYS	C	41:THR	N	4.38
1	1T	150:ALA	C	151:GLY	N	4.37
1	LE	57:GLY	C	58:ALA	N	4.36
1	EK	31:GLN	C	32:PRO	N	4.34
1	MF	321:MET	C	322:SER	N	4.33
1	OA	379:SER	C	380:ASN	N	4.33
1	WJ	104:GLY	C	105:HIS	N	4.32
1	1R	400:PRO	C	401:LYS	N	4.29
1	QJ	72:THR	C	73:MET	N	4.29
1	EM	257:THR	C	258:ASN	N	4.24
1	LE	45:GLY	C	46:ASP	N	4.22
1	WK	40:LYS	C	41:THR	N	4.22
1	2V	205:VAL	C	206:ARG	N	4.15
1	0U	353:GLN	C	354:GLU	N	4.08
1	SM	76:ASP	C	77:GLU	N	4.07
1	3V	24:ARG	C	25:SER	N	3.95
1	0U	375:LYS	C	376:SER	N	3.94
1	EK	32:PRO	C	33:ASP	N	3.92
1	QM	88:HIS	C	89:PRO	N	3.87
1	1V	2:GLU	C	3:GLU	N	3.84
1	3V	29:ASN	C	30:ASP	N	3.84
1	BG	88:HIS	C	89:PRO	N	3.81
1	SM	52:PHE	C	53:PHE	N	3.79
1	GC	359:PRO	C	360:PRO	N	3.76
1	1U	390:LEU	C	391:PRO	N	3.75
1	HB	33:THR	C	34:GLY	N	3.74
1	CK	359:PRO	C	360:PRO	N	3.72
1	5R	223:PRO	C	224:ASN	N	3.71
1	AC	132:LEU	C	133:GLN	N	3.70
1	NM	283:HIS	C	284:GLU	N	3.65

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1R	401:LYS	C	402:PRO	N	3.62
1	HA	340:THR	C	341:ILE	N	3.61
1	GM	88:HIS	C	89:PRO	N	3.60
1	PD	177:ASP	C	178:THR	N	3.50
1	4R	18:PRO	C	19:ASP	N	3.49
1	DG	427:ALA	C	428:LEU	N	3.48
1	2T	151:GLY	C	152:PRO	N	3.45
1	1V	186:HIS	C	187:LEU	N	3.44
1	JJ	219:THR	C	220:PRO	N	3.37
1	5D	41:SER	C	42:SER	N	3.36
1	FH	361:LEU	C	362:LYS	N	3.36
1	5G	30:PRO	C	31:SER	N	3.33
1	1V	3:GLU	C	4:GLU	N	3.32
1	AC	133:GLN	C	134:GLY	N	3.32
1	CK	207:GLU	C	208:ALA	N	3.31
1	SE	99:ALA	C	100:ALA	N	3.29
1	1T	152:PRO	C	153:ILE	N	3.26
1	3V	23:TYR	C	24:ARG	N	3.26
1	2V	5:SER	C	6:ILE	N	3.24
1	3V	186:HIS	C	187:LEU	N	3.24
1	QF	321:MET	C	322:SER	N	3.24
1	2S	183:ASP	C	184:PRO	N	3.22
1	BH	51:TYR	C	52:ASN	N	3.22
1	1V	24:ARG	C	25:SER	N	3.19
1	HB	357:PRO	C	358:PRO	N	3.19
1	5D	59:TYR	C	60:GLY	N	3.17
1	DL	98:GLY	C	99:ASN	N	3.15
1	2R	401:LYS	C	402:PRO	N	3.14
1	BH	52:ASN	C	53:GLU	N	3.14
1	1V	28:PRO	C	29:ASN	N	3.13
1	WG	40:LYS	C	41:THR	N	3.12
1	SC	220:GLU	C	221:ARG	N	3.11
1	SM	75:ILE	C	76:ASP	N	3.10
1	1U	524:ALA	C	525:ILE	N	3.09
1	3O	378:TYR	C	379:GLU	N	3.09
1	KN	182:PRO	C	183:TYR	N	3.07
1	MI	430:LYS	C	431:ASP	N	3.07
1	SG	219:ILE	C	220:GLU	N	3.07
1	1V	29:ASN	C	30:ASP	N	3.06
1	KK	346:TRP	C	347:CYS	N	3.04
1	1F	122:GLU	C	123:TYR	N	3.03
1	1R	403:PRO	C	404:ARG	N	3.03

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2V	186:HIS	C	187:LEU	N	3.03
1	0U	524:ALA	C	525:ILE	N	3.01
1	AA	271:SER	C	272:TYR	N	3.01
1	1V	23:TYR	C	24:ARG	N	3.00
1	7R	221:PRO	C	222:PRO	N	3.00
1	BK	88:HIS	C	89:PRO	N	2.98
1	UK	260:VAL	C	261:PRO	N	2.98
1	ML	86:ARG	C	87:PRO	N	2.97
1	CG	88:HIS	C	89:PRO	N	2.82

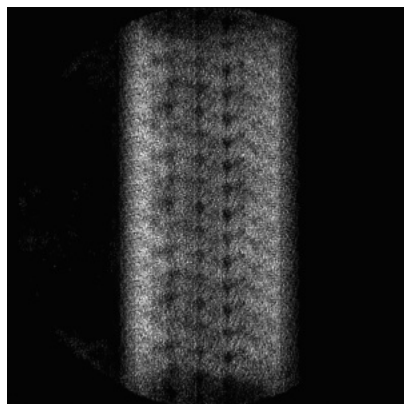
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-40436. These allow visual inspection of the internal detail of the map and identification of artifacts.

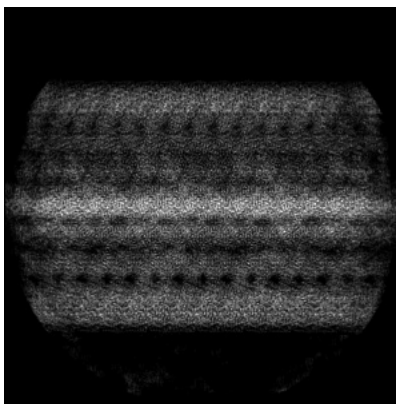
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

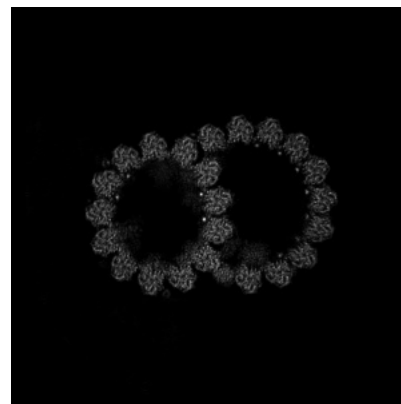
#### 6.1.1 Primary map



X

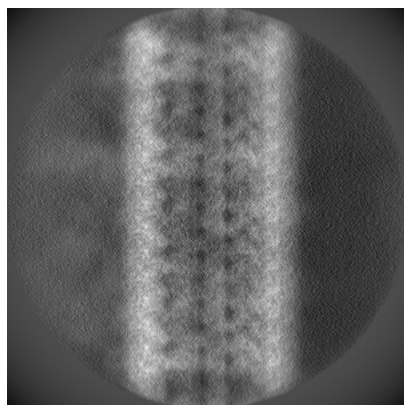


Y

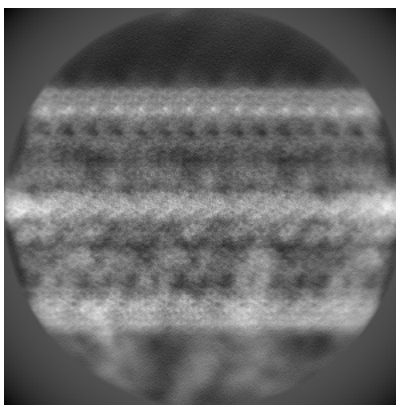


Z

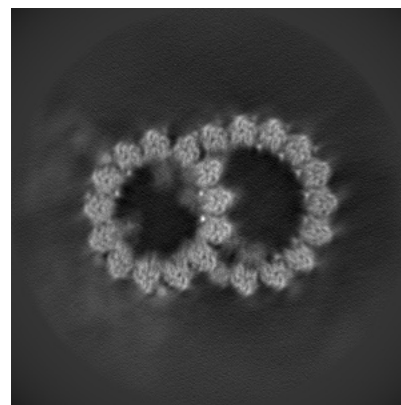
#### 6.1.2 Raw map



X



Y

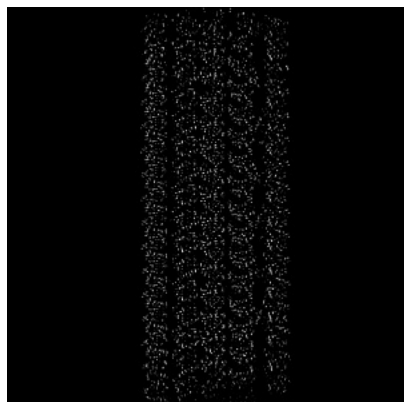


Z

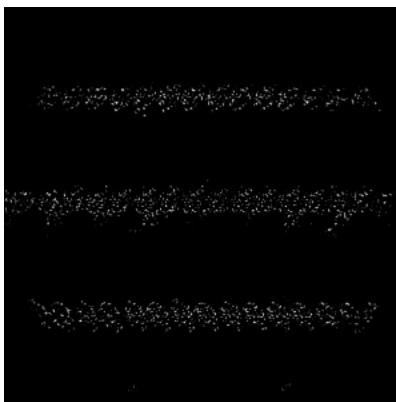
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

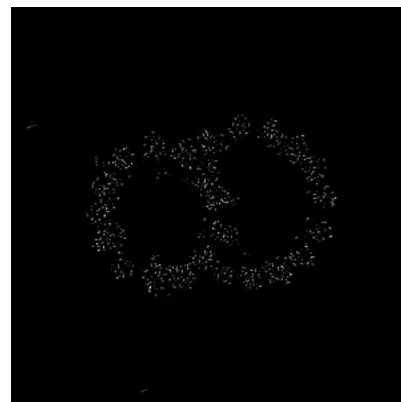
### 6.2.1 Primary map



X Index: 256

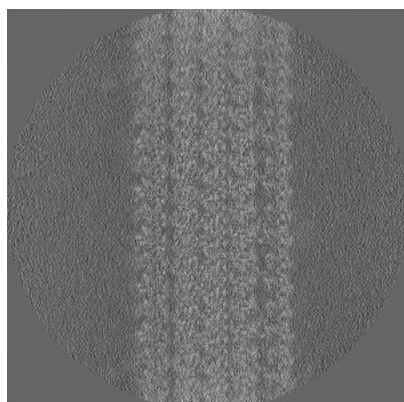


Y Index: 256

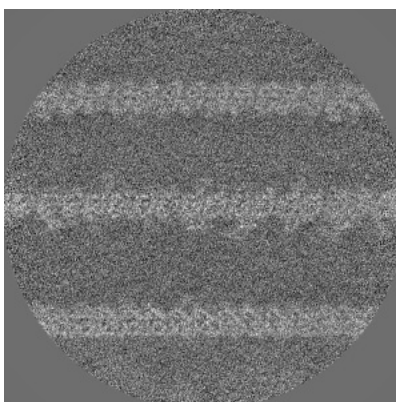


Z Index: 256

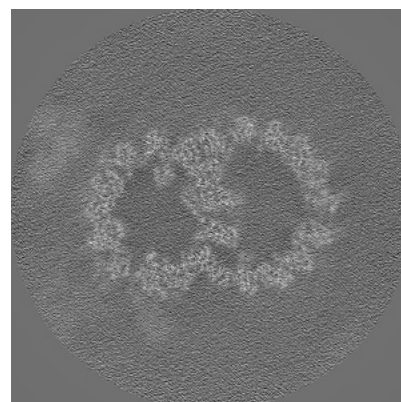
### 6.2.2 Raw map



X Index: 256



Y Index: 256



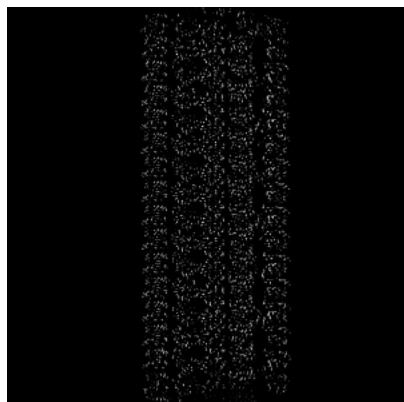
Z Index: 256

The images above show central slices of the map in three orthogonal directions.

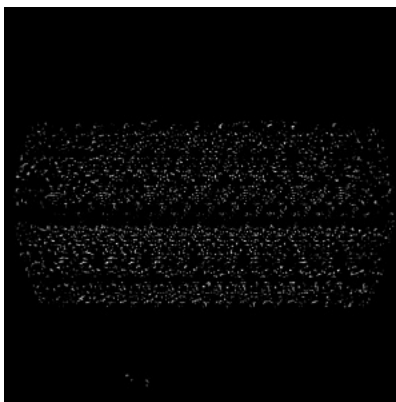


## 6.3 Largest variance slices [i](#)

### 6.3.1 Primary map



X Index: 255

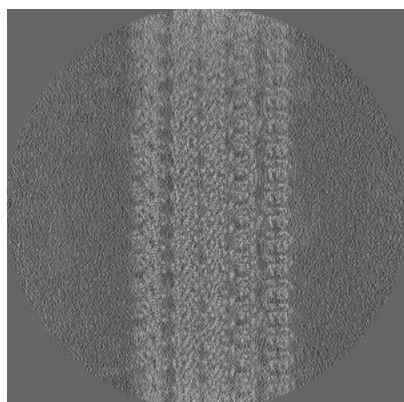


Y Index: 173

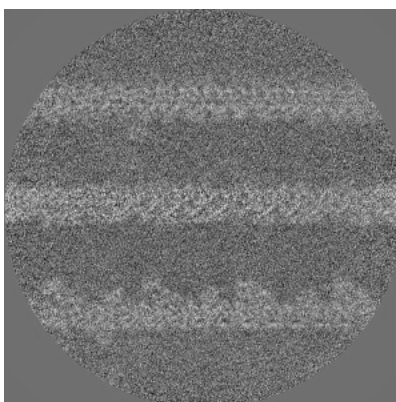


Z Index: 200

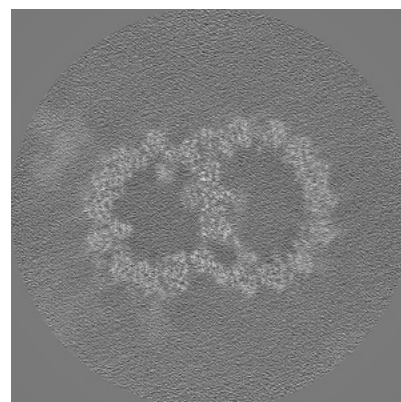
### 6.3.2 Raw map



X Index: 258



Y Index: 225

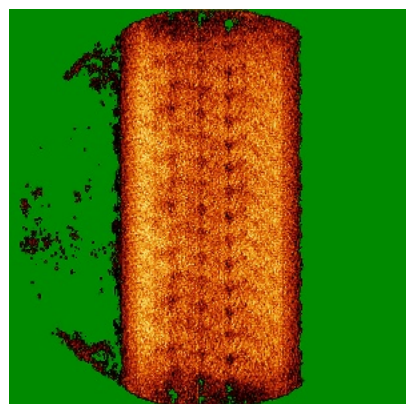


Z Index: 262

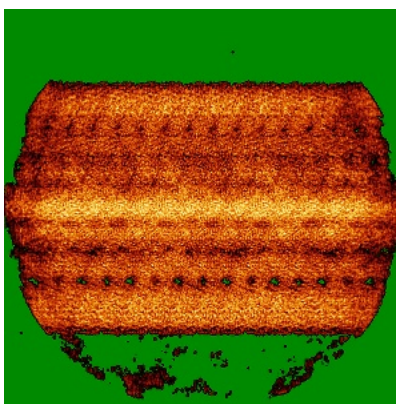
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

### 6.4.1 Primary map



X

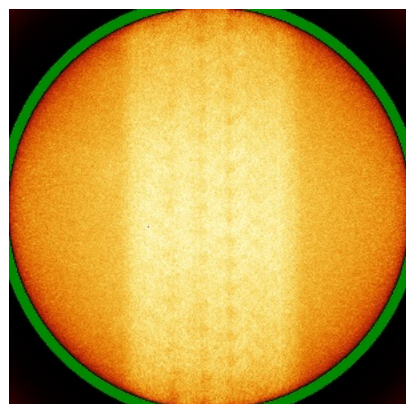


Y

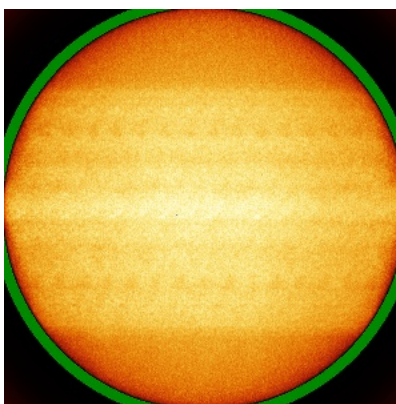


Z

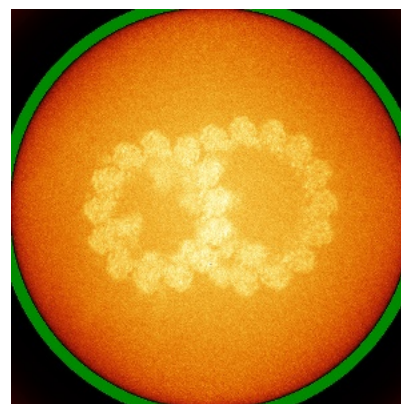
### 6.4.2 Raw map



X



Y

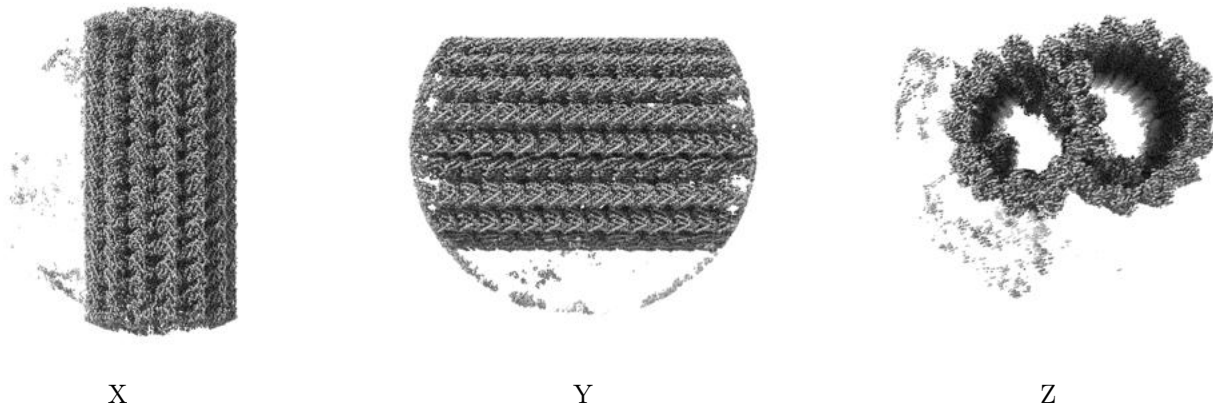


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

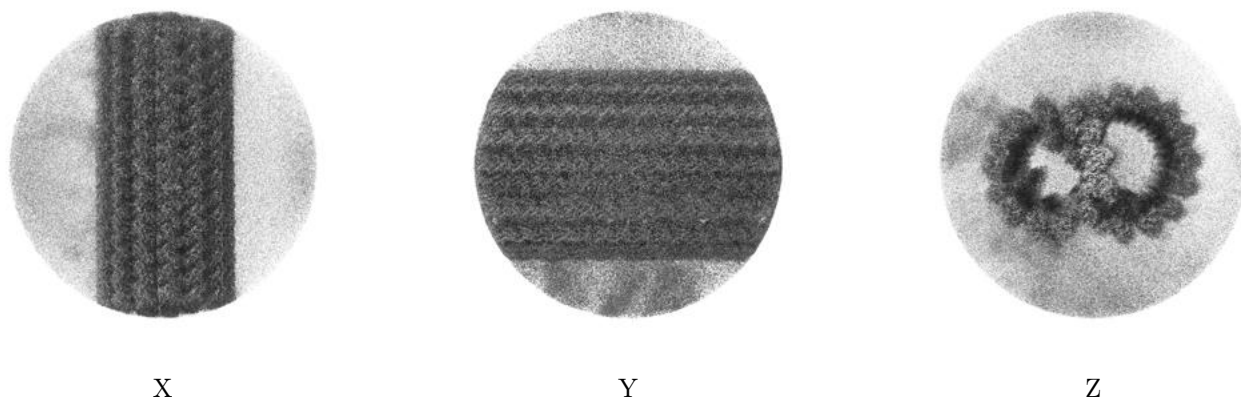
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

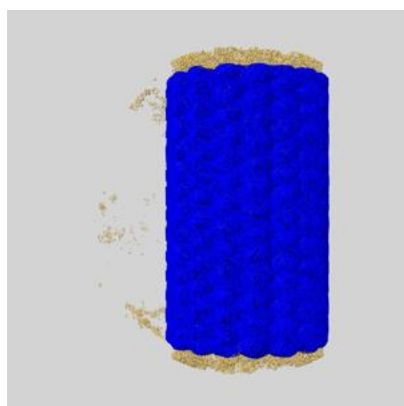
## 6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

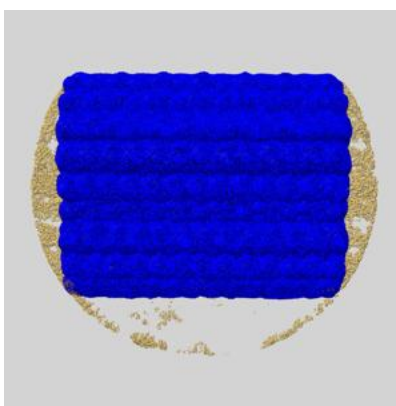
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

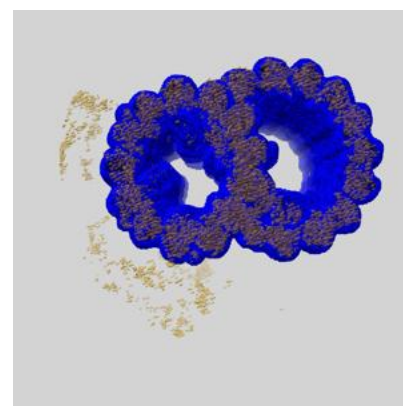
### 6.6.1 emd\_40436\_msk\_1.map [i](#)



X



Y

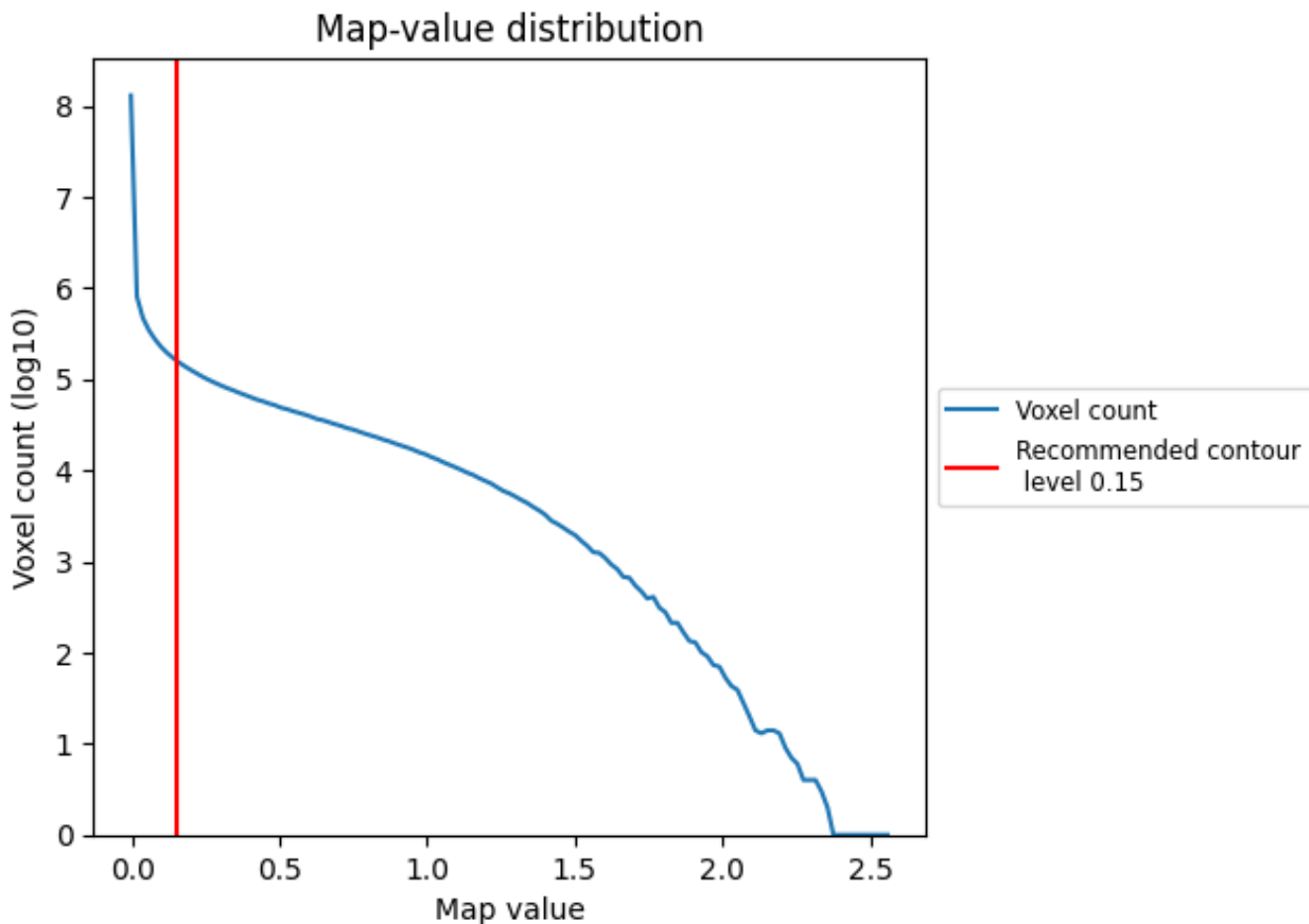


Z

## 7 Map analysis [i](#)

This section contains the results of statistical analysis of the map.

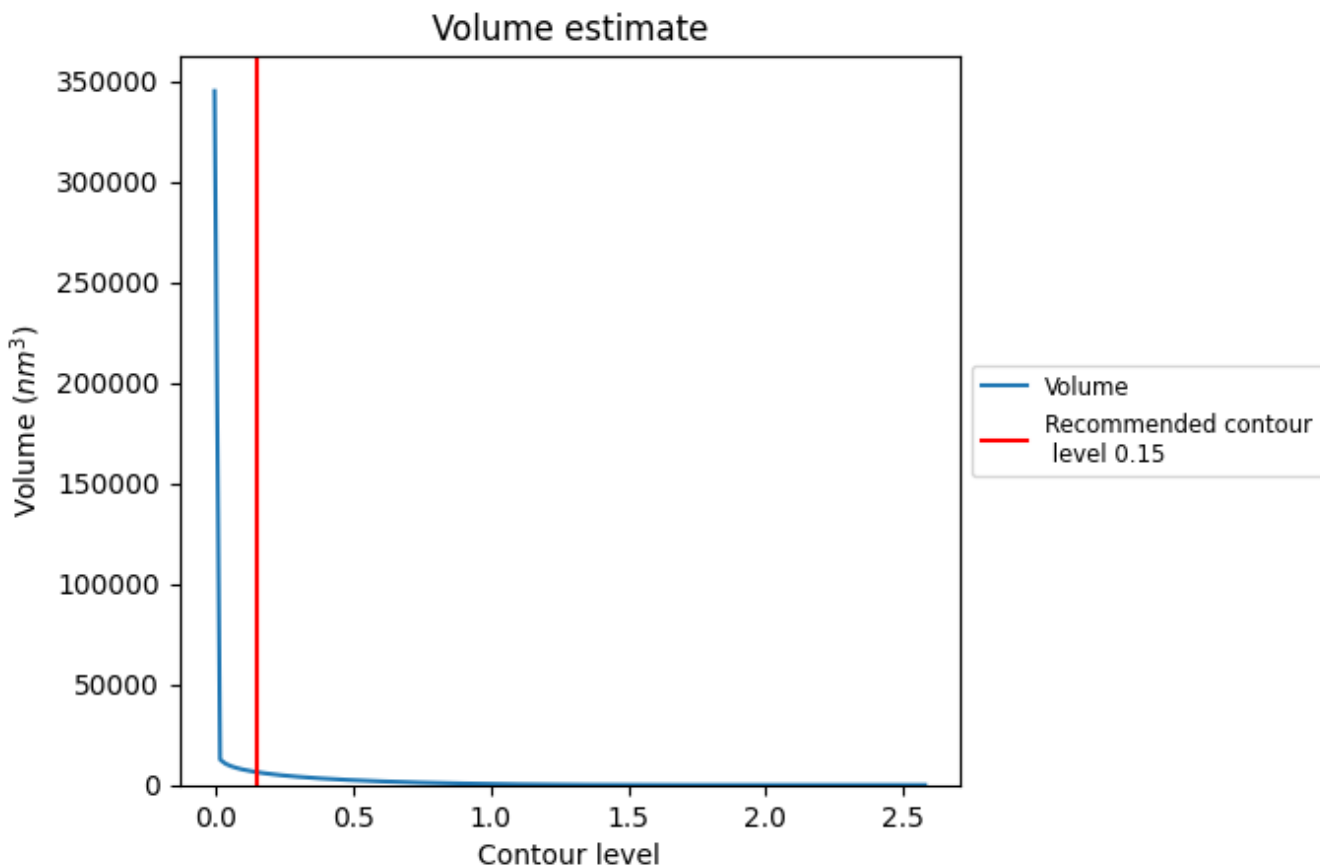
### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.



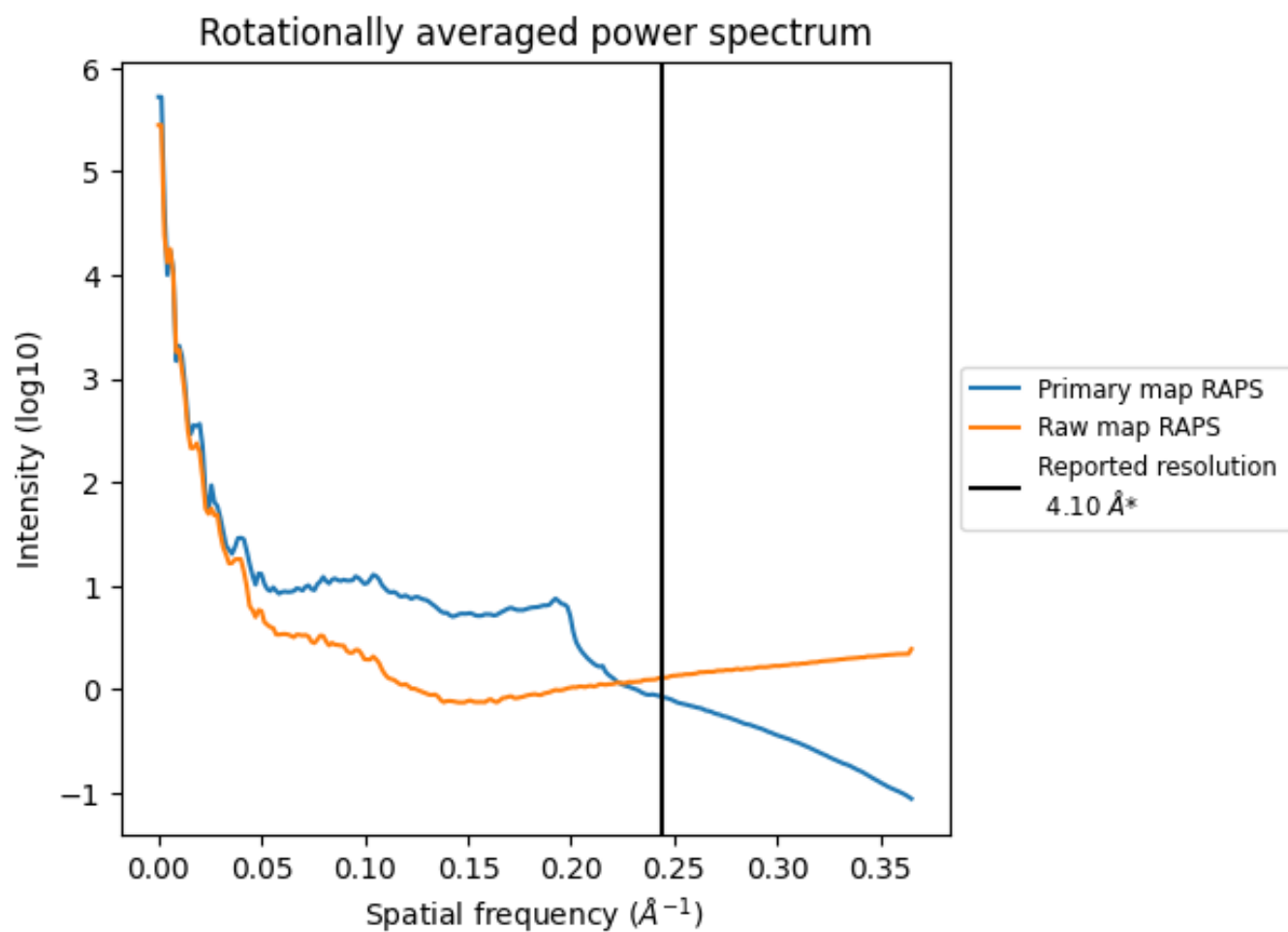
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 6396 nm<sup>3</sup>; this corresponds to an approximate mass of 5778 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum [i](#)



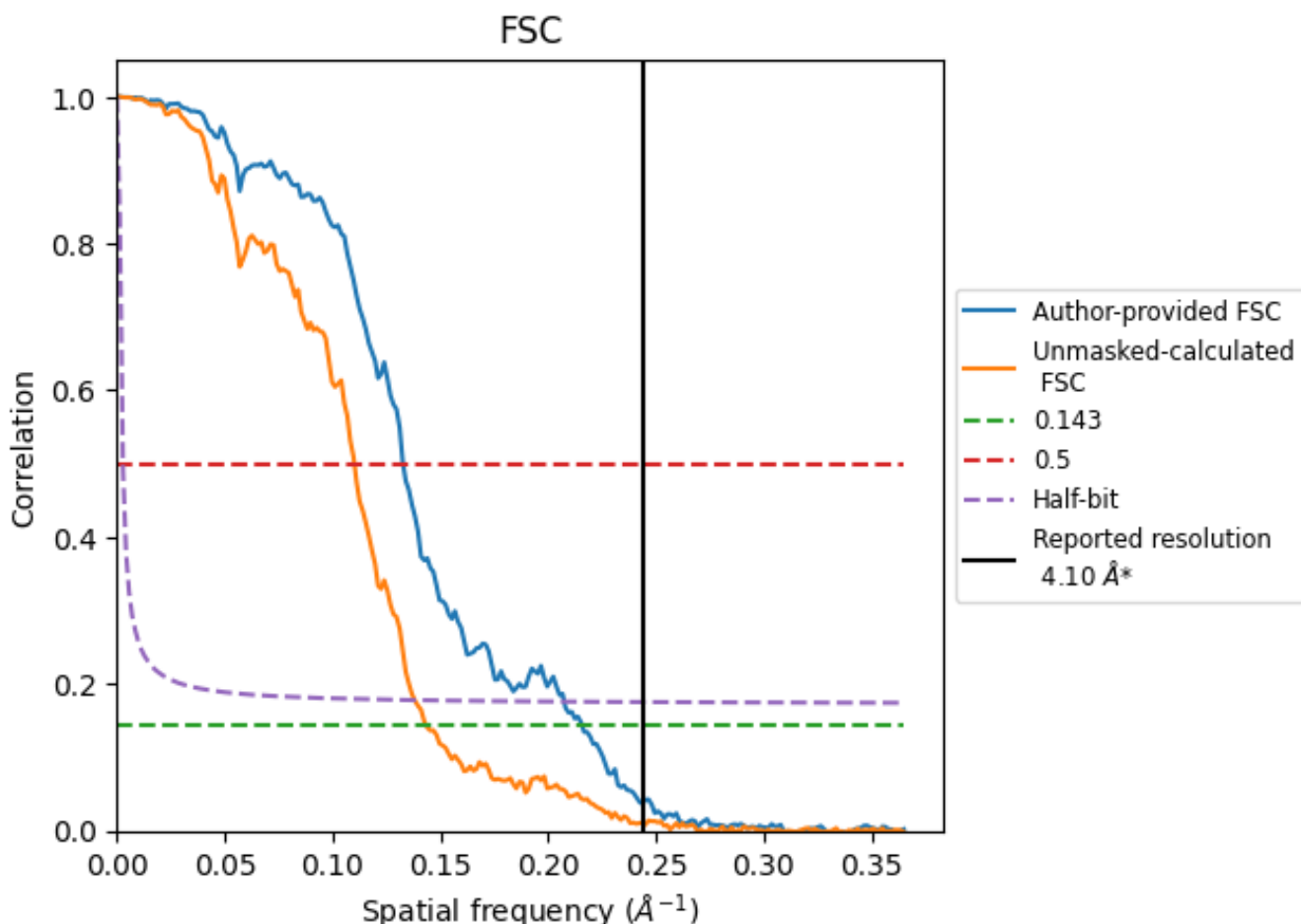
\*Reported resolution corresponds to spatial frequency of 0.244 Å<sup>-1</sup>



## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.244 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.10	-	-
Author-provided FSC curve	4.64	7.54	4.82
Unmasked-calculated*	6.97	9.08	7.24

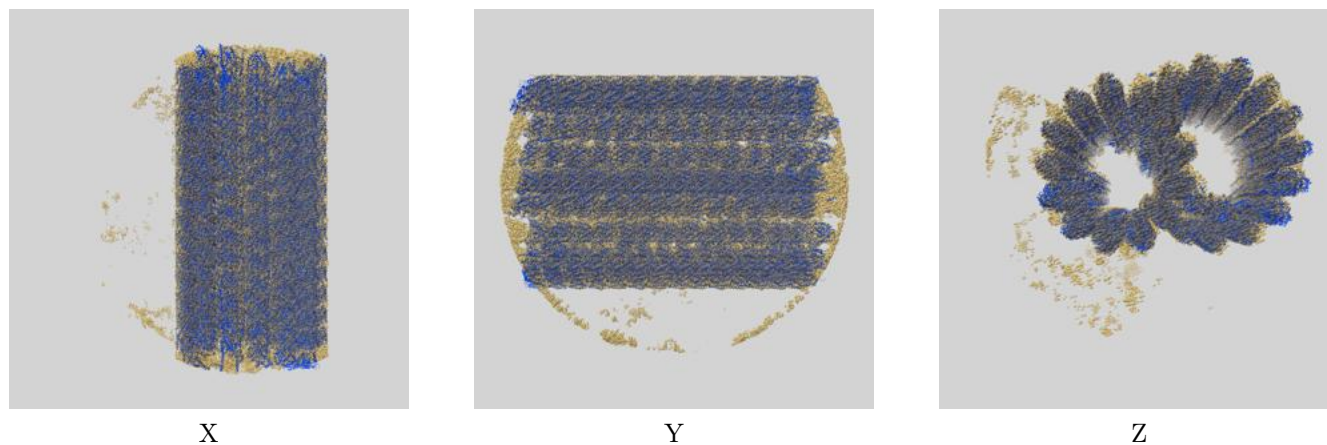
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 4.64 differs from the reported value 4.1 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.97 differs from the reported value 4.1 by more than 10 %

## 9 Map-model fit [i](#)

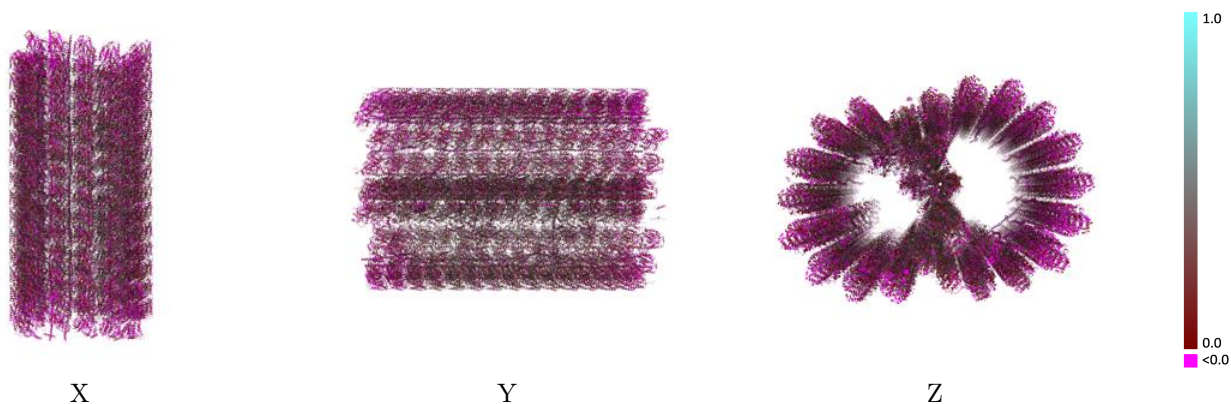
This section contains information regarding the fit between EMDB map EMD-40436 and PDB model 8SF7. Per-residue inclusion information can be found in section 3 on page 70.

### 9.1 Map-model overlay [i](#)



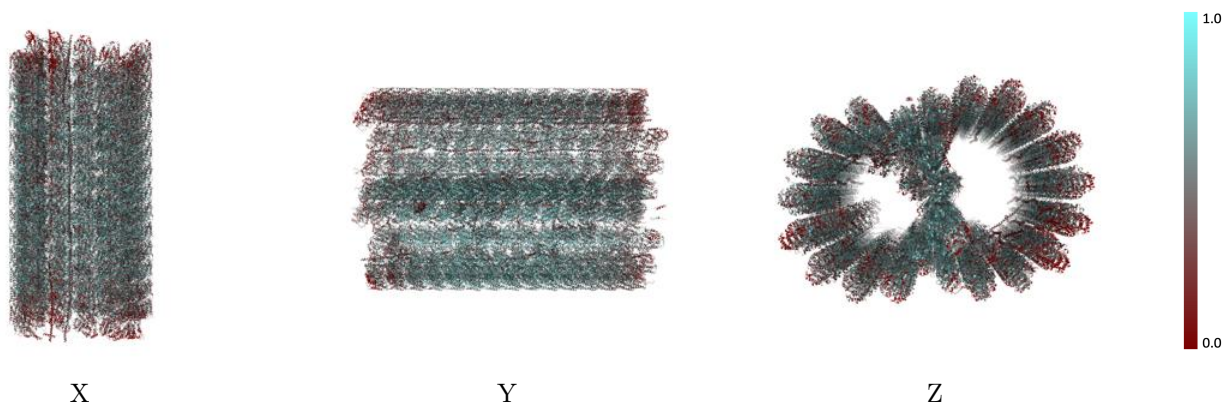
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



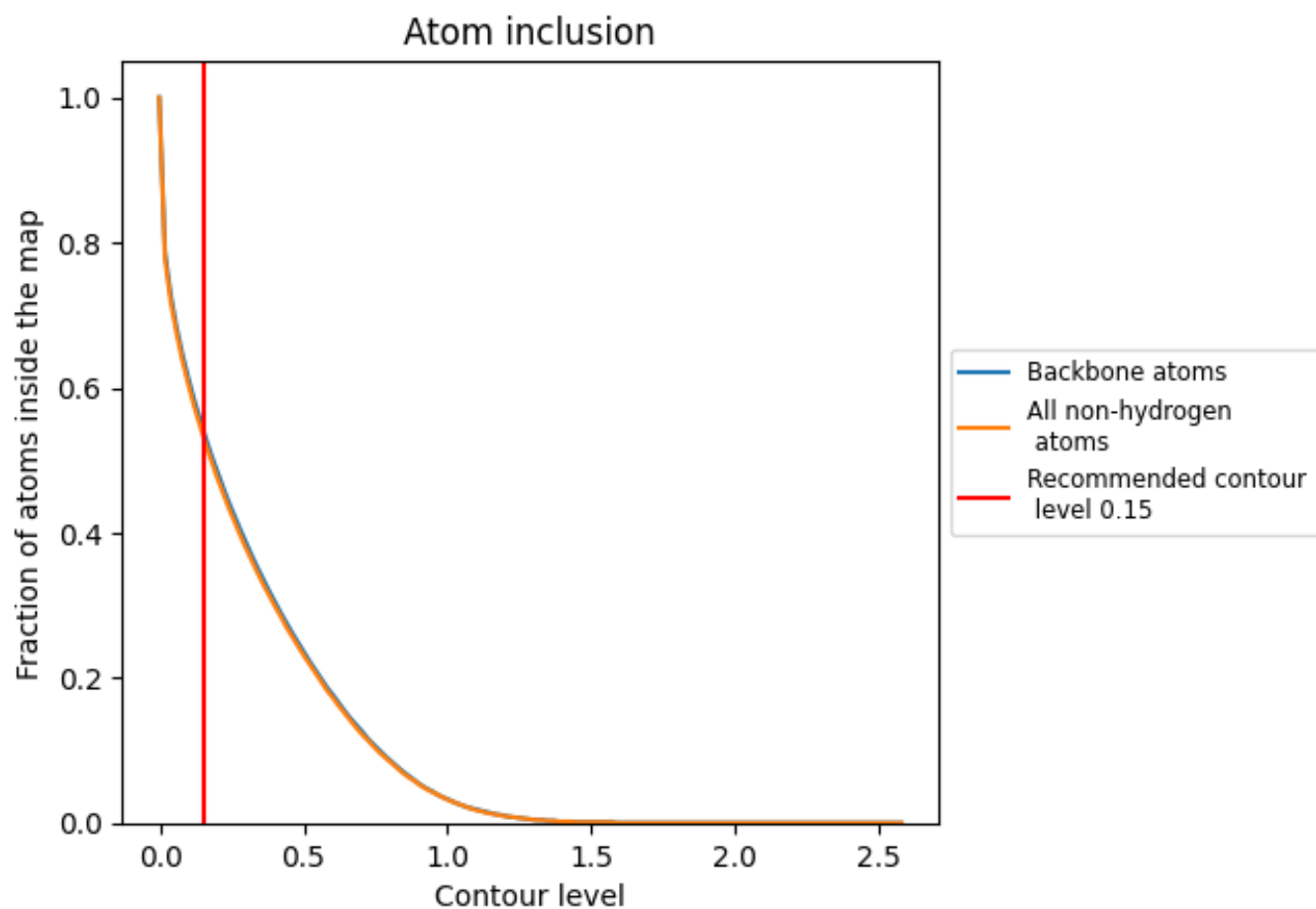
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).







































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 54% of all backbone atoms, 53% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5330	 0.2060
0A	 0.4040	 0.1360
0B	 0.4670	 0.1850
0C	 0.5620	 0.2160
0D	 0.3880	 0.0990
0E	 0.2890	 0.0540
0F	 0.4690	 0.1740
0G	 0.3760	 0.1210
0H	 0.3630	 0.0820
0N	 0.4800	 0.1610
0Q	 0.5790	 0.2580
0S	 0.3570	 0.1000
0T	 0.2560	 0.0500
0U	 0.3920	 0.1050
0V	 0.2830	 0.0920
0X	 0.5220	 0.1570
1A	 0.5330	 0.2140
1B	 0.4630	 0.1570
1C	 0.4970	 0.1550
1D	 0.5210	 0.1870
1E	 0.3880	 0.1330
1F	 0.4910	 0.2020
1G	 0.3840	 0.1280
1H	 0.3380	 0.0600
1I	 0.4430	 0.1830
1J	 0.4270	 0.1400
1K	 0.3820	 0.0860
1L	 0.4960	 0.1960
1M	 0.4990	 0.1940
1N	 0.5240	 0.2060
1O	 0.1270	 -0.0060
1P	 0.2600	 0.0410
1Q	 0.6680	 0.3120
1R	 0.5800	 0.2470
1S	 0.5740	 0.2280



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




























































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Chain	Atom inclusion	Q-score
1T	0.5490	0.2140
1U	0.5680	0.2310
1V	0.3950	0.1400
1W	0.5250	0.1760
1X	0.5950	0.2260
2A	0.5970	0.2370
2B	0.0540	-0.0040
2C	0.4140	0.1080
2D	0.4710	0.1660
2E	0.4540	0.1430
2F	0.4180	0.1480
2G	0.4700	0.1630
2H	0.4430	0.1830
2I	0.4490	0.1750
2K	0.3830	0.0780
2L	0.3940	0.1240
2M	0.5530	0.2100
2N	0.4100	0.1350
2O	0.2770	0.0200
2P	0.3180	0.0700
2Q	0.6590	0.3080
2R	0.5980	0.2630
2S	0.6060	0.2490
2T	0.5600	0.2150
2U	0.5740	0.2320
2V	0.3920	0.1370
2W	0.3830	0.0920
2X	0.6020	0.2240
3A	0.4980	0.1750
3B	0.2170	0.0330
3C	0.4980	0.1590
3D	0.2900	0.0970
3E	0.2580	0.0450
3H	0.4640	0.2140
3I	0.4680	0.2030
3L	0.3240	0.0810
3O	0.2550	0.0260
3Q	0.6510	0.3090
3R	0.5420	0.2200
3S	0.5410	0.2090
3T	0.5300	0.1920
3U	0.4310	0.1270

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Chain	Atom inclusion	Q-score
3V	 0.3650	 0.1140
3X	 0.5330	 0.1680
4C	 0.4030	 0.1090
4F	 0.2910	 0.0920
4H	 0.4190	 0.1910
4Q	 0.6670	 0.3180
4R	 0.6080	 0.2570
4S	 0.5930	 0.2610
4X	 0.5620	 0.2200
5A	 0.2820	 0.0960
5B	 0.3830	 0.1500
5C	 0.3810	 0.1500
5D	 0.1660	 -0.0560
5E	 0.1630	 0.0310
5F	 0.3030	 0.1110
5G	 0.3500	 0.1190
5H	 0.2570	 0.0890
5I	 0.2530	 0.0730
5J	 0.3180	 0.1090
5K	 0.2300	 0.0160
5Q	 0.6790	 0.3320
5R	 0.5950	 0.2450
5S	 0.6140	 0.2800
6F	 0.3770	 0.1480
6G	 0.3200	 0.0760
6H	 0.4660	 0.1320
6Q	 0.5710	 0.2630
6R	 0.3680	 0.0620
7R	 0.4340	 0.1410
8L	 0.5290	 0.1590
8N	 0.4450	 0.1210
8P	 0.4320	 0.1340
8R	 0.3940	 0.1160
AA	 0.6480	 0.2940
AB	 0.4940	 0.1750
AC	 0.7150	 0.3500
AD	 0.7060	 0.3450
AE	 0.7320	 0.3690
AF	 0.6960	 0.3410
AG	 0.7220	 0.3650
AH	 0.7140	 0.3570
AI	 0.7250	 0.3750





















































































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Chain	Atom inclusion	Q-score
AJ	 0.7020	 0.3500
AK	 0.7360	 0.3730
AL	 0.7360	 0.3700
AM	 0.6540	 0.3030
AN	 0.6890	 0.3210
BA	 0.5230	 0.1950
BB	 0.3140	 0.0080
BC	 0.6890	 0.3360
BD	 0.6440	 0.2890
BE	 0.7000	 0.3410
BF	 0.6810	 0.3360
BG	 0.7010	 0.3410
BH	 0.6810	 0.3290
BI	 0.7010	 0.3470
BJ	 0.7000	 0.3450
BK	 0.7000	 0.3430
BL	 0.7070	 0.3490
BM	 0.6380	 0.2740
BN	 0.6830	 0.3160
CA	 0.3950	 0.0940
CB	 0.5070	 0.1690
CC	 0.5650	 0.2230
CD	 0.6100	 0.2610
CE	 0.6240	 0.2780
CF	 0.6040	 0.2480
CG	 0.6060	 0.2620
CH	 0.6300	 0.2660
CI	 0.6490	 0.3020
CJ	 0.6290	 0.2740
CK	 0.6300	 0.2790
CL	 0.5880	 0.2260
CM	 0.4980	 0.1710
CN	 0.4090	 0.0960
DA	 0.3310	 0.0530
DB	 0.4620	 0.1290
DC	 0.4980	 0.1620
DD	 0.5580	 0.2070
DE	 0.5840	 0.2450
DF	 0.5880	 0.2440
DG	 0.5800	 0.2250
DH	 0.5930	 0.2420
DI	 0.6200	 0.2620





















































































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Chain	Atom inclusion	Q-score
DJ	 0.6070	 0.2390
DK	 0.6060	 0.2590
DL	 0.5370	 0.1930
DM	 0.4710	 0.1260
DN	 0.3500	 0.0640
EA	 0.2840	 0.0600
EB	 0.4650	 0.1090
EC	 0.4860	 0.1430
ED	 0.5570	 0.2020
EE	 0.5760	 0.2160
EF	 0.6030	 0.2300
EG	 0.6230	 0.2560
EH	 0.6090	 0.2380
EI	 0.6200	 0.2520
EJ	 0.5940	 0.2290
EK	 0.5970	 0.2300
EL	 0.5210	 0.1680
EM	 0.4790	 0.1420
EN	 0.3530	 0.0610
FA	 0.5100	 0.1650
FB	 0.4400	 0.1110
FC	 0.6050	 0.2400
FD	 0.5790	 0.2120
FE	 0.6370	 0.2680
FF	 0.6230	 0.2500
FG	 0.6370	 0.2650
FH	 0.6250	 0.2560
FI	 0.6520	 0.2800
FJ	 0.6450	 0.2820
FK	 0.5500	 0.1850
FL	 0.6010	 0.2330
FM	 0.2090	 0.0340
FN	 0.4240	 0.0950
GA	 0.4970	 0.1550
GB	 0.4210	 0.0980
GC	 0.6260	 0.2500
GD	 0.5950	 0.2190
GE	 0.6580	 0.2880
GF	 0.6500	 0.2750
GG	 0.6600	 0.2880
GH	 0.6520	 0.2800
GI	 0.6660	 0.2950





















































































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Chain	Atom inclusion	Q-score
GJ	 0.6640	 0.2920
GK	 0.5580	 0.2030
GL	 0.5980	 0.2390
GM	 0.3580	 0.0720
GN	 0.4070	 0.0890
HA	 0.4840	 0.1540
HB	 0.3760	 0.0830
HC	 0.6240	 0.2680
HD	 0.5690	 0.2220
HE	 0.6600	 0.3000
HF	 0.6490	 0.2950
HG	 0.6470	 0.2830
HH	 0.6440	 0.2750
HI	 0.6640	 0.3010
HJ	 0.6410	 0.2880
HK	 0.5910	 0.2310
HL	 0.6280	 0.2730
HM	 0.3940	 0.0860
HN	 0.4980	 0.1520
IA	 0.5150	 0.1830
IB	 0.3950	 0.0910
IC	 0.6350	 0.2770
ID	 0.6130	 0.2650
IE	 0.6700	 0.3110
IF	 0.6490	 0.2920
IG	 0.6500	 0.3010
IH	 0.6450	 0.2810
II	 0.6770	 0.3180
IJ	 0.6460	 0.2980
IK	 0.6500	 0.2970
IL	 0.6620	 0.3110
IM	 0.4520	 0.1320
IN	 0.5620	 0.2140
JA	 0.6370	 0.2780
JB	 0.5760	 0.2190
JC	 0.6730	 0.3060
JD	 0.6580	 0.2880
JE	 0.6990	 0.3300
JF	 0.7070	 0.3460
JG	 0.6760	 0.3120
JH	 0.6920	 0.3250
JI	 0.6920	 0.3260





















































































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Chain	Atom inclusion	Q-score
JJ	 0.6780	 0.3090
JK	 0.6510	 0.2960
JL	 0.6780	 0.3140
JM	 0.3660	 0.0890
JN	 0.5450	 0.1970
KA	 0.6360	 0.2650
KB	 0.5890	 0.2270
KC	 0.6940	 0.3410
KD	 0.6780	 0.3170
KE	 0.7120	 0.3430
KF	 0.7000	 0.3360
KG	 0.6950	 0.3270
KH	 0.7010	 0.3370
KI	 0.7050	 0.3350
KJ	 0.6950	 0.3200
KK	 0.6750	 0.3140
KL	 0.7180	 0.3450
KM	 0.5530	 0.2140
KN	 0.6260	 0.2490
LA	 0.6330	 0.2710
LB	 0.5800	 0.2180
LC	 0.6600	 0.3120
LD	 0.6630	 0.3050
LE	 0.6830	 0.3220
LF	 0.6750	 0.3060
LG	 0.6590	 0.3000
LH	 0.6820	 0.3230
LI	 0.6760	 0.3140
LJ	 0.6760	 0.3040
LK	 0.6370	 0.2480
LL	 0.6890	 0.3260
LM	 0.5970	 0.2400
LN	 0.6450	 0.2850
MA	 0.6550	 0.2930
MB	 0.5840	 0.2330
MC	 0.6770	 0.3240
MD	 0.7130	 0.3550
ME	 0.6810	 0.3250
MF	 0.6720	 0.3120
MG	 0.6750	 0.3150
MH	 0.6950	 0.3530
MI	 0.6860	 0.3350





















































































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Chain	Atom inclusion	Q-score
MJ	 0.6720	 0.2980
MK	 0.6880	 0.3260
ML	 0.7020	 0.3530
MM	 0.6150	 0.2620
MN	 0.6370	 0.2690
NA	 0.5040	 0.1820
NB	 0.4420	 0.1320
NC	 0.6010	 0.2440
ND	 0.5530	 0.2160
NE	 0.6210	 0.2700
NF	 0.6240	 0.2690
NG	 0.6130	 0.2630
NH	 0.6020	 0.2410
NI	 0.6150	 0.2620
NJ	 0.6180	 0.2590
NK	 0.5990	 0.2470
NL	 0.5910	 0.2470
NM	 0.4080	 0.1130
NN	 0.5310	 0.2000
OA	 0.4540	 0.1380
OB	 0.3730	 0.0980
OC	 0.5480	 0.2100
OD	 0.5110	 0.1750
OE	 0.5880	 0.2340
OF	 0.5730	 0.2210
OG	 0.5940	 0.2420
OH	 0.5880	 0.2300
OI	 0.5880	 0.2410
OJ	 0.5610	 0.2220
OK	 0.5280	 0.2030
OL	 0.5820	 0.2200
OM	 0.3810	 0.1030
ON	 0.4900	 0.1600
PA	 0.4020	 0.1010
PB	 0.2990	 0.0500
PC	 0.5250	 0.1810
PD	 0.4620	 0.1320
PE	 0.5700	 0.2190
PF	 0.5450	 0.2000
PG	 0.5810	 0.2270
PH	 0.5610	 0.2200
PI	 0.5710	 0.2230

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Chain	Atom inclusion	Q-score
PJ	 0.5550	 0.2070
PK	 0.5470	 0.2010
PL	 0.5370	 0.1960
PM	 0.3630	 0.0910
PN	 0.4640	 0.1350
QA	 0.2900	 0.0500
QB	 0.4390	 0.1170
QC	 0.4850	 0.1390
QD	 0.4870	 0.1590
QE	 0.5240	 0.1880
QF	 0.5470	 0.1990
QG	 0.5670	 0.2170
QH	 0.5520	 0.2000
QI	 0.5500	 0.2020
QJ	 0.5030	 0.1660
QK	 0.5280	 0.1780
QL	 0.4470	 0.1280
QM	 0.3790	 0.0880
QN	 0.2280	 0.0360
RA	 0.2520	 0.0270
RB	 0.3800	 0.0910
RC	 0.4690	 0.1350
RD	 0.5110	 0.1580
RE	 0.5260	 0.1770
RF	 0.5330	 0.1940
RG	 0.5510	 0.1910
RH	 0.5630	 0.2080
RI	 0.5530	 0.2040
RJ	 0.5290	 0.1710
RK	 0.5440	 0.1840
RL	 0.4300	 0.1270
RM	 0.4000	 0.0950
RN	 0.2240	 0.0240
SA	 0.3110	 0.0500
SB	 0.4020	 0.0910
SC	 0.4770	 0.1420
SD	 0.5050	 0.1620
SE	 0.5260	 0.1820
SF	 0.5360	 0.1950
SG	 0.5750	 0.2130
SH	 0.5460	 0.1950
SI	 0.5760	 0.2150

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Chain	Atom inclusion	Q-score
SJ	 0.5410	 0.1900
SK	 0.5410	 0.1890
SL	 0.4890	 0.1480
SM	 0.3890	 0.0930
SN	 0.3100	 0.0500
TA	 0.2420	 0.0260
TB	 0.2480	 0.0350
TC	 0.3930	 0.1030
TD	 0.4750	 0.1410
TE	 0.4970	 0.1570
TF	 0.4820	 0.1500
TG	 0.5390	 0.1870
TH	 0.5200	 0.1700
TI	 0.5330	 0.1900
TJ	 0.5120	 0.1640
TK	 0.4830	 0.1530
TL	 0.4400	 0.1250
TM	 0.3830	 0.0880
TN	 0.2970	 0.0480
UA	 0.2100	 -0.0040
UB	 0.2710	 0.0520
UC	 0.4320	 0.1230
UD	 0.4770	 0.1490
UE	 0.5080	 0.1710
UF	 0.5010	 0.1540
UG	 0.5040	 0.1720
UH	 0.4990	 0.1630
UI	 0.5220	 0.1740
UJ	 0.5190	 0.1700
UK	 0.5140	 0.1630
UL	 0.4550	 0.1250
UM	 0.4260	 0.1170
UN	 0.3080	 0.0430
VA	 0.4720	 0.1590
VB	 0.3730	 0.0890
VC	 0.5560	 0.2050
VD	 0.5360	 0.1910
VE	 0.5800	 0.2250
VF	 0.5740	 0.2240
VG	 0.5810	 0.2290
VH	 0.5700	 0.2210
VI	 0.5690	 0.2180

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Chain	Atom inclusion	Q-score
VJ	 0.5560	 0.2210
VK	 0.5160	 0.1720
VL	 0.5410	 0.1960
VM	 0.3240	 0.0640
VN	 0.4000	 0.1130
WA	 0.5190	 0.1770
WB	 0.4230	 0.1160
WC	 0.5820	 0.2320
WD	 0.5730	 0.2240
WE	 0.5930	 0.2400
WF	 0.5690	 0.2190
WG	 0.5960	 0.2460
WH	 0.5920	 0.2360
WI	 0.6030	 0.2510
WJ	 0.5710	 0.2300
WK	 0.5830	 0.2170
WL	 0.5890	 0.2370
WM	 0.3880	 0.0850
WN	 0.4660	 0.1430